

**MANGROL LIMESTONE MINES**

M/s J. K. Cement Works

Date :15.10.2018

**KEY ENVIRONMENTAL PARAMETERS****Quarter Q - 2 (From July 2018 - September 2018)**

|                                  |                                                      |                         |      |                    |       |                                                                       |       |                    |       |       |
|----------------------------------|------------------------------------------------------|-------------------------|------|--------------------|-------|-----------------------------------------------------------------------|-------|--------------------|-------|-------|
| 1                                | STATIC INFORMATION (Physical Data)                   |                         |      |                    |       |                                                                       |       |                    |       |       |
| 1.1                              | M. L. No.                                            |                         |      |                    |       | 26 / 08                                                               |       |                    |       |       |
| 1.2                              | Area                                                 |                         |      |                    |       | 132 Hectare                                                           |       |                    |       |       |
| 1.3                              | Lease Duration                                       |                         |      |                    |       | valid upto 03.05.2062                                                 |       |                    |       |       |
| 1.4                              | Date of Commissioning                                |                         |      |                    |       | 04.05.2012                                                            |       |                    |       |       |
| 1.5                              | Production Capacity                                  |                         |      |                    |       | 1.5 MMTPA                                                             |       |                    |       |       |
|                                  |                                                      |                         |      |                    |       |                                                                       |       |                    |       |       |
| 2                                | DYNAMIC PARAMETER                                    |                         |      |                    |       |                                                                       |       |                    |       |       |
| 2.1                              | Ambient Air Quality                                  |                         |      |                    |       |                                                                       |       |                    |       |       |
| Parameters                       | Permissible Limit                                    | LOCATION (Actual Value) |      |                    |       |                                                                       |       |                    |       |       |
|                                  |                                                      | Towards Factory Gate    |      | Near Ravana Office |       | 3 to 10 Meter Distance From Drilling Operation (SPM Limit- 600 µg/m3) |       | Near loading point |       |       |
|                                  |                                                      | Max                     | Min  | Max                | Min   | Max                                                                   | Min   | Max                | Min   |       |
|                                  |                                                      | SPM                     | 500  | 434.0              | 234.1 | 385.3                                                                 | 278.7 | 434.0              | 349.8 | 359.6 |
| PM 10                            | 100                                                  | 38.0                    | 30.0 | 54.9               | 38.8  | 55.2                                                                  | 40.5  | 51.6               | 37.1  |       |
| NOx                              | 80                                                   | 23.6                    | 17.3 | 28.1               | 18.0  | 32.2                                                                  | 19.1  | 29.9               | 19.8  |       |
|                                  |                                                      |                         |      |                    |       |                                                                       |       |                    |       |       |
| 2.2                              | Vibration due to Blasting (max Value of the Quarter) |                         |      |                    |       |                                                                       |       |                    |       |       |
|                                  | Peak particle velocity at 300 mtr is 3.28 mm/sec.    |                         |      |                    |       |                                                                       |       |                    |       |       |
|                                  |                                                      |                         |      |                    |       |                                                                       |       |                    |       |       |
| 2.3                              | Quality of Discharge Water                           |                         |      |                    |       |                                                                       |       |                    |       |       |
|                                  | No water discharge from mines                        |                         |      |                    |       |                                                                       |       |                    |       |       |
|                                  |                                                      |                         |      |                    |       |                                                                       |       |                    |       |       |
| 2.4                              | Greenbelt / Plantation (Within Lease Area)           |                         |      |                    |       |                                                                       |       |                    |       |       |
| Year                             | 2018-19                                              |                         |      |                    |       | Cummulative (2010 - 18 ) upto 31st March 2018                         |       |                    |       |       |
| No. of Tree Planted within lease |                                                      |                         |      |                    |       | 4060                                                                  |       |                    |       |       |
| Area (hect.) under Plantation    |                                                      |                         |      |                    |       | 2.759                                                                 |       |                    |       |       |