MCDR INSPECTION REPORT

100	1.0 GENERAL			
SN	Particulars	Details		
1	Name of inspecting officer &	Rajesh Kumar Das		
•	designation	Sr Assistant Controller of Mines		
2	Accompanying Mine Official	Ritesh Kaimal		
2	with Designation	DGM (mines)		
3	Date of inspection	16/02/2021		
4	Name of the Mine	Chilhati Limestone Mine		
5	Total Lease Area (Ha) with	1085.365 Hectare		
5	breakup of Non-forest and forest	Private Land-996.956 ha		
	land	Government Land-88.409ha		
		Forest Land -Nil		
6	Mine Code	38CHG02002		
7	IBM Registration Number under	IBM/378/2011		
	rule 45 of MCDR, 1988			
8	Name of the lessee, Address,	Nuvoco Vistas Corporation Ltd		
	phone, email and fax number	Arasmeta Cement Plant, Post office Gopalnagar, Tehsil-		
		Akaltra, ,District- Janjgir,-Champa ,Chhattisgarh, Pin:		
		465663,Phone : 9893019619		
		ritesh.kaimal@nuvoco.com		
9	Village	Chilhati		
10	Taluka / Mandal / District	Pachpedi /Masturi /Bilaspur		
11	State	Chhattisgarh		
12	Post office & PIN	495551		
13	Nearest police station	Pachpedi		
14	Nearest Railway station	Bilaspur		
15	Date of Grant of Mining Lease	13/07/2015		
16	Date of Execution	Mining Lease Execution on 22/12/2015 for 50 years from		
		15/12/2015 to 14/12/2065		
17	Date of opening of Mine	19/04/2017		
18	Date of first Renewal, if	NA		
	applicable and its period &			
	expiry			
19	Date of second Renewal, if	NA		
	applicable and its period &			
20	expiry			
20	Date of submission of renewal	NA		
	application if Mining Operations			
	are continuing under deemed extension			
21	Name of the Nominated Owner	Shri Jayakumar Krishnaswamy		
<i>L</i> 1	with Address, phone, email, fax	Equinox Business Park, Tower -3, East Wing, 4th Floor		
	number and date of appointment	Off Bandra –Kurla Complex, LBS RoadKurla –West		
	number and date of appointment	Mumbai-400070		
		Tel 022-66306511, Fax- 022-66306510		
		jayakumar.krishnaswamy@nuvoco.com		
		Date of appointment : 01.11.2018		
22	Name of the Mine Agent with	Shri Raghavendrarao Jahagirdar		
	Address, phone, email, fax	Arasmeta Cement Plant, Post office Gopalnagar, Tehsil-		
	number and date of appointment	Akaltra, ,District- Janjgir,-Champa ,Chhattisgarh, Pin:		
	11	465663		
		Phone : 8003090425		
		raghavendrarao.jahagirdar@nuvoco.com		
		Date of appointment : 01/07/2020		

23	Name of the Mines Manager	Shri Narayan Nahak
	with Address, phone, email, fax	Arasmeta Cement Plant, Post office Gopalnagar, Tehsil-
	number and date of appointment	Akaltra, ,District- Janjgir,-Champa ,Chhattisgarh, Pin:
	in mines	465663,Phone : 9893019615, <u>narayan.nahak@nuvoco.com</u>
		Date of Appointment 01/08/2020

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24	Name of the Mining Engineer,	Shri Narayan Nahak
	Qualification and total experience	AMIE (MINING), 24 years
	with Address, phone, email, fax	Arasmeta Cement Plant , Post office Gopalnagar, Tehsil-
	number and date of appointment in	Akaltra, ,District- Janjgir,-Champa ,Chhattisgarh, Pin:
	mine	465663,Phone : 9893019615
		narayan.nahak@nuvoco.com
		Date of Appointment 01/08/2020
25	Whether Geologist and Mining	Shri Shambhu Pal (Geologist)
	Engineer appointed in mines	M.Tech In Applied Geology, Exp 11 years
	satisfy the rule 55 & carrying out	Date of Appointment 17/11/2020
	their duties as per rule 56 & 57.	
26	Date of Approval of Mining	BLS/LST/1221/2019/RAIPUR/545 dt 11.12.2019 For
	Plan/Modified Mining Plan with	Period 2020-21 to 2024-25.
	five-year period and specific	
	condition in approval letter, if any.	
27	Date of Approval of Scheme of	Review of Mining Plan approved letter
	Mining/Modified Scheme of	no.BLS/LST/MPLN-1221/RPR dated 11/12/2019 for
	Mining with five-year period and	period 2020-21 to 2024-25.
	specific condition in approval	
	letter, if any.	
28	Mineral(s) granted in lease and	Limestone
	proved for mining	
29	Method of Mining(Opencast,	Opencast
	Underground)	
30	Category (Fully Mechanised,	Fully Mechanised
	Others or Manual)	
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	4 MTPA Limestone
33	Status of Financial Assurance as	Amount of Financial Assurance Rs. 19746000 submitted
	per rule 27 of MCDR, 2017	the financial assurance -As per rule 27 of MCDR 2017,
		bank guarantee no I3940100012108 dated 18-12-2019
		vaild upto 31/03/2025.
		Vanu upto 51/05/2025.
L	l	<u> </u>

