MCDR INSPECTION REPORT

1.0 GENERAL

<u></u>	GENERAL	
SN	Particulars	Details
1	Name of inspecting office &	S. Kartikeya, Jr. Mining Geologist,
	designation	Indian Bureau of Mines, Raipur
2	Accompanying Mine Official	Shri Ritesh Kaimal, HOD (Mines)
	with Designation	Shri Bhajan Singh Rawat, Manager (Mines)
3	Date of inspection	29/12/2020
4	Name of the Mine	Kirari Limestone Mine
5	Total Lease Area (Ha) with	Forest Land: NIL
	breakup of Non-forest and	Non-Forest Land: 167.046
	forest land	Total Lease Area: 167.046 Ha.
6	Mine Code	38CHG06001
7	IBM Registration Number	IBM/378/2011
	under rule 45 of MCDR, 1988	
8	Name of the lessee, Address,	M/s Nuvoco Vistas Corporation Limited
	phone, email and fax number	(Formerly Lafarge India Limited)
		Equinox Business Park, Tower 3, East Wing,
		4th Floor, LBS Road, Kurla (West),
		Mumbai (Maharashtra) – 400 070
		Phone: +91 (0) 22- 67692500
		Fax: +91 (0) 22 – 66306510
		Email: jayakumar.krishnaswamy@nuvoco.in
9	Village	Kirari and Chorbhatti
10	Taluka / Mandal / District	Tehsil: Akaltara, District: Janjgir Champa
11	State	Chhattisgarh
12	Post office & PIN	Dev Kirari, Pin Code: 495663
13	Nearest police station	Mulmula
14	Nearest Railway station	Akaltara
15	Date of Grant of Mining	19/04/2000
	Lease	26/08/2000 to 25/08/2020 (20 Years)
16	Date of Execution	26/08/2020
17	Date of opening of Mine	13/10/2006
18	Date of first Renewal, if	AS per Section 8A of MMDR Amendment Act, 2015,
10	applicable and its period &	Mining Lease has been extended for 50 years.
	expiry	i.e. from 26/08/2020 to 25/08/2050 (30 Years)
	expiry	
		Supplementary Mining Lease agreement has been made on 13/04/2017
		Initially Mining Lease has been granted to M/s Raymond Limited, Ratnagiri (Maharashtra) on 19/04/2000
		Later on Mining Lease has been transferred from M/s Raymond Limited, Ratnagiri (Maharashtra) to M/s Lafarge India Limited, Mumbai (Maharashtra) on 17/01/2001.
		Thereafter, Addendum of Mining Lease Agreement from M/s Lafarge India Limited, Mumbai (Maharashtra) to M/s Nuvoco Vistas Corporation Limited has been made on 30/11/2017

