MCDR INSPECTION REPORT

1.0 GENERAL

| SN | Particulars | Details | | |
|----|----------------------------------|--|--|--|
| 1 | Name of inspecting office & | S. Kartikeya, Jr. Mining Geologist, | | |
| | designation | Indian Bureau of Mines, Raipur | | |
| 2 | Accompany with Mine | Shri Mayank Saini AGM (Mines Operation), | | |
| | Officials | Shri Kamlesh Chandrakar- Manager (Planning | | |
| | | &Geology) | | |
| 3 | Date of inspection | 19/09/2019 | | |
| 4 | Name of the Mine | Rawan Jhipan Limestone Mine | | |
| 5 | Total Lease Area (Ha) with | Forest: NIL | | |
| | breakup of Non-forest and | Non-Forest: 722.834 Ha. | | |
| - | forest land | Total Lease Area: 722.834 Ha. | | |
| 6 | | 38MPR28018 | | |
| 1 | IBM Registration Number | IBM/441/2011 | | |
| 0 | Under rule 45 of MCDR, 1988 | | | |
| 0 | Name of the lessee, Address, | Address (P" Wing Abura Contro | | |
| | priorie, errait and fax fulliber | 2nd floor, Mahakali Caves Road | | |
| | | Andheri (F) Mumbai 400093 | | |
| | | Fax No \cdot +91 (0) 22 - 66928109 | | |
| | | Phone No $+91(0)$ 22 - 66917800 | | |
| | | Email - aiit.ostwal@aditvabirla.com | | |
| 9 | Village | Rawan | | |
| 10 | Taluka / Mandal / District | Simga, BalodaBazar Bhatapara | | |
| 11 | State | Chhattisgarh | | |
| 12 | Post office & PIN | Simga, Pin Code: 493196 | | |
| 13 | Nearest police station | Suhela | | |
| 14 | Nearest Railway station | Bhatapara | | |
| 15 | Date of Grant of Mining | 04/12/1993 to 03/12/2013 (20 years) | | |
| | Lease | | | |
| 16 | Date of Execution | 04/12/1993 | | |
| 17 | Date of opening of Mine | 05/02/1994 | | |
| 18 | Date of first Renewal, if | As per section 8A of MMDR Amendment Act, 2015, | | |
| | applicable and its period & | lease period has been extended to fifty years i.e. | | |
| | expiry | Trom 04/42/2012 to 02/42/2012 (20 years) | | |
| | | 04/12/2013 to 03/12/2043 (30 years) | | |
| | | Supplementary lease agreement for extended period | | |
| | | has been made on 31/03/2016 | | |
| 19 | Date of second Renewal if | Not applicable | | |
| | applicable and its period & | | | |
| | expiry | | | |
| 20 | Date of submission of | Not applicable | | |
| | renewal application if Mining | | | |
| | Operations are continuing | | | |
| | under deemed extension | | | |
| 21 | Name of the Nominated | Shri K. C. Jhanwar, Deputy Managing Director | | |
| | Owner with Address, phone, | 'B" Wing, Ahura Centre, | | |
| | email, fax number and date | 1st Floor, Mahakali Caves Road, | | |
| | of appointment | Andheri (E), Mumbai 400093 | | |
| | | Fax No.: +91 (U) 22 - 66928109 | | |
| | | Filone NO.: +91 (U) 22 - 0091/800 | | |
| 1 | | | | |

