

| Chettinad Cement Corporation Private Limited -Alanthuraiyarkattalai Limestone Mine |                                       |                                       |     |      |                                        |     |      |                                      |      |      |                          |      |      |
|------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|-----|------|----------------------------------------|-----|------|--------------------------------------|------|------|--------------------------|------|------|
| Alanthuraiyarkattalai Village , Ariyalur District, Tamilnadu State                 |                                       |                                       |     |      |                                        |     |      |                                      |      |      |                          |      |      |
| Ambiant Air Quality Monitoring- Consolidated Report ( Apr '17 - Sep '17)           |                                       |                                       |     |      |                                        |     |      |                                      |      |      |                          |      |      |
| S.No                                                                               | Location                              | PM <sub>10</sub> (µg/m <sup>3</sup> ) |     |      | PM <sub>2.5</sub> (µg/m <sup>3</sup> ) |     |      | SO <sub>2</sub> (µg/m <sup>3</sup> ) |      |      | NOx (µg/m <sup>3</sup> ) |      |      |
|                                                                                    |                                       | Max                                   | Min | Avg  | Max                                    | Min | Avg  | Max                                  | Min  | Avg  | Max                      | Min  | Avg  |
| 1                                                                                  | Alanthuraiyarkattalai Mine -Northwest | 42                                    | 27  | 35.2 | 20                                     | 14  | 16.3 | 12.0                                 | 9.0  | 10.8 | 15.0                     | 11.0 | 13.3 |
| 2                                                                                  | Loading Area-East                     | 54                                    | 38  | 45.0 | 31                                     | 19  | 24.0 | 16.0                                 | 9.0  | 12.5 | 18.0                     | 10.0 | 14.5 |
| 3                                                                                  | Haul Road-Southwest                   | 51                                    | 33  | 40.5 | 25                                     | 15  | 20.0 | 16.0                                 | 10.0 | 13.0 | 19.0                     | 14.0 | 16.3 |
| 4                                                                                  | Dump Yard-West                        | 35                                    | 21  | 27.8 | 18                                     | 10  | 13.5 | 7.0                                  | 6.0  | 6.7  | 9.0                      | 7.0  | 7.3  |
| Norm                                                                               |                                       | 100 µg/m <sup>3</sup>                 |     |      | 60 µg/m <sup>3</sup>                   |     |      | 80 µg/m <sup>3</sup>                 |      |      | 80 µg/m <sup>3</sup>     |      |      |

for Chettinad Cement Corporation Private Limited



M Sundaramoorthy  
Joint President (Works)

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|------------------------------------------------------------------------------------|--------------------------------------------|-------|------------------|-----------------|------------------|------------------|-----------------|------------------|
| Alanthuraiyarkattalai Village , Ariyalur District, Tamilnadu State                 |                                            |       |                  |                 |                  |                  |                 |                  |
| Noise Level Monitoring- Consolidated Report (Apr'17 to Sep'17)                     |                                            |       |                  |                 |                  |                  |                 |                  |
| S.No                                                                               | Location                                   | UoM   | Day              |                 |                  | Night            |                 |                  |
|                                                                                    |                                            |       | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> |
| Within the Premises                                                                |                                            |       |                  |                 |                  |                  |                 |                  |
| 1                                                                                  | Alanthuraiyarkattalai Mine - Near Boundary | dB(A) | 45.7             | 50.6            | 54.8             | 36.8             | 45.0            | 52.5             |
| 2                                                                                  | Loading Area                               | dB(A) | 49.7             | 62.2            | 68.3             | 45.2             | 57.9            | 65.3             |
| 3                                                                                  | Haul Road                                  | dB(A) | 52.8             | 57.6            | 63.8             | 43.8             | 49.3            | 60.6             |
| Limit (L <sub>eq</sub> )                                                           |                                            | dB(A) | 75               |                 |                  | 70               |                 |                  |
| S.No                                                                               | Location                                   | UoM   | Day              |                 |                  | Night            |                 |                  |
|                                                                                    |                                            |       | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> | L <sub>min</sub> | L <sub>eq</sub> | L <sub>max</sub> |
| Outside the Premises                                                               |                                            |       |                  |                 |                  |                  |                 |                  |
| 1                                                                                  | Panangur Village                           | dB(A) | 40.5             | 44.4            | 52.8             | 37.6             | 40.5            | 42.6             |
| 2                                                                                  | Eleri Village                              | dB(A) | 38.6             | 41.2            | 44.5             | 33.5             | 36.3            | 38.9             |
| 3                                                                                  | Idayathankudi Village                      | dB(A) | 40.7             | 42.0            | 43.8             | 33.8             | 35.2            | 37.5             |
| 4                                                                                  | Chetti Tirukonnam Village                  | dB(A) | 38.7             | 41.5            | 46.7             | 33.8             | 35.1            | 36.8             |
| Limit (L <sub>eq</sub> )                                                           |                                            | dB(A) | 55               |                 |                  | 45               |                 |                  |

