

**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	Accompany with Mine Officials	Shri Nitesh Raguwanshi, Head (Mines) Shri Bhavin Kumar Suthar, Manager (Mines)
3	Date of inspection	28/01/2020
4	Name of the Mine	Rawan Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-forest: 252.105 Ha. Forest: NIL Total Lease Area: 252.105 Ha.
6	Mine Code	38MPR28007
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/447/2011
8	Name of the lessee, Address, phone, email and fax number	M/s Ambuja Cements Limited P.O. Ambuja Nagar, Taluka Kodinar, District Gir Somnath, Gujarat – 362 715 Phone: +91 (0) 2795 - 221137 / 232365 Fax: NIL Email: md.office@ambujacement.com
9	Village	Rawan
10	Taluka / Mandal / District	Tehsil: Balodabazar-Bhatapara, District: Balodabazar-Bhatapara
11	State	Chhattisgarh
12	Post office & PIN	Rawan, Pin Code: 493 331
13	Nearest police station	Bhalodabazar-Bhatapara
14	Nearest Railway station	Bhatapara
15	Date of Grant of Mining Lease	26/06/1981 to 25/06/2001 (20 years)
16	Date of Execution	26/06/1981
17	Date of opening of Mine	01/04/1984
18	Date of first Renewal, if applicable and its period & expiry	26/06/2001 to 25/06/2021 (20 years) dated 03/01/2002
19	Date of second Renewal, if applicable and its period & expiry	As per Section 8A of MMDR Amendment Act, 2015, validity of the Mining Lease has been extended up to 50 years i.e. up to 25/06/2031.  Supplementary lease agreement for the extended period has been made on 11/01/2017.  Period: 26/06/2021 to 25/06/2031 (10 years)
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	No information available.
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Bimlendra Jha, MD and CEO M/s Ambuja Cements Limited Elegant Business Park, MIDC Cross Road B, Off Andheri-Kurla Road, Andheri (E) Mumbai (Maharashtra) – 400059 Phone: +91 (0) 22 – 40667000

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		<p>Fax: NIL                      Email: md.office@ambujacement.com                      Date of Appointment: 01/03/2019</p>
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<p>Shri Pankaj Lochan, President (Manufacturing)                      M/s Ambuja Cements Limited                      Unit- Bhatapara, P.O. Rawan,                      Tehsil: Balodabazar – Bhatapara                      District: Balodabazar – Bhatapara (Chhattisgarh)                      Pin Code: 493 331                      Phone: +91 (0) 7727-220010/11/12/13/14/15                      Fax: +91 (0) 7727 - 220004                      Email: pankaj.lochan@ambujacement.com                      Date of Appointment: 02/01/2020</p>
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<p>Shri Suthar Bhavin Kumar, Manager (Mines)                      M/s Ambuja Cements Limited                      Unit- Bhatapara, P.O. Rawan,                      Tehsil: Balodabazar – Bhatapara                      District: Balodabazar – Bhatapara (Chhattisgarh)                      Pin Code: 493 331                      Phone: +91 (0) 7727-220010/11/12/13/14/15                      Fax: +91 (0) 7727 - 220004                      Email: bhavinkumar.suthar@ambujacement.com                      Date of Appointment: 29/06/2018</p>
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<p>Shri Shiv Kumar Sahu, Senior Manager                      Qualification: B.E. (Mining)                      Experience: +22 years                      M/s Ambuja Cements Limited                      Unit- Bhatapara, P.O. Rawan,                      Tehsil: Balodabazar – Bhatapara                      District: Balodabazar – Bhatapara (Chhattisgarh)                      Pin Code: 493 331                      Phone: +91 (0) 7727-220010/11/12/13/14/15                      Fax: +91 (0) 7727 - 220004                      Email: shiv.sahu@ambujacement.com                      Date of Appointment: 19/03/2012</p>
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	<p>Yes Appointed,                      Ms. Khushboo                      Qualification: M.Sc. (Geology)                      Experience: +5 years                      M/s Ambuja Cements Limited                      Unit- Bhatapara, P.O. Rawan,                      Tehsil: Balodabazar – Bhatapara                      District: Balodabazar – Bhatapara (Chhattisgarh)                      Pin Code: 493 331                      Phone: +91 (0) 7727-220010/11/12/13/14/15                      Fax: +91 (0) 7727 - 220004                      Email: khushboo.1@ambujacement.com                      Date of Appointment: 01/11/2019</p>
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<p><b>Mining Plan</b> approved vide letter no. 314(3)/2000-MCCM(CZ)/MP-24 Nagpur dated 10/10/2001                      Proposal Period: 2001-02 to 2005-06  <b>Modified Mining Plan</b> approved vide letter no. 314(3)/2000-MCCM(CZ)/MP-24 Nagpur dated 28/01/2006                      Proposal Period: 2005-06  <b>Modified Mining Plan</b> approved vide letter no.</p>