| | | Date of Appointment: 19/10/2018 | | |
|----|-------------------------------|--|--|--|
| 22 | Name of the Mine Agent with | Shri Kushal Chandra Jain, Vice President | | |
| | Address, phone, email, fax | UltraTech Cement limited. | | |
| | number and date of | (Unit: Rawan Cement Works) | | |
| | appointment | Rawan Jhinan Limestone Mine | | |
| | appointment | $P \cap Grasim Vibar Pawan$ | | |
| | | P.O. Glasilli Villai, Nawali District: Balodabazar Bhatanara (Chhattisgarh) | | |
| | | District. Dalouabazar-Dilatapara (Crinallisyari) | | |
| | | Phone: 101 (0) 7726 200217 to 220 | | |
| | | Phone: +91 (0) 7720 - 288217 to 220 | | |
| | | Mobile: +91 (0) 9904201127 | | |
| | | Fax: +91 (0) 7726 – 288215 | | |
| | | Email: kushal.jain@adityabirla.com | | |
| | | Date of Appointment: 28/11/2017 | | |
| 23 | Name of the Mines Manager | Shri Mayank Saini, AGM (Mines Operation) | | |
| | with Address, phone, email, | UltraTech Cement limited, | | |
| | fax number and date of | (Unit: Rawan Cement Works) | | |
| | appointment in mines | Rawan Jhipan Limestone Mine, | | |
| | | P.O. Grasim Vihar, Rawan | | |
| | | District: Balodabazar-Bhatapara (Chhattisgarh) | | |
| | | Pin Code: 493 196 | | |
| | | Phone: +91 (0) 7726 – 288217 to 220 | | |
| | | Mobile: +91 (0) 9669074604 | | |
| | | Fax: +91 (0) 7726 – 288215 | | |
| | | Email: mayank.saini@adityabirla.com | | |
| | | Date of Appointment: 06/05/2018 | | |
| 24 | Name of the Mining | Shri Mayank Saini, AGM (Mines Operation) | | |
| | Engineer, Qualification and | Qualification: B. E. (Mining) | | |
| | total experience with | Experience: +15 Years | | |
| | Address, phone, email, fax | UltraTech Cement limited. | | |
| | number and date of | (Unit: Rawan Cement Works) | | |
| | appointment in mine | Rawan Jhipan Limestone Mine. | | |
| | | P O Grasim Vihar Rawan | | |
| | | District: Balodabazar-Bhatapara (Chhattisgarh) | | |
| | | Pin Code: 493 196 | | |
| | | Phone: $\pm 91 (0) 7726 - 288217 \text{ to } 220$ | | |
| | | Mobile: $+91(0)$ 9669074604 | | |
| | | Fax: $+91(0)$ 7726 - 288215 | | |
| | | Fmail: mayank saini@adityahirla.com | | |
| | | Date of Appointment: 01/11/2018 | | |
| 25 | Whether Geologist and | Shri Kamlesh Kumar Chandrakar Manager (Planning | | |
| 23 | Mining Engineer appointed in | | | |
| | minute Engineer appointed in | Qualification: M. Toch. (Applied Goology) | | |
| | approving out their duties as | Superionae: +10 Vaara | | |
| | carrying out their duties as | Experience. + 10 Years | | |
| | | Ultratech Cement Marka) | | |
| | | (Unit. Rawan Cement Works) | | |
| | | Rawall Jilipall Lilliestone Wille, | | |
| | | F.U. GIASIIII VIIIAI, KAWAII District: Deledebozer Distances (Obbettiererb) | | |
| | | District: Balouabazar-Bhatapara (Chhattisgarn) | | |
| | | Pin Code: 493 196 | | |
| | | Phone: +91 (0) //26 – 28821/ to 220 | | |
| | | IVIODIIE: +91 (U) 99///01632 | | |
| | | Fax: +91 (0) 7726 – 288215 | | |
| | | Email: k.chandrakar@adityabirla.com | | |
| | | Date of Appointment: 30/05/2018 | | |
| 26 | Date of Approval of Mining | Mining Plan approved vide letter no. | | |
| | Plan/Modified Mining Plan | RAP/LST/MPLN-283/NGP Nagpur dated 22/06/1993 | | |

