### **INSPECTION REPORT**

### 1.0 GENERAL

| S.No. | Particulars Particulars            | Details   |
|-------|------------------------------------|---|
| 1     | Name of the Mine                   | Gujarat Ambuja Limestone Mine (Survey No.44)  |
| 2     | Total Lease Area (Ha) with         | Non-Forest:108.9700 hectares  |
|       | breakup of Non-forest and          |   |
|       | forest land                        | Forest: Nil   |
| 3     | Mine code                          | 38GUJ2008   |
| 4     | IBM Registration Number            | IBM/447/2011  |
|       | under rule 45 of MCDR, 1988        |   |
| 5     | Name of the lessee, Address,       | M/s Ambuja Cements Limited  |
|       | phone, email and fax number        | (formally M/s Gujarat Ambuja Cements Limited) M/s Ambuja Cements Limited                                  |
|       |                                    | At & PO: Ambujanagar,   |
|       |                                    | Taluka: Kodinar   |
|       |                                    | District: Gir Somnath,  |
|       |                                    | State:Gujarat- 362 715  |
|       |                                    | Tel.: (02795) 221137, 232009  |
|       |                                    | Fax:(02795) 220328, 232032<br>e.mail id. md.office@ambujacement.com                                       |
| 6     | Village                            | Vadnagar  |
| 7     | Taluka/Mandal                      | Kodinar   |
| 8     | District                           | Gir-Somnath   |
| 9     | Pin code                           | 362 725   |
| 10    | State                              | Gujarat   |
| 11    | Post office                        | Vadnagar  |
| 12    | Nearest police station             | Kodinar   |
| 13    | Nearest Railway station            | Somnath & Veraval   |
| 14    | Date of Grant of Mining            | 10 <sup>th</sup> January, 1985  |
|       | Lease                              | (vide Letter No. MCR-1584 (G-29)GoI-14CHH   |
| 15    | Date of Execution                  | 16 April,1985   |
| 16    | Date of opening of Mine            | 30 <sup>th</sup> January, 1986  |
| 17    | Date of first Renewal, if          |   |
|       | applicable and its period &        | 15/04/2005), the ML {(108.9700ha) Survey No.44} is renewed for a period of 30 years (w.e.f. 16/04/2005 to |
|       | expiry                             | 15/04/2035) vide GOG Order No. MCR-102011-1770-CHH.1,   |
|       |                                    | dated: 02/07/2015.  |
| 18    | Date of second Renewal, if         | Not applicable.   |
|       | applicable and its period & expiry |   |
| 19    | Date of submission of              | Not Applicable.   |
|       | renewal application if Mining      |   |
|       | Operations are continuing          |   |
|       | under deemed extension             |   |
| 20    | Name of the Nominated              | Shri Ajay Kapur   |
|       | Owner with Address, phone,         | (Managing Director & CEO) M/s Ambuja Cements Ltd.   |
|       | email, fax number and date         | Elegant Business Park,  |
|       | of appointment                     | MIDC Cross Road 'B',  |
|       |                                    | Off Andheri – Kurla Road, Andheri (East),   |
|       |                                    | Mumbai-400 059.   |
|       |                                    | Tel.: 022 4066700   |
|       |                                    | Fax: - 022 30827790   |
|       |                                    | e.mail id. md.office@ambujacement.com  Date of appointment: 01/08/2013                                    |
|       |                                    | Date of appointment. 01/00/2010   |

| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment   | Shri S Ramarao M/s Ambuja Cements Limited At & PO: Ambujanagar, Taluka: Kodinar District: Gir Somnath, State:Gujarat- 362 715 Tel.: (02795) 221137, 232009 Fax: (02795) 220328, 232032 e.mail id. ramarao.sukuru@ambujacement.com Date of appointment: 01/05/2013 Rajesh Chaubey   |
|----|---|--|
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines                                       | M/s Ambuja Cements Limited At & PO: Ambujanagar, Taluka: Kodinar District: Gir Somnath, State:Gujarat- 362 715 Tel.: (02795) 237211 Fax:(02795) 220328, 232032 e.mail id. rajesh.chaubey@ambujacement.com Date of appointment: 18/08/2015  |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine  | Rajesh Chaubey M/s Ambuja Cements Limited At & PO: Ambujanagar, Taluka: Kodinar District: Gir Somnath, State:Gujarat- 362 715 Tel.: (02795) 237211 Fax:(02795) 220328, 232032 e.mail id. rajesh.chaubey@ambujacement.com Date of appointment: 18/08/2015   |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.           | Ajay Kumar Jain M/s Ambuja Cements Limited At & PO: Ambujanagar, Taluka: Kodinar District: Gir Somnath, State:Gujarat- 362 715 Tel.: (02795) 237200 Fax:(02795) 220328, 232032 e.mail id. ajayku.jain@ambujacement.com Date of appointment: 29/09/2015   |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.           | The Mining Plan alongwith Progressive Mine Closure Plan was approved vide IBM, Ajmer Letter No.682 (23) (370) /2005-Udp, dated 01-04-2005 for the renewal of Mining Lease for five years period, without any special condition.  |
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | The Scheme of Mining along with Progressive Mine Closure Plan under reference was approved vide IBM, Udaipur Letter No.682 (23) (MS-538) /2009-MCCM (N), Udp, dated 24-05-2010 for five years period, with following conditions.  (i) Submit copy of EIA – EMP (approved by MoEF) Copy of EIA-EMP Submitted accordingly.  (ii) Submit Cadastral Map on the scale of 1:3960  (iii) Submit Geo-reference Map/Plan (Prepared with the help of DGPS.  (iv) Submit soft copy of high resolution satellite image obtained from CARTOSAT-2 satellite LISS-IV sensor on the scale of cadastral map Preparation of Maps/Plans as per Conditions (ii, iii & iv) are under process. |

|    |                             | The Scheme of Mining along with Progressive Mine Closure Plan under reference was approved vide IBM, Udaipur Letter No.682 (23) (MS-538) /2009-MCCM (N), Udp, dated 13-05-2015 for five years period, without any special condition. |  |
|----|-----------------------------|--|--|
| 27 | Mineral(s) granted in lease | Limestone and Marl.  |  |
|    | and proved for mining       | Applicant intends to mine Limestone & Marl.  |  |
| 28 | Method of Mining(Opencast,  | , Opencast   |  |
|    | Underground)                |  |  |
| 29 | Category (Fully Mechanised, | Fully Mechanised   |  |
|    | Others or Manual)           |  |  |
| 30 | Captive/Non Captive         | Captive  |  |

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

| S.<br>No | Item   | Proposals<br>(2016-17) | Actual work   | Remark<br>s                                      |
|----------|--|------------------------|---|--|
| 1a       | Backlog of previous year   | The deposit has been   | The gamut of exploration carried out from 1984 to 2003, boreholes have been drilled   |  |
| 1b       | Exploration over lease area for Geological axis 1 or 2.                  | •                      | at almost every 100m grid interval to obtain data both along and across strike. First phase drilling carried out in 1984-85 includes 46 borehole with total metreageof 662.70m and <b>20 DTH holes amounting to 141.0m</b> . To increase the confidence level of the second band limestone quality as well as quantity, 782.80m of drilling in 24 boreholes were drilled in second phase of drilling in the year 1992. Additional 28 boreholes were drilled in the area as third and final phase of drilling with a cumulative metreage of 405.45m. The data generated was utilized to confirm the behaviour of second band and to increase the confidence level of reserve reassessment and the drilling was taken up during May-June, 2003. | Level of Explorati on:G1- (Detailed Exploration) |
| 1c       | Exploration Agency<br>& Expenditure in<br>lakh Rupees during<br>the year | NA                     | Exploration Agency: The State Directorate of Geology and Mining has carried out preliminary prospecting work on regional scale in Junagadh region. Detailed prospecting was done by Fortune Exploration (Goa) in 1984. Subsequent explorations for infilling data were carried out by Mineral Resource department of M/s Ambuja Cements Limited, Ambujanagar with help of following agencies. Shivraj Diamond Core Drilling, Saurashtra University Road, Opp. PanchhayatNagar, Archana Park, "Nijanand Sagar" Rajkot-360005 (Gujarat).Maruti Borewell, Diamond Core Drilling Contractor, At Vishal Hadmatiya, Taluka Besan, District Junagadh (Gujarat). Expenditure:   |  |