10	Data of accord Denowal if	Neteralizable		
19	Date of second Renewal, if	Not applicable.		
	applicable and its period &			
20	expiry	Natangliaghla		
20	Date of submission of	Not applicable.		
	renewal application if Mining			
	Operations are continuing			
01	under deemed extension	Ohri Java Kuran Krisha ayun Mananian Dirastan		
21	Name of the Nominated	Shri Jaya Kumar Krishnaswamy, Managing Director		
	Owner with Address, phone,	M/s Nuvoco Vistas Corporation Limited		
	email, fax number and date	Equinox Business Park, Tower 3, East Wing,		
	of appointment	4th Floor, LBS Road, Kurla (West),		
		Mumbai – 400 070		
		Phone: +91 (0) 22- 66306510		
		Fax: +91 (0) 22 – 67692595		
		Email: jayakumar.krishnaswamy@nuvoco.in		
00		Date of Appointment: 01/11/2018		
22	Name of the Mine Agent with	Shri Raghavendra Rao Jahagirdar, Sr. Vice		
	Address, phone, email, fax	President & Plant Head		
	number and date of	Arasmeta Cement Plant		
	appointment	M/s Nuvoco Vistas Corporation Limited		
		(Formerly Lafarge India Limited),		
		P.O Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh - 495663		
		Phone: +91 (0) 7817 - 233234,		
		Fax: +91 (0) 7817 – 234237 / 234286		
		Email: raghavendrarao.jahagirdar@nuvoco.in		
		Date of Appointment: 01/07/2020		
23	Name of the Mines Manager	Shri Bhajan Singh Rawat, Manager		
20	with Address, phone, email,	Arasmeta Cement Plant		
	fax number and date of	M/s Nuvoco Vistas Corporation Limited,		
	appointment in mines	(Formerly Lafarge India Limited),		
		P.O Gopalnagar, Tehsil- Akaltra,		
		District- Janjgir Champa, Chhattisgarh,		
		Phone: +91 (0) 7817 - 233234,		
		Fax: +91 (0) 7817 – 234237 / 234286		
		Mobile: +91 (0) 9981511598		
		Email: bhajan.rawat@nuvoco.in		
		Date of Appointment: 01/06/2016		
24	Name of the Mining	Shri Ravikant Yadav, Dy. Manager		
	Engineer, Qualification and	Qualification: B.E. (Mining)		
	total experience with	Experience: +12 Years		
	Address, phone, email, fax	Arasmeta Cement Plant		
	number and date of	M/s Nuvoco Vistas Corporation Limited,		
	appointment in mine	(Formerly Lafarge India Limited),		
		P.O Gopalnagar, Tehsil- Akaltra,		
		District- Janjgir Champa, Chhattisgarh,		
1		Phone: +91 (0) 7817 - 233234,		
1		Fax: +91 (0) 7817 – 234237 / 234286		
1		Mobile: +91 (0) 7024143400		
1		Email: ravikant.yadav@nuvoco.in		
05	Whathar Caslagist and	Date of Appointment: 01/06/2016		
25	Whether Geologist and	Yes, Appointed.		
	Mining Engineer appointed in	Shri Alok Dwivedi, AGM (Geology)		
	mines satisfy the rule 55 &	Qualification: M.Tech. (Applied Geology)		
	carrying out their duties as	Total Experience: +24 years Arasmeta Cement Plant		
	per rule 56 & 57.	Alasinela Genieni Pidill		

