

THE RAMCO CEMENTS LIMITED, KSR NAGAR
AMBIENT AIR QUALITY MONITORING DATA - BUFFER ZONE VILLAGES
(PERIOD - October- 2016 to March-2017)

| Location | Parameter | Month | | | | | | | | | | | | Limits |
|------------------------|-----------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------|
| | | Oct-16 | | Nov-16 | | Dec-16 | | Jan-17 | | Feb-17 | | Mar-17 | | |
| | | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | |
| Dharmavarapupadu Tanda | PM 10 | 58 | 64 | 49 | 36 | 59 | 52 | 41 | 46 | 59 | 65 | 62 | 68 | 100 |
| | PM 2.5 | 29 | 29 | 22 | 20 | 27 | 24 | 17 | 18 | 21 | 32 | 27 | 27 | 60 |
| | SO ₂ | 15 | 13 | 13 | 11 | 12 | 15 | 13 | 16 | 16 | 17 | 14 | 17 | 80 |
| | NO _x | 20 | 20 | 17 | 18 | 21 | 21 | 21 | 22 | 23 | 20 | 23 | 23 | 80 |
| Jayanthipuram | PM 10 | 62 | 59 | 59 | 39 | 51 | 56 | 53 | 57 | 63 | 51 | 71 | 74 | 100 |
| | PM 2.5 | 25 | 24 | 26 | 16 | 24 | 29 | 25 | 21 | 27 | 22 | 34 | 36 | 60 |
| | SO ₂ | 13 | 14 | 14 | 15 | 14 | 14 | 16 | 14 | 15 | 16 | 17 | 15 | 80 |
| | NO _x | 22 | 22 | 18 | 17 | 19 | 21 | 22 | 21 | 25 | 22 | 24 | 22 | 80 |
| OYH Colony | PM 10 | 54 | 47 | 45 | 45 | 50 | 40 | 56 | 59 | 65 | 47 | 53 | 55 | 100 |
| | PM 2.5 | 23 | 22 | 18 | 18 | 26 | 21 | 27 | 19 | 31 | 25 | 26 | 21 | 60 |
| | SO ₂ | 14 | 14 | 14 | 14 | 12 | 12 | 14 | 15 | 17 | 17 | 16 | 16 | 80 |
| | NO _x | 21 | 21 | 20 | 19 | 19 | 19 | 24 | 23 | 22 | 21 | 22 | 26 | 80 |
| K.Agraharam Village | PM 10 | 51 | 62 | 51 | 41 | 56 | 51 | 47 | 64 | 52 | 56 | 59 | 67 | 100 |
| | PM 2.5 | 21 | 25 | 29 | 16 | 22 | 23 | 15 | 26 | 22 | 27 | 17 | 24 | 60 |
| | SO ₂ | 15 | 14 | 13 | 13 | 14 | 13 | 15 | 14 | 17 | 18 | 15 | 14 | 80 |
| | NO _x | 20 | 21 | 18 | 18 | 18 | 18 | 20 | 21 | 24 | 25 | 24 | 25 | 80 |
| Jaggayyapet | PM 10 | 62 | 69 | 48 | 47 | 52 | 55 | 58 | 61 | 67 | 66 | 75 | 76 | 100 |
| | PM 2.5 | 27 | 31 | 18 | 19 | 23 | 27 | 24 | 23 | 29 | 28 | 39 | 33 | 60 |
| | SO ₂ | 14 | 15 | 14 | 14 | 13 | 14 | 14 | 16 | 16 | 15 | 16 | 15 | 80 |
| | NO _x | 19 | 23 | 19 | 19 | 20 | 22 | 21 | 22 | 23 | 21 | 26 | 24 | 80 |
| Budawada | PM 10 | 55 | 53 | 53 | 38 | 52 | 52 | 49 | 59 | 55 | 53 | 64 | 69 | 100 |
| | PM 2.5 | 23 | 24 | 22 | 17 | 21 | 23 | 16 | 22 | 24 | 19 | 28 | 31 | 60 |
| | SO ₂ | 13 | 14 | 15 | 14 | 12 | 13 | 16 | 15 | 14 | 18 | 17 | 17 | 80 |
| | NO _x | 21 | 21 | 19 | 19 | 21 | 19 | 21 | 19 | 25 | 23 | 25 | 23 | 80 |
| Vedadri | PM 10 | 66 | 65 | 44 | 42 | 54 | 57 | 58 | 54 | 58 | 61 | 69 | 58 | 100 |
| | PM 2.5 | 29 | 27 | 19 | 21 | 25 | 23 | 22 | 27 | 19 | 24 | 32 | 25 | 60 |
| | SO ₂ | 14 | 15 | 14 | 12 | 12 | 15 | 15 | 15 | 17 | 14 | 16 | 13 | 80 |
| | NO _x | 20 | 21 | 18 | 17 | 18 | 18 | 24 | 22 | 21 | 24 | 24 | 22 | 80 |
| Padmavathi Nagar | PM 10 | 58 | 56 | 57 | 38 | 57 | 51 | 53 | 48 | 53 | 52 | 62 | 51 | 100 |
| | PM 2.5 | 24 | 21 | 24 | 17 | 24 | 20 | 19 | 21 | 24 | 25 | 25 | 29 | 60 |
| | SO ₂ | 13 | 14 | 11 | 13 | 13 | 14 | 13 | 16 | 15 | 17 | 14 | 16 | 80 |
| | NO _x | 23 | 20 | 17 | 19 | 18 | 17 | 25 | 23 | 26 | 22 | 26 | 26 | 80 |
| Ravirala | PM 10 | 66 | 52 | 53 | 42 | 52 | 44 | 48 | 51 | 62 | 58 | 73 | 61 | 100 |
| | PM 2.5 | 25 | 26 | 22 | 21 | 23 | 18 | 21 | 19 | 28 | 26 | 33 | 23 | 60 |
| | SO ₂ | 16 | 14 | 12 | 13 | 13 | 13 | 14 | 14 | 17 | 16 | 17 | 14 | 80 |
| | NO _x | 21 | 22 | 19 | 17 | 20 | 20 | 22 | 20 | 24 | 23 | 23 | 24 | 80 |