|    |  |                              | Expenditure incurred in various prospecting operations: Rs.26,46,100/- |  |
|----|--|------------------------------|--|--|
| 1d | Balance area to be explored to bring Geological axis in 1 or 2     |                              | Total area / deposit have been adequately explored.                    |  |
| 1e | Balance reserves as on 01.04.2017 (in million tonnes)              | <b>Limestone: 111:</b> 1.284 | Marl:<br>111:4.097   |  |
|    |  | <b>121:</b> 0.77             | <b>121:</b> 0.725  |  |
| 1f | General remarks of inspecting officer on geology, exploration etc. |                              | NIL  |  |

2.0 Development

|     | 2.0 Development   |   |  |         |  |  |
|-----|---|---|--|---------|--|--|
| S.N | Item  | Proposals(2016-17)  | Actual work  | Remarks |  |  |
| Ο.  |   |   |  |         |  |  |
| 2a  | Location of development w.r.t. lease area   | Location-V (N19.20 – N22.60 & E17.50 – E21). Production of Limestone (Second Band): Production of Limestone shall be achieved by formation of benches at 13.50 – 9.10mRL. Production of Marl: Production of Marl shall be achieved by formation of benches at 12.50 – 10.90mRL. | achieved due to- (i) Part of the area (working pits) proposed in second to fifth years periods were submerged under collected rain water. Pit No5 {Grid lines N10 to N13 & E22 to E23)} are developed all- around and levelled |         |  |  |
| 2b  | Separate benches in topsoil, overburden and mineral (Rule 15)                           | Not Proposed.   | Entire proposed area is limestone/Marl.  |         |  |  |
| 2c  | Stripping ratio or ore to OB ratio  | Not proposed  | NIL  |         |  |  |
| 2d  | Quantity of topsoil generation in m3  | Not proposed  | NIL  |         |  |  |
| 2e  | Quantity of overburden generation in m3   | Not proposed  | NIL  |         |  |  |
| 2f  | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. |   |  |         |  |  |

3.0 Exploitation

| OIO EXPIDITATION |  |                  |   |        |  |
|------------------|--|------------------|---|--------|--|
| S.N              | Item                                   | Proposals (2016- | Actual work   | Remark |  |
| Ο.               |  | 17)              |   | s      |  |
| 3a               | Number of pits proposed for production | ,                | Lagging in production achievement due to:- (i) Part of the area (working pits) propose under submergence. |        |  |

