MCDR Data Base

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines, IBM Raipur
3) Accompanying mine official with	1. Shri Ritesh Kaimal, HOD-Mines & Mines Manager
designation	2. Shri Ajay Pratap Singh, Sr. Manager-Geology
4) Date of Inspection	12/12/2022
5) Date of Previous Inspection	12/10/2021

I. GENERAL INFORMATION

	I. GENERAL INFORMATION			
Sl. No.	Particulars	Details		
1	Name of the Mine	Arasmeta Limestone Mine		
2	Total Lease Area (Ha) with breakup of Non-	Forest: NIL		
	forest and forest land	Non-Forest: 499.987 Ha.		
		Total Lease Area: 499.987 Ha.		
3	Mine code	38MPR06003		
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011		
5	Name of the lessee, Address, phone, email and	M/s Nuvoco Vistas Corporation Limited		
	fax number	Equinox Business Park, Tower 3, East		
		Wing, 4thFloor, LBS Road, Kurla (West),		
		Mumbai – 400 070 Phone: +91 (0) 22-67692500		
		Fax:+91 (0) 22 – 66306510		
		Email: jayakumar.krishnaswamy@nuvoco.com		
6	Village	Arasmeta		
7	Taluka/Mandal	Tehsil Akaltara,		
8	District	Janjgir Champa		
9	Pincode	495663		
10	State	Chhattisgarh		
11	Post office	Gopalnagar		
12	Nearest police station	Mulmula		
13	Nearest Railway station	Akaltara		
14	Date of Grant of Mining Lease	25/05/1979		
15	Date of Execution	First execution of Mining Lease on 31/05/1979 and		
		execution of amalgamated mining lease on 15/01/2001		
16	Date of opening of Mine	18/07/1979		
17	Date of first Renewal, if applicable and its	31/05/1999 to 30/05/2019 (20 years)		
	period & expiry	dated 15/01/2001		
18	Date of second Renewal, if applicable and its	31/05/2019 to 31/03/2030 (11 Years)		
	period & expiry	As per section 8A of MMDR Amendment Act,		
		2015, Mining Lease Period has been extended for 50		
		years. (For Captive Lease) i.e. extended up to		
		31/03/2030		
		Supplementary lease agreement for extended period has been made on 13/04/2017.		
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.		
20	Name of the Nominated Owner with Address,	Shri Jaya Kumar Krishnaswamy,		
	phone, email, fax number and date of	Nominated Owner,		
	appointment	M/s Nuvoco Vistas Corporation Limited		
		Equinox Business Park, Tower 3, East Wing, 4th Floor, LBS Road, Kurla (West),		
	1			

21		Mumbai – 400 070 Phone: +91 (0) 22- 66306510 Fax:+91 (0) 22 – 67692595 Email:jayakumar.krishnaswamy@nuvoco.com Date of Appointment: 01/11/2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Manoj Kumar Agrawal, Mine Agent, M/s Nuvoco Vistas Corporation Limited, P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh - 495663 Phone: +91 (0) 7817-233234, Fax: +91 (0) 7817-234237,234286 Email: manoj.agrawal@nuvoco.com Date of Appointment: 01/03/2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Ritesh Kaimal, Mines Manager, M/s Nuvoco Vistas Corporation Limited, P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh - 495663 Experience: +18 Years, Phone: Mobile: +91 (0) 9893019619 Email: ritesh.kaimal@nuvoco.com Date of Appointment: 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	Shri Moradhwaj Giriya, Mining Engineer, Qualification: BE in Mining Engineering, Experience: +19 Years M/s Nuvoco Vistas Corporation Limited, P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh - 495663 Phone: 9893124516 Email: moradhawaj.giriya@nuvoco.com Date of Appointment: 01/06/2020
24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Ajay Pratap Singh, Geologist, Qualification: M.Sc. & PhD in Geology, Experience: +17Years, M/s Nuvoco Vistas Corporation Limited P.O- Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh - 495663 Phone: 7898900524 Email:ajay01.singh@nuvoco.com Date of Appointment: 02/01/2012
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 &carrying out their duties as per rule 43 & 44.	Yes
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review Mining Plan and Progressive Mine Closure Plan, approved vide letter no. जांजगीर/चुप/खयो-1261/2020 Raipur dated 12/02/2021 Proposal Period: 2021-22 to 2025-26
27	Mineral(s) granted in lease	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Category 'A' Fully Mechanised
30	Captive/Non Captive	Captive

