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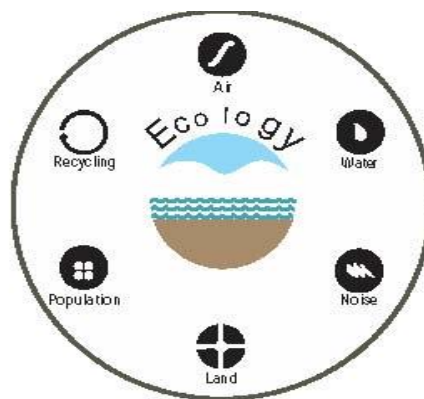
**Annual Environmental Monitoring Report
Of
Talcher Coalfields
For
2018-19**



Mahanadi Coalfields Limited

(A Subsidiary of Coal India Ltd.)

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A Mini Ratna Company

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INTRODUCTION

TALCHER COALFIELD

The state of Odisha is one of the top mineral rich states of the country where development of mining industry holds great promise for the growth of the state, country and its people. The state is endowed with a variety of mineral resources, coal being a major one. It has two important coalfields of the country, namely Talcher and Ib-valley coalfield.

Talcher coalfield is the largest repository of power grade coal in India. It occupies a basin in the south-eastern part of the Mahanadi Valley belt of Gondwana Basin and covers an area of about 1800 sq.kms and is located mainly in Angul district of Orissa. It is located between longitudes 20 degree 53 minute to 21 degree 12 minute North and longitudes 84 degree 20 minute to 85 degree 23 minute East. The strike length of the coalfield in east-west direction is about 80 kms and the width in north-south direction is about 26 Kms. The total area of the coalfield is about 1800 sq.kms.

Talcher coalfield is strategically located to supply power grade coal to other parts of the country, especially to southern and western India power houses. The coalfield is situated near Cuttack-Sambalpur railway line, which is linked to Howrah-Chennai and Howrah-Mumbai railway line. It is only 192 kms away from a major port in the eastern coast of Odisha i.e. Paradeep port. Railway link is available between Talcher and Paradeep-via-Cuttack. Talcher and Dhamra port, Talcher coalfield is also favorably located for consumers of Southern and western India itself where coal can be transported either by rail or rail cum sea route.

HISTORY OF EXPLORATION IN TALCHER COALFIELD

The occurrence of coal in the coalfield was known as early as 1837, when first systematic search for coal was done by Blandford Brothers. The public works department of the Govt. had dug out 80 tonnes of coal from six shafts sunk in the year 1875 from Gopalprasad area.

L.L Firmer examined Gopalprasad area in 1918. M/s Villiers Ltd. took up drilling in the eastern part of the basin in early twenties, as a result of which coal seams (seam-I), in working thickness range, were discovered in Karharbari formations and underground mines in Deulbera, Talcher and Handidua were started.

Indian Bureau of Mines (IBM) and erstwhile National Coal Development Corporation (NCDC) undertook detailed exploration by drilling in the eastern part of the coalfield in late fifties. Geological survey of India carried out regional exploration in the central part of the coalfield in 1963-65. Around this time Gopalprasad and its adjoining blocks received attention. During the period 1971-75, northern and western areas of Nandira i.e. Bharatpur and Kalinga blocks were explored.

The regional exploration brought to the light occurrence of many thick younger coal seams in Barakar formations. These seams were of power grade coal, quality varying from grade E to G.

To develop the area for supplying power grade coal to east coast and southern power houses, Ministry of Energy decided to intensify prospecting of the area in 1980. To speed up exploration,

external Govt. agencies like MECL (Mineral Exploration Corporation) and Directorate of Mining and Geology, Govt. of Orissa, were also engaged.

HISTORY OF MINING IN TALCHER COALFIELD

Underground mines in seam-I were started in twenties as mentioned earlier. Consequent to exploration by NCDC in Fifties, South Balanda OCP (1.0 Mty) and Nandira underground mines were planned for production of C/D grade coal in sixties. Coal from South Balanda was initially planned for supply to Talcher Power Station of OSEB, located nearby, by cross country transport system over a distance of about 10 kms.

Fertilizer Corporation of India (FCI) opened up coal based fertilizer plant near South Balanda. Total coal from South Balanda and Nandira were linked to FCI for movement by road/ belt conveyors. As an alternative, Jagannath OCP (2.0 Mty) was opened by NCDC to supply power grade coal to Talcher thermal power station of erstwhile Orissa State Electricity Board (OSEB). As the demand of power grade coal increased over the years, rail transport to southern power houses started from Jagannath OCP through Balanda and Jagannath sidings and the production capacity of the project was enhanced to 3.0 Mty and then to 4.0 Mty and now to 7.5 Mty.

Jagannath OCP sanctioned amount 6.0 Mty now producing 7.5 Mty.

To supply coal to Thermal Power Station (6x120mw) of NALCO, near Angul, Bharatpur OCP was opened in 1985. Bharatpur OCP Expansion Ph – III sanctioned capacity 20.0 is producing 10.64 Mty.

To supply coal to Super Thermal Power Station of NTPC (6x500 MW) located at Kaniah, Lingaraj OCP had been taken up for operation in 1991. Coal from Lingaraj to NTPC, Kaniah is being transported by MGR covering a distance of around 22kms. Lingraj OCP Expansion Ph –III sanctioned capacity 16 Mty is producing 13.58 Mty.

Kalinga OCP (now renamed as Balram OCP) was opened in 1991 to supply coal to North Madras and Tuticorin power houses by rail. Balaram OCP sanctioned capacity 8.00 Mty producing 3.63 Mty.

Ananta OCP Expansion Ph-II sanctioned capacity 15 Mty is producing 8.25 Mty. This was started in 1988 for supply of coal to power station of Vizag Steel Plant at Vizag and charge chrome project of ICCL at Choudwar. This coal is being transported by rail system from colliery siding.

Chhendipada OCP, a pilot project of 0.35 Mty capacity was approved in 1997 near Chhendipada to develop the north western part of the coalfield and is exhausted.

Hingula II Expansion, Phase – III (15 Mty) was approved in 1999 to supply coal to Thermal Power Stations of Southern India producing 6.23 Mty.

Bhubaneswari (20.0 Mty) and Kaniha OCP (10.0 Mty) were formulated subsequently to meet the growing demand of coal from the coalfield. Both Bhubaneswari and Kaniah OCPs are running mines.

All the above mines are being operated by MCL, a subsidiary of CIL. Not a single captive block mine has yet been operational.

LOCATION

Talcher coalfield constitutes the south-eastern most part of the Lower Gondwana basins within the Mahanadi Valley graben bounded by Latitude 20⁰ 53' to 21⁰12' N and Longitude: 84⁰ 20' to 85⁰ 23'E.

The major part of the coalfield including the present coal mining area falls in Angul district. Brahmani River falls in Dhenkanal district. A part of the coalfield in the north lies in Deogarh district.

COMMUNICATION

The southeastern part of the coalfield where all the coal mining activities are taking place at present, is connected by rail to Bhubaneswar (150 Km.) - the capital city of Odisha and located on Howrah-Chennai main railway line. It is also connected by rail and road to Paradeep port. National Highway No.42 connecting Cuttack-Angul- Sambalpur passes more or less parallel to the southern fringe of the coalfield at about 5 to 7 Km. NH-23 connecting Talcher-Samal-Pallahara passes through the eastern part of the coalfield. Another prominent district road is Angul- Chhendipada-Deogarh road passing through the central part of the coalfield. NH-200 originating from Chandikhol, also passes through north eastern part of the coalfield and joins with NH-23.

The coalfield is also suitably connected by railway network. Sambalpur Talcher rail link, the connector to Howrah-Mumbai and Howrah-Chennai main railway lines, runs almost parallel to NH-42 and passes across the study area in east-west direction. The rail link carries heavy goods traffic of the industrial and mining activities of the region to the main network lines which are accessible at about 100-150 km distance from Talcher.

TOPOGRAPHY AND DRAINAGE

Topographically the coalfield can be divided in two parts - eastern part and the western part. The eastern part largely covered by Barakar Formation (or Lower Kamthi Formation), is slightly undulating with an average elevation of around 150m above MSL. The western part comprises largely of steeply sloping Kamthi hillocks. Minimum and maximum elevation from MSL is 60m and 567m respectively for the coalfield. The terrain is undulating and accommodates large number of villages and fertile lands. The soil in this area varies from rich loams to the gravelly detritus of the hill slopes.

The coalfield is drained by the Brahmani River flowing along eastern fringe of the coalfield. Singhadajhor, Nandira and Tikra, Aunli are some of the important tributaries of the Brahmani River.

CLIMATE AND RAINFALL

The climate of the area is generally dry and arid except in monsoon season. It is influenced by prevalence of dry air of the continental type. It is characterized by extreme conditions, summers being intensely warm and winters rather cold. The summer is severe during May-June when temperature rises as high as 49⁰C accompanied by high humidity. Winter is very pleasant, prevails during December-January. The area experiences warm to hot climate with temperature varying from

9.9⁰C to 44.4⁰C. Average humidity varies from 26% to 83%. Generally the humidity is highest in August and least in March. The climate of this region resembles with that of Deccan plateau.

Annual mean wind velocity is 7 Km/hr. with maximum speed of more than 20 Km/hr. It is generally observed that the wind speed in the area is light to moderate except in the early monsoon period when it is generally strong. Higher speed wind blows during latter part of summer or rainy season in the direction of South-West or North- East. Winds blow with slow or moderate speed in rest part of the year. In winter the winds blow either from West or North. Frequent variation in wind speed takes place only in summers.

The area has monsoon type climate with rain fall predominantly in the months of June to September and some in the other months. Average rainfall per annum is 1329 mm. Maximum rainfall per annum is 2200 mm and minimum is 700 mm as per records available.

LIST OF ENVIRONMENTAL QUALITY MONITORING STATIONS

Table 01
List of Air Quality Monitoring Stations

| Sl. No. | Area | Project | Name of the Station |
|---------|-----------|-----------------|---|
| 1. | Jagannath | Jagannath OCP | Jagannath OCP-Time Office (A1) |
| 2. | | | Jagannath Colony (A2) |
| 3. | | | Near West Sump (A3) |
| 4. | | | Near View Point (A4) |
| 5. | | Ananta OCP | Near Biswal Chowk |
| 6. | | | Near West Sump, JNC |
| 7. | | | BCML Workshop |
| 8. | | | Ananta Vihar Colony |
| 9. | Bharatpur | Bharatpur OCP | Near ETP |
| 10. | | | N-W of the Mine |
| 11. | | | Near Civil Maintenance Office of Hingula Area |
| 12. | | | Near view point (A4) (Reported Only) |
| 13. | | | Project Office, Balaram OCP (Reported Only) |
| 14. | | Chhendipada OCP | Regional Store |
| 15. | | | Near Site Office |
| 16. | | | Near Fire Station |
| 17. | | | Mamuraia Sahi |
| 18. | | | Dolamandap Chhak |
| 19. | Lingaraj | Lingaraj OCP | Lingaraj GM Office |
| 20. | | | Near South Side of the Mine |
| 21. | | | Near C.T. Road (Lingaraj to Dera) |
| 22. | | | Near North Side of Mine |
| 23. | Kaniha | Kaniha OCP | Project Office |
| 24. | | | Old Site Office |
| 25. | | | New time office-Near Z-patch |
| 26. | | | Jarada Village |
| 27. | | | NTPC chakk, MGR (4P) Weekly twice |
| 28. | | | NTPC chakk, MGR (8P) Fortnightly |
| 29. | | | Chellia Village, (4P) Weekly twice |
| 30. | | | Chellia Village, (8P) Fortnightly |
| 31. | | | Jaipur Village, (4P) Weekly twice |
| 32. | | | Jaipur Village, (4P) Fortnightly |
| | | | Jamania Village |
| | | | South of Proposed Quarry Limit of KOCP |
| | | | West of Mine Quarry |
| | | | North East Side of Project Office |

| Sl. No. | Area | Project | Name of the Station |
|---------|--|-------------------------------|---|
| 33. | Hingula | Hingula | Time office |
| 34. | | | Near Project Office, Hingula OCP |
| 35. | | | South West Side of the Mine |
| 36. | | | North Side of the Mine |
| 37. | | | Village-Chhotobereni, (4P) Weekly twice |
| | | | Village-Chhotobereni, (8P) Fortnightly |
| 38. | | | Village-Kumunda, (4P) Weekly twice |
| | | | Village-Kumunda, (8P) Fortnightly |
| 39. | | Balram OCP | Village-Natada (4P) Weekly Twice |
| | | | Village-Natada (8P) Fortnightly |
| 40. | | | On Backfilled Area Near Dozer Shed |
| 41. | | | Pump House near Outsourcing Working Patch & Coal Transport Road |
| 42. | | | South West of the Mine |
| 43. | | | Project Office, Balaram OCP |
| 44. | Village-Solada (4P) Weekly Twice | | |
| | Village-Solada (8P) Fortnightly | | |
| 45. | Talcher | Talcher Colliery | GM Office |
| 46. | | | Near Canteen Talcher Colliery |
| 47. | | Mandapal Sand Mine | Near Mandapal Hospital |
| 48. | | Nandira Colliery | Project Office |
| | | | 49. |
| 50. | | Deulbera Colliery | Project Office |
| | | | 51. |
| 52. | | Kakudi & Kishoripal Sand Mine | Near Kishoripal Village |

Table 02
List of Noise Level Monitoring Stations

| Sl.no | Area | Project | Name of the Station |
|-------|-----------|-------------------------------|---|
| 1. | Jagannath | Jagannath OCP | Jagannath OCP-Time Office (A1) |
| 2. | | | Jagannath Colony (A2) |
| 3. | | | Near West Sump(A3) |
| 4. | | | Near View Point (A4) |
| 5. | | Ananta OCP | Near Biswal Chowk |
| 6. | | | Near West Sump, JNC |
| 7. | | | BCML Workshop |
| 8. | | | Ananta Vihar Colony |
| 9. | Bharatpur | Bharatpur OCP | On Backfill, Near Rejects Dump Yard |
| 10. | | | Padmabatipur Village |
| 11. | | | Near View point (A4) (Reported only) |
| 12. | | | Project Office, Balaram OCP (Reported only) |
| 13. | | | Near Civil Maintenance Office of Kalinga Colony/Pressure Filter |
| 14. | | Chhendipada OCP | Near Site Office |
| 15. | | | Near Mine Working |
| 16. | | | Near Weigh Bridge |
| 17. | Lingaraj | Lingaraj OCP | Lingaraj GM Office |
| 18. | | | Near South Side of the Mine |
| 19. | | | Near C.T. Road (Lingaraj to Dera) |
| 20. | | | Near North Side of Mine |
| 21. | Kaniha | Kaniha OCP | Site Office |
| 22. | | | Telisingha Village |
| 23. | | | Patharmunda Village |
| 24. | | | Near Jarda Village |
| 25. | Hingula | Hingula OCP | Village-Time Office |
| 26. | | | Near Project Office |
| 27. | | | Village-Chhotobereni |
| 28. | | | Village-Kumunda |
| 29. | Balaram | Balaram OCP | Natada Village |
| 30. | | | On Backfilled Area Near Dozer Shed |
| 31. | | | Project Office, Balaram OCP |
| 32. | | | Solada Village |
| 33. | Talcher | Talcher Colliery | GM Office |
| 34. | | | Canteen, Talcher Colliery |
| 35. | | Mandapal sand mine | Near Gopinathpur Village |
| 36. | | Nandira Colliery | Project Office |
| 37. | | | Sub- Station, Nandira Colliery |
| 38. | | Deulbera Colliery | Manager's Office |
| 39. | | | Deulbera Colony |
| 40. | | Kakudi & Kishoripal Sand mine | Near Kishoripal Village |

Table 03
List of Effluent (22 Parameter) Quality Monitoring Stations

| S.N O | Area | OCP/Colliery | NAME OF STATION |
|----------|------------------|-------------------------------|---|
| 1. | Jagannath | Jagannath | West Sump Water |
| 2. | | | Central Sump Water |
| 3. | | Ananta | Mine Disch. Water |
| 4. | Bharatpur | Bharatpur | Workshop ETP Clear Water Tank Outlet |
| 5. | | | DETP/STP Outlet |
| 6. | | | Water Loading Point at South Quarry Sump |
| 7. | | Chhendipada | Mine discharge Water |
| 8. | Lingaraj | Lingaraj | Inlet of Workshop ETP |
| 9. | | | Outlet of Workshop ETP |
| 10. | | | Clear Water Tank of MDTP near Stock No. 17 |
| 11. | | | Clear Water Tank of Sedimentation Pond Complex Near Lingraj Siding |
| 12. | | | Clear Water Tank of Sedimentation Pond Complex Near Deulbera Siding |
| 13. | Kaniha | Kaniha | Pre-Sedimentation Pond-I |
| 14. | | | Clear Water Pond |
| 15. | Talcher | Talcher | Talcher Colliery Sedimentation Tank Discharge |
| 16. | | Nandira | Nandira Colliery Sedimentation Tank Discharge |
| 17. | | Deulbera colliery | Deulbera Colliery Mine discharge |
| 18. | | | Rani Park Submersible Pump |
| 19. | | Handhidhua Colliery | Handhidhua Colliery Mine Discharge |
| 20. | | Mandpal Sand mine | Up stream -At 200 m Before leasehold Area |
| 21. | | | Down stream -At 200 m Before leasehold Area |
| 22. | | Kakudi & Kishoripal Sand mine | Up stream -At 200 m Before leasehold Area |
| 23. | | | Down stream -At 200 m Before leasehold Area |

Table 04
List of Effluent (4 Parameter) Quality Monitoring Stations

| S.NO | Area | OCP/Colliery | NAME OF STATION |
|------|------------------|--------------------------|---|
| 1. | Jagannath | Jagannath | O & G Trap Inlet |
| 2. | | | O & G Trap Outlet |
| 3. | | | MDTP Inlet |
| 4. | | | MDTP Outlet |
| 5. | | Ananta | O & G Trap Outlet |
| 6. | | | O & G Trap Inlet |
| 7. | | | Mine Discharge Water if Discharge Outside |
| 8. | Bharatpur | Bharatpur | Mine discharge at point of confluence with Bangaru Nulla |
| 9. | | | O & G Trap Outlet |
| 10. | | | STP Outlet (pH, TSS, Faecal Coliform, BOD) |
| 11. | | | STP Inlet (pH, TSS, BOD & COD) |
| 12. | | | O&G trap Inlet |
| 13. | Lingaraj | Lingaraj | Outlet of Workshop ETP |
| 14. | | | Inlet of MDTP Near Stock No. 17 |
| 15. | | | Clear Water Tank of MDTP Near Stock No. 17 |
| 16. | | | Clear Water Tank of Sedimentation Pond Complex Near Lingraj Siding |
| 17. | | | Clear Water Tank of Sedimentation Pond Complex Near Deulbera Siding |
| 18. | Kaniha | Kaniha | Pre-Sedimentation Pond-I |
| 19. | | | Clear Water Pond |
| 20. | Hingula | Hingula | Mine Sump water |
| 21. | | | Inlet of O & G Trap |
| 22. | | | Outlet of O & G Trap |
| 23. | | Balram | Outlet of O & G trap |
| 24. | | | Mine Sump Water |
| 25. | | | Inlet of O&G Trap |
| 26. | Talcher | Talcher | Talcher Colliery Sedimentation Tank Discharge |
| 27. | | Nandira | Nandira Colliery Sedimentation Tank Discharge |
| 28. | | Duelbera colliery | Ranipark Dubmersible Pump |

| S.NO | Area | OCP/Colliery | NAME OF STATION |
|------|----------------|-------------------------------|--|
| 29. | Talcher | Handhidhua Colliery | Handhidhua Colliery Mine Discharge |
| 30. | | Mandalpal sand Mine | Upstream -At 200 m Before Leasehold Area |
| 31. | | | Downstream -At 200 m Before Leasehold Area |
| 32. | | Kakudi & Kishoripal Sand mine | Upstream -At 200 m Before Leasehold Area |
| 33. | | | Downstream -At 200 m Before Leasehold Area |

Table 05
List of Effluent (3 Parameter) Quality Monitoring Stations

| S.NO | Area | OCP | NAME OF STATION |
|------|------------------|-----------|-----------------------------|
| 1. | Jagannath | Jagannath | STP Inlet |
| 2. | | | STP Outlet |
| 3. | | Ananta | STP Inlet |
| 4. | | | STP Outlet |
| 5. | Hingula | Balram | STP Outlet of Balram Colony |

Table 06
List of Effluent (1 Parameter) Quality Monitoring Stations

| S.NO | Area | OCP | NAME OF STATION |
|------|------------------|-----------|-----------------------------------|
| 1. | Jagannath | Ananta | Mine Sump Water |
| 2. | Bharatpur | Bharatpur | Mine Sump Water-South Quarry Sump |
| 3. | | | Mine Sump Water-Main Sump |
| 4. | | | Mine Sump Water-North Quarry Sump |
| 5. | | | Mine Sump Water-Old Quarry Sump |
| 6. | Lingaraj | Lingaraj | Mine Sump Water |

Table 07
List of Drinking Water Quality Monitoring Stations

| SL.NO | AREA | OCP/UG MINE | NAME OF OCP/UG MINE |
|-------|---------------------|-----------------------------|--|
| 1. | Jagannath | Jagannath | Rakas Vill. Well Water (Yearly Once) |
| 2. | | | Balanda Colony Tap Water (Qtrly) |
| 3. | | | Jagannath Colony Tap Water (Monthly) |
| 4. | | Ananta | Ananta Colony Tap Water |
| 5. | | | Hensmul village Well Water (Yearly Once) |
| 6. | | | Dera village Tube well Water (Yearly Once) |
| 7. | Bharatpur | Bharatpur | Tap Water in Nehru Shatabdi Nagar A Type Quarters (April/July/Oct/Jan) Qtrly |
| 8. | | | Tap Water in Nehru Shatabdi Nagar B Type Quarters (April/July/Oct/Jan) Qtrly |
| 9. | | | Tap Water in Nehru Shatabdi Nagar C Type Quarters (April/July/Oct/Jan) Qtrly |
| 10. | | | Tap Water in Nehru Shatabdi Nagar Transit House (April/July/Oct/Jan) Qtrly |
| 11. | | | Tube Well Water at Nehru Shatabdi Nagar Colony (April/July/Oct/Jan) Qtrly |
| 12. | | | Tube Well Water at Project Office. Bharatpur OCP (April/July/Oct/Jan) Qtrly |
| 13. | | | Singhada Pump House (April/July/Oct/Jan) Qtrly |
| 14. | | | Time Office, BOCP (Monthly) |
| 15. | | | Badasinga Village Open Well (Monthly) |
| 16. | | | Taleipasi Village Open Well (Monthly) |
| 17. | | | Sand Bed Filter Unit at Old Quarry (Monthly) |
| 18. | | | Chhendipada |
| 19. | Kaniha | Kaniha | Project Office Tube Well Water, (Yearly Once) (April) |
| 20. | | | Jarda Village, (Yearly Once (April) |
| 21. | Lingraj | Lingraj | MTK Office, Lingraj OCP Tap Water (Monthly) |
| 22. | | | Deulbera Colony Tap Water (Monthly) |
| 23. | | | PO Office, Lingraj OCP Tap Water (Monthly) |
| 24. | | | GM Office, Lingraj Area Tap Water (Monthly) |
| 25. | | | Lingraj Township Tap Water (Monthly) |
| 26. | Hingula | Balram | Danara Village Borewell Water (Monthly) |
| 27. | | | Balaram Colony Tap Water (Monthly) |
| 28. | | | Nakeipasi Village Bore Well Water (Monthly) |
| 29. | | Hingula | Time Office Water (Monthly) |
| 30. | | | Gopalprasad Village Bore Well Water (Monthly) |
| 31. | | | Kumunda Village Bore Well Water (Monthly) |
| 32. | Talcher | Talcher Colliery | Canteen Tap-Water, GM Office (Monthly) |
| 33. | | | Canteen Tap-Water, Talcher Colliery (Monthly) |
| 34. | | Nandira Colliery | Canteen Tap-Water (Monthly) |
| 35. | | | Pit Top Tap Water (Monthly) |
| 36. | | Deulbera Colliery | Deulbera Manager Office Tap Water (Monthly) |
| 37. | Handhidhua Colliery | Pit Top Tap Water (Monthly) | |

Table 08
List of Well Water Level Stations

| SL. NO | AREA | OCP/UG MINE | NAME OF OCP/UG MINE |
|--------|------------------|-------------------|--------------------------------|
| 1. | Jagannath | Jagannath | Rakas Village Well |
| 2. | | Ananta | Hensmul Village Well Water |
| 3. | | | Dera Village Well Water |
| 4. | Bharatpur | Bharatpur | Badasinghada Village Open Well |
| 5. | | | Taleipasi Village Open Well |
| 6. | Lingraj | Lingraj | Balunga Khamar Village well |
| 7. | | | Deulbera Village Well |
| 8. | | | Talabera Village Well |
| 9. | Hingula | Balram | Danara Village Well Water |
| 10. | | | Nakeipasi Village Well Water |
| 11. | | Hingula | Gopal Prasad Village |
| 12. | | | Kusumpal Village |
| 13. | Talcher | Talcher Colliery | Narharipur Village Well |
| 14. | | Nandira Colliery | Natedi Village |
| 15. | | Deulbera Colliery | Deulbera Village Well |

Table 09
List of Surface Water Monitoring Stations

| SL.No. | AREA | OCP | NAME OF STATION |
|--------|-------------------------------|-----------------------------------|--|
| 1. | Jagannath | Ananta | Dera Village Well |
| 2. | | | Hensmul Village Well |
| 3. | Bharatpur | Bharatpur | Jambubahali Village Pond |
| 4. | Lingraj | Lingraj | Village Pond Near Deulbera Siding |
| 5. | Kaniha | Kaniha | Singada Jhor stream nearer to Village Khairnali/ Bhagirathipur as u/s Water for Kaniha OCP |
| 6. | | | Singada Jhor stream nearer to Village Khairnali/ Bhagirathipur as u/s Water for Kaniha OCP |
| 7. | | | Before Junction Point of Singadajhor & Brahmani River at Balangi Village as d/s for Kaniha OCP |
| 8. | | | Tikra Nadi Near Kaniah Village as u/s Water for Kaniah OCP |
| 9. | | | Tikra Nadi Near Shagarhi Pala Village as d/s Water for Kaniah OCP |
| 10. | Hingula | Hingula | Singadhajhor Stream Near HOCP |
| 11. | | | Pond Water of Kankarei Village |
| 12. | | Balaram | Derjenga reservoir as a part of Impact Study |
| 13. | Pond water of Ambapal Village | | |
| 14. | Talcher | Talcher | Pond Water of Dera Village |
| 15. | | Nandira | Nandira Jhor Near Karnapur Village |
| 16. | | | Nandira Jhor Near Sakasingha Village |
| 17. | | | Nandira Jhor Near Tentolei Village Mine |
| 18. | | | Nandira Jhor Near Pengua village Mine |
| 19. | Deulbera | Pond Water of Gopinathpur Village | |

Table 10
List of Piezometer Monitoring Stations

| Sl. No. | AREA | OCP/UG MINE | NAME OF OCP/UG MINE |
|---------|----------------------|---------------------|---|
| 1 | Jagannath | Bhubaneswari | Piezometer no MTP 07 |
| 2 | | | Piezometer no MTP 08 |
| 3 | | Jagannath | Piezometer no MTP 04 (Reported Only) |
| 4 | | Ananta | Piezometer no MTP 04 |
| 5 | | | Piezometer no MTP 05 |
| 6 | Bharatpur | Bharatpur | Piezometer no MTP 09 |
| 7 | | Chhendipada | Piezometer no MTP 21 |
| 8 | | | Piezometer no MTP 22 |
| 9 | | | Piezometer no MTP 23 |
| 10 | Hingula | Balram | Piezometer no MTP 10 |
| 11 | | | Piezometer no MTP 12 |
| 12 | | | Piezometer no MTP 13 |
| 13 | | | Piezometer no MTP 17 |
| 14 | | Hingula | Piezometer no MTP 14 |
| 15 | | | Piezometer no MTP 15 |
| 16 | | | Piezometer no MTP 16 |
| 17 | | | Kaniha |
| 18 | Piezometer no MTP 19 | | |
| 19 | Piezometer no MTP 20 | | |
| 20 | Lingraj | Lingraj | Piezometer no MTP 01 |
| 21 | | | Piezometer no MTP 02 |
| 22 | | | Piezometer no MTP 06 |
| 23 | Talcher | Nandira Colliery | Piezometer no MTP 11 |
| 24 | | Handhidhua Colliery | Piezometer no MTP 03 |

FREQUENCY OF MONITORING

Table 11: Frequency of Monitoring

| Sl. No. | Parameters | Sampling Frequency |
|---------|--|-------------------------------------|
| 1. | Air (5 Parameter) Quality Monitoring | Fortnightly/Weekly Twice |
| 2. | Noise level (Day & Night) Monitoring | Fortnightly |
| 3. | Effluent (1 Parameter) Quality Monitoring | Quarterly/Yearly |
| 4. | Effluent (4 & 3 Parameter) Quality Monitoring | Fortnightly/Monthly/Quarterly |
| 5. | Effluent (22 Parameter) Quality Monitoring | Yearly |
| 6. | Drinking Water (26 Parameter) Quality Monitoring | Monthly/Quarterly/Halfyearly/Yearly |
| 7. | Piezometer & Ground Water Level Monitoring | Quarterly |
| 8. | Surface Water (21 Parameter) Quality Monitoring | Quarterly |

METHODOLOGY AND INSTRUMENTS USED

Table 12: Methodology & Instruments used for Air Quality Analysis

| No | Parameters | Method | Instruments |
|----|--------------------------|--|---|
| 1. | SPM and PM ₁₀ | IS:5182 (Part-23):2006 Cyclonic Flow Technique, Gravimetric Method | Respirable Dust Sampler, Electronic Balance |
| 2. | PM _{2.5} | Guideline for the measurement of Ambient Air Pollutants, Volume –I, May 2011 | PM 2.5 Sampler, Micro Balance |
| 3. | SO ₂ | IS:5182 (Part-2):2001, Improved West and Gaeke Method | Spectrophotometer, Respirable Dust Sampler with Impinger Box |
| 4. | NO _x | IS:5182 (Part-6):2006, Jacob &Hoccheiser Modified Method | Spectrophotometer, Respirable Dust Sampler with Impinger Box |

Table 13: Methodology & Instruments used for Noise level Monitoring

| Sl. No. | Parameters | Method | Instruments |
|---------|------------------------------------|---|--|
| 1. | Ambient Noise Level dB (Leq) | Protocol for Ambient Level Noise Monitoring, July 2015, CPCB | Weighted sound level i.e. dB(A) Meter |

s

Table 14: Methodology & Instruments used for Drinking/Surface/Effluent Water Quality Analysis

| Sl. No. | Parameters | Method | Instruments |
|--|-------------------------|---|---|
| Physical Parameter | | | |
| 1. | PH | IS 3025 (PART 11) : 1983 , Electrometric | pH meter |
| 2. | Turbidity | IS 3025 (PART10) : 1984, Nephelometric | Nepheloturbidity meter |
| 3. | Temperature | IS 3025 (PART 09) : 1984, Thermometric | Temperature Probe |
| 4. | Taste | IS 3025 (PART 07) : 1984, Physical | - |
| 5. | Odour | IS 3025 (PART 05) : 1983 , Physical | - |
| 6. | Colour | IS: 3025 (Part - 4): 1983, Visual Comparison | - |
| 7. | Total suspended solids | IS 3025 (PART 17) : 1984, Gravimetric | Hot Air Oven, Electronic balance |
| 8. | Total dissolved solids | IS 3025 (PART 16) : 1984, Gravimetric | Hot Air Oven, Electronic balance |
| In organic Parameters | | | |
| 9. | Nitrate | APHA 22nd Edition | Microprocessor based spectrophotometer- DR 2800 |
| 10. | Nitrate nitrogen | APHA 22nd Edition | Microprocessor based spectrophotometer- DR 2800 |
| 11. | Ammonical Nitrogen | IS 3025 (PART 34) : 1988, | Microprocessor based spectrophotometer- DR 2800 |
| 12. | Total kjeldhal Nitrogen | IS 3025 (PART 34) : 1988 | Microprocessor based spectrophotometer- DR 2800 |
| 13. | Total residual chlorine | IS 3025 (PART 26) : 1986 | Microprocessor based spectrophotometer- DR 2800 |
| 14. | Calcium | IS 3025 (PART 40) : 1991,EDTA Titrimetric | Burette, Pipette |
| 15. | Chloride | IS 3025 (PART 32) : 1988, | Microprocessor based spectrophotometer- DR 2800 |
| 16. | Fluoride | APHA 22nd Edition , IS 3025(Pat 60):SPANDS | Microprocessor based spectrophotometer- DR 2800 |
| 17. | Total Alkalinity | IS 3025 (PART 23) : 1986, Titration Method | Burette, Pipette |
| 18. | Total hardness | IS 3025 (PART 21) : 1983, EDTA Volumetric | Burette, Pipette |
| 19. | Dissolved phosphate | APHA 22nd Edition , IS 3025 (Pat 31): 1988 | Microprocessor based spectrophotometer- DR 2800 |
| 20. | DO | IS 3025 (PART 38) : 1989, Winkler Azide | Burette, Pipette |
| 21. | Sulfate | APHA 22nd Edition , IS 3025(Part 24): 1986, | Microprocessor based spectrophotometer- DR 2800 |
| 22. | Sulfide | APHA 22nd Edition , IS 3025(Part 29):1986 | Microprocessor based spectrophotometer- DR 2800 |
| Trace Metals | | | |
| 23. | Arsenic | APHA 22nd Edition , AAS-GTA Method | Atomic Absorption Spectrophotometer(AAS) |
| 24. | Lead | APHA 22nd Edition , AAS-GTA Method | Atomic Absorption Spectrophotometer(AAS) |
| 25. | Hexavalent chromium | APHA 22nd Edition | DR 2800 |
| 26. | Total Chromium | IS 3025 (PART 52) : 2003,AAS-Flame Method | Atomic Absorption Spectrophotometer(AAS) |
| 27. | Copper | IS 3025 (PART 42) : 1992, AAS-Flame Method | Atomic Absorption Spectrophotometer(AAS) |
| 28. | Zinc | IS 3025 (PART 49) : 1994, AAS-Flame Method | Atomic Absorption Spectrophotometer(AAS) |
| 29. | Selenium | IS 3025 (PART 56) : 2003,AAS-VGA Method | Atomic Absorption Spectrophotometer(AAS) |
| 30. | Cadmium | APHA 22nd Edition ,AAS-GTA Method | Atomic Absorption Spectrophotometer(AAS) |
| 31. | Nickel | IS 3025 (PART 54) : 2003,AAS-Flame Method | Atomic Absorption Spectrophotometer(AAS) |
| 32. | Manganese | APHA 22nd Edition ,AAS-Flame Method | Atomic Absorption Spectrophotometer(AAS) |
| 33. | Iron | IS 3025 (PART 53) : 2003,AAS-Flame Method | Atomic Absorption Spectrophotometer(AAS) |
| 34. | Boron | APHA 22nd Edition , Carmine Method | DR 2800 |
| General Organics & Trace Organics | | | |
| 35. | COD | APHA 22nd Edition ,Titration Method | COD Digester |
| 36. | O&G | IS 3025 (PART 39) : 1991, Partition gravimetric | Hot Air Oven, Electronic Balance |
| 37. | BOD | IS 3025 (PART 44) : 1993.3 day incubation | BOD Incubator |
| 38. | Phenolics | APHA 22nd Edition ,4- Amino antipyrene | - |
| Microbiological Tests | | | |
| 39. | Total coliform | MPN Test | LTEK MPN Kit |

TABLES FOR AIR QUALITY DATA

Table:1

Area: Jagannath Area

Project: Jagannath OCP

Monitoring Station: Jagannath OCP-Time Office

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 07-04-18 | 16 | 89 | 3.72 | <6 | 138 |
| 23-04-18 | 22 | 52 | 1.64 | 1.61 | 78 |
| 08-05-18 | 43 | 160 | 6.39 | 8 | 292 |
| 22-05-18 | 13 | 50 | 1.37 | <6 | 151 |
| 09-06-18 | 30 | 84 | 1.21 | <6 | 178 |
| 23-06-18 | 52 | 99 | 0.30 | <6 | 168 |
| 08-07-18 | 23 | 87 | 2.86 | <6 | 135 |
| 22-07-18 | 17 | 49 | 4.75 | 7.33 | 75 |
| 11-08-18 | 16 | 292 | 3.00 | 6.19 | 330 |
| 25-08-18 | 23 | 122 | 2.07 | <6 | 164 |
| 08-09-18 | 44 | 133 | 1.65 | <6 | 173 |
| 23-09-18 | 17 | 94 | 14.18 | 16.87 | 115 |
| 08-10-18 | 69 | 89 | 2.06 | <6 | 117 |
| 24-10-18 | 70 | 115 | 14.33 | 12.51 | 142 |
| 10-11-18 | 147 | 206 | 5.72 | 7 | 275 |
| 24-11-18 | 99 | 182 | 2.47 | 38.26 | 376 |
| 11-12-18 | 108 | 179 | 12.29 | 19.94 | 242 |
| 25-12-18 | 76 | 180 | 44.03 | 32.70 | 285 |
| 11-01-19 | 167 | 324 | 11.60 | 15.59 | 384 |
| 23-01-19 | 12 | 210 | 24.47 | 20.55 | 263 |
| 04-02-19 | 110 | 195 | 13.90 | 17.5 | 287 |
| 19-02-19 | 89 | 195 | 10.90 | 26.67 | 236 |
| 05-03-19 | 59 | 102 | 11.09 | 14.74 | 142 |
| 20-03-19 | 86 | 219 | 22.14 | 34.72 | 338 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 167 | 324 | 44.03 | 38.26 | 384 |
| Minimum | 12 | 49 | 0.3 | 1.61 | 75 |
| Average | 58.66 | 146.12 | 9.08 | 17.51 | 211.83 |
| 95 Percentile | 141.45 | 281.05 | 24.12 | 35.60 | 370.3 |
| 98 Percentile | 157.8 | 309.28 | 35.03 | 37.18 | 380.32 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | | 80 | 80 | 430 |

Table:2
Area: Jagannath Area
Project: Jagannath OCP
Monitoring Station: Jagannath Colony

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 07-04-18 | 23 | 112 | 2.16 | <6 | 152 |
| 23-04-18 | 38 | 74 | 5.34 | 7.15 | 127 |
| 08-05-18 | 19 | 51 | 1.32 | <6 | 109 |
| 22-05-18 | 18 | 25 | 1.09 | <6 | 59 |
| 09-06-18 | 22 | 100 | 1.66 | <6 | 167 |
| 23-06-18 | 28 | 62 | 1.04 | <6 | 173 |
| 08-07-18 | 17 | 50 | 2.06 | <6 | 124 |
| 22-07-18 | 20 | 65 | 2.51 | 10.75 | 102 |
| 11-08-18 | 12 | 58 | 8.78 | 8.78 | 84 |
| 24-08-18 | 15 | 63 | 4.68 | 6.56 | 104 |
| 08-09-18 | 46 | 124 | 1.21 | <6 | 157 |
| 23-09-18 | 30 | 98 | 8.23 | <6 | 139 |
| 08-10-18 | 47 | 197 | 4.29 | <6 | 219 |
| 24-10-18 | 30 | 176 | 6.48 | <6 | 207 |
| 10-11-18 | 111 | 184 | 3.23 | 12.50 | 270 |
| 24-11-18 | 72 | 246 | 4.11 | 29.52 | 268 |
| 11-12-18 | 180 | 238 | 17.37 | 28.21 | 294 |
| 25-12-18 | 118 | 158 | 47.66 | 40.98 | 206 |
| 10-01-19 | 134 | 266 | 13.19 | 48.58 | 313 |
| 23-01-19 | 146 | 295 | 11.39 | 11.39 | 312 |
| 04-02-19 | 36 | 87 | 25.34 | 39.39 | 161 |
| 19-02-19 | 43 | 175 | 11.03 | 63.87 | 213 |
| 05-03-19 | 56 | 105 | 12.83 | 16.43 | 209 |
| 20-03-19 | 26 | 188 | 14.44 | 11.63 | 239 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 180 | 295 | 47.66 | 63.87 | 313 |
| Minimum | 12 | 25 | 1.04 | 6.56 | 59 |
| Average | 53.62 | 133.20 | 8.81 | 23.98 | 183.67 |
| 95 Percentile | 144.20 | 263 | 24.14 | 53.93 | 309.30 |
| 98 Percentile | 164.36 | 281.66 | 37.39 | 59.89 | 312.54 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:3
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Near West Sump (A3)

All values in $\mu\text{g}/\text{m}^3$

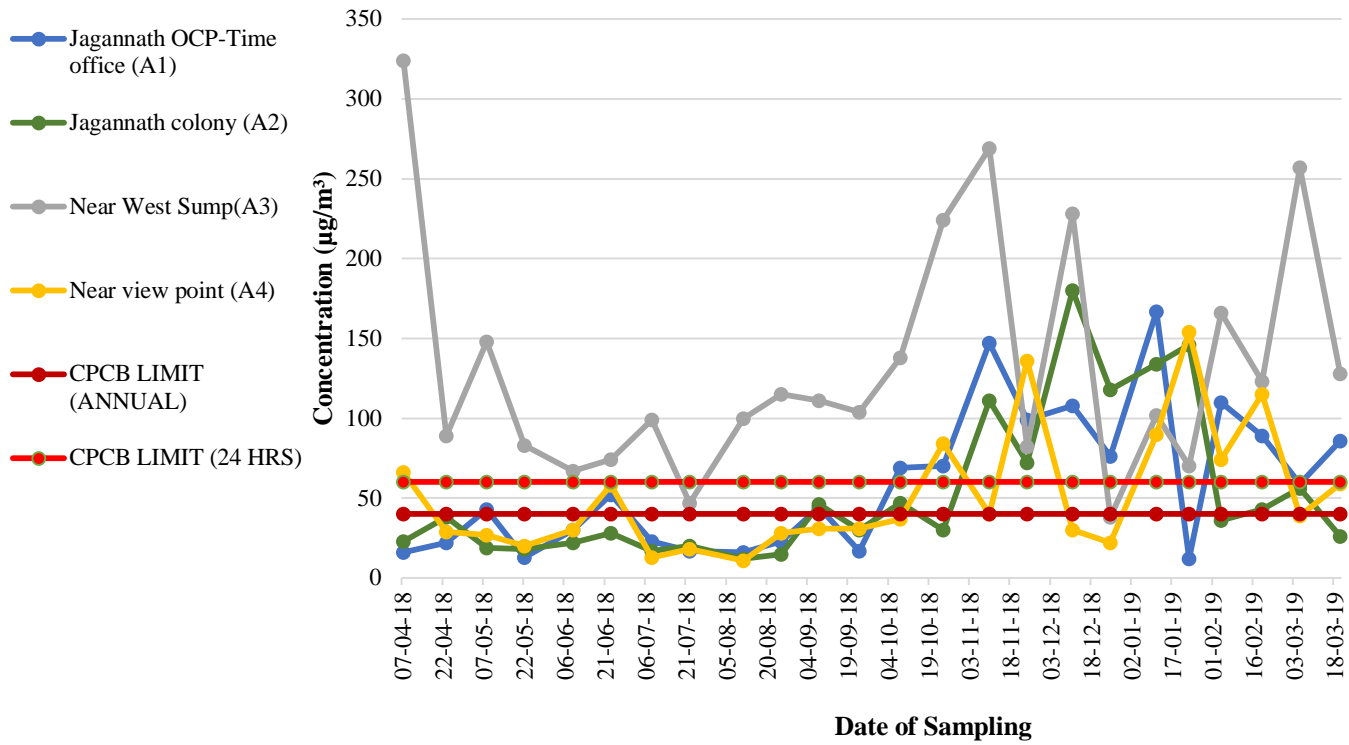
| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 09-04-18 | 47 | 324 | 1.67 | 7.81 | 363 |
| 22-04-18 | 59 | 89 | 2.04 | 1.8 | 124 |
| 07-05-18 | 23 | 148 | 2.81 | 11 | 202 |
| 21-05-18 | 38 | 83 | 2.87 | <6 | 125 |
| 09-06-18 | 31 | 67 | 2.22 | <6 | 139 |
| 22-06-18 | 41 | 74 | 1.08 | <6 | 143 |
| 07-07-18 | 29 | 99 | 1.74 | 6.08 | 145 |
| 21-07-18 | 16 | 47 | 1.63 | 8.80 | 80 |
| 10-08-18 | 28 | 100 | 4.27 | 6.65 | 131 |
| 24-08-18 | 32 | 115 | 11.64 | 7.48 | 204 |
| 07-09-18 | 49 | 111 | 1.67 | 8.30 | 146 |
| 22-09-18 | 32 | 104 | 8.13 | 10.43 | 122 |
| 07-10-18 | 23 | 138 | 3.58 | <6 | 176 |
| 24-10-18 | 76 | 224 | 2.31 | <6 | 346 |
| 09-11-18 | 141 | 269 | 1.76 | <6 | 318 |
| 22-11-18 | 51 | 82 | 2.82 | <6 | 113 |
| 11-12-18 | 39 | 228 | 12.41 | 32.46 | 369 |
| 25-12-18 | 23 | 38 | 15.23 | 13.01 | 72 |
| 12-01-19 | 51 | 102 | 38.08 | 36.26 | 244 |
| 22-01-19 | 32 | 70 | 14.63 | 23.69 | 115 |
| 04-02-19 | 51 | 166 | 24.99 | 33.77 | 241 |
| 19-02-19 | 93 | 123 | 12.51 | 29.22 | 219 |
| 05-03-19 | 82 | 257 | 15.02 | 20.12 | 292 |
| 20-03-19 | 73 | 128 | 13.50 | 17.76 | 169 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 141 | 324 | 38.08 | 36.26 | 369 |
| Minimum | 16 | 38 | 1.08 | 1.8 | 72 |
| Average | 48.33 | 132.75 | 8.27 | 16.15 | 191.58 |
| 95 Percentile | 91.35 | 267.20 | 23.52 | 34.26 | 360.45 |
| 98 Percentile | 118.92 | 298.70 | 32.05 | 35.46 | 366.24 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:4
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Near View Point (A4)

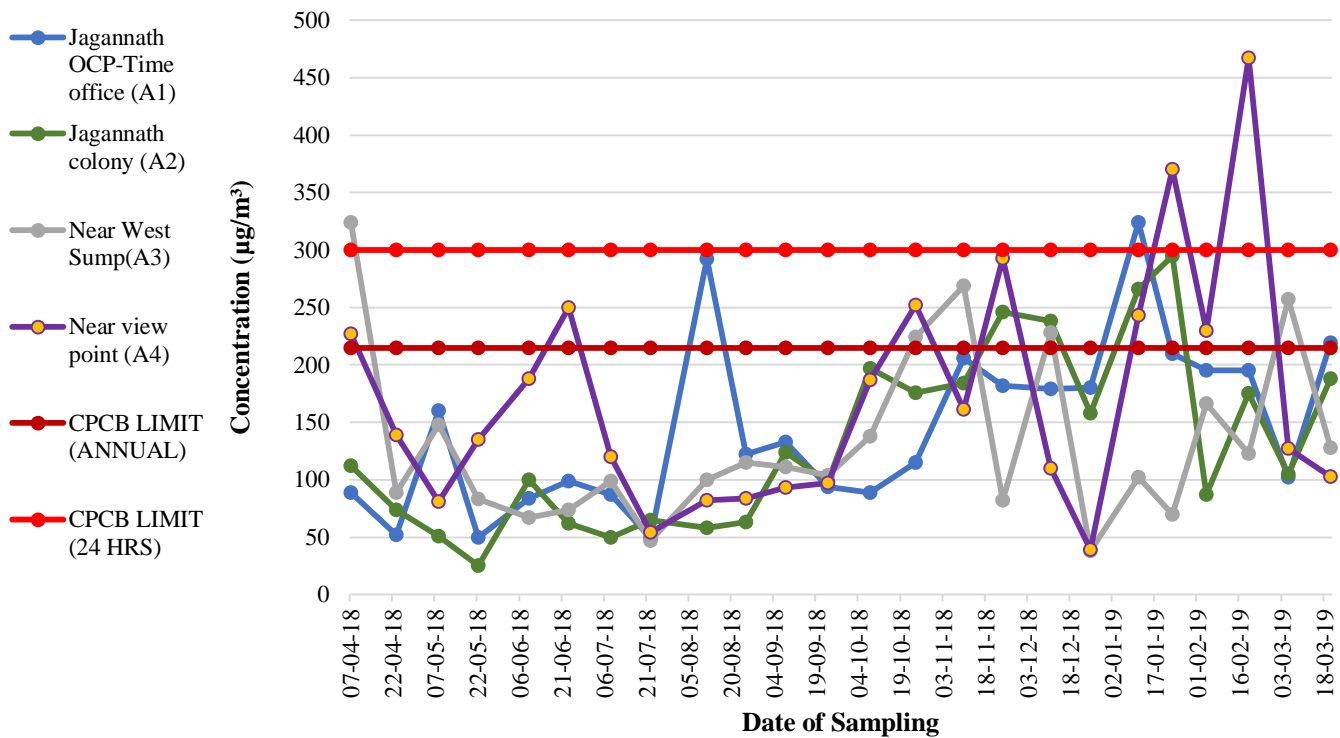
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 09-04-18 | 66 | 227 | 1.53 | 12.99 | 239 |
| 22-04-18 | 29 | 139 | 1.91 | 1.44 | 216 |
| 07-05-18 | 27 | 81 | 5.96 | 6 | 197 |
| 21-05-18 | 20 | 135 | 1.42 | 10 | 209 |
| 08-06-18 | 30 | 188 | 2.3 | <6 | 244 |
| 22-06-18 | 58 | 250 | 1.59 | <6 | 415 |
| 07-07-18 | 13 | 120 | 1.07 | <6 | 175 |
| 21-07-18 | 18 | 54 | 1.34 | 8.94 | 79 |
| 10-08-18 | 11 | 82 | 3.67 | 6.7 | 115 |
| 26-08-18 | 28 | 84 | 2.26 | <6 | 108 |
| 07-09-18 | 31 | 93 | 1.66 | <6 | 122 |
| 22-09-18 | 31 | 97 | 8.78 | <6 | 144 |
| 07-10-18 | 37 | 187 | 3.73 | <6 | 228 |
| 24-10-18 | 84 | 252 | 3.83 | 15.31 | 285 |
| 09-11-18 | 40 | 161 | 4.29 | 24.04 | 210 |
| 22-11-18 | 136 | 293 | 4.5 | 44.77 | 433 |
| 11-12-18 | 30 | 110 | 16.5 | 28.71 | 216 |
| 25-12-18 | 22 | 39 | 11.9 | 33.16 | 55 |
| 12-01-19 | 90 | 243 | 15.17 | 15.63 | 271 |
| 22-01-19 | 154 | 370 | 12.59 | 31.12 | 400 |
| 04-02-19 | 74 | 230 | 19.16 | 36.7 | 311 |
| 19-02-19 | 115 | 467 | 10.38 | 40.44 | 700 |
| 05-03-19 | 39 | 127 | 11.9 | 25.2 | 294 |
| 20-03-19 | 59 | 103 | 11.28 | 15.29 | 155 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 154 | 467 | 19.16 | 44.77 | 700 |
| Minimum | 11 | 39 | 1.07 | 1.44 | 55 |
| Average | 51.75 | 172.16 | 6.613 | 20.96 | 242.54 |
| 95 Percentile | 132.85 | 358.45 | 16.30 | 41.30 | 430.30 |
| 98 Percentile | 145.72 | 422.38 | 17.93 | 43.38 | 577.18 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

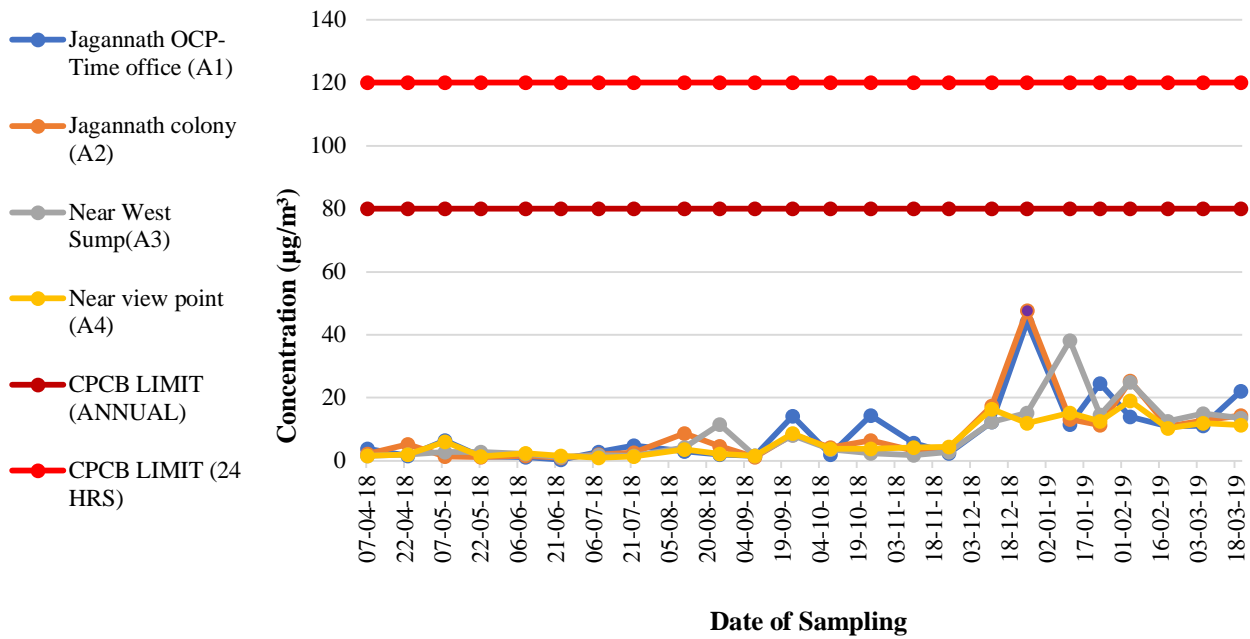
Graph showing PM2.5 of Jagannath OCP



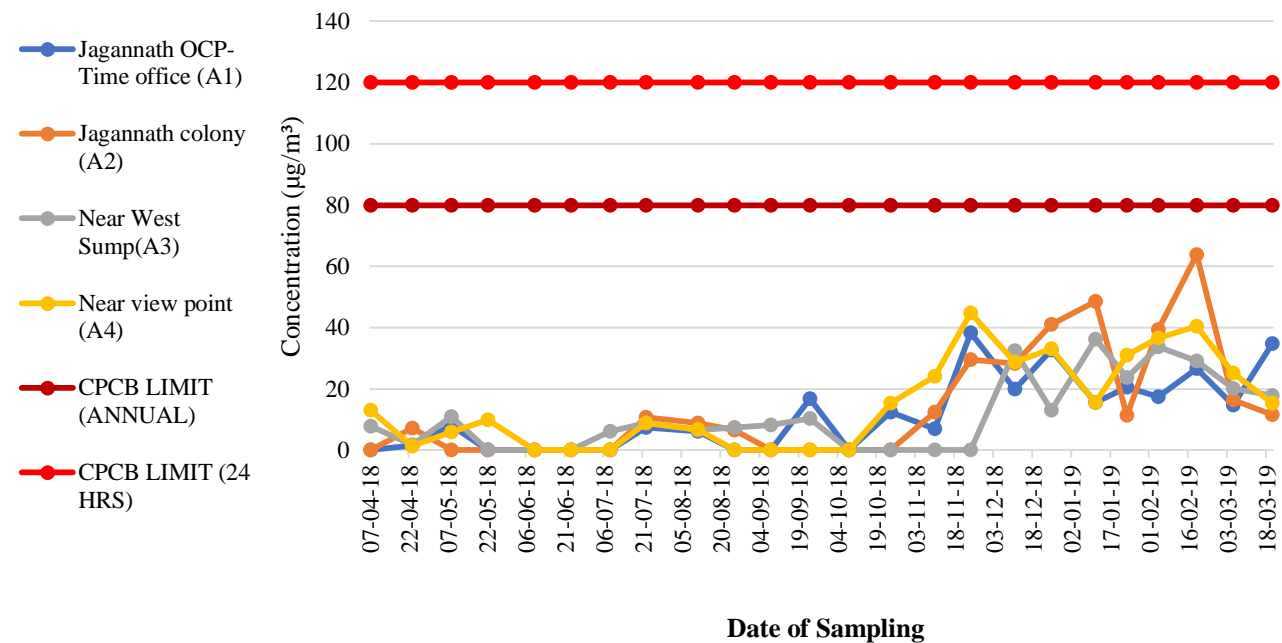
Graph showing PM10 of Jagannath OCP



Graph showing SO_x of Jagannath OCP



Graph showing NO_x of Jagannath OCP



Graph showing SPM of Jagannath OCP

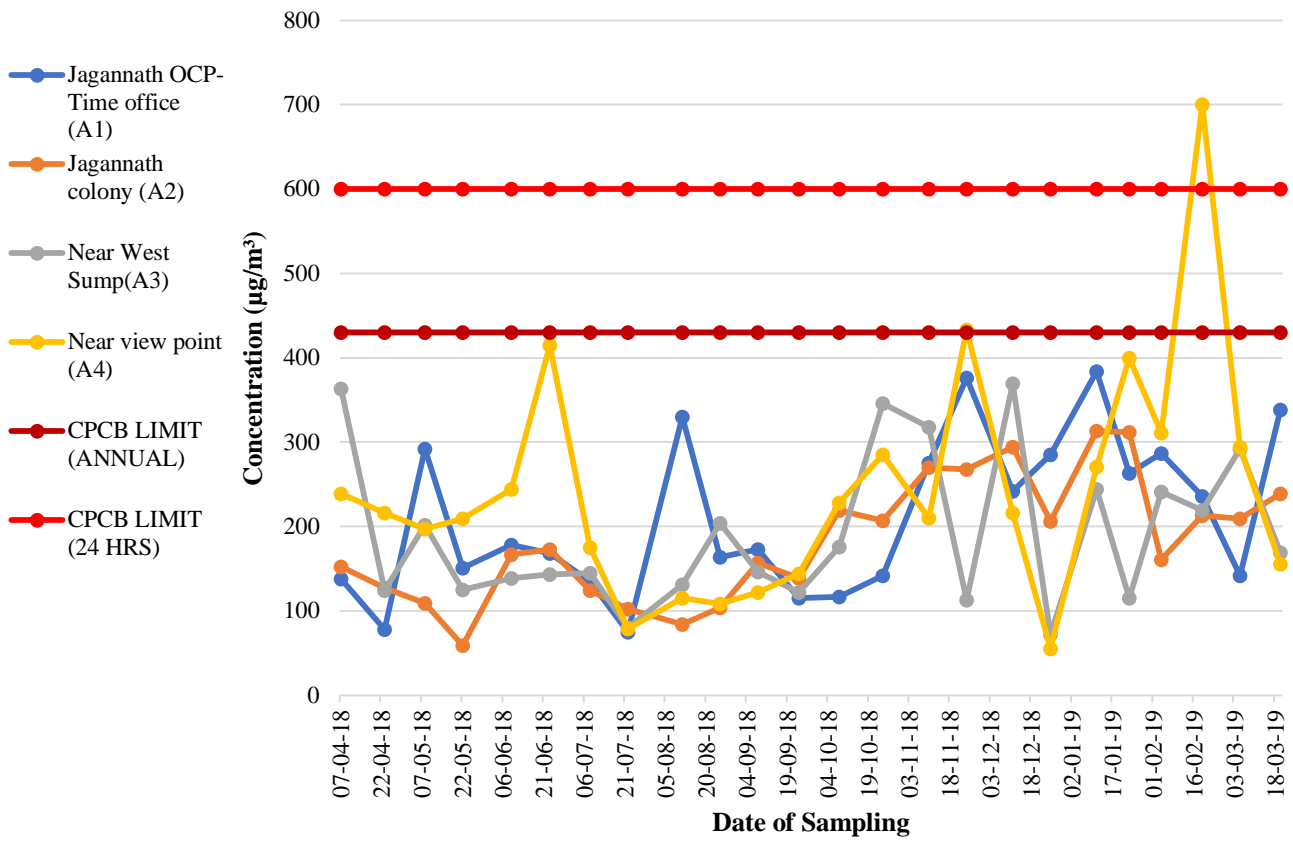


Table:5
Area: Jagannath Area
Project: Ananta OCP
Monitoring Station: Near West Sump, JNC

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 09-04-18 | 18 | 173 | 1.23 | <6 | 224 |
| 23-04-18 | 20 | 135 | 6.04 | 10.12 | 335 |
| 08-05-18 | 15 | 141 | 10.81 | 8 | 261 |
| 23-05-18 | 10 | 64 | 2.55 | <6 | 103 |
| 09-06-18 | 17 | 179 | 3.98 | <6 | 391 |
| 24-06-18 | 52 | 116 | 1.88 | <6 | 182 |
| 08-07-18 | 20 | 92 | 2.51 | 6.49 | 207 |
| 22-07-18 | 21 | 69 | 2.63 | 9.29 | 96 |
| 11-08-18 | 53 | 66 | 4.50 | 12.71 | 85 |
| 25-08-18 | 17 | 77 | 2.77 | 6.39 | 109 |
| 08-09-18 | 54 | 192 | 4.42 | 7.66 | 252 |
| 23-09-18 | 13 | 78 | 3.85 | 7.66 | 127 |
| 08-10-18 | 64 | 268 | 3.54 | 13.28 | 286 |
| 27-10-18 | 114 | 363 | 1.87 | 11.51 | 401 |
| 10-11-18 | 108 | 206 | 1.79 | <6 | 300 |
| 24-11-18 | 14 | 77 | 2.30 | 8.18 | 210 |
| 12-12-18 | 51 | 76 | 21.14 | 32.11 | 168 |
| 26-12-18 | 40 | 141 | 22.73 | 35.64 | 151 |
| 11-01-19 | 150 | 192 | 26.44 | 30.35 | 346 |
| 24-01-19 | 43 | 190 | 10.54 | 10.86 | 211 |
| 02-02-19 | 162 | 227 | 11.61 | 21.08 | 273 |
| 18-02-19 | 139 | 360 | 12.41 | 23.27 | 623 |
| 04-03-19 | 48 | 92 | 15.84 | 28.07 | 125 |
| 19-03-19 | 82 | 182 | 11.24 | 15.33 | 341 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 162 | 363 | 26.44 | 35.64 | 623 |
| Minimum | 10 | 64 | 1.23 | 6.39 | 85 |
| Average | 55.20 | 156.50 | 7.85 | 15.68 | 241.95 |
| 95 Percentile | 148.35 | 346.20 | 22.49 | 32.46 | 399.50 |
| 98 Percentile | 156.48 | 361.62 | 24.73 | 34.36 | 520.88 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard | 40 | 215 | 80 | 80 | 430 |

Table:6
Area: Jagannath Area
Project: Ananta OCP
Monitoring Station: Near Biswal Chowk

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|---------------|--------------|---------------|
| 09-04-18 | 66 | 121 | 03.36 | <6 | 153 |
| 23-04-18 | 26 | 166 | 05.51 | 10.29 | 438 |
| 08-05-18 | 40 | 133 | 01.67 | 07.00 | 310 |
| 22-05-18 | 25 | 161 | 02.49 | <6 | 340 |
| 09-06-18 | 29 | 103 | 02.43 | <6 | 217 |
| 23-06-18 | 20 | 99 | 01.82 | <6 | 243 |
| 08-07-18 | 31 | 108 | 02.15 | 07.16 | 158 |
| 22-07-18 | 15 | 75 | 03.14 | 08.96 | 116 |
| 11-08-18 | 51 | 110 | 03.55 | 08.94 | 131 |
| 25-08-18 | 26 | 97 | 18.33 | <6 | 128 |
| 08-09-18 | 71 | 171 | 01.51 | <6 | 234 |
| 23-09-18 | 57 | 127 | 10.62 | 29.34 | 167 |
| 08-10-18 | 88 | 227 | 02.79 | 14.70 | 247 |
| 27-10-18 | 171 | 298 | 01.71 | <6 | 380 |
| 10-11-18 | 51 | 272 | 03.60 | 06.62 | 324 |
| 24-11-18 | 19 | 344 | 02.14 | 08.00 | 481 |
| 12-12-18 | 54 | 83 | 18.33 | 36.61 | 130 |
| 26-12-18 | 27 | 113 | 41.12 | 46.84 | 204 |
| 11-01-19 | 138 | 249 | 43.82 | 53.95 | 363 |
| 22-01-19 | 52 | 175 | 13.46 | 11.79 | 222 |
| 02-02-19 | 173 | 225 | 09.94 | 17.51 | 263 |
| 18-02-19 | 99 | 452 | 11.18 | 23.23 | 729 |
| 04-03-19 | 56 | 246 | 11.38 | 45.40 | 314 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 173 | 452 | 43.82 | 53.95 | 729 |
| Minimum | 15 | 75 | 1.51 | 6.62 | 116 |
| Average | 60.21 | 180.65 | 9.39 | 21.02 | 273.56 |
| 95 Percentile | 167.70 | 339.40 | 38.84 | 48.61 | 476.7 |
| 98 Percentile | 172.12 | 404.48 | 42.632 | 51.81 | 619.88 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:7
Area: Jagannath Area
Project: Ananta OCP
Monitoring Station: BCML Workshop