| | with five-year period and specific condition in approval letter, if any. | Period: 1993-1994 to 1997-98 Modified Mining Plan approved vide letter no. 314(3)95-MCCM(C)/MP-11 Nagpur dated 02/12/1996 Proposal Period: 1996-97 to 1997-98 Mining Plan approved vide letter no. 314(3)/2012/MCCM(CZ)MP/33 Nagpur dated 14/10/2013 Proposal Period: 2013-14 to 2017-18 Modified Mining Plan approved vide letter no. BBZR/LST/MPLN-1119/2017-RPR Raipur dated 17/11/2017 Proposal Period: 2018-19 to 2022-23 |
|----|---|---|
| 27 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | 1st Scheme of Mining approved vide letter no. 314(3)/96-MCCM(C)/MP/Scheme-15 Nagpur dated 18/08/1999 Proposal Period: 1999-2000 to 2003-04 Modified Scheme of Mining approved vide letter no. 314(3)/2003-MCCM(C)/S-10 Nagpur dated 10/11/2003 Proposal Period: 2003-04 2nd Scheme of Mining approved vide letter no. 314(3)/2004-MCCM(C)/S-3 Nagpur dated 04/11/2004 Proposal Period: 2004-05 to 2008-09 Modified Scheme of Mining approved vide letter no. 314(3)/2006-MCCM(CZ)/S-22 Nagpur dated 24/05/2007 Proposal Period: 2007-08 to 2008-09 3rd Scheme of Mining approved vide letter no. 314(3)/2006-MCCM(CZ)/S-30 Nagpur dated 21/05/2009 Proposal Period: 2009-10 to 2013-14 Modified Scheme of Mining approved vide letter no. 314(3)/2009-MCCM(CZ)/MP/MS/PMCP-16 Nagpur dated 04/12/2009 Proposal Period: 2009-10 to 2013-14 Modified Scheme of Mining approved vide letter no. 314(3)/2009-MCCM(CZ)/MP/MS/PMCP-16 Nagpur dated 04/12/2009 Proposal Period: 2009-10 to 2013-14 Modified Scheme of Mining approved vide letter no. 314(3)/2009-MCCM(CZ)/MP/MS/PMCP-16 Nagpur dated 04/12/2009 Proposal Period: 2009-10 to 2013-14 Modified Scheme of Mining approved vide letter no. 314(3)/2009-MCCM(CZ)/MP/MS/PMCP-31 Nagpur dated 06/01/2012 |
| 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 7.5 Million Tonnes Per Annum obtained from Ministry of Environment & Forest vide letter no. J0-11015/17/2009-IA.II(M) New Delhi 29/06/2011. Valid up to 03/12/2043 |
| 33 | Status of Financial Assurance as per rule 27 of MCDR, 2017 | RS. 9,39,00,000/- (Nine Crore Thirty Nine Lakhs Only) vide BG No. 047GM01171370002 dated 10/11/2017 Validity: 10/11/2017 to 31/03/2023 |

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 F.Y. 2018- 19 | 16 nos. of boreholes have been drilled with cumulative depth of 1400 meters. | - |
| 1b | Exploration over lease area for Geological axis 1 or 2. | -do- | Under G1 Category: 695.841 Ha Under G2 category: 26.993 Ha Under G3 category: NIL Ha Under G4 Category: NIL Ha Non- Mineralised: NIL Ha | - |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | Not mentioned in the approved document. | M/s Central Drilling Associates Expenditure: Rs. 2837904.00 | - |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | No exploration has been proposed during F.Y. 2018- 19 | Under G1 Category: 695.841 Ha Under G2 category: 26.993 Ha Under G3 category: NIL Ha Under G4 Category: NIL Ha Non- Mineralised: NIL Ha | _ |
| 1e | Balance reserves as on 01.04.2019 (in Million Tonnes) | Under (111): 140.27 Million Tonnes Under (122): 10.90 Million Tonnes Under (122): 65.52 Million Tonnes Under (211): 65.52 Million Tonnes Under (222): 5.60 Million Tonnes | Under (111): 140.79 Million Tonnes Under (122): 10.90 Million Tonnes Under (122): 65.52 Million Tonnes Under (211): 65.52 Million Tonnes Under (222): 5.60 Million Tonnes | - |
| 1f | General remarks of inspecting officer on geology, exploration etc. | NIL | | |

