

**MCDR INSPECTION REPORT****1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur
2	Accompanying Mine Official with Designation	Shri Ritesh Kaimal, HOD (Mines) 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 breakup of Non-forest and forest land	Forest Land: NIL Non-Forest Land: 167.046 Total Lease Area: 167.046 Ha.
6	Mine Code	38CHG06001
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011
8	Name of the lessee, Address, phone, email and fax number	M/s Nuvoco Vistas Corporation Limited (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 Lease	19/04/2000 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 applicable and its period & expiry	AS per Section 8A of MMDR Amendment Act, 2015, Mining Lease has been extended for 50 years. i.e. from 26/08/2020 to 25/08/2050 (30 Years)  <b>Supplementary Mining Lease agreement has been made on 13/04/2017</b>  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

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19	Date of second Renewal, if applicable and its period & expiry	Not applicable.
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Jaya Kumar Krishnaswamy, Managing Director M/s Nuvoco Vistas Corporation Limited Equinox Business Park, Tower 3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai – 400 070 Phone: +91 (0) 22- 66306510 Fax: +91 (0) 22 – 67692595 Email: jayakumar.krishnaswamy@nuvoco.in Date of Appointment: 01/11/2018
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Raghavendra Rao Jahagirdar, Sr. Vice President & Plant Head Arasmeta Cement Plant 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 with Address, phone, email, fax number and date of appointment in mines	Shri Bhajan Singh Rawat, Manager Arasmeta Cement Plant M/s Nuvoco Vistas Corporation Limited, (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 Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Ravikant Yadav, Dy. Manager Qualification: B.E. (Mining) Experience: +12 Years Arasmeta Cement Plant M/s Nuvoco Vistas Corporation Limited, (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) 7024143400 Email: ravikant.yadav@nuvoco.in Date of Appointment: 01/06/2016
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Appointed. Shri Alok Dwivedi, AGM (Geology) Qualification: M.Tech. (Applied Geology) Total Experience: +24 years Arasmeta Cement Plant

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		M/s Nuvoco Vistas Corporation Limited, (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) 9980431038 Email: alok.dwivedi@nuvoco.in Date of Appointment: 04/08/2016
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<b>Mining Plan</b> approved vide letter no. BLS/LST/MPLN-474/NGP Nagpur dated 31/05/1996 Proposal Period: 2000-01 to 2004-05  <b>Modified Mining Plan</b> approved vide letter no. 314(3)/99-MCCM(C)/MP-12 Nagpur Dated 20/11/2000 Proposal Period: 2000-01 to 2004-05  <b>Modified Mining Plan</b> approved vide letter no. JANJ/LST/MPLN-474/NGP/21-RPR Raipur dated 19/08/2016 Proposal Period: 2016-17 to 2020-21
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<b>Scheme of Mining</b> approved vide letter no. 314(3)/2011-MCCM(CZ)/MS-51 Nagpur dated 21/06/2012 Proposal Period: 2013-14 to 2015-16  <b>Modified Scheme of Mining</b> approved vide letter no. 314(3)/2012-MCCM(CZ)/MS-41 Nagpur dated 21/06/2013 Proposal Period: 2013-14 to 2015-16
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Category 'A' Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Limestone 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.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 1,18,37,700/- submitted in the form of Bank Guarantee <b>(1)</b> 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 <b>(2)</b> Rs. 1,08,51,225/- vide Bank Guarantee No. 1637617BG0000248 dated 06/04/2017 and valid up to 31/03/2021 Validity: 22/03/2017 to 31/03/2021

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

**1.0 Exploration**

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	Under (111): 26.230 Million Tonnes Under (121): 8.75 Million Tonnes Under (211): 9.278 Million Tonnes Under (221): 13.832 Million Tonnes	-
1f	General remarks of inspecting officer on geology, exploration etc.	Total 11 nos. of core boreholes with the cumulative depth of 462.98 meters have been drilled during F.Y. 2016-17		

**2.0 Development**

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

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

### 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	<b>2019-20:</b> 360000.00 Metric Tonne	<b>2019-20:</b> 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	<b>2019-20:</b> 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.	-