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. – **<u>1.0 Exploration</u>**

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Proposal 79 Bore holes	Bore hole no 33 and meterage 948 meter	
1b	Exploration over lease area for Geological axis 1 or 2.	The proposal is given broadly to cover entire lease area mineralise zone in G1	Broadly 90% mineralised area is covered in G1 & G2 category	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	GEM consultant Bilas 1873138/-	our cost Rs	

1d	Balance area to be explored to bring Geological axis in 1 or 2	The proposal is given broadly to cover entire lease area mineralise zone in G1	Broadly 90% mineralised area is covered in G1 & G2 category	
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Under (122): 109.49 Million Tonnes Under (222): 340.423 Million Tonnes	Under (122): 119.53 Million Under (222): 340.423 Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Reserve at the starting 120.07 million tonnes five years period in Mill but actual production 0. broadly 90% of lease ar	and Production prop lion Tonnes is 10.58 n 5393 million tonnes. 4	osed for first nillion tonnes As mentioned

2.0 Development

2.01	<u>Jevelopment</u>			
SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.	Local Co-ordinate	Broadly within	
	lease area (Range in	E 21793.302 to E	proposed area	
	UTM/Local Coordinate/Plot	22475.31 and N		
	No./Location)	11980.524 and		
		11472.78		
2b	Separate benches in topsoil,	Separate bench of	As per proposal	
	overburden and mineral (Rule	Limestone and soil		
	13)			
2c	Stripping ratio or ore to OB	1:0.13	1:0.36	
	ratio			
2d	Quantity of topsoil generation	523185	158287	
	in m3			
2e	Quantity of overburden	NIL	Nil	
	generation in tonnes			
2f	General remarks of inspecting	The development and	d production are less w.r.t.	proposal
	officer on development of pit	given.		
	w.r.t. type of deposit etc.			
<u>3.0 I</u>	Exploitation			

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for	Single pit	Single pit	
	production			
3b	Quantity of ROM mineral	3992813	289563	
	production proposed			
3c	Recovery of salable/usable	100%	100%	ROM
	mineral from ROM production			dispatch
				from mine
3d	Quantity of mineral reject	No mineral reject	Not applicable.	
	generation	will be generated		
		during MMP		
		Period.		
3e	Grade of mineral reject	Not mentioned in	Not applicable.	
	generation and threshold value	the approved		
	declared	document		
3f	Quantity of sub-grade mineral	No mineral sub-	Not applicable.	
	generation	grade will be		
		Generated during		

		MMP Period.	
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document	Not applicable.
3h	Manual / Mechanised method adopted for segregating from ROM	Not applicable.	Not applicable.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study has been proposed in the approved document during MMP period.	Not applicable.
3ј	Provision of drilling & blasting in mineral benches	Yes	Being done per proposal.
3k	Provision of mining machineries in mineral benches	Yes	Being done per proposal.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Soil 2-3 meter, Limestone 8 meter	Soil avg 2-3 meter, Limestone 5-7 meter
3m	Total area covered under excavation/pits	28.32 Ha	6.211 Ha
3n	Ore to OB ratio for the pit/mine during the year	1:0.13	1:0.55
30	Total area put in use under different heads at the end of year	Pit- Waste/reject- Others-	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: 656250 Metric Tonnes Yr- 2016-17: 1378125 Metric Tonnes Yr- 2017-18: 1715625 Metric Tonnes Yr- 2018-19: 2842188 Metric Tonnes Yr- 2019-20: 3992813 Metric Tonnes	Yr- 2015-16: 0.00 Metric Tonnes Yr- 2016-17: 0.00 Metric Tonnes Yr- 2017-18: 38539 Metric Tonnes Yr- 2018-19: 211201 Metric Tonnes Yr- 2019-20: 289563.360 Metric Tonnes
3q	General remarks of inspecting officer on method of mining etc.	The method of mining and broadly as per pro-	is by opencast method using HEMM posal.

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil,	1	1	
	OB & mineral reject (Rule			
	36, 37)			
4b	Location of topsoil, OB	Local co-ordinate	Broadly within	
	dumps (Range in UTM/Local	E21879.41 to	proposed area	
	Coordinate/Plot	E22137.42 and		

	No./Location)	N12621.72 to N12332.20	
4c	Number of dumps within lease area and outside lease area	With in lease area 1	With in lease area 1
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Local co-ordinate E21879.41 to E22137.42 and N12621.72 to N12332.20	Broadly within proposed area
4e	Number of active & alive dumps	1	1
4f	Number of dead dumps	Nil	Nil
4g	Number of dumps stabilised	1	1
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		150mX2mX3m 312mX2mX3m
4j	Number of settling ponds	1	1
4k	Specific commends of inspecting officer on waste dump management	Broadly as proposal	

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction	No proposal	NA	
	of mineral from mined out area			
	before starting backfilling			
5b	Area under backfilling of	No proposal	NA	
	mined out area			
5c	Concurrent use of topsoil for	No proposal	NA	
	restoration or rehabilitation of			
	mined out area (Rule 36)			
5d	Total area fully reclaimed &	No proposal	Not applicable.	
	rehabilitated			
5e	General remarks of inspecting	Area not matured for ba	ckfilling.	
	officer on backfilling,			
	reclamation etc			
<u>6.0</u>	Progressive Mine Closure Plan			

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Submitted on time.	The given Information has been cross verified.	