2.0 Development

| SN | Item | Proposals | Actual work | Remarks |
|----|------------------------------|--------------------|----------------------|---------|
| 2a | Location of development | 2018-19: In | 2018-19: In between | - |
| | w.r.t. lease area (Range in | between UTM co- | UTM co-ordinates | |
| | UTM/Local Coordinate/Plot | ordinates | N2384166 to | |
| | No./Location) | N2384166 to | N2386137 and | |
| | | N2386137 and | E601776 to | |
| | | E601776 to | E603305 | |
| | | E603305 | | |
| 2b | Separate benches in | Topsoil: 01 no. | Topsoil: 01 no. | - |
| | topsoil, overburden and | OB/Waste: 01 no. | OB/Waste: 01 no. | |
| | mineral (Rule 13) | Ore/Mineral: 05 | Ore/Mineral: 05 nos. | |
| | | nos. | | |
| 2c | Stripping ratio or ore to OB | 1:0.11 | 1: 0.059 | - |
| | ratio | | | |
| 2d | Quantity of topsoil | 22279 CuM | 120968 CuM | - |
| | generation in m3 | | | |
| 2e | Quantity of overburden | 842372 CuM | 409446 CuM | - |
| | generation in m3 | | | |
| 2f | General remarks of | | | |
| | inspecting officer on | NIL | | |
| | 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 | 7425000.00 Metric Tonnes | 6899169.00 Metric Tonnes | - |
| 3c | Recovery of salable/usable mineral from ROM production | 99% | 99% | - |
| 3d | Quantity of mineral reject generation | 60000.00 Metric Tonnes | 45872.00 Metric Tonnes | - |
| Зе | Grade of mineral reject generation and threshold value declared | CaO: 26.8% MgO: 1.29% Fe2O3: 7.43% SiO2: 35.29% | CaO: 26.8% MgO: 1.29% Fe2O3: 7.43% SiO2: 35.29% | Incorrect nomenclat ure has been done. The grade of Mineral Reject is below the threshold value of limestone. |
| 3f | Quantity of sub-grade mineral generation | 15000.00 Metric Tonnes | 139018.00 Metric Tonnes | - |
| 3g | Grade of sub-grade mineral generation | CaO: 36% to below 42% | CaO: 34% to below 42% | - |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised Crushing and Screening. | Mechanised Crushing and Screening. | - |