		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 ROM will directly dispatch to the Captive Plant.	Mechanised segregation of Limestone from the ROM is being adopted through the excavator within the working pit.	-
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	<b>Dia.:</b> 102 mm to 115 mm <b>Depth:</b> 6.0 m to 8.0 m <b>Spacing:</b> 4.50 m to 5.0 m <b>Burden:</b> 2.50 m to 3.0 m	<b>Dia.:</b> 102 mm to 115 mm <b>Depth:</b> 6.0 m to 8.0 m <b>Spacing:</b> 4.50 m to 5.0 m <b>Burden:</b> 2.50 m to 3.0 m	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> <li>1. Drilling Machine ICM 260 02 nos. with 115 mm diameter capacity</li> <li>2. Dozer D-80 / D 155 of BEML 01 no.</li> <li>3. Hydraulic Excavators 02 nos. with 2.50 CuM to 3.0 CuM bucket capacity</li> <li>4. Dumpers/Tippers 20 nos. with 20.0 - 30.0 Metric Tonne capacity</li> <li>5. Explosive Van 01 no.</li> </ol>	<ol style="list-style-type: none"> <li>1. Hydraulic Excavator / Back Hoe 02 nos. with 0.9 CuM to 1.90 CuM bucket size</li> <li>2. Dumpers 16 nos. with 20.0 Metric Tonne capacity</li> <li>3. Dozer 01 no. with 320 HP capacity</li> <li>4. Rock Drill Machine 01 no. with 110.0 mm diameter capacity</li> <li>5. Water Tanker 01 no. with 9000 Liters capacity</li> </ol>	-

		<p>6. Water Tanker 02 nos.</p> <p>7. Diesel / Electric Pumps 02 nos. with 10.0 HP capacity</p> <p>8. Rock Breaker 01 no.</p>		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	<p><b>Height:</b> OB/Topsoil: 4.0 m to 5.0 m Mineral/Ore: 7.0 m</p> <p><b>Width:</b> OB/Topsoil: 20.0 m to 35.0 m Mineral/Ore: 20.0 m to 35.0 m</p>	<p><b>Height:</b> OB/Topsoil: 4.0 m to 5.0 m Mineral/Ore: 7.0 m</p> <p><b>Width:</b> OB/Topsoil: 20.0 m to 35.0 m Mineral/Ore: 20.0 m to 35.0 m</p>	-
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	-
3o	Total area put in use under different heads at the end of year	<p><b>Pit-</b> 14.83 Ha. <b>Waste/reject-</b> 15.002 Ha. <b>Others-</b> 9.627 Ha. up to end of F.Y. 2020-21</p>	<p><b>Pit-</b> 13.339 Ha. <b>Waste/reject-</b> 8.076 Ha. <b>Others-</b> 7.72 Ha. up to end of F.Y. 2019-20</p>	6.40 Ha. area has been converted into green belt.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	<p><b>Yr- 2015-16:</b> 720000.00 Metric Tonnes</p> <p><b>Yr- 2016-17:</b> 360000.00 Metric Tonnes</p> <p><b>Yr- 2017-18:</b> 360000.00 Metric Tonnes</p> <p><b>Yr- 2018-19:</b> 360000.00 Metric Tonnes</p> <p><b>Yr- 2019-20:</b> 360000.00 Metric Tonnes</p>	<p><b>Yr- 2015-16:</b> 275269.000 Metric Tonnes</p> <p><b>Yr- 2016-17:</b> 296903.000 Metric Tonnes</p> <p><b>Yr- 2017-18:</b> 279409.000 Metric Tonnes</p> <p><b>Yr- 2018-19:</b> 225749.070 Metric Tonnes</p> <p><b>Yr- 2019-20:</b> 279353.270 Metric Tonnes</p>	-
3q	General remarks of inspecting officer on method of mining etc.	NIL		

**4.0 Solid Waste Management-Dumping**

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

	reject (Rule 36, 37)	Overburden/Waste and the Minerals/ore have been proposed in the approved document in earmarked locations within the lease area.	Overburden/Waste and the Minerals/ore is being done within lease area.	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	<b>F.Y. 2019-20:</b>  <b>Topsoil:</b> In between UTM co-ordinates N2429565 to N2429670 and E650965 to E651160  <b>Waste/Overburden:</b> In between UTM co-ordinates N2430050 to N2430255 and E650528 to E650715	<b>F.Y. 2019-20:</b>  <b>Topsoil:</b> In between UTM co-ordinates N2429617 to N2429699 and E650913 to E651006  <b>Waste/Overburden:</b> In between UTM co-ordinates N2430249 to N2430101 and E650558 to E650745	-
4c	Number of dumps within lease area and outside lease area	<b>F.Y. 2019-20:</b> <b>Topsoil:</b> 01 no. <b>Waste/Overburden:</b> 01 no.	<b>F.Y. 2019-20:</b> <b>Topsoil:</b> 01 no. <b>Waste/Overburden:</b> 01 no.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	All the dumps are situated beyond ultimate pit limit.	-
4e	Number of active & alive dumps	02 nos.	02 nos.	-
4f	Number of dead dumps	03 nos.	03 nos.	-
4g	Number of dumps stabilised	03 nos.	03 nos.	-
4h	Whether Retaining wall or garland drain all along dumps are there	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.	Retaining wall and the garland drain have been constructed around the waste dumps and soil dumps.	-
4i	Length of Retaining wall or garland drain all along dump	Lengths of the Retaining Wall and the Garland Drain	Retaining Wall: Approx 180.0 meters	-