II. SCIENTIFIC MINING

[Data in respect of financial year (2021-22) or cumulative, as applicable]

Sl. No	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks	
	A. EXPLORATION:-				
1a	Backlog of Previous Year	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2021-22	Not applicable		
1b	Exploration Over Lease area for Geological Axis 1 or 2	No proposal	Nil	-	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	Phase wise exploration was carried out by different agencies in the past	
1d	Balance area to be explored to bring Geological axis 1 or 2	12 no. of boreholes were proposed in the FY 2022-23 as per approved Review of Mining Plan to cover the entire area in G1.	carried out in		
1e	Balance reserves as on 01/04/2022	Under (111): 23.092 Mill Under (211):11.20 Millio Under (331): 1.18 Millio Under (333):9.98 Millior	on Tonnes n Tonnes	As per RMP approved and AR submitted for the year 2021-22	
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2021-22. 12 no. of bore holes were proposed in the FY 2022-23 to cover the entire area in G1.			

B. Development

SN	Item	Proposals	Actual Work	Proposals
		(2021-22)	(2021-22)	(2021-22)
2a		Development proposed in three (03) pits namely Pit No. 1 ,Pit 1 Ext. and Pit No. 2 as shown in production and development plan	proposed area l n	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Separate benches proposed in OB & mineral.	_ _	Soil/OB: 01 no. Ore/Mineral: 04 nos.
2c	Stripping ratio or ore to OB Ratio (tones)	1:0.218		OB included in topsoil

2d	3 1	243000 CuM	136323.248 CuM	
	generation in m3			
2e		206881 CuM	246912.7 CuM	Interburden
	overburden/			
	interburden generation			
	in m3			
2f	General remarks of	Production & developm	nent was not carried ou	t within the proposed
	inspecting officer on	grids as per the appr	oved plans. However,	development of pit
	development of pit w.r.t.	no.1&2 observed lagg	ing far behind than p	roposal. Violation of
	type of deposit etc.	Rule 11(1) pointed out	in this regards.	

Sl. No	Item	Proposals	Actual Work	Remarks
1,0		C. EXPLOI	ΓΑΤΙΟΝ:-	
3a	Number of Pit Proposed for Production	03 no.	03 nos.	
3b	Quantity of ROM mineral production proposed	2060077 Metric Tonnes	1405979.540 Metric tonnes	
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100%	100%	
3d	Quantity of mineral reject generation	No Proposal	Nil	No generation of mineral rejects
3e	Grade of mineral reject generation and threshold value declared	N/A	Not applicable	
3f	Quantity of sub-grade mineral generation	No Proposal	Nil	
3g	Grade of sub-grade mineral generation	No Proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Blasted material from the mines is fed to the crusher.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	No such study carried	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and Blasting proposed in mineral benches.	Deep hole drilling and blasting is carried out in mineral benches as proposed.	
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height Topsoil/OB: 2.0 m to 3.5 m Ore/Mineral: 6 to 8.0 m Width: around 25-50 Meter (minimum 11 meter)	Bench height and width have not maintained as per proposal in pit-1 extension.	11(1) pointed out
3m		198.498 Ha. up to end of RMP period including	188.986 Ha. Up to end of F.Y. 2021-22	

		back filling area.	including backfilling area	
3n	Ore to OB ratio for the pit/mine during the year	1:0.218	1:0.272	Tonne:CUM
30	Total area put in use under different heads at the end of year	Total area 238.828 ha up to 2025-26	Total area 232.116 ha up to 2021-22	As reported in AR 2021-22
		Yr-2016-17: 2043985.00	Yr-2016-17: 1813006.00	Violation issued for lower production. Actual production was
	Production of ROM	Yr-2017-18: 2011985.00	Yr-2017-18: 2011532.00	within the proposed quantity.
3p	mineral during last five- year period, as	Yr-2018-19 2047019.00	Yr-2018-19 1691857.00	All units in MT
	applicable	Yr-2019-20: 2021128	Yr-2019-20: 1775537	
		Yr-2020-21: 2025664	Yr-2020-21: 1326334.41	
		Yr-2021-22 : 2060077	Yr-2021-22 :1405979.54	
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being of deep hole drilling & bla	carried out by deployment asting.	of HEMM with the help