| 0. | | | | |
|----|-----------------------------|------------------------|----------------------------|---|
| 31 | Any analysis or | No beneficiation | Not applicable | - |
| | beneficiation study | study has been | | |
| | proposed & carried out for | proposed in the | | |
| | sub-grade mineral and | approved | | |
| | reject | document during | | |
| | -3 | the plan period | | |
| 3i | Provision of drilling & | Dia: 115 mm to | Dia: 115 mm to 152 | |
| J | blooting in minoral banches | 150 mm | | - |
| | blasting in mineral benches | | | |
| | | Spacing: 6.5 m | Spacing: 6.5 m | |
| | | Burden: 4.0 m | Burden: 4.0 m | |
| | | Depth: 8.0 m | Depth: 8.0 m | |
| 3k | Provision of mining | 1. Hydraulic | 1. Hydraulic Shovel | - |
| | machineries in mineral | Shovel TATA | TATA EX1200 03 | |
| | benches | FX1200 03 | nos with 6.5 | |
| | | nos with 6.5 | CuM bucket | |
| | | CuM bucket | capacity | |
| | | | 2 Hydraulia Shaval | |
| | | | | |
| | | | | |
| | | Snovel L & T | nos. with 6.5 | |
| | | CK300 03 | CuM bucket | |
| | | nos. with 6.5 | capacity | |
| | | CuM bucket | 3. Hydraulic Back | |
| | | capacity | Hoe L & T | |
| | | 3. Hydraulic | CK300 02 nos. | |
| | | Back Hoe I & | with 3.2 CuM | |
| | | T CK300 02 | bucket capacity | |
| | | nos with 3.2 | | |
| | | CuM buokot | Hitaabi EV 600 | |
| | | | | |
| | | | US nos. With 35 | |
| | | 4. Dumper TATA | Metric Tonnes | |
| | | Hitachi EX | capacity | |
| | | 600 05 nos. | 5. Dumper CAT 773 | |
| | | with 35 Metric | E 11 nos. with 60 | |
| | | Tonnes | Metric Tonnes | |
| | | capacity | capacity | |
| | | 5 Dumper CAT | 6 Wagon Drill Atlas | |
| | | 773 = 11 nos | | |
| | | with 60 Matria | 01 no with 150 | |
| | | | mm die eeneeitu | |
| | | Tonnes | | |
| | | | 1. vvagon Drill Atlas | |
| | | 6. Wagon Drill | Copco D40 01 | |
| | | Atlas Copco | no. with 115 mm | |
| | | ROCL-6 01 | dia capacity | |
| | | no. with 152 | 8. Wagon Drill Atlas | |
| | | mm dia | Copco idm 30, 01 | |
| | | capacity | no. with 152 mm | |
| | | 7. Wagon Drill | dia capacity | |
| | | Atlas Conco | 9. Wagon Drill Atlas | |
| | | D40 01 no | Conco ICM 260 | |
| | | with 115 mm | 01 no with 115 | |
| | | | mm dia consolity | |
| | | | | |
| | | o. vvagon Drill | | |
| | | Atlas Copco | | |
| | | idm 30, 01 no. | | |
| | | with 152 mm | | |
| | | dia capacity | | |

| | | 9. Wagon Drill | | |
|----|-------------------------------|--------------------|-----------------------|---|
| | | Atlas Copco | | |
| | | ICM 260 01 | | |
| | | no. with 115 | | |
| | | mm dia | | |
| | | capacity | | |
| 31 | Whether height of benches | Bench Height | Bench Height | - |
| | in overburden and mineral | Ore/Mineral: 8.0 | Ore/Mineral: 8.0 to | |
| | suitable for method of | to 10.0 m. | 10.0 m. | |
| | mining proposed in | Topsoil: 3.0 m to | Topsoil: 3.0 m to 4.0 | |
| | MP/SOM | 4.0 m | m | |
| | | Waste/OB: 3.0 m | Waste/OB: 3.0 m to | |
| | | to 4.0 m | 4.0 m | |
| | | Bench Width | Bench Width | |
| | | Ore/Mineral: 30.0 | Ore/Mineral: 30.0 to | |
| | | to 35.0 m | 35.0 m | |
| | | OB/Waste: 20.0 | OB/Waste: 20.0 m to | |
| | | m to 30.0 m | 30.0 m | |
| 3m | Total area covered | Pit: 265.00 Ha. up | Pit: 180.100 Ha. up | - |
| | under excavation/pits | to end of MMP | to end of F.Y. 2018- | |
| | | Period i.e. up to | 19 | |
| | | 2022-23 | | |
| 3n | Ore to OB ratio for the | 1:0.11 | 1: 0.059 | |
| | pit/mine during the year | | | |
| 30 | Total area put in use under | Pit- 265.00 Ha. | Pit- 180.100 Ha. | - |
| | different heads at the end of | Waste/reject- | Waste/reject- 27.420 | |
| | year | 39.804 Ha. | Ha. | |
| | | Others- 8.0 Ha. | Others- 11.68 Ha. | |
| Зр | Production of ROM mineral | Yr- 2014-15: | Yr- 2014-15: | - |
| _ | during last five-year period, | 7500000.00 | 5132648.00 Metric | |
| | as applicable (in Metric | Metric Tonnes | Tonnes | |
| | Tonnes) | Yr- 2015-16: | Yr- 2015-16: | |
| | | 7500000.00 | 5773563.00 Metric | |
| | | Metric Tonnes | Tonnes | |
| | | Yr- 2016-17: | Yr- 2016-17: | |
| | | 7500000.00 | 6298723.00 Metric | |
| | | Metric Tonnes | Tonnes | |
| | | Yr- 2017-18: | Yr- 2017-18: | |
| | | 7500000.00 | 6386548.00 Metric | |
| | | Metric Tonnes | Tonnes | |
| | | Yr- 2018-19: | Yr- 2018-19: | |
| | | 7425000.00 | 6899169.00 Metric | |
| | | Metric Tonnes | Tonnes | |
| 3q | General remarks of | | 1 | 1 |
| ' | inspecting officer on method | NIL | | |
| | of mining etc. | | | |