All values in $\mu\text{g}/\text{m}^3$

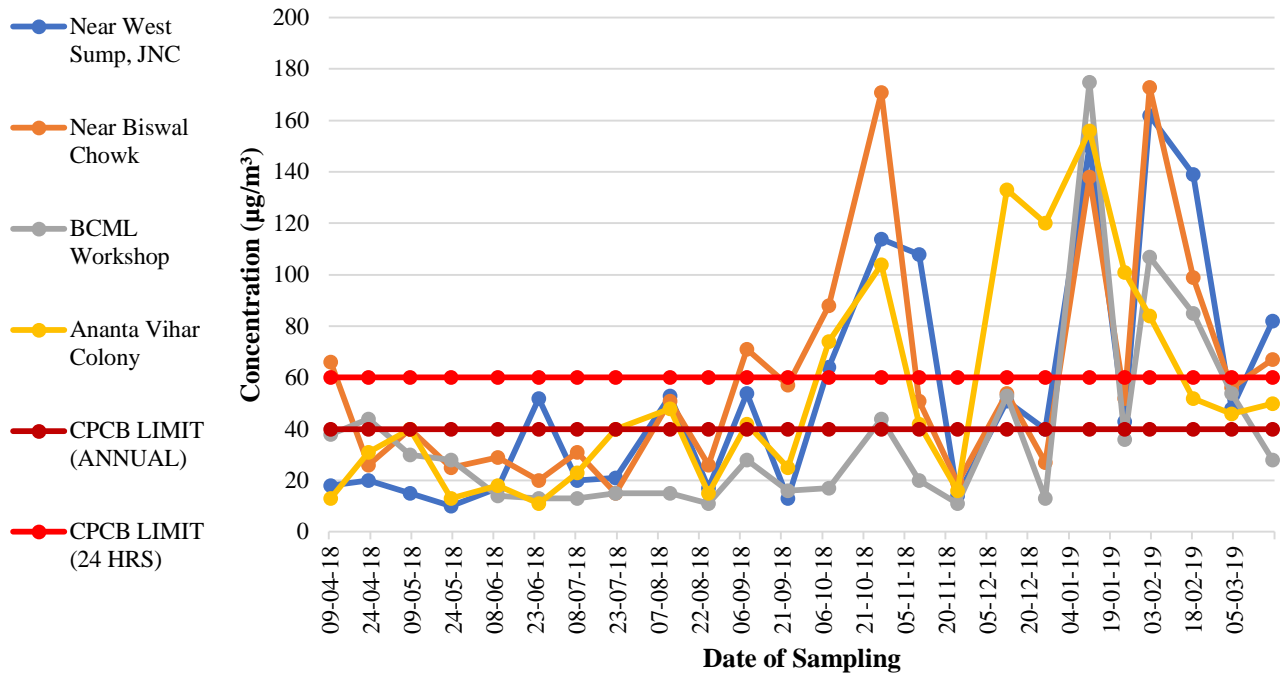
| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|---------------|---------------|
| 09-04-18 | 38 | 300 | 1.72 | 7.60 | 436 |
| 23-04-18 | 44 | 514 | 3.25 | 2.70 | 575 |
| 08-05-18 | 30 | 167 | 2.99 | 8.00 | 332 |
| 22-05-18 | 28 | 100 | 2.20 | 9 | 276 |
| 09-06-18 | 14 | 41 | 3.23 | <6 | 108 |
| 25-06-18 | 13 | 139 | 1.48 | 12.43 | 271 |
| 08-07-18 | 13 | 88 | 2.24 | <6 | 124 |
| 22-07-18 | 15 | 99 | 1.53 | 9.96 | 165 |
| 11-08-18 | 15 | 55 | 3.11 | 6.73 | 70 |
| 24-08-18 | 11 | 64 | 1.57 | <6 | 89 |
| 08-09-18 | 28 | 97 | 1.58 | <6 | 124 |
| 23-09-18 | 16 | 82 | 6.19 | 8.75 | 112 |
| 08-10-18 | 17 | 76 | 2.63 | <6 | 91 |
| 27-10-18 | 44 | 107 | 1.95 | <6 | 173 |
| 10-11-18 | 20 | 71 | 3.71 | <6 | 121 |
| 24-11-18 | 11 | 143 | 2.92 | 10.72 | 275 |
| 12-12-18 | 53 | 191 | 19.76 | 23.91 | 291 |
| 26-12-18 | 13 | 102 | 7.68 | 41.85 | 136 |
| 11-01-19 | 175 | 324 | 49.76 | 48.42 | 404 |
| 24-01-19 | 36 | 87 | 11.82 | 13.44 | 117 |
| 02-02-19 | 107 | 255 | 11.07 | 14.34 | 283 |
| 18-02-19 | 85 | 207 | 10.05 | 14.40 | 286 |
| 04-03-19 | 54 | 132 | 16.99 | 24.72 | 192 |
| 19-03-19 | 28 | 108 | 28.59 | 38.19 | 139 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 175 | 514 | 49.76 | 48.42 | 575 |
| Minimum | 11 | 41 | 1.48 | 2.7 | 70 |
| Average | 37.83 | 147.87 | 8.25 | 17.36 | 216.25 |
| 95 Percentile | 103.7 | 320.4 | 27.26 | 43.164 | 431.2 |
| 98 Percentile | 143.72 | 426.6 | 40.02 | 46.31 | 511.06 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:8
Area: Jagannath Area
Project: Ananta OCP
Monitoring Station: Ananta Vihar Colony

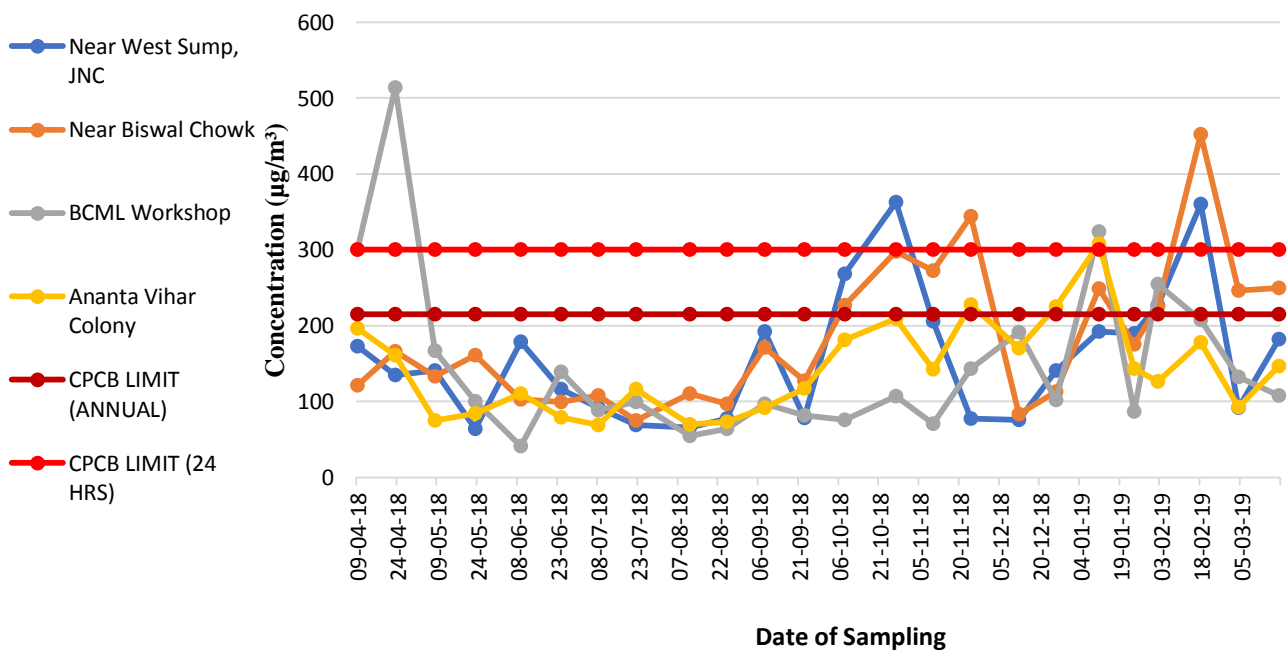
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 09-04-18 | 13 | 196 | 1.35 | <6 | 254 |
| 23-04-18 | 31 | 161 | 7.57 | 2.26 | 328 |
| 08-05-18 | 40 | 75 | 6.22 | 11.00 | 131 |
| 22-05-18 | 13 | 84 | 3.01 | <6 | 118 |
| 09-06-18 | 18 | 110 | 4.32 | <6 | 201 |
| 26-06-18 | 11 | 79 | 1.47 | 9.78 | 155 |
| 08-07-18 | 23 | 69 | 0.94 | <6 | 102 |
| 22-07-18 | 40 | 116 | 0.99 | <6 | 168 |
| 11-08-18 | 48 | 70 | 3.44 | <6 | 92 |
| 25-08-18 | 15 | 73 | 2.40 | 11.92 | 97 |
| 08-09-18 | 42 | 92 | 1.22 | <6 | 117 |
| 23-09-18 | 25 | 117 | 11.13 | 13.61 | 148 |
| 08-10-18 | 74 | 181 | 3.15 | <6 | 198 |
| 27-10-18 | 104 | 209 | 3.06 | 14.08 | 356 |
| 10-11-18 | 42 | 142 | 12.15 | <6 | 172 |
| 24-11-18 | 16 | 228 | 10.39 | 47.61 | 346 |
| 12-12-18 | 133 | 170 | 11.93 | 18.74 | 197 |
| 26-12-18 | 120 | 225 | 14.87 | 12.91 | 264 |
| 11-01-19 | 156 | 308 | 13.61 | 27.66 | 386 |
| 24-01-19 | 101 | 143 | 10.47 | 12.53 | 182 |
| 02-02-19 | 84 | 126 | 11.14 | 13.09 | 224 |
| 18-02-19 | 52 | 178 | 33.4 | 68.04 | 268 |
| 04-03-19 | 46 | 93 | 29.66 | 21.73 | 170 |
| 19-03-19 | 50 | 147 | 14.47 | 11.60 | 192 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 156 | 308 | 33.4 | 68.04 | 386 |
| Minimum | 11 | 69 | 0.94 | 2.26 | 92 |
| Average | 54.04 | 141.33 | 8.84 | 19.77 | 202.75 |
| 95 Percentile | 131.05 | 227.55 | 27.44 | 53.73 | 354.5 |
| 98 Percentile | 145.42 | 271.2 | 31.67 | 62.31 | 372.2 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

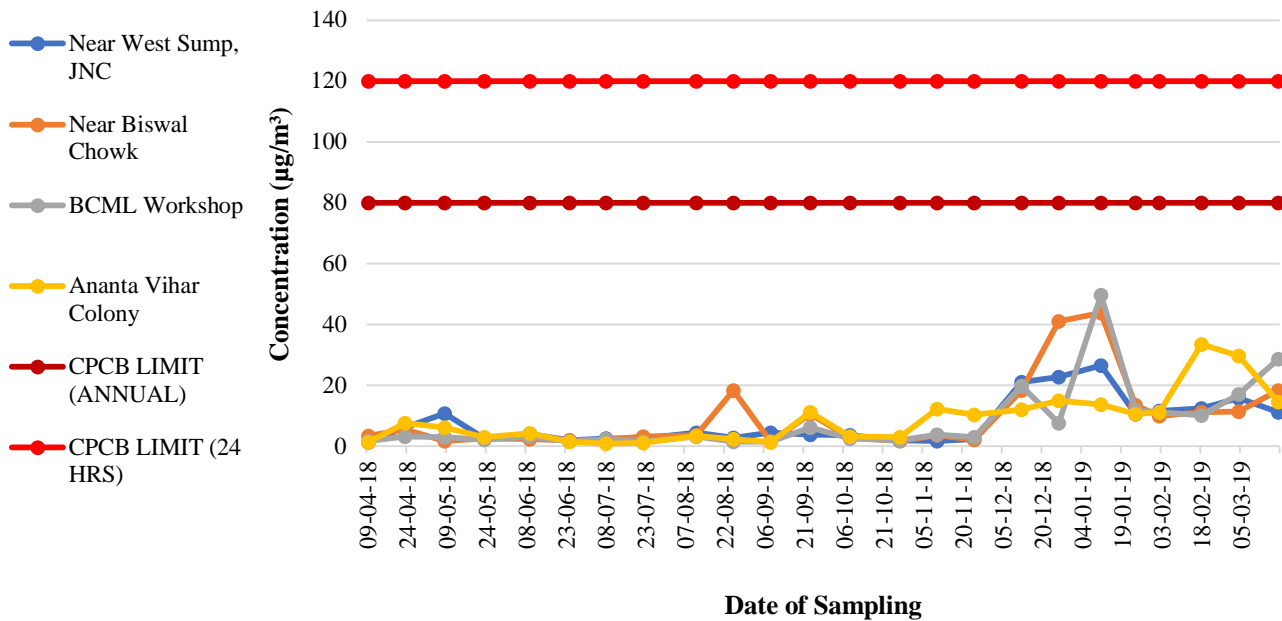
Graph showing PM2.5 of Ananta OCP



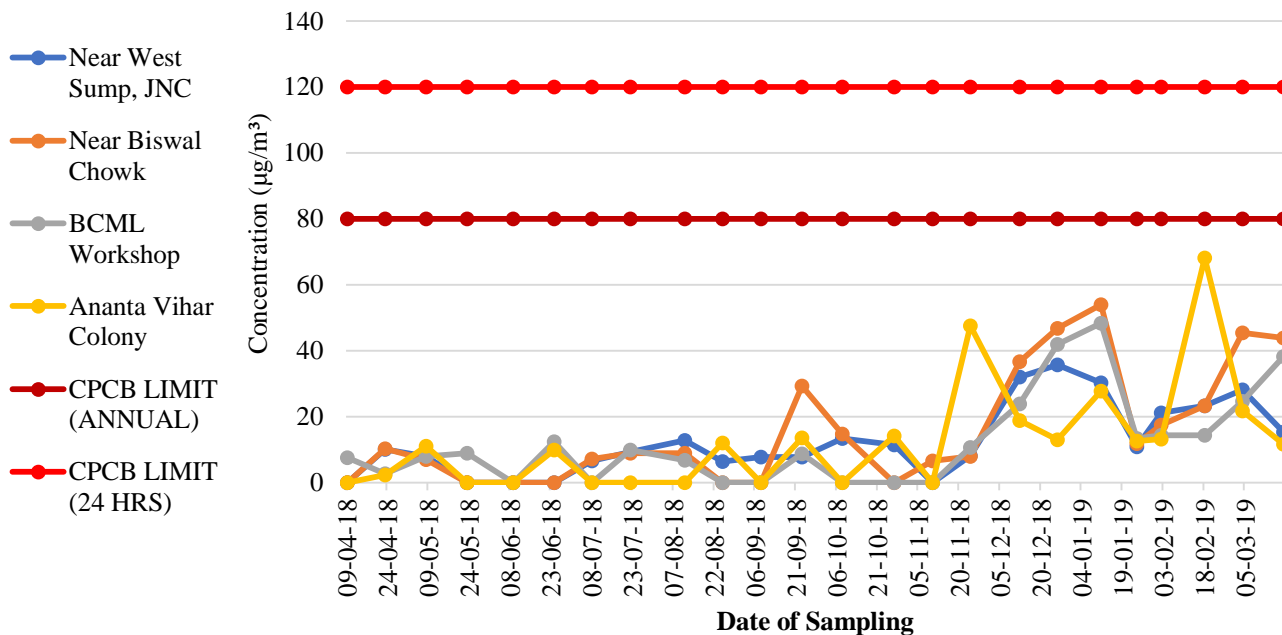
Graph showing PM10 of Ananta OCP



Graph showing SO_x of Ananta OCP



Graph showing NO_x of Ananta OCP



Graph showing SPM of Ananta OCP

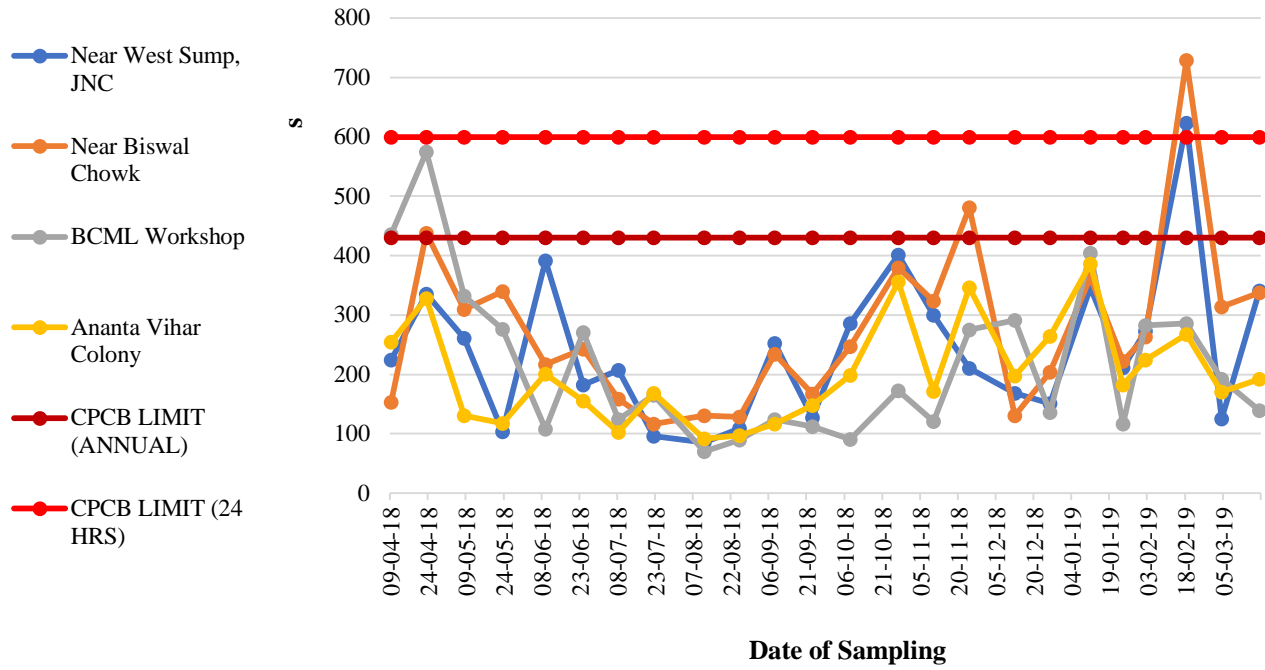


Table:9
Area: Bharatpur Area
Project: Bharatpur OCP
Monitoring Station: Near ETP

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 05/04/18 | 19 | 166 | 7.45 | 11.58 | 333 |
| 20/04/18 | 82 | 182 | 2.08 | 23.36 | 292 |
| 05/05/18 | 30 | 365 | 1.50 | <6 | 387 |
| 18/05/18 | 11 | 24 | 4.67 | <6 | 64 |
| 20/05/18 | 17 | 172 | 1.01 | 6.05 | 294 |
| 06/06/18 | 28 | 183 | 3.57 | <6 | 385 |
| 20/06/18 | 17 | 172 | 1.01 | 6.05 | 294 |
| 05/07/18 | 29 | 152 | 1.91 | <6 | 384 |
| 19/07/18 | 33 | 98 | 1.19 | 8.62 | 148 |
| 10/08/18 | -- | 49 | 5.35 | 6.51 | 76 |
| 22/08/18 | 18 | 94 | 2.58 | <6 | 125 |
| 05/09/18 | 23 | 82 | 2.54 | 6.48 | 102 |
| 20/09/18 | 24 | 64 | 6.11 | 7.83 | 88 |
| 05/10/18 | 104 | 205 | 7.03 | <6 | 253 |
| 22/10/18 | 54 | 169 | 1.95 | <6 | 242 |
| 07/11/18 | 22 | 288 | 12.46 | <6 | 382 |
| 21/11/18 | 113 | 150 | 7.50 | <6 | 230 |
| 10/12/18 | 48 | 184 | 24.37 | 27.77 | 210 |
| 24/12/18 | 124 | 162 | 10.50 | 18.10 | 181 |
| 13/01/19 | 139 | 180 | 11.58 | 28.64 | 236 |
| 24/01/19 | 112 | 140 | 11.96 | 22.59 | 171 |
| 11/02/19 | 88 | 271 | 17.44 | 23.56 | 331 |
| 22/02/19 | 79 | 124 | 12.44 | 43.81 | 312 |
| 12/03/19 | 76 | 104 | 10.70 | 22.75 | 146 |
| 28/03/19 | 119 | 237 | 13.22 | 12.56 | 269 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 139 | 365 | 24.37 | 43.81 | 387 |
| Minimum | 11 | 24 | 1.01 | 6.05 | 64 |
| Average | 58.70 | 160.45 | 7.24 | 17.26 | 237.40 |
| 95 Percentile | 123.25 | 284.60 | 16.59 | 32.43 | 384.80 |
| 98 Percentile | 132.10 | 328.04 | 21.04 | 39.25 | 386.04 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:10
Area: Bharatpur Area
Project: Bharatpur OCP
Monitoring Station: North West of the Mine

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 26/04/18 | 26 | 50 | 2.29 | 4.39 | 67 |
| 13/04/18 | 19 | 57 | 4.48 | 29.02 | 118 |
| 09/05/18 | 63 | 192 | 1.28 | 15 | 390 |
| 22/05/18 | -- | 99 | 2.49 | <6 | 212 |
| 13/06/18 | 26 | 109 | 4.10 | <6 | 325 |
| 24/06/18 | 42 | 74 | 1.26 | <6 | 169 |
| 09/07/18 | 26 | 77 | 1.02 | <6 | 127 |
| 20/07/18 | 27 | 75 | 1.92 | <6 | 108 |
| 12/08/18 | 11 | 77 | 2.62 | 6.75 | 106 |
| 26/08/18 | 19 | 87 | 1.2 | <6 | 113 |
| 09/09/18 | 59 | 183 | 1.39 | 8.39 | 233 |
| 24/09/18 | 57 | 133 | 6.62 | 10.82 | 167 |
| 09/10/18 | 60 | 210 | 9.30 | <6 | 529 |
| 26/10/18 | 41 | 178 | 2.31 | 7.75 | 203 |
| 11/11/18 | 133 | 257 | 14.03 | 42.03 | 408 |
| 25/11/18 | 13 | 146 | 6.97 | 26.48 | 243 |
| 10/12/18 | 44 | 156 | 18.77 | 34.76 | 185 |
| 24/12/18 | 16 | 123 | 13.77 | 12.18 | 175 |
| 13/01/19 | 144 | 221 | 14.15 | 14.21 | 282 |
| 25/01/19 | 157 | 389 | 17.92 | 34.29 | 447 |
| 11/02/19 | 161 | 259 | 10.51 | 24.70 | 429 |
| 22/02/19 | 36 | 135 | 10.54 | 10.52 | 219 |
| 12/03/19 | 83 | 126 | 14.27 | 51.97 | 195 |
| 28/03/19 | 92 | 267 | 18.39 | 13.04 | 367 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 161 | 389 | 18.77 | 51.97 | 529 |
| Minimum | 11 | 50 | 1.02 | 4.39 | 67 |
| Average | 58.91 | 153.33 | 7.56 | 20.37 | 242.37 |
| 95 Percentile | 155.70 | 265.80 | 18.32 | 44.02 | 444.30 |
| 98 Percentile | 159.24 | 332.88 | 18.60 | 48.78 | 491.28 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:11
Area: Bharatpur Area
Project: Bharatpur OCP
Monitoring Station: Near Civil Maintenance Office of Hingula Area

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 06-Apr-18 | 25 | 129 | 5.00 | <6 | 227 |
| 21-Apr-18 | 89 | 109 | 0.98 | 2.88 | 178 |
| 06-May-18 | 43 | 163 | 2.52 | <6 | 208 |
| 19-May-18 | 17 | 46 | 5.19 | <6 | 89 |
| 07-Jun-18 | 38 | 131 | 1.66 | <6 | 159 |
| 20-Jun-18 | 54 | 136 | 4.35 | 8.78 | 240 |
| 06-Jul-18 | 36 | 94 | 0.79 | <6 | 136 |
| 20-Jul-18 | 25 | 66 | 1.44 | 8.08 | 100 |
| 09-Aug-18 | 13 | 42 | 2.08 | <6 | 59 |
| 23-Aug-18 | 23 | 82 | 2.82 | 13.58 | 185 |
| 06-Sep-18 | 16 | 63 | 2.80 | 8.19 | 83 |
| 21-Sep-18 | 12 | 65 | 15.88 | 11.87 | 93 |
| 06-Oct-18 | 46 | 99 | 13.05 | 6.29 | 230 |
| 22-Oct-18 | 78 | 199 | 2.45 | <6 | 342 |
| 08-Nov-18 | 38 | 152 | 2.74 | <6 | 227 |
| 22-Nov-18 | 37 | 80 | 3.01 | 13.05 | 121 |
| 10-Dec-18 | 95 | 160 | 14.80 | 21.89 | 217 |
| 24-Dec-18 | 96 | 174 | 8.78 | 13.16 | 229 |
| 12-Jan-19 | 97 | 146 | 16.99 | 26.98 | 199 |
| 25-Jan-19 | 41 | 142 | 18.89 | 14.01 | 209 |
| 11-Feb-19 | 198 | 352 | 13.48 | 14.85 | 503 |
| 22-Feb-19 | 75 | 121 | 11.57 | 12.92 | 183 |
| 12-Mar-19 | 43 | 87 | 11.06 | 15.55 | 177 |
| 28-Mar-19 | 97 | 164 | 18.40 | 18.48 | 311 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 198 | 352 | 18.89 | 26.98 | 503 |
| Minimum | 12 | 42 | 0.79 | 2.88 | 59 |
| Average | 55.5 | 125.08 | 7.53 | 13.16 | 196.04 |
| 95 Percentile | 97.00 | 195.25 | 18.18 | 23.16 | 337.35 |
| 98 Percentile | 151.54 | 281.62 | 18.66 | 25.45 | 428.94 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:12
Area: Bharatpur Area
Project: Bharatpur OCP
Monitoring Station: Near View point (A4) Reported Only

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 07/05/18 | 27 | 81 | 5.96 | 6 | 197 |
| 21/05/18 | 20 | 135 | 1.42 | 10 | 209 |
| 08/06/18 | 30 | 188 | 2.30 | <6 | 244 |
| 22/06/18 | 58 | 250 | 1.59 | <6 | 415 |
| 07/07/18 | 13 | 120 | 1.07 | <6 | 175 |
| 21/07/18 | 18 | 54 | 1.34 | 8.94 | 79 |
| 10/08/18 | 11 | 82 | 3.67 | 6.7 | 155 |
| 26/08/18 | 28 | 84 | 2.26 | <6 | 108 |
| 07/09/18 | 31 | 93 | 1.66 | <6 | 122 |
| 22/09/18 | 31 | 97 | 8.78 | <6 | 144 |
| 07/10/18 | 37 | 187 | 3.73 | <6 | 228 |
| 24/10/18 | 84 | 252 | 3.82 | 15.31 | 285 |
| 09/11/18 | 40 | 161 | 4.29 | 24.04 | 210 |
| 22/11/18 | 136 | 293 | 4.50 | 44.77 | 433 |
| 11/12/18 | 30 | 110 | 16.50 | 28.71 | 216 |
| 25/12/18 | 22 | 39 | 11.90 | 33.16 | 55 |
| 12/01/19 | 90 | 243 | 15.17 | 15.63 | 271 |
| 22/01/19 | 154 | 370 | 12.59 | 31.12 | 400 |
| 04/02/19 | 74 | 230 | 19.16 | 36.70 | 311 |
| 19/02/19 | 115 | 567 | 10.38 | 40.44 | 700 |
| 05/03/19 | 39 | 127 | 11.90 | 25.20 | 294 |
| 20/03/19 | 59 | 103 | 11.28 | 15.29 | 155 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 154 | 567 | 19.16 | 44.77 | 700 |
| Minimum | 11 | 39 | 1.07 | 6 | 55 |
| Average | 52.13 | 175.72 | 7.06 | 22.80 | 245.72 |
| 95 Percentile | 134.95 | 366.15 | 16.43 | 41.74 | 432.10 |
| 98 Percentile | 146.44 | 484.26 | 18.04 | 43.55 | 587.86 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:13
Area: Bharatpur Area
Project: Bharatpur OCP
Monitoring Station: Project Office, Balaram OCP Reported Only

All values in $\mu\text{g}/\text{m}^3$

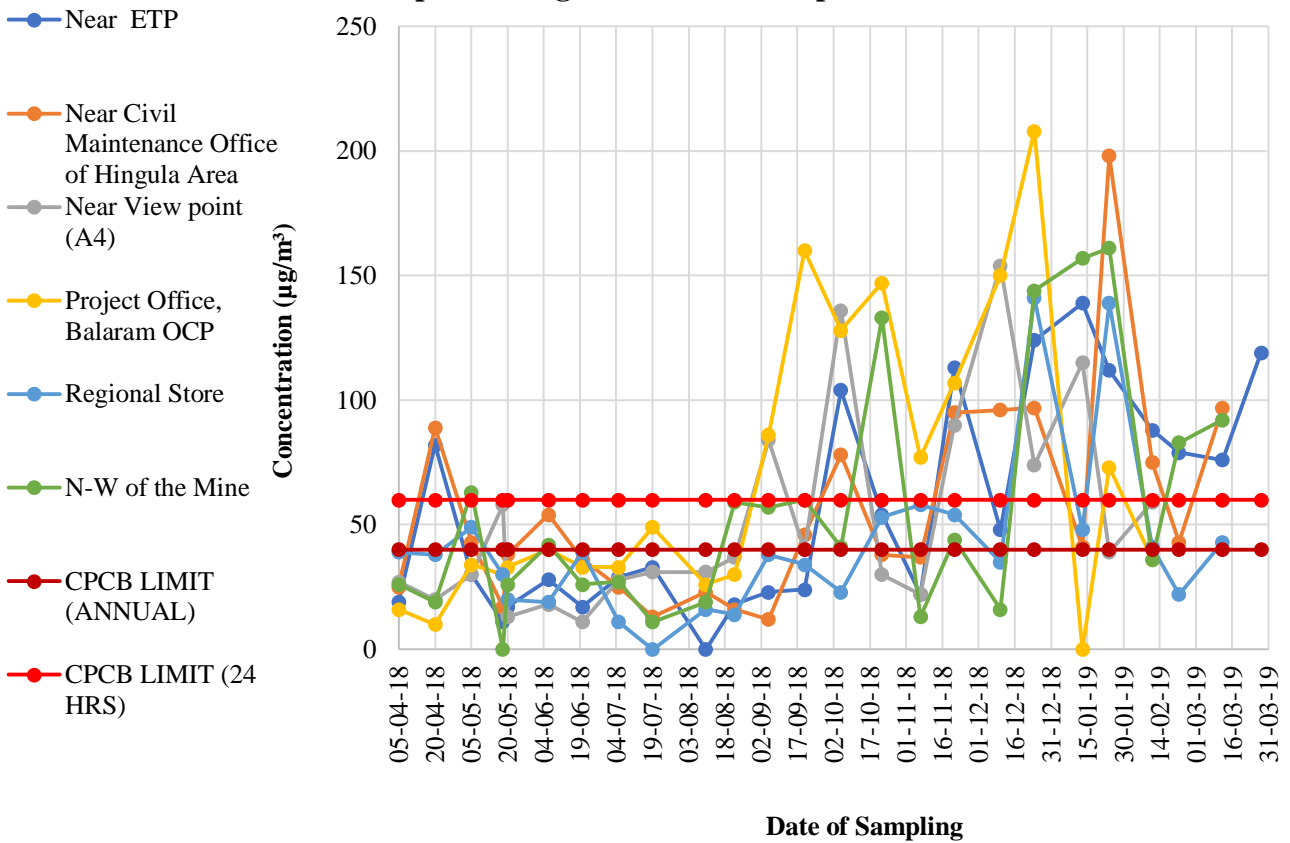
| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|--------------|---------------|
| 05/05/18 | 16 | 34 | 1.42 | <6 | 93 |
| 18/05/18 | 10 | 170 | 3.02 | 9.00 | 691 |
| 06/06/18 | 34 | 157 | 1.79 | <6 | 279 |
| 21/06/18 | 30 | 138 | 0.80 | <6 | 273 |
| 05/07/18 | 33 | 200 | 0.77 | <6 | 313 |
| 19/07/18 | 40 | 153 | 2.03 | <6 | 238 |
| 10/08/18 | 33 | 61 | 1.35 | <6 | 102 |
| 22/08/18 | 33 | 110 | 1.82 | 12.13 | 227 |
| 05/09/18 | 49 | 128 | 7.92 | <6 | 169 |
| 20/09/18 | 26 | 109 | 2.64 | 6.64 | 143 |
| 05/10/18 | 30 | 280 | 6.66 | <6 | 292 |
| 22/10/18 | 86 | 133 | 5.65 | <6 | 284 |
| 07/11/18 | 160 | 448 | 10.43 | 43.94 | 620 |
| 21/11/18 | 128 | 161 | 2.21 | 11.96 | 212 |
| 05/12/18 | 147 | 362 | 13.12 | 18.02 | 535 |
| 20/12/18 | 77 | 106 | 26.07 | 53.47 | 153 |
| 29/01/19 | 107 | 290 | 26.18 | 13.92 | 437 |
| 15/01/19 | 150 | 272 | 12.54 | 10.47 | 419 |
| 12/02/19 | 208 | 576 | 10.70 | 29.63 | 593 |
| 25/02/19 | -- | -- | -- | -- | -- |
| 08/03/19 | 73 | 115 | 10.33 | 14.65 | 368 |
| 27/03/19 | 36 | 139 | 20.38 | 13.79 | 226 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 208 | 576 | 26.18 | 53.47 | 691 |
| Minimum | 10 | 34 | 0.77 | 6 | 93 |
| Average | 71.71 | 197.23 | 7.99 | 18.74 | 317.47 |
| 95 Percentile | 160 | 448 | 26.07 | 47.75 | 620 |
| 98 Percentile | 188.8 | 524.8 | 26.13 | 51.18 | 662.60 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:14
Area: Bharatpur Area
Project: Bharatpur OCP
Monitoring Station: Regional Store

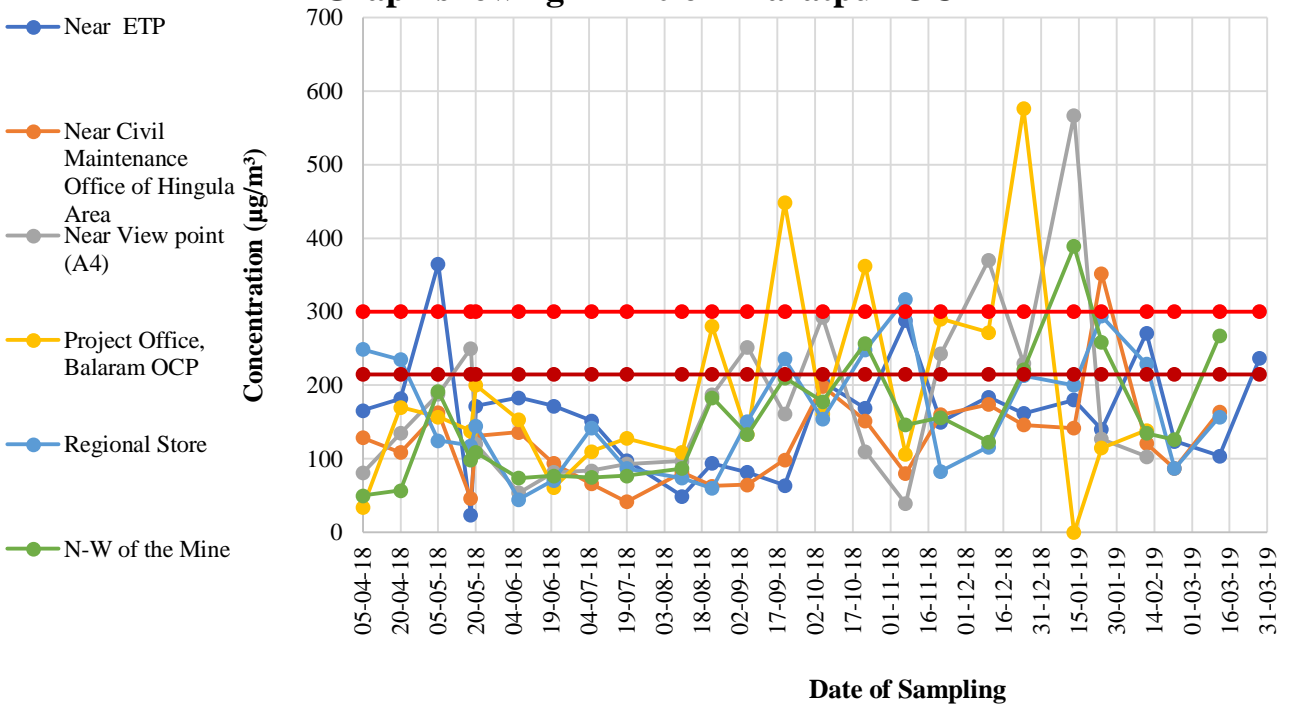
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 09/04/18 | 39 | 249 | 1.61 | 26.70 | 308 |
| 23/04/18 | 38 | 235 | 6.67 | 7.43 | 290 |
| 08/05/18 | 49 | 125 | 1.22 | <6 | 236 |
| 21/05/18 | 30 | 118 | 1.91 | <6 | 193 |
| 11/06/18 | 20 | 145 | 7.45 | <6 | 294 |
| 25/06/18 | 19 | 45 | 3.28 | 8.29 | 78 |
| 10/07/18 | 39 | 71 | 1.51 | <6 | 198 |
| 24/07/18 | 11 | 142 | 4.41 | 6.25 | 214 |
| 13/08/18 | -- | 87 | 6.50 | 9.92 | 109 |
| 27/08/18 | 16 | 74 | 3.11 | 11.03 | 104 |
| 09/09/18 | 14 | 60 | 1.58 | <6 | 75 |
| 25/09/18 | 38 | 151 | 2.55 | <6 | 176 |
| 10/10/18 | 34 | 236 | 8.03 | <6 | 434 |
| 26/10/18 | 23 | 154 | 9.71 | 29.55 | 261 |
| 12/11/18 | 53 | 248 | 10.7 | 50.37 | 374 |
| 26/11/18 | 58 | 317 | 4.71 | 6.70 | 465 |
| 10/12/18 | 54 | 83 | 15.97 | 24.85 | 160 |
| 24/12/18 | 35 | 116 | 9.66 | 35.07 | 205 |
| 13/01/19 | 141 | 213 | 27.24 | 20.44 | 230 |
| 25/01/19 | 48 | 200 | 13.44 | 13.85 | 321 |
| 11/02/19 | 139 | 294 | 12.45 | 18.65 | 476 |
| 22/02/19 | 41 | 229 | 12.56 | 25.57 | 343 |
| 12/03/19 | 22 | 87 | 16.23 | 47.64 | 139 |
| 28/03/19 | 43 | 157 | 15.31 | 25.26 | 267 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 141 | 317 | 27.24 | 50.37 | 476 |
| Minimum | 11 | 45 | 1.22 | 6.25 | 75 |
| Average | 43.65 | 159.83 | 8.24 | 21.62 | 247.91 |
| 95 Percentile | 130.9 | 287.25 | 16.19 | 48.18 | 460.35 |
| 98 Percentile | 140.12 | 306.42 | 22.17 | 49.49 | 470.94 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

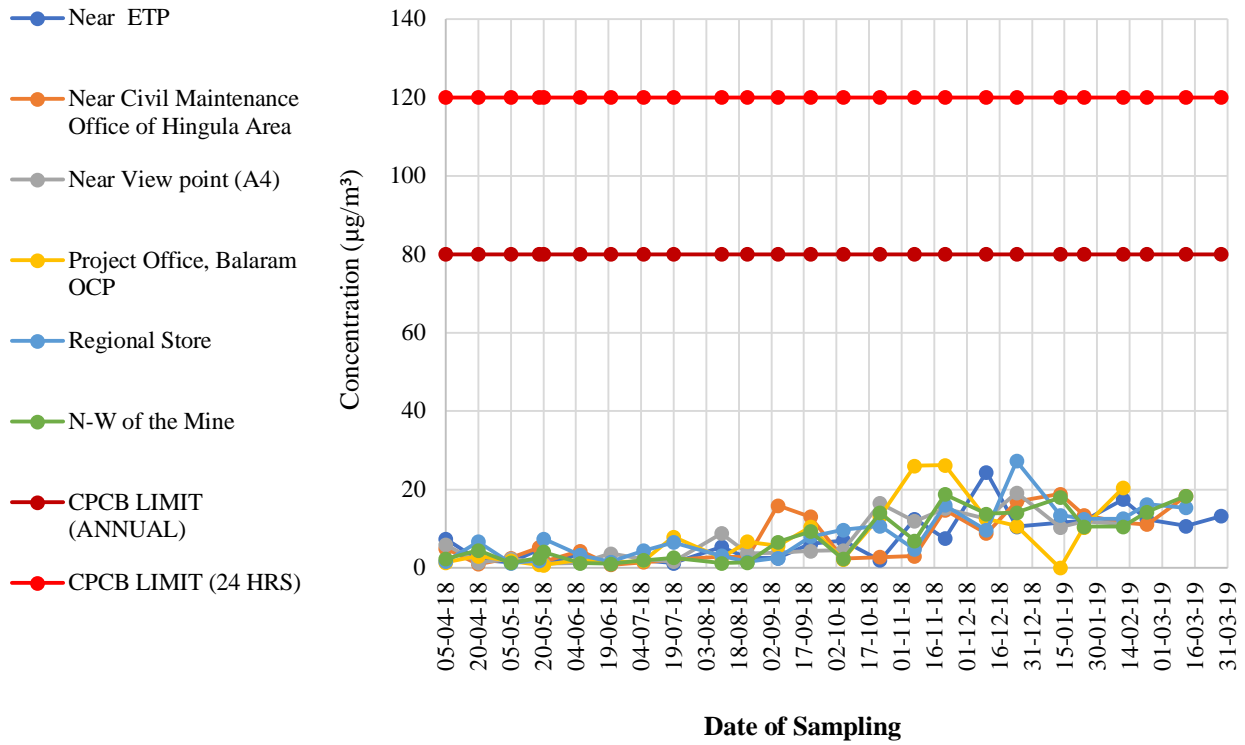
Graph showing PM 2.5 of Bharatpur OCP



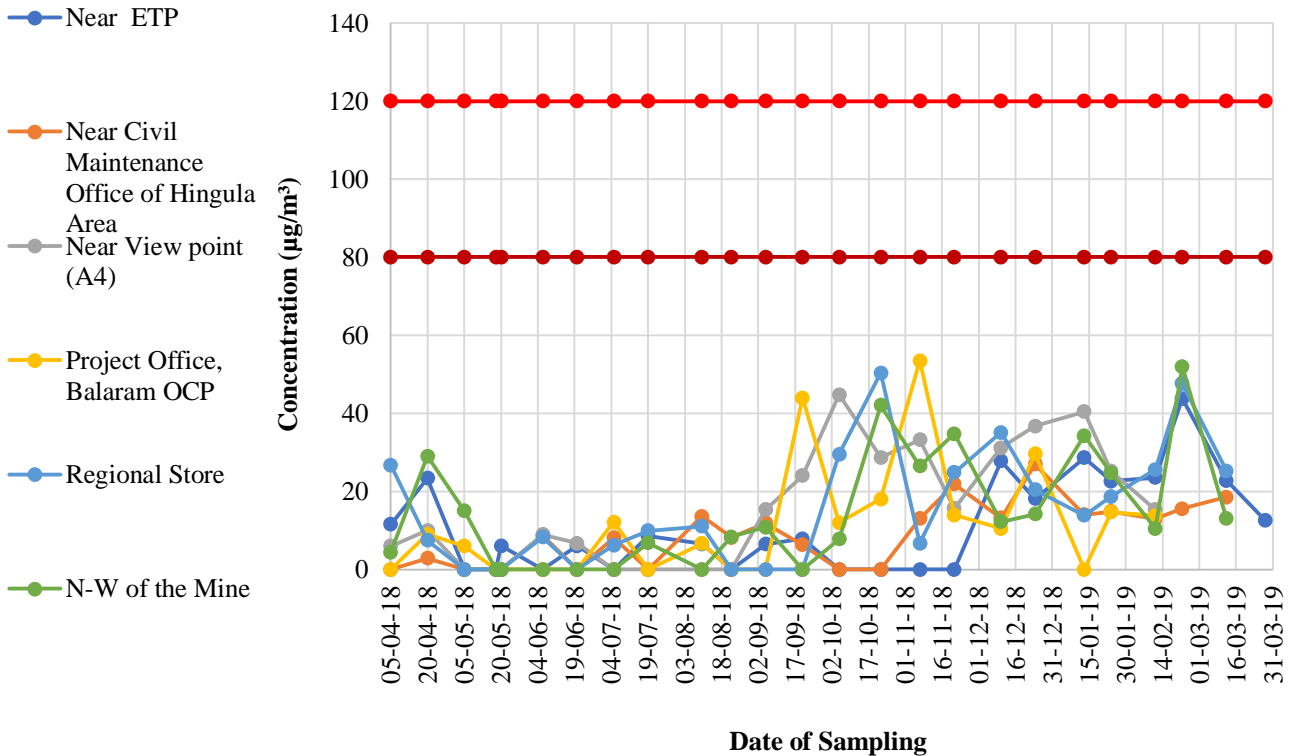
Graph showing PM10 of Bharatpur OCP



Graph showing SO_x of Bharatpur OCP



Graph showing NO_x of Bharatpur OCP



Graph showing SPM of Bharatpur OCP

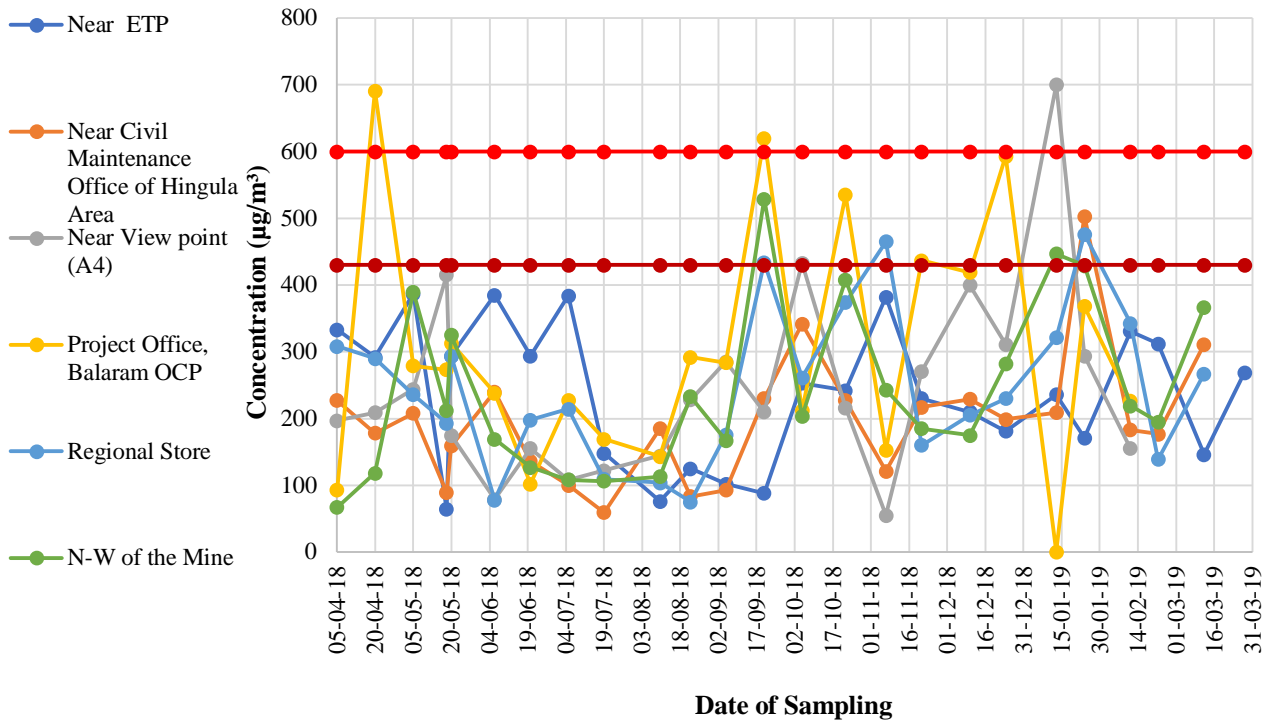


Table:15
Area: Bharatpur Area
Project: Chhendipada OCP
Monitoring Station: Near Site Office

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 03/04/18 | 25 | 109 | 1.11 | 15.39 | 228 |
| 18/04/18 | 56 | 167 | 3.25 | 3.40 | 195 |
| 03/05/18 | 78 | 90 | 1.92 | 14.00 | 193 |
| 16/05/18 | 41 | 168 | 3.84 | 8 | 193 |
| 04/06/18 | 38 | 61 | 1.88 | 7.01 | 132 |
| 18/06/18 | 16 | 142 | 1.40 | <6 | 243 |
| 03/07/18 | 11 | 68 | 1.48 | <6 | 143 |
| 17/07/18 | 20 | 57 | 1.33 | 11.48 | 99 |
| 06/08/18 | 16 | 69 | 2.62 | <6 | 89 |
| 20/08/18 | 15 | 71 | 1.21 | <6 | 102 |
| 03/09/18 | 58 | 134 | 1.75 | 9.00 | 175 |
| 18/09/18 | 53 | 108 | 5.73 | <6 | 144 |
| 03/10/18 | 27 | 72 | 9.05 | <6 | 105 |
| 15/10/18 | 27 | 64 | 3.65 | <6 | 86 |
| 05/11/18 | 13 | 104 | 2.66 | <6 | 129 |
| 19/11/18 | 36 | 69 | 2.27 | <6 | 134 |
| 04/12/18 | 42 | 127 | 10.66 | 26.53 | 191 |
| 18/12/18 | 15 | 46 | 13.82 | 23.2 | 141 |
| 14/01/19 | 56 | 136 | 21.49 | 12.18 | 186 |
| 25/01/19 | 27 | 136 | 10.45 | 15.95 | 227 |
| 05/02/19 | 169 | 271 | 13.53 | 27.99 | 330 |
| 16/02/19 | 98 | 194 | 10.61 | 30.22 | 231 |
| 06/03/19 | 48 | 80 | 20.61 | 51.71 | 100 |
| 21/03/19 | 36 | 94 | 13.88 | 18.31 | 131 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 169 | 271 | 21.49 | 51.71 | 330 |
| Minimum | 11 | 46 | 1.11 | 3.40 | 86 |
| Average | 42.54 | 109.87 | 6.675 | 18.29 | 163.62 |
| 95 Percentile | 95 | 190.10 | 19.60 | 36.66 | 241.2 |
| 98 Percentile | 136.34 | 235.58 | 21.08 | 45.69 | 289.98 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table: 16

Area: Bharatpur Area
Project: Chhendipada OCP
Monitoring Station: Near Fire Station

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO ₂ | NO _x | SPM |
|--------------------------|--------------|---------------|-----------------------|-----------------------|---------------|
| 03/04/18 | 53 | 106 | 1.36 | 10.58 | 200 |
| 18/04/18 | 39 | 50 | 4.31 | 5.43 | 112 |
| 03/05/18 | 39 | 62 | 0.58 | <6 | 164 |
| 16/05/18 | 24 | 126 | 1.55 | 6 | 157 |
| 04/06/18 | 52 | 75 | 1.79 | <6 | 138 |
| 18/06/18 | 31 | 193 | 2.40 | <6 | 268 |
| 03/07/18 | 16 | 61 | 2.17 | <6 | 133 |
| 17/07/18 | 21 | 69 | 2.49 | 6.96 | 166 |
| 06/08/18 | 19 | 56 | 3.63 | 6.47 | 79 |
| 20/08/18 | 24 | 121 | 2.97 | <6 | 145 |
| 03/09/18 | 29 | 86 | 1.88 | 13.22 | 117 |
| 18/09/18 | 39 | 96 | 5.25 | <6 | 129 |
| 03/10/18 | 25 | 40 | 7.41 | <6 | 54 |
| 15/10/18 | 10 | 24 | 12.01 | 7.83 | 56 |
| 05/11/18 | 29 | 145 | 3.95 | 24.17 | 187 |
| 19/11/18 | 97 | 204 | 5.66 | 35.04 | 306 |
| 04/12/18 | 75 | 253 | 20.57 | 30.91 | 381 |
| 18/12/18 | 17 | 42 | 36.27 | 40.14 | 119 |
| 14/01/19 | 73 | 193 | 16.12 | 16.61 | 255 |
| 21/01/19 | 19 | 141 | 11.94 | 28.2 | 171 |
| 05/02/19 | 70 | 168 | 13.45 | 20.97 | 236 |
| 16/02/19 | 54 | 292 | 28.91 | 25.69 | 466 |
| 06/03/19 | 59 | 107 | 15.58 | 39.59 | 157 |
| 21/03/19 | 56 | 249 | 12.28 | 13.95 | 372 |
| Brief Statistics | PM2.5 | PM10 | SO₂ | NO_x | SPM |
| Maximum | 97 | 292 | 36.27 | 40.14 | 466 |
| Minimum | 10 | 24 | 0.58 | 5.43 | 54 |
| Average | 40.41 | 123.29 | 8.93 | 19.51 | 190.33 |
| 95 Percentile | 74.70 | 252.40 | 27.65 | 39.70 | 379.65 |
| 98 Percentile | 86.88 | 274.06 | 32.88 | 39.96 | 426.9 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table: 17

Area: Bharatpur Area
Project: Chhendipada OCP
Monitoring Station: Mamuria Sahi

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|---------------|--------------|---------------|
| 03/04/18 | 54 | 100 | 0.75 | 6.65 | 361 |
| 18/04/18 | 33 | 47 | 6.44 | 3.31 | 117 |
| 03/05/18 | 36 | 159 | 9.73 | 11 | 190 |
| 16/05/18 | 24 | 90 | 2.29 | 7 | 160 |
| 04/06/18 | 22 | 82 | 3.73 | 19.51 | 217 |
| 18/06/18 | 14 | 41 | 0.46 | <6 | 69 |
| 03/07/18 | 30 | 90 | 1.43 | <6 | 162 |
| 17/07/18 | 18 | 52 | 2.33 | <6 | 77 |
| 06/08/18 | 16 | 79 | 7.34 | <6 | 93 |
| 20/08/18 | 14 | 112 | 1.75 | <6 | 142 |
| 03/09/18 | 23 | 136 | 1.55 | <6 | 186 |
| 18/09/18 | 41 | 109 | 7.37 | 16.39 | 153 |
| 03/10/18 | 44 | 133 | 9.2 | <6 | 258 |
| 15/10/18 | 35 | 51 | 6.82 | <6 | 77 |
| 05/11/18 | 24 | 136 | 1.84 | <6 | 153 |
| 19/11/18 | 76 | 120 | 7.32 | 17.55 | 348 |
| 04/12/18 | 46 | 447 | 21.68 | 43.58 | 599 |
| 18/12/18 | 21 | 59 | 16.02 | 37.7 | 132 |
| 14/01/19 | 88 | 217 | 18.45 | 32.2 | 264 |
| 21/01/19 | 90 | 160 | 15.46 | 11.77 | 248 |
| 05/02/19 | 73 | 125 | 11.17 | 17.37 | 172 |
| 16/02/19 | 37 | 103 | 12.65 | 65.7 | 163 |
| 06/03/19 | 58 | 176 | 15.23 | 33.52 | 194 |
| 21/03/19 | 58 | 128 | 19.47 | 15.1 | 287 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 90 | 447 | 21.68 | 65.7 | 599 |
| Minimum | 14 | 41 | 0.46 | 3.31 | 69 |
| Average | 40.62 | 123 | 8.35 | 22.55 | 200.91 |
| 95 Percentile | 86.20 | 210.85 | 19.317 | 50.21 | 359.05 |
| 98 Percentile | 89.08 | 341.2 | 20.66 | 59.50 | 489.52 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

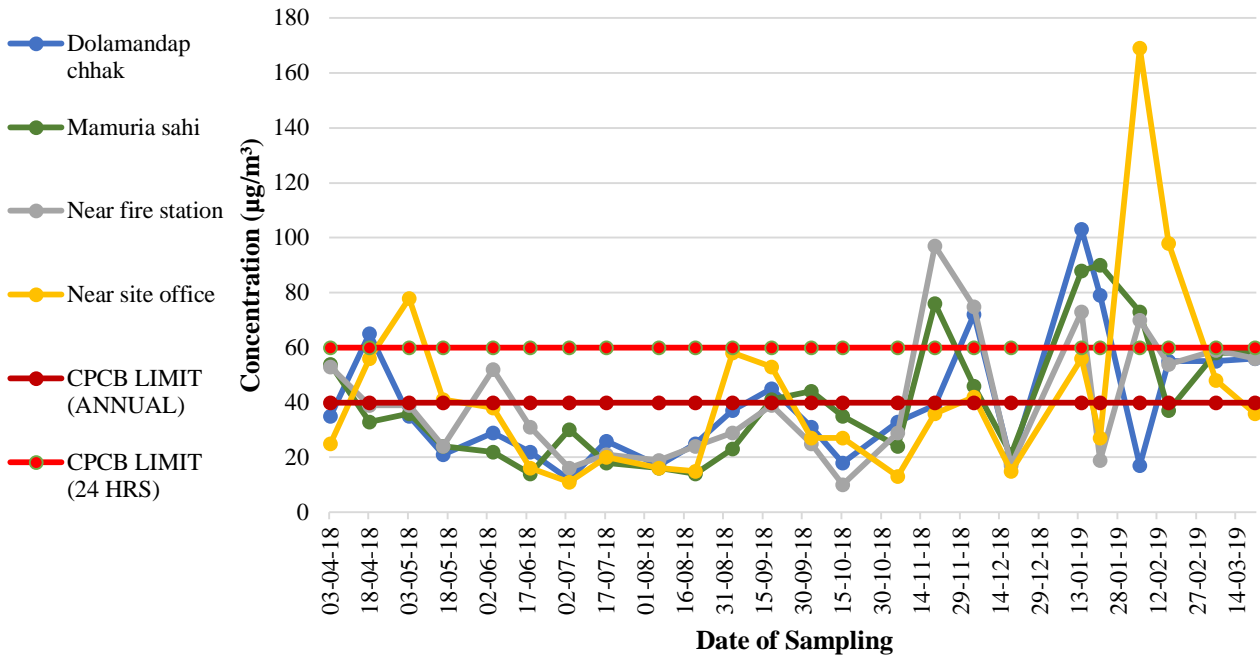
Table: 18

Area: Bharatpur Area
Project: Chhendipada OCP
Monitoring Station: Dolamandap Chhak

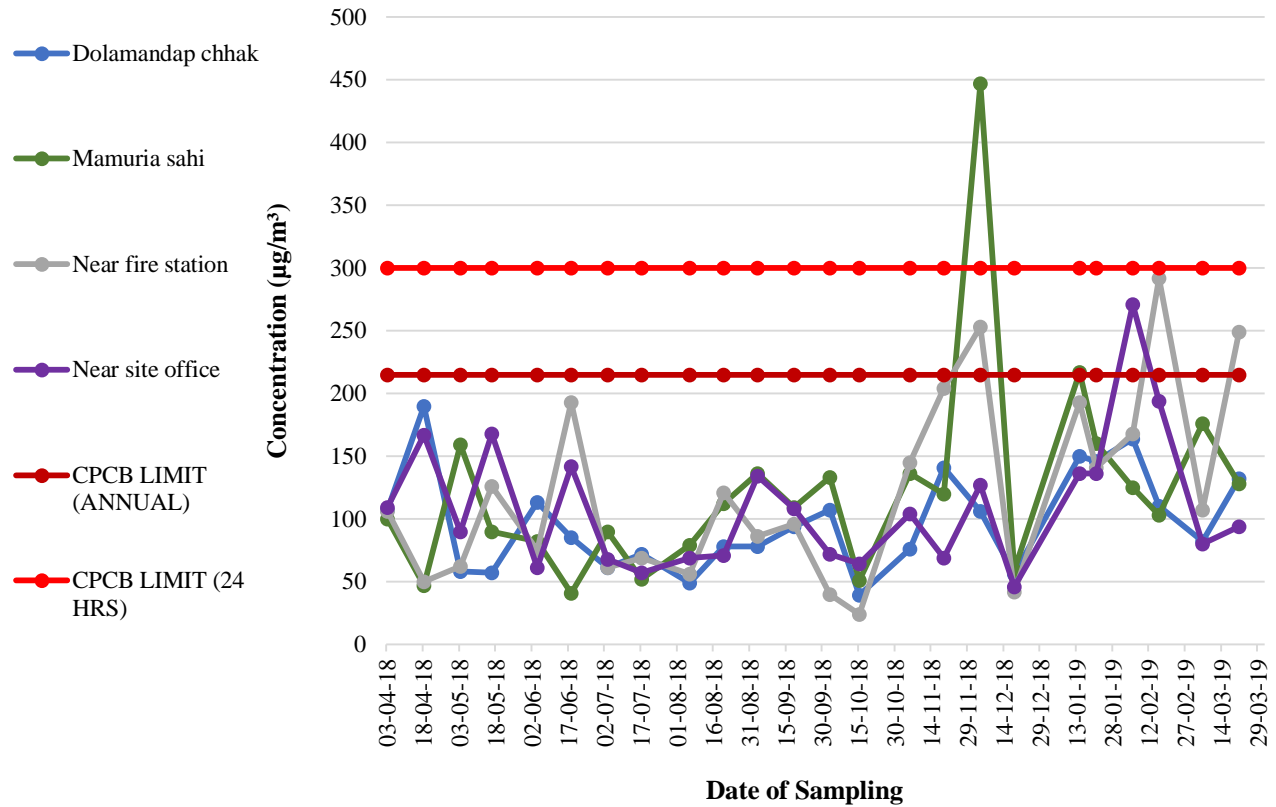
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 03/04/18 | 35 | 107 | 1.41 | <6 | 212 |
| 18/04/18 | 65 | 190 | 3.96 | 3.05 | 367 |
| 03/05/18 | 35 | 58 | 1.05 | <6 | 140 |
| 16/05/18 | 21 | 57 | 2.83 | 14 | 143 |
| 04/06/18 | 29 | 113 | 2.41 | <6 | 259 |
| 18/06/18 | 22 | 85 | 0.57 | <6 | 216 |
| 03/07/18 | 12 | 61 | 0.55 | <6 | 168 |
| 17/07/18 | 26 | 72 | 1.36 | <6 | 100 |
| 06/08/18 | 17 | 49 | 4.13 | <6 | 77 |
| 20/08/18 | 25 | 78 | 1.90 | 7.18 | 96 |
| 03/09/18 | 37 | 78 | 2.11 | <6 | 100 |
| 18/09/18 | 45 | 94 | 5.05 | 13.31 | 122 |
| 03/10/18 | 31 | 107 | 9.00 | 6.70 | 152 |
| 15/10/18 | 18 | 39 | 11.53 | 6.88 | 80 |
| 05/11/18 | 33 | 76 | 1.90 | 12.34 | 118 |
| 19/11/18 | 39 | 141 | 4.22 | 18.38 | 282 |
| 04/12/18 | 72 | 106 | 20.05 | 15.38 | 187 |
| 18/12/18 | 18 | 56 | 15.00 | 36.11 | 87 |
| 14/01/19 | 103 | 150 | 14.96 | 19.27 | 204 |
| 21/01/19 | 79 | 146 | 12.19 | 14.99 | 226 |
| 05/02/19 | 17 | 164 | 15.27 | 13.46 | 252 |
| 16/02/19 | 55 | 110 | 15.25 | 34.95 | 175 |
| 06/03/19 | 55 | 82 | 11.34 | 16.75 | 159 |
| 21/03/19 | 56 | 132 | 32.21 | 23.15 | 211 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 103 | 190 | 32.21 | 36.11 | 367 |
| Minimum | 12 | 39 | 0.55 | 3.05 | 77 |
| Average | 39.375 | 97.95 | 7.92 | 15.99 | 172.20 |
| 95 Percentile | 77.95 | 161.90 | 19.33 | 35.24 | 278.55 |
| 98 Percentile | 91.96 | 178.04 | 26.61 | 35.76 | 327.90 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