|      | T                                  | T   |  |  |
|------|------------------------------------|---|--|--|
|      |                                    |   | Pit No5 {between grid lines N10 to N13 |  |
|      |                                    |   | & E22 to E23)} are                     |  |
|      |                                    |   | developed all-around                   |  |
|      |                                    |   |  |  |
|      |                                    |   | and levelled down up                   |  |
|      |                                    |   | to 12.00 to 13.00mRL                   |  |
|      |                                    |   | for exploitation of Lst                |  |
|      |                                    |   | & Marl.                                |  |
| 3b   | Quantity of ROM mineral            | Limestone: 609400                         | Limestone: 126378                      |  |
|      | production proposed (in            | Marl: 49960 tonnes                        | Marl: 24668                            |  |
|      | tonnes)                            |   |  |  |
| 3c   | Recovery of saleable / usable      | Estimated recovery                        | Done as proposed                       |  |
|      | mineral from ROM production        | of saleable/useable                       | Г                                      |  |
|      | Timioral monitream production      | mineral from ROM is                       |  |  |
|      |                                    | 100%                                      |  |  |
| 3d   | Quantity of mineral reject         | Not proposed                              | Entire L/s & Marl is                   |  |
| Ju   |                                    | Not proposed                              |  |  |
| 20   | generation Crade of mineral reject | Not proposed                              | being utilised.  Entire L/s & Marl is  |  |
| 3e   | Grade of mineral reject            | Not proposed                              |  |  |
|      | generation and threshold           |   | being utilised.                        |  |
|      | value declared                     | N   | <b>F</b> ( 1                           |  |
| 3f   | Quantity of sub-grade mineral      | Not proposed                              | Entire L/s & Marl is                   |  |
|      | generation                         |   | being utilised.                        |  |
| 3g   | Grade of sub-grade mineral         | Not proposed                              | Entire L/s & Marl is                   |  |
|      | generation                         |   | being utilised.                        |  |
|      |                                    |   |  |  |
| 3h   | Manual / Mechanised method         | Mechanised                                | Mechanised                             |  |
|      | adopted for segregating from       |   |  |  |
|      | ROM                                |   |  |  |
| 3i   | Any analysis or beneficiation      | Not Proposed                              | NIL                                    |  |
|      | study proposed & carried out       |   |  |  |
|      | for sub-grade mineral and          |   |  |  |
|      | reject.                            |   |  |  |
|      | 1.0,000.                           |   |  |  |
| 3j   | Provision of drilling & blasting   | Not proposed                              | NIL                                    |  |
| ارت  | in mineral benches                 | 140t proposcu                             | 1416                                   |  |
| 3k   | Provision of mining                | Surface Miner (200                        | Proposed HEMM is                       |  |
| JK.  |                                    | ,   | I                                      |  |
|      |                                    | , ,                                       | using.                                 |  |
|      | benches                            | Hydraulic Excavator                       |  |  |
|      |                                    | (0.96 m <sup>3</sup> & 4.0 m <sup>3</sup> |  |  |
|      |                                    | bucket), Front End                        |  |  |
|      |                                    | Loader (3.5 to 5.0                        |  |  |
|      |                                    | m <sup>3</sup> ) Tippers, MAN             |  |  |
|      |                                    | Tip-tailors & AMW                         |  |  |
|      |                                    | (30 tonnes)                               |  |  |
|      |                                    | respectively.                             |  |  |
| 31   | Whether height of benches in       | Not Proposed                              | Bench height                           |  |
|      | overburden and mineral             | '   | maintained.                            |  |
|      | suitable for method of mining      |   |  |  |
|      | proposed in MP/SOM                 |   |  |  |
| 3m   | Total area covered                 | Out of 88.23ha total                      | During 2016-17 part                    |  |
| 0111 | under excavation/pits              | excavated area, part                      | ,                                      |  |
|      | under excavation/pits              | of the area of Pit                        |  |  |
|      |                                    |   |  |  |
|      |                                    | No.1 & 5 was                              | utilised.                              |  |
| Ì    |                                    | proposed during                           |  |  |