D. SOLID WASTE MANAGEMENT - DUMPING:-

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of	Separate dumping of	Separate stack of topsoil	
	topsoil, OB & mineral	Topsoil & OB	was not maintained as	
	reject (Rule 36, 37)	proposed	proposed. Generated	
			topsoil was found	
			backfilled, mixing with	
			waste in the mined-out	
			area of pit no. 01.	
4b	Location of topsoil, OB &	In between UTM	Waste dumping being	-do-
	mineral reject dumps	Co-ordinate	carried out as	
		Soil dump Pit -1	proposed. Top soil	
		E638045 to	stacks are not	
		E638227.32	maintained as	
		N2429042.67 to	proposed.	
		N2429207.62		
		Soil Dump Pit-1		
		E638260.44 to		
		E638380.12		
		N2429108.23 to		
		N2429404.58		
		Dump pit-2		
		E639400.62 to		
		E639477.39		
		N2429325.16 to		
		2429404.48		
		e Dump pit-1		
		E638721.27 to		
		E638306.09		
		N2429090.33 to		
		N2428958.50		

4c	Number of dumps within	Within Lease Area:	Within Lease Area:	
	lease area and outside	Topsoil/OB/Waste:	Topsoil/OB/Waste:	
	lease area	03 no.	03 no.	
		Mineral Sub-grade:	Mineral Sub-	
		Nil	grade:nil	
4d	Location of dumps w.r.t.	Proposed beyond	Being done as per	
	ultimate pit limit (Rule 14)	Ultimate pit limit.	Proposal.	
4e	Number of active & alive	One dump in pit no 2	As per proposal	
	dumps	and backfilling area in	1	
		pit no 1		
4f	Number of dead dumps	02	Old dump being re-	
			handled for	
			advancement of benches	
4g	Number of dumps	-	Old dump has been	
	stabilized.		stabilized	
41	Will do Dock to 11	***	***	
4h	Whether Retaining wall or	Yes	Yes	
	garland drain all along			
	dumps are there			
4i	Length of Retaining wall or	Proposed	Actual	
	garland drain all along dump	Retaining wall	Retaining wall	
		50L*3W*2.5H	125L*2W*2.5H	
		Garland drain	Garland drain	
		575L*3W*2.5H	657L*2W*2.5H	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of	Separate stack of topsoil	is not being maintained a	as proposed. Violation
	inspecting officer on	of Rule 11(1) pointed ou		r - r - r - r - r - r - r - r - r - r -
	waste dump			
	management	retaining wall have been	•	omimic diam and
L		1	r	

Sl. No	Item	Proposals	Actual Work	Remarks
	C. S	OLID WASTE MANAGE	EMENT - BACKFILLING:-	
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Proposal for full extraction of mineral from mined out area before starting backfilling has been given in the	Being done as per proposal given in the approveddocument	
5b	Area under backfilling of mined out area	Void available for backfilling 41.525 up to end of plan period	22.05 Hectare up to 2021-22	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	topsoil for spreading	Topsoil observed mixed with waste in the back filled area.	Violation of Rule 11(1) pointed out.

		barrier		
5d	Total area fully reclaimed and	No proposal	Not applicable	
Su	rehabilitated			
	General remarks of			
5e	inspecting officer on	Backfilling/reclamation be	eing carried out as proposed.	
36	backfilling, reclamation			
	etc.			

C. Progressive Mines Closer Plan

SN	Item	C. Progressive Mines Close Proposals	Actual work	Remarks	
ба	Whether Annual report on PMCP submitted on time	To be submitted before 01st July every year	PMCP report received in time.	Annual submitted	Report
	and correctly - Rule 23.			29.06.2022	
6b	Management of worked/mined outbenches i) Area available for				
	rehabilitation (ha) ii) Afforestation done (ha)	0.7 На 1.5 На.	0.7 Ha 1.5 Ha.		
	iii) No. of saplings planted during the year iv) Cumulative no. of		5327 nos 455988 nos		
	plants v) Any other specific	By Plantation	By Plantation		
	method of rehabilitation vi) Cost incurred on watch & care during the year	-	Rs. 423738		
6с	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling(L X B X D)	0.7 Ha.	0.7 Ha		
	Void filled by waste/tailings	Waste, including topsoil 449881 cum	Waste, including topsoil 383235.91 cum		
	Afforestation on the backfilled area	1.5 ha	1.5 ha		
	iv) Rehabilitation by making water reservoir v) Any other specific means	Not Proposed.	Not applicable		
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	5000 nos. 1.5 Ha. By plantation.	5327 nos. 1.5 Ha. By plantation.		
бе	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Being carried out	All environments and environments within permissible limits	are