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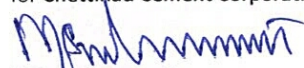
  
M Sundaramoorthy  
Joint President (Works)



| Chettinad Cement Corporation Private Limited-Alanthuraiyarkattalai Limestone Mine |                                                           |       |         |         |                                   |         |         |         |         |         |                                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-------|---------|---------|-----------------------------------|---------|---------|---------|---------|---------|--------------------------------------|
| Alanthuraiyarkattalai Village, Ariyalur District,Tamilnadu                        |                                                           |       |         |         |                                   |         |         |         |         |         |                                      |
| Ground Water Quality Monitoring Report( Apr '17 to Sep '17)                       |                                                           |       |         |         |                                   |         |         |         |         |         |                                      |
| S.No                                                                              | Parameter                                                 | UoM   | GW 1    |         | GW 2                              |         | GW 3    |         | GW 4    |         | Limit                                |
|                                                                                   |                                                           |       | May '17 | Aug '17 | May '17                           | Aug '17 | May '17 | Aug '17 | May '17 | Aug '17 |                                      |
| 1                                                                                 | pH                                                        | -     | 7.4     | 7.6     | 7.2                               | 7.5     | 7.8     | 7.6     | 7.7     | 7.3     | 5.5 - 9.0                            |
| 2                                                                                 | Temperature                                               | Deg C | 27.9    | 28.3    | 28.6                              | 27.8    | 28.4    | 27.6    | 28.5    | 25.7    | 40                                   |
| 3                                                                                 | Particle size for TSS                                     | -     | 100%    | 100%    | 100%                              | 100%    | 100%    | 100%    | 100%    | 100%    | Shall pass<br>850 micron<br>IS Sieve |
| 4                                                                                 | TSS                                                       | mg/l  | 1.6     | 1.2     | 1.4                               | 1.5     | 1.2     | 1.6     | 1.3     | 1.2     | 100                                  |
| 5                                                                                 | TDS                                                       | mg/l  | 425     | 447     | 356                               | 347     | 352     | 348     | 355     | 352     | 2100                                 |
| 6                                                                                 | Chloride as Cl                                            | mg/l  | 83      | 80      | 78                                | 90      | 94      | 87      | 82      | 81      | 1000                                 |
| 7                                                                                 | Sulphide as S                                             | mg/l  | 0.2     | 0.3     | 0.1                               | 0.2     | 0.3     | 0.1     | 0.12    | 0.2     | 2                                    |
| 8                                                                                 | Sulphate as SO <sub>4</sub>                               | mg/l  | 22      | 20      | 18                                | 16      | 24      | 22      | 20      | 22      | 1000                                 |
| 9                                                                                 | Fluoride as F                                             | mg/l  | BDL     | BDL     | BDL                               | BDL     | BDL     | BDL     | BDL     | BDL     | 2                                    |
| 10                                                                                | Sodium                                                    | %     | 28      | 25      | 26                                | 22      | 24      | 27      | 28      | 22      | -                                    |
| 11                                                                                | Copper                                                    | mg/l  | 0.03    | 0.02    | 0.02                              | 0.03    | 0.04    | 0.03    | 0.04    | 0.03    | 3                                    |
| 12                                                                                | Zinc as Zn                                                | mg/l  | BDL     | BDL     | BDL                               | BDL     | BDL     | BDL     | BDL     | BDL     | 1                                    |
| 13                                                                                | Phenolic compounds as<br>C <sub>6</sub> H <sub>5</sub> OH | mg/l  | BDL     | BDL     | BDL                               | BDL     | BDL     | BDL     | BDL     | BDL     | 1                                    |