		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.	01 no. of settling pond has been constructed in between UTM co-ordinate N2429600 to N2429700 and E650700 to 650800	-
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 applicable, as the mineral/ore has not been mined out completely and the working pit/quarry is not matured for backfilling.	-
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.	During F.Y. 2019-20, 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	<b>2019-20:</b> 0.75 Ha. area along 7.5 m barrier zone has been selected for rehabilitation.	<b>2019-20:</b> 0.90 Ha. area along 7.5 m barrier zone has been rehabilitated through the plantation.	-

5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL
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### 6.0 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 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) iii) Method of rehabilitation	Rehabilitation of the waste dumps have been proposed in the approved document.  2000 nos. of plants 0.70 Ha. By Plantation	03 nos. of Waste dumps have been rehabilitated.  2248 nos. of plants 0.90 Ha. By Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	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.	Regular monitoring of the Ambient Air, Water Quality and the Noise Vibration in the Core and the Buffer Zone is being done.	All the parameters are within the prescribed 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% SiO <sub>2</sub> : 8.0% - 12.0% Al <sub>2</sub> O <sub>3</sub> : 0.75% - 1.50% Fe <sub>2</sub> O <sub>3</sub> : 0.50% - 2.0% K <sub>2</sub> O: 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 utilization of topsoil (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	During F.Y. 2019-20, 7214.00 CuM of generated Topsoil has been stacked in between UTM co-ordinates N2429617 to N2429699 and	-

		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/Waste 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	<b>F.Y. 2019-20:</b> Proposal has been given in the approved document for construction of the bunds along the periphery of lease boundary in between UTM co-ordinates N2430050 to N2430255 and E650528 to E650715	<b>F.Y. 2019-20:</b> 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.	2248 nos. of saplings have been plated over the waste dumps for rehabilitation.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	<b>F.Y. 2019-20:</b> 2000 nos. of sampling in the 0.70 Ha. will be planted.	<b>F.Y. 2019-20:</b> 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
	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	<b>Manager:</b> Shri Bhajan Singh Rawat <b>Mining Engineer:</b> Shri M. Giriya <b>Geologist:</b> Shri Alok Dwivedi	<b>Manager:</b> Shri Bhajan Singh Rawat <b>Mining Engineer:</b> Shri Ravikant Yadav (w.e.f. 01/06/2016) <b>Geologist:</b> Shri Alok Dwivedi	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<b>Pit-</b> 13.339 Ha. <b>Waste/reject-</b> 8.076 Ha. <b>Others-</b> 7.72 Ha.	<b>Pit-</b> 13.339 Ha. <b>Waste/reject-</b> 8.076 Ha. <b>Others-</b> 7.72 Ha.	-
9d	Scrutiny of Annual return on Afforestation	<b>Within Lease Area:</b> 2248 nos. with 90% survival rate. <b>Outside Lease Area:</b> 300 nos. with 70% survival rate.	<b>Within Lease Area:</b> 2248 nos. with approx 90% survival rate. <b>Outside Lease Area:</b> 300 nos. with approx 70% survival rate.	-
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	<b>Closing Stock:</b> ROM: NIL Graded Ore: NIL	<b>Closing Stock:</b> ROM: NIL Graded Ore: NIL	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<b>Sale Value:</b> NIL  <b>Ex-Mine Price:</b> Rs. 388.29 Per Metric Tonne  <b>Cost of Production:</b> Rs. 388.29 Per Metric Tonne	<b>Sale Value:</b> NIL  <b>Ex-Mine Price:</b> Rs. 388.29 Per Metric Tonne  <b>Cost of Production:</b> 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.	-

**File No. CHG/JNG-CHAM/LST-4/RPR**

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