 (Formerly Lafarge India Limited), P. O Gopalnagar, Tehsil-Akaltra, District-Jangir Champa, Chhattisgarh, Phone: +91 (0) 7817 - 23234, Fax: +91 (0) 7817 - 23234, Fax: +91 (0) 7817 - 23237 / 234286 Mobile: +91 (0) 9980431038 Email: alok.dwivedi@nuvco.in Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. Date of Approval of Scheme of Mining/Modified Scheme of Mining With five-year period and specific condition in approval letter, if any. Mineral(s) granted in lease and proved for mining 29 Method of Mining(Opencast, Underground) Category (Fully Mechanised, Others or Manual) Status of Financial Assurance as per rule 27 of MCDR, 2017 Status of Financial Assurance as per rule 27 of MCDR, 2017 Status of Financial Assurance as per rule 27 of MCDR, 2017 Status of Financial Assurance as per rule 27 of MCDR, 2017 Status of Financial Assurance as per rule 27 of MCDR, 2017 Status of Financial Assurance as per rule 27 of MCDR, 2017 Status of Financial Assurance as per rule			
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31Captive/Non CaptiveCaptive32Existing EC Limit and validityLimestone 0.36 Million Tonnes Per Annum obtained from the Ministry of Environment and Forest, Government of India vide letter no. J-11015/23/2002- IA.II(M) New Delhi dated 09/12/2003 Validity: 25/08/2050 Note: Out of 167.048 Ha. area, 108.78 Ha. area has been proposed for mining.33Status of Financial Assurance as per rule 27 of MCDR, 2017Rs. 1,18,37,700/- submitted in the form of Bank Guarantee (1) Rs. 9,86,475/- vide Bank Guarantee No. 1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021	30		Category A Fully Mechanised
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 from the Ministry of Environment and Forest, Government of India vide letter no. J-11015/23/2002- IA.II(M) New Delhi dated 09/12/2003 Validity: 25/08/2050 Note: Out of 167.048 Ha. area, 108.78 Ha. area has been proposed for mining. 33 Status of Financial Assurance as per rule 27 of MCDR, 2017 Rs. 1,18,37,700/- submitted in the form of Bank Guarantee (1) Rs. 9,86,475/- vide Bank Guarantee No. 1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021 	-		
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Validitý: 25/08/2050 Note: Out of 167.048 Ha. area, 108.78 Ha. area has been proposed for mining.33Status of Financial Assurance as per rule 27 of MCDR, 2017Rs. 1,18,37,700/- submitted in the form of Bank Guarantee (1) Rs. 9,86,475/- vide Bank Guarantee No. 1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021	1		
Note: Out of 167.048 Ha. area, 108.78 Ha. area has been proposed for mining.33Status of Financial Assurance as per rule 27 of MCDR, 2017Rs. 1,18,37,700/- submitted in the form of Bank Guarantee(1)Rs. 9,86,475/- vide Bank Guarantee No. 1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021(2)Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021			
33Status of Financial Assurance as per rule 27 of MCDR, 2017Rs. 1,18,37,700/- submitted in the form of Bank Guarantee (1) Rs. 9,86,475/- vide Bank Guarantee No. 1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021	1		•
33Status of Financial Assurance as per rule 27 of MCDR, 2017Rs. 1,18,37,700/- submitted in the form of Bank Guarantee (1) Rs. 9,86,475/- vide Bank Guarantee No. 1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021	1		
Assurance as per rule 27 of MCDR, 2017 Guarantee (1) Rs. 9,86,475/- vide Bank Guarantee No. 1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021	33	Status of Financial	
MCDR, 2017 (1) Rs. 9,86,475/- vide Bank Guarantee No. 1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021			
1637616BG0000103 dated 09/02/2016 and Valid up to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021		-	
to 31/03/2021 Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021	1		
Validity: 01/04/2016 to 31/03/2021 (2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021			•
(2) Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021	1		
1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021			-
to 31/03/2021			
Validity: 22/03/2017 to 31/03/2021	1		•
			Validity: 22/03/2017 to 31/03/2021

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

1.0 Exploration

			1	
SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration has been proposed in the approved document during F.Y. 2019-20.	Not applicable. As per the last approved document the entire lease area has already been explored in G1 level of exploration.	_
1b	Exploration over lease area for Geological axis 1 or 2.	-do-	-do-	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned in the approved document.	Not applicable	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration has been proposed in the approved document during F.Y. 2019-20.	Not applicable. As per the last approved document the entire lease area has already been explored in G1 level of exploration.	-
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Under (111): 25.787 Million Tonnes Under (121): 8.75 Million Tonnes Under (211): 9.278 Million Tonnes Under (221): 13.832 Million Tonnes	8.75 Million Tonnes Under (211):	-
1f	General remarks of inspecting officer on geology, exploration etc.	Total 11 nos. of cor depth of 462.98 met 2016-17	e boreholes with	

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development	2019-20: In	2019-20: In between	
	w.r.t. lease area (Range in	between UTM co-	UTM co-ordinates	
	UTM/Local Coordinate/Plot	ordinates	N2429615 to	
	No./Location)	N2429618 to	N2430030 and	
		N2430045 and	E650300 to	
		E650305 to	E650720	
		E650735		
2b	Separate benches in	Proposal has	Separate benching	
	topsoil, overburden and	been given in the	of Topsoil,	