|    |                                  | 2016-17.  |                          |             |
|----|----------------------------------|---|--------------------------|-------------|
| 3n | Ore to OB ratio for the          | Not Proposed  | NIL                      |             |
|    | pit/mine during the year         |   |                          |             |
| 30 | Total area put in use under      | Pit-90.6296ha   | Pit-88.2296ha            |             |
|    | different heads at the end of    | Waste/reject-   | Waste/reject-0.000ha     |             |
|    | year                             | 0.000ha   | Others-20.7404ha         |             |
|    |                                  | Others-18.3404ha  |                          |             |
| 3р | Production of ROM mineral        | Proposal  | Compliance Position      |             |
|    | during last five-year period,    | (Limestone):  | (Limestone):             |             |
|    | as applicable                    | Yr-(2010-11)=0.468  | Yr-(2010-11)=0.0282      |             |
|    |                                  | Yr- (2011-12)=0.440   | Yr- (2011-12)=0.4468     |             |
|    | (in million tonnes)              | Yr- (2012-13)=0.526   | Yr- (2012-13)=0.5234     |             |
|    |                                  | Yr-(2013-14)=0.628  | Yr- (2013-14)=0.9047     |             |
|    |                                  | Yr- (2014-15)=0.354   | Yr- (2014-15)=0.5487     |             |
|    |                                  | Total:2.4160  | Total:2.4518             |             |
|    |                                  | Proposal (Marl):  | Compliance (Marl):       |             |
|    |                                  | Yr-(2010-11)=0.367  | Yr-(2010-11)=0.0897      |             |
|    |                                  | Yr- (2011-12)=0.370   | Yr- (2011-12)=0.3573     |             |
|    |                                  | Yr- (2012-13)=0.323   | Yr- (2012-13)=0.3229     |             |
|    |                                  | Yr- (2013-14)=0.450   | Yr-(2013-14)=0.2468      |             |
|    |                                  | Yr- (2014-15)=0.243   | Yr- (2014-15)=0.0102     |             |
|    |                                  | Total:1.7530  | Total:1.6484             |             |
|    |                                  |   | ation period (2010-11 to |             |
|    |                                  |   | k 94% Marl is achieved a | against the |
|    |                                  | target set in the approved mining plan.                     |                          |             |
|    |                                  | Due to requirement of high grade Limestone, more            |                          |             |
|    |                                  | production $\{0.0358 \text{ million tonnes } (1.5\%)\}$ was |                          |             |
|    |                                  | achieved than propo   | sal made under approv    | ed Plan.    |
| 3q | General remarks of inspecting    |   |                          |             |
|    | officer on method of mining etc. |   |                          |             |

4.0 Solid Waste Management-Dumping

| S. | Item  | Proposals (2016-17) | Actual work    | Remarks            |
|----|---|---------------------|----------------|--------------------|
| No |   |                     |                |                    |
|    |   |                     |                |                    |
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)    | Not Proposed        | NIL            | No OB/MR generated |
| 4b | Location of topsoil, OB & mineral reject dumps                    | Not Proposed        | NIL            |                    |
| 4c | Number of dumps within lease area and outside lease area          | Not Proposed        | NIL            |                    |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)             | Not applicable      | Not applicable |                    |
| 4e | Number of active & alive dumps                                    | Not applicable      | NIL            |                    |
| 4f | Number of dead dumps  | NA                  | Not applicable |                    |
| 4g | Number of dumps stabilized  | NA                  | NIL            |                    |
| 4h | Whether Retaining wall or garland drain all along dumps are there | NA                  | Not applicable |                    |
| 4i | Length of Retaining wall or                                       | NA                  | NIL            |                    |

|    | garland drain all along dump            |     |                |
|----|---|-----|----------------|
| 4j | Number of settling ponds                | NA  | Not applicable |
| 4k | Specific comments of inspecting officer | NIL |                |

**5.0 Solid Waste Management-Backfilling** 

| S. | Item                             | Proposals (2016-17)     | Actual work          | Remarks     |
|----|----------------------------------|-------------------------|----------------------|-------------|
| No |                                  |                         |                      |             |
|    |                                  |                         |                      |             |
| 5a | Status on part or full           | NA                      | NIL                  |             |
|    | extraction of mineral from       |                         |                      |             |
|    | mined out area before            |                         |                      |             |
|    | starting backfilling             |                         |                      |             |
| 5b | Area under backfilling of        | Not proposed            | No action was        |             |
|    | mined out area                   |                         | required.            |             |
| 5c | Concurrent use of topsoil for    | Not proposed            | NIL                  |             |
|    | restoration or rehabilitation of |                         |                      |             |
|    | mined out area (Rule 32)         |                         |                      |             |
| 5d | Total area fully reclaimed &     | NA                      | NIL                  |             |
|    | rehabilitated                    |                         |                      |             |
| 5e | General remarks of               | It is anticipated that  |                      |             |
|    | inspecting officer on            | mined out Pits shall    | be reclaimed by mear | ns of Agro- |
|    | backfilling, reclamation etc     | farming/water reservoir | •                    |             |