6f	General remarks of inspecting The lessee has carried out the PMCP activities as per the proposal.
	officer on PMCP compliance Monitoring of environmental parameters was done regularly.
	& progressive closure
	operations

Sl. No	Item	Proposals	Actual Work	Remarks		
	D. MINERAL CONSERVATION:-					
7a	i ktimi minerai <i>d</i> ishaich	Direct ROM dispatch to their captive plant	Blasted material is sent to the crusher for further sizing & dispatched to their captive cement plant			
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical		Bench wise blending as per the requirement of cement plant			
7c	Different grade of mineral sorted out at mines	N/A	N/A			
7d	Any beneficiation process at mines	No proposal	No beneficiation is done in mines except crushing	Only crushing is done, after which mineral is conveyed to plant through covered belt conveyors		
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The run of mine ore is fed	to crushers for sizing for feed	ing to cement plant.		

Sl. No	Item	Proposals	Actual Work	Remarks		
	E. ENVIRONMENT:-					
8a	Separate removal and utilization of topsoil	for spreading over the non-mineralized zone for plantation of saplings, levelling and bund formation in 7.5 mt.		Violation of Rule 11(1) pointed out.		
8b	Concurrent use or storage of topsoil	No proposal	Nil			
8c	Separate dumps for overburden, waste rock, rejects and fines	1 1	Separate dumps are maintained	Violation issued for unsystematic use of topsoil against the proposal under Rule 11(1) of MCDR, 2017		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling area proposed	Done as proposed			
8e	Phased restoration, reclamation and rehabilitation of lands	Proposal for reclamation in 0.7 ha. area yearly has been	Done as proposed			

	affected by mining operations (Pits, dumps etc)	given in the approved document in the mined out area.		
8f	Baseline information on existence of plantation & additional plantation done	Plantation Proposed: WML: 500 saplings in 2021-22	Within lease area-5327 nos. saplings	As per the AR 2021- 22
8g	Survival rate	Not specified	Approx. 81%	
8h	Water sprinkling on roads to control airborne dust	given in the approved document for water sprinkling on roads	Continuous water sprinkling done on haul roads to suppress the dust generated Water sprinkling by 25 KL and 9KL water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	carried out afforestation & environmental protection measures as per the		

F. Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
711	Status of submission of Monthly and Annual returns	M.R. Submitted upto – A.R. submitted upto- F		
S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Moradhwaj Giriya Geologist: Ajay Pratap Singh Manager: Ritesh Kaimal	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total area 232.116 ha up to 2021-22	Appears to be correct	
9d	Scrutiny of Annual return on Afforestation	Within lease area: 5327 @ 81% survival rate	1 1	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No generation of mineral rejects reported.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening stock- Nil, Production- 1405979.00 tonnes, Closing stock- Nil	Appears to be correct	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price & cost of production- Rs 323.92/Ton Sale Value: Nil	Limestone form the mine is used for captive consumption in cement plant	
9i	Scrutiny of Annual return on fixed assets	Rs 249360293/- including land,	Appears to be correct.	

		machinery & building		
9k	Scrutiny of Annual	Back hoe (4 cum & 9	Observed deployed	
	Return on mining	cum) - 02, Shovel-4		
	machineries	com-03, dumper		
		(31.75 tonne) - 08,		
		Water tanker-		
		20000ltr-01, Rock		
		frill-115 mm-20		
		nos., Dozer (400 hp)-		
		02, Motor grader-)		
		(173 hp)-01		

III. Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

Date of last inspection	Violation pointed out	Compliance reported
12/10/2021	Rule 11(1) and 31(4) of MCDR,2017	Yes, all complied.

Violation of Rule 11(1) of MCDR 2017 is pointed out during current inspection.

Date:

प्रेम प्रकाश / Prem Prakash क्षेत्रीय खान ननयंत्रक / Regional Controller of Mines भारतीय खान ब्यूरो / Indian Bureau of Mines