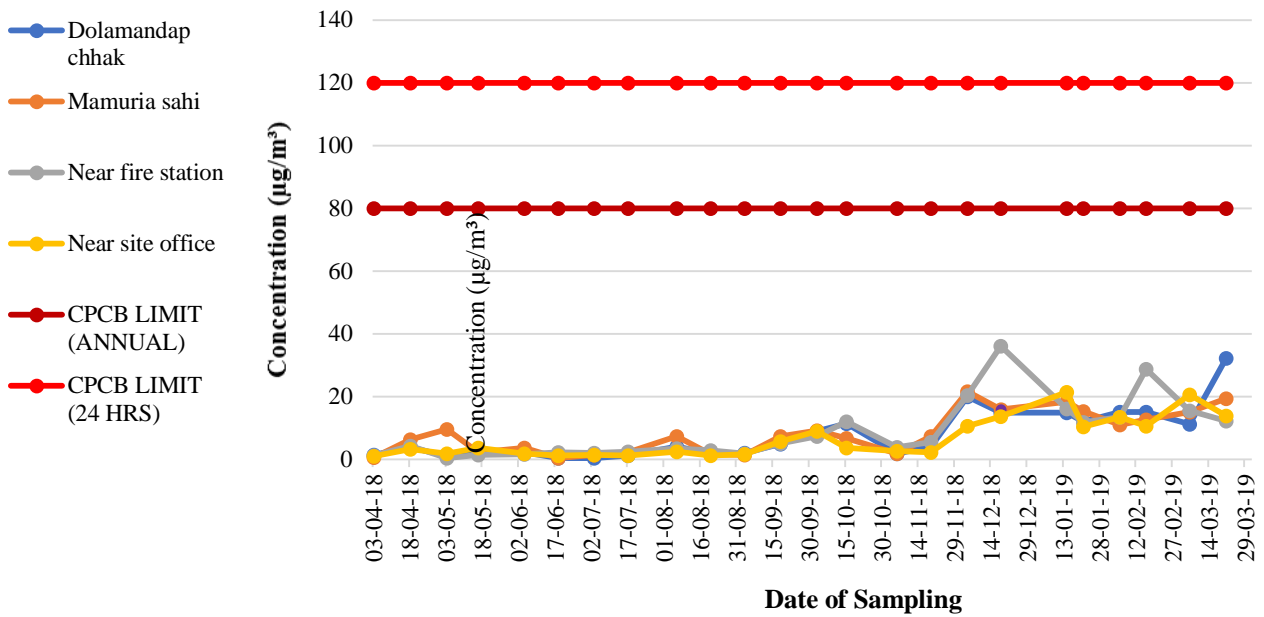
Graph showing PM2.5 of Chhendipada OCP



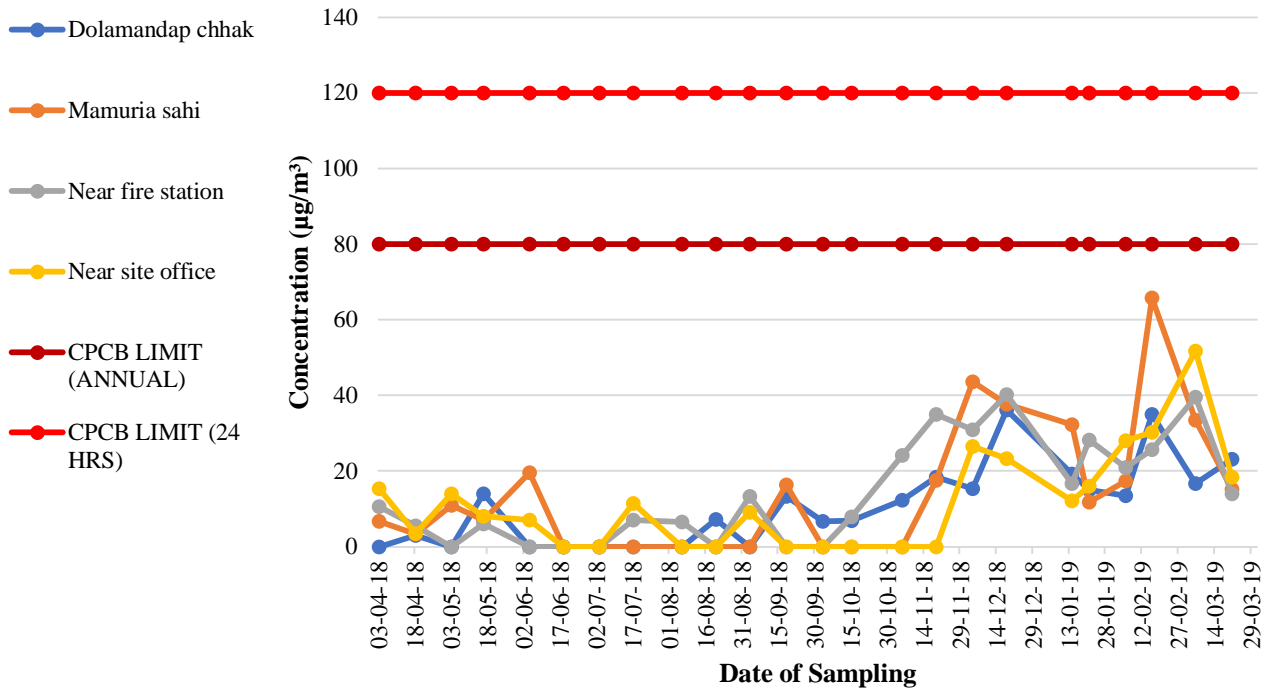
Graph showing PM10 of Chhendipada OCP



Graph showing SO_x of Chhendipada OCP



Graph showing NO_x of Chhendipada OCP



Graph showing SPM of Chhendipada OCP

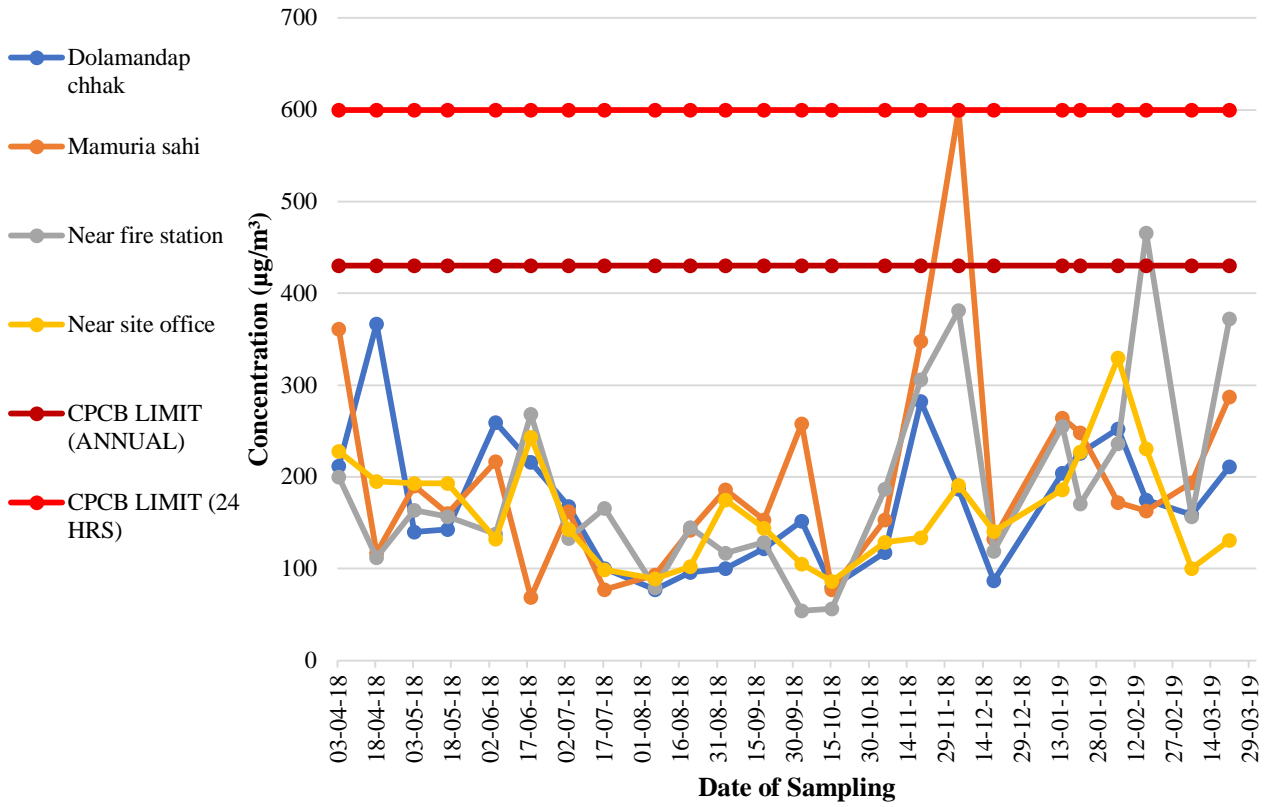


Table: 19

Area: Lingraj Area
Project: Lingraj OCP
Monitoring Station: Lingraj GM Office

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO ₂ | NO _x | SPM |
|--------------------------|--------------|---------------|-----------------------|-----------------------|---------------|
| 04/04/18 | 24 | 133 | 2.13 | 13.35 | 255 |
| 18/04/18 | 27 | 114 | 4.37 | 5.57 | 243 |
| 03/05/18 | 32 | 168 | 2.2 | 7 | 261 |
| 16/05/18 | 10 | 175 | 1.69 | <6 | 357 |
| 04/06/18 | 31 | 96 | 2.23 | <6 | 255 |
| 18/06/18 | 34 | 338 | 3.18 | <6 | 621 |
| 03/07/18 | 45 | 98 | 0.86 | <6 | 181 |
| 17/07/18 | 41 | 201 | 1.5 | 8.71 | 300 |
| 06/08/18 | 54 | 113 | 3.92 | <6 | 136 |
| 20/08/18 | 25 | 152 | 3.04 | 16.9 | 203 |
| 03/09/18 | 53 | 154 | 3.9 | <6 | 208 |
| 18/09/18 | 58 | 141 | 5.45 | 12.26 | 177 |
| 03/10/18 | 85 | 229 | 6.71 | 1.83 | 499 |
| 15/10/18 | 100 | 172 | 6.2 | 8.18 | 256 |
| 05/11/18 | 38 | 289 | 8.73 | 56.17 | 347 |
| 19/11/18 | 82 | 297 | 2.49 | 49.78 | 425 |
| 03/12/18 | 23 | 285 | 25.1 | 12.21 | 371 |
| 17/12/18 | 58 | 90 | 22.25 | 37.28 | 101 |
| 10/01/19 | 110 | 275 | 12.18 | 47.25 | 456 |
| 21/01/19 | 30 | 229 | 16.42 | 11.4 | 435 |
| 01/02/19 | 50 | 146 | 20.36 | 59.8 | 382 |
| 15/02/19 | 97 | 293 | 13.04 | 62.67 | 404 |
| 01/03/19 | 31 | 75 | 11.37 | 12.88 | 101 |
| 18/03/19 | 68 | 105 | 13.03 | 12.95 | 180 |
| Brief Statistics | PM2.5 | PM10 | SO₂ | NO_x | SPM |
| Maximum | 110 | 338 | 25.1 | 62.67 | 621 |
| Minimum | 10 | 75 | 0.86 | 1.83 | 101 |
| Average | 50.25 | 182 | 8.01 | 24.23 | 298.08 |
| 95 Percentile | 99.55 | 296.4 | 21.9665 | 60.23 | 492.55 |
| 98 Percentile | 105.4 | 319.14 | 23.78 | 61.69 | 564.88 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table: 20

Area: Lingraj Area
Project: Lingraj OCP
Monitoring Station: Near C.T. Road (Lingraj to Dera)

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|----------------|---------------|---------------|
| 03/04/18 | 39 | 138 | 1.08 | <6 | 260 |
| 18/04/18 | 50 | 69 | 2.42 | 13.72 | 142 |
| 03/05/18 | 26 | 106 | 4.41 | 21 | 194 |
| 16/05/18 | 17 | 72 | 1.24 | 7 | 151 |
| 04/06/18 | 31 | 119 | 1.42 | <6 | 236 |
| 18/06/18 | 19 | 197 | 0.65 | <6 | 403 |
| 03/07/18 | 23 | 69 | 1.36 | <6 | 111 |
| 17/07/18 | 29 | 97 | 4.07 | 10.31 | 141 |
| 06/08/18 | 15 | 110 | 3.56 | 9.94 | 138 |
| 20/08/18 | 24 | 85 | 3.95 | 8.37 | 117 |
| 03/09/18 | 52 | 197 | 2.31 | <6 | 225 |
| 18/09/18 | 28 | 107 | 5.27 | 38.15 | 133 |
| 03/10/18 | 40 | 148 | 6.22 | <6 | 158 |
| 15/10/18 | 41 | 297 | 6.65 | 6.77 | 384 |
| 05/11/18 | 81 | 234 | 10.23 | 32.47 | 300 |
| 19/11/18 | 57 | 267 | 6.43 | 14.95 | 371 |
| 03/12/18 | 16 | 332 | 26.55 | 12.81 | 389 |
| 17/12/18 | 46 | 72 | 29.66 | 46.05 | 85 |
| 10/01/19 | 168 | 239 | 16.03 | 55.06 | 400 |
| 24/01/19 | 102 | 233 | 15.56 | 11.56 | 289 |
| 01/02/19 | 160 | 216 | 12.55 | 13.65 | 316 |
| 15/02/19 | 48 | 179 | 27.92 | 64.44 | 360 |
| 01/03/19 | 53 | 209 | 14.24 | 17.41 | 366 |
| 18/03/19 | 97 | 217 | 10.44 | 35.81 | 413 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 168 | 332 | 29.66 | 64.44 | 413 |
| Minimum | 15 | 69 | 0.65 | 6.77 | 85 |
| Average | 52.58 | 167.04 | 8.925 | 23.30 | 253.41 |
| 95 Percentile | 151.3 | 292.5 | 27.7145 | 56.467 | 402.55 |
| 98 Percentile | 164.32 | 315.9 | 28.85 | 61.25 | 408.4 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table: 21

Area: Lingraj Area
Project: Lingraj OCP
Monitoring Station: Near North Side of Mine

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 04/04/18 | 27 | 77 | 2.92 | 24.18 | 108 |
| 19/04/18 | 79 | 140 | 4.45 | 3.78 | 334 |
| 04/05/18 | 64 | 165 | 1.32 | <6 | 305 |
| 17/05/18 | 31 | 126 | 3.29 | 7 | 189 |
| 19/05/18 | 29 | 98 | 0.57 | <6 | 253 |
| 05/06/18 | 30 | 144 | 1.74 | <6 | 239 |
| 19/06/18 | 29 | 98 | 0.57 | <6 | 253 |
| 04/07/18 | 36 | 82 | 0.87 | <6 | 196 |
| 18/07/18 | 26 | 65 | 0.97 | <6 | 111 |
| 07/08/18 | 33 | 56 | 1.42 | <6 | 80 |
| 21/08/18 | 25 | 92 | 9.05 | <6 | 147 |
| 04/09/18 | 45 | 123 | 2.53 | <6 | 152 |
| 19/09/18 | 25 | 113 | 14.56 | 36.28 | 142 |
| 04/10/18 | 71 | 296 | 7.93 | <6 | 327 |
| 16/10/18 | 71 | 172 | 6.98 | 8.43 | 205 |
| 06/11/18 | 30 | 231 | 2.26 | 43.55 | 325 |
| 19/11/18 | 11 | 219 | 4.52 | 29.14 | 330 |
| 03/12/18 | 142 | 289 | 28.18 | 23.3 | 480 |
| 17/12/18 | 38 | 106 | 73.08 | 41.17 | 152 |
| 10/01/19 | 139 | 217 | 21.23 | 30.80 | 330 |
| 24/01/19 | 108 | 261 | 25.25 | 17.64 | 327 |
| 01/02/19 | 99 | 397 | 22.2 | 47.42 | 662 |
| 15/02/19 | 115 | 513 | 16.8 | 54.35 | 952 |
| 01/03/19 | 23 | 347 | 20.93 | 47.13 | 474 |
| 18/03/19 | 59 | 183 | 20.23 | 23.31 | 317 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 142 | 513 | 73.08 | 54.35 | 952 |
| Minimum | 11 | 56 | 0.57 | 3.78 | 80 |
| Average | 56.583 | 188.87 | 12.12 | 29.52 | 303.41 |
| 95 Percentile | 135.4 | 389.5 | 27.74 | 49.84 | 634.7 |
| 98 Percentile | 140.62 | 459.64 | 52.42 | 52.54 | 818.6 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

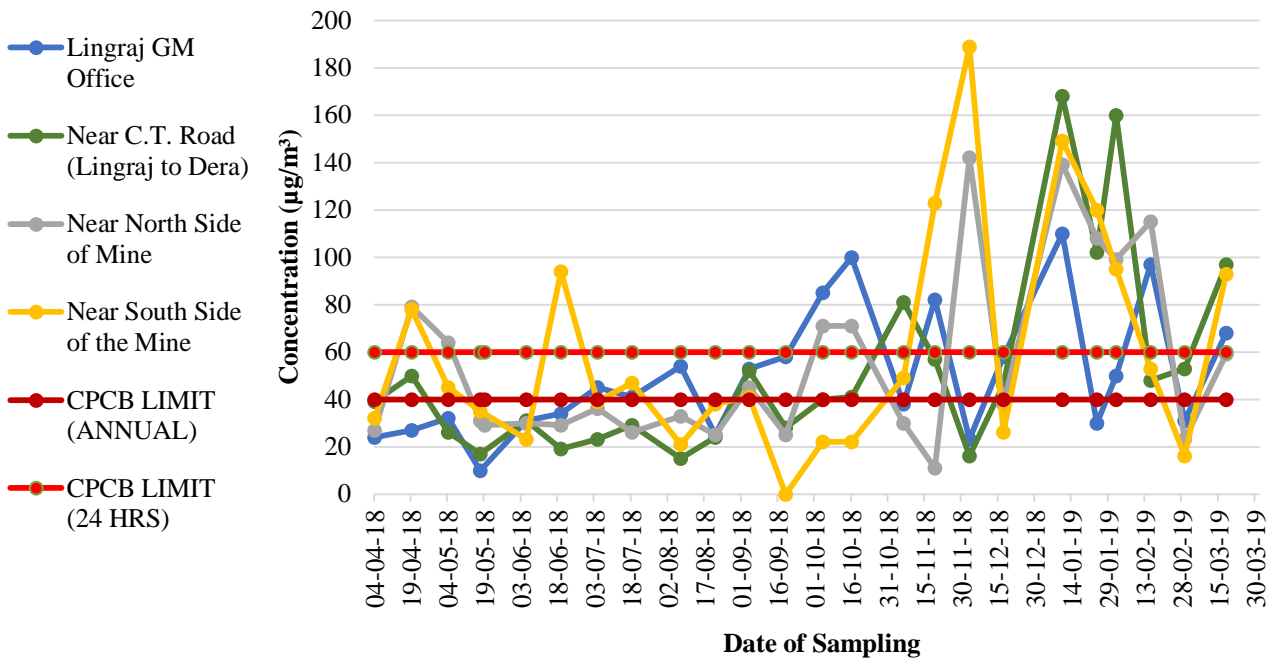
Table:22

**Area: Lingraj Area
 Project: Lingraj OCP
 Monitoring Station: Near South Side of the Mine**

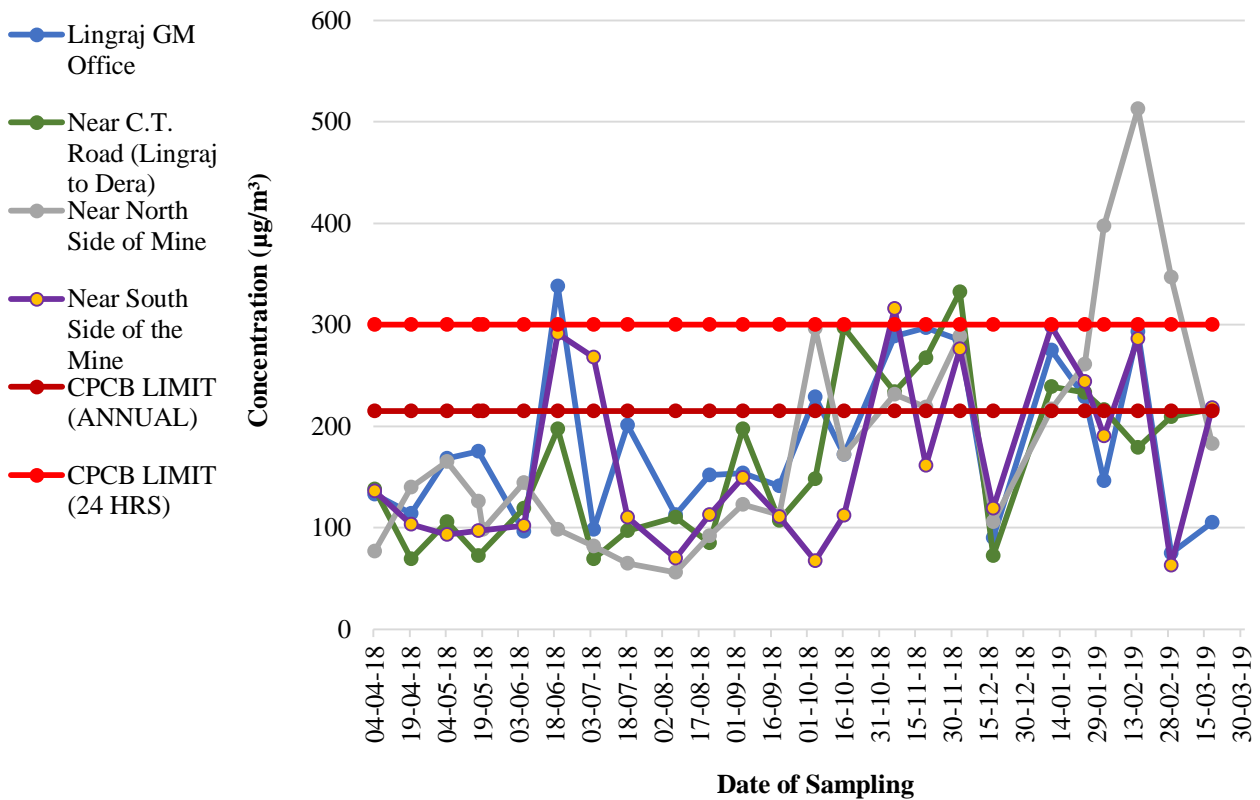
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|----------------|--------------|--------------|---------------|
| 04/04/18 | 32 | 136 | 2.07 | 8.18 | 274 |
| 18/04/18 | 78 | 103 | 1.61 | 6.33 | 258 |
| 03/05/18 | 45 | 93 | 13.22 | <6 | 271 |
| 16/05/18 | 35 | 97 | 6.61 | 19 | 241 |
| 04/06/18 | 23 | 102 | 6.57 | <6 | 175 |
| 18/06/18 | 94 | 291 | 9.22 | 12.2 | 493 |
| 03/07/18 | 39 | 268 | 1.43 | <6 | 579 |
| 17/07/18 | 47 | 110 | 1.85 | <6 | 178 |
| 06/08/18 | 21 | 70 | 1.87 | 20.95 | 98 |
| 20/08/18 | 38 | 113 | 1.86 | 8.5 | 146 |
| 03/09/18 | 41 | 149 | 4.07 | 12.06 | 196 |
| 18/09/18 | -- | 111 | 20.71 | 19.07 | 134 |
| 03/10/18 | 22 | 67 | 13.8 | <6 | 188 |
| 15/10/18 | 22 | 112 | 8.77 | <6 | 232 |
| 05/11/18 | 49 | 316 | 2.74 | 6.66 | 395 |
| 19/11/18 | 123 | 161 | 6.7 | 38.72 | 287 |
| 03/12/18 | 189 | 276 | 24.63 | 12.1 | 310 |
| 17/12/18 | 26 | 119 | 10.96 | 13.27 | 131 |
| 10/01/19 | 149 | 298 | 11.29 | 34.89 | 341 |
| 29/01/19 | 120 | 244 | 12.09 | 18.12 | 371 |
| 01/02/19 | 95 | 190 | 17.72 | 19.36 | 327 |
| 15/02/19 | 53 | 286 | 12.43 | 9.84 | 337 |
| 01/03/19 | 16 | 63 | 10.38 | 14.5 | 109 |
| 18/03/19 | 93 | 218 | 10.98 | 11.45 | 290 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 189 | 316 | 24.63 | 38.72 | 579 |
| Minimum | 16 | 63 | 1.43 | 6.33 | 98 |
| Average | 63.04 | 166.375 | 8.89 | 15.84 | 265.04 |
| 95 Percentile | 146.4 | 296.95 | 20.26 | 35.46 | 478.3 |
| 98 Percentile | 171.4 | 307.72 | 22.82 | 37.41 | 539.44 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

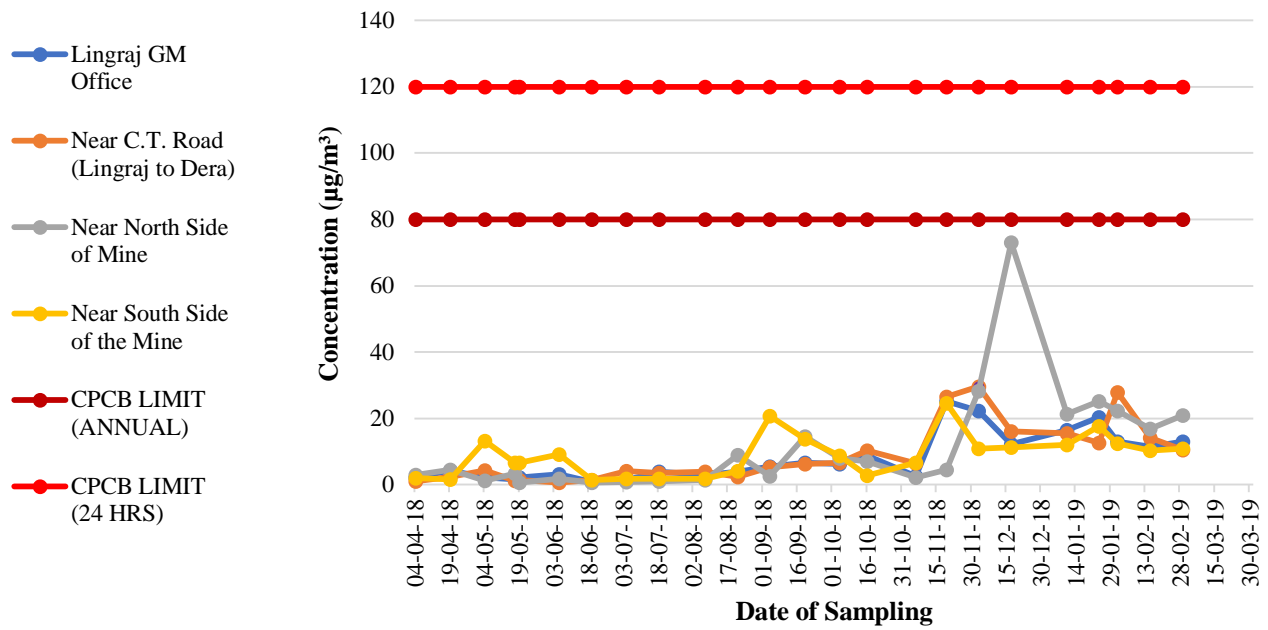
Graph Showing PM2.5 of Lingraj OCP



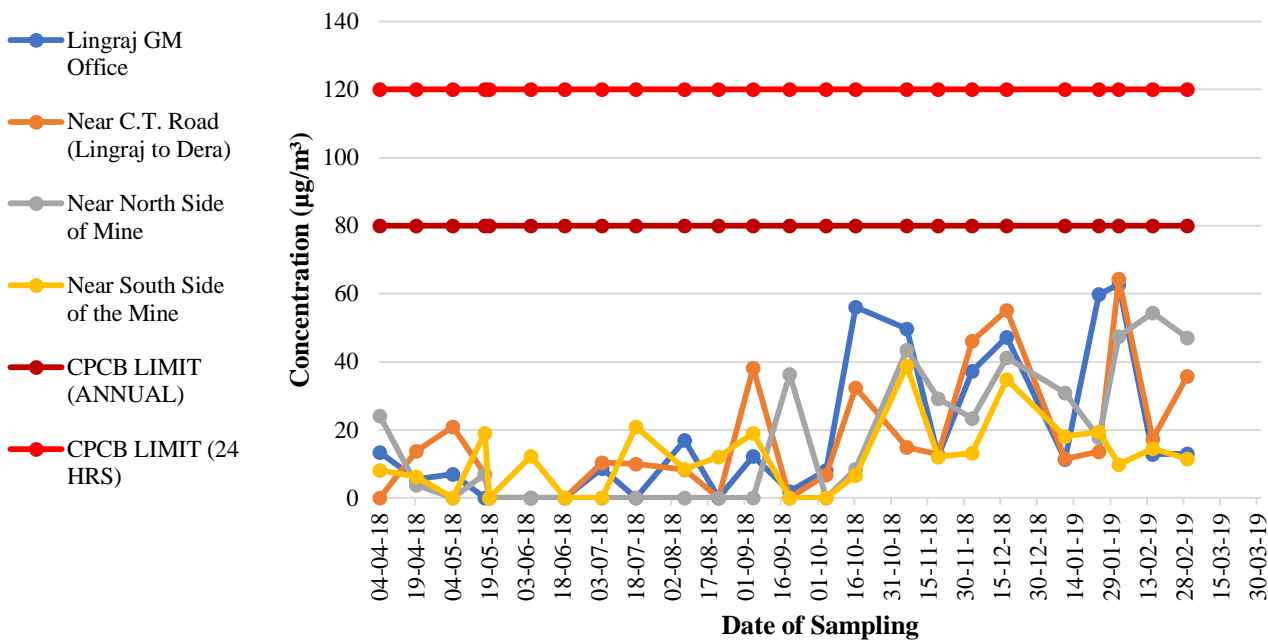
Graph Showing PM10 of Lingraj OCP



Graph showing SO_x of Lingraj OCP



Graph showing NO_x of Lingraj OCP



Graph showing SPM of Lingraj OCP

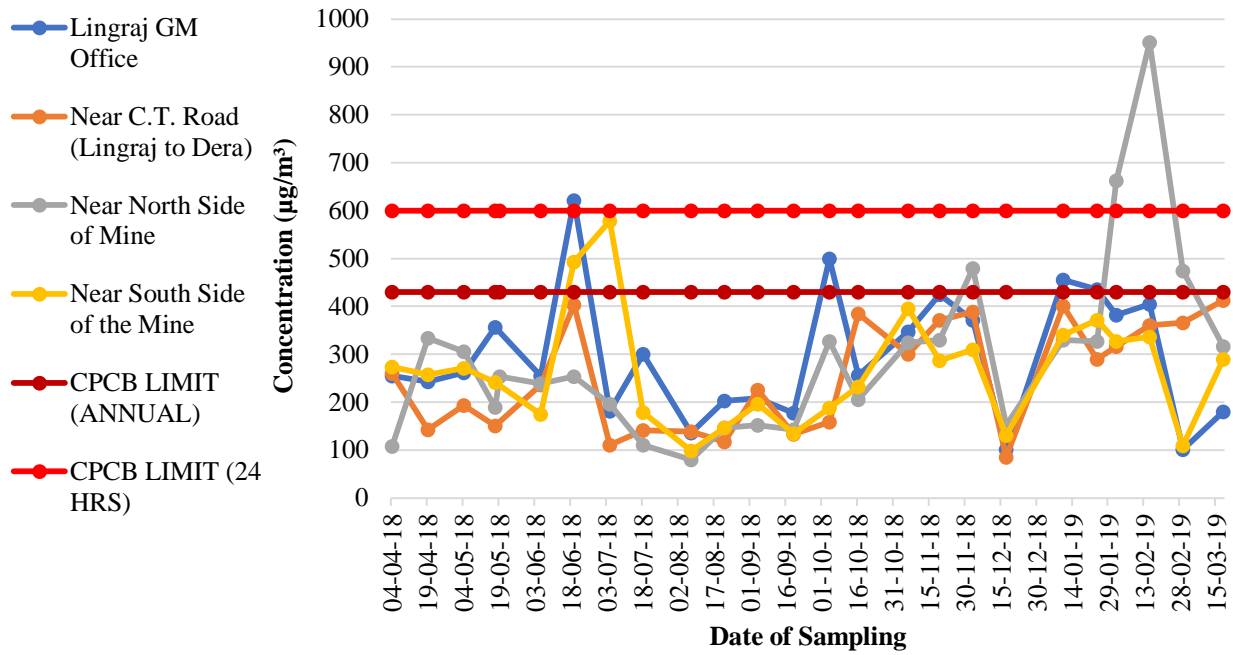


Table:23

**Area: Kaniha Area
 Project: Kaniha OCP
 Monitoring Station: Chellia Village, NAAQS**

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|------------------|-------|------|-------|--------|-----|
| 06/04/18 | 50 | 74 | 2.89 | <6 | 144 |
| 07/04/18 | 53 | 103 | 4.73 | <6 | 139 |
| 11/04/18 | 66 | 87 | 10.24 | 100.54 | 111 |
| 12/04/18 | 43 | 103 | 3.59 | 8.18 | 202 |
| 21/04/18 | 31 | 29 | 3.00 | 1.30 | 117 |
| 22/04/18 | 51 | 342 | 3.75 | 3.45 | 772 |
| 25/04/18 | 38 | 76 | 1.05 | 0.91 | 144 |
| 26/04/18 | 38 | 113 | 2.60 | 2.99 | 165 |
| 06/05/18 | 32 | 101 | 2.46 | 11.00 | 248 |
| 07/05/18 | 27 | 75 | 1.82 | 7.00 | 176 |
| 10/05/18 | 43 | 90 | 0.78 | <6 | 218 |
| 11/05/18 | 40 | 75 | 0.76 | <6 | 185 |
| 19/05/18 | 76 | 89 | 5.07 | 8 | 177 |
| 20/05/18 | 31 | 70 | 3.06 | 5 | 132 |
| 21/05/18 | 19 | 53 | 0.51 | <6 | 75 |
| 24/05/18 | 28 | 68 | 1.39 | 9 | 177 |
| 25/05/18 | 13 | 77 | 1.76 | 8 | 207 |
| 07/06/18 | 46 | 78 | 1.45 | <6 | 141 |
| 08/06/18 | 29 | 50 | 2.69 | <6 | 239 |
| 12/06/18 | 15 | 33 | 4.16 | <6 | 69 |
| 13/06/18 | 32 | 98 | 5.34 | <6 | 311 |
| 21/06/18 | 19 | 53 | 0.51 | <6 | 75 |
| 22/06/18 | 14 | 33 | 1.69 | <6 | 80 |
| 26/06/18 | 28 | 63 | 0.79 | 10.17 | 120 |
| 27/06/18 | 10 | 38 | 0.62 | <6 | 85 |
| 06/07/18 | 15 | 77 | 2.21 | <6 | 133 |
| 07/07/18 | 17 | 68 | 1.06 | <6 | 97 |
| 11/07/18 | 18 | 47 | 5.43 | <6 | 147 |
| 12/07/18 | 14 | 70 | 1.76 | 17.89 | 107 |
| 20/07/18 | 0 | 81 | 4.16 | 12.50 | 193 |
| 21/07/18 | 21 | 48 | 4.13 | <6 | 106 |
| 25/07/18 | 35 | 82 | 1.83 | <6 | 129 |
| 26/07/18 | 28 | 90 | 2.33 | <6 | 133 |
| 08/08/18 | 40 | 84 | 1.96 | 40.82 | 110 |
| 09/08/18 | 35 | 69 | 1.57 | 51.96 | 97 |
| 12/08/18 | 33 | 125 | 5.01 | 26.07 | 143 |
| 13/08/18 | 19 | 74 | 2.63 | <6 | 96 |
| 14/08/18 | 11 | 64 | 1.97 | 12.94 | 102 |
| 23/08/18 | 30 | 67 | 2.37 | <6 | 101 |

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|---------------|---------------|
| 24/08/18 | 29 | 72 | 3.13 | 13.33 | 96 |
| 28/08/18 | 18 | 83 | 2.98 | 8.65 | 114 |
| 29/08/18 | 21 | 78 | 3.43 | 7.64 | 106 |
| 06/09/18 | 49 | 121 | 5.83 | <6 | 154 |
| 07/09/18 | 42 | 108 | 2.4 | 8.18 | 144 |
| 13/09/18 | 32 | 95 | 3.44 | 11.6 | 134 |
| 21/09/18 | 25 | 89 | 3.86 | 54.5 | 112 |
| 22/09/18 | 27 | 74 | 2.11 | 7.20 | 88 |
| 26/09/18 | 33 | 76 | 6.69 | 18.96 | 103 |
| 27/09/18 | 37 | 94 | 11.66 | 25.86 | 123 |
| 06/10/18 | 29 | 90 | 9.80 | <6 | 164 |
| 07/10/18 | 27 | 56 | 11.91 | <6 | 95 |
| 11/10/18 | 36 | 49 | 10.6 | 10.69 | 60 |
| 12/10/18 | 20 | 43 | 11.29 | <6 | 56 |
| 22/10/18 | 26 | 165 | 7.83 | <6 | 195 |
| 23/10/18 | 18 | 138 | 10.05 | 14.56 | 193 |
| 28/10/18 | 73 | 176 | 19.76 | 6.91 | 207 |
| 29/10/18 | 29 | 110 | 10.89 | 9.35 | 167 |
| 08/11/18 | 50 | 161 | 2.13 | 11.38 | 181 |
| 09/11/18 | 53 | 145 | 2.57 | <6 | 204 |
| 13/11/18 | 23 | 170 | 1.83 | <6 | 212 |
| 14/11/18 | 27 | 185 | 2.72 | <6 | 239 |
| 22/11/18 | 24 | 94 | 2.68 | 13.59 | 181 |
| 23/11/18 | 14 | 90 | 3.48 | 8.18 | 207 |
| 27/11/18 | 57 | 149 | 10.18 | 28.15 | 250 |
| 28/11/18 | 14 | 157 | 8.69 | 13.25 | 202 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 76 | 342 | 19.76 | 100.54 | 772 |
| Minimum | 0 | 29 | 0.51 | 0.91 | 56 |
| Average | 31.09 | 92.07 | 4.26 | 16.47 | 156.76 |
| 95 Percentile | 56.2 | 169 | 11.21 | 52.46 | 246.20 |
| 98 Percentile | 71.04 | 182.48 | 11.84 | 67.39 | 293.92 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:24

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: Jaipur Village, NAAQS

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|------------------|-------|------|-------|-------|-----|
| 07/04/18 | 11 | 72 | 13.10 | 27.12 | 106 |
| 08/04/18 | 45 | 123 | 8.35 | 54.06 | 221 |
| 11/04/18 | 41 | 152 | 3.76 | <6 | 188 |
| 12/04/18 | 40 | 65 | 3.89 | <6 | 161 |
| 21/04/18 | 30 | 105 | 3.22 | 2.96 | 251 |
| 22/04/18 | 20 | 99 | 1.60 | 1.18 | 313 |
| 25/04/18 | 26 | 117 | 3.21 | 1.38 | 277 |
| 26/04/18 | 74 | 267 | 4.07 | 2.72 | 330 |
| 06/05/18 | 42 | 79 | 3.96 | 9.00 | 118 |
| 07/05/18 | 35 | 79 | 1.33 | <6 | 311 |
| 10/05/18 | 36 | 76 | 2.75 | <6 | 293 |
| 11/05/18 | 18 | 83 | 0.81 | <6 | 140 |
| 19/05/18 | 15 | 87 | 2.07 | <6 | 149 |
| 20/05/18 | 21 | 57 | 2.58 | 55 | 110 |
| 21/05/18 | 22 | 63 | 1.24 | <6 | 150 |
| 24/05/18 | 23 | 81 | 3.12 | <6 | 150 |
| 25/05/18 | 14 | 69 | 1.28 | 11 | 100 |
| 07/06/18 | 55 | 106 | 2.63 | <6 | 168 |
| 08/06/18 | 58 | 124 | 7.05 | 9.84 | 207 |
| 12/06/18 | 28 | 224 | 3.39 | 7.74 | 256 |
| 13/06/18 | 55 | 276 | 3.63 | 12 | 388 |
| 21/06/18 | 22 | 63 | 1.24 | <6 | 150 |
| 22/06/18 | 20 | 75 | 1.69 | <6 | 157 |
| 26/06/18 | 24 | 44 | 0.70 | <6 | 61 |
| 27/06/18 | 22 | 62 | 0.84 | <6 | 83 |
| 06/07/18 | 15 | 48 | 1.88 | <6 | 93 |
| 07/07/18 | 12 | 37 | 0.67 | <6 | 65 |
| 11/07/18 | 16 | 33 | 0.70 | <6 | 93 |
| 12/07/18 | 18 | 37 | 0.83 | 14.78 | 64 |
| 20/07/18 | 26 | 48 | 4.03 | 7.17 | 76 |
| 21/07/18 | 17 | 61 | 2.37 | 7.26 | 127 |
| 25/07/18 | 22 | 89 | 1.69 | <6 | 136 |
| 26/07/18 | 15 | 75 | 1.35 | <6 | 104 |
| 08/08/18 | 22 | 76 | 1.25 | <6 | 119 |
| 09/08/18 | 10 | 57 | 1.85 | 8.16 | 84 |
| 12/08/18 | 31 | 82 | 3.79 | 40.6 | 128 |
| 13/08/18 | 22 | 62 | 1.34 | 6.37 | 114 |
| 14/08/18 | 19 | 72 | 1.99 | 7.26 | 104 |
| 23/08/18 | 12 | 78 | 1.86 | 13.28 | 104 |

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|--------------|---------------|
| 24/08/18 | 16 | 80 | 1.78 | 14.63 | 126 |
| 28/08/18 | 22 | 82 | 1.48 | 7.09 | 132 |
| 29/08/18 | 18 | 71 | 2.34 | <6 | 95 |
| 06/09/18 | 21 | 117 | 2.45 | 9.09 | 157 |
| 07/09/18 | 29 | 92 | 2.53 | 7.61 | 122 |
| 13/09/18 | 35 | 96 | 2.1 | <6 | 139 |
| 21/09/18 | 20 | 81 | 10.87 | 9.62 | 106 |
| 22/09/18 | 29 | 110 | 4.54 | <6 | 137 |
| 26/09/18 | 37 | 113 | 6.53 | 8.11 | 152 |
| 27/09/18 | 36 | 95 | 2.99 | 3.38 | 120 |
| 06/10/18 | 81 | 165 | 13.08 | 9.71 | 187 |
| 07/10/18 | 68 | 93 | 6.43 | <6 | 124 |
| 11/10/18 | 43 | 51 | 8.97 | 15.21 | 61 |
| 12/10/18 | 41 | 63 | 9.41 | <6 | 132 |
| 22/10/18 | 19 | 172 | 11.92 | 11.16 | 240 |
| 23/10/18 | 18 | 117 | 12.39 | 2.59 | 211 |
| 28/10/18 | 16 | 93 | 8.69 | 6.86 | 171 |
| 29/10/18 | 11 | 79 | 5.88 | 7.74 | 135 |
| 08/11/18 | 58 | 228 | 2.62 | <6 | 375 |
| 09/11/18 | 59 | 129 | 2.80 | <6 | 191 |
| 13/11/18 | 46 | 83 | 5.84 | 21.57 | 177 |
| 14/11/18 | 56 | 161 | 2.45 | <6 | 209 |
| 22/11/18 | 20 | 203 | 5.38 | 7.80 | 267 |
| 23/11/18 | 25 | 203 | 5.17 | 15.94 | 383 |
| 27/11/18 | 27 | 93 | 2.78 | 4.95 | 146 |
| 28/11/18 | 48 | 121 | 4.61 | 17.89 | 200 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 81 | 276 | 13.1 | 55 | 388 |
| Minimum | 10 | 33 | 0.67 | 1.18 | 61 |
| Average | 30.04 | 99.90 | 3.89 | 12.62 | 165.29 |
| 95 Percentile | 58.8 | 219.8 | 11.71 | 42.61 | 326.60 |
| 98 Percentile | 72.32 | 256.08 | 12.88 | 54.30 | 380.76 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:25

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: NTPC Chakk, MGR NAAQS

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|------------------|-------|------|-------|-------|-----|
| 06-04-2018 | 21 | 36 | 6.49 | 13.01 | 153 |
| 07-04-2018 | 64 | 125 | 14.78 | 14.20 | 235 |
| 11-04-2018 | 67 | 492 | 1.98 | 23.12 | 679 |
| 12-04-2018 | 11 | 42 | 5.13 | 29.58 | 72 |
| 21-04-2018 | 32 | 70 | 2.10 | 8.61 | 149 |
| 22-04-2018 | 21 | 42 | 13.86 | 4.93 | 89 |
| 25-04-2018 | 46 | 141 | 2.36 | 2.81 | 163 |
| 26-04-2018 | 55 | 190 | 5.27 | 3.23 | 213 |
| 06-05-2018 | 35 | 48 | 10.84 | 25 | 155 |
| 07-05-2018 | 57 | 61 | 5.1 | 17 | 139 |
| 10-05-2018 | 28 | 151 | 0.46 | <6 | 201 |
| 11-05-2018 | 37 | 101 | 0.67 | <6 | 213 |
| 19-05-2018 | 18 | 90 | 2.21 | <6 | 155 |
| 20-05-2018 | 15 | 49 | 3.30 | 8 | 83 |
| 24-05-2018 | 16 | 44 | 1.77 | <6 | 58 |
| 25-05-2018 | 17 | 49 | 1.04 | <6 | 109 |
| 07-06-2018 | 55 | 87 | 4.15 | 7.31 | 130 |
| 08-06-2018 | 38 | 59 | 3.08 | 8.83 | 123 |
| 12-06-2018 | 21 | 30 | 1.39 | <6 | 52 |
| 13-06-2018 | 36 | 48 | 2.77 | 5.98 | 143 |
| 21-06-2018 | 27 | 110 | 1 | <6 | 204 |
| 22-06-2018 | 25 | 65 | 2.27 | <6 | 137 |
| 26-06-2018 | 21 | 35 | 0.95 | <6 | 58 |
| 27-06-2018 | 12 | 84 | 1.12 | 12.26 | 115 |
| 06-07-2018 | 26 | 87 | 4.37 | 6.80 | 163 |
| 07-07-2018 | 23 | 58 | 1.68 | <6 | 139 |
| 11-07-2018 | 22 | 54 | 1.49 | <6 | 148 |
| 12-07-2018 | 17 | 47 | 3.15 | 9.27 | 77 |
| 20-07-2018 | 29 | 67 | 1.87 | <6 | 103 |
| 21-07-2018 | 19 | 57 | 1.89 | <6 | 84 |
| 25-07-2018 | 12 | 48 | 1.38 | <6 | 68 |
| 26-07-2018 | 10 | 47 | 1.41 | <6 | 73 |
| 08-08-2018 | 20 | 63 | 1.85 | <6 | 102 |
| 09-08-2018 | 14 | 47 | 2.21 | 7.04 | 98 |
| 13-08-2018 | 25 | 67 | 1.44 | 7.37 | 134 |
| 14-08-2018 | 20 | 60 | 2.03 | <6 | 85 |
| 23-08-2018 | 20 | 81 | 2.72 | 8.18 | 131 |
| 24-08-2018 | 23 | 71 | 2.50 | <6 | 88 |
| 28-08-2018 | 13 | 84 | 1.65 | 13.76 | 103 |
| 29-08-2018 | 15 | 91 | 2.66 | 14.85 | 123 |

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|--------------|---------------|
| 06-09-2018 | 25 | 93 | 2.22 | <6 | 111 |
| 07-09-2018 | 32 | 83 | 1.94 | 8 | 99 |
| 12-09-2018 | 28 | 112 | 3.14 | 13.94 | 139 |
| 13-09-2018 | 19 | 116 | 2.03 | <6 | 138 |
| 21-09-2018 | 24 | 81 | 5.29 | 10.07 | 100 |
| 22-09-2018 | 38 | 114 | 4.18 | 28.56 | 137 |
| 26-09-2018 | 18 | 71 | 4.61 | 20.17 | 107 |
| 27-09-2018 | 29 | 95 | 8.81 | 24.72 | 118 |
| 06-10-2018 | 38 | 96 | 7.24 | <6 | 235 |
| 07-10-2018 | 37 | 90 | 12.66 | <6 | 140 |
| 11-10-2018 | 33 | 95 | 11.42 | <6 | 145 |
| 12-10-2018 | 31 | 68 | 11.43 | <6 | 82 |
| 22-10-2018 | 58 | 84 | 10.70 | 12.95 | 122 |
| 23-10-2018 | 59 | 87 | 12.83 | 10.26 | 112 |
| 28-10-2018 | 16 | 58 | 6.36 | <6 | 110 |
| 29-10-2018 | 15 | 88 | 4.06 | <6 | 129 |
| 08-11-2018 | 58 | 135 | 1.52 | <6 | 197 |
| 09-11-2018 | 48 | 268 | 4.62 | 11.8 | 288 |
| 13-11-2018 | 12 | 190 | 3.88 | <6 | 213 |
| 14-11-2018 | 16 | 137 | 2.75 | <6 | 181 |
| 22-11-2018 | 12 | 94 | 2.38 | 16.72 | 119 |
| 23-11-2018 | 17 | 127 | 2.54 | 13.16 | 189 |
| 27-11-2018 | 52 | 93 | 4.69 | <6 | 218 |
| 28-11-2018 | 58 | 92 | 10.73 | 35.22 | 126 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 67 | 492 | 14.78 | 35.22 | 679 |
| Minimum | 10 | 30 | 0.46 | 2.81 | 52 |
| Average | 29 | 91.32 | 4.22 | 13.43 | 142.21 |
| 95 Percentile | 58 | 184.15 | 12.47 | 28.91 | 232.45 |
| 98 Percentile | 62.70 | 247.72 | 13.59 | 31.49 | 274.22 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:26

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: Jamania Village

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|--------------|---------------|
| 06/04/18 | 45 | 62 | 3.18 | <6 | 125 |
| 22/04/18 | 52 | 130 | 10.47 | 1.32 | 205 |
| 07/05/18 | 41 | 52 | 0.60 | <6 | 136 |
| 21/05/18 | 24 | 115 | 1.90 | 6 | 166 |
| 08/06/18 | 47 | 129 | 2.34 | <6 | 256 |
| 22/06/18 | 13 | 50 | 1.02 | <6 | 99 |
| 07/07/18 | 26 | 82 | 0.75 | 7.12 | 175 |
| 21/07/18 | 11 | 41 | 2.24 | 9.85 | 67 |
| 10/08/18 | 12 | 41 | 3.09 | 6.77 | 70 |
| 25/08/18 | 27 | 84 | 2.89 | <6 | 122 |
| 07/09/18 | 44 | 78 | 1.40 | 6.63 | 95 |
| 22/09/18 | 23 | 95 | 5.50 | 16.89 | 124 |
| 07/10/18 | 49 | 143 | 7.26 | <6 | 264 |
| 24/10/18 | 21 | 77 | 6.58 | <6 | 103 |
| 09/11/18 | 35 | 192 | 1.16 | <6 | 216 |
| 23/11/18 | 71 | 120 | 4.01 | 19.72 | 139 |
| 07/12/18 | 58 | 267 | 24.59 | 15.57 | 462 |
| 21/12/18 | 79 | 169 | 26.57 | 30.52 | 233 |
| 12/01/19 | 44 | 276 | 43.96 | 78.37 | 419 |
| 21/01/19 | 15 | 278 | 13.20 | 18.36 | 373 |
| 07/02/19 | 43 | 92 | 17.61 | 24.37 | 296 |
| 20/02/19 | 31 | 115 | 21.35 | 27.26 | 275 |
| 09/03/19 | 72 | 103 | 10.64 | 20.89 | 239 |
| 23/03/19 | 38 | 105 | 11.05 | 13.83 | 180 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 79 | 278 | 43.96 | 78.37 | 462 |
| Minimum | 11 | 41 | 0.6 | 1.32 | 67 |
| Average | 38.37 | 120.66 | 9.30 | 18.96 | 201.62 |
| 95 Percentile | 71.85 | 274.65 | 26.27 | 42.48 | 412.1 |
| 98 Percentile | 75.78 | 277.08 | 35.96 | 64.01 | 442.22 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:27

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: Jarada Village

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 22/04/18 | 41 | 65 | 3.55 | 9.69 | 137 |
| 05/05/18 | 25 | 224 | 4.05 | 10 | 407 |
| 21/05/18 | 42 | 83 | 2.57 | <6 | 226 |
| 08/06/18 | 28 | 67 | 2.34 | <6 | 143 |
| 22/06/18 | 16 | 42 | 1.27 | <6 | 117 |
| 07/07/18 | 29 | 68 | 1.51 | 10.52 | 111 |
| 21/07/18 | 15 | 50 | 2.87 | <6 | 81 |
| 10/08/18 | 27 | 50 | 1.60 | <6 | 66 |
| 24/08/18 | 25 | 70 | 1.70 | <6 | 111 |
| 07/09/18 | 25 | 104 | 5.54 | 10.01 | 140 |
| 22/09/18 | 20 | 88 | 6.96 | 12.89 | 137 |
| 07/10/18 | 13 | 84 | 7.99 | <6 | 95 |
| 24/10/18 | 17 | 113 | 11.70 | 11.12 | 186 |
| 09/11/18 | 88 | 171 | 6.05 | 23.34 | 274 |
| 23/11/18 | 20 | 53 | 5.01 | 11.68 | 74 |
| 08/12/18 | 167 | 192 | 24.96 | 26.43 | 248 |
| 22/12/18 | 86 | 160 | 71.97 | 44.48 | 272 |
| 12/01/19 | 78 | 253 | 36.18 | 69.05 | 292 |
| 23/01/19 | 18 | 162 | 11.03 | 11.02 | 205 |
| 06/02/19 | 26 | 143 | 19.56 | 43.75 | 311 |
| 20/02/19 | 35 | 93 | 18.34 | 20.40 | 267 |
| 09/03/19 | 50 | 103 | 10.69 | 47.37 | 172 |
| 23/03/19 | 41 | 138 | 11.17 | 12.97 | 181 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 167 | 253 | 71.97 | 69.05 | 407 |
| Minimum | 13 | 42 | 1.27 | 9.69 | 66 |
| Average | 40.52 | 112 | 11.67 | 23.42 | 184.91 |
| 95 Percentile | 87.8 | 220.80 | 35.05 | 52.79 | 309.10 |
| 98 Percentile | 132.24 | 240.24 | 56.22 | 62.54 | 364.76 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:28

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: New Time Office-Near Z-patch

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 21/04/18 | 28 | 108 | 4.77 | 3.90 | 176 |
| 06/05/18 | 35 | 76 | 3.64 | <6 | 112 |
| 19/05/18 | 19 | 101 | 1.82 | 8 | 203 |
| 21/05/18 | 24 | 64 | 1.84 | 11.20 | 113 |
| 07/06/18 | 51 | 122 | 2.48 | <6 | 191 |
| 21/06/18 | 24 | 64 | 1.84 | 11.20 | 113 |
| 06/07/18 | 37 | 143 | 2.62 | 10.10 | 261 |
| 20/07/18 | 18 | 57 | 1.62 | <6 | 86 |
| 09/08/18 | 26 | 87 | 1.35 | <6 | 114 |
| 23/08/18 | 11 | 66 | 1.08 | <6 | 104 |
| 06/09/18 | 47 | 93 | 6.94 | <6 | 125 |
| 21/09/18 | 23 | 79 | 2.32 | 6.69 | 103 |
| 06/10/18 | 45 | 171 | 7.09 | <6 | 429 |
| 23/10/18 | 21 | 157 | 5.93 | 10.03 | 360 |
| 08/11/18 | 38 | 173 | 1.71 | <6 | 282 |
| 23/11/18 | 17 | 159 | 12.3 | 20.82 | 291 |
| 07/12/18 | 120 | 223 | 22.54 | 34.85 | 375 |
| 21/12/18 | 11 | 118 | 17.91 | 46.62 | 158 |
| 13/01/19 | 82 | 149 | 52 | 24 | 409 |
| 23/01/19 | 14 | 72 | 14.07 | 12.74 | 103 |
| 07/02/19 | 27 | 93 | 17.65 | 27.82 | 130 |
| 21/02/19 | 37 | 324 | 10.7 | 28.35 | 473 |
| 11/03/19 | 56 | 108 | 10.63 | 27.99 | 150 |
| 25/03/19 | 57 | 339 | 10.75 | 10.72 | 406 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 120 | 339 | 52 | 46.62 | 473 |
| Minimum | 11 | 57 | 1.08 | 3.9 | 86 |
| Average | 36.16 | 131.08 | 8.98 | 18.43 | 219.45 |
| 95 Percentile | 78.25 | 308.85 | 21.84 | 37.79 | 426 |
| 98 Percentile | 102.52 | 332.1 | 38.44 | 43.08 | 452.76 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:29

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: Old Site Office

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 07/04/18 | 40 | 119 | 5.74 | <6 | 313 |
| 21/04/18 | 44 | 58 | 2.15 | 2.50 | 76 |
| 06/05/18 | 30 | 66 | 1.05 | 9.00 | 187 |
| 19/05/18 | 25 | 66 | 1.56 | 7.00 | 139 |
| 07/06/18 | 24 | 82 | 1.43 | <6 | 195 |
| 21/06/18 | 29 | 114 | 2.22 | 6.10 | 202 |
| 06/07/18 | 10 | 62 | 1.48 | <6 | 96 |
| 20/07/18 | 23 | 62 | 2.83 | <6 | 93 |
| 09/08/18 | 12 | 57 | 4.83 | 7.58 | 107 |
| 23/08/18 | 29 | 62 | 1.37 | 6.26 | 96 |
| 06/09/18 | 25 | 121 | 6.38 | <6 | 150 |
| 21/09/18 | 13 | 78 | 3.02 | 13.64 | 153 |
| 06/10/18 | #N/A | 86 | 7.51 | <6 | 142 |
| 23/10/18 | 19 | 65 | 6.90 | <6 | 118 |
| 08/11/18 | 85 | 142 | 2.09 | <6 | 211 |
| 22/11/18 | 30 | 145 | 3.64 | 21.79 | 223 |
| 07/12/18 | 98 | 419 | 41.88 | 17.82 | 506 |
| 21/12/18 | 57 | 180 | 25.35 | 38.08 | 196 |
| 13/01/19 | 80 | 127 | 17.73 | 35.85 | 253 |
| 23/01/19 | 23 | 152 | 14.08 | 25.61 | 269 |
| 07/02/19 | 106 | 221 | 10.81 | 34.28 | 237 |
| 20/02/19 | 14 | 237 | 12.04 | 22.51 | 314 |
| 11/03/19 | 59 | 148 | 13.33 | 17.12 | 223 |
| 25/03/19 | 68 | 176 | 10.06 | 14.96 | 272 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 106 | 419 | 41.88 | 38.08 | 506 |
| Minimum | 10 | 57 | 1.05 | 2.5 | 76 |
| Average | 41 | 126.87 | 8.31 | 17.50 | 198.79 |
| 95 Percentile | 96.7 | 234.6 | 24.20 | 36.40 | 313.85 |
| 98 Percentile | 102.48 | 335.28 | 34.27 | 37.41 | 417.68 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:30

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: Project Office

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|-------------------|--------------|--------------|---------------|
| 06-04-2018 | 75 | 94 | 3.73 | 7.73 | 151 |
| 21-04-2018 | Strike | Strike | Strike | Strike | Strike |
| 06-05-2018 | 13 | 72 | 1.51 | <6 | 158 |
| 19-05-2018 | 13 | 145 | 2.02 | 6.00 | 223 |
| 07-06-2018 | -- | 57 | 2.70 | <6 | 128 |
| 21-06-2018 | 32 | 104 | 1.03 | <6 | 137 |
| 06-07-2018 | 16 | 91 | 1.66 | 8.47 | 130 |
| 20-07-2018 | 18 | 55 | 4.44 | 6.21 | 98 |
| 09-08-2018 | 18 | 58 | 1.06 | 10 | 94 |
| 23-08-2018 | 21 | 86 | 1.57 | 7.07 | 105 |
| 06-09-2018 | 48 | 115 | 2.95 | <6 | 140 |
| 21-09-2018 | 24 | 74 | 4.31 | 15.59 | 94 |
| 06-10-2018 | 21 | 100 | 7.18 | <6 | 235 |
| 23-10-2018 | 41 | 247 | 6.98 | <6 | 357 |
| 08-11-2018 | 25 | 233 | 1.51 | <6 | 267 |
| 23-11-2018 | 46 | Machine Breakdown | | | |
| 07-12-2018 | 94 | 141 | 11.14 | 10.11 | 230 |
| 21-12-2018 | 47 | 75 | 39.17 | 44.77 | 98 |
| 15-01-2019 | 46 | 267 | 10.78 | 19.79 | 329 |
| 29-01-2019 | 16 | 72 | 11.41 | 19.73 | 103 |
| 06-02-2019 | 89 | 139 | 16.8 | 25.21 | 164 |
| 21-02-2019 | 70 | 166 | 10.52 | 14.57 | 256 |
| 11-03-2019 | 16 | 103 | 17.67 | 9.68 | 194 |
| 25-03-2019 | 81 | 338 | 23.15 | 12.86 | 696 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 94 | 338 | 39.17 | 44.77 | 696 |
| Minimum | 13 | 55 | 1.03 | 6 | 94 |
| Average | 37.85 | 128.72 | 8.33 | 14.51 | 201.71 |
| 95 Percentile | 89 | 266 | 22.87 | 31.07 | 357.00 |
| 98 Percentile | 92 | 308.18 | 32.44 | 39.29 | 560.4 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:31

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: South of Proposed Quarry Limit of KOCP

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 08/12/18 | 122 | 217 | 21.72 | 20.94 | 252 |
| 22/12/18 | 12 | 68 | 56.43 | 42.28 | 127 |
| 12/01/19 | 120 | 169 | 21.87 | 67.59 | 308 |
| 21/01/19 | 100 | 132 | 26.28 | 22.24 | 174 |
| 07/02/19 | 115 | 265 | 16.04 | 24.62 | 276 |
| 21/02/19 | 58 | 508 | 17.61 | 50.4 | 788 |
| 09/03/19 | 95 | 152 | 10.63 | 29.84 | 398 |
| 23/03/19 | 75 | 121 | 15.16 | 25.15 | 191 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 122 | 508 | 56.43 | 67.59 | 788 |
| Minimum | 12 | 68 | 10.63 | 20.94 | 127 |
| Average | 87.12 | 204 | 23.21 | 35.38 | 314.25 |
| 95 Percentile | 121.3 | 422.95 | 45.87 | 61.57 | 651.5 |
| 98 Percentile | 121.72 | 473.98 | 52.21 | 65.18 | 733.4 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:32

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: West of Mine Quarry

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|---------------|---------------|---------------|
| 08-Dec-18 | 268.00 | 292.00 | 20.82 | 12.60 | 347.00 |
| 22-Dec-18 | 34.00 | 97.00 | 10.29 | 12.88 | 181.00 |
| 12-Jan-19 | 118.00 | 278.00 | 14.76 | 62.31 | 303.00 |
| 28-Jan-19 | 83.00 | 322.00 | 18.90 | 17.19 | 462.00 |
| 07-Feb-19 | 71.00 | 103.00 | 13.20 | 16.21 | 127.00 |
| 21-Feb-19 | 28.00 | 160.00 | 11.57 | 56.37 | 300.00 |
| 09-Mar-19 | 56.00 | 169.00 | 10.67 | 11.21 | 333.00 |
| 23-Mar-19 | 30.00 | 151.00 | 13.27 | 22.65 | 306.00 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 268.00 | 322.00 | 20.82 | 62.31 | 462.00 |
| Minimum | 28.00 | 97.00 | 10.29 | 11.21 | 127.00 |
| Average | 86.00 | 196.50 | 14.19 | 26.43 | 294.88 |
| 95 Percentile | 215.50 | 311.50 | 20.15 | 60.23 | 421.75 |
| 98 Percentile | 247.00 | 317.80 | 20.55 | 61.48 | 445.90 |
| Standard (24 Hrs) | 60.00 | 300.00 | 120.00 | 120.00 | 600.00 |
| Standard (Annual) | 40.00 | 215.00 | 80.00 | 80.00 | 430.00 |