				1
	mineral (Rule 13)	approved	Overburden and	
		document for	Mineral/Ore have	
		separate	been developed and	
		benching on	maintained.	
		Topsoil,		
		Overburden and	Topsoil/OB: 01 no.	
		Mineral/Ore.		
			Mineral/Ore: 04	
		Topsoil/OB: 01	nos.	
		no.		
		Mineral/Ore: 04		
		nos.		
2c	Stripping ratio or ore to OB	1:0.11	1 : 0.09	-
	ratio			
2d	Quantity of topsoil	2019-20:	2019-20: 7214.00	-
	generation in m3	17725.00 CuM	CuM	
2e	Quantity of overburden	2019-20:	2019-20: 17554.00	-
	generation in m3	21700.00 CuM	CuM	
2f	General remarks of	21700.00 000	Call	
21		NIL		
	inspecting officer on			
	development of pit w.r.t.			
	type of deposit etc.			

3.0 Exploitation

				-
SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01 no.	01 no.	-
3b	Quantity of ROM mineral production proposed	2019-20: 360000.00 Metric Tonne	2019-20: 279353.270 Metric Tonne	-
3c	Recovery of salable/usable mineral from ROM production	87 %	100 % The entire produced limestone with above 34% CaO has been consumed in the Captive Plant.	-
3d	Quantity of mineral reject generation	2019-20: 21700.00 CuM or 54249.00 Metric Tonnes (13% from the ROM) of Mineral Reject/Sub-grade Mineral will be generated.	In correct nomenclature has been done in the approved document. The mentioned quantity of 21700.00 CuM or 54249.00 Metric Tonnes is waste rock (13% from the ROM). During F.Y. 2019-20 17554.00 CuM of waste/overburden has been generated.	-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document.	Not applicable.	-
3f	Quantity of sub-grade mineral generation	No Mineral Sub- grade will be	Not applicable.	-

				I
		generated during the period of		
		Modified Mining Plan.		
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document.	Not applicable.	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal has been given in the approved document for processing of ROM in the mine. The mined our ROM will directly dispatch to the Captive Plant.	0	-
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 the period of Modified Mining Plan.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Dia.: 102 mm to 115 mm Depth: 6.0 m to 8.0 m Spacing: 4.50 m to 5.0 m Burden: 2.50 m to 3.0 m	5.0 m	-
3k	Provision of mining machineries in mineral benches	 Drilling Machine ICM 260 02 nos. with 115 mm diameter capacity Dozer D-80 / D 155 of BEML 01 no. Hydraulic Excavators 02 nos. with 2.50 CuM to 3.0 CuM bucket capacity Dumpers/Tipp ers 20 nos. with 20.0 - 30.0 Metric Tonne capacity Explosive Van 01 no. 	 Hydraulic Excavator / Back Hoe 02 nos. with 0.9 CuM to 1.90 CuM bucket size Dumpers 16 nos. with 20.0 Metric Tonne capacity Dozer 01 no. with 320 HP capacity Rock Drill Machine 01 no. with 110.0 mm diameter capacity Water Tanker 01 no. with 9000 Liters capacity 	