Note: All values are mentioned in $\mu\text{g}/\text{m}^3$

THE RAMCO CEMENTS LIMITED, KSR NAGAR
AMBIENT AIR QUALITY MONITORING DATA - NORTH BAND MINE - CORE ZONE
(PERIOD - Oct 2016 to March-2017)

ANNEXURE -

| Location | Parameter | Month | | | | | | | | | | | | Limits |
|---------------|-----------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------|
| | | Oct-16 | | Nov-16 | | Dec-16 | | Jan-17 | | Feb-17 | | Mar-17 | | |
| | | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | |
| Mines office | PM 10 | 58 | 61 | 62 | 61 | 64 | 63 | 77 | 83 | 62 | 71 | 59 | 69 | 100 |
| | PM 2.5 | 23 | 28 | 34 | 25 | 29 | 27 | 36 | 35 | 23 | 29 | 21 | 22 | 60 |
| | SO ₂ | 14 | 15 | 14 | 13 | 15 | 12 | 18 | 16 | 15 | 17 | 14 | 16 | 80 |
| | NO _x | 22 | 21 | 21 | 20 | 19 | 20 | 23 | 22 | 21 | 25 | 24 | 22 | 80 |
| Workshop | PM 10 | 67 | 72 | 65 | 57 | 68 | 61 | 82 | 72 | 58 | 64 | 72 | 76 | 100 |
| | PM 2.5 | 27 | 34 | 32 | 22 | 37 | 24 | 38 | 31 | 26 | 36 | 33 | 28 | 60 |
| | SO ₂ | 15 | 15 | 14 | 16 | 13 | 14 | 17 | 18 | 18 | 18 | 17 | 17 | 80 |
| | NO _x | 20 | 22 | 19 | 18 | 18 | 18 | 24 | 21 | 23 | 24 | 25 | 26 | 80 |
| Substation | PM 10 | 49 | 52 | 63 | 64 | 53 | 56 | 65 | 73 | 67 | 49 | 56 | 51 | 100 |
| | PM 2.5 | 19 | 19 | 28 | 31 | 26 | 23 | 28 | 32 | 31 | 19 | 27 | 20 | 60 |
| | SO ₂ | 14 | 13 | 13 | 15 | 13 | 15 | 18 | 17 | 15 | 15 | 14 | 15 | 80 |
| | NO _x | 20 | 19 | 20 | 21 | 20 | 21 | 21 | 23 | 23 | 21 | 23 | 23 | 80 |
| Magazine Area | PM 10 | 45 | 51 | 67 | 59 | 71 | 54 | 73 | 71 | 51 | 56 | 48 | 63 | 100 |
| | PM 2.5 | 22 | 20 | 31 | 27 | 34 | 21 | 35 | 37 | 22 | 21 | 19 | 25 | 60 |
| | SO ₂ | 13 | 15 | 15 | 14 | 14 | 14 | 16 | 17 | 14 | 15 | 13 | 16 | 80 |
| | NO _x | 19 | 21 | 19 | 19 | 18 | 18 | 25 | 26 | 22 | 23 | 23 | 23 | 80 |