	-			1
6b	Management of	Not mentioned in the	Being done as per	
	worked/mined out benches	approved	proposal.	
	i) Area available for	Document		
	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			
6c	Compliance on reclamation	Not mentioned in the	Being done as per	
	and rehabilitation by	approved	proposal.	
	backfilling	document	1 1	
	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			
6d	Compliance of Rehabilitation	By Plantation 3750 nos	Plantation 3800	
ou	of waste land within lease	By Fiantation 5750 nos	1 Iditidition 5000	
	i) Afforestation			
	ii) Area rehabilitated (ha)			
	iii) Method of rehabilitation			
6e	Compliance of	Proposal has been in th	e Being done as per	
	Environmental monitoring	approved document fo	U 1	
	(core zone & buffer zone)	regular monitoring of	1 I	
		environmental parameter		
		at core and buffer zone.	5	
6f	General remarks of	Broadly as per proposal		1
-	inspecting officer on PMCP			
	compliance & progressive			
7.0 N	Vineral Conservation			
SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or	ROM Mineral will	Being done as per	
	grade-wise sorting within	directly be dispatched	proposal.	
	lease area	from the lease area to		
		the captive plant		
7b	Method of grade-wise	No sorting proposed	NA	
	mineral sorting i.e. manual or	within lease		
	mechanical			
7c	Different grade of mineral	NA	NA	
	sorted out at mines			
7d	Any beneficiation process at	No beneficiation	NA	
	mines	process has been		
		proposed in the		
		approved plan		
		during plan period		
		during plan period		

7e	General remarks of	ROM is directly dispatch to plant as there is no crushing and
	inspecting officer on Mineral	screening unit in lease area.
	conservation & beneficiation	
	issues	

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Proposal has been given in the approved for separate removal of soil and its utilization	Being done as per proposal.	as
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for concurrent use of topsoil.	Being done as per proposal.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of Topsoil; have been proposed in the approved document.	Being done as per proposal and mostly used for afforestation.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	Being done as per proposal.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal has not been given in the approved document for reclamation during plan period	Being done as per proposal.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2019-20: 3750 nos Saplings will be planted.	2019-20 : 3800 nos.saplings planted	
8g	Survival rate	Not mentioned in the approved document	70%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads through water tanker	Being done per proposal.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The lessee is taking care of all environmental preventive measures as per statute i.e Air, Water, Noise, ground vibration monitoring. The plantation is done and dust suppression water sprinkling is done on regular basis. There is no adverse impact observed during mine visit on aesthetic beauty in and around mines area.		
<u>9.0 (</u>	Compliance of Rule 45	COMMENTS		

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S.	Item	COMMENTS	Remarks
N.			
	Status of submission of Monthly and Annual	M.R. Submitted upto – Jan-2021 A.R. submitted upto- 2019-20 (FY2019-20)	
	returns		

S.	Item	Details GIVEN in	Observation of	Remarks
N.		A.R.	I/Officer	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Manager: Shri Sanjay Dwivedi	Mining Engineer& Manager: Shri Naryan Nahak Geologist – Shambhu pal	New appointmen t
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working 6.211 Ha	Current working 6.211 Ha	
9d	Scrutiny of Annual return on Afforestation	With in lease area 3800 nos	With in lease area 3800 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	Na	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: ROM: NIL Graded Ore: NIL	Closing Stock: ROM: NIL Graded Ore: NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price & Cost of Production: 315.33 Per Metric Tonne	Ex-Mine Price & Cost of Production: 315.33 Per Metric Tonne	
9i	Scrutiny of Annual return on fixed assets	Rs. 766303360/-		
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns		

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

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

R N Mishra, Sr. Mining Geologist, Indian Bureau of Mines, Raipur 13/09/2019 and the violation of Rule 55 pointed out taken compliance.

Details of the Violations Pointed-out during Inspections:

Rule	Nature of Violation observed		
	Mining operations should have been undertaken in accordance with the approved Mining Plan/Scheme of Mining.		
11(1)	The Mining Plan was approved vide letter no.राय/चूना/खयो-988/नाग/2015/38-रायपुर dated 05.08.2016 and following deviation was observed during inspection		
	 It was proposed to to drill 79 holes in 2018-19 but only 33 boreholes drilled. It was proposed to produce 3992813 MT of limestone for the year 2018-19 but only 289563 MT produce which is 7% of the proposal. 		
37(2)	The dumps shall be properly secured to prevent escape of material there from in harmful quantities which may of degradation of environment and to prevent causation of floods. It was observed that there is no proper terracing the OB/waste dump is near to lease boundary and some place extended in 7.5 meter safety barrier zone but stip proper retaining wall is constructed nor any control measures taken for dump stability.		