		 Water Tanker 02 nos. Diesel / Electric Pumps 02 nos. with 10.0 HP capacity Rock Breaker 01 no. 		
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height: OB/Topsoil: 4.0 m to 5.0 m Mineral/Ore: 7.0 m Width: OB/Topsoil: 20.0 m to 35.0 m Mineral/Ore: 20.0 m to 35.0 m	Height: OB/Topsoil: 4.0 m to 5.0 m Mineral/Ore: 7.0 m Width: OB/Topsoil: 20.0 m to 35.0 m Mineral/Ore: 20.0 m to 35.0 m	-
3m	Total area covered under excavation/pits	14.83 Ha. up to end of F.Y. 2020- 21	13.339 Ha. up to end of F.Y. 2019-20	
3n	Ore to OB ratio for the pit/mine during the year	1:0.11	1 : 0.09	-
30	Total area put in use under different heads at the end of year	Pit- 14.83 Ha. Waste/reject- 15.002 Ha. Others- 9.627 Ha. up to end of F.Y. 2020-21	Pit- 13.339 Ha. Waste/reject- 8.076 Ha. Others- 7.72 Ha. up to end of F.Y. 2019-20	6.40 Ha. area has been converted into green belt.
Зр	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: 720000.00 Metric Tonnes Yr- 2016-17: 360000.00 Metric Tonnes Yr- 2017-18: 360000.00 360000.00 Metric Tonnes Yr- 2018-19: 360000.00 360000.00 Metric Tonnes Yr- 2018-19: 360000.00 360000.00 Metric Tonnes Yr- 2019-20: 360000.00	Yr- 2015-16: 275269.000 Metric Tonnes Yr- 2016-17: 296903.000 Metric Tonnes Yr- 2017-18: 279409.000 Metric Tonnes Yr- 2018-19: 225749.070 Metric Tonnes Yr- 2018-19: 225749.070 Metric Tonnes Yr- 2019-20: 279353.270 Metric	-
		Tonnes	Tonnes	

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of		Separate dumping of	-
	topsoil, OB & mineral	of Topsoil,	Topsoil,	

	reject (Rule 36, 37)	Overburden/Waste	Overburden/Waste	
		and the	and the Minerals/ore	
		Minerals/ore have	is being done within	
		been proposed in	lease area.	
		the approved		
		document in		
		earmarked		
		locations within the		
		lease area.		
4b	Location of topsoil, OB &	F.Y. 2019-20:	F.Y. 2019-20:	-
	mineral reject dumps			
	(Range in UTM/Local	Topsoil: In	Topsoil: In between	
	Coordinate/Plot	between UTM co-	UTM co-ordinates	
	No./Location)	ordinates	N2429617 to	
	,	N2429565 to	N2429699 and	
		N2429670 and	E650913 to	
		E650965 to	E651006	
		E651160		
		·····	Waste/Overburden:	
		Waste/Overburde	In between UTM co-	
		n : In between UTM	ordinates	
		co-ordinates	N2430249 to	
		N2430050 to		
		N2430255 and	E650558 to	
		E650528 to	E650745	
		E650715	2000740	
4c	Number of dumps within	F.Y. 2019-20:	F.Y. 2019-20:	
-0	lease area and outside	Topsoil: 01 no.	Topsoil: 01 no.	-
		Waste/Overburde	Waste/Overburden:	
1				
	lease area			
4d		n: 01 no.	01 no.	
4d	Location of dumps w.r.t.	n: 01 no. Proposed beyond	01 no. All the dumps are	-
4d		n: 01 no.	01 no. All the dumps are situated beyond	-
	Location of dumps w.r.t. ultimate pit limit (Rule 14)	n: 01 no. Proposed beyond ultimate pit limit.	01 no. All the dumps are situated beyond ultimate pit limit.	-
4d 4e	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive	n: 01 no. Proposed beyond	01 no. All the dumps are situated beyond	-
4e	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps	n: 01 no. Proposed beyond ultimate pit limit. 02 nos.	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos.	-
4e 4f	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos.	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos.	-
4e	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps	n: 01 no. Proposed beyond ultimate pit limit. 02 nos.	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos.	- - - -
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos.	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos.	
4e 4f	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and	- - - - -
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain	- - - - -
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	- - - - -
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and the temporary soil	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	- - - -
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and the temporary soil dump to collect the	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and the temporary soil	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and the temporary soil dump to collect the	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	- - - - -
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and the temporary soil dump to collect the wash offs solids	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	-
4e 4f 4g	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and the temporary soil dump to collect the wash offs solids during the rainy	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps	- - - - -
4e 4f 4g 4h	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along dumps are there	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and the temporary soil dump to collect the wash offs solids during the rainy season.	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps and soil dumps.	-
4e 4f 4g 4h	Location of dumps w.r.t. ultimate pit limit (Rule 14) Number of active & alive dumps Number of dead dumps Number of dumps stabilised Whether Retaining wall or garland drain all along dumps are there	n: 01 no. Proposed beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Proposal has been given in the approved document for construction of Retaining Wall and Garland Drain along the periphery of the temporary waste dump and the temporary soil dump to collect the wash offs solids during the rainy season. Lengths of the	01 no. All the dumps are situated beyond ultimate pit limit. 02 nos. 03 nos. 03 nos. Retaining wall and the garland drain have been constructed around the waste dumps and soil dumps.	- - - - -