Note: All values are mentioned in µg/m³

THE RAMCO CEMENTS LIMITED, KSR NAGAR
AMBIENT AIR QUALITY MONITORING DATA - SOUTH BAND MINE - CORE ZONE
(PERIOD - Oct 2016 to March-2017)

ANNEXURE -

| Location | Parameter | Month | | | | | | | | | | | | Limits |
|--------------|-----------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------|
| | | Oct-16 | | Nov-16 | | Dec-16 | | Jan-17 | | Feb-17 | | Mar-17 | | |
| | | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | |
| Mines office | PM 10 | 49 | 67 | 66 | 56 | 75 | 49 | 68 | 58 | 66 | 62 | 68 | 73 | 100 |
| | PM 2.5 | 18 | 31 | 28 | 24 | 34 | 17 | 34 | 21 | 25 | 27 | 23 | 32 | 60 |
| | SO ₂ | 14 | 13 | 14 | 16 | 16 | 15 | 15 | 15 | 18 | 17 | 16 | 16 | 80 |
| | NO _x | 22 | 20 | 19 | 20 | 21 | 22 | 23 | 21 | 22 | 25 | 21 | 24 | 80 |
| Pump House | PM 10 | 66 | 51 | 52 | 59 | 73 | 77 | 71 | 44 | 62 | 59 | 57 | 61 | 100 |
| | PM 2.5 | 24 | 26 | 19 | 26 | 36 | 35 | 27 | 19 | 32 | 24 | 18 | 16 | 60 |
| | SO ₂ | 14 | 14 | 13 | 13 | 13 | 12 | 18 | 14 | 15 | 16 | 17 | 15 | 80 |
| | NO _x | 20 | 22 | 19 | 18 | 19 | 18 | 24 | 21 | 25 | 26 | 24 | 26 | 80 |
| Haul Road | PM 10 | 74 | 69 | 63 | 41 | 54 | 71 | 83 | 67 | 78 | 77 | 81 | 84 | 100 |
| | PM 2.5 | 31 | 36 | 27 | 19 | 19 | 23 | 36 | 31 | 34 | 36 | 42 | 39 | 60 |
| | SO ₂ | 14 | 13 | 15 | 12 | 15 | 15 | 17 | 16 | 16 | 16 | 18 | 18 | 80 |
| | NO _x | 23 | 19 | 21 | 19 | 20 | 20 | 21 | 20 | 24 | 23 | 24 | 22 | 80 |
| Loading Area | PM 10 | 68 | 65 | 49 | 61 | 62 | 62 | 75 | 75 | 72 | 75 | 79 | 82 | 100 |
| | PM 2.5 | 36 | 34 | 25 | 23 | 25 | 28 | 32 | 36 | 29 | 31 | 38 | 41 | 60 |
| | SO ₂ | 16 | 15 | 13 | 15 | 14 | 14 | 18 | 15 | 16 | 18 | 15 | 17 | 80 |
| | NO _x | 21 | 20 | 20 | 19 | 18 | 21 | 22 | 24 | 24 | 24 | 23 | 25 | 80 |

Note: All values are mentioned in µg/m³

THE RAMCO CEMENTS LIMITED, KSR NAGAR
AMBIENT AIR QUALITY MONITORING DATA - RAVIRALA MINE - CORE ZONE
(PERIOD - Oct 2016 to March-2017)