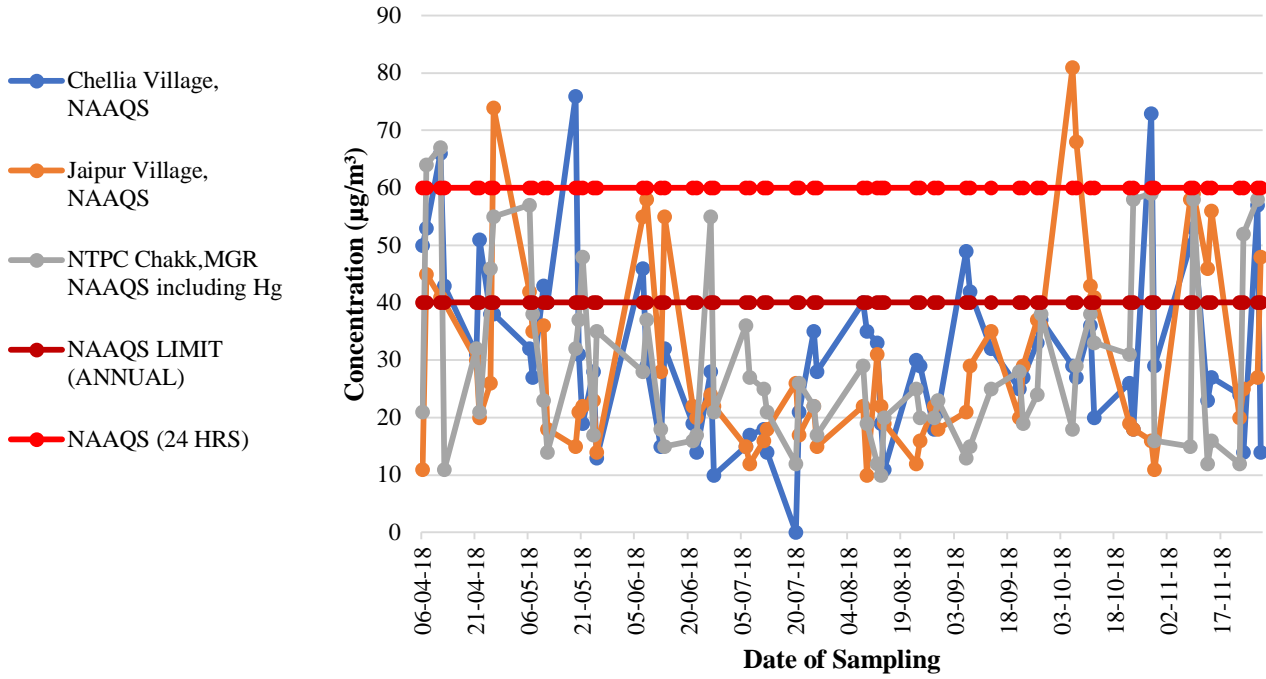
Table:33

Area: Kaniha Area
Project: Kaniha OCP
Monitoring Station: North East Side of Project Office

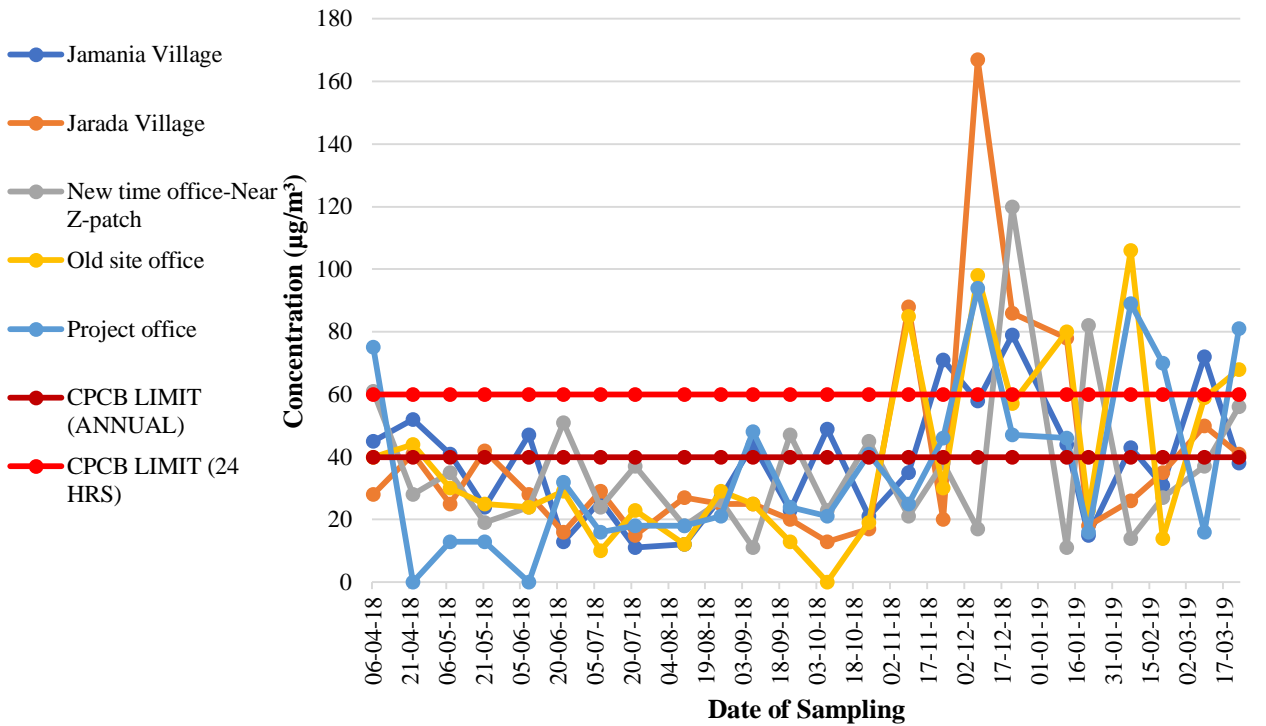
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 08/12/18 | 206 | 243 | 24.35 | 18.23 | 301 |
| 22/12/18 | 77 | 106 | 21.8 | 19.78 | 178 |
| 12/01/19 | 56 | 375 | 36.83 | 73.66 | 481 |
| 21/01/19 | 58 | 140 | 13.25 | 20.97 | 187 |
| 07/02/19 | 54 | 183 | 16.66 | 40.04 | 196 |
| 21/02/19 | 56 | 183 | 13.55 | 14.48 | 262 |
| 09/03/19 | 94 | 148 | 22.61 | 25.17 | 236 |
| 23/03/19 | 114 | 181 | 14.17 | 22.11 | 647 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 206 | 375 | 36.83 | 73.66 | 647 |
| Minimum | 54 | 106 | 13.25 | 14.48 | 178 |
| Average | 89.37 | 194.87 | 20.40 | 29.30 | 311 |
| 95 Percentile | 173.80 | 328.8 | 32.46 | 61.89 | 588.90 |
| 98 Percentile | 193.12 | 356.52 | 35.08 | 68.95 | 623.76 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

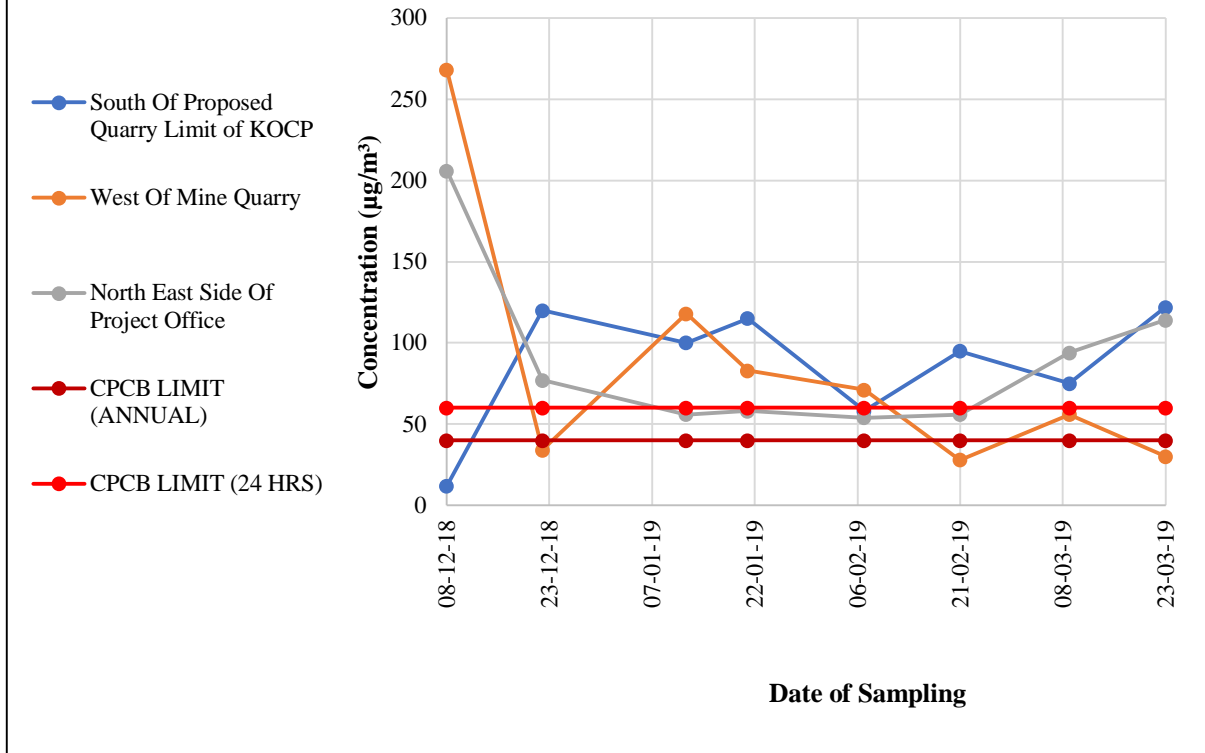
Graph showing PM2.5 of Kaniha OCP (NAAQS)



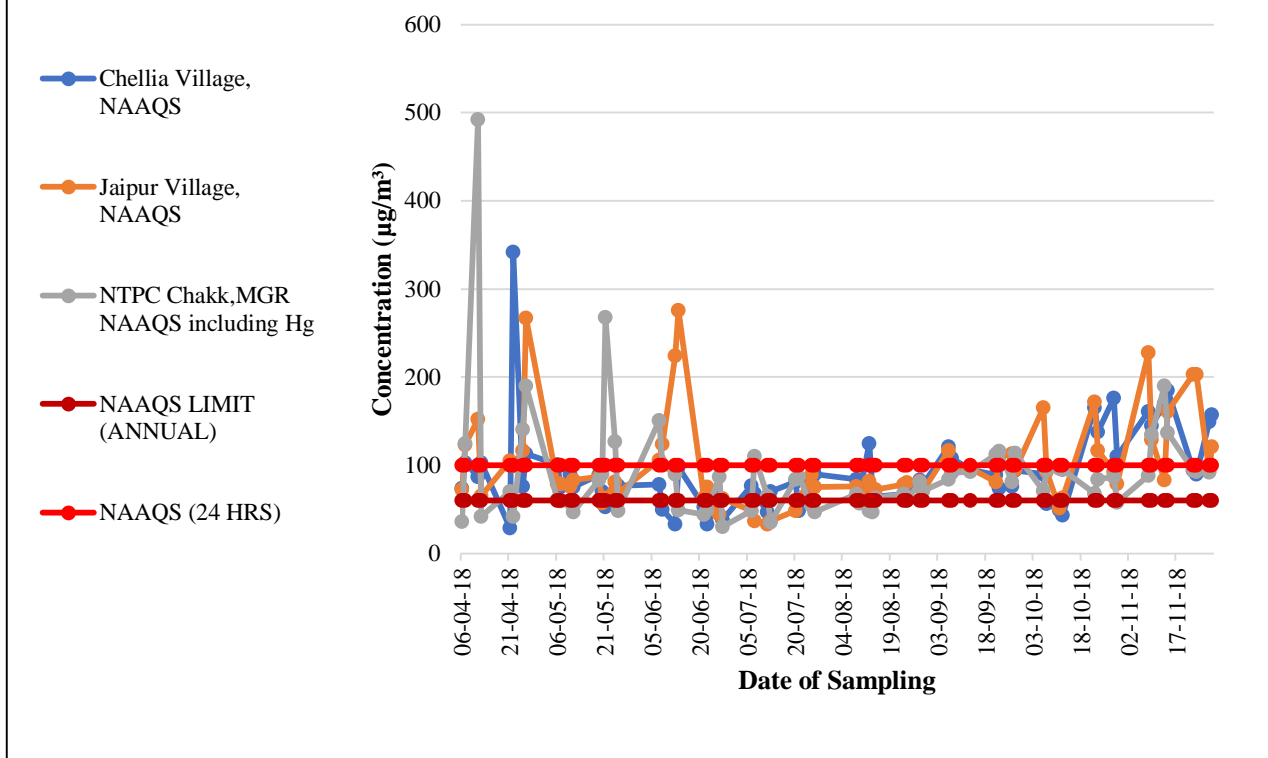
Graph showing PM2.5 of Kaniha OCP



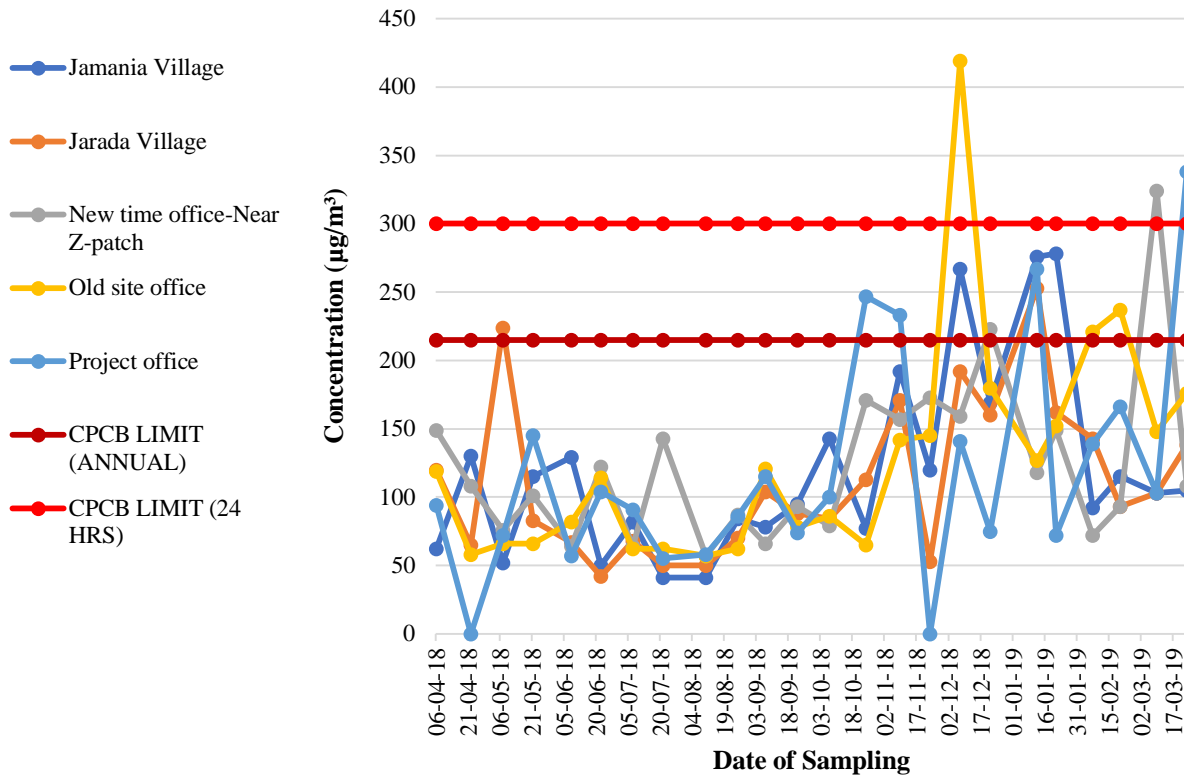
Graph showing PM2.5 of Kaniha OCP



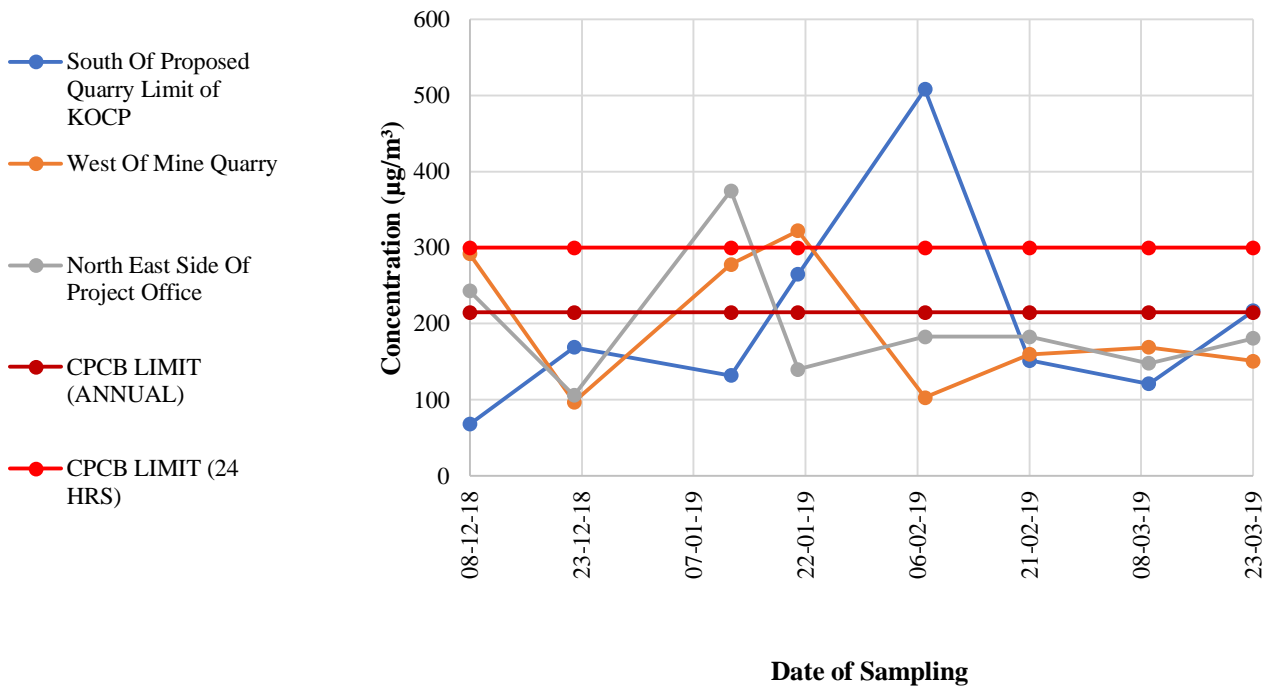
Graph showing PM10 of Kaniha OCP (NAAQS)



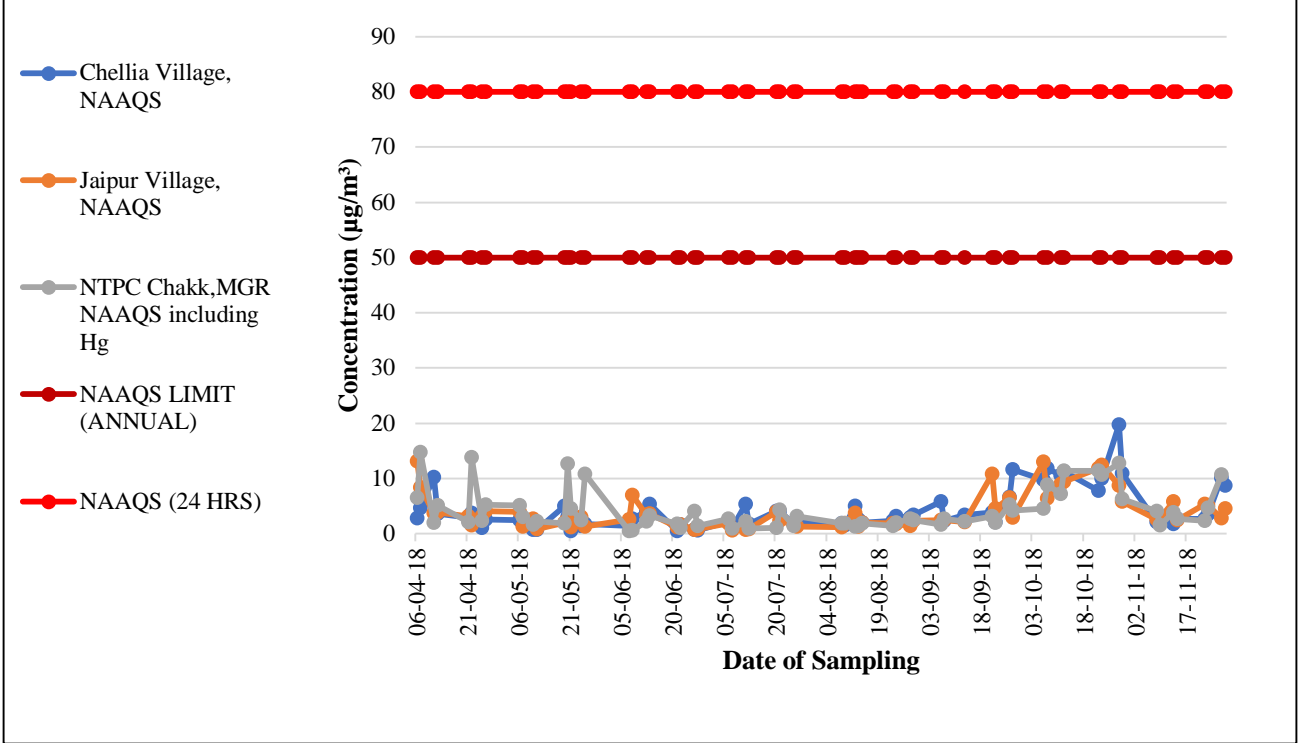
Graph showing PM10 Kaniha OCP



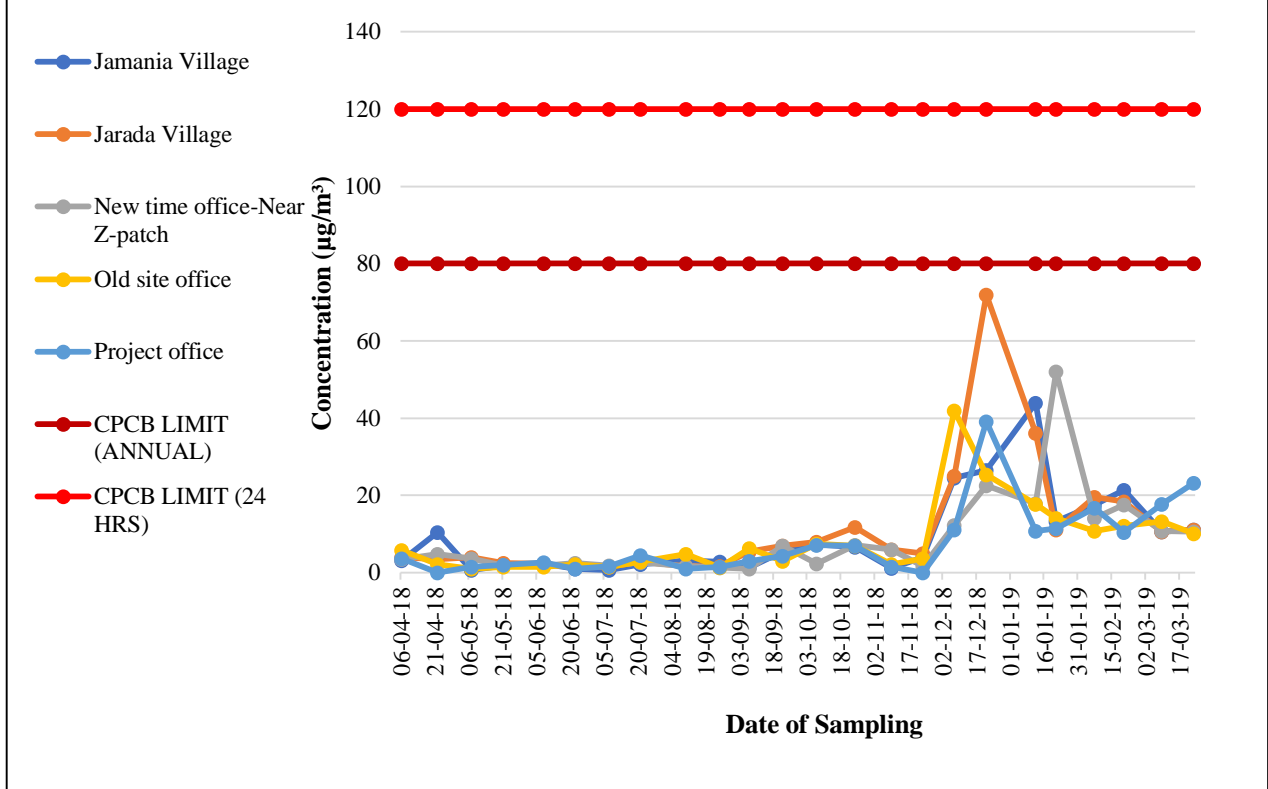
Graph showing PM10 of Kaniha OCP



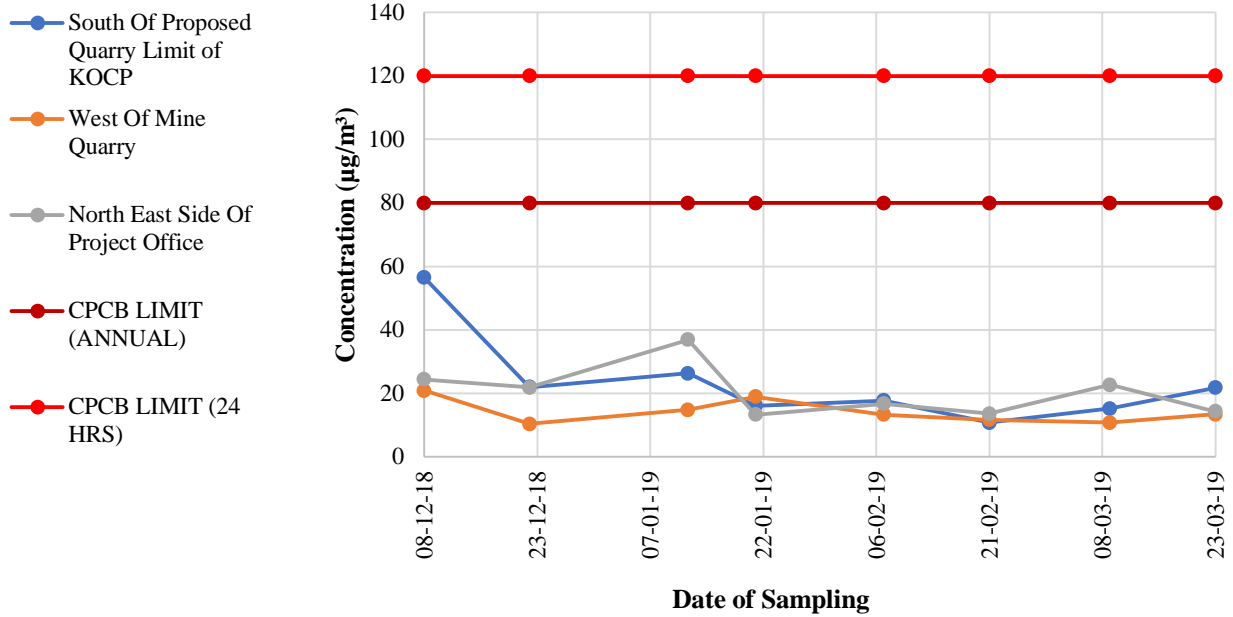
Graph showing SO₂ of Kaniha OCP (NAAQS)



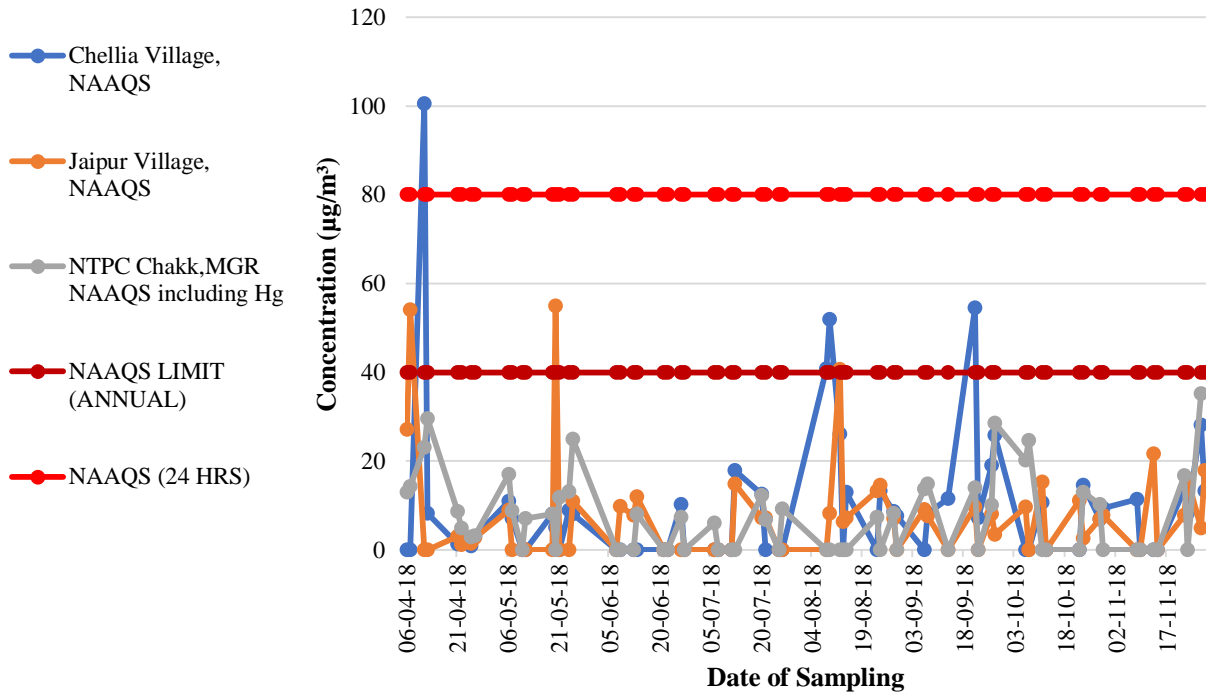
Graph showing SO₂ Kaniha OCP

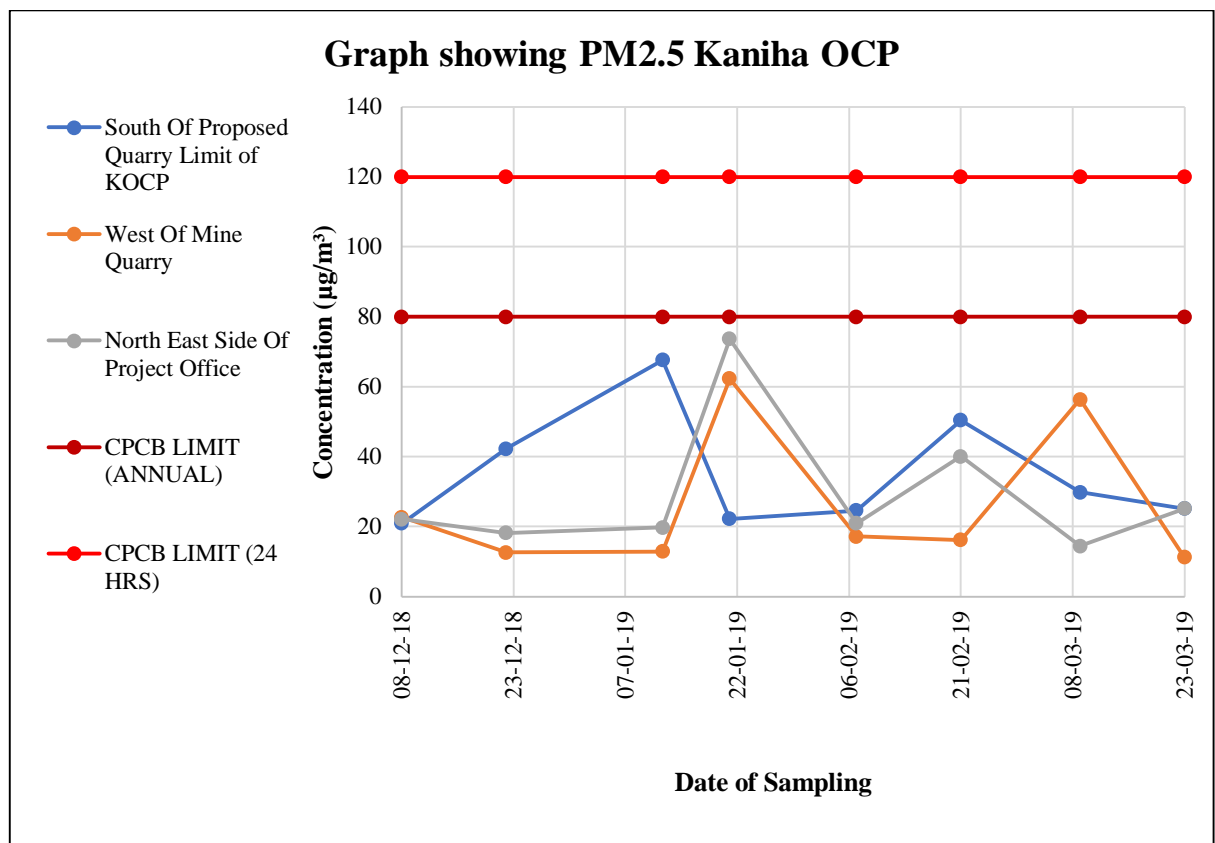
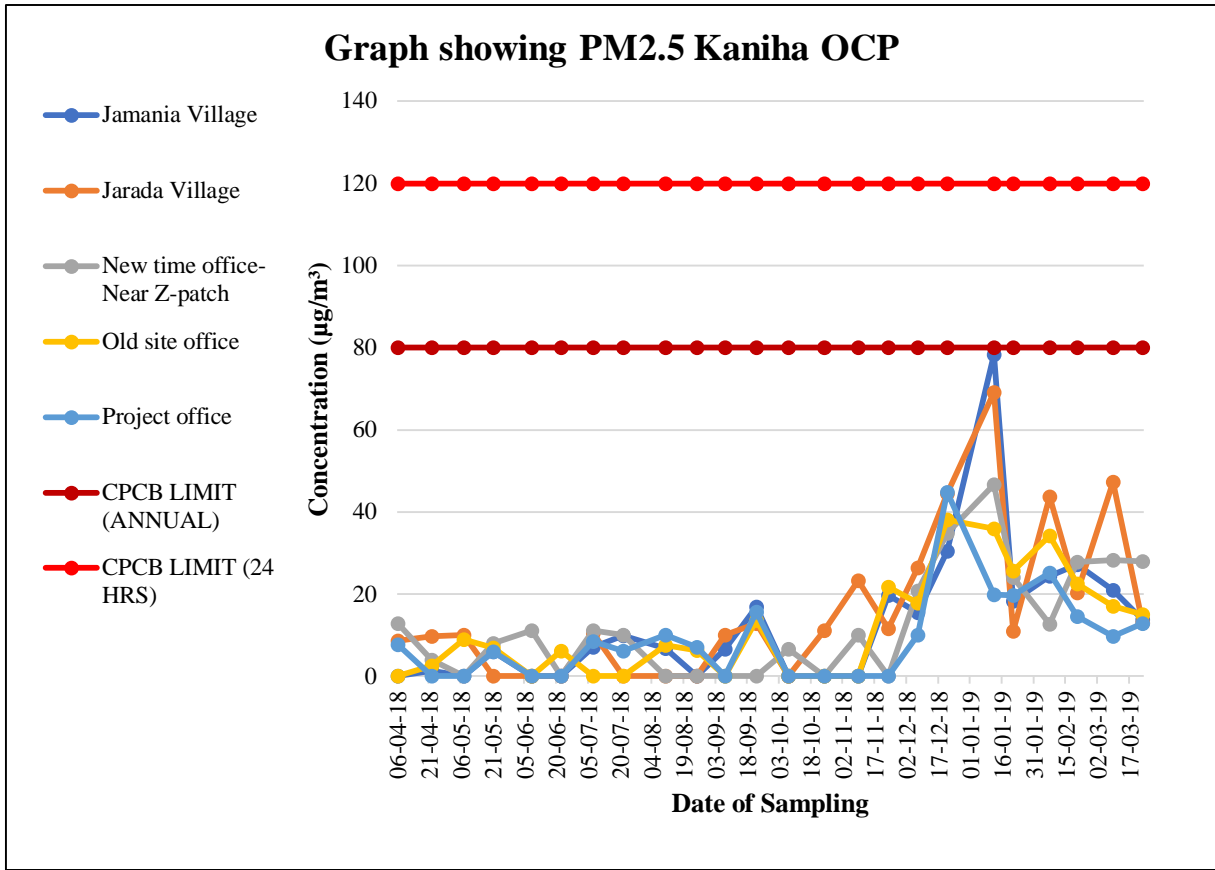


Graph showing SO₂ Kaniha OCP

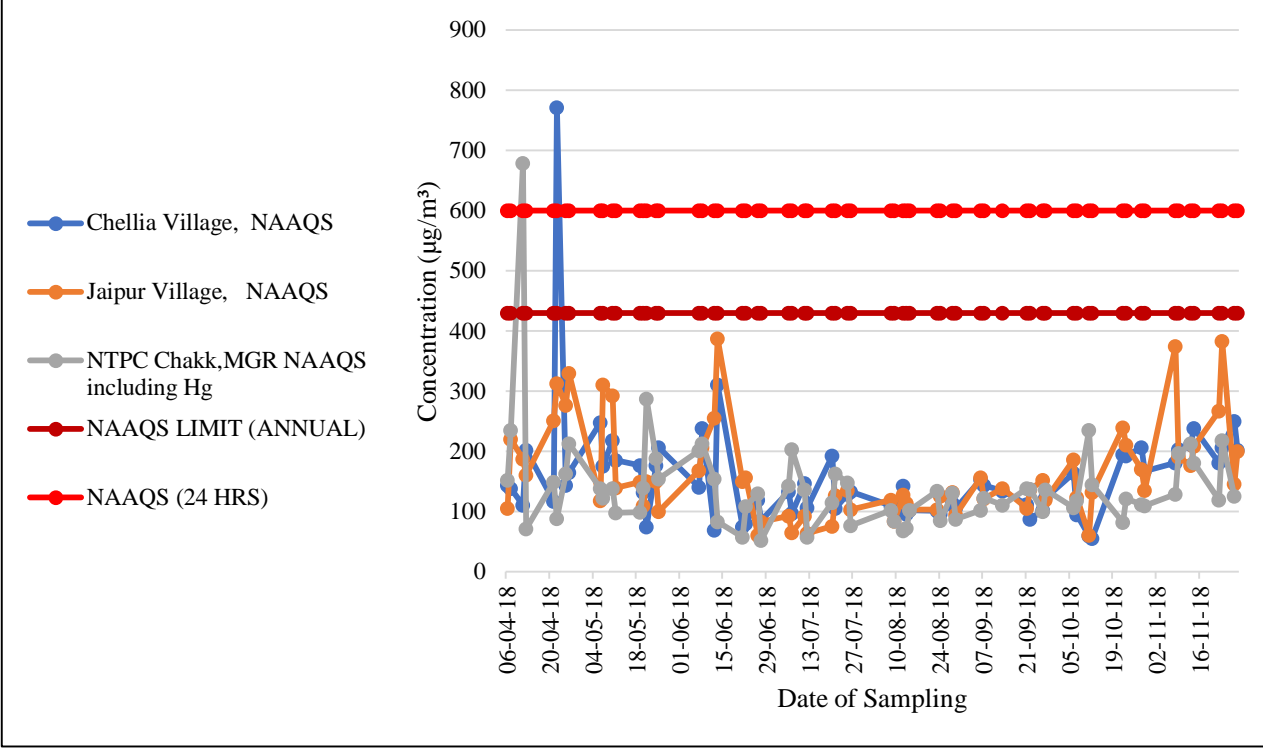


Graph showing NO_x of Kaniha OCP (NAAQS)

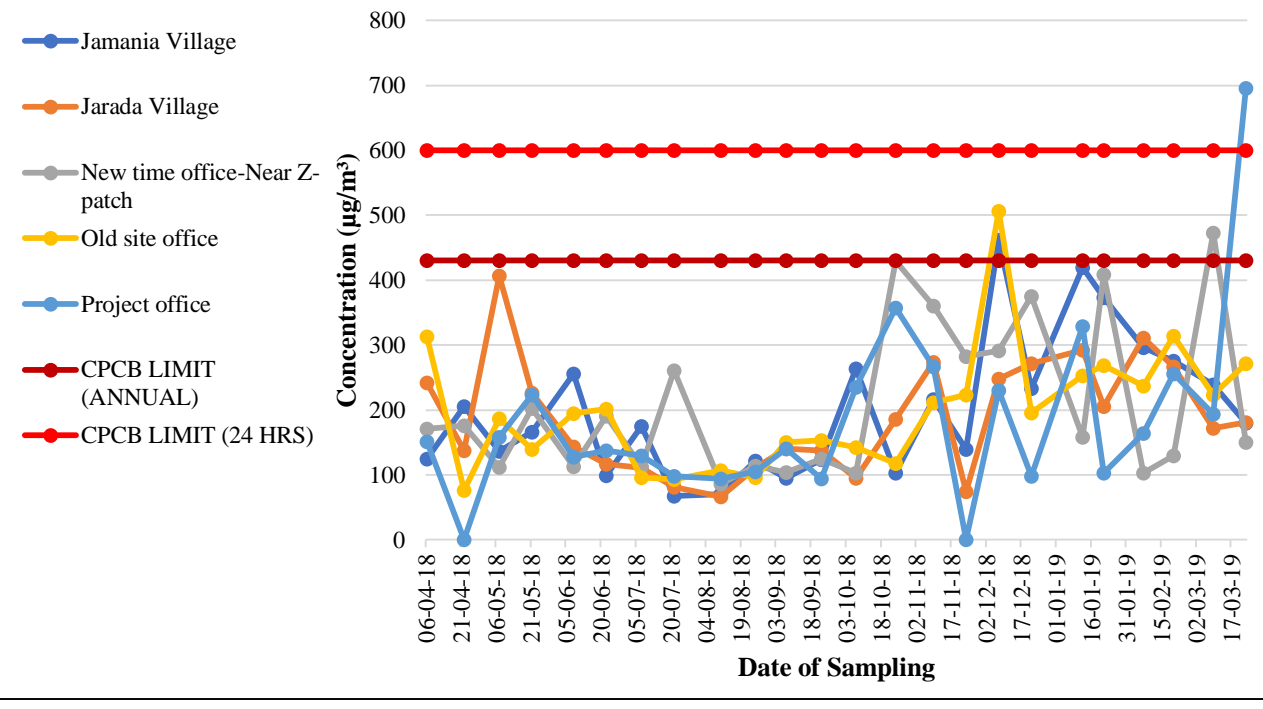




Graph showing SPM Kaniha OCP (NAAQS)



Graph showing SPM Kaniha OCP



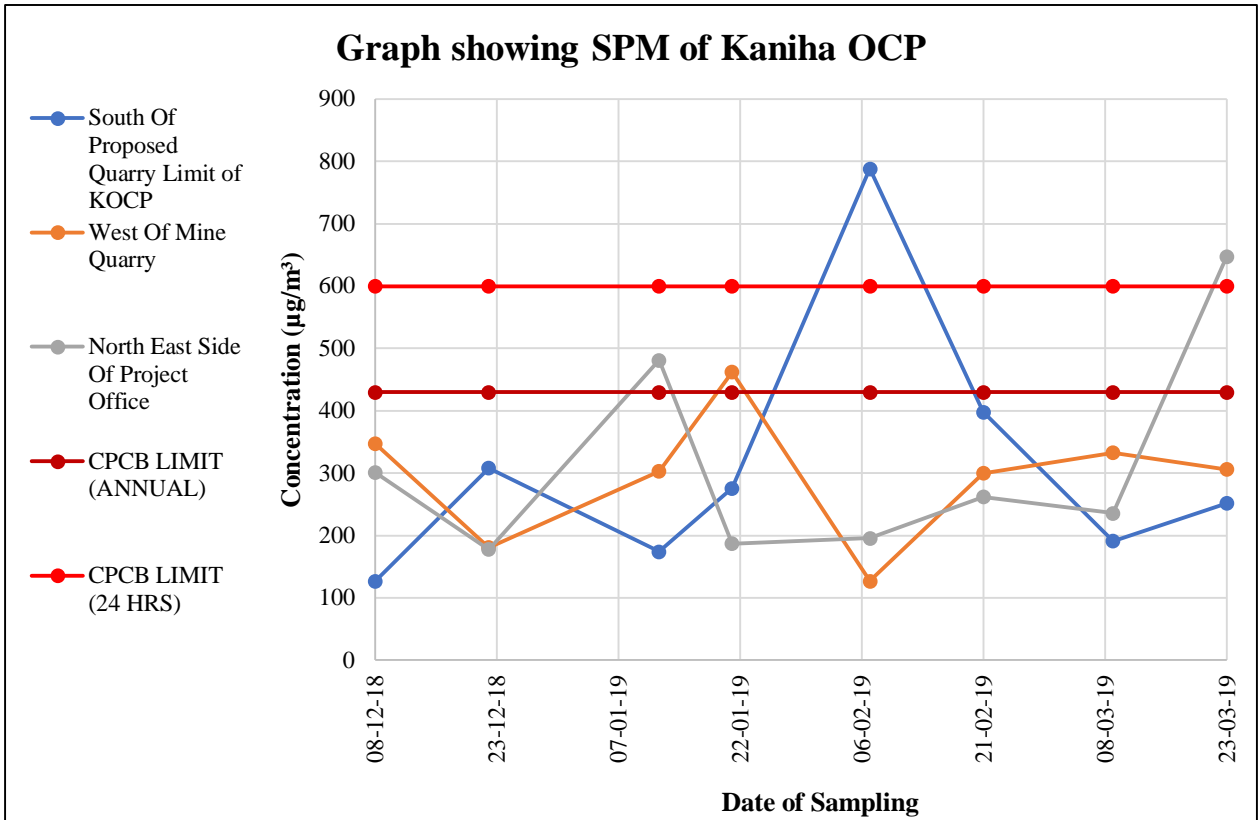


Table:34

Area: Hingula Area
Project: Hingula OCP
Monitoring Station: Time Office

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|---------------|---------------|---------------|
| 04/04/18 | 60 | 287 | 9.93 | 27.65 | 516 |
| 19/04/18 | 43 | 201 | 3.03 | 3 | 370 |
| 04/05/18 | 21 | 193 | 5.93 | 8 | 362 |
| 17/05/18 | 12 | 34 | 3.66 | 6 | 52 |
| 19/05/18 | 23 | 119 | 1.18 | <6 | 160 |
| 05/06/18 | 54 | 138 | 1.51 | <6 | 331 |
| 19/06/18 | 23 | 119 | 1.18 | <6 | 160 |
| 04/07/18 | 16 | 99 | 0.8 | 6.42 | 202 |
| 18/07/18 | 44 | 108 | 1.48 | 6.09 | 151 |
| 07/08/18 | 20 | 86 | 2.05 | 10.29 | 110 |
| 21/08/18 | 23 | 96 | 1.4 | <6 | 123 |
| 04/09/18 | 46 | 74 | 2.86 | <6 | 94 |
| 19/09/18 | 14 | 169 | 5.19 | 11.03 | 206 |
| 04/10/18 | 87 | 129 | 5.47 | <6 | 167 |
| 16/10/18 | 16 | 34 | 15 | 6.6 | 189 |
| 06/11/18 | 12 | 84 | 2.06 | 7.93 | 128 |
| 20/11/18 | 26 | 87 | 4.86 | 24.81 | 135 |
| 06/12/18 | -- | -- | -- | -- | -- |
| 19/12/18 | 59 | 167 | 10.71 | 34.71 | 213 |
| 10/01/19 | 58 | 196 | 13.2 | 18.13 | 249 |
| 28/01/19 | 35 | 79 | 26.37 | 15.85 | 202 |
| 13/02/19 | 34 | 755 | 16.17 | 24.41 | 825 |
| 25/02/19 | 39 | 151 | 12.07 | 32.58 | 319 |
| 07/03/19 | 58 | 223 | 12.67 | 13.73 | 452 |
| 26/03/19 | 47 | 94 | 11.3 | 11.27 | 132 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 87 | 755 | 26.37 | 34.71 | 825 |
| Minimum | 12 | 34 | 0.8 | 3 | 52 |
| Average | 36.25 | 155.08 | 7.086 | 14.916 | 243.66 |
| 95 Percentile | 59.85 | 277.4 | 15.99 | 32.89 | 506.4 |
| 98 Percentile | 74.58 | 539.72 | 21.678 | 33.98 | 682.86 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:35

Area: Hingula Area
Project: Hingula OCP
Monitoring Station: Near Project Office Hingula OCP

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|----------------|---------------|
| 04/04/18 | 6 | 54 | 2.86 | 15.27 | 149 |
| 19/04/18 | 59 | 360 | 2.61 | 60.27 | 422 |
| 04/05/18 | 10 | 210 | 0.78 | 10 | 452 |
| 17/05/18 | 28 | 114 | 2.31 | 12 | 237 |
| 19/05/18 | 30 | 134 | 0.63 | <6 | 293 |
| 05/06/18 | 53 | 193 | 3.82 | 10.09 | 384 |
| 19/06/18 | 30 | 134 | 0.63 | <6 | 293 |
| 04/07/18 | 15 | 74 | 3.58 | <6 | 228 |
| 18/07/18 | 37 | 90 | 2.86 | 7.55 | 164 |
| 07/08/18 | 33 | 97 | 1.33 | 7.31 | 150 |
| 21/08/18 | 28 | 84 | 2.32 | <6 | 116 |
| 04/09/18 | 45 | 151 | 16 | <6 | 183 |
| 19/09/18 | 42 | 117 | 6.46 | 12.6 | 151 |
| 04/10/18 | 47 | 205 | 6.57 | <6 | 253 |
| 16/10/18 | 29 | 116 | 9.99 | <6 | 145 |
| 06/11/18 | 20 | 61 | 4.46 | 19.82 | 173 |
| 20/11/18 | 153 | 333 | 5.95 | 9.8 | 488 |
| 06/12/18 | 85 | 240 | 17.97 | 19.08 | 313 |
| 19/12/18 | 46 | 100 | 9 | 14.08 | 182 |
| 10/01/19 | 69 | 285 | 33.62 | 43.62 | 426 |
| 28/01/19 | 42 | 166 | 27.19 | 19.19 | 254 |
| 13/02/19 | 208 | 330 | 12.18 | 28 | 361 |
| 25/02/19 | 15 | 56 | 22.73 | 46.43 | 147 |
| 07/03/19 | 57 | 142 | 14.51 | 46.66 | 198 |
| 26/03/19 | 72 | 285 | 10.13 | 13.33 | 372 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 208 | 360 | 33.62 | 60.27 | 488 |
| Minimum | 6 | 54 | 0.63 | 7.31 | 116 |
| Average | 50.36 | 165.24 | 8.81 | 21.95 | 261.36 |
| 95 Percentile | 139.4 | 332.4 | 26.29 | 48.70 | 446.8 |
| 98 Percentile | 181.6 | 347.04 | 30.53 | 55.6426 | 470.72 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:36

Area: Hingula Area
Project: Hingula OCP
Monitoring Station: Chhotobereni Village NAAQS

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|------------------|-------|------|------|-------|-----|
| 04/04/18 | 37 | 78 | 2.23 | <6 | 194 |
| 05/04/18 | 11 | 30 | 3.25 | <6 | 144 |
| 11/04/18 | 48 | 134 | 4.27 | 16.36 | 148 |
| 12/04/18 | 49 | 80 | 2.8 | 6.87 | 165 |
| 19/04/18 | 64 | 225 | 7.46 | 18.16 | 249 |
| 20/04/18 | 15 | 77 | 5.1 | 6.07 | 282 |
| 24/04/18 | 26 | 48 | 3.15 | 3.52 | 113 |
| 25/04/18 | 23 | 137 | 3.04 | 2.8 | 246 |
| 04/05/18 | 21 | 43 | 1.85 | <6 | 70 |
| 05/05/18 | 11 | 165 | 3.15 | 9 | 220 |
| 10/05/18 | 61 | 92 | 1.37 | 6 | 127 |
| 11/05/18 | 21 | 66 | 1.9 | <6 | 128 |
| 17/05/18 | 18 | 58 | 2.35 | 9 | 95 |
| 18/05/18 | 11 | 46 | 4.58 | 12 | 68 |
| 19/05/18 | 13 | 82 | 0.26 | <6 | 177 |
| 20/05/18 | 21 | 67 | 0.34 | <6 | 154 |
| 23/05/18 | 17 | 65 | 3.18 | 7 | 128 |
| 24/05/18 | 21 | 40 | 4.69 | 10 | 87 |
| 05/06/18 | 52 | 106 | 2.1 | 8.52 | 183 |
| 06/06/18 | 39 | 62 | 2.72 | 8.33 | 94 |
| 11/06/18 | 21 | 56 | 1.84 | <6 | 130 |
| 12/06/18 | 15 | 93 | 4.13 | <6 | 167 |
| 19/06/18 | 13 | 82 | 0.26 | <6 | 177 |
| 20/06/18 | 21 | 67 | 0.34 | <6 | 154 |
| 25/06/18 | 13 | 84 | 1.29 | <6 | 117 |
| 26/06/18 | 22 | 109 | 0.92 | <6 | 227 |
| 04/07/18 | 17 | 72 | 1.08 | <6 | 111 |
| 05/07/18 | 26 | 86 | 2.46 | 6.02 | 158 |
| 10/07/18 | 23 | 91 | 3.54 | <6 | 146 |
| 11/07/18 | 18 | 76 | 1.9 | <6 | 140 |
| 18/07/18 | 23 | 65 | 1.04 | <6 | 93 |
| 19/07/18 | 28 | 84 | 5.48 | <6 | 117 |
| 24/07/18 | 16 | 67 | 2.43 | <6 | 109 |
| 25/07/18 | 16 | 53 | 2.62 | <6 | 84 |
| 07/08/18 | 25 | 90 | 1.58 | 6.28 | 120 |
| 08/08/18 | 23 | 79 | 1.36 | 9.64 | 117 |
| 13/08/18 | 34 | 67 | 1.96 | <6 | 88 |
| 14/08/18 | 36 | 71 | 2.43 | 6.26 | 125 |
| 21/08/18 | 28 | 88 | 1.88 | <6 | 126 |

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|----------------|----------------|---------------|
| 22/08/18 | 25 | 82 | 1.84 | 11.38 | 110 |
| 27/08/18 | 37 | 84 | 3.66 | 8.02 | 122 |
| 28/08/18 | 34 | 69 | 3.54 | 9.13 | 95 |
| 04/09/18 | 39 | 97 | 7.71 | 6.9 | 137 |
| 05/09/18 | 30 | 92 | 10.11 | <6 | 115 |
| 11/09/18 | 43 | 122 | 4.94 | 9.36 | 152 |
| 12/09/18 | 28 | 95 | 4.97 | <6 | 144 |
| 19/09/18 | 28 | 137 | 15.54 | <6 | 157 |
| 20/09/18 | 19 | 92 | 3.98 | <6 | 117 |
| 25/09/18 | 34 | 110 | 3.66 | <6 | 129 |
| 26/09/18 | 24 | 97 | 7.65 | 7.76 | 138 |
| 04/10/18 | 49 | 96 | 7.78 | 12.89 | 123 |
| 05/10/18 | 37 | 64 | 10.3 | 20.26 | 193 |
| 10/10/18 | 32 | 50 | 10.86 | 20.13 | 71 |
| 11/10/18 | 34 | 65 | 8.66 | <6 | 111 |
| 16/10/18 | 22 | 150 | 4.13 | <6 | 177 |
| 17/10/18 | 33 | 89 | 9.24 | 7.3 | 172 |
| 25/10/18 | 15 | 72 | 4.94 | 6.07 | 130 |
| 26/10/18 | 19 | 75 | 5.48 | 7.33 | 139 |
| 06/11/18 | 51 | 71 | 3.79 | 16.99 | 139 |
| 07/11/18 | 77 | 143 | 11.44 | 21.5 | 268 |
| 12/11/18 | 41 | 178 | 9.49 | 22.06 | 317 |
| 13/11/18 | 59 | 132 | 3.43 | <6 | 261 |
| 20/11/18 | 24 | 216 | 3.93 | 29.88 | 387 |
| 21/11/18 | 45 | 249 | 6.57 | 17.42 | 358 |
| 26/11/18 | 23 | 266 | 3.92 | 12.93 | 467 |
| 27/11/18 | 21 | 175 | 2.12 | <6 | 379 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| 95 Percentile | 58.65 | 149.65 | 10.29 | 20.756 | 260.4 |
| 98 Percentile | 63.34 | 175.14 | 11.3124 | 21.7016 | 278.92 |
| Average | 29.21 | 94.98 | 4.15 | 11.08 | 158.56 |
| Maximum | 77 | 266 | 15.54 | 29.88 | 467 |
| Minimum | 11 | 40 | 0.26 | 2.8 | 68 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:37

**Area: Hingula Area
 Project: Hingula OCP
 Monitoring Station: Kumunda Village NAAQS**

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|-------------------------|--------------|-------------|------------|------------|------------|
| 04/04/18 | 18 | 51 | 1.46 | 6.82 | 65 |
| 05/04/18 | 29 | 132 | 7.05 | 28.01 | 226 |
| 11/04/18 | 56 | 114 | 1.29 | 6.09 | 134 |
| 12/04/18 | 35 | 98 | 2.64 | 6.58 | 303 |
| 19/04/18 | 52 | 81 | 3.14 | 28.57 | 170 |
| 20/04/18 | 38 | 64 | 5.93 | 7.1 | 109 |
| 24/04/18 | 36 | 97 | 2.25 | 2.44 | 141 |
| 25/04/18 | 30 | 140 | 2.22 | 2.64 | 183 |
| 04/05/18 | 10 | 60 | 1.15 | 7 | 146 |
| 05/05/18 | 15 | 63 | 0.75 | <6 | 241 |
| 10/05/18 | 120 | 206 | 5.64 | <6 | 265 |
| 11/05/18 | 9 | 106 | 4.24 | <6 | 203 |
| 17/05/18 | 10 | 46 | 2.66 | <6 | 81 |
| 18/05/18 | 13 | 47 | 3 | 18 | 102 |
| 19/05/18 | 19 | 60 | 1.71 | <6 | 102 |
| 20/05/18 | 17 | 78 | 0.71 | <6 | 135 |
| 23/05/18 | 16 | 91 | 3.34 | 25 | 188 |
| 24/05/18 | 15 | 61 | 3.67 | 19 | 156 |
| 05/06/18 | 65 | 74 | 2.36 | <6 | 134 |
| 06/06/18 | 49 | 46 | 2.39 | 4.02 | 87 |
| 11/06/18 | 13 | 53 | 1.37 | <6 | 72 |
| 12/06/18 | 14 | 21 | 1.32 | <6 | 48 |
| 19/06/18 | 19 | 60 | 1.71 | <6 | 102 |
| 20/06/18 | 17 | 78 | 0.71 | <6 | 135 |
| 25/06/18 | | 40 | 0.63 | <6 | 60 |
| 26/06/18 | 19 | 38 | 0.38 | <6 | 76 |
| 04/07/18 | 23 | 52 | 0.64 | <6 | 89 |
| 05/07/18 | 26 | 47 | 0.88 | <6 | 92 |
| 10/07/18 | 12 | 50 | 0.69 | <6 | 98 |
| 11/07/18 | 12 | 34 | 0.96 | <6 | 62 |
| 18/07/18 | 14 | 62 | 2.16 | <6 | 108 |
| 19/07/18 | 17 | 58 | 2.52 | <6 | 88 |
| 24/07/18 | 19 | 51 | 2.26 | 27.1 | 79 |
| 25/07/18 | 12 | 60 | 2.48 | 7.03 | 86 |
| 07/08/18 | 24 | 87 | 5.92 | <6 | 117 |
| 08/08/18 | 20 | 53 | 1.21 | <6 | 72 |
| 13/08/18 | 17 | 67 | 1.69 | <6 | 111 |

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|--------------|---------------|
| 14/08/18 | 15 | 57 | 3.84 | 8.8 | 73 |
| 21/08/18 | 14 | 63 | 2.69 | <6 | 80 |
| 22/08/18 | 11 | 70 | 2.23 | <6 | 94 |
| 27/08/18 | 19 | 86 | 1.13 | <6 | 110 |
| 28/08/18 | 13 | 65 | 3.42 | 13.67 | 85 |
| 04/09/18 | 23 | 75 | 11.12 | 8.77 | 91 |
| 05/09/18 | 18 | 60 | 6.83 | 6.65 | 78 |
| 11/09/18 | 20 | 96 | 4.93 | <6 | 111 |
| 12/09/18 | 36 | 96 | 4.4 | <6 | 123 |
| 19/09/18 | 38 | 91 | 2.05 | 6.55 | 143 |
| 20/09/18 | 29 | 71 | 2.93 | 6.63 | 100 |
| 25/09/18 | 36 | 88 | 3.64 | <6 | 118 |
| 26/09/18 | 32 | 89 | 13.92 | <6 | 132 |
| 04/10/18 | 49 | 165 | 6.66 | <6 | 278 |
| 05/10/18 | 21 | 80 | 6.54 | <6 | 106 |
| 10/10/18 | 30 | 46 | 12.09 | <6 | 81 |
| 11/10/18 | 29 | 66 | 8.67 | 7.63 | 82 |
| 16/10/18 | 17 | 59 | 3.07 | <6 | 94 |
| 17/10/18 | 13 | 50 | 7.84 | 6.51 | 62 |
| 25/10/18 | 26 | 51 | 4.29 | <6 | 90 |
| 26/10/18 | 20 | 43 | 11.77 | <6 | 115 |
| 06/11/18 | 29 | 137 | 14.69 | 42.94 | 149 |
| 07/11/18 | 23 | 196 | 3.75 | 11.02 | 234 |
| 12/11/18 | 37 | 140 | 4.81 | 10.07 | 203 |
| 13/11/18 | 28 | 92 | 3.16 | 9.83 | 134 |
| 20/11/18 | 27 | 177 | 2.32 | 13.02 | 250 |
| 21/11/18 | 25 | 139 | 3.48 | 6.63 | 178 |
| 26/11/18 | 46 | 81 | 1.86 | 13.65 | 149 |
| 27/11/18 | 71 | 97 | 1.43 | <6 | 170 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 120 | 206 | 14.69 | 42.94 | 303 |
| Minimum | 9 | 21 | 0.38 | 2.44 | 48 |
| Average | 26.53 | 79.57 | 3.70 | 12.25 | 126.95 |
| 95 Percentile | 55.20 | 158.75 | 11.60 | 28.31 | 247.75 |
| 98 Percentile | 69.32 | 190.30 | 13.37 | 34.60 | 274.10 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:38

Area: Hingula Area
Project: Hingula OCP
Monitoring Station: North Side Of the Mine

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|--------------|---------------|
| 19/12/18 | 20 | 78 | 13.84 | 35.98 | 138 |
| 06/12/18 | 83 | 144 | 20.49 | 14.64 | 212 |
| 11/01/19 | 77 | 292 | 19.84 | 25.02 | 394 |
| 28/01/19 | 94 | 243 | 10.05 | 61.41 | 295 |
| 13/02/19 | 26 | 435 | 15.04 | 33.12 | 529 |
| 25/02/19 | 23 | 105 | 19.28 | 50.36 | 159 |
| 07/03/19 | 55 | 294 | 12.12 | 19.7 | 340 |
| 26/03/19 | 18 | 214 | 13.19 | 15.78 | 513 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 94 | 435 | 20.49 | 61.41 | 529 |
| Minimum | 18 | 78 | 10.05 | 14.64 | 138 |
| Average | 49.5 | 225.62 | 15.48 | 32.00 | 322.50 |
| 95 Percentile | 90.15 | 385.65 | 20.26 | 57.54 | 523.40 |
| 98 Percentile | 92.46 | 415.26 | 20.39 | 59.86 | 526.76 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

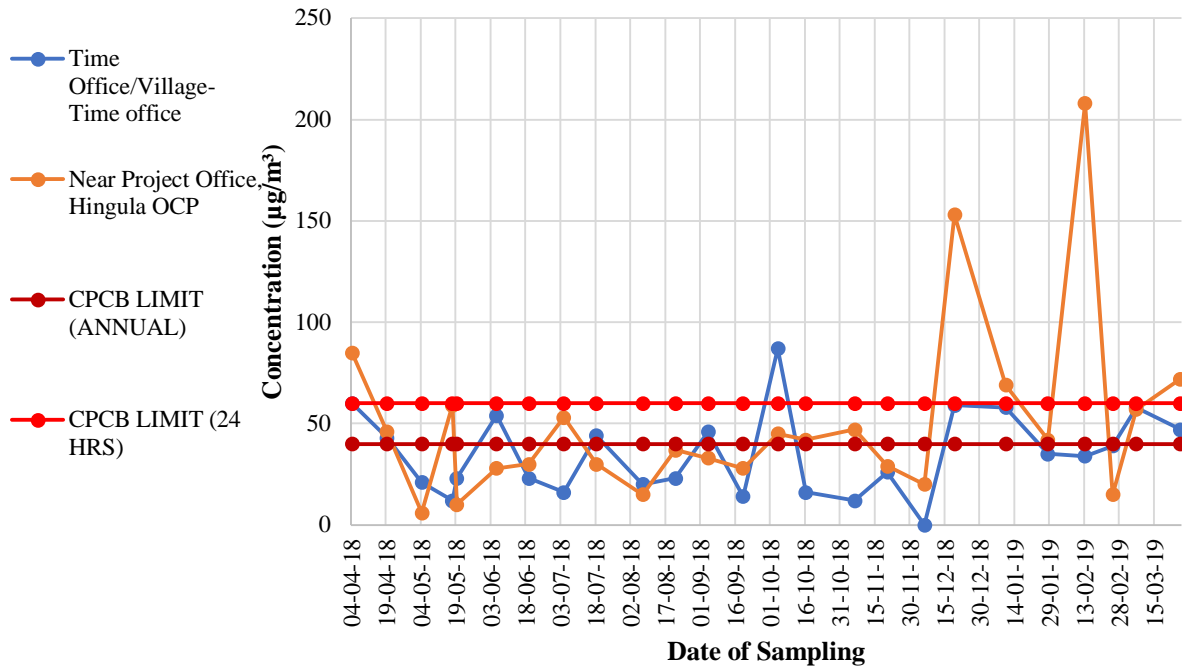
Table:39

Area: Hingula Area
Project: Hingula OCP
Monitoring Station: South-West Side of Mine