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		314(3)/2000-MCCM(CZ)/MP-24 Nagpur dated 08/08/2006 Proposal Period: 2006-07 to 2010-11 <b>Modified Mining Plan</b> approved vide letter no. RPR/LST/MPNL-135/NGP/2015/13-RPR Raipur dated 04/08/2016 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)/2005-MCCM(CZ)/S-18 Nagpur dated 09/08/2006 Proposal Period: 2006-07 to 2010-11 <b>Modified Scheme of Mining</b> approved vide letter no. 314(3)/2005-MCCM(CZ)/S-17 Nagpur dated 02/03/2007 Proposal Period: 2006-07 to 2010-11 <b>Scheme of Mining</b> approved vide letter no. 314(3)/2005-MCCM(CZ)/S-13 Nagpur dated 02/09/2011 Proposal Period: 2011-12 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 6.31 Million Tonnes Per Annum obtained from the Ministry of Environment and Forest, Government of India vide letter no. J-11015/330/2006-IA.II(M) New Delhi dated 08/06/2007.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Submitted Rs. 8,66,52,000/- Vide BG No. 0544BGR0026017 dated 09/06/2016 Validity 09/06/2016 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 during plan period.	The entire lease area has been explored under 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	-do-	-do-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-do-	-do-	-
1e	Balance reserves as on 01.04.2020 (in Million)	Under (111): 61.50 Million Tonnes	Under (111): 64.40 Million	Production for F.Y.

	Tonnes)	Under (211): 379.42 Million Tonnes Under (221): 67.42 Million Tonnes Under (331): 152.09 Million Tonnes	Tonnes (211): 379.42 Million Tonnes Under (221): 67.42 Million Tonnes Under (331): 152.09 Million Tonnes	2019-20 has been obtained from the monthly returns.
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

**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>2018-19:</b> <b>North Block:</b> N613800 to N615100 and E2396800 to E2398100 <b>South Block:</b> N613150 to N614800 and E2396050 to E2396800	<b>2018-19:</b> <b>North Block:</b> N613800 to N615100 and E2396800 to E2398100 <b>South Block:</b> N613150 to N614800 and E2396050 to E2396800	-
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	<b>Topsoil/OB:</b> 01 no. <b>Mineral/Ore:</b> 05 nos.	<b>Topsoil/OB:</b> 01 no. <b>Mineral/Ore:</b> 05 nos.	-
2c	Stripping ratio or ore to OB ratio	<b>2018-19:</b> 1 : 0.31	<b>2018-19:</b> 1 : 0.12	-
2d	Quantity of topsoil generation in m3	133333.33 CuM (200000.00 Metric Tonnes)	90740.00 CuM (136110.00 Metric Tonnes)	-
2e	Quantity of overburden generation in m3	520000.00 CuM (780000.00 Metric Tonnes)	550380.66 CuM (825571.00 Metric Tonnes)	-
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	02 nos.	02 nos.	-
3b	Quantity of ROM mineral production proposed	<b>2018-19:</b> 6000000.00 Metric Tonnes <b>2019-20:</b> 5500000.00	<b>2018-19:</b> 5382863.00 Metric Tonnes <b>2019-20:</b> 5303551.00 Metric	-

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		Metric Tonnes	Tonnes	
3c	Recovery of salable/usable mineral from ROM production	Not mentioned in the approved document.	100% as the entire produced ROM/Ore has been consumed in the captive plant.	-
3d	Quantity of mineral reject generation	860000.00 Metric Tonnes	271716.00 Metric Tonnes	-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document.	Below 34% CaO has been considered as mineral reject.	Below 34% CaO grade of Limestone may be treated as waste not as mineral reject.
3f	Quantity of sub-grade mineral generation	As per the approved document no mineral Sub-grade will be generated during plan period.	Not applicable as no mineral Sub-grade has been generated during F.Y. 2018-19.	-
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 Crushing and Screening.	Being done as per proposal.	-
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 plan period.	Not applicable.	No beneficiati on study has been done during F.Y. 2018-19
3j	Provision of drilling & blasting in mineral benches	<b>Dia:</b> 115 mm <b>Spacing:</b> 3.5 m to 6.5 m <b>Burden:</b> 3.0 m to 5.5 m <b>Depth:</b> 6.0 m to 8.0 m	<b>Dia:</b> 102 mm to 115 mm <b>Spacing:</b> 3.5 m to 6.5 m <b>Burden:</b> 3.0 m to 5.5 m <b>Depth:</b> 6.0 m to 8.0 m	-
3k	Provision of mining machineries in mineral benches	<b>1.</b> Loading Machine EX600V Shvel 01 no. with 4.2 CuM bucket capacity <b>2.</b> PC1250 Excavator 04 nos. with 6.5	<b>1.</b> Shovel (Hydraulic) 04 nos. with 6.5 CuM bucket capacity <b>2.</b> Back Hoe 02 nos. with 5.50 CuM bucket capacity <b>3.</b> WHEEL	