| 14                                                                                | Oil & Grease                                              | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | 10                                   |
| 15                                                                                | Boron as B                                                | mg/l  | BDL     | BDL     | BDL                               | BDL     | BDL     | BDL     | BDL     | BDL     | 2                                    |
| 16                                                                                | BOD 3 days 27°C                                           | mg/l  | 0.2     | 0.3     | 0.1                               | 0.3     | 0.4     | 0.3     | 0.4     | 0.3     | 30                                   |
| 17                                                                                | COD                                                       | mg/l  | 3       | 4       | 3                                 | 3       | 2       | 3       | 3       | 4       | 250                                  |
| 18                                                                                | Total Residual Chlorine                                   | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | 1                                    |
| 19                                                                                | Arsenic as As                                             | mg/l  | BDL     | BDL     | BDL                               | BDL     | BDL     | BDL     | BDL     | BDL     | 0.2                                  |
| 20                                                                                | Cadmium as Cd                                             | mg/l  | BDL     | BDL     | BDL                               | BDL     | BDL     | BDL     | BDL     | BDL     | 2                                    |
| 21                                                                                | Total Chromium as Cr                                      | mg/l  | BDL     | BDL     | BDL                               | BDL     | BDL     | BDL     | BDL     | BDL     | 2                                    |
| 22                                                                                | Hexavalent Chromium                                       | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | 0.1                                  |
| 23                                                                                | Lead as Pb                                                | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | 0.1                                  |
| 24                                                                                | Selenium as Se                                            | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | 0.05                                 |
| 25                                                                                | Mercury as Hg                                             | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | 0.01                                 |
| 26                                                                                | Pesticides                                                | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | ---                                  |
| 27                                                                                | Free Ammonia as NH <sub>3</sub>                           | mg/l  | 0.1     | 0.1     | 0.4                               | 0.1     | 0.3     | 0.1     | 0.2     | 0.4     | 5                                    |
| 28                                                                                | Dissolved Phosphate as P                                  | mg/l  | 0.03    | 0.01    | 0.05                              | 0.02    | 0.04    | 0.03    | 0.01    | 0.04    | 5                                    |
| 29                                                                                | Total Kieldahl Nitrogen as N                              | mg/l  | 12      | 10.2    | 11.8                              | 10.4    | 11.8    | 13.9    | 11.8    | 12.5    | 100                                  |
| 30                                                                                | Cyanide as CN                                             | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | 0.2                                  |
| 31                                                                                | Nickel as Ni                                              | mg/l  | NIL     | NIL     | NIL                               | NIL     | NIL     | NIL     | NIL     | NIL     | 3                                    |
| GW 1 : Borewell Valaikuli                                                         |                                                           |       |         |         | GW 4 : Borewell ,Periyathirukonam |         |         |         |         |         |                                      |
| GW 2 : Dugwell Sundakkudi                                                         |                                                           |       |         |         |                                   |         |         |         |         |         |                                      |
| GW 3 : Borewell Esanai                                                            |                                                           |       |         |         |                                   |         |         |         |         |         |                                      |

BDL : Below Detectable Level

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