

**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 Arvind Baourao Zade, Mine Manager Shri Jai Kumar Sachdeva, Mining Engineer
3	Date of inspection	10/11/2020
4	Name of the Mine	Jamul Cement Works Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-Forest: 269.95 Ha. Total Mining Lease Area: 269.95 Ha.
6	Mine Code	38MPR13001
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/256/2011
8	Name of the lessee, Address, phone, email and fax number	M/s ACC Limited Cement House, 121, Marshi Karve Road Mumbai (Maharashtra) – 400 020 Phone: +91(0) 22-33024321 Fax: +91 (0) 22- 66317407 Email: s.balakrishnan@acclimited.com
9	Village	Jamul, Dhour and Kurud
10	Taluka / Mandal / District	Tehsil: Durg, District: Durg
11	State	Chhattisgarh
12	Post office & PIN	Jamul, Pincode: 490 024
13	Nearest police station	Jamul
14	Nearest Railway station	Bhilai Power House
15	Date of Grant of Mining Lease	07/01/1958 04/05/1960 to 03/5/1980 (20 Years)
16	Date of Execution	04/05/1960
17	Date of opening of Mine	12/06/1963
18	Date of first Renewal, if applicable and its period & expiry	04/05/1980 to 03/05/2000 (20 Years)
19	Date of second Renewal, if applicable and its period & expiry	04/05/2000 to 03/05/2020 (20 Years)  As per section 8A of MMDR Amendment Act, 2015, Captive Mining Lease has been extended for 50 years or up to 31/03/2030 whichever is later.  <b>Extended Period:</b> 04/05/2020 to 31/03/2030 (10 Years)  <b>Supplementary Mining Lease Agreement for extended period has been made on 02/08/2016.</b>
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 S. Balakrishnan, Managing Director and CEO M/s ACC Limited Cement House, 121, Marshi Karve Road

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		Mumbai (Maharashtra) – 400 020 Phone: +91(0) 22-33024321 Fax: +91 (0) 22- 66317407 Email: s.balakrishnan@acclimited.com Date of Appointment: 21/02/2020
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Vaibhav Dixit, Director Plant <b>Corresponding Address:</b> M/s ACC Limited, P.O. Jamul Cement Works, Jamul, Bhilai, District Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788-2285081 to 2285085 Fax: +91 (0) 788-2282585 Email: vaibhav.dixit@acclimited.com Date of Appointment: 01/07/2018
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Arvind Bhaurao Zade, Manager <b>Corresponding Address:</b> M/s ACC Limited, P.O. Jamul Cement Works, Jamul, Bhilai, District Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788-2285081 to 2285085 Fax: +91 (0) 788-2282585 Mobile: +91 (0) 7225026281 Email: arvindbhaurao.zade@acclimited.com Date of Appointment: 19/12/2015
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Jai Kumar Sachdeva Qualification: M. Tech. (Mining) Experience: +10 Years <b>Corresponding Address:</b> M/s ACC Limited, P.O. Jamul Cement Works, Jamul, Bhilai, District Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788-2285081 to 2285085 Fax: +91 (0) 788-2282585 Mobile: +91 (0) 9109916582 Email: jaikumar.sachdeva@acclimited.com Date of Appointment: 08/05/2017
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 Divya Kant Dave Qualification: M. Tech. (Applied Geology) Experience: +10 Years <b>Corresponding Address:</b> M/s ACC Limited, P.O. Jamul Cement Works, Jamul, Bhilai, District Durg (Chhattisgarh) – 490 024 Phone: +91 (0) 788-2285081 to 2285085 Fax: +91 (0) 788-2282585 Email: d.dave@acclimited.com Mobile: +91 (0) 7225026283 Date of Appointment: 20/11/2015
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. 314(3)/2010-MCCM(C)/MP-17 Nagpur dated 11/09/200 Proposal Period (F.Y.): 2000-01 to 2004-05
27	Date of Approval of Scheme of Mining/Modified Scheme of	<b>Modified Scheme of Mining</b> approved vide letter no. 314(3)/2005-MCCM(CZ)/S-13 Nagpur dated