		<p>CuM bucket capacity</p> <p><b>3.</b> Loading Machine Liebherr/974 02 nos. with 5.8 CuM bucket capacity</p> <p><b>4.</b> Rock Breaker EX200 01 no.</p> <p><b>5.</b> Rock Breaker Terminator Rocktec/DX1 800 01 no.</p> <p><b>6.</b> Wheel Loader L580 01 no. with 5.74 CuM bucket capacity</p> <p><b>7.</b> Dozer Komatsu/D1 55 02 nos.</p> <p><b>8.</b> Dumper Komatsu/HD 465-7 13 nos. with 55 Tonnes capacity</p> <p><b>9.</b> BEML/WS28 -2 Water Tanker 01 no. with 28 Kilo Liter capacity</p> <p><b>10.</b> Water Tanker TATA-2516 01 no. with 9 Kilo Liter capacity</p> <p><b>11.</b> Drill Machine Altas Copco/ROC L8 02 nos. with 30 meters per hour capacity</p> <p><b>12.</b> Drill Machine Atlas Copco/ROC D50 01 no.</p>	<p>LOADER 01 no. with 5.0 CuM bucket capacity</p> <p><b>4.</b> Shovel (Hydraulic) 01 no. with 4.2 CuM bucket capacity</p> <p><b>5.</b> Shovel (Hydraulic) 01 no. with 1.0 CuM bucket capacity</p> <p><b>6.</b> Dumper 10 nos. with 55.0 Metric Tonne capacity</p> <p><b>7.</b> Dumper 03 nos. with 100.0 Metric Tonne capacity</p> <p><b>8.</b> Blast Host Drill 01 no. with 115 mm dia</p> <p><b>9.</b> Blast Host Drill 01 no. with 101 mm dia</p> <p><b>10.</b> Air Compressor 02 nos. with 400 CuM/Mn capacity</p> <p><b>11.</b> Motor Grader 01 no. with 195.0 HP capacity</p> <p><b>12.</b> Electric Pump 02 no. with 9900 Liter/Mn discharge capacity</p> <p><b>13.</b> Electric Pump 02 no. with 5000 Liter/Mn discharge capacity</p> <p><b>14.</b> Electric Pump 01 no. with 2500 Liter/Mn discharge capacity</p> <p><b>15.</b> Electric Pump 01 no. with 4000 Liter/Mn discharge capacity</p> <p><b>16.</b> Dozer 01 no. with 330 HP</p>	
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		<p>with 40 meters per hour capacity</p> <p><b>13.</b> Soil Copector L&amp;T Case/1107D 01 no.</p> <p><b>14.</b> Motor Grader G 930 Volvo 01 no.</p> <p><b>15.</b> Explosive Van 02 nos.</p> <p><b>16.</b> Maintenance Van 02 nos.</p> <p><b>17.</b> Diesel Tanker 02 nos. with 9000 liters capacity</p> <p><b>18.</b> Hydra Crane 14 Tonne 01 no. with 14 Tonnes capacity</p>	<p>capacity</p> <p><b>17.</b> Water Tanker 01 no. with 9000 liter capacity</p> <p><b>18.</b> Crane 01 no. with 14.0 tonne capacity</p> <p><b>19.</b> Water Tanker 01 no. with 28000 liter capacity</p> <p><b>20.</b> Explosive Van 01 no. with 9.0 Metric Tonne capacity</p>	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	<p><b>Height</b> Topsoil/OB: 1.0 m to 6.0 m Mineral/Ore: 6.0 m to 8.0 m</p> <p><b>Width</b> Topsoil/OB: 10.0 m to 12.0 m Mineral/Ore: 15.0 m to 20.0 m</p>	<p><b>Height</b> Topsoil/OB: 1.0 m to 6.0 m Mineral/Ore: 6.0 m to 8.0 m</p> <p><b>Width</b> Topsoil/OB: 10.0 m to 12.0 m Mineral/Ore: 15.0 m to 20.0 m</p>	-
3m	Total area covered under excavation/pits	226.48 Ha.	170.118 Ha.	-
3n	Ore to OB ratio for the pit/mine during the year	<b>2018-19:</b> 1 : 0.31	<b>2018-19:</b> 1 : 0.12	-
3o	Total area put in use under different heads at the end of year	<p><b>Pit-</b> 226.480 Ha. <b>Waste/reject-</b> 40.40 Ha. <b>Others-</b> 21.96 Ha.</p>	<p><b>Pit-</b> 170.118 Ha. <b>Waste/reject-</b> 29.010 Ha. <b>Others-</b> 31.32 Ha.</p>	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	<p><b>Yr- 2014-15:</b> 6310000.00 Metric Tonnes</p> <p><b>Yr- 2015-16:</b> 6310000.00 Metric Tonnes</p> <p><b>Yr- 2016-17:</b> 6300000.00 Metric Tonnes</p> <p><b>Yr- 2017-18:</b> 6300000.00 Metric Tonnes</p>	<p><b>Yr- 2014-15:</b> 5000819.00 Metric Tonnes</p> <p><b>Yr- 2015-16:</b> 5515027.00 Metric Tonnes</p> <p><b>Yr- 2016-17:</b> 5244204.00 Metric Tonnes</p> <p><b>Yr- 2017-18:</b> 5279965.00 Metric Tonnes</p>	-