4.0 Solid Waste Management-Dumping

| SN | Item | Proposals | Actual work | Remarks |
|----|-----------------------|--------------------|-----------------------|-----------|
| 4a | Separate dumping of | Separate dumping | A certain quantity of | Deviation |
| | topsoil, OB & mineral | of topsoil, OB & | limestone and over | has been |
| | reject (Rule 36, 37) | mineral reject has | size (+10 mm) | pointed |
| | - | been proposed in | boulders of | out. |
| | | the approved | limestone has been | |
| | | document. | dumped along with | |

| | | | waste. | |
|----------|--|---|--|----------------------------|
| 4b | Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location) | Topsoil- Along Lease boundary OB/waste: In between UTM co- ordinates (1) N2384467 to N2384142 and E603579 to E602985 (2) N2385323 to N2385523 and E602093 to E602563 Mineral Reject: In between UTM co- ordinates N2383966 to N2384188 and E602438 to | Topsoil- Along Lease boundary OB/waste: In between UTM co- ordinates (1) N2384467 to N2384142 and E603579 to E602985 (2) N2385323 to N2385523 and E602093 to E602563 Mineral Reject: In between UTM co- ordinates N2383966 to to N2384188 and E602438 to E602773 | -do- |
| 4c | Number of dumps within lease area and outside lease area | 06 nos. | 06 nos. | - |
| 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 | 03 nos. | 03 nos. | |
| 4f | Number of dead dumps | 03 nos. | 03 nos. | These are old dumps. |
| 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 with waste dumps. | Garland drain along with waste dumps has been constructed. | - |
| 4i | Length of Retaining wall or garland drain all along dump | Length of Retaining wall and garland drain has not been mentioned in the approved document. | Approx 125.0 meters garland drain has been constructed. | |
| 4j 4k | Number of settling ponds Specific comments of | Proposal has not been given in the approved document for construction of settling ponds. NIL | Not applicable | |
| 1 | inspecting officer | | | |

| | 5.0 Solid Waste Management-Backfilling | | | | |
|----------------------------|--|----------------------------|-----------------------|------|--|
| SN Item | | | Proposals | Actu | |
| 5a Status on part or full | | Status on part or full | Proposal for full | Not | |
| extraction of mineral from | | extraction of mineral from | extraction of mineral | on d | |

E A Salid Wasta M + Dockfilli

| SN | Item | Proposals | Actual work | Remarks |
|----|---|--|--|---|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Proposal for full extraction of mineral from mined out area before starting backfilling has been given in the approved document during conceptual stage. | Not applicable as on date. | - |
| 5b | Area under backfilling of mined out area | Proposal has not been given 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. | Being done as per proposal. | - |
| 5d | Total area fully reclaimed & rehabilitated | Proposal for reclamation and rehabilitation has not been given in the approved document. | Area not matured for reclamation and rehabilitation. | 2.68 Ha. area has been fully reclaime d and rehabilita ted during previous years. |
| 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. | Yes, submitted on time in the prescribed format. | The given information has been cross verified. | _ |
| 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 | NIL 1.23 Ha. 2500 nos. 5587 nos. | NIL 1.23 Ha. 5000 nos. 8640 nos. | Plantatio n has been done in between existing plantatio n to increase survival |