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	Mining with five-year period and specific condition in approval letter, if any.	01/04/2006 Proposal Period (F.Y.): 2005-06 to 2009-10  <b>Scheme of Mining</b> approved vide letter no. 314(3)/2010-MCCM(CZ)/MS-15 Nagpur dated 29/09/2010 Proposal Period (F.Y.): 2010-11 to 2014-15  <b>Modified Scheme of Mining</b> approved vide letter no. 314(3)/2012-MCCM(CZ)/MS-36 Nagpur dated 31/05/2013 Proposal Period (F.Y.): 2013-14 to 2014-15  <b>Scheme of Mining</b> approved vide letter no. DRG/LST/MPLN-116/NGP Nagpur dated 20/10/2015 Proposal Period (F.Y.): 2015-16 to 2019-20  <b>Review of Mining Plan</b> approved vide letter no. DRG/LST/MPLN-1212/2019/RPR Raipur dated 09/12/2019 Proposal Period (F.Y.): 2020-21 to 2024-25
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Category 'A' Fully Mecahnised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Limestone 3.0 Million Tonnes Per Annum obtained from the Ministry of Environment, Forest & Climate Change, Government of India, Impact Assessment Division vide letter no. F.No. J-11015/434/2013-IA.II(M) New Delhi dated 14/08/2018 Validity: 31/03/2030
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 4,15,53,000/- vide Bank Guarantee No. 1637619BG0000713 dated 30/10/2019 Validity: 30/10/2019 to 31/03/2025

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 Scheme period.	Not applicable.	As per the approved Scheme of Mining the entire lease area has been explored under G1 level.
1b	Exploration over lease area for Geological axis 1 or 2.	-do-	-do-	-do-

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1c	Exploration Agency & Expenditure in lakh Rupees during the year	-do-	-do-	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-do-	-do-	-do-
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Under (111): 80.202149 Million Tonnes Under (211): 13.81 Million Tonnes	Under (111): 80.202149 Million Tonnes Under (211): 13.81 Million Tonnes	Updated reserve and resource has been obtained from the latest approved Review of Mining Plan dated 09/12/2019
1f	General remarks of inspecting officer on geology, exploration etc.	As per the enclosed borehole logs in the latest approved Review of Mining Plan dated 09/12/2019, most of the boreholes are closed/terminated in the Limestone and as per the MMDR Amendment Act, 2015, the present Mining Lease will be expired on 31/03/2030, hence, violation under rule 12 (a) & (b) of MCDR, 2017 (Amended up to 27/03/2018) has been pointed out for the detailed exploration under G1 level in the mineralised zone and to know the depth persistence of the mineral/ore all the borehole should be drilled up to the depth of mineralization or up to the depth of 300 meters whichever is earlier.		

**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>F.Y. 2019-20:</b> Development and Production of Ore/Minerals have been proposed in between UTM Co-ordinates (1) N2350575 to N2350885 and E536915 to E537830 (2) N2350755 to N2351275 and E536975 to E537830	<b>F.Y. 2019-20:</b> Development and Production of Ore/Minerals have been proposed in between UTM Co-ordinates (1) N2350530 to N2351310 and E536875 to E537240 (2) N2350780 to N2351310 and E536890 to E537655	Excess developments in both locations in all directions have been observed. Deviation has been pointed out.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	<b>Topsoil/Overburden:</b> 02 nos. <b>Mineral/Ore:</b> 05 nos.	<b>Topsoil/Overburden:</b> 02 nos. <b>Mineral/Ore:</b> 05 nos.	-
2c	Stripping ratio or ore to OB ratio	1 : 0.134	1 : 0.016	-