		Yr- 2018-19: 6000000.00 Metric Tonnes	Yr- 2018-19: 5382863.00 Metric Tonnes	
		Yr- 2019-20: 5500000.00 Metric Tonnes	Yr- 2019-20: 5303551.00 Metric Tonnes	
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 reject (Rule 36, 37)	Proposal has been given in the approved document for separate dumping of Topsoil/OB, Waste and Mineral Reject in the earmarked locations within lease area.	Separate dumping of Topsoil/OB, Waste and Mineral Reject are being done in the earmarked location within lease area.	-
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	In between UTM co-ordinates  <b>North Block</b> <b>Topsoil/OB, Waste and Mineral Reject:</b> N2297275 to N2398060 and E613565 to E614465 <b>Mineral/Ore:</b> Not proposed  <b>South Block:</b> <b>Topsoil/OB, Waste and Mineral Reject:</b> N2396205 to N2396760 and E612540 to E613185 <b>Mineral/Ore:</b> Not proposed	In between UTM co-ordinates  <b>North Block</b> <b>Topsoil/OB, Waste and Mineral Reject:</b> N2297275 to N2398060 and E613565 to E614465 <b>Mineral/Ore:</b> Not proposed  <b>South Block:</b> <b>Topsoil/OB, Waste and Mineral Reject:</b> N2396205 to N2396760 and E612540 to E613185 <b>Mineral/Ore:</b> Not proposed	
4c	Number of dumps within lease area and outside lease area	<b>Within Lease Area:</b> 07 no. <b>Outside Lease Area:</b> NIL	<b>Within Lease Area:</b> 07 no. <b>Outside Lease Area:</b> NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Dumping has been proposed beyond ultimate pit limit.	Dumping is being done beyond ultimate pit limit.	



4e	Number of active & alive dumps	02 nos.	02 nos.	-
4f	Number of dead dumps	09 nos.	09 nos.	-
4g	Number of dumps stabilised	01 no.	01 no.	-
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 waste dumps situated at Northern and Southern Block.	The existing protective measures taken around Dump-J situated at Northern Block is insufficient and it has been found that the waste material were escaping and was washing away from the dump.	Deviation has been pointed out
4i	Length of Retaining wall or garland drain all along dump	Length of Retaining wall and the garland drain are not mentioned in the approved document.	-do-	-do-
4j	Number of settling ponds	No proposal has been given in the approved document for construction of settling ponds.	No settling ponds have been constructed.	-
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 mineral/ore before start backfilling during conceptual stage of the mine.	Not applicable as on date, as the mineral/ore has not been completely mined out.	-
5b	Area under backfilling of mined out area	Proposal has not been given in the approved document for backfilling.	Area not matured for backfilling.	-
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 topsoil for restoration of the ground.	Topsoil/OB has been stacked at 7.5 m barrier zone and the plantation has been done over on it.	-
5d	Total area fully reclaimed & rehabilitated	Proposal has not been given in the approved document	Area not matured for reclamation and rehabilitation.	-

		for the reclamation and rehabilitation		
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