		have not been mentioned in the approved document.	Garland Drain: Approx 312.0 meters	
4j	Number of settling ponds	Proposal has been given in the approved document for construction of 01 no. of settling pond.	pond has been constructed in between UTM co- ordinate N2429600	-
4k	Specific comments of inspecting officer	NIL	-	

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposal has been given in the approved document for full extraction of the minerals/ore from the lease before start backfilling. During the period of Modified Mining Plan no backfilling has been proposed.	not been mined out	_
5b	Area under backfilling of mined out area	No proposal for backfilling has been given in the approved document,	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposal has been given in the approved document for separate removal and stacking of 17725.00 CuM of Topsoil generated during F.Y. 2019-20 in between UTM co- ordinates N2429565 to N2429670 and E650965 to E651160 and concurrent use of Topsoil for purpose of plantation over the waste dumps.	20, 7214.00 CuM of generated Topsoil has been stacked in between UTM co-ordinates N2429617 to N2429699 and E650913 to E651006 and the certain quantity has been utilized for the purpose of plantation over the waste dumps.	-
5d	Total area fully reclaimed & rehabilitated	2019-20: 0.75 Ha. area along 7.5 m barrier zone has been selected for rehabilitation.	2019-20: 0.90 Ha. area along 7.5 m barrier zone has been rehabilitated through the plantation.	-

5e	General remarks of	
	inspecting officer on	NIL
	backfilling, reclamation etc	

6.0 Progressive Mine Closure Plan

	Progressive wine Closur		Astuslius	Damasla
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 before due date	Submitted information has been cross verified during inspection.	-
6b	Management of worked/mined out benches i) 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	No proposal has been given in the approved document for reclamation and rehabilitation in the worked out / mined out benches.	Not applicable.	-
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	Proposal has not been given in the approved document for reclamation and rehabilitation by backfilling in the void zone as no void zones are present in the lease area.	Not applicable.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha)	Rehabilitation of the waste dumps have been proposed in the approved document. 2000 nos. of plants 0.70 Ha.	dumps have been rehabilitated. 2248 nos. of plants 0.90 Ha.	
6e	iii) Method of rehabilitation Compliance of Environmental monitoring (core zone & buffer zone)	By Plantation Proposal has been given in the approved document for regular monitoring of the Ambient Air, Water Quality and the Noise Vibration in the Core and the Buffer Zone.	By Plantation Regular monitoring of the Ambient Air, Water Quality and the Noise Vibration in the Core and the Buffer Zone is being done.	All the paramet ers are within the prescribe d limits.

6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL
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7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal has been given in the approved document for grade wise sorting of Limestone from the ROM in the working pit through the shovels before its dispatch. CaO: 42% and above MgO: 2.0% - 4.0% SiO2: 8.0% - 12.0% Al2O3: 0.75% - 1.50% Fe2O3: 0.50% - 2.0% K2O: 0.50% - 1.0%	The Limestone with above 34% CaO is being dispatched to the captive plant.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Sorting of Limestone has been proposed through the Shovels in the working quarry before its dispatch.	Being done as per proposal.	-
7c	Different grade of mineral sorted out at mines	Grade wise of Limestone with above 42% CaO has been proposed in the approved document.	Limestone with above 34% CaO is being dispatched to the captive plant.	-
7d	Any beneficiation process at mines	No beneficiation process has been proposed in the approved document during the period of Modified Mining Plan.	Not applicable.	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and	Proposal has been	During F.Y. 2019-	-
	utilization of topsoil (Rule	given in the approved	20, 7214.00 CuM	
	36)	document for	of generated	
		separate removal and	Topsoil has been	
		stacking of 17725.00	stacked in	
		CuM of Topsoil	between UTM co-	
		generated during F.Y.	ordinates	
		2019-20 in between	N2429617 to	
		UTM co-ordinates	N2429699 and	