| Location | Parameter | Month | | | | | | | | | | | | Limits |
|-----------------------------|-----------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------|
| | | Oct-16 | | Nov-16 | | Dec-16 | | Jan-17 | | Feb-17 | | Mar-17 | | |
| | | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | |
| Mines Office | PM 10 | 53 | 45 | 61 | 64 | 52 | 49 | 58 | 63 | 74 | 54 | 66 | 59 | 100 |
| | PM 2.5 | 22 | 22 | 23 | 27 | 23 | 22 | 24 | 31 | 27 | 22 | 22 | 27 | 60 |
| | SO ₂ | 14 | 12 | 14 | 14 | 13 | 14 | 12 | 14 | 16 | 16 | 15 | 15 | 80 |
| | NO _x | 18 | 18 | 21 | 21 | 19 | 20 | 17 | 20 | 21 | 21 | 20 | 22 | 80 |
| ML3 Tower Light Area | PM 10 | 64 | 43 | 71 | 69 | 41 | 63 | 43 | 52 | 61 | 63 | 53 | 61 | 100 |
| | PM 2.5 | 26 | 28 | 33 | 31 | 22 | 28 | 19 | 16 | 25 | 28 | 21 | 23 | 60 |
| | SO ₂ | 15 | 1 | 16 | 15 | 12 | 63 | 10 | 12 | 14 | 15 | 14 | 15 | 80 |
| | NO _x | 22 | 17 | 18 | 20 | 20 | 18 | 19 | 18 | 22 | 23 | 23 | 23 | 80 |
| ML4 Tower Light Area | PM 10 | 48 | 37 | 55 | 71 | 48 | 51 | 46 | 42 | 58 | 53 | 62 | 65 | 100 |
| | PM 2.5 | 21 | 19 | 18 | 34 | 20 | 21 | 17 | 19 | 17 | 25 | 19 | 28 | 60 |
| | SO ₂ | 14 | 14 | 14 | 13 | 11 | 51 | 11 | 10 | 15 | 16 | 14 | 17 | 80 |
| | NO _x | 21 | 20 | 20 | 18 | 18 | 18 | 18 | 17 | 21 | 20 | 21 | 25 | 80 |
| View Point Tower Light Area | PM 10 | 59 | 44 | 68 | 59 | 39 | 45 | 39 | 45 | 52 | 52 | 67 | 49 | 100 |
| | PM 2.5 | 27 | 18 | 26 | 24 | 16 | 20 | 20 | 22 | 24 | 21 | 23 | 21 | 60 |
| | SO ₂ | 13 | 12 | 16 | 14 | 13 | 45 | 11 | 11 | 17 | 16 | 15 | 14 | 80 |
| | NO _x | 20 | 29 | 19 | 18 | 17 | 19 | 17 | 17 | 23 | 21 | 24 | 23 | 80 |

Note: All values are mentioned in $\mu\text{g}/\text{m}^3$

THE RAMCO CEMENTS LIMITED, KSR NAGAR
AMBIENT AIR QUALITY MONITORING DATA - BUDAWADA MINE - CORE ZONE
(PERIOD - Oct 2016 to March-2017)

| Location | Parameter | Month | | | | | | | | | | | | Limits |
|---------------|-----------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------|
| | | Oct-16 | | Nov-16 | | Dec-16 | | Jan-17 | | Feb-17 | | Mar-17 | | |
| | | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | I FORT NIGHT | II FORT NIGHT | |
| Drilling Area | PM 10 | 58 | 55 | 55 | 63 | 64 | 71 | 51 | 61 | 68 | 76 | 63 | 71 | 100 |
| | PM 2.5 | 18 | 23 | 23 | 28 | 27 | 34 | 26 | 24 | 29 | 38 | 27 | 32 | 60 |
| | SO ₂ | 14 | 14 | 15 | 13 | 14 | 15 | 12 | 13 | 17 | 17 | 16 | 16 | 80 |
| | NO _x | 22 | 21 | 23 | 22 | 20 | 19 | 19 | 19 | 23 | 21 | 25 | 22 | 80 |
| Loading Area | PM 10 | 62 | 49 | 62 | 67 | 69 | 64 | 65 | 59 | 74 | 72 | 77 | 74 | 100 |
| | PM 2.5 | 22 | 21 | 31 | 32 | 31 | 29 | 22 | 27 | 33 | 24 | 41 | 39 | 60 |
| | SO ₂ | 15 | 15 | 16 | 16 | 15 | 13 | 13 | 14 | 16 | 15 | 18 | 15 | 80 |
| | NO _x | 20 | 20 | 21 | 23 | 21 | 18 | 20 | 19 | 24 | 25 | 23 | 24 | 80 |
| Haul Road-1 | PM 10 | 64 | 61 | 69 | 49 | 71 | 68 | 67 | 68 | 72 | 82 | 69 | 64 | 100 |
| | PM 2.5 | 28 | 29 | 34 | 25 | 34 | 37 | 32 | 31 | 28 | 36 | 26 | 28 | 60 |
| | SO ₂ | 15 | 15 | 13 | 14 | 13 | 13 | 14 | 12 | 18 | 16 | 15 | 15 | 80 |
| | NO _x | 23 | 22 | 22 | 21 | 18 | 20 | 21 | 18 | 20 | 24 | 21 | 23 | 80 |
| Haul Road-2 | PM 10 | 57 | 64 | 58 | 61 | 59 | 53 | 71 | 64 | 64 | 74 | 65 | 75 | 100 |
| | PM 2.5 | 21 | 25 | 26 | 27 | 24 | 26 | 36 | 33 | 25 | 39 | 32 | 42 | 60 |
| | SO ₂ | 15 | 13 | 16 | 14 | 14 | 14 | 14 | 14 | 17 | 16 | 16 | 17 | 80 |
| | NO _x | 22 | 23 | 24 | 21 | 18 | 18 | 20 | 19 | 25 | 25 | 27 | 24 | 80 |

Note: All values are mentioned in µg/m³