### 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.	Furnished 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	1.50 Ha. 3.50 Ha. 1500 nos. 5000 nos. By Plantation Not mentioned in the approved document.	NIL as the infilling plantation has been done. 17.62 Ha. 1500 nos. 89787 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	Proposal has not been given in the approved document for reclamation and rehabilitation by backfilling in the voids area.	Not applicable, as on date no voids area present within lease area.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Proposal has not been given in the approved document for rehabilitation of waste land within lease area.	Not applicable.	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of Environmental Parameters at core and Buffer Zone.	Being done as per proposal.	As per the reports, all the parameters are within

				the prescribed limit.
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 before its dispatch to the crusher plant.	Being done as per proposal. Mineral/Ore has been sorted at the pit head before its dispatch to the crusher plant.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised sizing has segregation has been proposed in the approved at the pit head.	Being done as per proposal	-
7c	Different grade of mineral sorted out at mines	Proposal has not been given in the approved document for grade wise sorting of the mineral/ore at the mine site.	The entire produced ROM mineral has been consumed in the captive plan.	-
7d	Any beneficiation process at mines	No beneficiation process has been proposed in the approved document during plan period.	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 of topsoil and stacking at earmarked location within lease area.	Being done as per proposal.	-
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for concurrent use of topsoil for ground restoration.	Being done as per proposal.	-

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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 and Mineral/Ore.	Being done as per proposal.	-
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 utilization of Topsoil/OB for ground restoration.	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 phase restoration and rehabilitation through plantation.	Infilling plantation has been done within the existing plantation.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2018-19: 1500 nos. of saplings will be planted over the mined out benches.	2018-19: 2500 nos. of Infilling plantation has been done within the existing plantation.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 85%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling through 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 – March 2020 A.R. submitted upto- F.Y. 2018-19	-

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 Shiv Kumar Sahu <b>Geologist:</b> Shri Digendra Singh Solanki <b>Manager:</b> Shri Suthar Bhavin Kumar	<b>Mining Engineer:</b> Shri Shiv Kumar Sahu <b>Geologist:</b> Ms. Khusboo w.e.f. 01/11/2019 <b>Manager:</b> Shri Suthar Bhavin Kumar	-

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<b>Pit-</b> 170.118 Ha. <b>Waste/reject-</b> 29.010 Ha. <b>Others-</b> 31.32 Ha.	<b>Pit-</b> 170.118 Ha. <b>Waste/reject-</b> 29.010 Ha. <b>Others-</b> 31.32 Ha.	-
9d	Scrutiny of Annual return on Afforestation	Within Lease Area: 2500 nos. Outside Lease Area: 14457 nos.	Within Lease Area: 2500 nos. Outside Lease Area: 14457 nos.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: 271716.00 Metric Tonnes Grade: Below 34% CaO	Incorrect nomenclature has been done as the mentioned quantity is below the threshold value of mineral/ore, hence it may be considered as waste.	-
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. 216.73 Per Metric Tonne. <b>Cost of Production:</b> Rs. 216.73 Per Metric Tonne.	<b>Sale Value:</b> NIL <b>Ex-mine Price:</b> Rs. 216.73 Per Metric Tonne. <b>Cost of Production:</b> Rs. 216.73 Per Metric Tonne.	-
9i	Scrutiny of Annual return on fixed assets	Rs. 10567510915/-	Rs. 10567510915/-	-
9k	Scrutiny of Annual return on mining machineries	Given in the returns.	Verified from the field logbooks.	-

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

Outstanding violations: 37(1)

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

Shri R. K. Das, Sr. Asstt. Controller of Mines, Date of Inspection: 26/07/2019

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
<b>Rule 11(1)</b>	The following deviations have been found in the mine from the approved Modified Mining Plan vide letter no. RPR/LST/MPLN-135/NGP/2015/13-RPR Raipur dated 04/08/2016 for the period of F.Y. 2016-17 to 2020-21: <b>Protective Measures:</b> In the approved Modified Mining Plan, there was a proposal given for construction of retaining wall all along the toe of the dump to arrest the washed fines and rolling boulders. Whereas, in the Northern Block, around the existing waste dump, retaining wall has not been constructed completely to arrest the washed fines and rolling boulders.

**File No. CHG/RAP/LST-37/RPR**

<b>Rule 33</b>	Updated print copy of the surface geological plan and sections has not been submitted before 30th day of June for the financial year 2018-19.
<b>Rule 45(7)</b>	<b><u>Annual Return F.Y. 2018-19:</u></b> <b>Part V; General Geology &amp; Mining:</b> 4.2 (c): Total quantity of Overburden/Waste removed during the year (tonnes) has not been mentioned.

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya  
Jr. Mining Geologist  
Indian Bureau of Mines, Raipur  
Date of inspection: 28/01/2020