2d	Quantity of topsoil generation in m3	9000.00 CuM	3240.00 CuM	Maximum production has development has been done in the existing quarry.
2e	Quantity of overburden generation in m3	111000.00 CuM	39313.00 CuM	-do-
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	01	-
3b	Quantity of ROM mineral production proposed	3048345.000 Metric Tonnes	2620330.220 Metric Tonnes	-
3c	Recovery of salable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No mineral-reject will be generated during F.Y. 2019-20	Not applicable. The entire produced limestone above 34% CaO has been consumed in the Captive Plant.	-
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 generated during F.Y. 2019-20	Not applicable. The entire produced limestone above 34% CaO has been consumed in the Captive Plant.	-
3g	Grade of sub-grade mineral generation	Not mentioned in the approved document.	Not applicable.	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Screening and Crushing has been proposed in the approved document.	Being done as per proposal.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Installation of 1500 TPH Mechanised Crushing and Screening unit with lease area of	A Mechanised Crushing and Screening unit has been installed with the capacity of 1500 TPH within mining	-

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		Jamul cement works limestone mines has been proposed in the approved document.	lease area.	
3j	Provision of drilling & blasting in mineral benches	<b>Dia.:</b> 115 mm <b>Spacing:</b> 3.0 m to 5.50 m <b>Burden:</b> 2.50 m to 3.50 m <b>Depth:</b> 6.0 m to 7.0 m	<b>Dia.:</b> 115 mm <b>Spacing:</b> 3.0 m to 5.50 m <b>Burden:</b> 2.50 m to 3.50 m <b>Depth:</b> 6.0 m to 7.0 m	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> <li>1) Shovel with 2.80 CuM bucket size capacity</li> <li>2) Dumpers with 35.0 metric tonne capacity</li> <li>3) Drilling Machine with 115 mm dia capacity</li> <li>4) Dozer</li> <li>5) Water Tanker</li> </ol>	<ol style="list-style-type: none"> <li>1) Shovel (Hydraulic) 02 nos. with 5.100 CuM bucket size capacity</li> <li>2) Dozer 01 no. with 320 HP capacity</li> <li>3) Rock Drill (Non - Elec.) 02 nos. with 115.0 mm diameter bit capacity</li> <li>4) Wheel Loader 01 no. with 6.5 CuM bucket size capacity</li> <li>5) Motor Grader 01 no. with 128 HP capacity</li> <li>6) Road Roller 01 no. with 12.0 tonnes capacity</li> <li>7) Back Hoe 01 no. with 2.40 CuM bucket capacity</li> <li>8) Dumper 07 nos. with 60.00 metric tonne capacity</li> <li>9) Generator (Diesel) 04 nos. with 48.0 KWH capacity</li> <li>10) Explosive Vans 02 nos. with 12.0 Metric Tonne and 1.0 Metric Tonnes capacity</li> <li>11) Water Tanker 01 no. with 8000.0 liters capacity</li> <li>12) Pumps (Elec.)</li> </ol>	-

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			<p>01 no. with 1300.0 liters per minute capacity</p> <p><b>13) Pumps (Non – Elec.)</b> 01 no. with 110.0 HP capacity</p> <p><b>14) Crusher</b> 01 no. with 1500 TPH capacity</p> <p><b>15) Trucks</b> 02 nos. with 6.0 Metric Tonne and 10.0 Metric Tonne.</p>	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	<p><b>Topsoil:</b> 0.30 m</p> <p><b>OB:</b> 3.70 m</p> <p><b>Waste:</b> 5.0 m</p> <p><b>Mineral/Ore:</b> 6.0 m</p>	<p><b>Topsoil:</b> 0.30 m</p> <p><b>OB:</b> 3.70 m</p> <p><b>Waste:</b> 5.0 m</p> <p><b>Mineral/Ore:</b> 7.0 m</p>	-
3m	Total area covered under excavation/pits	98.29 Ha. up to end of F.Y. 2019-20	92.70 Ha. up to end of F.Y. 2019-20	-
3n	Ore to OB ratio for the pit/mine during the year	1:0.134	1: 0.016	
3o	Total area put in use under different heads at the end of year	<p><b>Pit-</b> 98.29 Ha.</p> <p><b>Waste/reject-</b> 10.86 Ha.</p> <p><b>Others-</b> 38.51 Ha.</p> <p>up to end of F.Y. 2019-20</p>	<p><b>Pit-</b> 92.70 Ha.</p> <p><b>Waste/reject-</b> 0.47 Ha.</p> <p><b>Others-</b> 78.86 Ha.</p> <p>up to end of F.Y. 2019-20</p>	Deviation has been pointed out for excess utilization of the area.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	<p><b>Yr- 2015-16:</b> 3000030.00 Metric Tonnes</p> <p><b>Yr- 2016-17:</b> 3003115.00 Metric Tonnes</p> <p><b>Yr- 2017-18:</b> 3035625.00 Metric Tonnes</p> <p><b>Yr- 2018-19:</b> 3014460.00 Metric Tonnes</p> <p><b>Yr- 2019-20:</b> 3048345.00 Metric Tonnes</p>	<p><b>Yr- 2015-16:</b> 577107.690 Metric Tonnes</p> <p><b>Yr- 2016-17:</b> 1798970.070 Metric Tonnes</p> <p><b>Yr- 2017-18:</b> 1796741.160 Metric Tonnes</p> <p><b>Yr- 2018-19:</b> 2138462.920 Metric Tonnes</p> <p><b>Yr- 2019-20:</b> 2620330.220 Metric Tonnes</p>	-
3q	General remarks of inspecting officer on method of mining etc.	As per the last approved document, it has been proposed to utilise 147.66 Ha. mining lease area up to end of F.Y. 2019-20 whereas, 172.03 Ha. mining lease area has been utilised up to end of F.Y. 2019-20. Hence, deviation has been pointed out for excess utilisation of 24.37 Ha. area.		