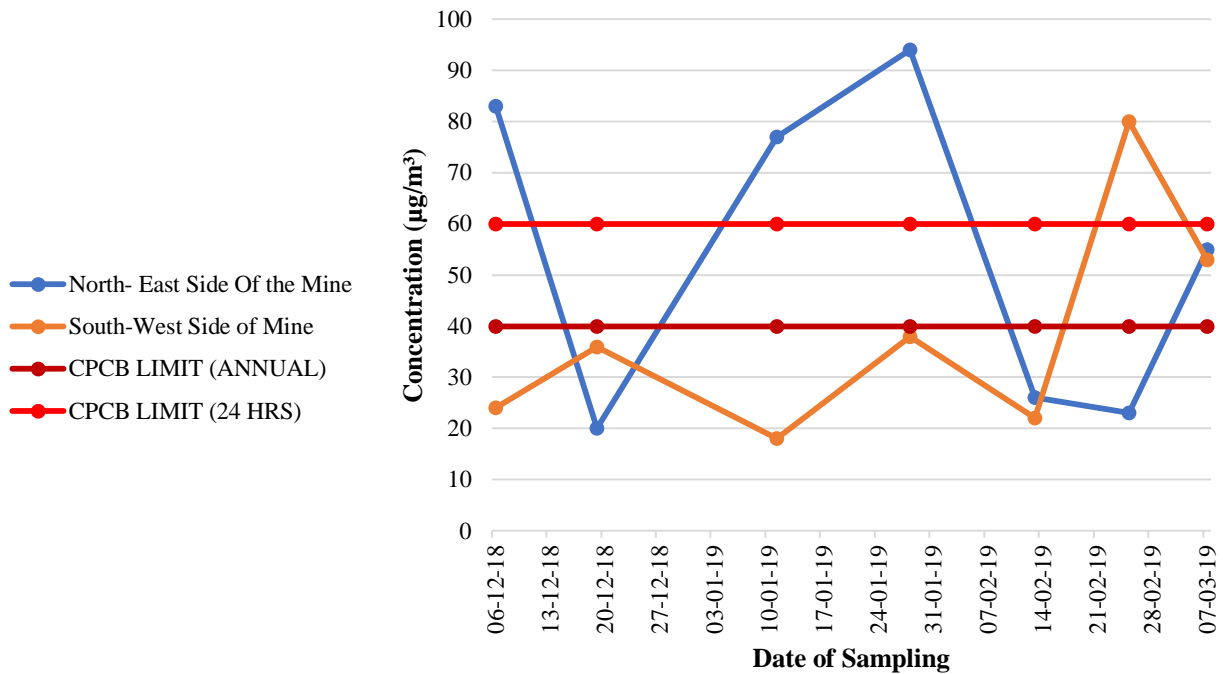
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|--------------|---------------|
| 19/12/18 | 36 | 91 | 34.77 | 35.32 | 148 |
| 16/01/19 | 24 | 182 | 10.87 | 14.93 | 350 |
| 28/01/19 | 18 | 101 | 11.55 | 14.64 | 158 |
| 13/02/19 | 38 | 219 | 13.41 | 25.07 | 254 |
| 26/02/19 | 22 | 83 | 20.53 | 54.2 | 190 |
| 07/03/19 | 80 | 135 | 13.18 | 35.55 | 212 |
| 26/03/19 | 53 | 182 | 13.4 | 12.5 | 255 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 80 | 219 | 34.77 | 54.2 | 350 |
| Minimum | 18 | 83 | 10.87 | 12.5 | 148 |
| Average | 38.71 | 141.85 | 16.81 | 27.45 | 223.85 |
| 95 Percentile | 71.9 | 207.9 | 30.49 | 48.60 | 321.5 |
| 98 Percentile | 76.76 | 214.56 | 33.06 | 51.96 | 338.6 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

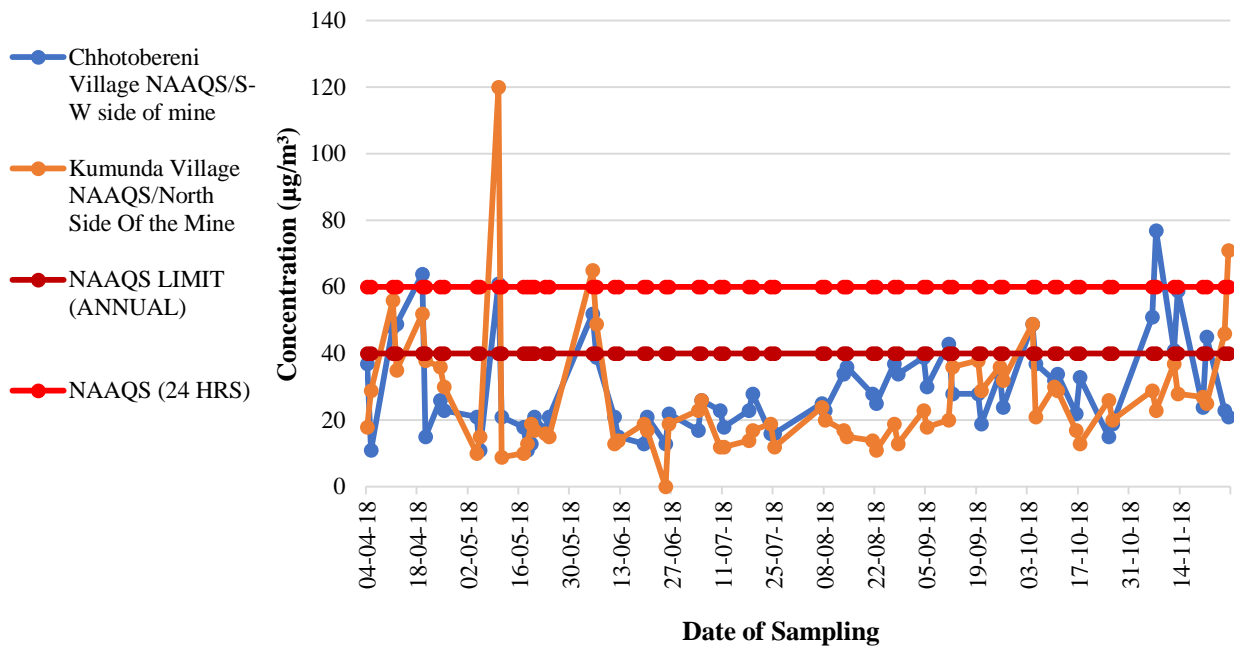
Graph showing PM 2.5 Hingula OCP



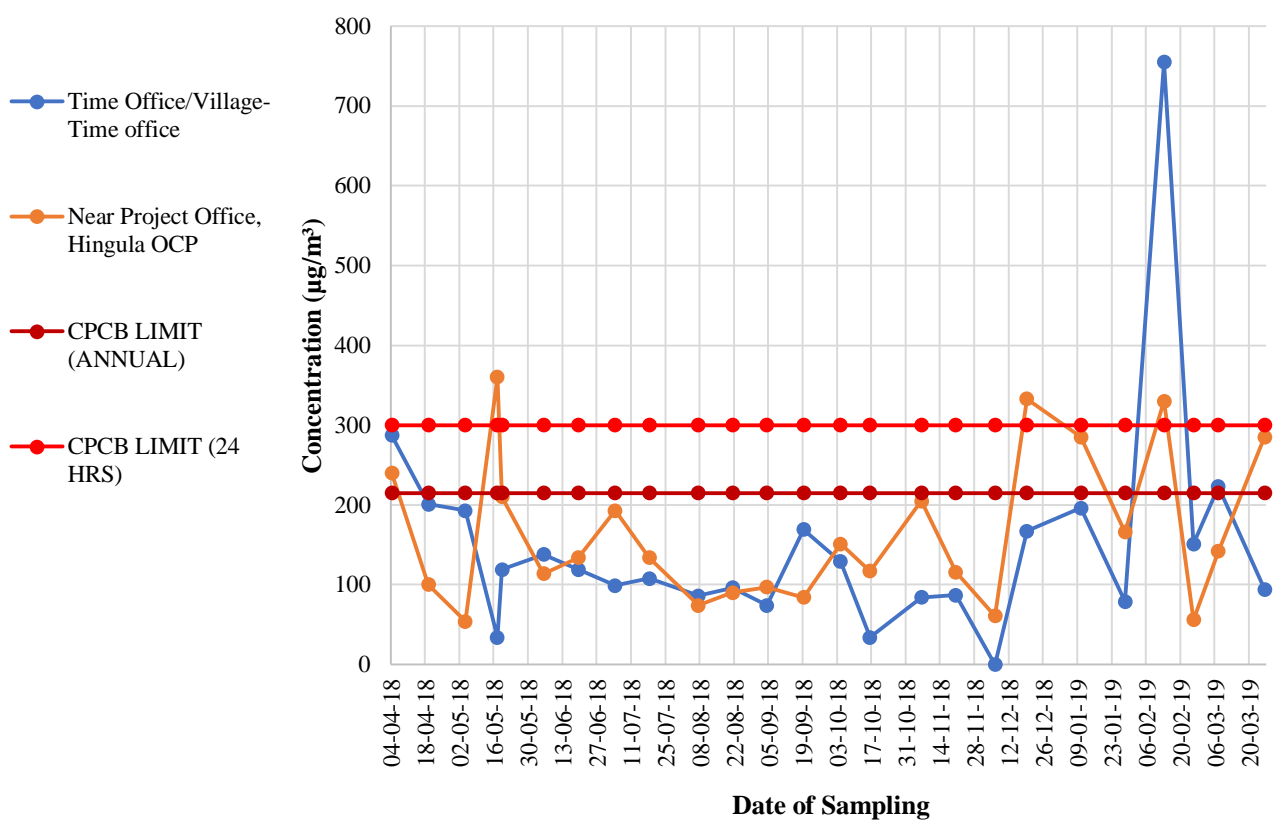
Graph showing PM 2.5 Hingula OCP

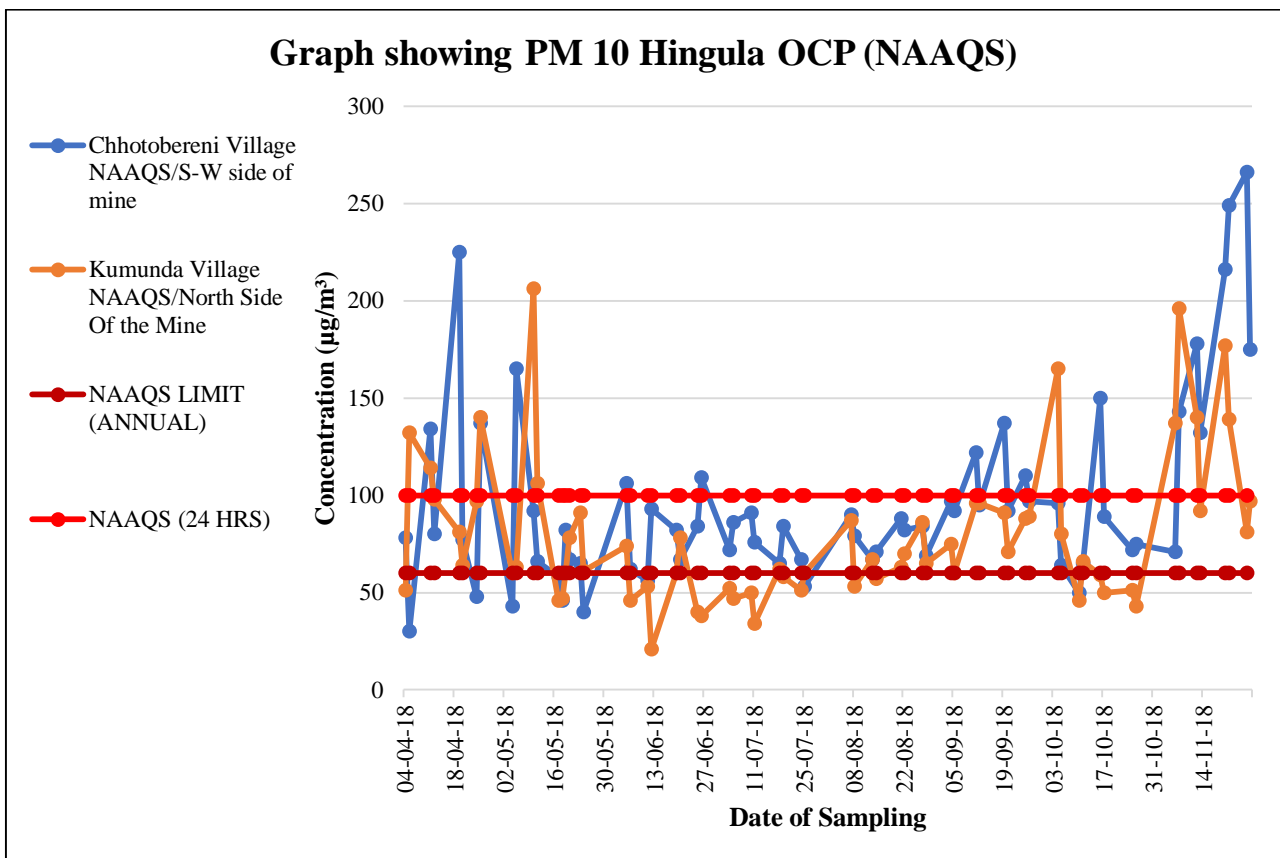
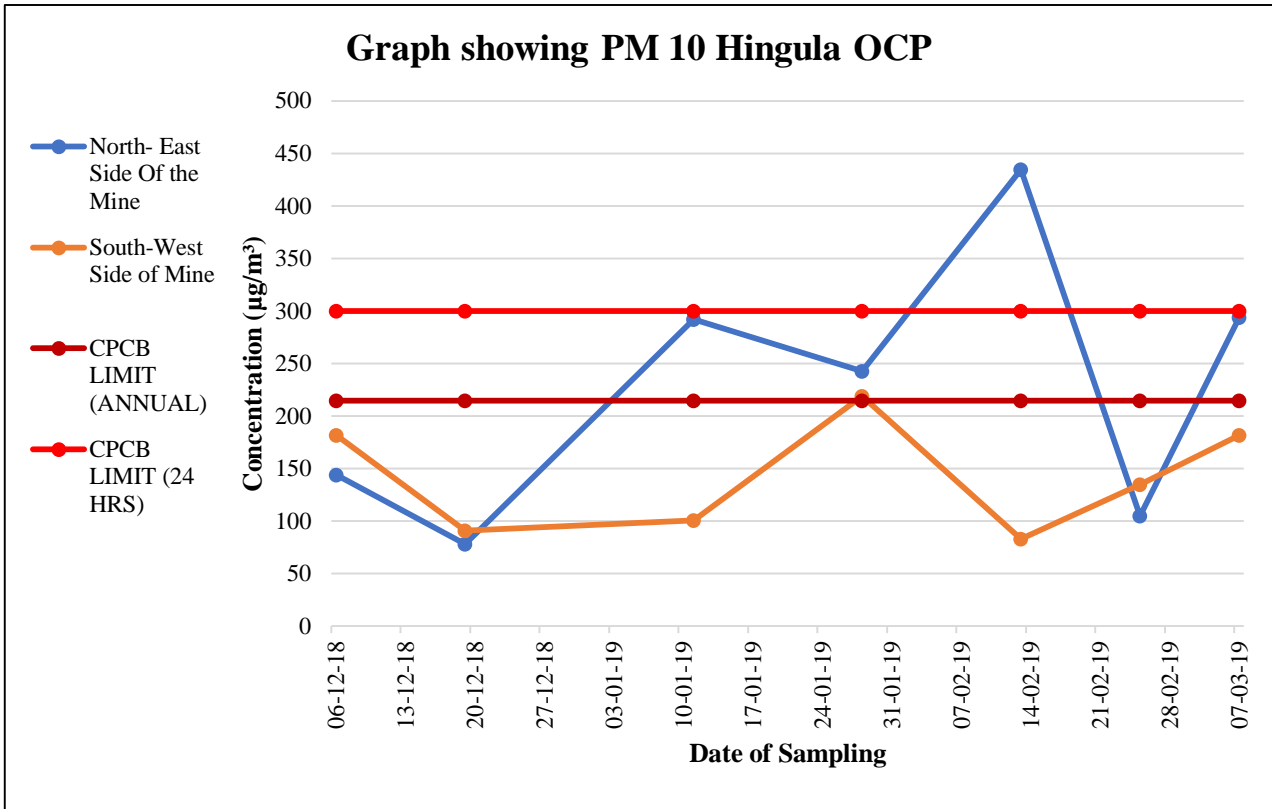


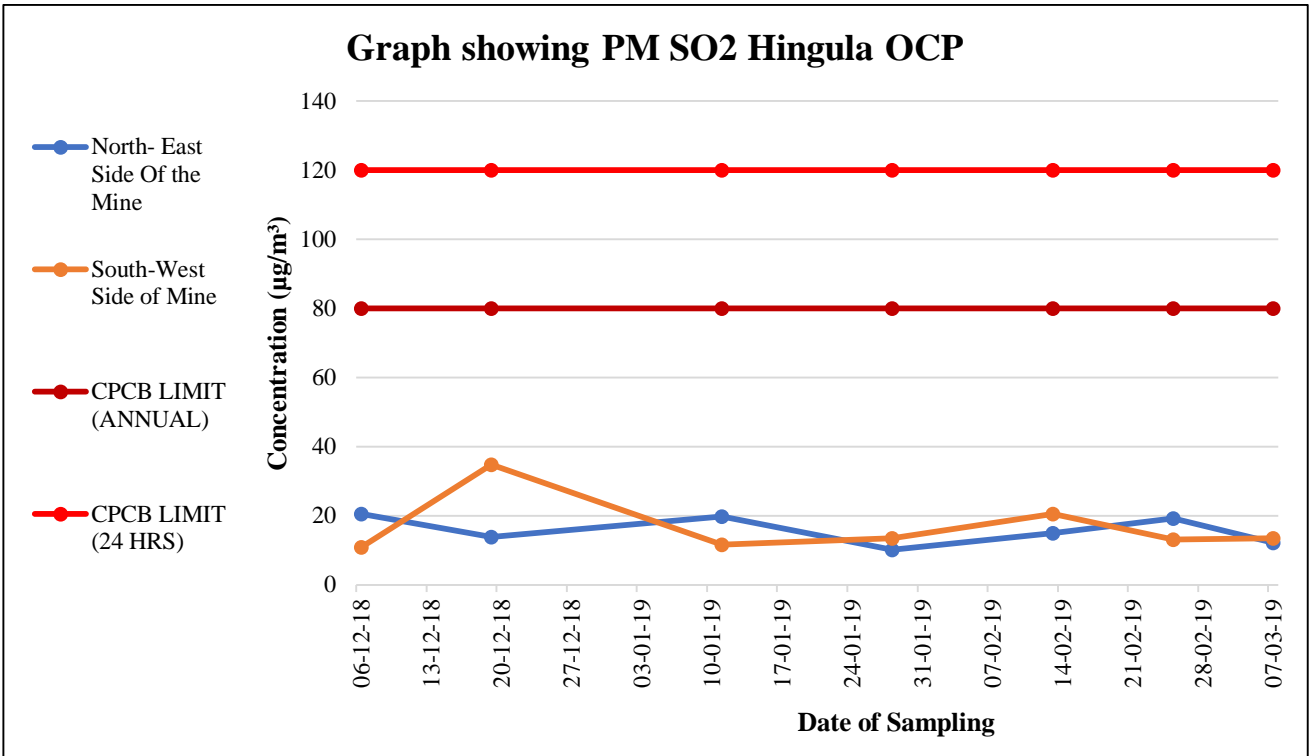
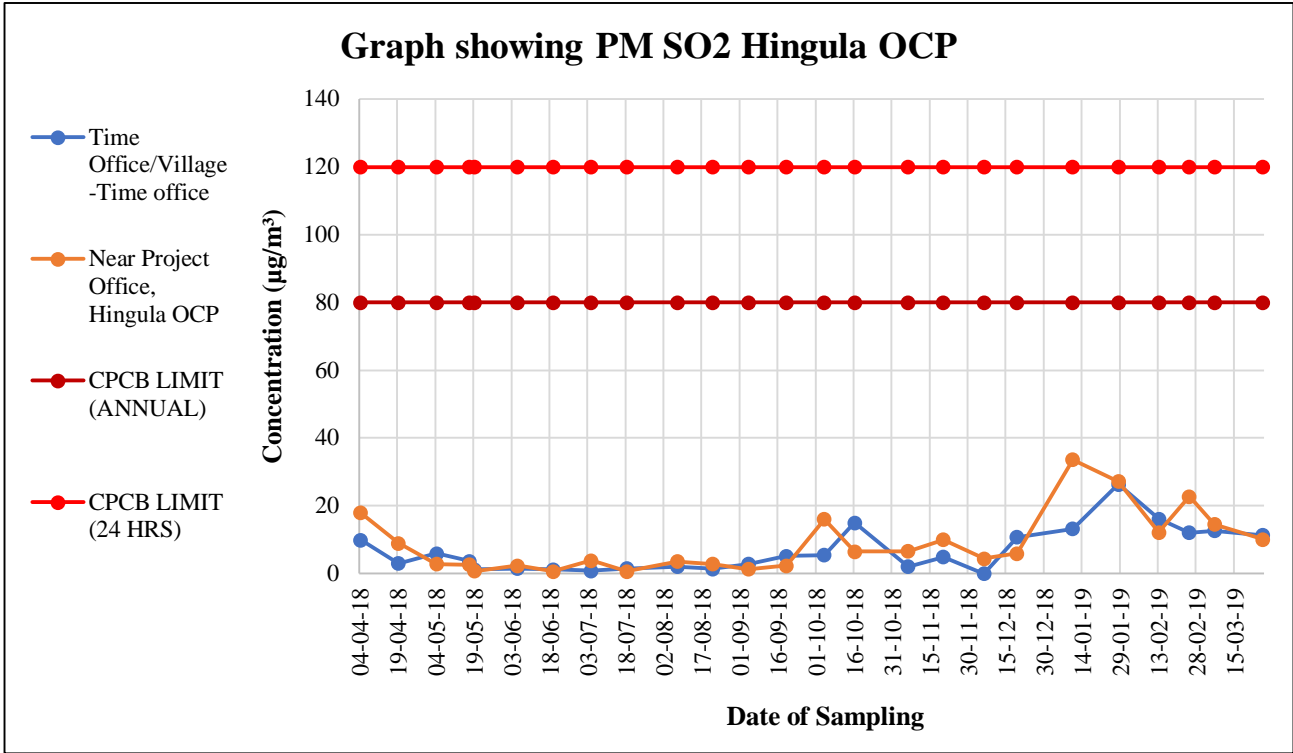
Graph showing PM 2.5 Hingula OCP (NAAQS)



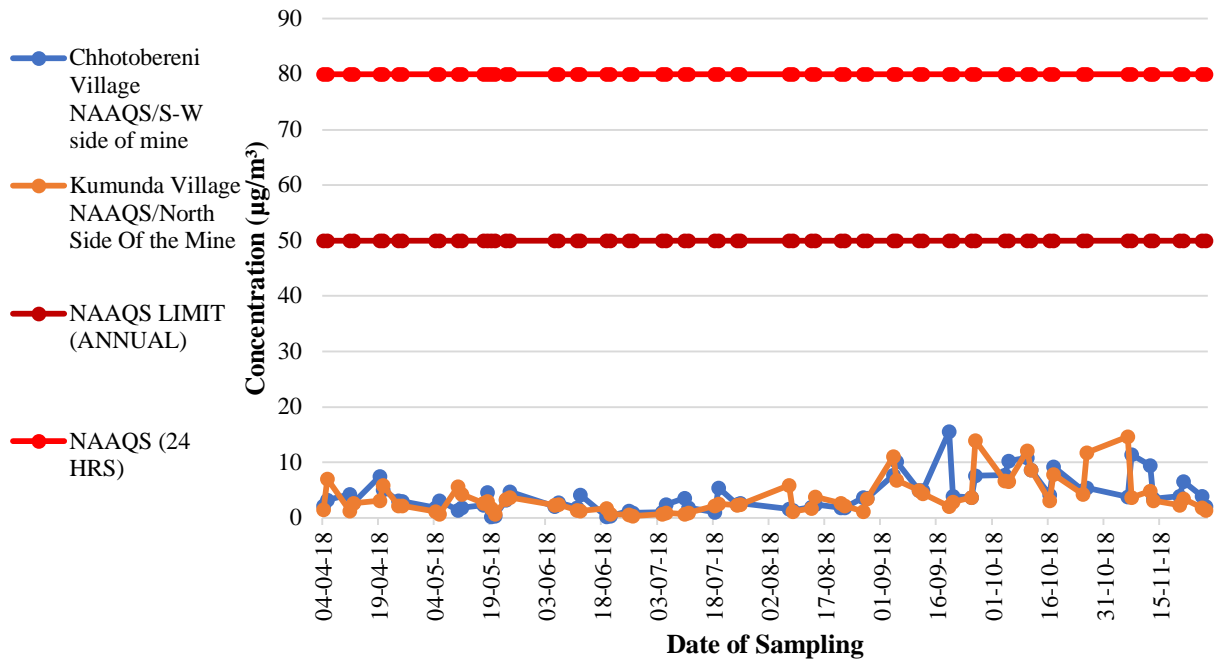
Graph showing PM 10 Hingula OCP



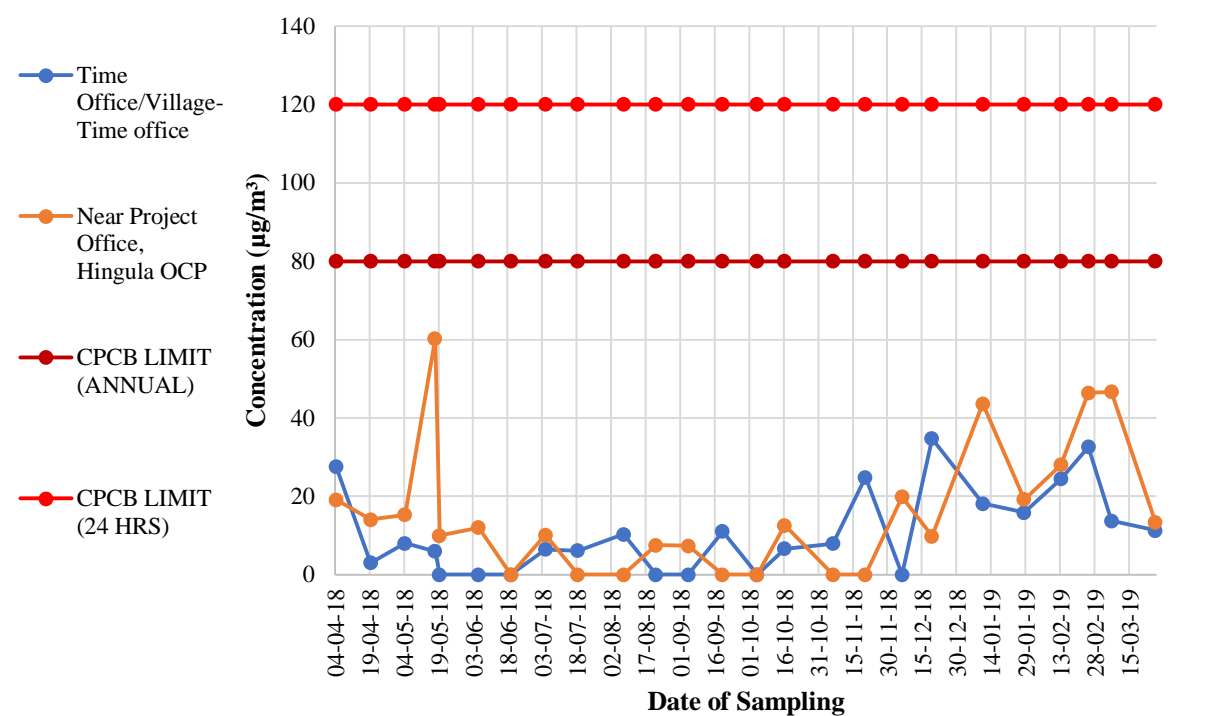




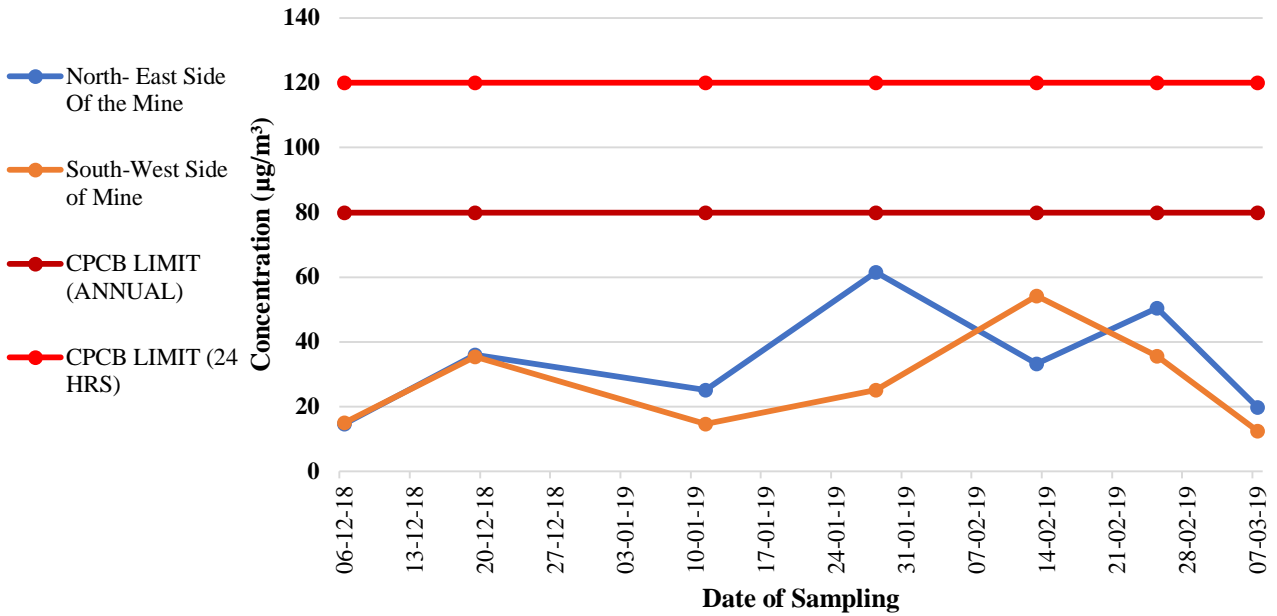
Graph showing SO₂ Hingula OCP (NAAQS)



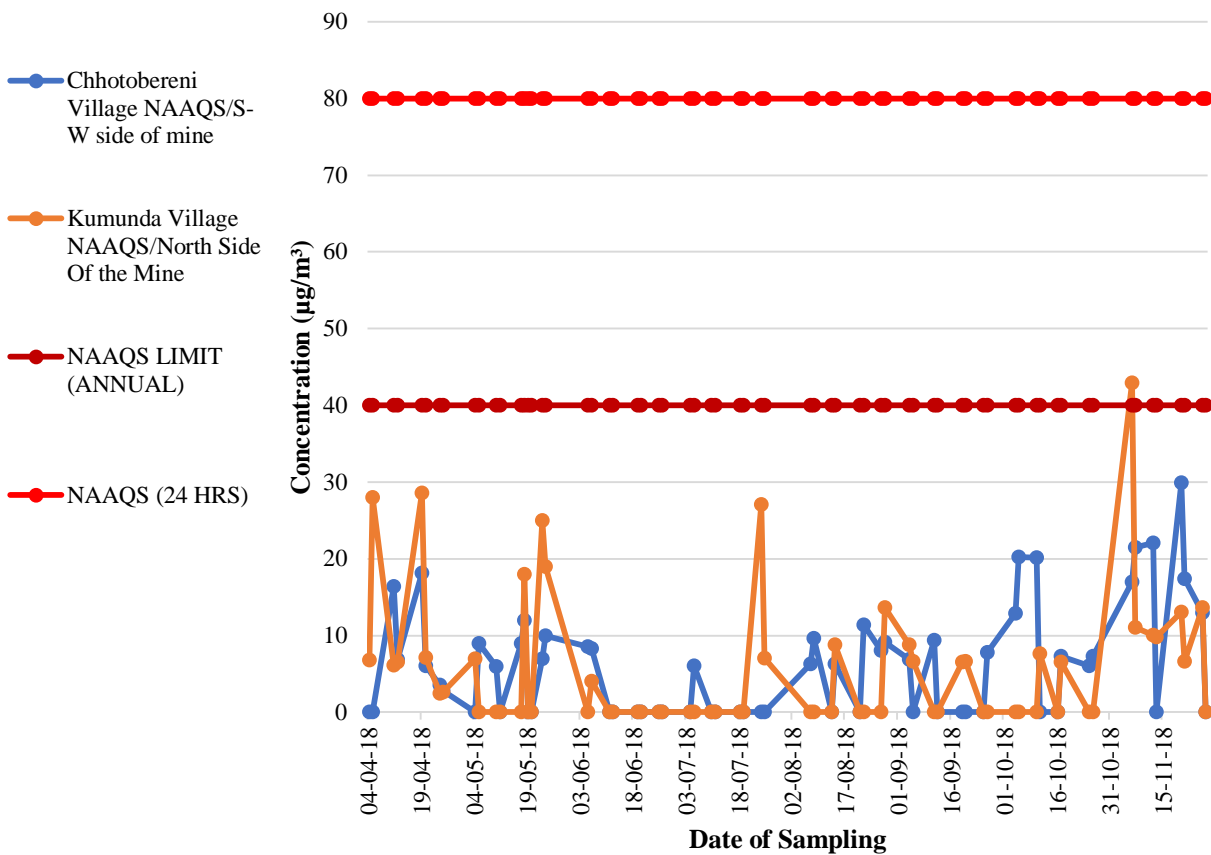
Graph showing NO_x Hingula OCP



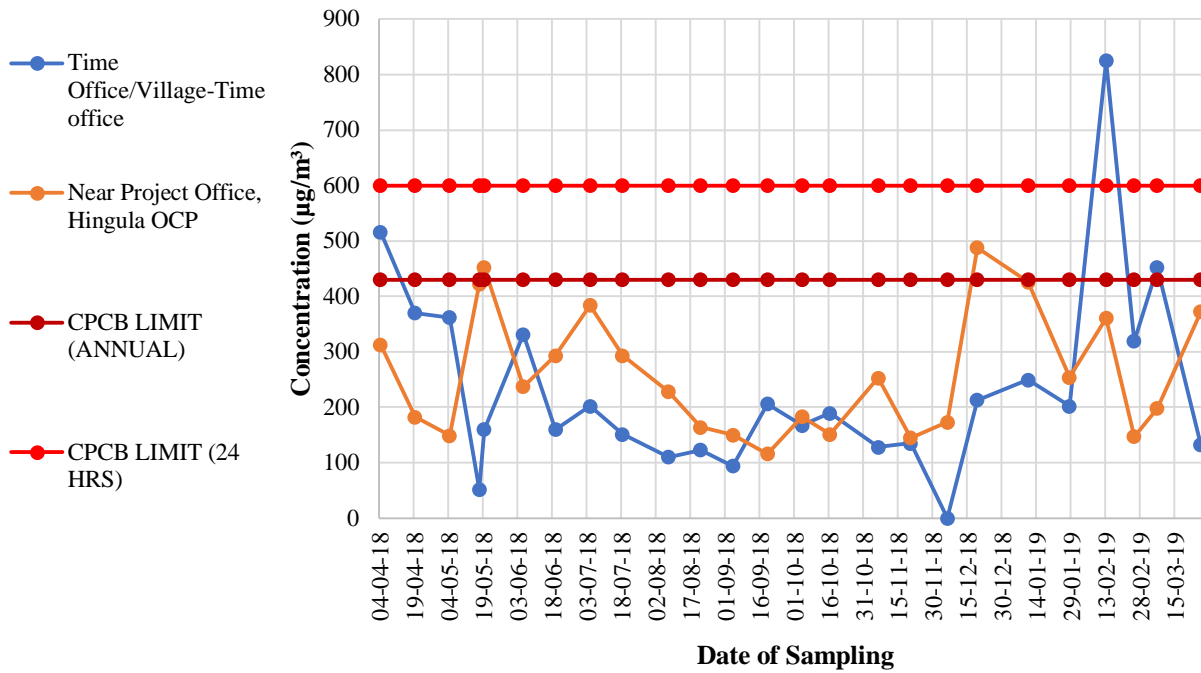
Graph showing NO_x Hingula OCP



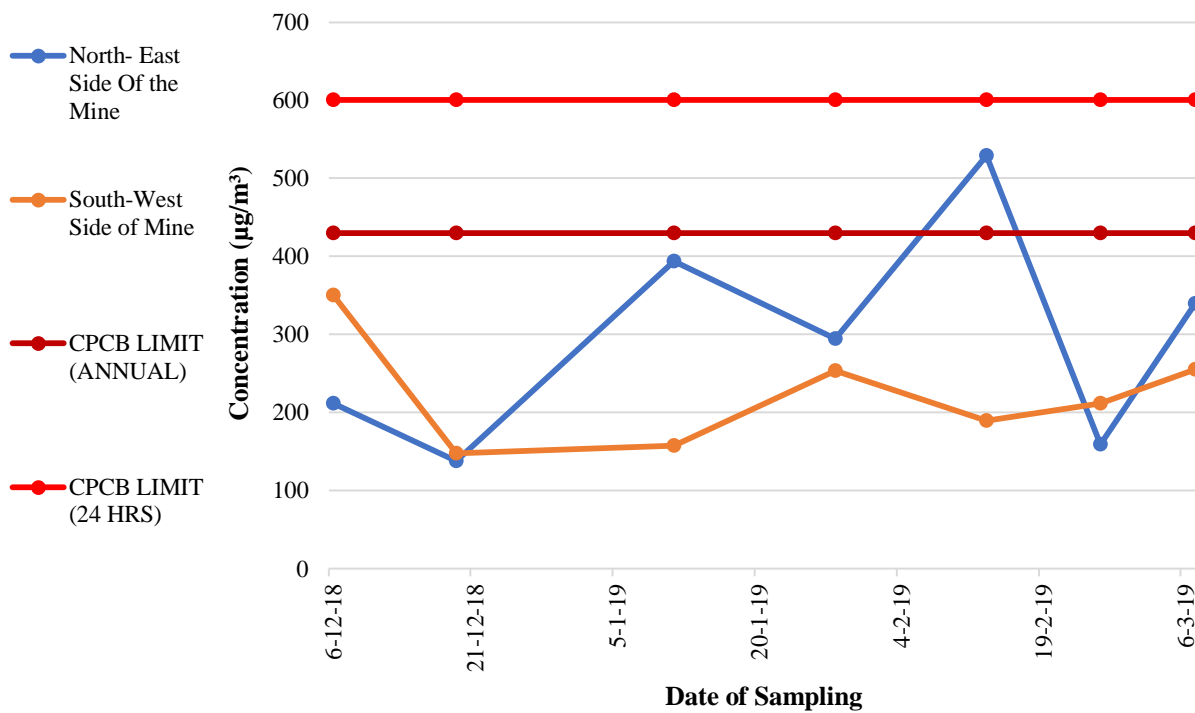
Graph showing NO_x Hingula OCP (NAASQ)



Graph showing SPM Hingula OCP



Graph showing SPM of Hingula OCP



Graph showing SPM of Hingula OCP (NAAQS)

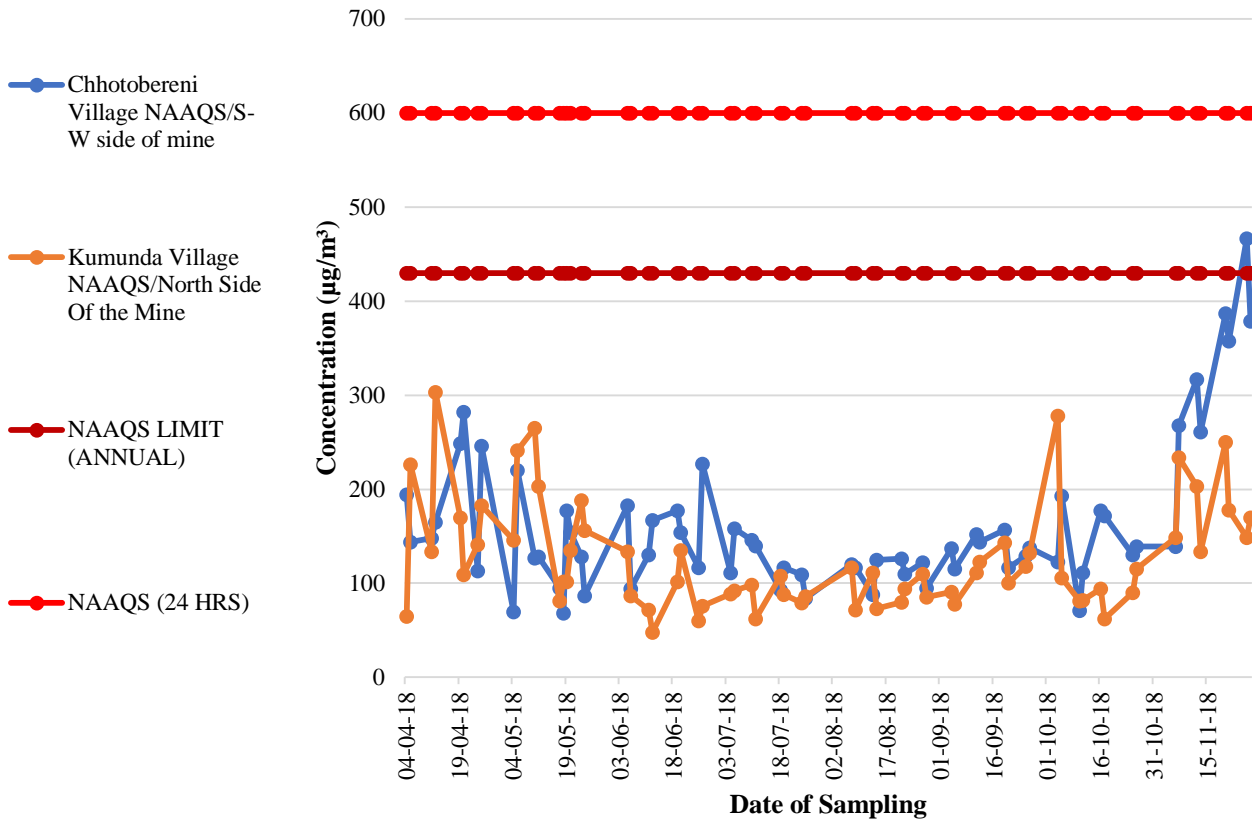


Table:40

Area: Hingula Area
Project: Balram OCP
Monitoring Station: Natada Village NAAQS/South West Of the Mine

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO ₂ | NO _x | SPM |
|------------------|-------|------|-----------------|-----------------|-----|
| 04/04/18 | 28 | 68 | 4.08 | 8.82 | 95 |
| 05/04/18 | 36 | 66 | 4.44 | 9.8 | 146 |
| 11/04/18 | 96 | 343 | 2.65 | 24.92 | 454 |
| 12/04/18 | 43 | 133 | 1.72 | 14.89 | 165 |
| 19/04/18 | 31 | 133 | 0.84 | 16.21 | 428 |
| 20/04/18 | 42 | 152 | 2.34 | 17.24 | 208 |
| 24/04/18 | 39 | 81 | 0.68 | 4.42 | 91 |
| 25/04/18 | 22 | 58 | 1.71 | 3.38 | 92 |
| 04/05/18 | 30 | 58 | 2.26 | 9 | 142 |
| 05/05/18 | 35 | 61 | 1.44 | <6 | 99 |
| 10/05/18 | 20 | 57 | 3.75 | <6 | 103 |
| 11/05/18 | 20 | 68 | 3.34 | 8 | 142 |
| 17/05/18 | 36 | 89 | 3.56 | <6 | 193 |
| 18/05/18 | 37 | 55 | 4.78 | 11 | 158 |
| 19/05/18 | 23 | 104 | 5.56 | <6 | 239 |
| 20/05/18 | 18 | 143 | 1.09 | <6 | 263 |
| 23/05/18 | 18 | 70 | 3.09 | 9 | 132 |
| 24/05/18 | 31 | 54 | 1.96 | <6 | 131 |
| 05/06/18 | 54 | 108 | 2.69 | 7.51 | 162 |
| 06/06/18 | 56 | 159 | 2.15 | 6.53 | 333 |
| 11/06/18 | 12 | 100 | 1.85 | <6 | 127 |
| 12/06/18 | 19 | 195 | 4.71 | 2.98 | 335 |
| 19/06/18 | 23 | 104 | 5.56 | <6 | 239 |
| 20/06/18 | 18 | 143 | 1.09 | <6 | 263 |
| 25/06/18 | 25 | 49 | 0.91 | <6 | 94 |
| 26/06/18 | 55 | 144 | 0.68 | <6 | 211 |
| 04/07/18 | 28 | 58 | 0.64 | <6 | 84 |
| 05/07/18 | 34 | 67 | 1.04 | 9.57 | 128 |
| 10/07/18 | 23 | 48 | 1.36 | <6 | 86 |
| 11/07/18 | 29 | 45 | 0.92 | 7.01 | 75 |
| 18/07/18 | 53 | 95 | 2.68 | <6 | 144 |
| 19/07/18 | 30 | 74 | 2.48 | 6.17 | 106 |
| 24/07/18 | 45 | 85 | 2.68 | <6 | 125 |
| 25/07/18 | 42 | 91 | 2.32 | <6 | 126 |
| 07/08/18 | 35 | 50 | 1.06 | <6 | 69 |
| 08/08/18 | 40 | 53 | 3.38 | 11.98 | 82 |
| 13/08/18 | 20 | 58 | 2.44 | 6.36 | 93 |
| 14/08/18 | 26 | 63 | 1.6 | <6 | 86 |
| 21/08/18 | 35 | 93 | 1.39 | <6 | 117 |

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|----------------|----------------|---------------|
| 22/08/18 | 33 | 88 | 1.62 | <6 | 114 |
| 27/08/18 | 25 | 81 | 1.35 | 11 | 104 |
| 28/08/18 | 23 | 65 | 2.48 | 7.91 | 108 |
| 04/09/18 | 51 | 147 | 4.13 | 7.25 | 186 |
| 05/09/18 | 46 | 117 | 6.58 | 13.78 | 167 |
| 11/09/18 | 45 | 135 | 5.84 | <6 | 157 |
| 12/09/18 | 48 | 115 | 6.27 | <6 | 144 |
| 19/09/18 | 31 | 84 | 1.87 | <6 | 110 |
| 20/09/18 | 23 | 78 | 9.76 | 7.37 | 123 |
| 25/09/18 | 42 | 92 | 3.15 | 8.45 | 114 |
| 26/09/18 | 39 | 97 | 3.42 | 25.98 | 130 |
| 04/10/18 | 76 | 114 | 13.65 | 4.85 | 178 |
| 05/10/18 | 93 | 133 | 13.41 | <6 | 198 |
| 10/10/18 | 53 | 114 | 7.51 | <6 | 147 |
| 11/10/18 | 54 | 95 | 7.66 | <6 | 121 |
| 16/10/18 | 56 | 132 | 6.26 | <6 | 158 |
| 17/10/18 | 59 | 102 | 9.07 | <6 | 137 |
| 25/10/18 | 70 | 212 | 8.33 | 8.38 | 403 |
| 26/10/18 | 71 | 245 | 14.85 | 15.95 | 373 |
| 06/11/18 | 59 | 180 | 10.13 | 17.51 | 276 |
| 07/11/18 | 145 | 178 | 2.84 | <6 | 240 |
| 12/11/18 | 124 | 177 | 7.28 | 10.79 | 279 |
| 13/11/18 | 68 | 110 | 3.24 | 8.16 | 144 |
| 20/11/18 | 38 | 148 | 3.96 | 6.41 | 288 |
| 21/11/18 | 70 | 176 | 11.22 | 22.26 | 239 |
| 26/11/18 | 153 | 195 | 5.9 | 19.99 | 251 |
| 27/11/18 | 140 | 188 | 1.95 | 23.09 | 314 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 153 | 343 | 14.85 | 25.98 | 428 |
| Minimum | 12 | 45 | 0.64 | 2.98 | 69 |
| 95 Percentile | 117 | 195 | 10.9475 | 23.456 | 363.5 |
| 98 Percentile | 143.5 | 235.1 | 13.578 | 25.2168 | 420.5 |
| Average | 46.09 | 110.19 | 4.04 | 11.18 | 175.28 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:41

**Area: Hingula Area
Project: Balram OCP**

Monitoring Station: Solada Village NAAQS/Pump House Near Outsourcing Working Pach & Coal TR

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2 5 | PM10 | SO2 | NOx | SPM |
|-------------------------|--------------|-------------|------------|------------|------------|
| 04/04/18 | 57 | 131 | 4.98 | 10.34 | 187 |
| 05/04/18 | 53 | 187 | 1.84 | 12.91 | 372 |
| 11/04/18 | 53 | 113 | 1.38 | 18.17 | 138 |
| 12/04/18 | 50 | 83 | 2.33 | <6 | 110 |
| 19/04/18 | 26 | 41 | 1.34 | 5.76 | 73 |
| 20/04/18 | 27 | 45 | 2.56 | 4.71 | 65 |
| 24/04/18 | 26 | 46 | 2.08 | 2.3 | 107 |
| 25/04/18 | 42 | 123 | 2.03 | 3.48 | 168 |
| 04/05/18 | 35 | 143 | 0.91 | <6 | 212 |
| 05/05/18 | 31 | 130 | 3.21 | 10 | 262 |
| 10/05/18 | 51 | 96 | 1.62 | <6 | 194 |
| 11/05/18 | 43 | 115 | 5.78 | 8 | 181 |
| 17/05/18 | 17 | 50 | 8.5 | 13 | 114 |
| 18/05/18 | 31 | 119 | 3.47 | 8 | 232 |
| 19/05/18 | 24 | 71 | 2.47 | 10.16 | 113 |
| 20/05/18 | 16 | 63 | 3.61 | 11.55 | 143 |
| 23/05/18 | 27 | 74 | 2.6 | 11 | 137 |
| 24/05/18 | 14 | 31 | 2.4 | <6 | 127 |
| 05/06/18 | 40 | 98 | 5.19 | <6 | 203 |
| 06/06/18 | 40 | 165 | 9.33 | 19.33 | 272 |
| 11/06/18 | 11 | 63 | 1.39 | 6.47 | 156 |
| 12/06/18 | 15 | 31 | 2.14 | <6 | 79 |
| 19/06/18 | 24 | 71 | 2.47 | 10.16 | 113 |
| 20/06/18 | 16 | 63 | 3.61 | 11.55 | 143 |
| 25/06/18 | 21 | 53 | 1.11 | <6 | 115 |
| 26/06/18 | 26 | 58 | 1.08 | <6 | 109 |
| 04/07/18 | 29 | 95 | 0.69 | <6 | 153 |
| 05/07/18 | 33 | 87 | 2.09 | <6 | 127 |
| 10/07/18 | 37 | 80 | 1.45 | 7.01 | 127 |
| 11/07/18 | 34 | 86 | 1.06 | <6 | 125 |
| 18/07/18 | 36 | 83 | 2.27 | <6 | 112 |
| 19/07/18 | 35 | 75 | 3.00 | <6 | 107 |
| 24/07/18 | 40 | 96 | 4.07 | 9.37 | 127 |
| 25/07/18 | 43 | 92 | 2.52 | <6 | 119 |
| 07/08/18 | 19 | 83 | 3.6 | 6.73 | 119 |
| 08/08/18 | 25 | 73 | 2.06 | <6 | 102 |
| 13/08/18 | 26 | 77 | 1.32 | 7.7 | 117 |
| 14/08/18 | 28 | 61 | 6.52 | <6 | 82 |

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|---------------|----------------|---------------|
| 21/08/18 | 19 | 84 | 7.2 | 7.73 | 126 |
| 22/08/18 | 12 | 76 | 2.59 | 7.21 | 111 |
| 27/08/18 | 14 | 73 | 1.72 | 10.1 | 98 |
| 28/08/18 | 28 | 98 | 2.44 | 22.26 | 129 |
| 04/09/18 | 71 | 145 | 5.44 | 8.23 | 183 |
| 05/09/18 | 67 | 98 | 5.58 | <6 | 129 |
| 11/09/18 | 54 | 135 | 5.39 | <6 | 169 |
| 12/09/18 | 53 | 111 | 5.37 | <6 | 145 |
| 19/09/18 | 17 | 85 | 2.14 | <6 | 141 |
| 20/09/18 | 15 | 75 | 8.23 | <6 | 99 |
| 25/09/18 | 21 | 97 | 4.8 | 11.99 | 118 |
| 26/09/18 | 13 | 112 | 11.02 | 8.75 | 139 |
| 04/10/18 | 26 | 160 | 8.03 | <6 | 225 |
| 05/10/18 | 29 | 117 | 9.19 | <6 | 151 |
| 10/10/18 | 24 | 97 | 10.81 | <6 | 123 |
| 11/10/18 | 45 | 87 | 10.59 | <6 | 171 |
| 16/10/18 | 111 | 148 | 12.37 | <6 | 198 |
| 17/10/18 | 42 | 69 | 9.54 | 6.63 | 276 |
| 25/10/18 | 35 | 225 | 16.41 | 6.14 | 391 |
| 26/10/18 | 45 | 105 | 9.29 | <6 | 154 |
| 06/11/18 | 15 | 124 | 4.95 | 9.31 | 226 |
| 07/11/18 | 21 | 214 | 4.94 | 6.95 | 315 |
| 12/11/18 | 70 | 187 | 6.19 | 50.11 | 279 |
| 13/11/18 | 81 | 199 | 2.53 | <6 | 312 |
| 20/11/18 | 10 | 167 | 3.88 | 22.3 | 243 |
| 21/11/18 | 11 | 162 | 1.91 | 11.69 | 218 |
| 26/11/18 | 15 | 196 | 4.87 | 31.82 | 264 |
| 27/11/18 | 17 | 158 | 4.12 | 16.91 | 182 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Average | 33.06 | 103.86 | 4.41 | 11.73 | 164.5 |
| 95 Percentile | 69.25 | 193.75 | 10.755 | 23.728 | 303.75 |
| 98 Percentile | 78 | 209.5 | 11.965 | 36.5754 | 354.9 |
| Maximum | 111 | 225 | 16.41 | 50.11 | 391 |
| Minimum | 10 | 31 | 0.69 | 2.3 | 65 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:42

Area: Hingula Area
Project: Balram OCP
Monitoring Station: On Backfilled Area Near Dozer Shed

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|---------------|---------------|---------------|
| 05/04/18 | 28 | 107 | 1.05 | <6 | 287 |
| 20/04/18 | 53 | 272 | 1.95 | 3.81 | 340 |
| 05/05/18 | 21 | 137 | 0.83 | 6 | 308 |
| 18/05/18 | 26 | 238 | 1.65 | <6 | 382 |
| 21/05/18 | 27 | 214 | 1.09 | <6 | 345 |
| 06/06/18 | 39 | 239 | 4.38 | <6 | 458 |
| 21/06/18 | 27 | 214 | 1.09 | <6 | 345 |
| 05/07/18 | 22 | 158 | 2.85 | 7.19 | 397 |
| 19/07/18 | 34 | 89 | 5.33 | <6 | 130 |
| 10/08/18 | 57 | 112 | 4.11 | 6.25 | 159 |
| 22/08/18 | 37 | 142 | 2.3 | 11.64 | 199 |
| 05/09/18 | 30 | 130 | 6.82 | 8.73 | 136 |
| 20/09/18 | 24 | 101 | 5.46 | 6.43 | 133 |
| 05/10/18 | 43 | 232 | 6.55 | <6 | 836 |
| 22/10/18 | 62 | 215 | 5.65 | <6 | 359 |
| 07/11/18 | 77 | 279 | 5.3 | <6 | 376 |
| 21/11/18 | 59 | 273 | 3.87 | 11.23 | 597 |
| 05/12/18 | 121 | 205 | 15.77 | 11.57 | 233 |
| 20/12/18 | 14 | 79 | 11.33 | 37.83 | 106 |
| 15/01/19 | 148 | 228 | 15.63 | 20.53 | 311 |
| 28/01/19 | 37 | 186 | 25.74 | 17.35 | 225 |
| 12/02/19 | 150 | 286 | 14.74 | 15.39 | 343 |
| 25/02/19 | | | | | |
| 08/03/19 | 153 | 386 | 11.47 | 18.48 | 428 |
| 27/03/19 | 80 | 267 | 11.57 | 11.96 | 361 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| 95 Percentile | 121 | 273 | 15.77 | 28.315 | 597 |
| 98 Percentile | 137.2 | 276.6 | 21.752 | 34.024 | 740.4 |
| Average | 56.04 | 196.60 | 6.73 | 13.03 | 323.17 |
| Maximum | 153 | 386 | 25.74 | 37.83 | 836 |
| Minimum | 14 | 79 | 1.09 | 6.25 | 106 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:43

Area: Hingula Area
Project: Balram OCP
Monitoring Station: Project Office, Balaram OCP

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|---------------|----------------|---------------|
| 05/04/18 | 20 | 209 | 5.55 | 7.93 | 539 |
| 20/04/18 | 57 | 189 | 1.31 | 2.42 | 409 |
| 05/05/18 | 16 | 34 | 1.42 | <6 | 93 |
| 18/05/18 | 10 | 170 | 3.02 | 9 | 691 |
| 21/05/18 | 30 | 138 | 0.8 | <6 | 273 |
| 06/06/18 | 34 | 157 | 1.79 | 6 | 279 |
| 21/06/18 | 30 | 138 | 0.8 | <6 | 273 |
| 05/07/18 | 33 | 200 | 0.77 | <6 | 313 |
| 19/07/18 | 40 | 153 | 2.03 | <6 | 238 |
| 10/08/18 | 33 | 61 | 1.35 | <6 | 102 |
| 22/08/18 | 33 | 110 | 1.82 | 12.13 | 227 |
| 05/09/18 | 49 | 128 | 7.92 | <6 | 169 |
| 20/09/18 | 26 | 109 | 2.64 | 6.64 | 143 |
| 05/10/18 | 30 | 280 | 6.66 | <6 | 292 |
| 22/10/18 | 86 | 133 | 5.65 | <6 | 284 |
| 07/11/18 | 160 | 448 | 10.43 | 43.94 | 620 |
| 21/11/18 | 128 | 161 | 2.21 | 11.96 | 212 |
| 05/12/18 | 147 | 362 | 13.12 | 18.02 | 535 |
| 20/12/18 | 77 | 106 | 28.78 | 53.47 | 153 |
| 15/01/19 | 150 | 272 | 12.54 | 10.47 | 419 |
| 29/01/19 | 107 | 290 | 26.18 | 13.92 | 437 |
| 12/02/19 | 208 | 576 | 10.7 | 29.63 | 593 |
| 25/02/19 | | | | | |
| 08/03/19 | 73 | 115 | 10.33 | 14.65 | 368 |
| 27/03/19 | 36 | 139 | 20.38 | 13.79 | 226 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 208 | 576 | 28.78 | 53.47 | 691 |
| Minimum | 10 | 34 | 0.77 | 2.42 | 93 |
| Average | 67.20 | 194.91 | 7.42 | 16.93 | 328.66 |
| 95 Percentile | 158.5 | 435.1 | 25.31 | 46.799 | 615.95 |
| 98 Percentile | 185.92 | 517.12 | 27.584 | 50.8016 | 658.34 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:44

Area: Hingula Area

Project: Balram OCP

Monitoring Station: Pump House Near Outsourcing Working Pach & Coal TR

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|---------------|--------------|---------------|
| 05/12/18 | 57 | 239 | 18.74 | 16.33 | 323 |
| 20/12/18 | 58 | 124 | 16.44 | 36.4 | 178 |
| 15/01/19 | 119 | 256 | 10.81 | 12.21 | 444 |
| 30/01/19 | 73 | 198 | 11.39 | 18.28 | 295 |
| 12/02/19 | 111 | 439 | 10.93 | 22.46 | 527 |
| 25/02/19 | 104 | 243 | 12.44 | 50.22 | 319 |
| 08/03/19 | 52 | 209 | 10.55 | 12.86 | 310 |
| 27/03/19 | 67 | 215 | 12.41 | 14.1 | 379 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 119 | 439 | 18.74 | 50.22 | 527 |
| Minimum | 52 | 124 | 10.55 | 12.21 | 178 |
| Average | 80.12 | 240.37 | 12.96 | 22.85 | 346.87 |
| 95 Percentile | 116.2 | 374.95 | 17.93 | 45.38 | 497.95 |
| 98 Percentile | 117.88 | 413.38 | 18.418 | 48.28 | 515.38 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

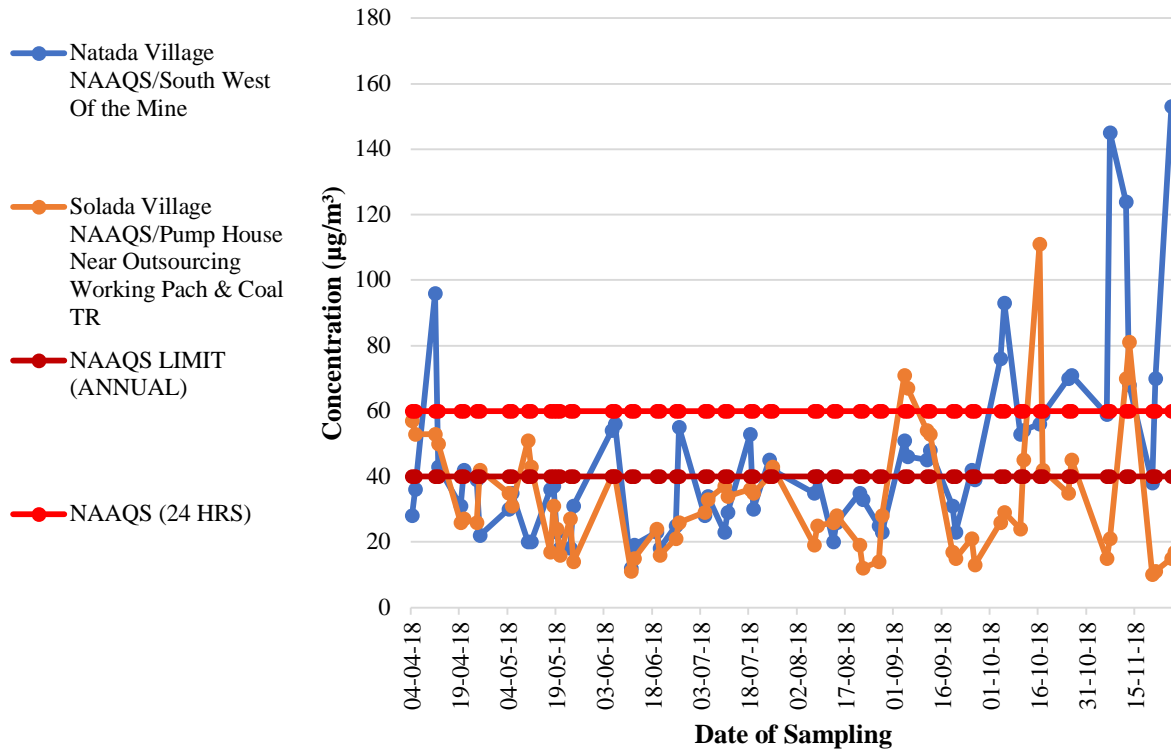
Table:45

Area: Hingula Area
Project: Balram OCP
Monitoring Station: South West of the Mine