| | v) Any other specific method of rehabilitation | By plantation | By plantation | rate of the |
|----|---|--|--------------------------------|-------------|
| | vi) Cost incurred on watch & care during the year | Rs. 182000/- | No record maintained. | plants. |
| 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. | Not applicable. | - |
| 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. | Not applicable. | - |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone) | Proposal has been in the approved document for regular monitoring of environmental parameters at core and 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 | ROM Mineral will directly be dispatched from the lease area to the captive plant after mechanised crushing and screening. | Being done as per proposal. | - |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Mechanised crushing and screening. | Mechanised crushing and screening. | |
| 7c | Different grade of mineral sorted out at mines | Mechanised sorting has been proposed in the approved document before dispatch of the ROM to the captive plant. | Being done as per proposal. | - |
| 7d | Any beneficiation process at mines | No beneficiation process has been | Not applicable. | - |

| | | proposed in the approved document during plan period. |
|----|---|---|
| 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 its utilization | 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. | Being done as per proposal. | - |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 37) | Separate dumping of Topsoil, Overburden, Mineral, Mineral Sub- grade and Mineral reject have been proposed in the approved document. | A certain quantity of limestone and over size (+10 mm) boulders of limestone has been dumped along with waste. | 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 not been given in the approved document for restoration of land during plan period. | Not applicable. | - |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Proposal has not been given in the approved document for reclamation and rehabilitation in the mined out area. | Area not matured for reclamation and rehabilitation. | - |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 44) | 2018-19: 2500 nos. saplings will be planted. | 2018-19: 5000 nos. of saplings has been planted. | - |
| 8g | Survival rate | Not mentioned in the approved document. | Approx 70% | - |
| 8h | Water sprinkling on roads to control airborne dust | Proposal has been given in the approved document for water sprinkling on roads through water tanker. | Being done 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 – September 2019 A.R. submitted upto- F.Y. 2018-19 | | - |
| | | Γ | | · · · · · · · · · · · · · · · · · · · |
| 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 | Mining Engineer: Shri Mayank Saini Geologist: Shri Kamlesh Chandrakar Manager: Shri Mayank Saini | MiningEngineer:Shri Mayank SainiGeologist:ShriKamleshChandrakarManager:ShriMayank Saini | - |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pit- 180.100 Ha. Waste/reject- 27.420 Ha. Others- 11.68 Ha. | Pit- 180.100 Ha. Waste/reject- 27.420 Ha. Others- 11.68 Ha. | - |
| 9d | Scrutiny of Annual return on Afforestation | WithinLeaseArea: 5000 nos.OutsideLeaseArea: 490 nos. | Within Lease Area:5000 nos.OutsideLeaseArea:490 nos. | - |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | Quantity:45872.00MetricTonnesGrade:26.25%CaO | Quantity: 45872.00 Metric Tonnes Grade: 26.25% CaO | - |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Closing Stock ROM: NIL Graded Ore/Mineral: NIL | Closing Stock ROM: NIL Graded Ore/Mineral: NIL | - |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Sale Value: NIL Ex-Mine Price: Rs. 194.72 Per Metric Tonnes Cost of Production: Rs. 194.72 Per Metric Tonnes | Sale Value: NIL Ex-Mine Price: Rs. 194.72 Per Metric Tonnes Cost of Production: Rs. 194.72 Per Metric Tonnes | - |
| 9i | Scrutiny of Annual return on fixed assets | Rs. 289787204.00 | Rs. 289787204.00 | - |
| 9k | Scrutiny of Annual return | Given in the annual | As per proposal. | - |

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 Rajesh Kumar Das, Sr, ACoM, IBM, Raipur, Date of Inspection: 20/01/2019

Details of the Violations Pointed-out during Inspections:

| नियम | उल्लंघन के प्रकार का विस्तृत ब्यौरा |
|---------|---|
| Rule 14 | The overburden and waste material obtained during mining operations has been mixed with |
| (3) | Limestone and found dump with waste material. |

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya Jr. Mining Geologist Indian Bureau of Mines, Raipur Date of inspection: 19/09/2019