**4.0 Solid Waste Management-Dumping**

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Proposal has been given in the approved document for separate dumping of Topsoil, OB, Waste and Mineral/Ore	A certain quantity of limestone and over size boulders of limestone have been dumped along with the waste rock in the mined out pit for reclamation and rehabilitation.	Deviation has been pointed out.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	In between UTM co-ordinates <b>Topsoil:</b> N2350245 to N2350425 and E536725 to E536900 <b>OB &amp; Waste (Backfilling):</b> N2350455 to N2350715 and E537475 to E537965	In between UTM co-ordinates <b>Topsoil:</b> N2350250 to N2350450 and E536760 to E536910 <b>OB &amp; Waste (Backfilling):</b> N2350480 to N2351030 and E537475 to E538115	-
4c	Number of dumps within lease area and outside lease area	<b>Within Lease Area:</b> Topsoil: 01 no. OB/Waste (Backfilling): 01 no. <b>Outside Lease Area:</b> NIL	<b>Within Lease Area:</b> Topsoil: 01 no. OB/Waste (Backfilling): 01 no. <b>Outside Lease Area:</b> 01 no. near boundary pillar no. 126 (Old Dump)	Deviation has been pointed out.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Being done as per proposal.	-
4e	Number of active & alive dumps	Topsoil: 01 no. OB/Waste (Backfilling): 01 no.	Topsoil: 01 no. OB/Waste (Backfilling): 01 no.	-
4f	Number of dead dumps	Conversion of the active dumps in to dead dumps during Scheme period has not been proposed in the approved document.	Not applicable.	-
4g	Number of dumps stabilised	No proposal has been given in the approved document for stabilization of the dump during Scheme period.	Not applicable.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has been given in the approved document for	Parapet Wall and Garland Drain along the waste dump have not been	Deviation has been pointed out.



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		construction of Parapet Wall and Garland Drain along the waste dump to arrest all the flowing material coming out from the dumps.	constructed. Only deepening of the existing garland drain has been done.	
4i	Length of Retaining wall or garland drain all along dump	Not mentioned in the approved document.	Deepening of the existing garland drain has been done approximately up to 550 meters.	-
4j	Number of settling ponds	No proposal has been given in the approved document for construction of settling ponds.	Not applicable.	-
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	As per the approved document approximately mineral has been mined out from the 164.45 Ha. and the reclamation and the rehabilitation will be done in this area in phase manner. Part of the mined out pit will be converted in to water reservoir.	Being done as per proposal.	-
5b	Area under backfilling of mined out area	<b>2019-20:</b> 0.56 Ha. area will be backfilled with the waste rocks and the overburden.	<b>2019-20:</b> Backfilling through the waste rock and the overburden has been done in 0.47 Ha.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposal has been given in the approved document for concurrent use of generated topsoil for spreading over the backfilled area for plantation purpose. Remaining Quantity of topsoil will be stacked in between UTM co-ordinates	Being done as per proposal.	-