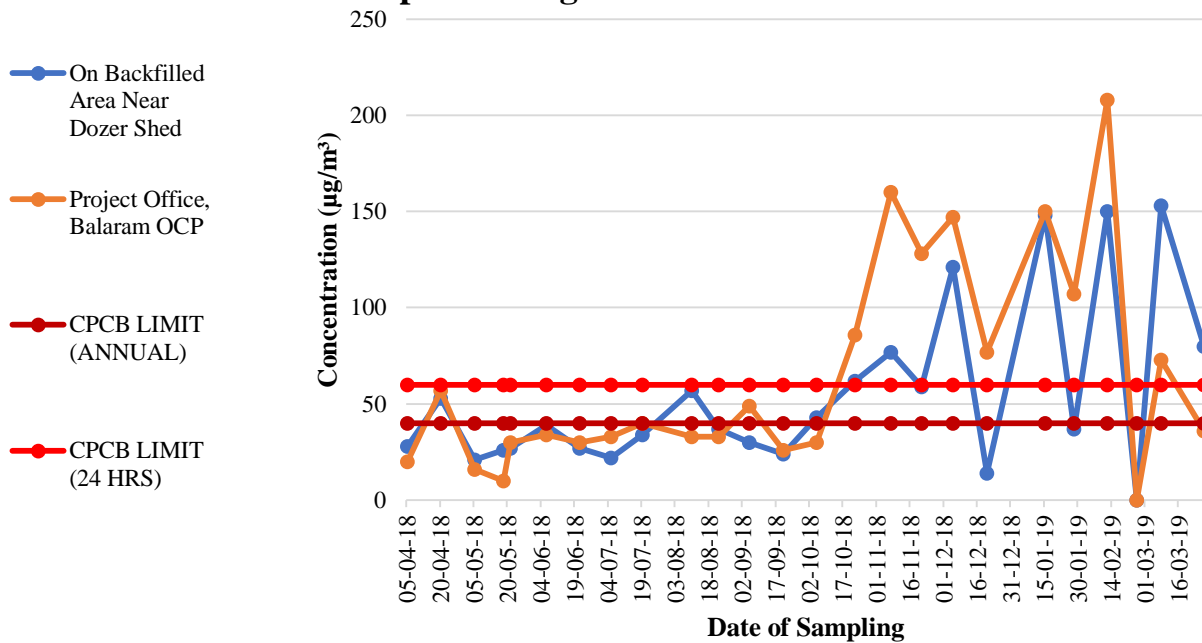
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|---------------|---------------|
| 20/12/18 | 59 | 85 | 9.54 | 34.02 | 137 |
| 15/01/19 | 83 | 228 | 17.23 | 10.49 | 484 |
| 28/01/19 | 22 | 117 | 13.48 | 19.78 | 183 |
| 12/02/19 | 31 | 257 | 15.51 | 19.05 | 287 |
| 25/02/19 | - | - | - | - | - |
| 08/03/19 | 139 | 398 | 11.34 | 14.07 | 475 |
| 27/03/19 | 71 | 189 | 15.71 | 18.02 | 240 |
| 05/12/18 | 98 | 132 | 17.63 | 19.07 | 232 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 139 | 398 | 17.63 | 34.02 | 484 |
| Minimum | 22 | 85 | 9.54 | 10.49 | 137 |
| Average | 71.85 | 200.85 | 14.34 | 19.21 | 291.14 |
| 95 Percentile | 126.7 | 355.7 | 17.51 | 29.748 | 481.3 |
| 98 Percentile | 134.08 | 381.08 | 17.58 | 32.31 | 482.92 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

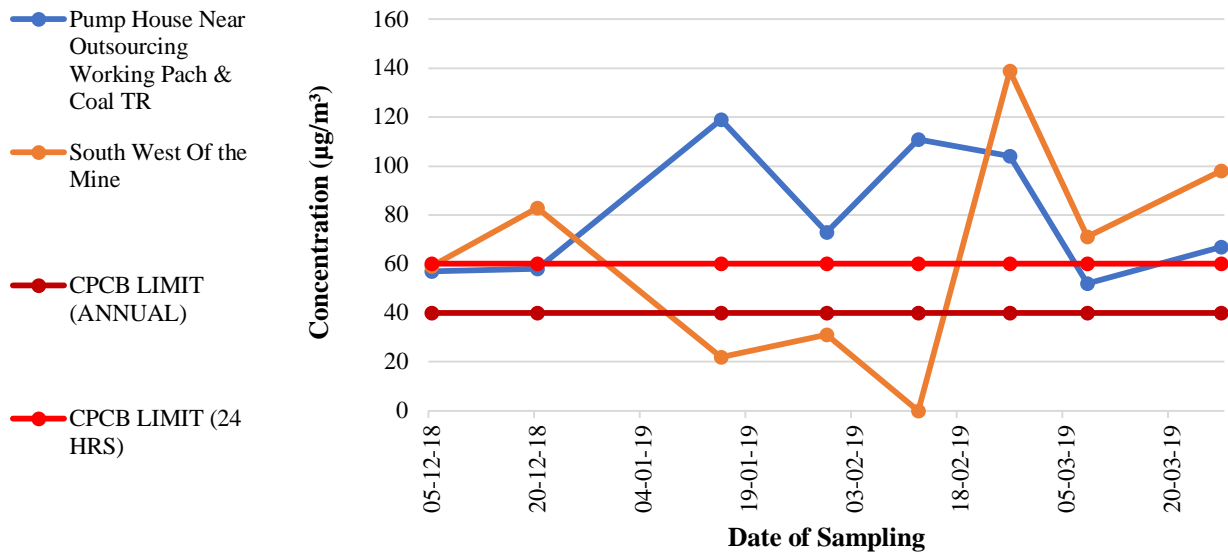
Graph showing PM 2.5 Balram OCP (NAAQS)



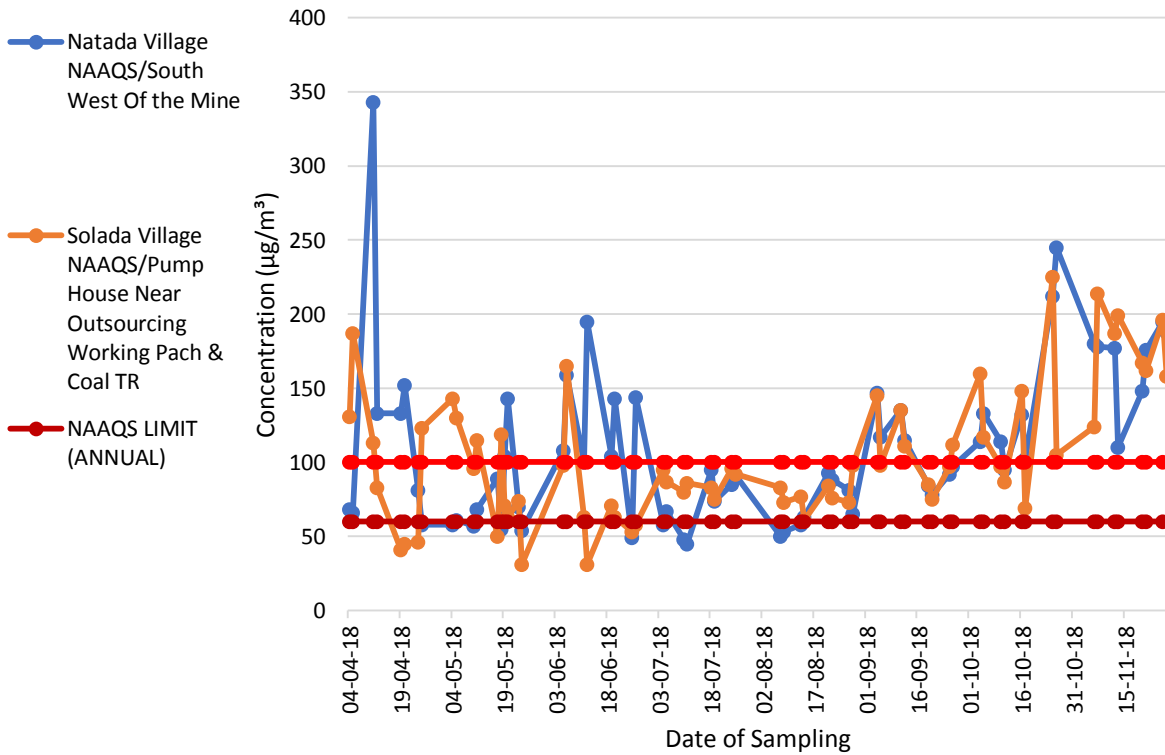
Graph showing PM 2.5 Balram OCP

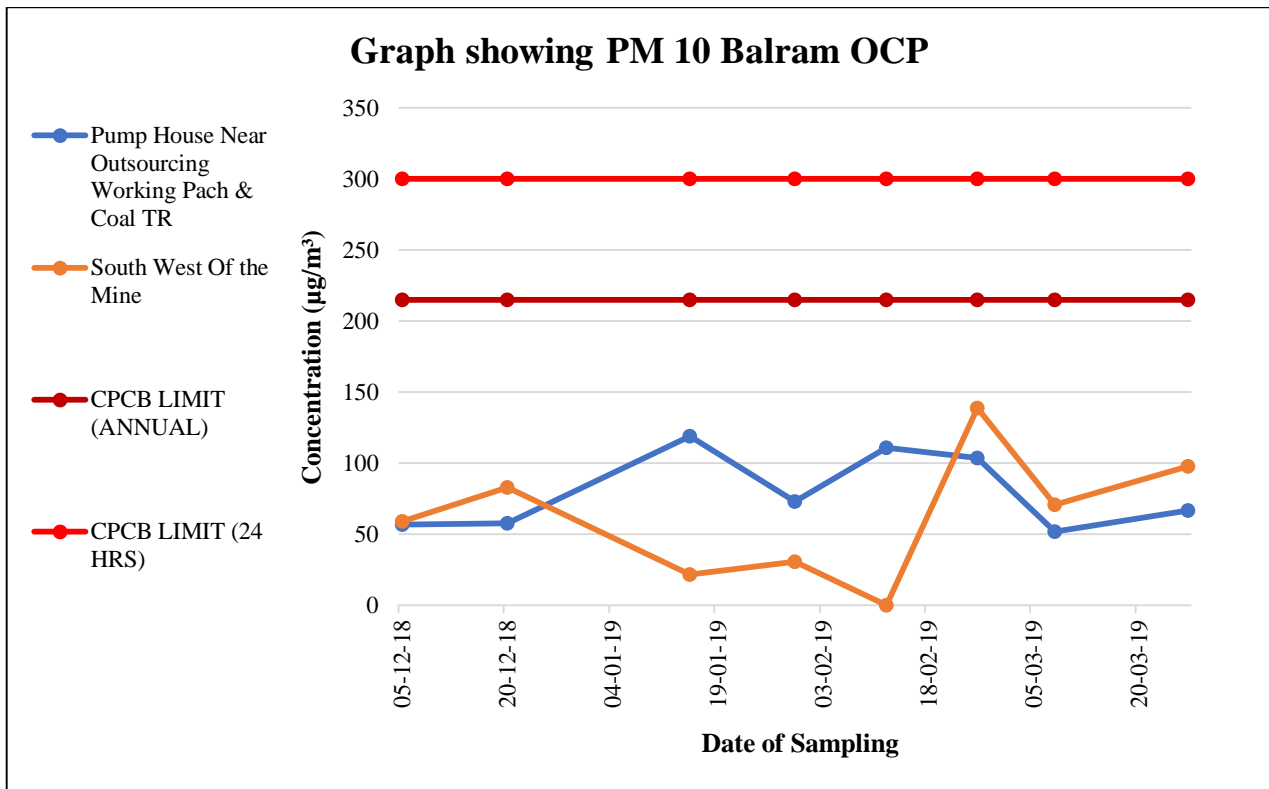
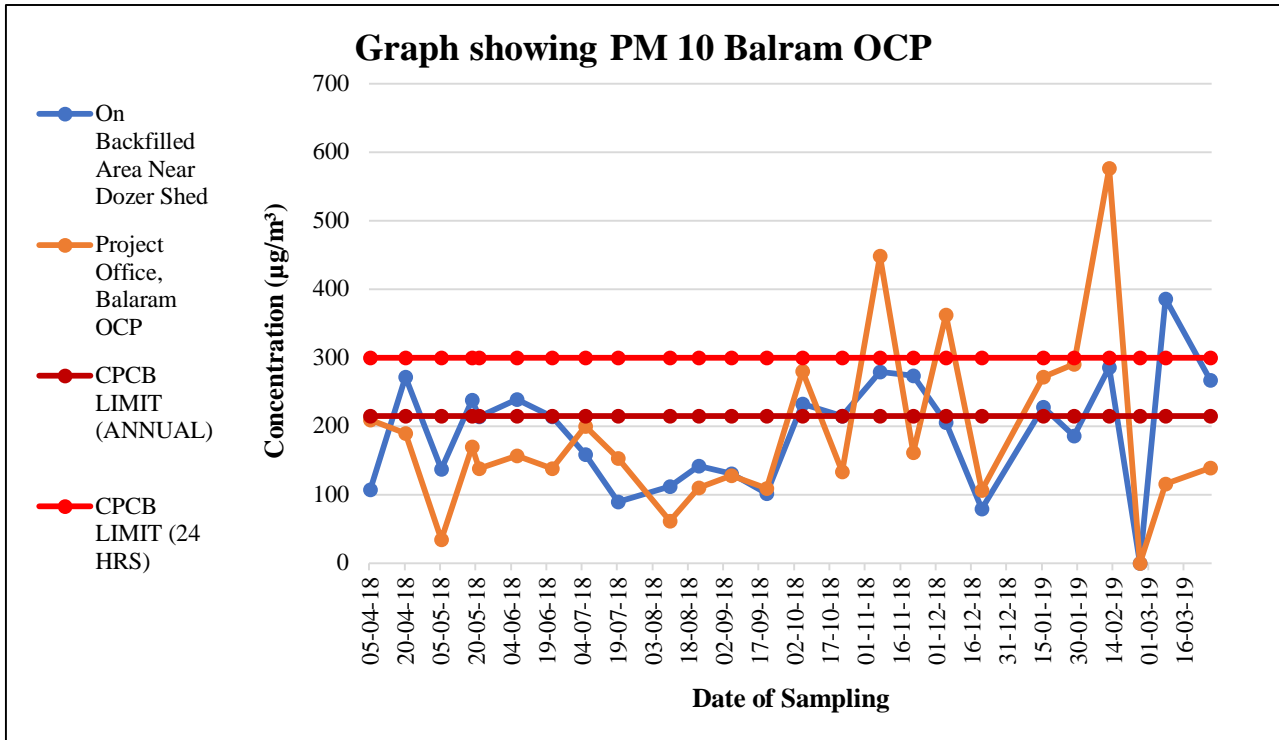


Graph showing PM 2.5 Balram OCP

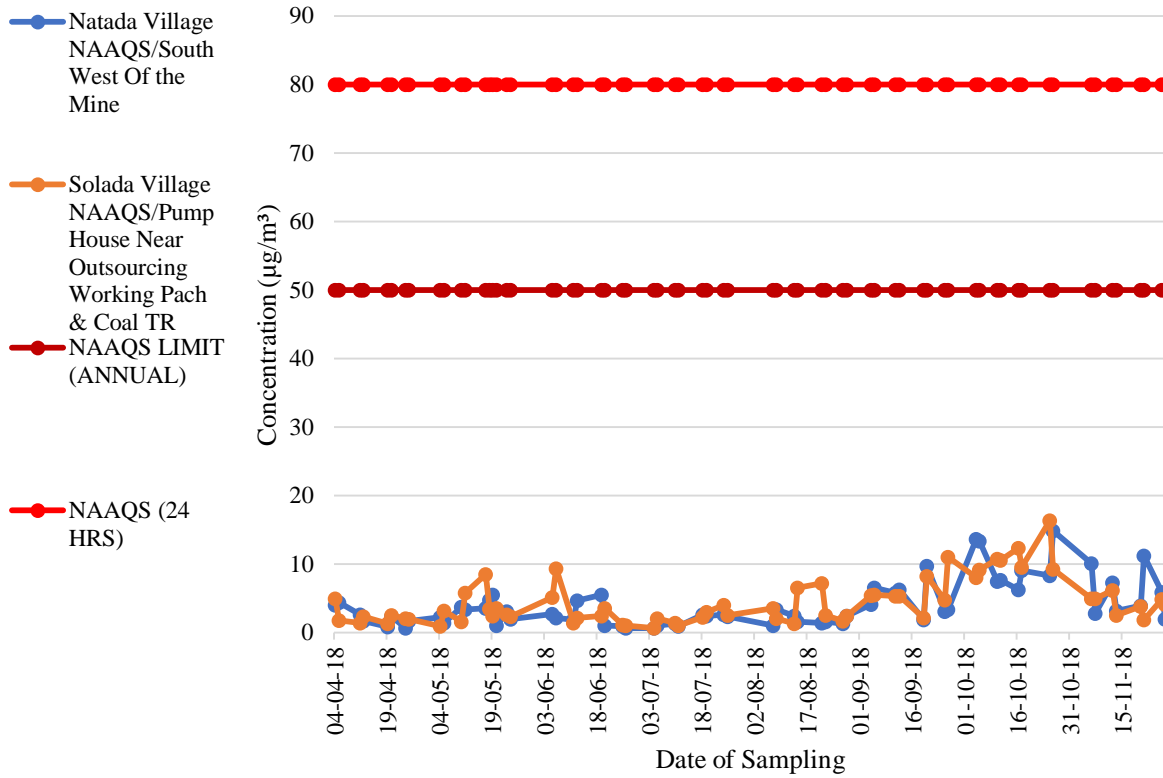


Graph showing PM 10 Balram OCP (NAAQS)

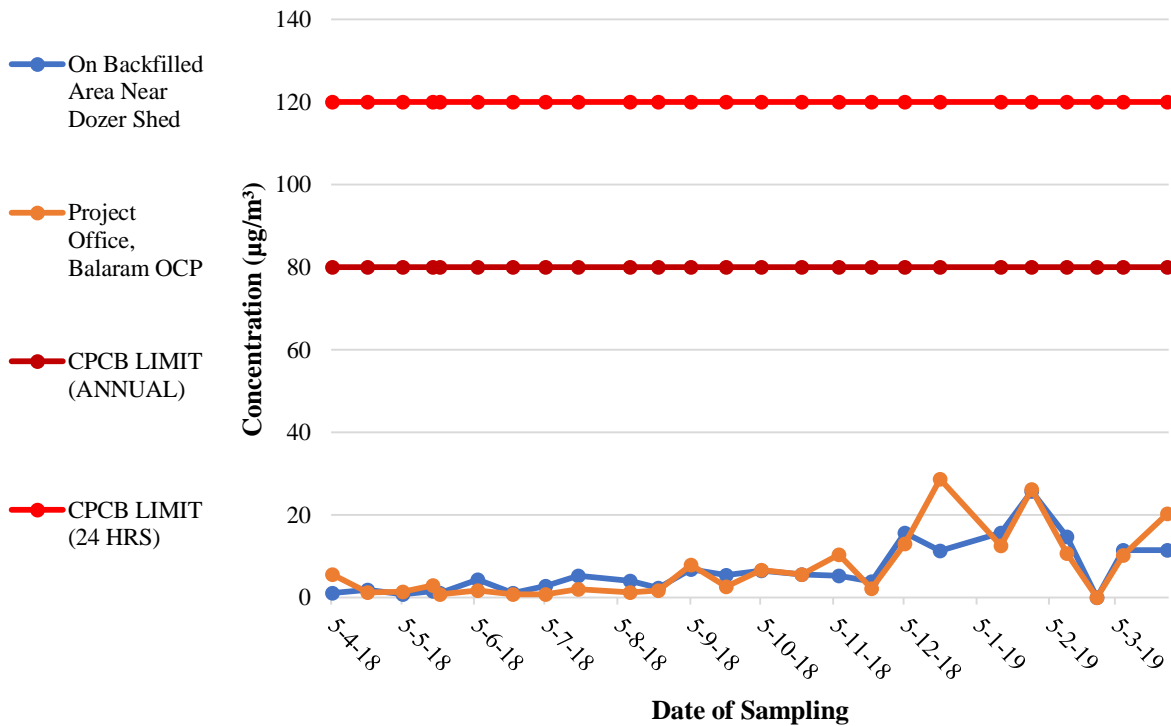


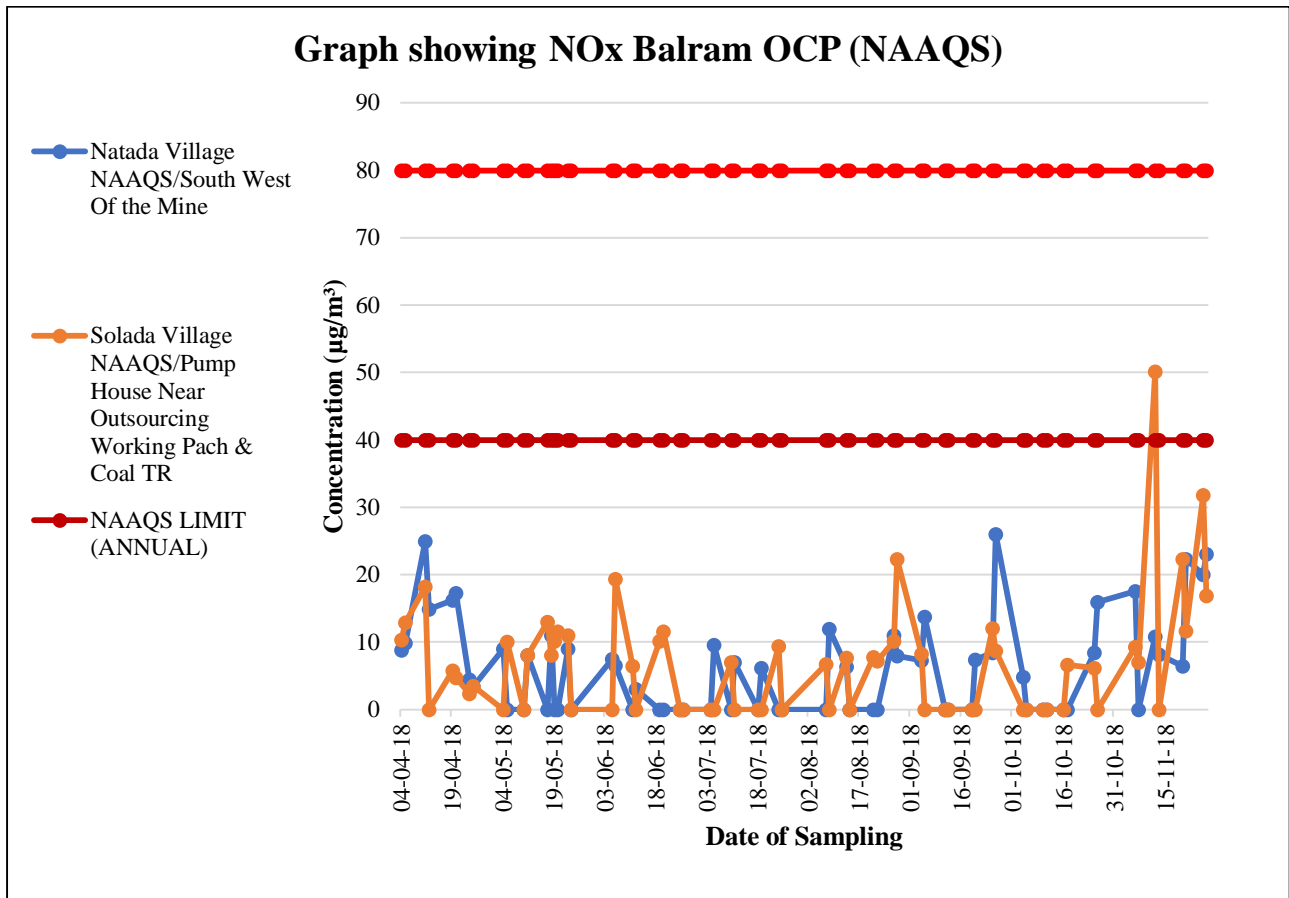
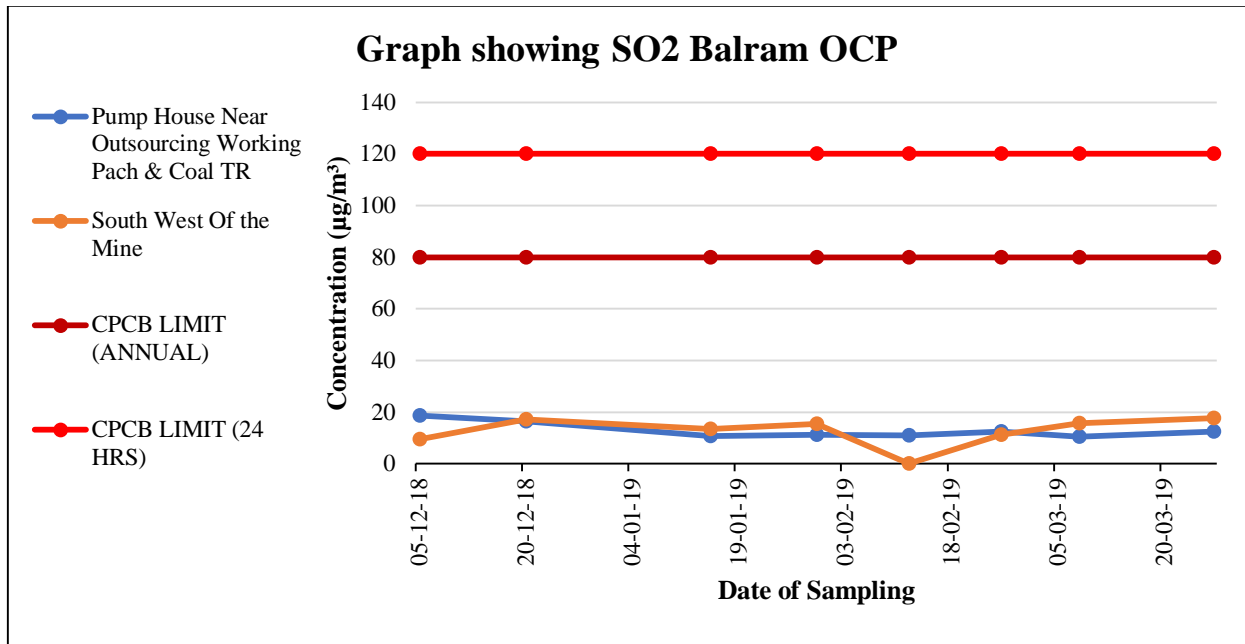


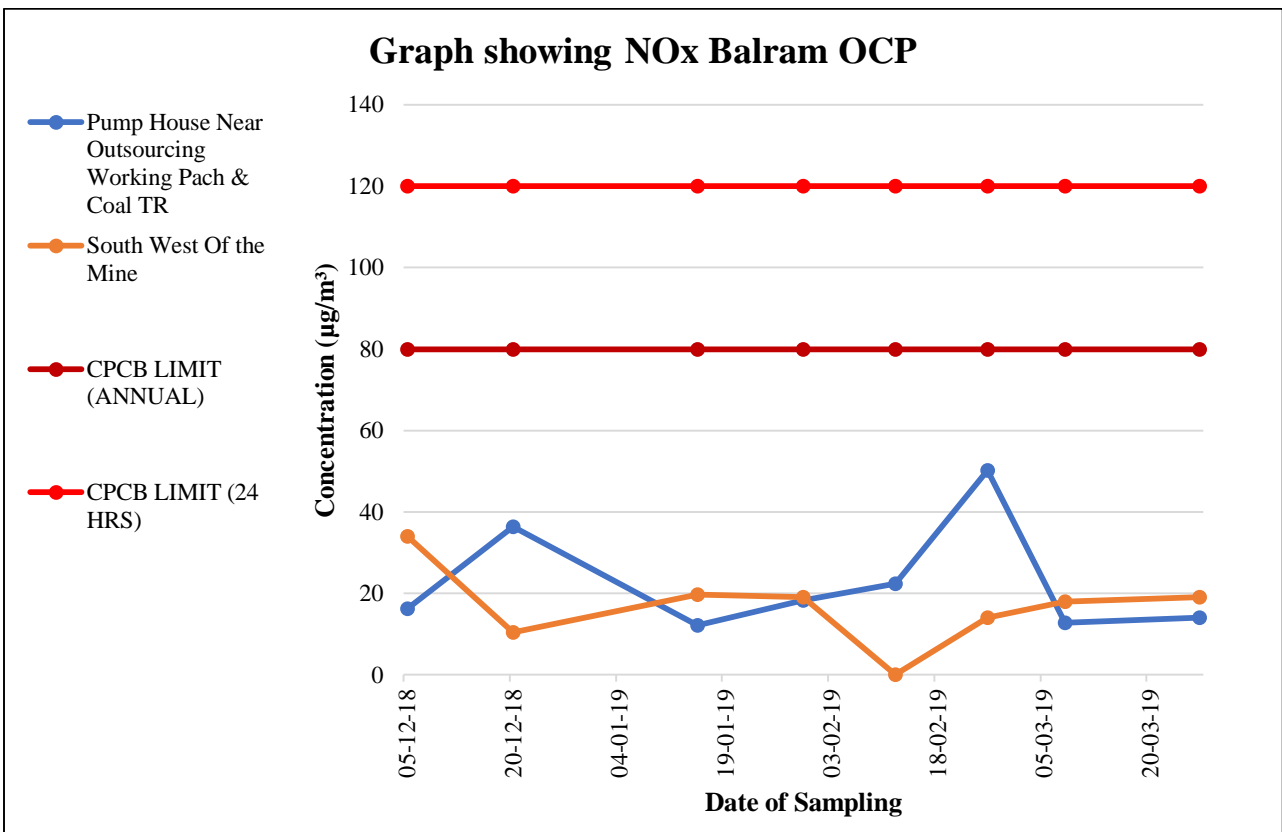
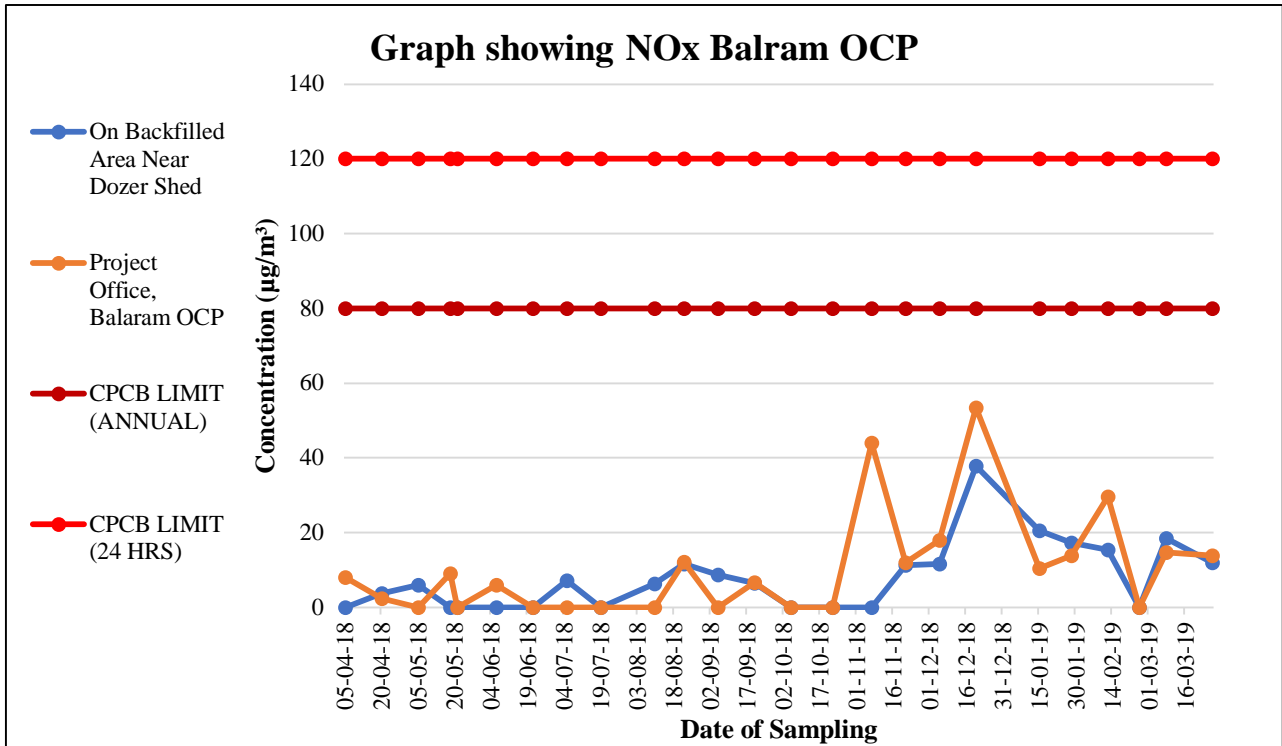
Graph showing SO2 Balram OCP (NAAQS)



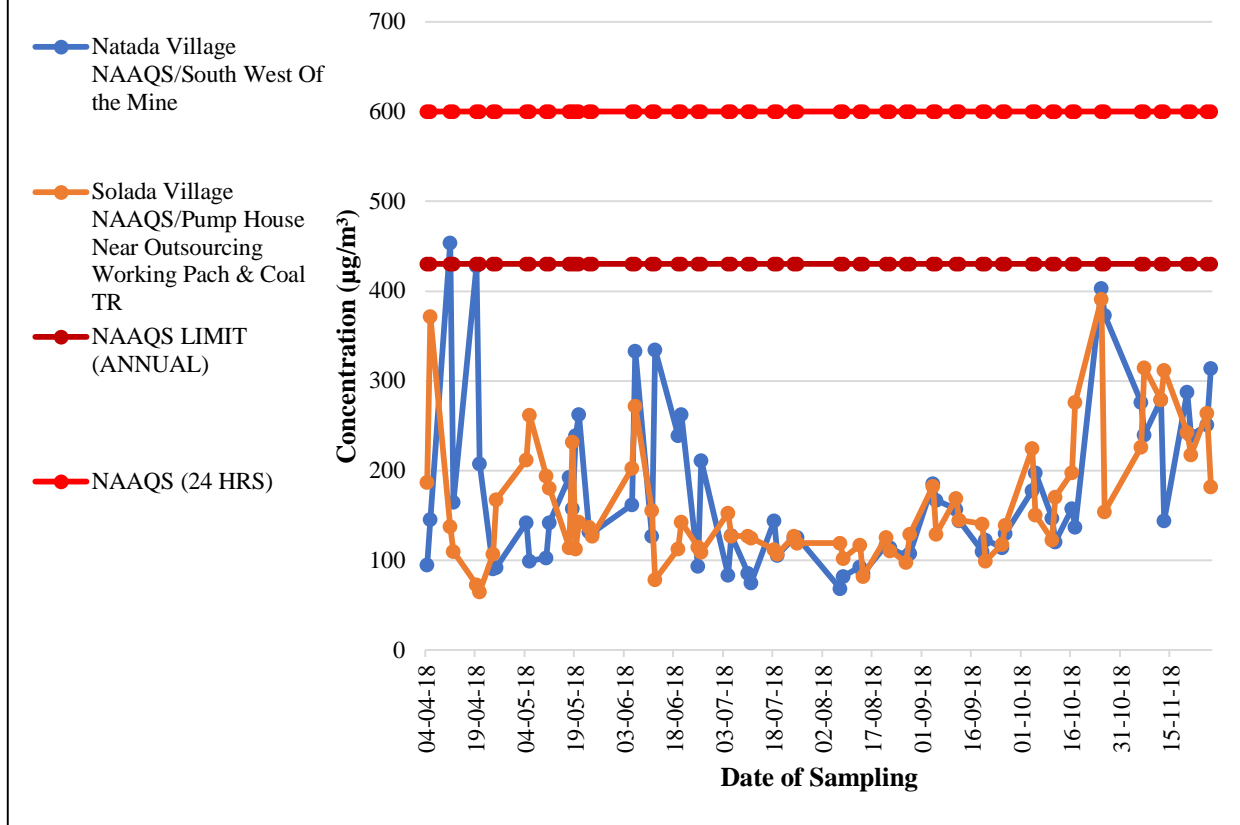
Graph showing SO2 Balram OCP



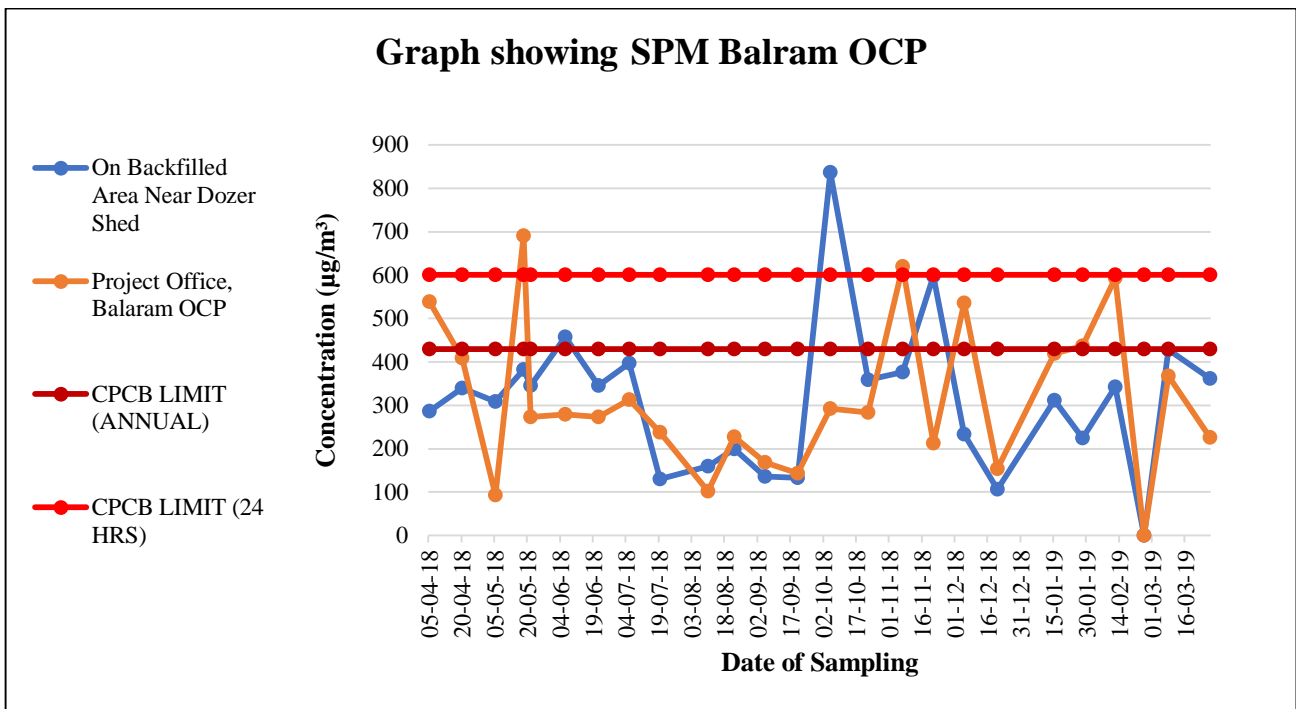




Graph showing SPM Balram OCP (NAAQS)



Graph showing SPM Balram OCP



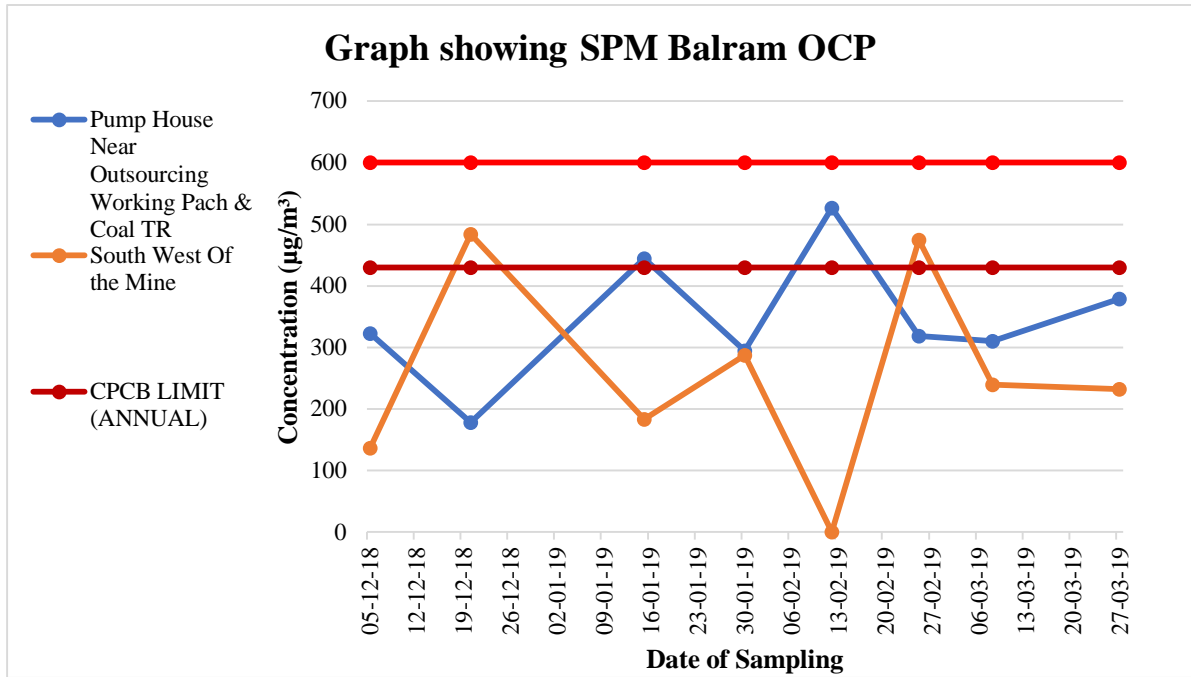


Table:46

**Area: Talcher Area
 Project: Talcher Colliery U/G
 Monitoring Station: GM Office**

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO ₂ | NO _x | SPM |
|--------------------------|---------------|---------------|-----------------------|-----------------------|---------------|
| 10/04/18 | 46 | 90 | 3.38 | <6 | 136 |
| 25/04/18 | 43 | 153 | 1.46 | 3.07 | 199 |
| 09/05/18 | 37 | 352 | 2.44 | 6 | 581 |
| 21/05/18 | 21 | 166 | 1.67 | <6 | 312 |
| 10/06/18 | 26 | 91 | 1.21 | <6 | 213 |
| 24/06/18 | 37 | 58 | 0.8 | <6 | 126 |
| 09/07/18 | 20 | 38 | 2.18 | 7.21 | 69 |
| 24/07/18 | 24 | 91 | 2.25 | <6 | 138 |
| 12/08/18 | 19 | 83 | 1.85 | 6.73 | 118 |
| 26/08/18 | 31 | 92 | 4.19 | 21.19 | 136 |
| 09/09/18 | 47 | 122 | 5.18 | 8.42 | 161 |
| 24/09/18 | 22 | 119 | 9.37 | <6 | 169 |
| 09/10/18 | 45 | 186 | 10.19 | <6 | 569 |
| 25/10/18 | 38 | 326 | 7.71 | 8.53 | 360 |
| 11/11/18 | 116 | 212 | 2.11 | 20.93 | 283 |
| 25/11/18 | 112 | 199 | 2.64 | 11.56 | 304 |
| 13/12/18 | 78 | 137 | 27.45 | 14.42 | 229 |
| 27/12/18 | 11 | 157 | 35.1 | 13.07 | 203 |
| 15/01/19 | 164 | 347 | 12.1 | 23.16 | 410 |
| 29/01/19 | 80 | 275 | 15.89 | 24.55 | 296 |
| 08/02/19 | 50 | 96 | 12.57 | 22.14 | 117 |
| 23/02/19 | 17 | 107 | 10.07 | 63.61 | 169 |
| 13/03/19 | 89 | 153 | 11.45 | 53.4 | 227 |
| 29/03/19 | 129 | 315 | 27.69 | 30.68 | 576 |
| Brief Statistics | PM2.5 | PM10 | SO₂ | NO_x | SPM |
| Maximum | 164 | 352 | 35.1 | 63.61 | 581 |
| Minimum | 11 | 38 | 0.8 | 3.07 | 69 |
| Average | 54.25 | 165.20 | 8.78 | 19.92 | 254.20 |
| 95 Percentile | 127.05 | 343.85 | 27.654 | 55.442 | 574.95 |
| 98 Percentile | 147.9 | 349.7 | 31.69 | 60.34 | 578.70 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:47

**Area: Talcher Area
 Project: Talcher Colliery U/G
 Monitoring Station: Near Canteen Talcher Colliery**

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 13/04/18 | 22 | 155 | 2.46 | <6 | 457 |
| 24/04/18 | 48 | 407 | 2.27 | 2.35 | 784 |
| 09/05/18 | 16 | 154 | 1.09 | <6 | 214 |
| 22/05/18 | 13 | 57 | 2.4 | <6 | 136 |
| 10/06/18 | 11 | 107 | 1.67 | 4.12 | 262 |
| 24/06/18 | 12 | 64 | 0.41 | <6 | 154 |
| 09/07/18 | 20 | 54 | 1.8 | <6 | 96 |
| 24/07/18 | 52 | 156 | 5.28 | <6 | 263 |
| 12/08/18 | 11 | 66 | 4.2 | <6 | 94 |
| 26/08/18 | 33 | 145 | 5.38 | 19.41 | 206 |
| 09/09/18 | 67 | 191 | 3.34 | <6 | 243 |
| 24/09/18 | 24 | 97 | 3.48 | 9.9 | 137 |
| 09/10/18 | 26 | 243 | 1.16 | <6 | 286 |
| 25/10/18 | 115 | 218 | 3.07 | <6 | 231 |
| 11/11/18 | 55 | 388 | 12.77 | 19.6 | 550 |
| 25/11/18 | 36 | 274 | 3.88 | 13.48 | 492 |
| 13/12/18 | 24 | 104 | 25.39 | 25.54 | 160 |
| 27/12/18 | 172 | 330 | 28.8 | 54.99 | 493 |
| 16/01/19 | 161 | 295 | 10.79 | 19.76 | 400 |
| 29/01/19 | 136 | 298 | 10.8 | 16.18 | 310 |
| 08/02/19 | 98 | 129 | 11.23 | 24.74 | 172 |
| 23/02/19 | 74 | 117 | 11.99 | 49.81 | 194 |
| 13/03/19 | 58 | 158 | 11.64 | 44.15 | 306 |
| 29/03/19 | 56 | 274 | 14.75 | 37.35 | 346 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 172 | 407 | 28.8 | 54.99 | 784 |
| Minimum | 11 | 54 | 0.41 | 2.35 | 94 |
| Average | 55.83 | 186.70 | 7.50 | 24.38 | 291.08 |
| 95 Percentile | 157.25 | 379.30 | 23.79 | 51.62 | 541.45 |
| 98 Percentile | 166.94 | 398.26 | 27.23 | 53.64 | 676.36 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:48

Area: Talcher Area
Project: Mandapal Sand Mine
Monitoring Station: Near Mandapal hospital

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 13/04/18 | 31 | 54 | 2.67 | 13.41 | 146 |
| 26/04/18 | 77 | 54 | 1.62 | 1.75 | 81 |
| 10/05/18 | 29 | 73 | 1.27 | <6 | 103 |
| 25/05/18 | 21 | 67 | 5.57 | 16 | 115 |
| 11/06/18 | 34 | 73 | 1.75 | <6 | 158 |
| 25/06/18 | 33 | 71 | 1.89 | <6 | 173 |
| 10/07/18 | 12 | 284 | 1.21 | 6.78 | 371 |
| 23/07/18 | 24 | 91 | 3.77 | 6.09 | 208 |
| 12/08/18 | 10 | 82 | 8.2 | 18.51 | 121 |
| 27/08/18 | 18 | 83 | 3.66 | 14.61 | 132 |
| 11/09/18 | 44 | 83 | 12.16 | 12.52 | 126 |
| 25/09/18 | 17 | 83 | 7.74 | 14.18 | 105 |
| 10/10/18 | 14 | 44 | 3.99 | 9.14 | 80 |
| 27/10/18 | 42 | 185 | 8.32 | 11.11 | 281 |
| 12/11/18 | 29 | 80 | 5.57 | 10.89 | 212 |
| 26/11/18 | 126 | 201 | 4.03 | 13.79 | 341 |
| 13/12/18 | 190 | 397 | 35.11 | 10.76 | 582 |
| 27/12/18 | 160 | 204 | 12.05 | 43.75 | 319 |
| 16/01/19 | 70 | 109 | 34.54 | 33.61 | 155 |
| 30/01/19 | 86 | 289 | 15.29 | 11.03 | 501 |
| 08/02/19 | 121 | 153 | 20.53 | 21.93 | 179 |
| 26/02/19 | 15 | 81 | 13.05 | 23.39 | 168 |
| 14/03/19 | 35 | 102 | 11.02 | 13.47 | 181 |
| 30/03/19 | 117 | 173 | 16.36 | 14.03 | 205 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 190 | 397 | 35.11 | 43.75 | 582 |
| Minimum | 10 | 44 | 1.21 | 1.75 | 80 |
| Average | 56.45 | 129.83 | 9.64 | 15.27 | 210.12 |
| 95 Percentile | 154.90 | 288.25 | 32.43 | 33.61 | 481.5 |
| 98 Percentile | 176.2 | 347.32 | 34.84 | 39.69 | 544.74 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:49

Area: Talcher Area
Project: Nandira Colliery U/G
Monitoring Station: Project Office

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|--------------|---------------|--------------|--------------|---------------|
| 10/04/18 | 26 | 44 | 1.91 | 6.48 | 62 |
| 24/04/18 | 43 | 416 | 1.19 | 1.75 | 540 |
| 09/05/18 | 29 | 206 | 3.12 | <6 | 345 |
| 23/05/18 | 16 | 43 | 1.04 | 18 | 75 |
| 10/06/18 | 24 | 81 | 1.95 | <6 | 203 |
| 24/06/18 | 25 | 61 | 0.53 | <6 | 92 |
| 09/07/18 | 15 | 98 | 1.1 | <6 | 159 |
| 23/07/18 | 11 | 43 | 5.74 | 8.51 | 66 |
| 12/08/18 | 16 | 41 | 2.71 | <6 | 57 |
| 26/08/18 | 27 | 77 | 5.19 | 7.37 | 124 |
| 09/09/18 | 50 | 147 | 9.61 | 7.86 | 180 |
| 24/09/18 | 55 | 112 | 3.66 | <6 | 138 |
| 09/10/18 | 33 | 60 | 1.37 | <6 | 166 |
| 26/10/18 | 53 | 109 | 2.86 | 19.79 | 132 |
| 11/11/18 | 69 | 162 | 2.14 | <6 | 228 |
| 25/11/18 | 49 | 92 | 5.21 | 20.72 | 184 |
| 11/12/18 | 55 | 230 | 20.81 | 12.31 | 253 |
| 25/12/18 | 96 | 245 | 8.91 | 43.93 | 296 |
| 13/01/19 | 91 | 165 | 16.19 | 21.03 | 256 |
| 30/01/19 | 16 | 114 | 13.68 | 10.67 | 152 |
| 09/02/19 | 56 | 176 | 13.43 | 42.77 | 237 |
| 23/02/19 | 16 | 175 | 10.9 | 34.09 | 221 |
| 13/03/19 | 55 | 124 | 11.42 | 30.92 | 164 |
| 29/03/19 | 84 | 150 | 11.47 | 13.75 | 214 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 96 | 416 | 20.81 | 43.93 | 540 |
| Minimum | 11 | 41 | 0.53 | 1.75 | 57 |
| Average | 42.08 | 132.12 | 6.50 | 18.74 | 189.33 |
| 95 Percentile | 89.95 | 242.75 | 15.81 | 43.06 | 337.65 |
| 98 Percentile | 93.7 | 337.34 | 18.68 | 43.58 | 450.30 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:50

Area: Talcher Area
Project: Nandira Colliery U/G
Monitoring Station: Sub Station

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|----------------|--------------|---------------|
| 10/04/18 | 28 | 97 | 1.85 | <6 | 163 |
| 24/04/18 | 23 | 173 | 1.56 | 2.25 | 334 |
| 09/05/18 | 26 | 105 | 8.81 | <6 | 200 |
| 23/05/18 | 12 | 41 | 2.28 | 9 | 71 |
| 10/06/18 | 12 | 48 | 1.32 | <6 | 88 |
| 24/06/18 | 31 | 78 | 0.69 | <6 | 98 |
| 09/07/18 | 12 | 61 | 0.4 | <6 | 171 |
| 23/07/18 | 25 | 73 | 3.12 | <6 | 110 |
| 12/08/18 | 17 | 37 | 1.43 | 6.13 | 51 |
| 26/08/18 | 11 | 48 | 4.07 | 9.46 | 65 |
| 10/09/18 | 54 | 112 | 2.34 | <6 | 140 |
| 24/09/18 | 46 | 109 | 2.31 | <6 | 138 |
| 09/10/18 | 19 | 83 | 1.57 | <6 | 117 |
| 27/10/18 | 77 | 98 | 5.81 | 12.01 | 120 |
| 11/11/18 | 48 | 83 | 3.04 | <6 | 133 |
| 25/11/18 | 92 | 267 | 4.33 | 26.35 | 361 |
| 11/12/18 | 102 | 159 | 23.03 | 10.82 | 197 |
| 25/12/18 | 25 | 96 | 12.94 | 34.65 | 126 |
| 16/01/19 | 157 | 400 | 10.56 | 43.52 | 632 |
| 30/01/19 | 55 | 88 | 12.24 | 16.05 | 113 |
| 09/02/19 | 115 | 185 | 10.5 | 28.19 | 219 |
| 23/02/19 | 24 | 233 | 12.35 | 29.28 | 271 |
| 13/03/19 | 57 | 102 | 10.34 | 23.32 | 131 |
| 29/03/19 | | 161 | 14.76 | 17.75 | 263 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 157 | 400 | 23.03 | 43.52 | 632 |
| Minimum | 11 | 37 | 0.4 | 2.25 | 51 |
| Average | 46.43 | 122.37 | 6.31875 | 19.19 | 179.66 |
| 95 Percentile | 113.7 | 261.90 | 14.487 | 37.75 | 356.95 |
| 98 Percentile | 138.52 | 338.82 | 19.22 | 41.21 | 507.34 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:51

Area: Talcher Area
Project: Deulbera Colliery U/G
Monitoring Station: Project Office

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|---------------|---------------|
| 13/04/18 | 37 | 105 | 3.2 | 10.41 | 152 |
| 24/04/18 | 78 | 74 | 2.5 | 10.56 | 98 |
| 09/05/18 | 20 | 184 | 8.83 | <6 | 372 |
| 25/05/18 | 26 | 89 | 2.08 | 9 | 259 |
| 13/06/18 | 41 | 217 | 2.17 | <6 | 364 |
| 27/06/18 | 33 | 288 | 0.66 | <6 | 448 |
| 12/07/18 | 24 | 63 | 1.65 | <6 | 105 |
| 26/07/18 | 28 | 103 | 3.32 | <6 | 169 |
| 11/08/18 | 24 | 116 | 3.46 | <6 | 160 |
| 29/08/18 | 41 | 110 | 8.34 | 7.98 | 158 |
| 13/09/18 | 98 | 216 | 2.46 | <6 | 279 |
| 27/09/18 | 76 | 181 | 2.3 | <6 | 228 |
| 12/10/18 | 34 | 82 | 3.06 | <6 | 111 |
| 28/10/18 | 74 | 350 | 2.73 | 8.46 | 367 |
| 14/11/18 | 160 | 310 | 1.98 | <6 | 426 |
| 28/11/18 | 183 | 388 | 4.38 | 23.55 | 568 |
| 14/12/18 | 221 | 381 | 16.44 | 30.51 | 519 |
| 27/12/18 | 72 | 240 | 16.5 | 22.28 | 380 |
| 16/01/19 | 150 | 235 | 13.55 | 15.43 | 404 |
| 09/02/19 | 163 | 256 | 11.47 | 32.34 | 362 |
| 26/02/19 | 29 | 68 | 15.4 | 27.54 | 178 |
| 14/03/19 | 58 | 103 | 12.13 | 14.34 | 166 |
| 30/03/19 | 31 | 251 | 10.44 | 13.11 | 312 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 221 | 388 | 16.5 | 32.34 | 568 |
| Minimum | 20 | 63 | 0.66 | 7.98 | 98 |
| Average | 73.95 | 191.73 | 6.48 | 17.34 | 286.30 |
| 95 Percentile | 181 | 377.9 | 16.33 | 31.242 | 511.9 |
| 98 Percentile | 204.28 | 384.92 | 16.47 | 31.90 | 546.44 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

Table:52

Area: Talcher Area
Project: Deulbera Colliery U/G
Monitoring Station: Sub Station

All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 10/04/18 | 17 | 196 | 1 | <6 | 303 |
| 26/04/18 | 92 | 199 | 4.71 | 1 | 233 |
| 09/05/18 | 39 | 185 | 2.05 | <6 | 389 |
| 25/05/18 | 23 | 158 | 9.25 | 16 | 406 |
| 13/06/18 | 23 | 204 | 3.21 | <6 | 288 |
| 27/06/18 | 25 | 61 | 0.54 | 6.4 | 115 |
| 12/07/18 | 18 | 56 | 1.83 | <6 | 97 |
| 26/07/18 | 15 | 124 | 15.37 | <6 | 203 |
| 11/08/18 | -- | 89 | 15.35 | 7.41 | 172 |
| 29/08/18 | 74 | 132 | 8.66 | 11.95 | 195 |
| 13/09/18 | 15 | 158 | 8.22 | 6.28 | 280 |
| 27/09/18 | 53 | 120 | 8.53 | 9.05 | 157 |
| 12/10/18 | 38 | 62 | 4.92 | <6 | 72 |
| 28/10/18 | 78 | 427 | 3.78 | 13.83 | 437 |
| 15/11/18 | 138 | 346 | 1.71 | <6 | 643 |
| 28/11/18 | 15 | 420 | 4.07 | 45.16 | 650 |
| 14/12/18 | 211 | 393 | 19.9 | 17.44 | 498 |
| 27/12/18 | 144 | 357 | 28.93 | 44.54 | 479 |
| 14/01/19 | 119 | 251 | 20.39 | 18.01 | 315 |
| 09/02/19 | 194 | 330 | 12.99 | 15.95 | 346 |
| 26/02/19 | 34 | 446 | 16.52 | 37.16 | 641 |
| 14/03/19 | 59 | 93 | 14.19 | 10.78 | 129 |
| 30/03/19 | 65 | 392 | 20.19 | 21.69 | 538 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 211 | 446 | 28.93 | 45.16 | 650 |
| Minimum | 15 | 56 | 0.54 | 1 | 72 |
| Average | 67.68 | 226.04 | 9.83 | 17.66 | 329.82 |
| 95 Percentile | 191.5 | 426.3 | 20.37 | 44.69 | 642.80 |
| 98 Percentile | 203.86 | 437.64 | 25.17 | 44.97 | 646.92 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

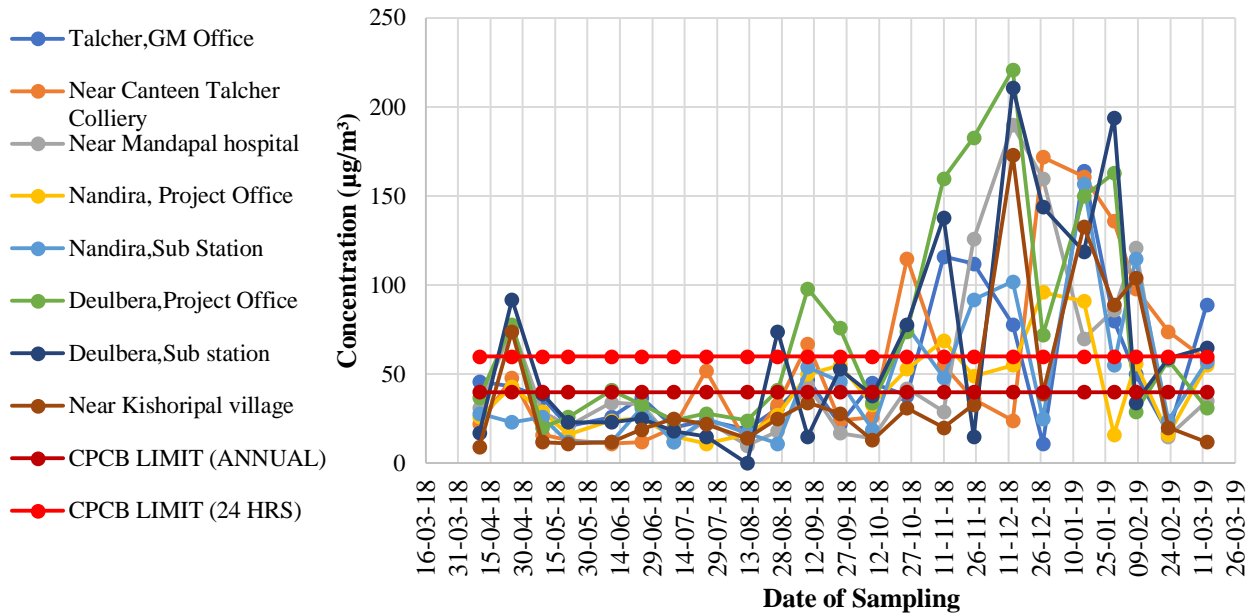
Table:53

Area: Talcher Area
Project: Kakudi & Kishoripal Sand mine
Monitoring Station: Near Kishoripal village

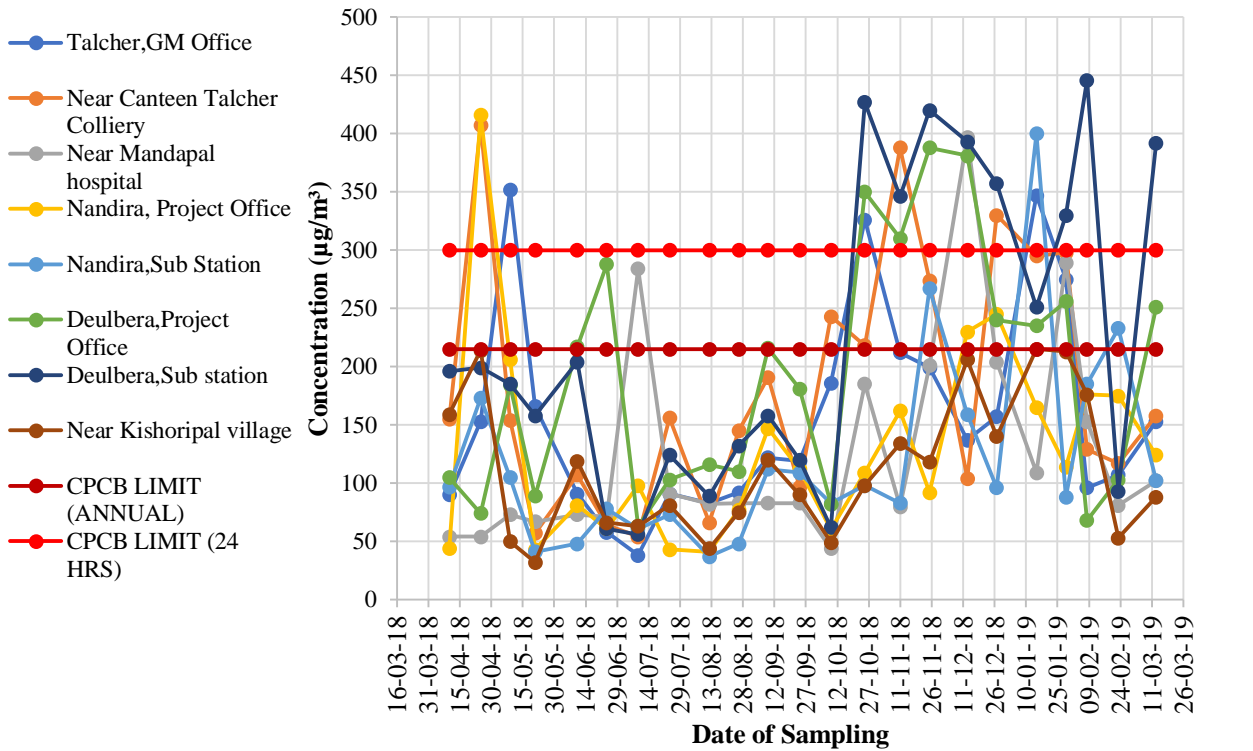
All values in $\mu\text{g}/\text{m}^3$

| Date of Sampling | PM2.5 | PM10 | SO2 | NOx | SPM |
|--------------------------|---------------|---------------|--------------|--------------|---------------|
| 13/04/18 | 9 | 159 | 1.14 | <6 | 323 |
| 26/04/18 | 74 | 214 | 1.7 | 4.89 | 239 |
| 09/05/18 | 12 | 50 | 8.26 | 8 | 183 |
| 25/05/18 | 11 | 32 | 5.62 | <6 | 69 |
| 11/06/18 | 12 | 119 | 0.83 | <6 | 283 |
| 25/06/18 | 19 | 66 | 0.37 | <6 | 114 |
| 10/07/18 | 25 | 63 | 1.27 | <6 | 121 |
| 23/07/18 | 22 | 81 | 3.34 | 8.53 | 118 |
| 12/08/18 | 14 | 44 | 1.13 | <6 | 73 |
| 27/08/18 | 25 | 75 | 4.22 | 25.57 | 106 |
| 11/09/18 | 34 | 120 | 4.19 | <6 | 151 |
| 25/09/18 | 28 | 90 | 3.92 | 17.56 | 122 |
| 10/10/18 | 13 | 49 | 2.38 | <6 | 75 |
| 27/10/18 | 31 | 98 | 4.01 | <6 | 185 |
| 12/11/18 | 20 | 134 | 10.59 | <6 | 158 |
| 26/11/18 | 33 | 118 | 2.81 | 22.5 | 176 |
| 13/12/18 | 173 | 206 | 19.98 | 15.65 | 266 |
| 27/12/18 | 39 | 140 | 25.17 | 41.88 | 237 |
| 14/01/19 | 133 | 215 | 23.67 | 35.69 | 267 |
| 30/01/19 | 89 | 213 | 14.46 | 11.42 | 325 |
| 08/02/19 | 104 | 176 | 19.69 | 26.69 | 216 |
| 27/02/19 | 20 | 53 | 23.86 | 43.35 | 72 |
| 14/03/19 | 12 | 88 | 12.4 | 33.82 | 123 |
| 30/03/19 | 89 | 123 | 10.39 | 10.69 | 147 |
| Brief Statistics | PM2.5 | PM10 | SO2 | NOx | SPM |
| Maximum | 173 | 215 | 25.17 | 43.35 | 325 |
| Minimum | 9 | 32 | 0.37 | 4.89 | 69 |
| Average | 43.37 | 113.58 | 8.55 | 21.87 | 172.87 |
| 95 Percentile | 128.65 | 213.85 | 23.83 | 42.39 | 317 |
| 98 Percentile | 154.6 | 214.54 | 24.56 | 42.96 | 324.08 |
| Standard (24 Hrs) | 60 | 300 | 120 | 120 | 600 |
| Standard (Annual) | 40 | 215 | 80 | 80 | 430 |