		N0400505		1
		N2429565 to N2429670 and E650965 to E651160 and concurrent use of Topsoil for purpose of plantation over the waste dumps.	E650913 to E651006 and the certain quantity has been utilized for the purpose of plantation over the waste dumps.	
8b	Concurrent use or storage of topsoil	-do-	-do-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of Topsoil, Overburden/Waste and the Minerals/ore have been proposed in the approved document in earmarked locations within the lease area.	Separate dumping of Topsoil, Overburden/Wast e and the Minerals/ore is being done within lease area.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	F.Y.2019-20:Proposal has been given in the approved documentforconstruction of the bunds along the periphery of lease boundary in between UTM co-ordinates N2430050toN2430255andE650528 to E650715	F.Y. 2019-20: Bunds through the waste rocks have been made in between UTM co-ordinates N2430249 to N2430101 and E650558 to E650745	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal for the plantation of 2000 nos. of sapling over the waste dumps to rehabilitate the land along the periphery of mining lease boundary has been given in the approved document.	the waste dumps for rehabilitation.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	F.Y. 2019-20: 2000 nos. of sampling in the 0.70 Ha. will be planted.	F.Y. 2019-20: 2248 nos. of sampling in the 0.90 Ha. have been planted.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 90%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling through the water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
11.	Status of submission of Monthly and Annual returns	M.R. Submitted upto – December 2020 A.R. submitted upto – F.Y. 2019-20	NIL

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager:ShriBhajanSinghRawatMiningEngineer:Shri M. GiriyaGeologist:ShriAlok Dwivedi	Manager: Shri Bhajan Singh Rawat Mining Engineer: Shri Ravikant Yadav (w.e.f. 01/06/2016) Geologist: Shri Alok Dwivedi	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 13.339 Ha. Waste/reject- 8.076 Ha. Others- 7.72 Ha.	Pit- 13.339 Ha. Waste/reject- 8.076 Ha. Others- 7.72 Ha.	-
9d	Scrutiny of Annual return on Afforestation	WithinLeaseArea:2248vith90%survivalrate.OutsideLeaseArea:300nos.with70%survivalrate.	Within Lease Area:2248nos.approx 90%survivalrate.OutsideLeaseArea:300nos.withapprox 70%survivalrate.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: NIL Grade: NIL	Mineral Reject: NIL Grade: NIL	-
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	Sale Value: NIL Ex-Mine Price: Rs. 388.29 Per Metric Tonne Cost of Production: Rs. 388.29 Per Metric Tonne	Sale Value: NIL Ex-Mine Price: Rs. 388.29 Per Metric Tonne Cost of Production: Rs. 388.29 Per Metric Tonne	-
9i	Scrutiny of Annual return on fixed assets	Rs. 179855240/-	Rs. 179855240/-	-
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns, refer point 3k for the details of the machinery deployed during F.Y. 2019-20.	Given information has been cross verified from the machinery log books.	-

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

No outstanding violations.

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

Shri R. N. Mishra, Sr. Mining Geologist, Date of Inspection: 13/09/2019

Details of the Violations Pointed-out during Inspections:

The Present inspection has been done for the processing of submitted Review of Mining Plan. No Serious Violations have been found in the mine.

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya Jr. Mining Geologist Indian Bureau of Mines, Raipur Date of Inspection: 29/12/2020