		N2350245 to N2350425 and E536725 to E536900 for future utilization.		
5d	Total area fully reclaimed & rehabilitated	Proposal has been given in the approved document for reclamation and rehabilitation in 056 Ha. area in the mined out quarry.	Reclamation and rehabilitation has been done in 0.47 Ha. during F.Y. 2019-20.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	A certain quantity of limestone and over size boulders of limestone have been dumped along with the waste rock in the mined out pit for reclamation and rehabilitation. Deviation has been pointed out.		

### 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 on time.	Given 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	164.45 Ha.  1.0 ha. 2500 nos.  199181 nos.  By Plantation  Rs. 4,10,000/-	164.45 Ha.  1.0 ha. 2500 nos.  246914 nos.  By Plantation  No record has been maintained.	-
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	As per the approved document no void area present within lease area.	Not applicable.	-

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6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	2500 nos. 0.56 Ha. By backfilling of the waste and the overburden.	2500 nos. 0.47 Ha. By backfilling of the waste and the overburden.	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been in the approved document for regular monitoring of environmental parameters at the core and the buffer zone.	Being done as per proposal.	-
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

**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 segregation of the mineral/ore from the ROM through the mechanised method.	Above 34% CaO Limestone is being directly dispatched to the captive plant.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised Screening and Sorting has been proposed in the approved document for segregation of above 34% and above CaO Limestone.	Being done as per proposal.	-
7c	Different grade of mineral sorted out at mines	Proposal has been given in the approved document for sorting of 34% and above Limestone from the ROM.	Being done as per proposal.	-
7d	Any beneficiation process at mines	Installation of 1500 TPH Mechanised Crushing and Screening unit with lease area of Jamul cement works limestone mines has been proposed in the approved document.	A Mechanised Crushing and Screening unit has been installed with the capacity of 1500 TPH within mining lease area.	-

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Dry Crusher with the capacity of 1500 TPH has been erected in the lease area.
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**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 of 9000.000 CuM Topsoil and separate stacking with UTM co-ordinates N2350245 to N2350425 and E536725 to E536900 during F.Y. 2019-20.	3240 CuM of Topsoil has been generated during F.Y. 2019-20 and stacked in between UTM co-ordinates N2350250 to N2350450 and E536760 to E536910	-
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for concurrent use of topsoil for spreading over the backfilled area for the purpose of plantation and rehabilitation.	Being done as per proposal.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposal has been given in the approved document for separate dumping of Topsoil, OB/Waste and Mineral in the earmarked location with the lease area.	A certain quantity of limestone and over size boulders of limestone have been dumped along with the waste rock in the mined out pit for reclamation and rehabilitation.	Deviation has been pointed out.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal has been given in the approved document for use of overburden and waste rock for backfilling in the mined out area.	Being done as per proposal.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal has been given in the approved document for ground restoration through the backfilling in the mined out pit. During F.Y. 2019-20: 0.56 Ha. area has been selected for backfilling.	During F.Y. 2019-20: 0.47 Ha. mined out area has been backfilled.	-

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8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	<b>F.Y. 2019-20:</b> 2500 nos. of saplings will be planted in 1.0 Ha. area.	<b>F.Y. 2019-20:</b> 2500 nos. of saplings have been planted in 1.0 Ha. area.	-
8g	Survival rate	Not mentioned in the approved document.	Approximately 85%	-
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 – November 2020 A.R. submitted upto- F.Y. 2019-20	