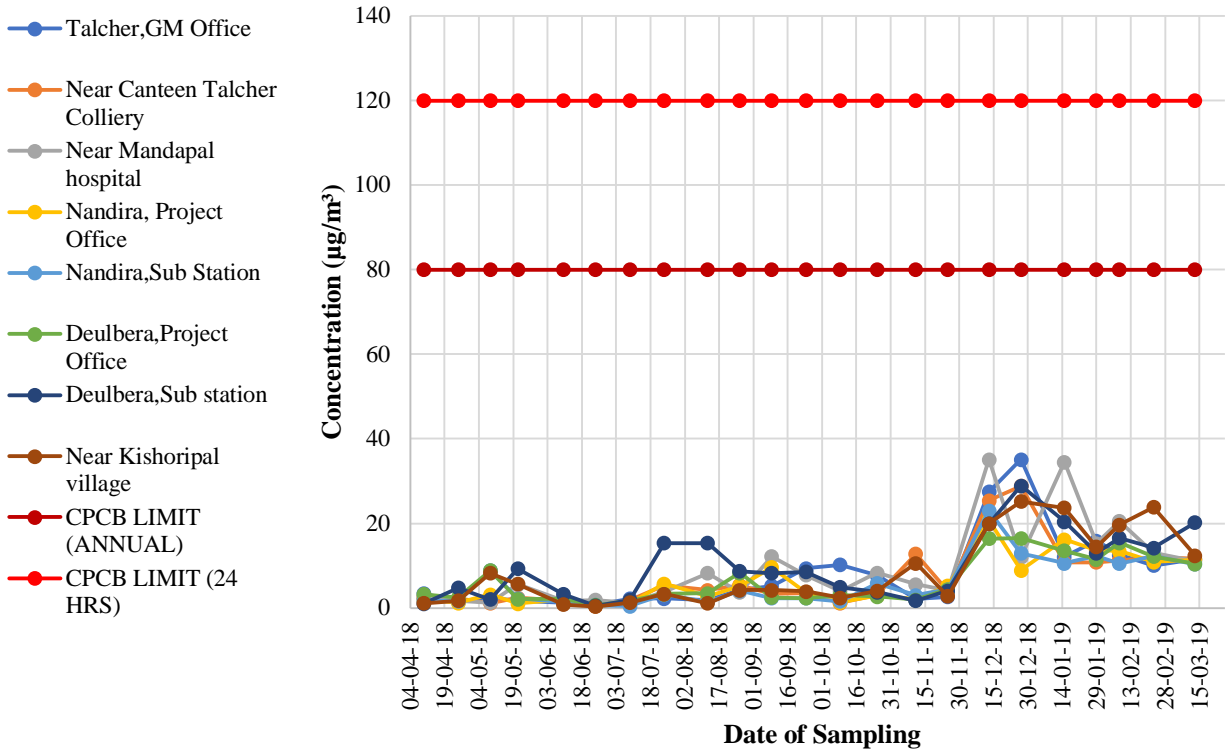
Graph showing PM2.5 Talcher Area



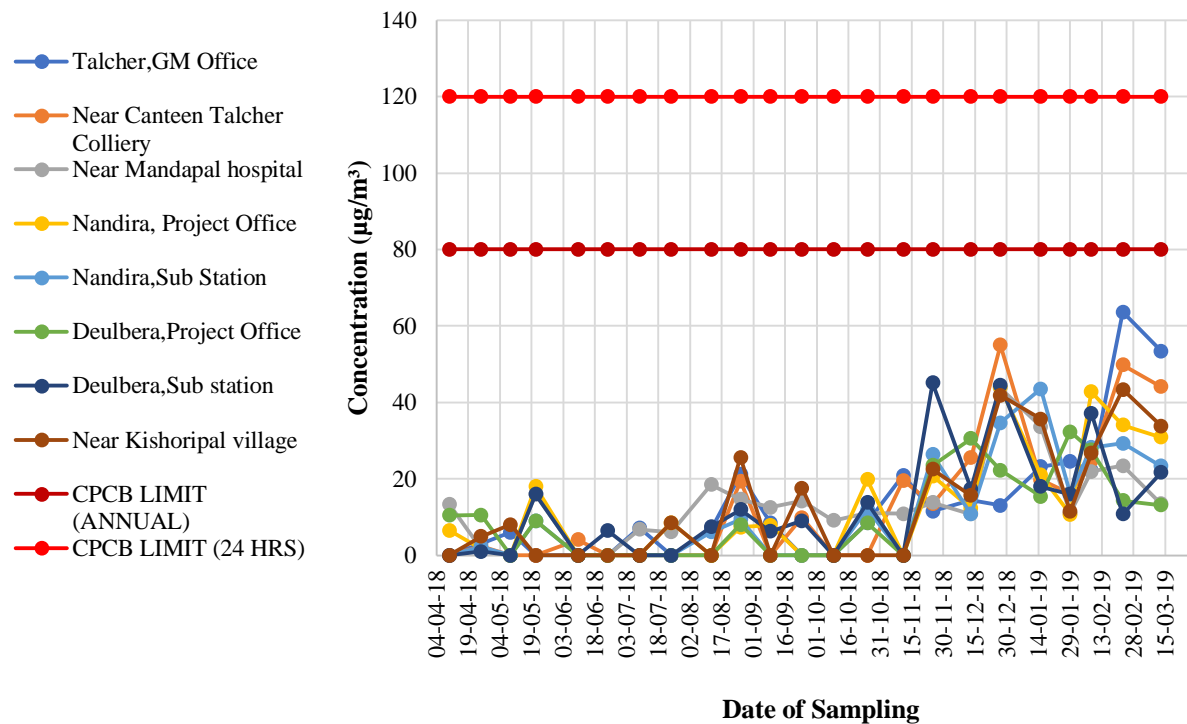
Graph showing PM 10 Talcher Area



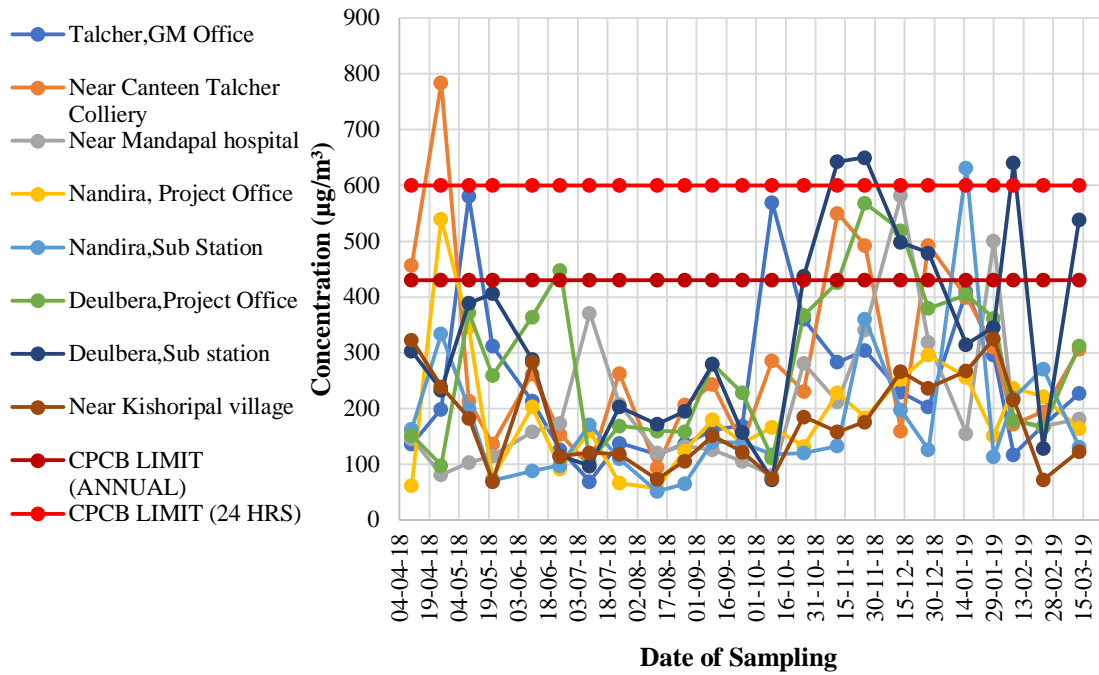
Graph showing SO2 Talcher Area



Graph showing NO2 Talcher Area



Graph showing SPM Talcher Area



TABLES FOR HEAVY METALS & OZONE DATA

Table:54

**Area: Jagannath Area
Project: Jagannath OCP**

| Project | Jagannath OCP | | | | | Standard |
|--------------------|----------------------|--------------------------------|-----------------------|---------------------|----------------------|-------------|
| Monitoring Station | Units | Jagannath OCP Time Office (A1) | Jagannath Colony (A2) | Near West Sump (A3) | Near View Point (A4) | |
| Date of sampling | | 23-09-18 | 23-09-18 | 22-09-18 | 22-09-18 | |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |

Table:55

**Area: Jagannath Area
Project: Ananta OCP**

| Project | Ananta OCP | | | | | Standard |
|--------------------|----------------------|-------------------|--------------------|---------------|---------------------|-------------|
| Monitoring Station | Units | Near Biswal Chowk | Near West Sump JNC | BCML Workshop | Ananta Vihar Colony | |
| Date of sampling | | 23-09-18 | 23-09-18 | 23-09-18 | 23-09-18 | |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |

Table:56
Area: Bharatpur Area
Project: Bharatpur OCP

| Project | Bharatpur OCP | | | | | Standard |
|--------------------|----------------------|----------|-----------------|---|----------------|--------------|
| Monitoring Station | Units | Near ETP | N W of the mine | Near civil maintenance office of Hingula Area | Regional Store | |
| Date of sampling | | 20-09-18 | 24-09-18 | 21-09-18 | 25-09-18 | |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |

Table:57
Area: Bharatpur Area
Project: Bharatpur OCP

| Project | Bharatpur OCP | | | | | | Standard | |
|--------------------|----------------------|----------------------|----------|----------|----------|------------------------------------|----------|--------------|
| Monitoring Station | Units | Near view point (A4) | | Near ETP | | Project Office, Balram OCP (NAAQS) | | |
| Date of sampling | | 25-12-18 | 12-01-19 | 24-12-18 | 13-01-19 | 20-12-18 | 15-01-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | 1.65 | 2.41 | 1.27 | 1.13 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | 5.22 | <1.0 | 2.5 | 20(Annual) |

Table:58
Area: Bharatpur Area
Project: Bharatpur OCP

| Project | Bharatpur OCP | | | | | | | Standard |
|--------------------|----------------------|-----------------|----------|---|----------|----------------|----------|--------------|
| Monitoring Station | Units | N W of the mine | | Near civil maintenance office of Hingula Area | | Regional Store | | |
| Date of sampling | | 24-12-18 | 13-01-18 | 24-12-18 | 12-01-19 | 24-12-18 | 13-01-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | 0.1 | 0.16 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | 1.62 | <1.0 | 1.58 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |

Table:59
Area: Lingaraj Area
Project: Lingaraj OCP

| Project | Lingaraj OCP | | | | | Standard |
|--------------------|----------------------|--------------------|-----------------------------|----------------------------------|-------------------------|--------------|
| Monitoring Station | Units | Lingaraj GM Office | Near South Side Of The Mine | Near C.T Road (Lingaraj to Dera) | Near North Side Of Mine | |
| Date of sampling | | 18-09-18 | 18-09-18 | 18-09-18 | 19-09-18 | |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |

Table:60
Area: Kaniha Area
Project: Kaniha OCP

| Project | | Kaniha OCP | | | | | | Standard |
|-------------------------|----------------------|-----------------|------------|----------------|------------|-------------------------|------------|-------------|
| Monitoring Station | Units | Chellia Village | | Jaipur Village | | NTPC Chakk, MGR (NAAQS) | | |
| Date of sampling | | 12-04-2018 | 25-04-2018 | 12-04-2018 | 25-04-2018 | 12-04-2018 | 25-04-2018 | |
| Ozone (O ₃) | (ng/m ³) | 1.34 | 2.19 | 1.16 | 2.49 | 1.06 | 1.16 | 06 (Annual) |

Table:61
Area: Kaniha Area
Project: Kaniha OCP

| Project | | Kaniha OCP | | | | | | Standard |
|-------------------------|----------------------|-----------------|----------|----------------|----------|-------------------------|----------|---------------|
| Monitoring Station | Units | Chellia Village | | Jaipur Village | | NTPC Chakk, MGR (NAAQS) | | |
| Date of sampling | | 11-05-18 | 24-05-18 | 11-05-18 | 24-05-18 | 11-05-18 | 24-05-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24 hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | 1.17 | 1.8 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | 1.13 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 11-05-18 | 25-05-18 | 11-05-18 | 25-05-18 | 11-05-18 | 25-05-18 | |
| Ozone (O ₃) | (µg/m ³) | 32.54 | <1.0 | 32.66 | <1.0 | <1.0 | <1.0 | 180 (01 hour) |

Table:62
Area: Kaniha Area
Project: Kaniha OCP

| Project | Units | Kaniha OCP | | | | | | Standard |
|-------------------------|----------------------|-----------------|----------|----------------|----------|-------------------------|----------|---------------|
| | | Chellia Village | | Jaipur Village | | NTPC Chakk, MGR (NAAQS) | | |
| Date of sampling | | 08-06-18 | 26-06-18 | 08-06-18 | 26-06-18 | 08-06-18 | 26-06-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | 3.71 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 13-06-18 | 26-06-18 | 13-06-18 | 26-06-18 | 13-06-18 | 26-06-18 | |
| Ozone (O ₃) | (µg/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 180 (01 hour) |

Table:63
Area: Kaniha Area
Project: Kaniha OCP

| Monitoring Station | Units | Kaniha OCP | | | | | | Standard |
|-------------------------|----------------------|-----------------|----------|----------------|----------|-------------------------|----------|---------------|
| | | Chellia Village | | Jaipur Village | | NTPC Chakk, MGR (NAAQS) | | |
| Date of sampling | | 11-07-18 | 25-07-18 | 11-07-18 | 25-07-18 | 11-07-18 | 25-07-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 11-07-18 | 25-07-18 | 11-07-18 | 25-07-18 | 11-07-18 | 25-07-18 | |
| Ozone (O ₃) | (µg/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 180 (01 hour) |

Table:64
Area: Kaniha Area
Project: Kaniha OCP

| Monitoring Station | Units | Kaniha OCP | | | | | | Standard |
|-------------------------|----------------------|-----------------|----------|----------------|----------|-------------------------|----------|---------------|
| | | Chellia Village | | Jaipur Village | | NTPC Chakk, MGR (NAAQS) | | |
| Date of sampling | | 13-08-18 | 29-08-18 | 13-08-18 | 29-08-18 | 13-08-18 | 29-08-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 13-08-18 | 28-08-18 | 13-08-18 | 28-08-18 | 13-08-18 | 28-08-18 | |
| Ozone (O ₃) | (µg/m ³) | 10.16 | 3.22 | 8.45 | 11.1 | 10.28 | 4.2 | 180 (01 hour) |

Table:65
Area: Kaniha Area
Project: Kaniha OCP

| Project | Monitoring Station | Units | Kaniha OCP | | | | | | Standard |
|---------|-------------------------|----------------------|-------------------------|----------|------------------------|----------|-------------------------|----------|---------------|
| | | | Chellia Village (NAAQS) | | Jaipur Village (NAAQS) | | NTPC Chakk, MGR (NAAQS) | | |
| | | | 12-09-18 | 21-09-18 | 12-09-18 | 21-09-18 | 12-09-18 | 21-09-18 | |
| | Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| | Nickel (Ni) | (ng/m ³) | <1.0 | 20.75 | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| | Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| | Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| | Date of Sampling | Units | 13-09-18 | 26-09-18 | 13-09-18 | 26-09-18 | 13-09-18 | 26-09-18 | Standards |
| | Ozone (O ₃) | (µg/m ³) | 22-01-00 | 16-01-00 | 06-02-00 | 17-01-00 | 22-01-00 | 19-01-00 | 180 (01 hour) |

Table:66
Area: Kaniha Area
Project: Kaniha OCP

| Project | Kaniha OCP | | | | | Standard |
|------------------|----------------------|----------|----------------|-----------------|------------------------------|-------------|
| | Monitoring Station | Units | Project Office | Old Side Office | New Time Office Near Z-Patch | |
| Date of sampling | | 21-09-18 | 21-10-18 | 21-09-18 | 22-09-18 | |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |

Table:67
Area: Kaniha Area
Project: Kaniha OCP

| Project | Kaniha OCP | | | | | | | Standard |
|-------------------------|----------------------|----------|-----------------------------|----------|----------------------------|----------|-----------------------------|---------------|
| | Monitoring Station | Units | Chellia Village (NAAQS)1251 | | Jaipur Village (NAAQS)1255 | | NTPC Chakk, MGR (NAAQS)1244 | |
| Date of sampling | | 11-10-18 | 28-10-18 | 11-10-18 | 28-10-18 | 11-10-18 | 28-10-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 1.84 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | 13.51 | <1.0 | <1.0 | 20(Annual) |
| Date of Sampling | Units | 11-10-18 | 28-10-18 | 11-10-18 | 28-10-18 | 11-10-18 | 28-10-18 | Standards |
| Ozone (O ₃) | (µg/m ³) | 40.11 | 0.43 | 24.21 | 0.3 | 42.33 | 0.15 | 180 (01 hour) |

Table:68
Area: Kaniha Area
Project: Kaniha OCP

| Project | Kaniha OCP | | | | | | | Standard |
|-------------------------|------------------------------|----------|-------------------------|----------|------------------------|----------|-------------------------|---------------|
| | Monitoring Station | Units | Chellia Village (NAAQS) | | Jaipur Village (NAAQS) | | NTPC Chakk, MGR (NAAQS) | |
| Date of sampling | | 13-11-18 | 27-11-18 | 13-11-18 | 27-11-18 | 13-11-18 | 27-11-18 | |
| Lead (Pb) | ($\mu\text{g}/\text{m}^3$) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 01-01-00 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of Sampling | Units | 13-11-18 | 27-11-18 | 13-11-18 | 27-11-18 | 13-11-18 | 27-11-18 | Standards |
| Ozone (O ₃) | ($\mu\text{g}/\text{m}^3$) | 0.24 | 47.53 | 0.4 | 0.27 | 0.3 | 20.25 | 180 (01 hour) |

Table:69
Area: Hingula Area
Project: Hingula OCP

| Project | Hingula OCP | | | | | Standard |
|------------------------|------------------------------|----------|------------------------------|----------|-------------------------|---------------|
| | Monitoring Station | Units | Chhotobereni Village (NAAQS) | | Kumunda Village (NAAQS) | |
| Date of sampling | | 11-05-18 | 24-05-18 | 11-05-18 | 24-05-18 | |
| Lead (Pb) | ($\mu\text{g}/\text{m}^3$) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | 11.03 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | 1.35 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 11-05-18 | 24-05-18 | 11-05-18 | 24-05-18 | |
| Ozone(O ₃) | ($\mu\text{g}/\text{m}^3$) | <1.0 | <1.0 | 46.77 | 2.34 | 180 (01 hour) |

Table:70
Area: Hingula Area
Project: Hingula OCP

| Project | Hingula OCP | | | | | Standard |
|-------------------------|------------------------------|----------|------------------------------|----------|-------------------------|---------------|
| | Monitoring Station | Units | Chhotobereni Village (NAAQS) | | Kumunda Village (NAAQS) | |
| Date of sampling | | | 06-06-18 | 26-06-18 | 06-06-18 | 26-06-18 |
| Lead (Pb) | ($\mu\text{g}/\text{m}^3$) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 13-06-18 | 26-06-18 | 13-06-18 | 26-06-18 | |
| Ozone (O ₃) | ($\mu\text{g}/\text{m}^3$) | <1.0 | <1.0 | <1.0 | <1.0 | 180 (01 hour) |

Table:71
Area: Hingula Area
Project: Hingula OCP

| Project | Hingula OCP | | | | | Standard |
|-------------------------|------------------------------|----------|------------------------------|----------|-------------------------|---------------|
| | Monitoring Station | Units | Chhotobereni Village (NAAQS) | | Kumunda Village (NAAQS) | |
| Date of sampling | | | 11-07-18 | 25-07-18 | 11-07-18 | 25-07-18 |
| Lead (Pb) | ($\mu\text{g}/\text{m}^3$) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 11-07-18 | 25-07-18 | 11-07-18 | 25-07-18 | |
| Ozone (O ₃) | ($\mu\text{g}/\text{m}^3$) | <1.0 | <1.0 | <1.0 | <1.0 | 180 (01 hour) |

Table:72
Area: Hingula Area
Project: Hingula OCP

| Project | Hingula OCP | | | | | Standard |
|-------------------------|----------------------|----------|------------------------------|----------|-------------------------|---------------|
| | Monitoring Station | Units | Chhotobereni Village (NAAQS) | | Kumunda Village (NAAQS) | |
| Date of sampling | | | | 13-08-18 | 28-08-18 | 13-08-18 |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 13-08-18 | 28-08-18 | 13-08-18 | 28-08-18 | |
| Ozone (O ₃) | (µg/m ³) | 9.64 | 7.42 | 8.24 | 3.07 | 180 (01 hour) |

Table:73
Area: Hingula Area
Project: Hingula OCP

| Project | Hingula OCP | | | | | Standard |
|------------------------|----------------------|----------|------------------------------|----------|-------------------------|---------------|
| | Monitoring Station | Units | Chhotobereni Village (NAAQS) | | Kumunda Village (NAAQS) | |
| Date of sampling | | | | 12-09-18 | 19-09-18 | 12-09-18 |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | 17.93 | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Date of Sampling | Units | 13-09-18 | 26-09-18 | 13-09-18 | 26-09-18 | Standards |
| Ozone(O ₃) | (µg/m ³) | 30.11 | 15.24 | 20.68 | 14.66 | 180 (01 hour) |

Table:74
Area: Hingula Area
Project: Hingula OCP

| Project | Hingula OCP | | | | | Standard |
|------------------------|----------------------|----------|----------------------------------|----------|-----------------------------|---------------|
| | Monitoring Station | Units | Chhotobereni Village (NAAQS)1262 | | Kumunda Village (NAAQS)1263 | |
| Date of sampling | | | 11-10-18 | 26-10-18 | 04-10-18 | 26-10-18 |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of Sampling | Units | 11-10-18 | 25-10-18 | 11-10-18 | 25-10-18 | Standards |
| Ozone(O ₃) | (µg/m ³) | 42 | 0.3 | 19.92 | 0.18 | 180 (01 hour) |

Table:75
Area: Hingula Area
Project: Hingula OCP

| Project | Hingula OCP | | | | | Standard |
|------------------------|----------------------|----------|----------------------------------|----------|-----------------------------|---------------|
| | Monitoring Station | Units | Chhotobereni Village (NAAQS)1518 | | Kumunda Village (NAAQS)1498 | |
| Date of sampling | | | 13-11-18 | 27-11-18 | 13-11-18 | 27-11-18 |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | 03-01-00 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of Sampling | Units | 13-11-18 | 27-11-18 | 13-11-18 | 27-11-18 | Standards |
| Ozone(O ₃) | (µg/m ³) | 00-01-00 | 16-02-00 | 00-01-00 | 00-01-00 | 180 (01 hour) |

Table:76
Area: Hingula Area
Project: Balram OCP

| Project | | Balaram OCP | | | | |
|-------------------------|------------------------------|------------------------|----------|------------------------|----------|---------------|
| Monitoring Station | Units | Solada Village (NAAQS) | | Natada Village (NAAQS) | | Standard |
| Date of sampling | | 11-05-18 | 24-05-18 | 11-05-18 | 24-05-18 | |
| Lead (Pb) | ($\mu\text{g}/\text{m}^3$) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | 2.88 | 5.49 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 11-05-18 | 24-05-18 | 11-05-18 | 24-05-18 | |
| Ozone (O ₃) | ($\mu\text{g}/\text{m}^3$) | 43.79 | <1.0 | 17.91 | <1.0 | 180 (01 hour) |

Table:77
Area: Hingula Area
Project: Balram OCP

| Project | | Balaram OCP | | | | |
|-------------------------|------------------------------|------------------------|----------|------------------------|----------|---------------|
| Monitoring Station | Units | Solada Village (NAAQS) | | Natada Village (NAAQS) | | Standard |
| Date of sampling | | 06-06-18 | 26-06-18 | 06-06-18 | 26-06-18 | |
| Lead (Pb) | ($\mu\text{g}/\text{m}^3$) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 13-06-18 | 26-06-18 | 13-06-18 | 26-06-18 | |
| Ozone (O ₃) | ($\mu\text{g}/\text{m}^3$) | <1.0 | <1.0 | <1.0 | <1.0 | 180 (01 hour) |

Table:78
Area: Hingula Area
Project: Balram OCP

| Project | Balaram OCP | | | | | Standard |
|-------------------------|----------------------|-----------------|------------------------|-----------------|------------------------|---------------|
| | Monitoring Station | Units | Solada Village (NAAQS) | | Natada Village (NAAQS) | |
| Date of sampling | | 11-07-18 | 25-07-18 | 11-07-18 | 25-07-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 11-07-18 | 25-07-18 | 11-07-18 | 25-07-18 | |
| Ozone (O ₃) | (µg/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 180 (01 hour) |

Table:79
Area: Hingula Area
Project: Balram OCP

| Project | Balaram OCP | | | | | Standard |
|-------------------------|----------------------|-----------------|------------------------|-----------------|------------------------|---------------|
| | Monitoring Station | Units | Solada Village (NAAQS) | | Natada Village (NAAQS) | |
| Date of sampling | | 13-08-18 | 28-08-18 | 13-08-18 | 28-08-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of sampling | | 13-08-18 | 28-08-18 | 13-08-18 | 28-08-18 | |
| Ozone (O ₃) | (µg/m ³) | 3.56 | 7.97 | 3.1 | 10.83 | 180 (01 hour) |

Table:80
Area: Hingula Area
Project: Balram OCP

| Project | Balaram OCP | | | | | Standard |
|-------------------------|----------------------|------------------------|-----------------|------------------------|-----------------|------------------|
| Monitoring Station | Units | Solada Village (NAAQS) | | Natada Village (NAAQS) | | |
| Date of sampling | | 12-09-18 | 19-09-18 | 12-09-18 | 19-09-18 | |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Date of Sampling | Units | 13-09-18 | 26-09-18 | 13-09-18 | 26-09-18 | Standards |
| Ozone (O ₃) | (µg/m ³) | 24.54 | 16.42 | 23.45 | 15.11 | 180 (01 hour) |

Table:81
Area: Hingula Area
Project: Balram OCP

| Project | Balaram OCP 1192 | | | | | Standard |
|--------------------|----------------------|---------------------|---------------------------------|-------------------------------------|----------------------------|-------------|
| Monitoring Station | Units | Village Time Office | Near Project Office Hingula OCP | One Backfilled Area Near Dozer Shed | Project Office, Balram OCP | |
| Date of sampling | | 19-09-18 | 19-09-18 | 20-09-18 | 20-09-18 | |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | 01-01-00 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | |

Table:82
Area: Hingula Area
Project: Balram OCP

| Project | Balaram OCP | | | | | Standard |
|-------------------------|----------------------|----------|----------------------------|----------|----------------------------|---------------|
| | Monitoring Station | Units | Solada Village (NAAQS)1276 | | Natada Village (NAAQS)1270 | |
| Date of sampling | | 11-10-18 | 26-10-18 | 11-10-18 | 26-10-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | 7.16 | 20(Annual) |
| Date of Sampling | Units | 11-10-18 | 25-10-18 | 11-10-18 | 25-10-18 | Standards |
| Ozone (o ₃) | (µg/m ³) | 22.53 | 0.43 | 42.88 | 0.15 | 180 (01 hour) |

Table:83
Area: Hingula Area
Project: Balram OCP

| Project | Balaram OCP | | | | | Standard |
|-------------------------|----------------------|----------|----------------------------|----------|----------------------------|---------------|
| | Monitoring Station | Units | Solada Village (NAAQS)1508 | | Natada Village (NAAQS)1502 | |
| Date of sampling | | 13-11-18 | 27-11-18 | 13-11-18 | 27-11-18 | |
| Lead (Pb) | (µg/m ³) | <0.1 | <0.1 | <0.1 | <0.1 | 1.0(24hours) |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | 02-01-00 | 01-01-00 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | <1.0 | <1.0 | 20(Annual) |
| Date of Sampling | Units | 13-11-18 | 27-11-18 | 13-11-18 | 27-11-18 | Standards |
| Ozone (o ₃) | (µg/m ³) | 00-01-00 | 00-01-00 | 00-01-00 | 16-02-00 | 180 (01 hour) |

Table:84
Area: Talcher Colliery
Project: Talcher Colliery

| Project | Talcher Colliery | | | Standard |
|------------------|----------------------|----------|-----------|-------------|
| | Monitoring Station | Units | GM Office | |
| Date of sampling | | 24-09-18 | 24-09-18 | |
| Arsenic (As) | (ng/m ³) | <1.0 | <1.0 | 6.0(Annual) |
| Nickel (Ni) | (ng/m ³) | <1.0 | <1.0 | 20(Annual) |
| Chromium (Cr) | (µg/m ³) | <0.1 | <0.1 | |
| Cadmium (Cd) | (µg/m ³) | <0.1 | <0.1 | |

TABLES FOR NOISE LEVEL MONITORING DATA

Table:85

Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Jagannath OCP- Time Office (A1)

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|------------------------|----------------|------------------|
| 09/04/18 | 63.1 | 62.5 |
| 23/04/18 | 64.1 | 60.9 |
| 08/05/18 | 63.4 | 61 |
| 22/05/18 | 63.9 | 61.7 |
| 09/06/18 | 61.4 | 59.8 |
| 23/06/18 | 63.2 | 61.9 |
| 09/07/18 | 63.6 | 61.5 |
| 23/07/18 | 63.5 | 61.0 |
| 11/08/18 | 63.2 | 62.4 |
| 26/08/18 | 63.5 | 61.9 |
| 09/09/18 | 63.9 | 61.7 |
| 24/09/18 | 63.4 | 61.6 |
| 09/10/18 | 62.1 | 62.5 |
| 25/10/18 | 63.4 | 62.1 |
| 11/11/18 | 64 | 62.3 |
| 25/11/18 | 62.6 | 61 |
| 11/12/18 | 63.7 | 62.7 |
| 25/12/18 | 63.4 | 62.1 |
| 15/01/19 | 63.5 | 62.2 |
| 22/01/19 | 64.2 | 63.8 |
| 11/02/19 | 64.6 | 64.2 |
| 22/02/19 | 63.4 | 61.6 |
| 12/03/19 | 68.4 | 64.7 |
| 28/03/19 | 63.2 | 60.5 |
| Brief Statistic | Day | Night |
| Minimum | 61.4 | 59.8 |
| Maximum | 68.4 | 64.7 |
| Mean | 63.6 | 62 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Jagannath OCP-Time Office(A1)

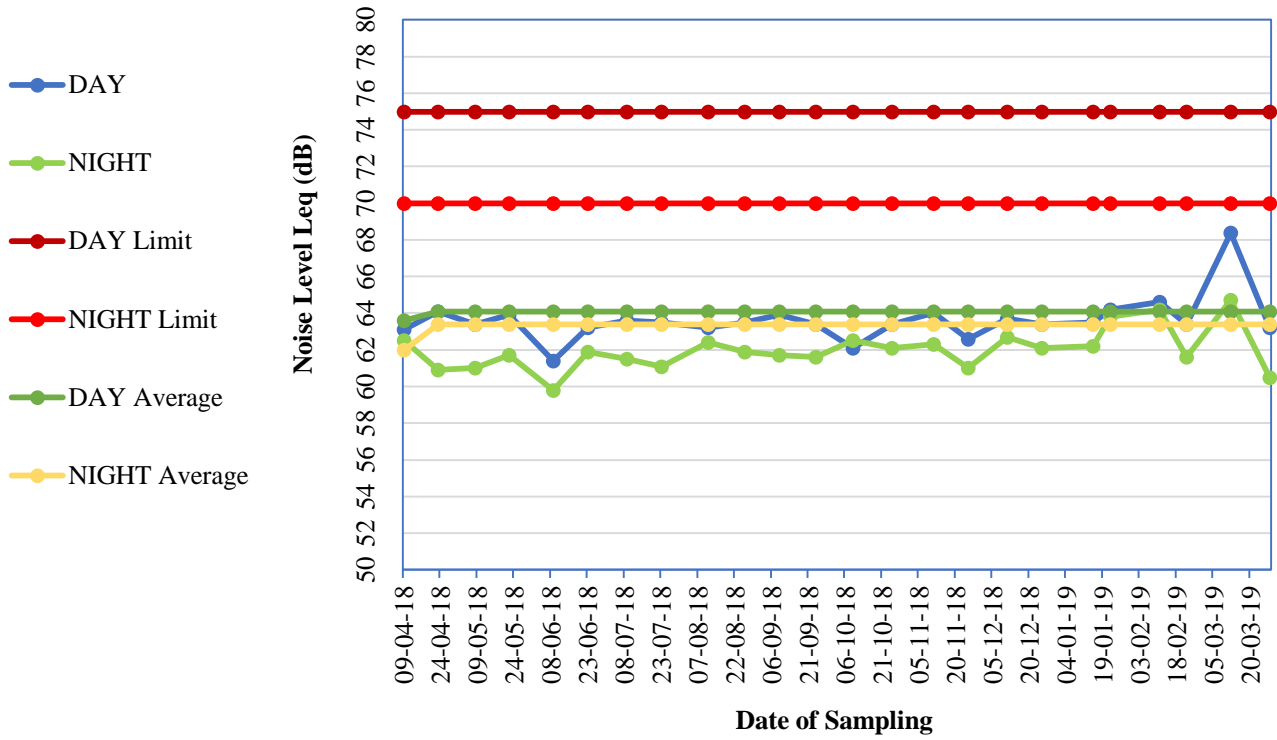


Table:86

**Area: Jagannath
Project: Jagannath OCP**

Monitoring Station: Jagannath Colony (A2)

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 61.7 | 58.2 |
| 23/04/18 | 60.9 | 57.5 |
| 08/05/18 | 60.6 | 59.8 |
| 23/05/18 | 60.3 | 58.3 |
| 09/06/18 | 59.7 | 60.1 |
| 23/06/18 | 59.5 | 57.6 |
| 09/07/18 | 60.3 | 58.3 |
| 23/07/18 | 60.3 | 59.1 |
| 11/08/18 | 61.6 | 58.3 |
| 26/08/18 | 60.1 | 58.2 |
| 09/09/18 | 60.3 | 58.3 |
| 24/09/18 | 60.2 | 58.1 |
| 09/10/18 | 60.7 | 57.6 |
| 25/10/18 | 60.8 | 58.2 |
| 11/11/18 | 61.1 | 58.5 |
| 25/11/18 | 60.7 | 57.3 |
| 11/12/18 | 61.5 | 55.2 |
| 25/12/18 | 60.8 | 58.2 |
| 15/01/19 | 60.9 | 58.3 |
| 22/01/19 | 62.7 | 60.5 |
| 11/02/19 | 60.1 | 57.5 |
| 22/02/19 | 60.2 | 58.2 |
| 12/03/19 | 57.9 | 54 |
| 28/03/19 | 59.3 | 57.6 |
| Brief Statistic | Day | Night |
| Minimum | 57.9 | 54 |
| Maximum | 62.7 | 60.5 |
| Mean | 60.5 | 58.03 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Jaganath Colony(A2)

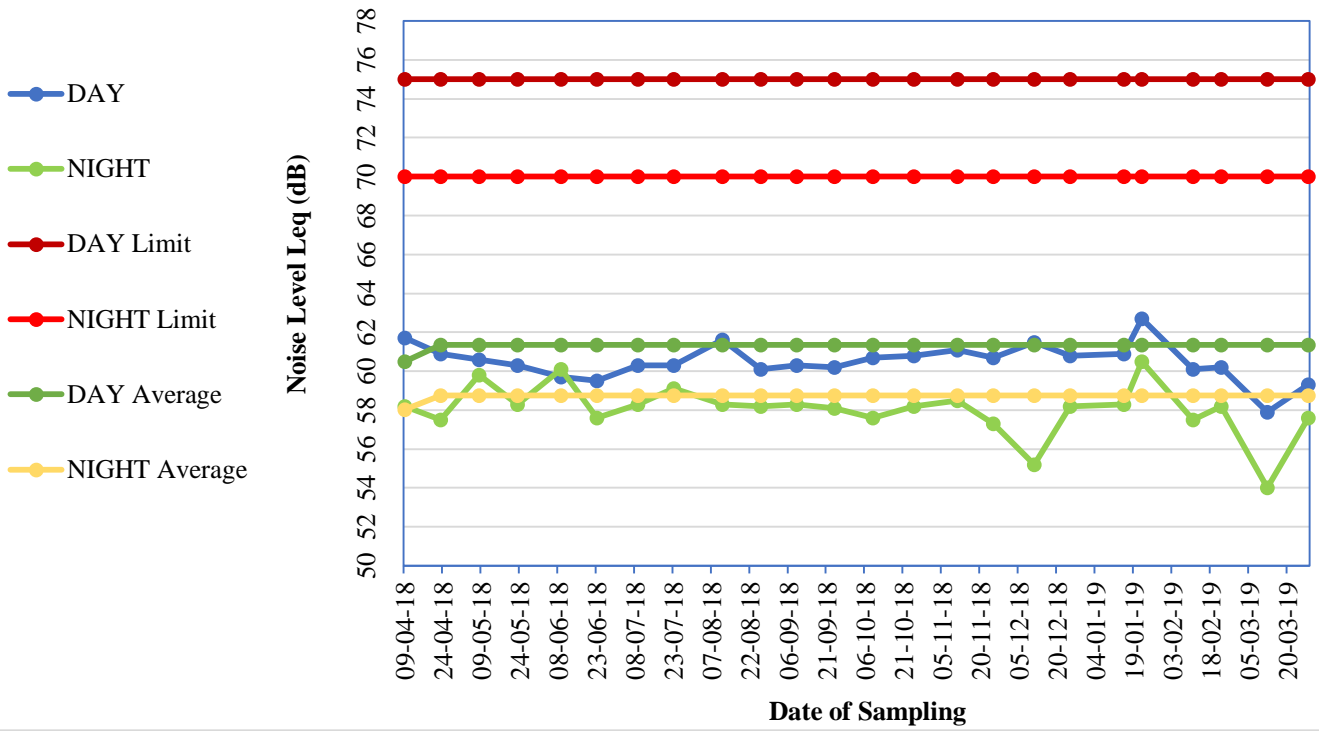


Table:87

Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Jagannath OCP- Near West Sump (A3)

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 64.3 | 63.9 |
| 22/04/18 | 63.1 | 62.4 |
| 08/05/18 | 65.4 | 63.2 |
| 24/05/18 | 67.5 | 64.8 |
| 09/06/18 | 58.8 | 59.4 |
| 23/06/18 | 65.4 | 63.9 |
| 09/07/18 | 67.5 | 64.7 |
| 23/07/18 | 65.7 | 63.4 |
| 11/08/18 | 64.2 | 63.6 |
| 26/08/18 | 64.7 | 62.3 |
| 09/09/18 | 67.5 | 64.8 |
| 24/09/18 | 64.3 | 63.9 |
| 09/10/18 | 63.2 | 64.2 |
| 25/10/18 | 65.2 | 63.8 |
| 11/11/18 | 65.4 | 63.6 |
| 25/11/18 | 64.3 | 63.7 |
| 11/12/18 | 65.4 | 63.6 |
| 25/12/18 | 65.2 | 63.8 |
| 15/01/19 | 65 | 62.8 |
| 22/01/19 | 67.4 | 66.7 |
| 11/02/19 | 63.9 | 63.5 |
| 22/02/19 | 64.3 | 63.9 |
| 12/03/19 | 65.8 | 60.7 |
| 28/03/19 | 63.5 | 61.4 |
| Brief Statistic | Day | Night |
| Minimum | 58.8 | 59.4 |
| Maximum | 67.5 | 66.7 |
| Mean | 64.9 | 63.4 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near West sump(A3)

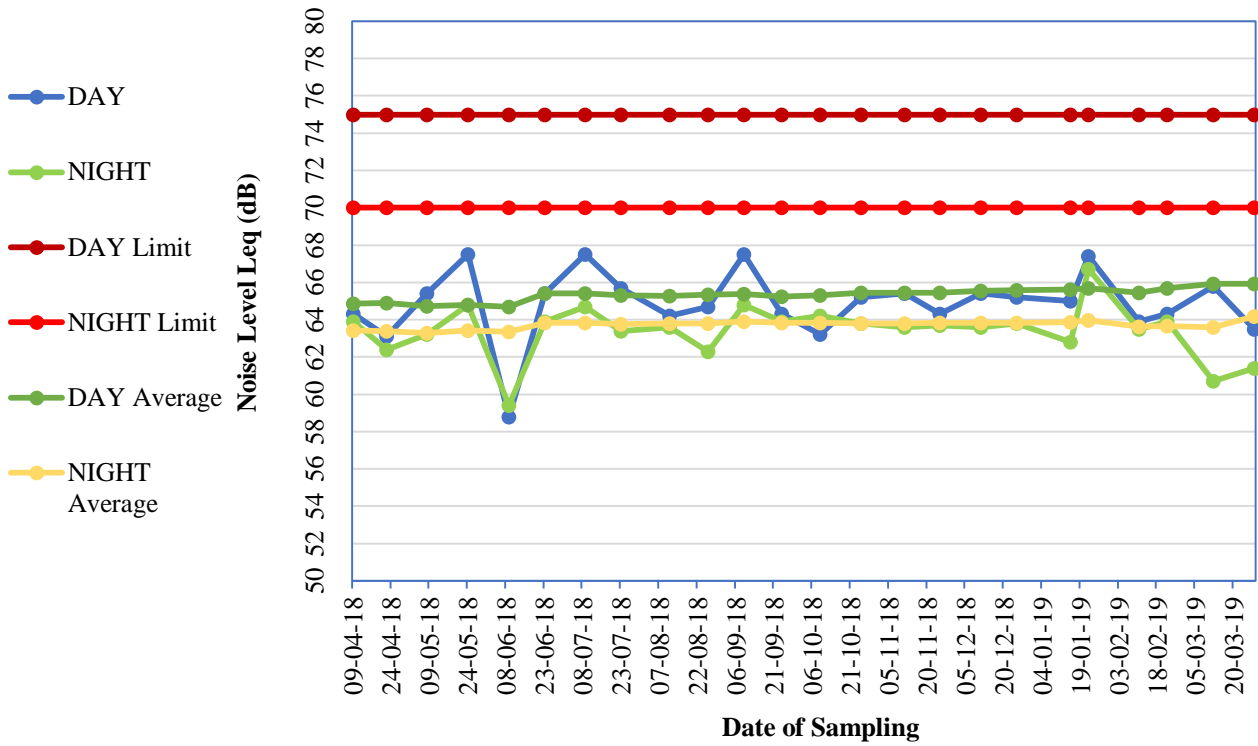


Table:88

Area: Jagannath
Project: Jagannath OCP
Monitoring Station: Jagannath OCP- Near View point(A4)

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 65.1 | 62.7 |
| 22/04/18 | 64.9 | 63.8 |
| 08/05/18 | 66.8 | 65.6 |
| 25/05/18 | 65.9 | 63.6 |
| 09/06/18 | 60.7 | 58.7 |
| 23/06/18 | 66.7 | 65.2 |
| 09/07/18 | 65.7 | 62.6 |
| 23/07/18 | 66.2 | 64.7 |
| 11/08/18 | 64 | 62.5 |
| 26/08/18 | 64.5 | 63.1 |
| 09/09/18 | 65.9 | 63.6 |
| 24/09/18 | 65.1 | 63.7 |
| 09/10/18 | 65.1 | 62.7 |
| 25/10/18 | 66.2 | 64.7 |
| 11/11/18 | 66.5 | 64.5 |
| 25/11/18 | 66.2 | 64.5 |
| 11/12/18 | 67.6 | 60.4 |
| 25/12/18 | 66.2 | 64.7 |
| 15/01/19 | 65.2 | 64.3 |
| 22/01/19 | 65.9 | 65.2 |
| 11/02/19 | 64.1 | 62.8 |
| 22/02/19 | 65.1 | 62.7 |
| 12/03/19 | 62.9 | 59.8 |
| 28/03/19 | 63.9 | 60.4 |
| Brief Statistic | Day | Night |
| Minimum | 60.7 | 58.7 |
| Maximum | 67.6 | 65.6 |
| Mean | 65.3 | 63.2 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near View point(A4)

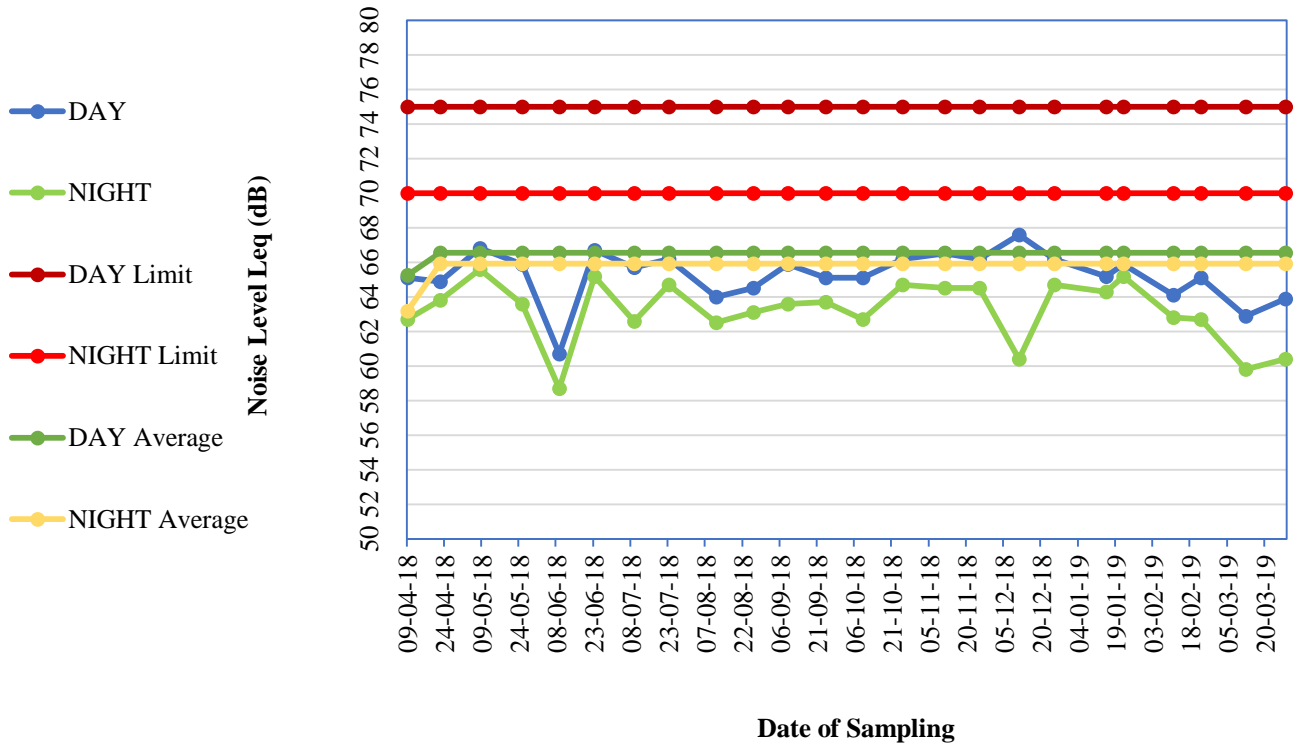


Table:89

Area: Jagannath
Project: Ananta OCP
Monitoring Station: BCML Workshop

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06-04-2018 | 61.7 | 58.3 |
| 23-04-2018 | 62.4 | 59.4 |
| 06-05-2018 | 65.8 | 60.4 |
| 21-05-2018 | 63.4 | 61.9 |
| 07-06-2018 | 61.7 | 59.8 |
| 21-06-2018 | 62.7 | 60.1 |
| 06-07-2018 | 63.4 | 61.8 |
| 20-07-2018 | 62.5 | 60.1 |
| 09-08-2018 | 61.7 | 58.3 |
| 24-08-2018 | 60.6 | 57.4 |
| 06-09-2018 | 63.4 | 61.9 |
| 21-09-2018 | 62.7 | 59.8 |
| 06-10-2018 | 60.7 | 58.4 |
| 24-10-2018 | 62.6 | 60.6 |
| 08-11-2018 | 62.7 | 60.7 |
| 23-11-2018 | 61.5 | 60.7 |
| 07-12-2018 | 64.8 | 56.5 |
| 21-12-2018 | 62.7 | 60.5 |
| 14-01-2019 | 62.6 | 59.6 |
| 22-01-2019 | 63.1 | 61.9 |
| 08-02-2019 | 62.4 | 60.2 |
| 20-02-2019 | 62.7 | 59.8 |
| 11-03-2019 | 59.8 | 58.4 |
| 27-03-2019 | 60.5 | 59.3 |
| Brief Statistic | Day | Night |
| MIN | 59.8 | 56.5 |
| MAX | 65.8 | 61.9 |
| MEAN | 62.4 | 59.83 |
| Noise Standard | 75 | 70 |

Graph showing Noise in BCML Workshop

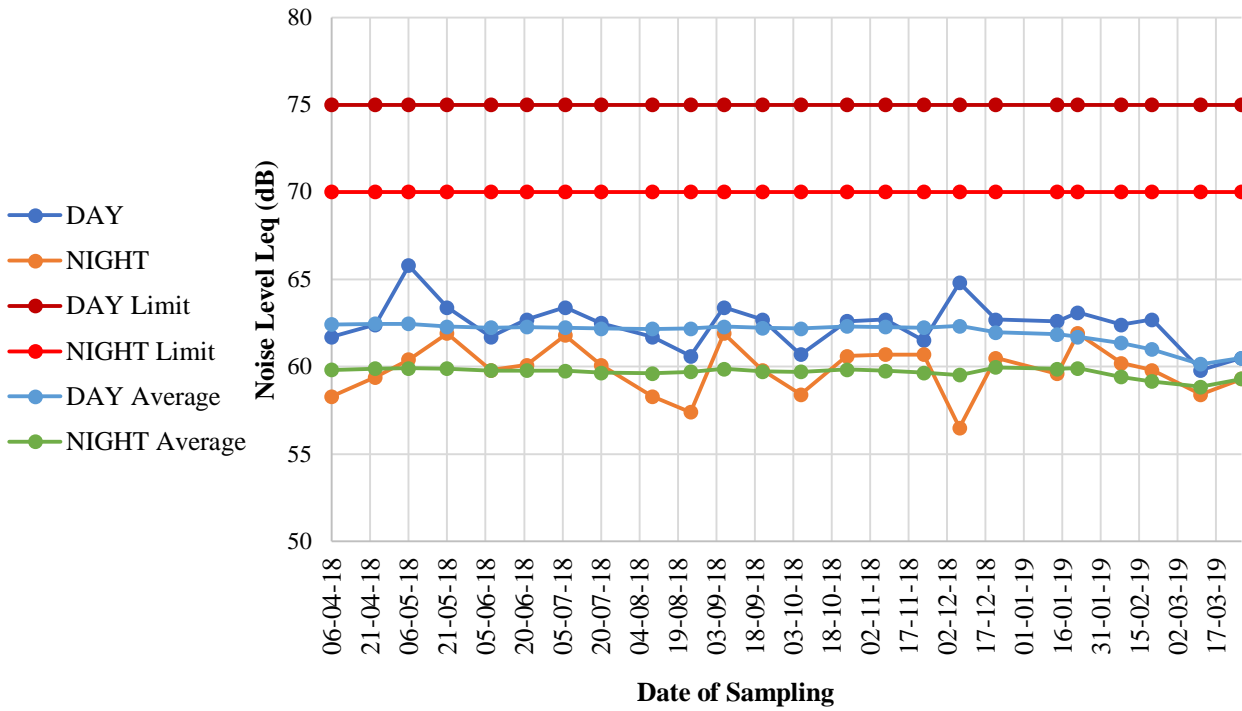


Table:90

**Area: Jagannath
Project: Ananta OCP
Monitoring Station: Ananta Vihar Colony**

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06-04-2018 | 61.5 | 57.4 |
| 23-04-2018 | 60.2 | 56.8 |
| 06-05-2018 | 61.3 | 58.4 |
| 22-05-2018 | 60.2 | 58.3 |
| 07-06-2018 | 59.8 | 59.2 |
| 21-06-2018 | 60.1 | 58.3 |
| 06-07-2018 | 60.2 | 58.2 |
| 20-07-2018 | 60.2 | 58.3 |
| 09-08-2018 | 61.3 | 57.2 |
| 24-08-2018 | 60.1 | 58.2 |
| 06-09-2018 | 60.2 | 58.3 |
| 21-09-2018 | 60.7 | 57.6 |
| 06-10-2018 | 61.6 | 59.2 |
| 24-10-2018 | 60.1 | 57.8 |
| 08-11-2018 | 60.3 | 57.8 |
| 23-11-2018 | 59.7 | 56.5 |
| 07-12-2018 | 65.6 | 60.7 |
| 21-12-2018 | 60.3 | 57.7 |
| 14-01-2019 | 59.1 | 57.5 |
| 22-01-2019 | 61.4 | 58.9 |
| 08-02-2019 | 60.8 | 56.6 |
| 20-02-2019 | 60.7 | 57.6 |
| 11-03-2019 | 60.1 | 57.4 |
| 27-03-2019 | 58.2 | 57.5 |
| Brief Statistic | Day | Night |
| MIN | 58.2 | 56.5 |
| MAX | 65.6 | 60.7 |
| MEAN | 60.57 | 57.98 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Ananta vihar colony

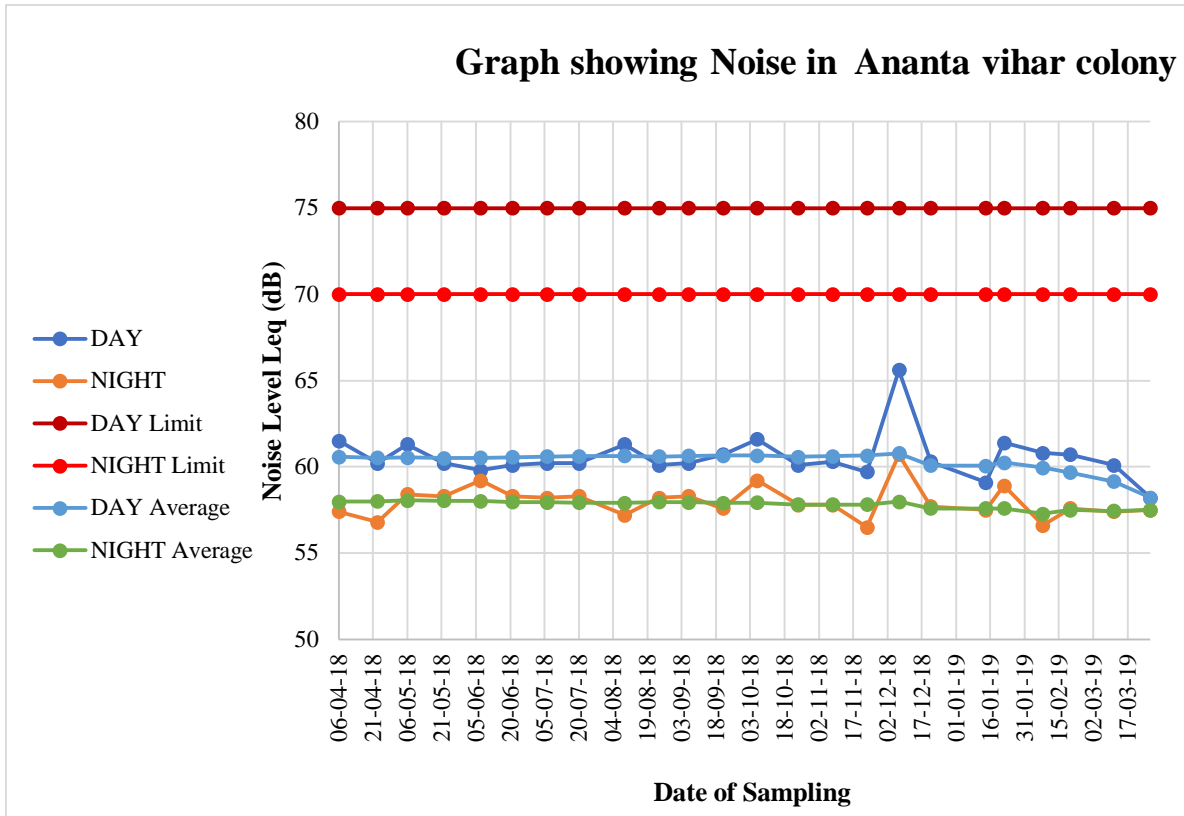


Table:91

Area: Jagannath
Project: Ananta OCP
Monitoring Station: Near Biswal chowk

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06-04-2018 | 66.7 | 59.3 |
| 23-04-2018 | 64.4 | 60.4 |
| 06-05-2018 | 63.4 | 60.1 |
| 19-05-2018 | 62.9 | 60.5 |
| 07-06-2018 | 59.7 | 60.1 |
| 21-06-2018 | 61.3 | 60.2 |
| 06-07-2018 | 60.2 | 57.7 |
| 20-07-2018 | 62.5 | 59.7 |
| 09-08-2018 | 63.6 | 61.2 |
| 24-08-2018 | 61.3 | 59.5 |
| 06-09-2018 | 62.9 | 60.5 |
| 21-09-2018 | 62.5 | 60.5 |
| 06-10-2018 | 60.7 | 59.3 |
| 24-10-2018 | 63.1 | 60.9 |
| 08-11-2018 | 63 | 60.7 |
| 23-11-2018 | 63.01 | 61.2 |
| 07-12-2018 | 61.4 | 58.2 |
| 21-12-2018 | 63.1 | 60.9 |
| 14-01-2019 | 62.9 | 60.7 |
| 22-01-2019 | 65.3 | 64.6 |
| 08-02-2019 | 63.6 | 60.2 |
| 20-02-2019 | 62.5 | 60.5 |
| 11-03-2019 | 61.2 | 59.7 |
| 27-03-2019 | 60.6 | 59.9 |
| Brief Statistic | Day | Night |
| MIN | 59.7 | 57.7 |
| MAX | 66.7 | 64.6 |
| MEAN | 62.5 | 60.2 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near Biswal Chowk

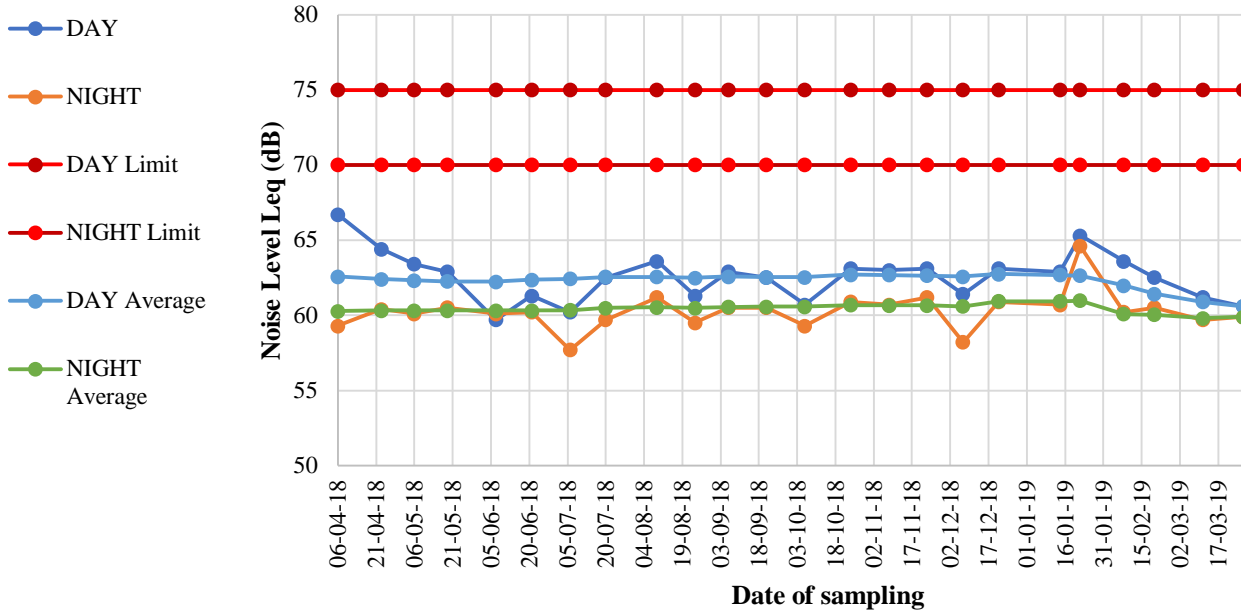


Table:92

Area: Jagannath
Project: Ananta OCP
Monitoring Station: Near West sump, JNCs

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06-05-2018 | 63.8 | 62.8 |
| 20-05-2018 | 65.1 | 63.7 |
| 07-06-2018 | 60.2 | 58.7 |
| 21-06-2018 | 65.8 | 63.3 |
| 06-07-2018 | 65.1 | 63.4 |
| 20-07-2018 | 64.5 | 63.9 |
| 09-08-2018 | 65.7 | 61.1 |
| 24-08-2018 | 63.5 | 61.7 |
| 06-09-2018 | 65.1 | 63.7 |
| 21-09-2018 | 64.6 | 62.9 |
| 06-10-2018 | 64.2 | 62.9 |
| 24-10-2018 | 65.8 | 63.2 |
| 08-11-2018 | 65.6 | 63.1 |
| 23-11-2018 | 65.8 | 63.2 |
| 07-12-2018 | 65.9 | 62.7 |
| 21-12-2018 | 65.8 | 63.2 |
| 14-01-2019 | 64.8 | 62.2 |
| 22-01-2019 | 63.7 | 63.2 |
| 08-02-2019 | 68.2 | 65.6 |
| 20-02-2019 | 64.6 | 62.9 |
| 11-03-2019 | 65.7 | 63.1 |
| 27-03-2019 | 64.6 | 62.1 |
| Brief Statistic | Day | Night |
| MIN | 60.2 | 58.7 |
| MAX | 68.2 | 65.6 |
| MEAN | 64.91 | 62.85 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near West Sump JNC

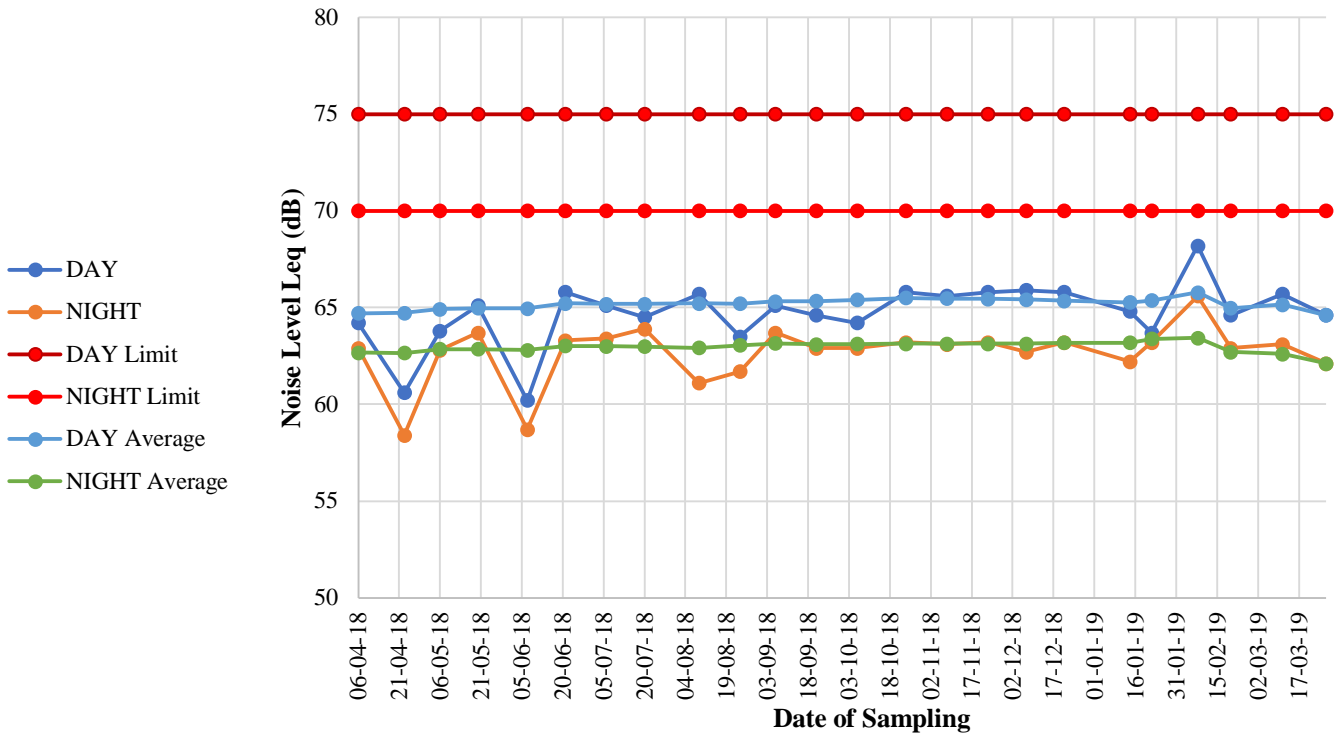


Table:93

Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: On backfill, near reject dump yard