**6.0 Progressive Mine Closure Plan** 

|      | .0 Progressive Mine Closure Plan   |  |                         |         |  |
|------|--|--|-------------------------|---------|--|
| S.   | Item   | Proposals (2016-   | Actual work             | Remarks |  |
| No   |  | 17)  |                         |         |  |
|      |  | ,  |                         |         |  |
|      |  |  |                         |         |  |
| 6a   | Whether Annual report on   | Progressive Mine   | Protective &            |         |  |
|      | PMCP submitted on time and   | Closure Plan is  | rehabilitative work     |         |  |
|      | correctly - Rule 23E (2).  | furnished in tabular   | carried out as          |         |  |
|      | * * *  |  |                         |         |  |
|      | Details should be given in the   | ionn under item-6.3  |                         |         |  |
|      | format as given in item No. 8.3  |  | approved Mine           |         |  |
|      | of PMCP (approved on last  |  | Closure Plan is         |         |  |
|      | occasion.  |  | submitted in stipulated |         |  |
|      |  |  | time bound manner.      |         |  |
| O.I. | Managara de la composición del composición de la composición de la composición de la composición de la composición del composición de la c | D  |                         |         |  |
| 6b   | Management of worked/mined   | Proposal:  | Actual:                 |         |  |
|      | out benches  | (i) Nil  | (i) Nil                 |         |  |
|      | i) Area available for  | (ii) 3.0000 ha   | (ii) 1.2539 ha          |         |  |
|      | rehabilitation (ha)  | (iii) 3000   | (iii) 1938              |         |  |
|      | ii) Afforestation done (ha)  | (iv) 16357   | (iv) 15295              |         |  |
|      | ,  | The second secon |                         |         |  |
|      | iii) No. of saplings planted   | ` '  | (v) Nil                 |         |  |
|      | during the year  | (vi) Rs.3,30,000/-   | (vi) Rs. 32.013/- lac   |         |  |
|      | iv) Cumulative no. of plants   |  | including site          |         |  |
|      | v) Any other specific method of  |  | restoration, watch &    |         |  |
|      | rehabilitation   |  | care                    |         |  |
|      |  |  | Care                    |         |  |
|      | vi) Cost incurred on watch &   |  |                         |         |  |
|      | care during the year.  |  |                         |         |  |

| 6c | Compliance on reclamation          | No Proposal | No action | was |  |
|----|------------------------------------|-------------|-----------|-----|--|
|    | and rehabilitation by backfilling  |             | required. |     |  |
|    | i) Voids available for backfilling |             | -         |     |  |
|    | (LXBXD)                            |             |           |     |  |
|    | ii) Void filled by waste/tailings  |             |           |     |  |
|    | iii) Afforestation on the          |             |           |     |  |
|    | backfilled area                    |             |           |     |  |
|    | iv) Rehabilitation by making       |             |           |     |  |
|    | water reservoir                    |             |           |     |  |
|    | v) Any other specific means        |             |           |     |  |

| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Methof of rehabilitation | No Proposal   | No action was required.   |
|----|--|---|---|
| 6e | Compliance of Environmental monitoring (core zone & buffer zone)   | Environment monitoring (air quality, water quality and noise level) in core zone & buffer zone shall be done by Environment Department of M/s Ambuja Cements Limited, Ambujanagar regularly every year. | Monitoring of Air & Noise level is being done regularly in core zone & buffer zone  Recurring Expenditure is Rs. 10.77 Lakh (Environment Protection & Environment Monitoring) |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive   | NIL   |   |

## 7.0 Mineral Conservation

| S.No | Item   | Proposals<br>(2016-17)                                      | Actual work   | Remarks  |
|------|--|---|---|--|
| 7a   | ROM Mineral dispatch or grade-wise sorting within lease area (in tonnes)             | Limestone: <b>6,09,400</b> Marl: 5,45,515 (from Marl Stock) | Limestone: 1,33,178<br>Marl: 78,800 (from<br>Marl stocks) | Entire ROM of limestone & marl is being utilised by proper blending. |
| 7b   | Method of grade-wise mineral sorting i.e. manual or mechanical                       | NA  | NIL   |  |
| 7c   | Different grade of mineral sorted out at mines                                       | NA  | NIL   |  |
| 7d   | Any beneficiation process at mines   | NA  | NIL   |  |
| 7e   | General remarks of inspecting officer on Mineral conservation & beneficiation issues |   |   |  |