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>Mining Engineer:</b> Shri Jai Kumar Sachdeva <b>Geologist:</b> Shri Divya Kant Dave <b>Manager:</b> Shri Arvind Bhaurao Zade	<b>Mining Engineer:</b> Shri Jai Kumar Sachdeva <b>Geologist:</b> Shri Divya Kant Dave <b>Manager:</b> Shri Arvind Bhaurao Zade	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<b>Pit-</b> 92.70 Ha. <b>Waste/reject-</b> 0.47 Ha. <b>Others-</b> 78.86 Ha. up to end of F.Y. 2019-20	<b>Pit-</b> 92.70 Ha. <b>Waste/reject-</b> 0.47 Ha. <b>Others-</b> 78.86 Ha. up to end of F.Y. 2019-20	-
9d	Scrutiny of Annual return on Afforestation	<b>Within Lease Area:</b> 2500 nos. <b>Outside Lease Area:</b> 2000 nos.	<b>Within Lease Area:</b> 2500 nos. <b>Outside Lease Area:</b> 2000 nos.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: NIL Grade: CaO 23% and SiO <sub>2</sub> 35%	No mineral reject generated during F.Y. 2019-20.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<b>Closing Stock ROM:</b> NIL <b>Graded Ore:</b> NIL	<b>Closing Stock ROM:</b> NIL <b>Graded Ore:</b> NIL	-

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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<b>Sale Value:</b> NIL <b>Ex. Mine Price:</b> Rs. 247.13 Per Metric Tonne <b>Cost of Production:</b> 247.13 Per Metric Tonne	<b>Sale Value:</b> NIL <b>Ex. Mine Price:</b> Rs. 247.13 Per Metric Tonne <b>Cost of Production:</b> 247.13 Per Metric Tonne	-
9i	Scrutiny of Annual return on fixed assets	Rs. 255972657/-	Rs. 255972657/-	
9k	Scrutiny of Annual return on mining machineries	Given in the returns.	Cross verified through the field log books.	-

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

No outstanding violations. No serious violations have been pointed out during previous inspection.

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

Shri R. N. Mishra, Sr. Mining Geologist and Shri R. K. Das, Sr. ACOM, dated of inspection: 30/09/2019

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
नियम संख्या 11 (1)	The following deviations have been found in the mine from the approved Scheme of Mining vide letter no. DGR/LST/MPLN-116/NGP Nagpur dated 20/10/2015 for the period of F.Y. 2015-16 to 2019-20: <b>Protective Measures:</b> There was a proposal given for construction of parapet wall along the dump periphery, the same has not been constructed.
नियम संख्या 12 (a) एवं (b)	As per the enclosed borehole logs in the latest approved Review of Mining Plan dated 09/12/2019, most of the boreholes are closed/terminated in the Limestone and as per the MMDR Amendment Act, 2015, the present Mining Lease will be expired on 31/03/2030. Hence, violation under rule 12 (a) & (b) of MCDR, 2017 (Amended up to 27/03/2018) has been pointed out for the detailed exploration under G1 level in the mineralised zone and to know the depth persistence of the mineral/ore, all the boreholes should be drilled up to the depth of mineralization or up to the depth of 300 meters whichever is earlier.
नियम संख्या 14 (3)	A certain quantity of limestone and over size boulders of limestone have been dumped along with the waste rock in the mined out pit for reclamation and rehabilitation.
नियम संख्या 27 (1)	Financial Year 2019-20: It has been found that as per the approved Scheme of Mining, 147.66 Ha lease area has been considered for calculation of Financial Assurance up to the end of the Scheme Period. Whereas, 172.03 Ha. area has been utilized till the end of F.Y. 2019-20. Hence, Financial Assurance in the form of Bank Guarantee for the excess used 24.37 Ha. lease area has to be submitted under rule 27(1) of MCDR, 2017 to the authorized officer.

नियम संख्या 45 (7)	<b>Annual Return F.Y. 2019-20:</b> <b>Part – VII; Cost Of Production:</b> The cost of DMF, NMET should be specifically mentioned in the Para (viii) Others.
नियम संख्या 46	<b>Notice of Certain Appointment:</b> Appointment notice of Nominated Owner has not been sent to the authorized officer within fifteen days from the date of such appointments. .

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya  
Jr. Mining Geologist  
Indian Bureau of Mines, Raipur  
Date of Inspection: 10/11/2020