### 8.0 Environment

| S.No. | Item   | Proposals (2016-<br>17)  | Actual work  | Remarks |
|-------|--|--|--|---------|
| 8a    | Separate removal and utilization of topsoil (Rule 32)  | Area devoid of top soil, but efforts shall be made to recover even thin layer of intercalated soil.  | It is properly implemented.  |         |
| 8b    | Concurrent use or storage of topsoil   | Topsoil shall be concurrently utilized in Plantation if any.   | Topsoil is concurrently utilized in Plantation if any.   |         |
| 8c    | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                       | No Proposal  | Not applicable   |         |
| 8d    | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use            | No Proposal  | NIL  |         |
| 8e    | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc). | No Proposal  | No action was required.  |         |
| 8f    | Baseline information on existence of plantation & additional plantation done (Rule 41)                       | 3,000 numbers of saplings over an area of 3.0 hectares. <b>Location:</b> 7.5 mtr wide statutory barrier all around the mining lease & 25m wide in the excavated area, etc. | samplings is planted over an area of 1.2539ha (Survival Rate: 60%). Cumulative: No. of sapling Planted: 15295 Total Restored area: 8.2664ha. |         |
| 8g    | Survival rate  | Survival Rate: 60%   | No. of saplings survived: <b>9177</b> (@ 60%),   |         |
| 8h    | Water sprinkling on roads to control airborne dust   | Proposals have been made for water sprinkling on haul road.  | Water sprinkling on haul road is regularly carried out.  |         |
| 8i    | General remarks of inspecting officer on aesthetic beauty in and around mines are                            |  |  |         |

# 9.0 Compliance of Rule 45

| S.No. | Item                    | COMMENTS            | Remarks                         |  |
|-------|-------------------------|---------------------|---------------------------------|--|
|       | Status of submission of | •                   | . , ,                           |  |
|       | Online Monthly and      | till date           | submission of online periodical |  |
|       | Annual returns          | A.R.submitted up to | return till date.               |  |
|       |                         | till date           |                                 |  |

| S.No. | ltem   | Details GIVEN in<br>A.R. ( 2016-17)   | Observation of<br>I/Officer /Actual<br>reported in Returns  | Remarks   |
|-------|--|---|---|---|
| 9b    | Scrutiny of Annual return<br>for information on Mining<br>Engineer, Geologist and<br>Manager           | ME & Geologist as per MCDR, 2017 is appointed & given.  |   | Party has been submitted the online                   |
| 9c    | Scrutiny of Annual return<br>on land use pattern for<br>area under pits, reclaimed<br>area, dumps etc. | Area under O/C-<br>88.23Ha, Reclaimed-<br>20.45Ha, Infrasture-<br>13.65Ha, PMC-<br>1.25Ha         |   | annual<br>return in<br>IBM<br>website on<br>19.6.2017 |
| 9d    | Scrutiny of Annual return on afforestation   | Afforestation-1938 nos., Survival-70%   | Plantation done within 7.5m of statutory barrier.           |   |
| 9e    | Scrutiny of Annual return on mineral reject generation (Grade & quantity)                              | Not Given   | Not generated,<br>entire MR/Sub grade<br>is being utilised. |   |
| 9f    | Scrutiny of Annual return<br>on ROM stock and/or<br>graded ore   | L/S-O/S 7653,<br>Dispatch-133178,<br>C/S-853.0<br>Marl-O/S 617716,<br>Dispatch-78800, C/S-563584. |   |   |
| 9g    | Scrutiny of Annual return on sale value, Ex. Mine price & production cost                              | Ex Mine-<br>L/s- 135.33Rs/T<br>Marl-108.93 Rs/T   |   |   |
| 9i    | Scrutiny of Annual return on fixed assets  | Given in AR   |   |   |
| 9k    | Scrutiny of Annual return on mining machineries  | Given as Proposed   |   |   |

<sup>10-</sup> Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Presently no significant violation observed for the year.