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 65.3 | 63.7 |
| 20/04/18 | 65.4 | 62.8 |
| 08/05/18 | 67.4 | 65.9 |
| 16/05/18 | 65.8 | 64.3 |
| 04/06/18 | 60.7 | 62.4 |
| 18/06/18 | 67.3 | 66.1 |
| 03/07/18 | 65.8 | 64.5 |
| 17/07/18 | 65.9 | 64.7 |
| 06/08/18 | 65.6 | 62.6 |
| 20/08/18 | 64.4 | 63.1 |
| 03/09/18 | 65.8 | 64.3 |
| 18/09/18 | 64.5 | 62.9 |
| 03/10/18 | 65.3 | 63.7 |
| 15/10/18 | 67.2 | 65 |
| 05/11/18 | 66.8 | 65.1 |
| 19/11/18 | 67.6 | 57.2 |
| 04/12/18 | 65.9 | 61.7 |
| 18/12/18 | 67.7 | 65.2 |
| 12/01/19 | 66.2 | 58.7 |
| 29/01/19 | 62.4 | 60.2 |
| 05/02/19 | 67.9 | 65.2 |
| 16/02/19 | 64.5 | 62.9 |
| 06/03/19 | 70.4 | 66.4 |
| 25/03/19 | 60.9 | 65.3 |
| Brief Statistic | Day | Night |
| Minimum | 60.7 | 57.2 |
| Maximum | 70.4 | 66.4 |
| Mean | 65.9 | 63.4 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Backfield Area

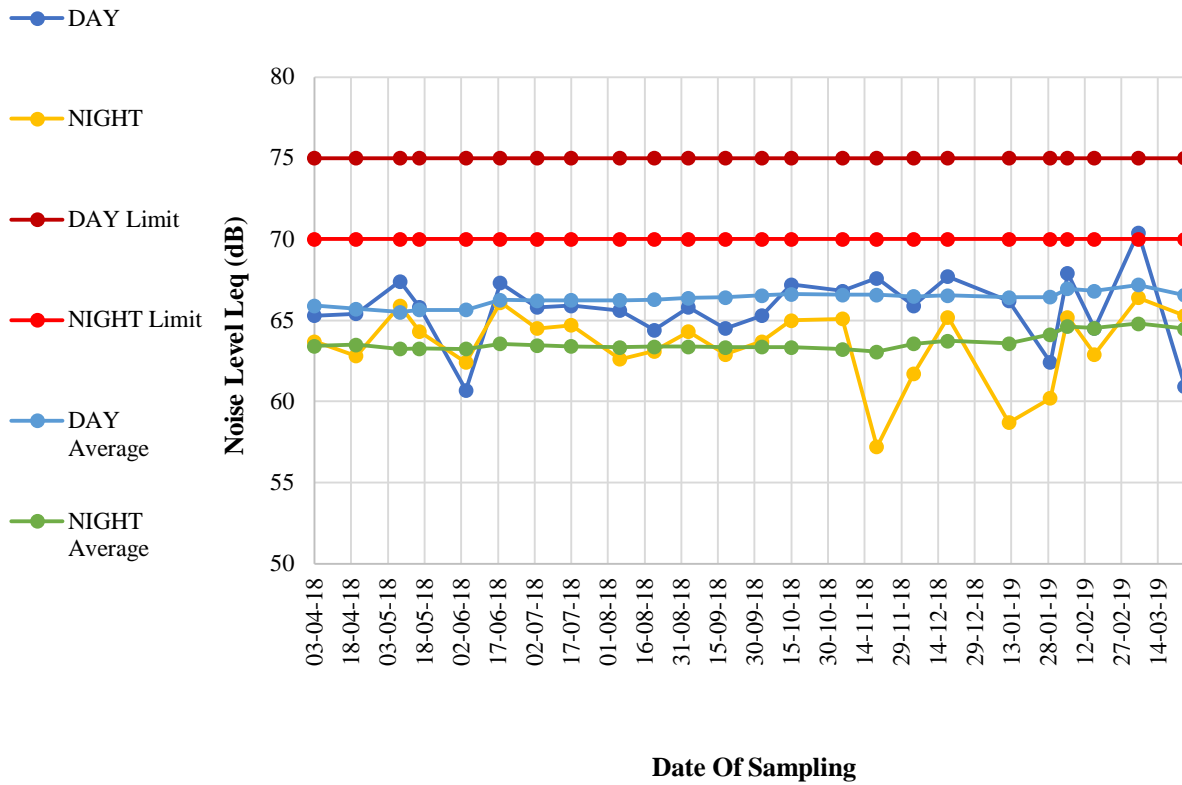


Table:94

Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Project Office, Balram OCP

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 63.9 | 61.7 |
| 20/04/18 | 65.8 | 59.8 |
| 08/05/18 | 63.6 | 62.5 |
| 22/05/18 | 64.2 | 61.7 |
| 09/06/18 | 62.3 | 61.8 |
| 23/06/18 | 64.3 | 62.5 |
| 09/07/18 | 63.2 | 61.8 |
| 23/07/18 | 63.2 | 60.1 |
| 11/08/18 | 62.5 | 61.8 |
| 26/08/18 | 62.4 | 60.9 |
| 03/09/18 | 64.2 | 61.7 |
| 24/09/18 | 63.5 | 62.1 |
| 09/10/18 | 63.2 | 61.8 |
| 25/10/18 | 63.1 | 60.4 |
| 11/11/18 | 63.1 | 60.6 |
| 19/11/18 | 63.5 | 61.2 |
| 11/12/18 | 64.7 | 57.2 |
| 25/12/18 | 63.1 | 60.4 |
| 15/01/19 | 62.1 | 59.4 |
| 29/01/19 | 65.7 | 64.5 |
| 05/02/19 | 65.1 | 62.6 |
| 16/02/19 | 63 | 61.7 |
| 06/03/19 | 63.8 | 62.2 |
| 21/03/19 | 63.8 | 62.2 |
| Brief Statistic | Day | Night |
| Minimum | 62.1 | 57.2 |
| Maximum | 65.8 | 64.5 |
| Mean | 63.6 | 61.4 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Project Office, Balram OCP

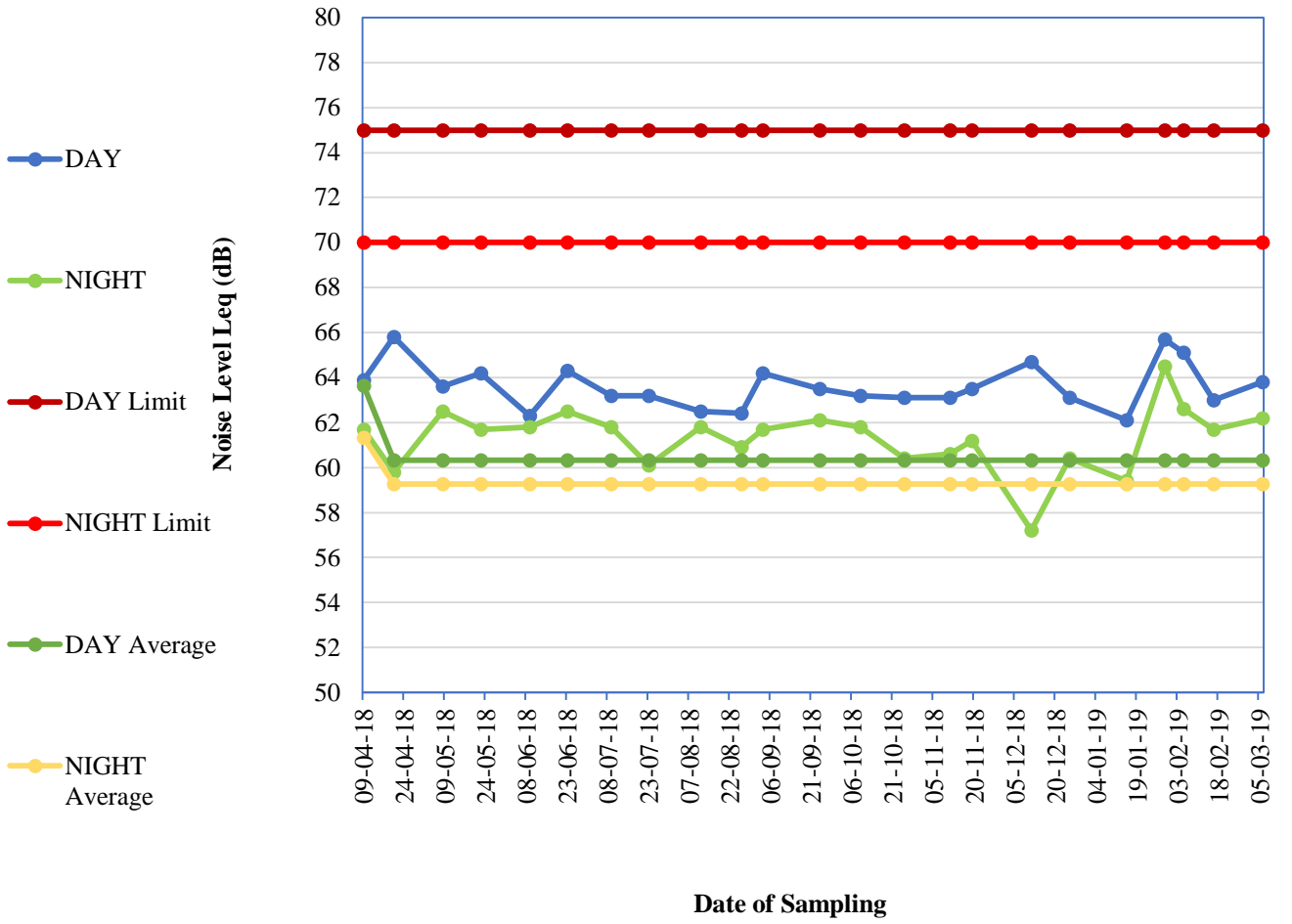


Table:95

Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near View point(A4)

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 65.1 | 62.7 |
| 20/04/18 | 64.8 | 62.4 |
| 08/05/18 | 66.8 | 65.6 |
| 22/05/18 | 64.9 | 62.2 |
| 09/06/18 | 60.7 | 58.7 |
| 23/06/18 | 66.7 | 65.2 |
| 09/07/18 | 65.7 | 62.6 |
| 23/07/18 | 66.2 | 64.7 |
| 11/08/18 | 64 | 62.5 |
| 26/08/18 | 64.5 | 63.1 |
| 09/09/18 | 65.9 | 63.6 |
| 24/09/18 | 65.1 | 63.7 |
| 09/10/18 | 65.1 | 62.7 |
| 25/10/18 | 66.2 | 64.7 |
| 11/11/18 | 66.5 | 64.5 |
| 25/11/18 | 66.2 | 64.5 |
| 11/12/18 | 67.6 | 60.4 |
| 25/12/18 | 66.2 | 64.7 |
| 15/01/19 | 65.2 | 64.3 |
| 29/01/19 | 65.9 | 65.2 |
| 11/02/19 | 64.1 | 62.8 |
| 22/02/19 | 65.1 | 63.7 |
| 12/03/19 | 62.9 | 59.8 |
| 28/03/19 | 63.9 | 60.4 |
| Brief Statistic | Day | Night |
| Minimum | 60.7 | 58.7 |
| Maximum | 67.6 | 65.6 |
| Mean | 65.2 | 63.1 |
| Noise Standard | 75 | 70 |

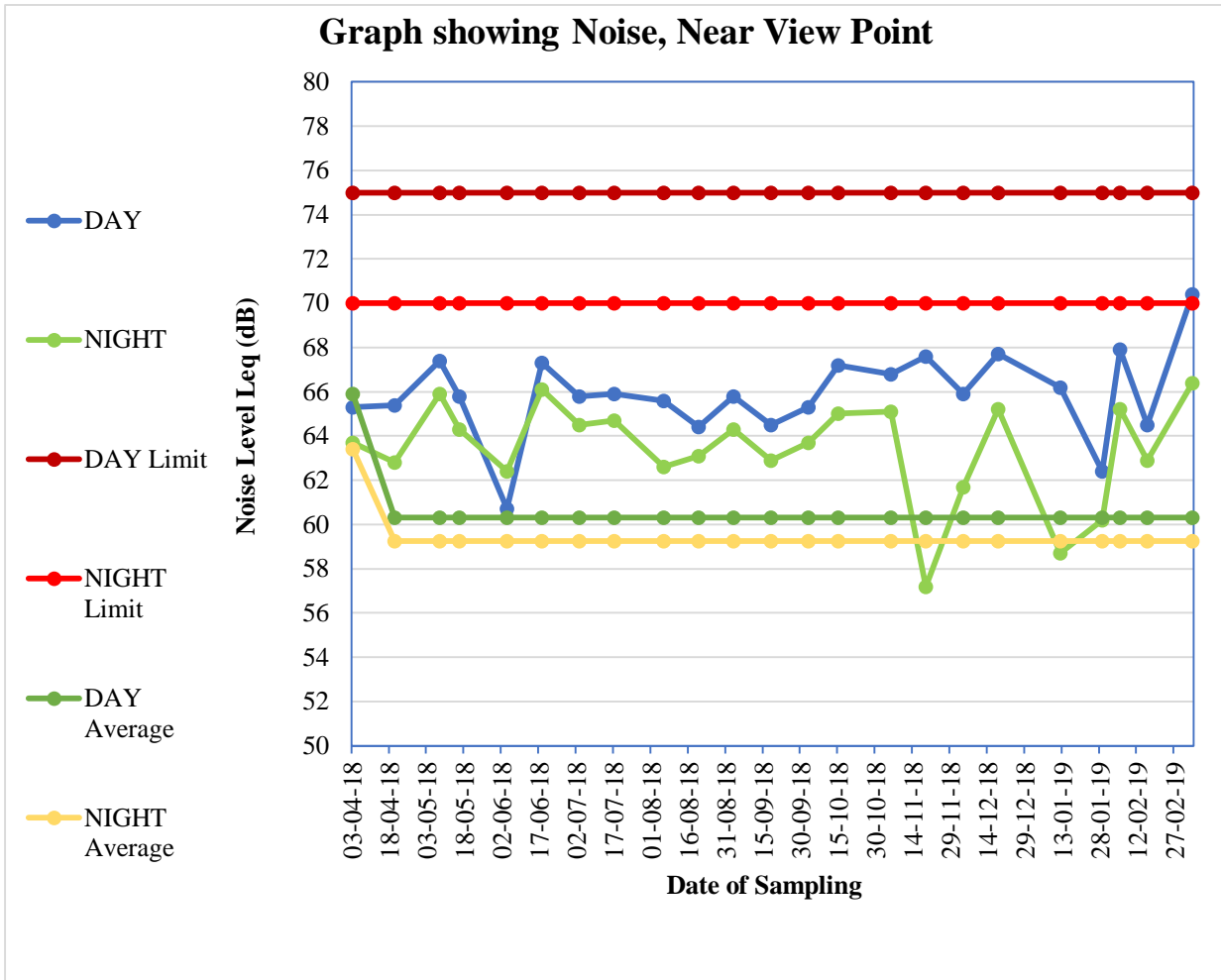


Table:96

Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Near civil maintenance office of Kalinga Colony/PF

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 62.3 | 60.5 |
| 21/04/18 | 60.2 | 56.4 |
| 08/05/18 | 62.4 | 56.4 |
| 22/05/18 | 61.2 | 57.4 |
| 09/06/18 | 60.3 | 59.7 |
| 23/06/18 | 61.3 | 60 |
| 09/07/18 | 61.2 | 57.2 |
| 23/07/18 | 62.4 | 60.1 |
| 11/08/18 | 63.3 | 60.1 |
| 26/08/18 | 61.2 | 59.5 |
| 09/09/18 | 61.2 | 57.4 |
| 24/09/18 | 62.1 | 58.4 |
| 09/10/18 | 62.3 | 60.5 |
| 25/10/18 | 62.5 | 60.9 |
| 11/11/18 | 62.7 | 61 |
| 25/11/18 | 62.4 | 60.3 |
| 04/12/18 | 65.6 | 55.8 |
| 18/12/18 | 62.5 | 60.8 |
| 15/01/19 | 61.5 | 59.9 |
| 29/01/19 | 67.9 | 65.7 |
| 11/02/19 | 60.2 | 61.2 |
| 22/02/19 | 62.1 | 58.4 |
| 12/03/19 | 55.4 | 54.9 |
| 28/03/19 | - | - |
| Brief Statistic | Day | Night |
| Minimum | 55.4 | 54.9 |
| Maximum | 67.9 | 65.7 |
| Mean | 61.9 | 59.2 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near civil maintenance office of Kalinga Colony/PF

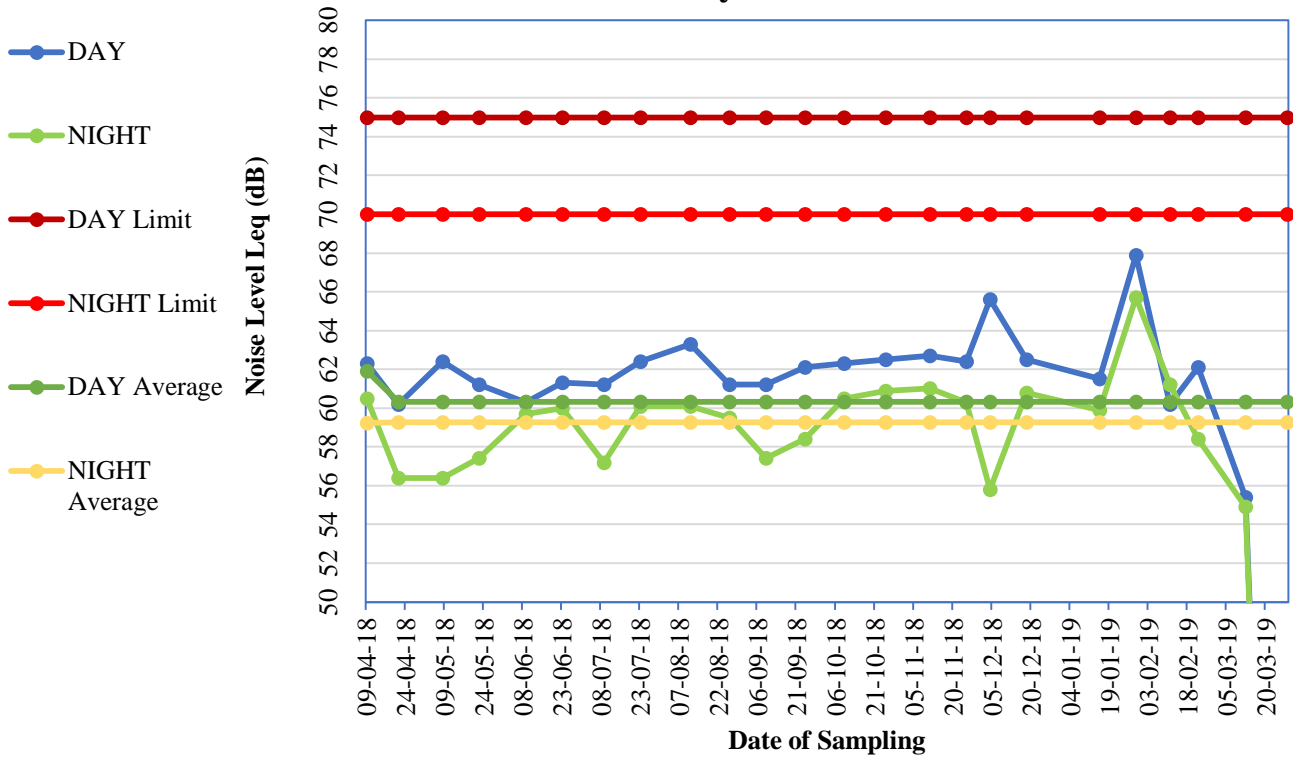


Table:97

Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: Padmabatipur Village

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 60.9 | 57.4 |
| 20/04/18 | 58.4 | 55 |
| 03/05/18 | 59.8 | 58.4 |
| 16/05/18 | 60.6 | 57.9 |
| 04/06/18 | 59.6 | 58.6 |
| 18/06/18 | 59.7 | 57.4 |
| 03/07/18 | 60.6 | 57.9 |
| 17/07/18 | 60.3 | 58.7 |
| 06/08/18 | 61.9 | 56.2 |
| 20/08/18 | 60.6 | 57.5 |
| 03/09/18 | 65.8 | 57.1 |
| 18/09/18 | 59.9 | 57.6 |
| 03/10/18 | 60.9 | 57.2 |
| 15/10/18 | 61.4 | 59.7 |
| 05/11/18 | 61.5 | 59.7 |
| 19/11/18 | 61.2 | 55.2 |
| 04/12/18 | 64.8 | 60.1 |
| 18/12/18 | 61.4 | 59.7 |
| 12/01/19 | 60.4 | 58.7 |
| 29/01/19 | 62.7 | 60.5 |
| 05/02/19 | 60.2 | 57.6 |
| 16/02/19 | 59.9 | 57.6 |
| 06/03/19 | 58.9 | 54.2 |
| 21/03/19 | 59.1 | 63.9 |
| Brief Statistic | Day | Night |
| Minimum | 58.4 | 54.2 |
| Maximum | 65.8 | 63.9 |
| Mean | 60.9 | 58.1 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Padmabatipur Village

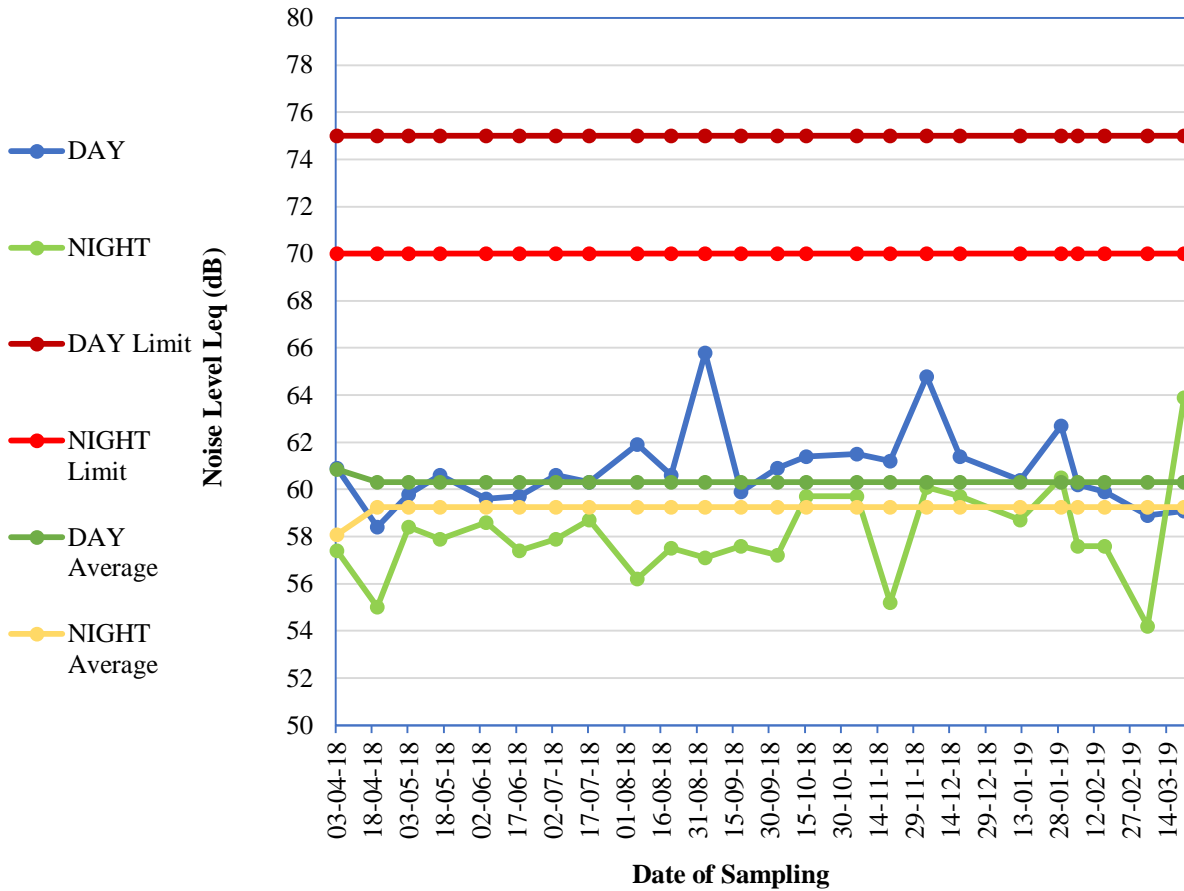


Table:98

Area: Bharatpur
Project: Chhendipada OCP
Monitoring Station: Near Weigh Bridge

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 61.9 | 60.3 |
| 18/04/18 | 64.8 | 60.8 |
| 03/05/18 | 57.3 | 55 |
| 16/05/18 | 60.9 | 56.9 |
| 04/06/18 | 61.4 | 56.4 |
| 18/06/18 | 62.4 | 58.1 |
| 03/07/18 | 60.7 | 57.6 |
| 17/07/18 | 61.5 | 58.7 |
| 06/08/18 | 61.9 | 57.3 |
| 20/08/18 | 61.7 | 58.1 |
| 03/09/18 | 60.9 | 56.9 |
| 18/09/18 | 62.7 | 58.7 |
| 03/10/18 | 61.9 | 60.5 |
| 15/10/18 | 62.4 | 60.1 |
| 05/11/18 | 62.2 | 60.1 |
| 19/11/18 | 62.4 | 60.1 |
| 04/12/18 | 60.7 | 59.5 |
| 18/12/18 | 62.4 | 60.1 |
| 18/12/18 | 62.4 | 60.1 |
| 12/01/19 | 62.2 | 59.8 |
| 29/01/19 | 63.1 | 60.2 |
| 05/02/19 | 62.3 | 58.9 |
| 16/02/19 | 62.7 | 58.7 |
| 06/03/19 | 58.5 | 55.6 |
| 21/03/19 | 57.6 | 56.4 |
| Brief Statistic | Day | Night |
| Minimum | 57.3 | 55 |
| Maximum | 64.8 | 60.8 |
| Mean | 61.6 | 58.6 |
| Noise Standard | 75 | 70 |

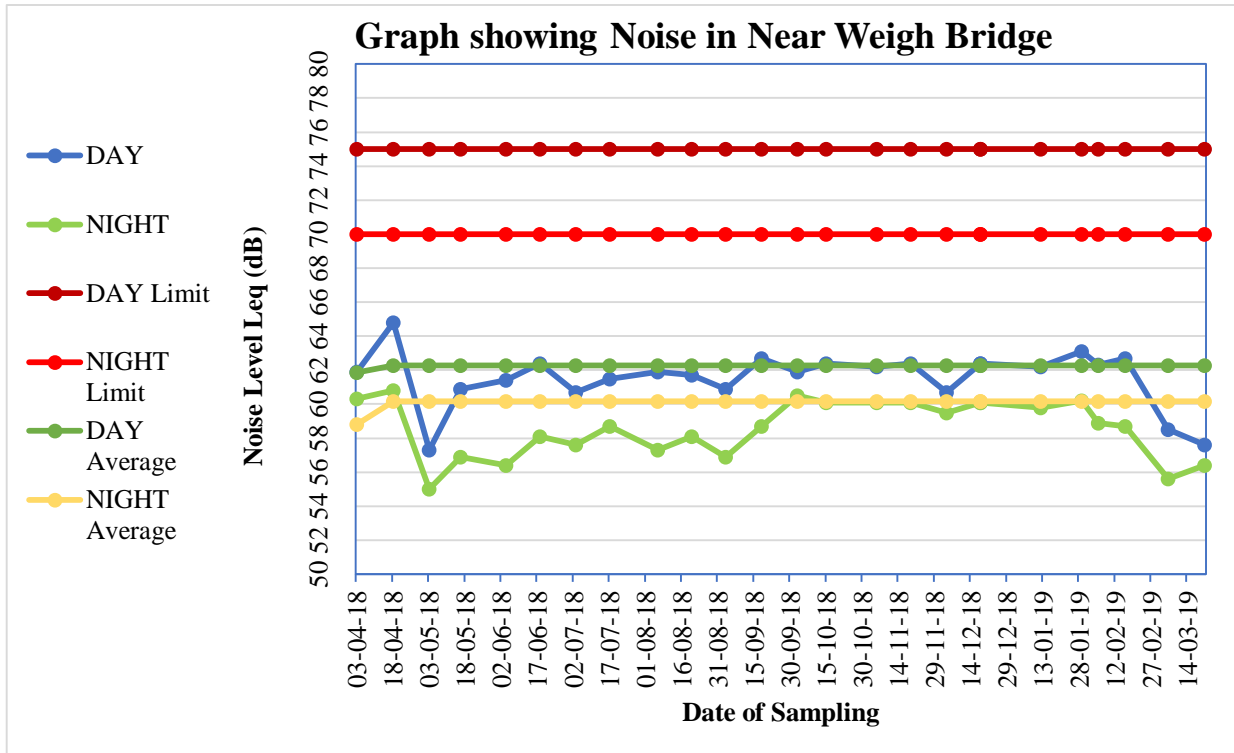


Table:99

Area: Bharatpur
Project: Chhendipada OCP
Monitoring Station: Near Site Office

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 62.4 | 59.2 |
| 18/04/18 | 61.4 | 57.9 |
| 03/05/18 | 59.4 | 56.4 |
| 16/05/18 | 62.1 | 59.3 |
| 04/06/18 | 58.2 | 58.6 |
| 18/06/18 | 61.7 | 59.2 |
| 03/07/18 | 62 | 59.5 |
| 17/07/18 | 62.4 | 59.2 |
| 06/08/18 | 62.2 | 58.2 |
| 20/08/18 | 60.3 | 57.2 |
| 03/09/18 | 60.2 | 60 |
| 18/09/18 | 60 | 57.9 |
| 03/10/18 | 62.4 | 60.3 |
| 15/10/18 | 61.2 | 58.2 |
| 05/11/18 | 61.4 | 58.4 |
| 19/11/18 | 61.2 | 58.2 |
| 04/12/18 | 62.7 | 57.9 |
| 18/12/18 | 61.3 | 58.2 |
| 12/01/19 | 60.2 | 57.9 |
| 29/01/19 | 60.3 | 56.9 |
| 05/02/19 | 60.2 | 59.4 |
| 16/02/19 | 60 | 57.9 |
| 06/03/19 | 56.4 | 55.8 |
| 21/03/19 | 55.5 | 53.6 |
| Brief Statistic | Day | Night |
| Minimum | 55.5 | 53.6 |
| Maximum | 62.7 | 60.3 |
| Mean | 60.6 | 58.1 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near Site Office

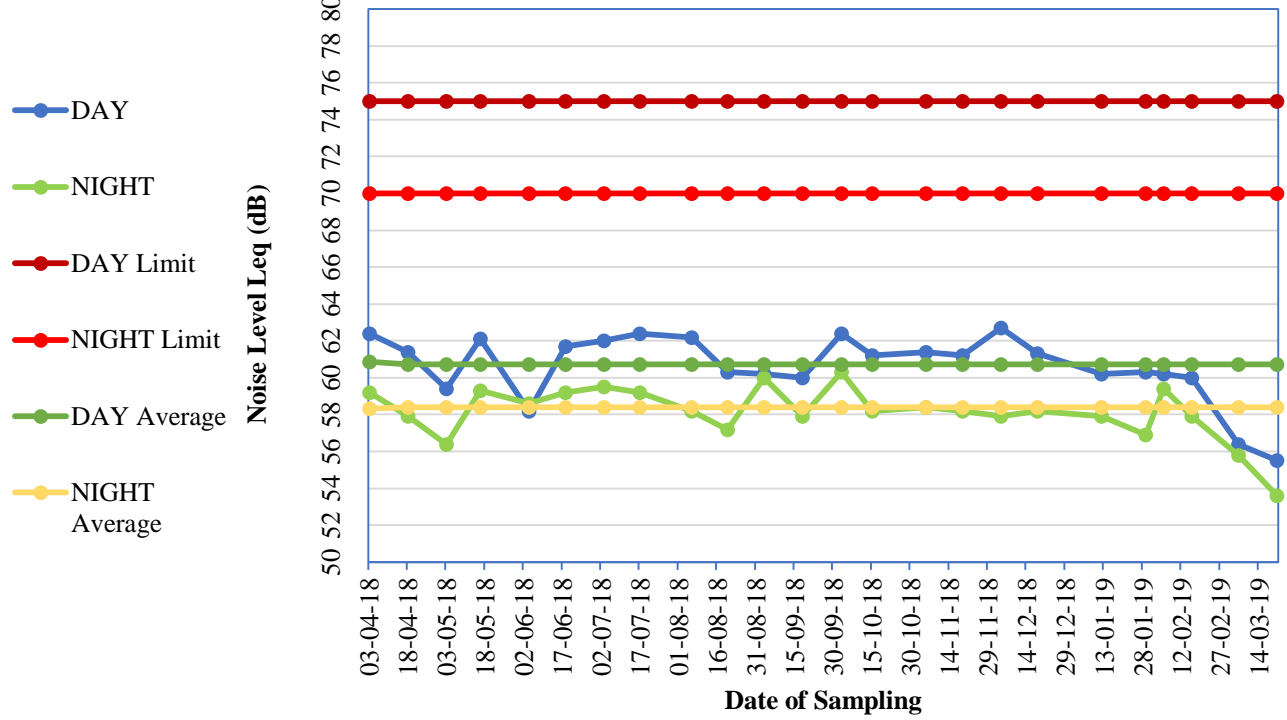


Table:100

Area: Bharatpur
Project: Chhendipada OCP
Monitoring Station: Near Mine Working

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 60.6 | 57.2 |
| 18/04/18 | 60.3 | 58.4 |
| 03/05/18 | 58.3 | 57.1 |
| 16/05/18 | 61.4 | 57.2 |
| 04/06/18 | 59.6 | 57.8 |
| 18/06/18 | 60.1 | 57.3 |
| 03/07/18 | 61.4 | 56.5 |
| 17/07/18 | 60.3 | 57.3 |
| 06/08/18 | 60.6 | 57.2 |
| 20/08/18 | 59.5 | 57.4 |
| 03/09/18 | 61.4 | 57.2 |
| 18/09/18 | 61.2 | 58.2 |
| 03/10/18 | 60.6 | 60.6 |
| 15/10/18 | 60.3 | 57.4 |
| 05/11/18 | 60.3 | 57.4 |
| 19/11/18 | 60.5 | 58.2 |
| 04/12/18 | 60.1 | 61.6 |
| 18/12/18 | 60.3 | 57.4 |
| 12/01/19 | 59.3 | 57.4 |
| 29/01/19 | 61.4 | 59.7 |
| 05/02/19 | 60.7 | 57.2 |
| 16/02/19 | 61.2 | 58.2 |
| 06/03/19 | 50.9 | 49.4 |
| 21/03/19 | 51.9 | 50.5 |
| Brief Statistic | Day | Night |
| Minimum | 50.9 | 49.4 |
| Maximum | 61.4 | 61.6 |
| Mean | 59.7 | 57.2 |
| Noise Standard | 75 | 70 |

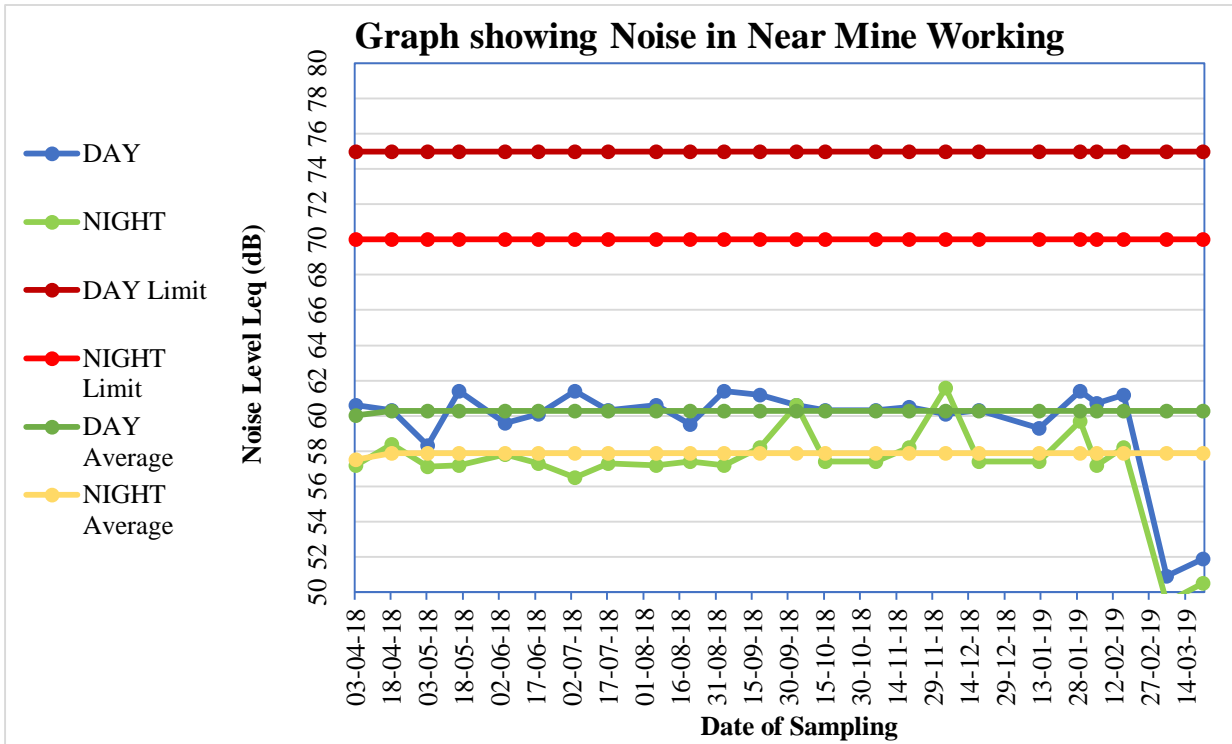


Table:101

Area: Lingraj
Project: Lingraj OCP
Monitoring Station: Near CT Road (Lingaraj to Dera)

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 62.3 | 60.8 |
| 18/04/18 | 62.2 | 60.8 |
| 08/05/18 | 59.3 | 57.4 |
| 22/05/18 | 63.5 | 61.4 |
| 09/06/18 | 60.1 | 59.3 |
| 23/06/18 | 61.2 | 58.4 |
| 09/07/18 | 63.5 | 61.2 |
| 23/07/18 | 62.1 | 60.3 |
| 11/08/18 | 65.9 | 60.6 |
| 20/08/18 | 61.3 | 59 |
| 09/09/18 | 62.5 | 60.2 |
| 24/09/18 | 62.7 | 60.3 |
| 09/10/18 | 62.4 | 60.8 |
| 25/10/18 | 61.9 | 59.7 |
| 11/11/18 | 62.1 | 59.6 |
| 25/11/18 | 60.6 | 58.2 |
| 11/12/18 | 62.9 | 56.3 |
| 25/12/18 | 62.1 | 59.8 |
| 15/01/19 | 60.9 | 59.7 |
| 22/01/19 | 60.8 | 60.3 |
| 11/02/19 | 62.5 | 59.1 |
| 22/02/19 | 62.7 | 60.3 |
| 12/03/19 | 59.4 | 56.9 |
| 28/03/19 | 61.1 | 60.9 |
| Brief Statistic | Day | Night |
| Minimum | 59.3 | 56.3 |
| Maximum | 65.9 | 61.4 |
| Mean | 61.9 | 59.6 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near CT Road (Lingaraj to Dera)

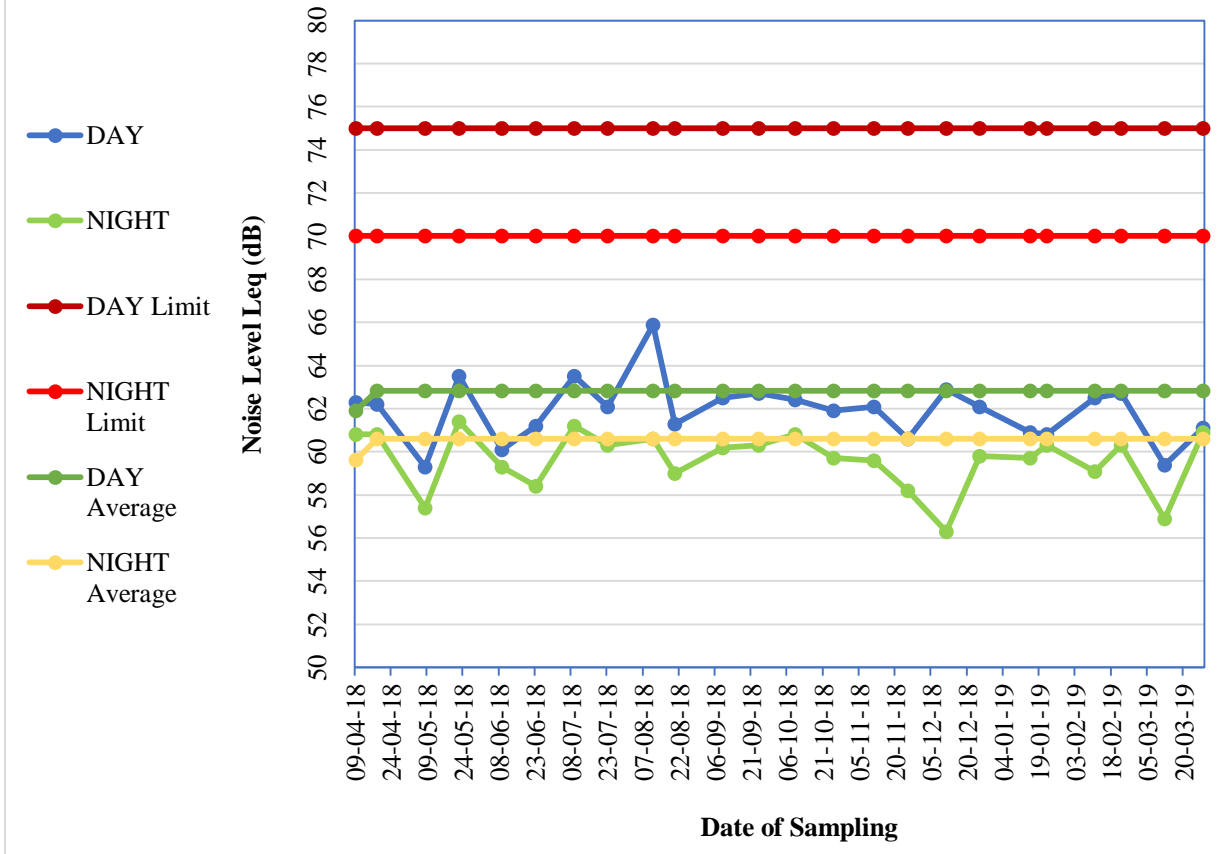


Table:102

Area: Lingraj
Project: Lingraj OCP
Monitoring Station: Near South side of mine

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 18/04/18 | 60.8 | 58.7 |
| 08/05/18 | 62.1 | 59.4 |
| 22/05/18 | 61.9 | 58.9 |
| 09/06/18 | 59.7 | 57.6 |
| 23/06/18 | 60.5 | 59.1 |
| 09/07/18 | 61.7 | 57.6 |
| 23/07/18 | 61.5 | 58.2 |
| 11/08/18 | 61.8 | 56.2 |
| 20/08/18 | 60.4 | 57.3 |
| 09/09/18 | 61.2 | 56.6 |
| 24/09/18 | 60.2 | 57.2 |
| 09/10/18 | 60.6 | 56.2 |
| 25/10/18 | 62.1 | 58.9 |
| 11/11/18 | 62.2 | 58.6 |
| 25/11/18 | 62.1 | 57.5 |
| 11/12/18 | 62.5 | 54.9 |
| 25/12/18 | 62.1 | 58.9 |
| 15/01/19 | 61.2 | 58.2 |
| 22/01/19 | 62.9 | 61.2 |
| 11/02/19 | 61.7 | 59.8 |
| 22/02/19 | 60.2 | 57.2 |
| 12/03/19 | 60.8 | 58.2 |
| 28/03/19 | 63.5 | 61.4 |
| Brief Statistic | Day | Night |
| Minimum | 59.7 | 54.9 |
| Maximum | 63.5 | 61.4 |
| Mean | 61.5 | 58.2 |
| Noise Standard | 75 | 70 |

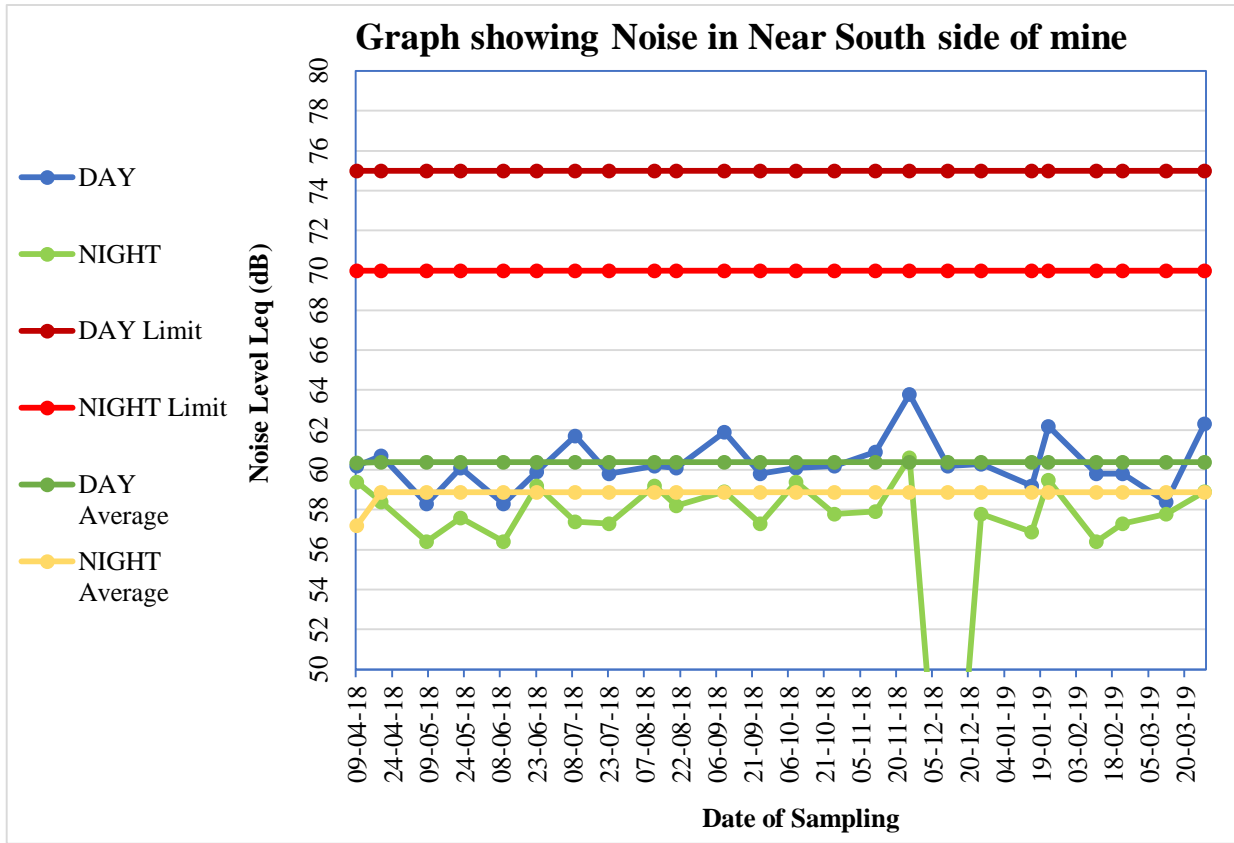


Table:103

Area: Lingraj
Project: Lingraj OCP
Monitoring Station: Near north side of mine

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 60.2 | 59.4 |
| 19/04/18 | 60.7 | 58.4 |
| 08/05/18 | 58.3 | 56.4 |
| 22/05/18 | 60.1 | 57.6 |
| 09/06/18 | 58.3 | 56.4 |
| 23/06/18 | 59.9 | 59.2 |
| 09/07/18 | 61.7 | 57.4 |
| 23/07/18 | 59.8 | 57.3 |
| 11/08/18 | 60.2 | 59.2 |
| 20/08/18 | 60.1 | 58.2 |
| 09/09/18 | 61.9 | 58.9 |
| 24/09/18 | 59.8 | 57.3 |
| 09/10/18 | 60.1 | 59.4 |
| 25/10/18 | 60.2 | 57.8 |
| 11/11/18 | 60.9 | 57.9 |
| 25/11/18 | 63.8 | 60.6 |
| 11/12/18 | 60.2 | 36.8 |
| 25/12/18 | 60.3 | 57.8 |
| 15/01/19 | 59.2 | 56.9 |
| 22/01/19 | 62.2 | 59.5 |
| 11/02/19 | 59.8 | 56.4 |
| 22/02/19 | 59.8 | 57.3 |
| 12/03/19 | 58.4 | 57.8 |
| 28/03/19 | 62.3 | 58.9 |
| Brief Statistic | Day | Night |
| Minimum | 58.3 | 36.8 |
| Maximum | 63.8 | 60.6 |
| Mean | 60.3 | 57.2 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near north side of mine

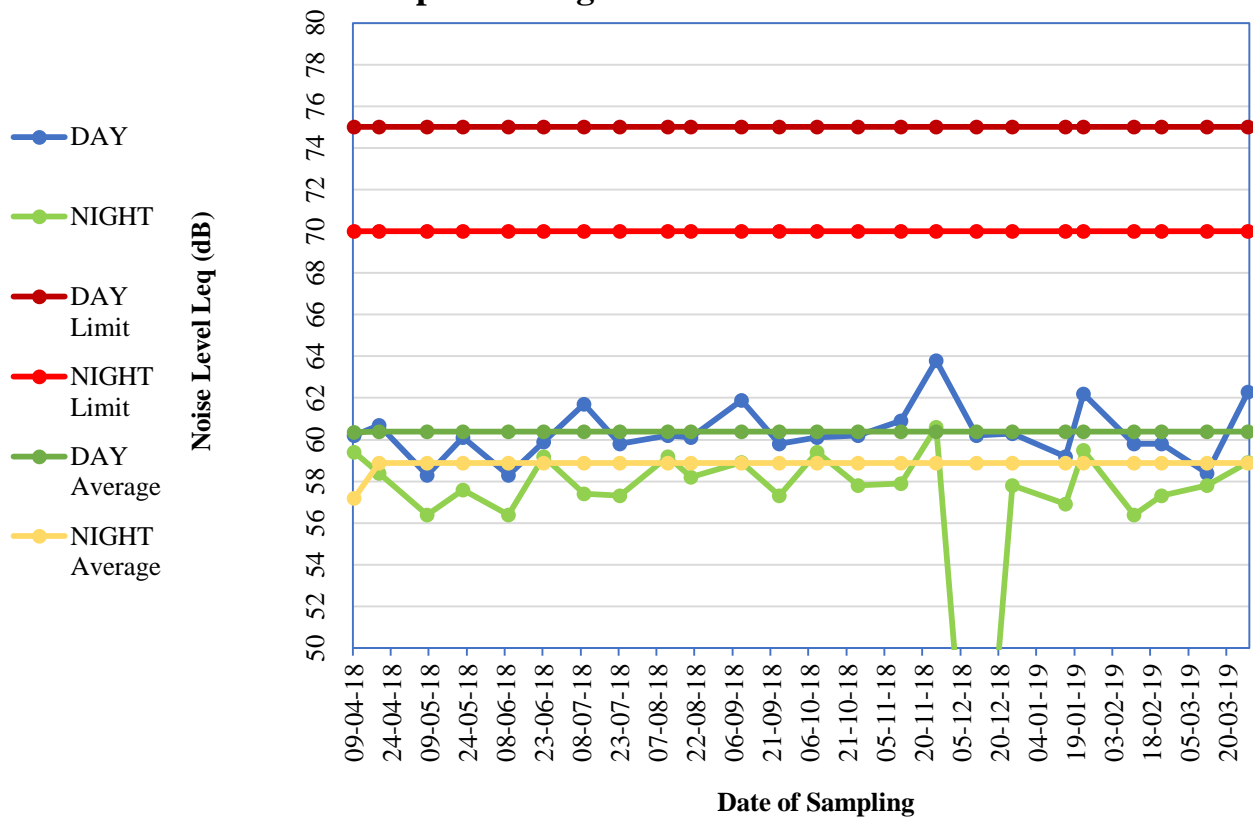


Table:104

Area: Lingraj
Project: Lingraj OCP
Monitoring Station: Lingaraj GM Office

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 62.7 | 60.7 |
| 18/04/18 | 62.5 | 60.4 |
| 08/05/18 | 63.4 | 60.2 |
| 22/05/18 | 62.7 | 60.2 |
| 09/06/18 | 63.5 | 62.4 |
| 23/06/18 | 63.7 | 62.5 |
| 09/07/18 | 62.7 | 60.3 |
| 23/07/18 | 63.8 | 61.3 |
| 11/08/18 | 62.6 | 60.2 |
| 26/08/18 | 62.4 | 60.5 |
| 09/09/18 | 62.7 | 60.2 |
| 24/09/18 | 63.3 | 60.1 |
| 09/10/18 | 62.7 | 59.2 |
| 25/10/18 | 63.4 | 60.7 |
| 11/11/18 | 63.6 | 60.8 |
| 25/11/18 | 63.5 | 60.9 |
| 11/12/18 | 64.3 | 57.4 |
| 25/12/18 | 63.4 | 60.7 |
| 15/01/19 | 62.4 | 59.7 |
| 22/01/19 | 63.5 | 63.2 |
| 11/02/19 | 62.9 | 62 |
| 22/02/19 | 63.3 | 60.1 |
| 12/03/19 | 63.4 | 59.8 |
| 28/03/19 | 62.5 | 59.3 |
| Brief Statistic | Day | Night |
| Minimum | 62.4 | 57.4 |
| Maximum | 64.3 | 63.2 |
| Mean | 63.1 | 60.5 |
| Noise Standard | 75 | 70 |

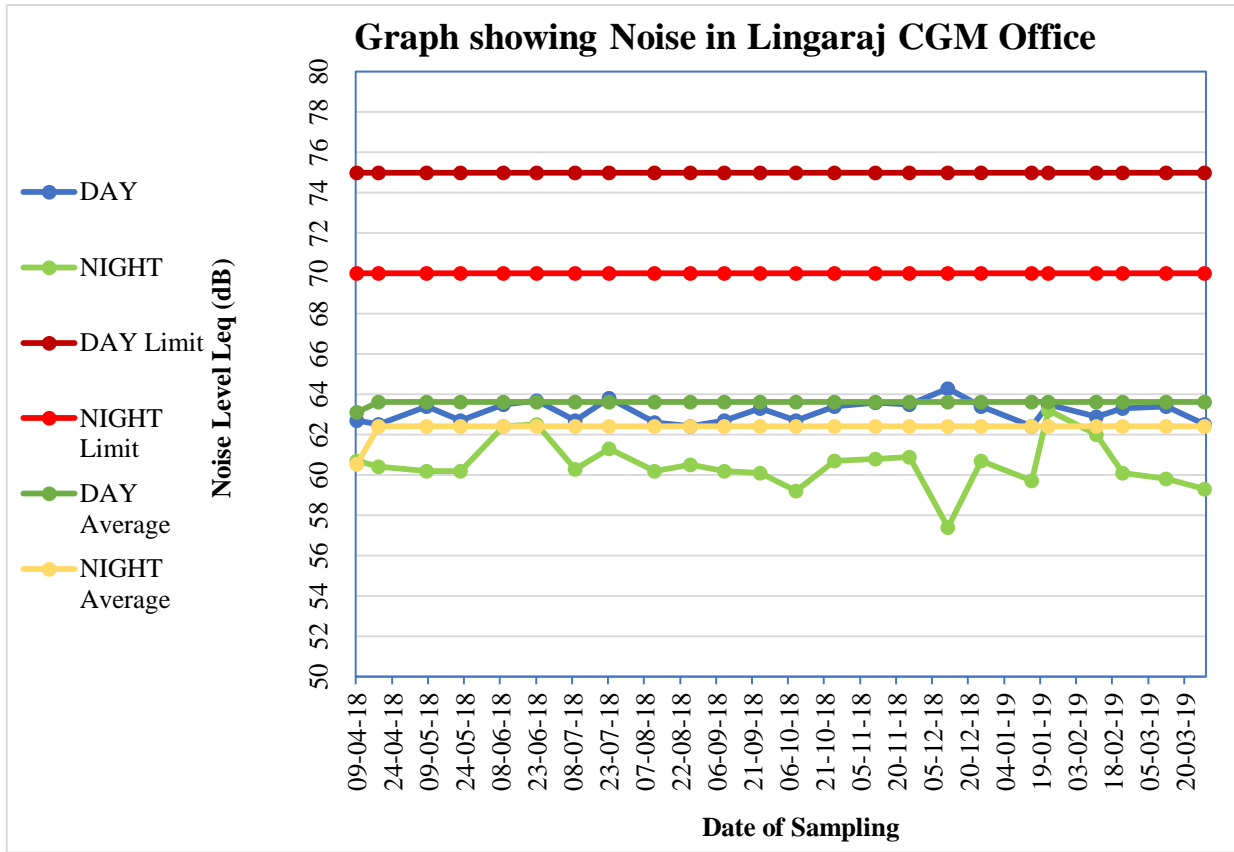


Table:105

Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Site Office

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06/04/18 | 61.4 | 58.7 |
| 21/04/18 | 61.8 | 60.8 |
| 06/05/18 | 62.1 | 59.4 |
| 19/05/18 | 61.9 | 61.1 |
| 07/06/18 | 58.6 | 56.4 |
| 21/06/18 | 63.4 | 61.6 |
| 06/07/18 | 61.9 | 61.2 |
| 20/07/18 | 63.9 | 60.3 |
| 09/08/18 | 60.2 | 58.6 |
| 24/08/18 | 61.6 | 59.5 |
| 06/09/18 | 61.9 | 60.1 |
| 21/09/18 | 63.1 | 60.4 |
| 06/10/18 | 61.4 | 58.5 |
| 24/10/18 | 62.7 | 60 |
| 08/11/18 | 62.8 | 60.2 |
| 23/11/18 | 61.5 | 59.2 |
| 07/12/18 | 63.2 | 62.2 |
| 21/12/18 | 62.7 | 60.2 |
| 14/01/19 | 61.7 | 59.7 |
| 24/01/19 | 63.1 | 61.7 |
| 08/02/19 | 62.6 | 59.7 |
| 20/02/19 | 63.1 | 60.4 |
| 11/03/19 | 61.3 | 58.4 |
| 27/03/19 | 60.2 | 58.2 |
| Brief Statistic | Day | Night |
| Minimum | 58.6 | 56.4 |
| Maximum | 63.9 | 62.2 |
| Mean | 62.0 | 59.9 |
| Noise Standard | 75 | 70 |

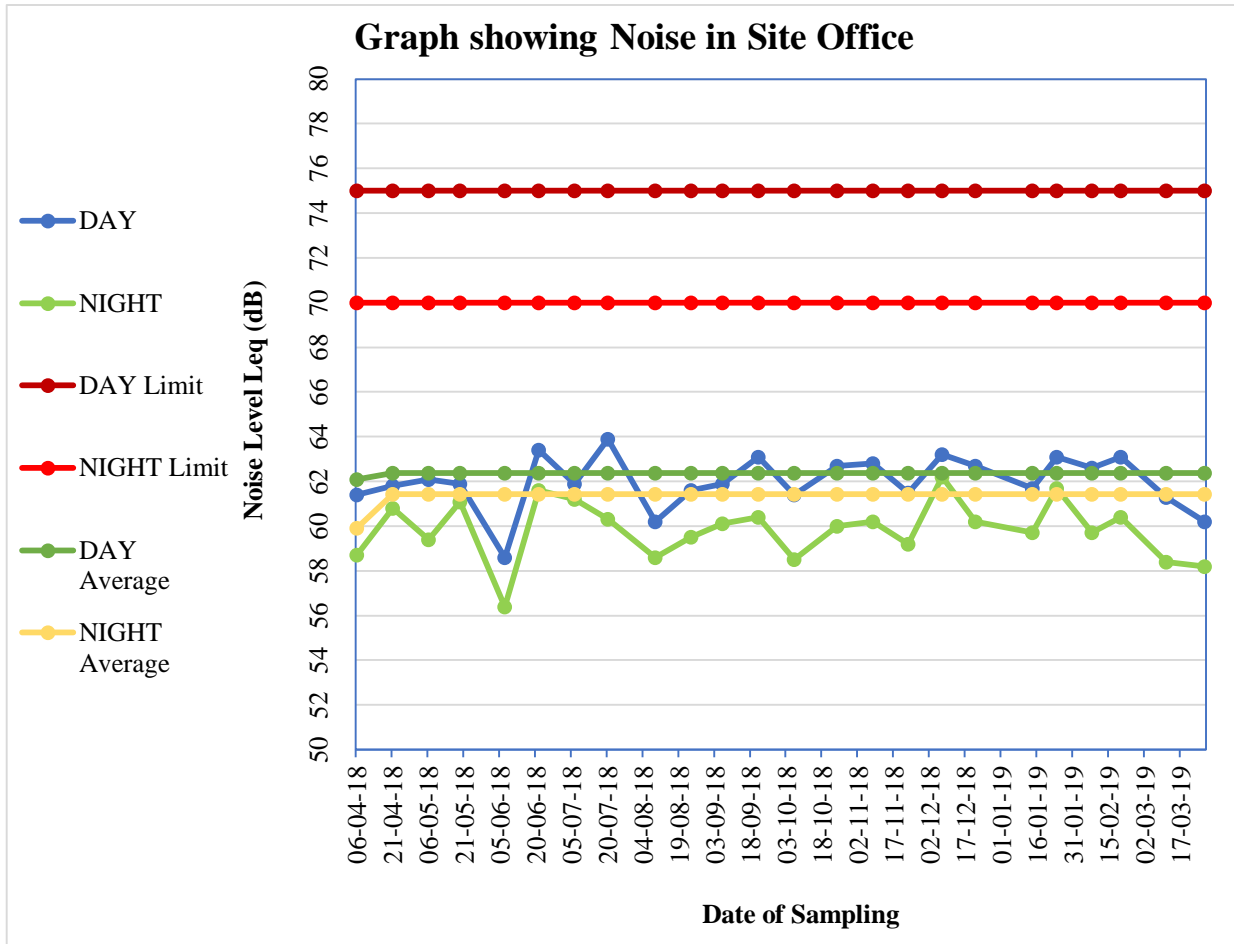


Table:106

Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Telisingha Village

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06/04/18 | 60.9 | 57.9 |
| 21/04/18 | 62.3 | 63.4 |
| 06/05/18 | 59.8 | 57.4 |
| 19/05/18 | 61.5 | 59.4 |
| 07/06/18 | 61.4 | 59.2 |
| 21/06/18 | 61.6 | 59.8 |
| 06/07/18 | 61.5 | 58.4 |
| 20/07/18 | 61.5 | 59.1 |
| 09/08/18 | 60.8 | 57.4 |
| 24/08/18 | 59.6 | 57.2 |
| 06/09/18 | 62.5 | 59.4 |
| 21/09/18 | 60.1 | 58.6 |
| 06/10/18 | 60.9 | 57.4 |
| 24/10/18 | 61.3 | 58.2 |
| 08/11/18 | 61.4 | 58.3 |
| 23/11/18 | 62.5 | 60.5 |
| 07/12/18 | 62.5 | 61.8 |
| 21/12/18 | 61.3 | 58.2 |
| 14/01/19 | 61.5 | 60.1 |
| 24/01/19 | 63.7 | 60.5 |
| 08/02/19 | 60.3 | 60.9 |
| 20/02/19 | 60.1 | 58.6 |
| 11/03/19 | 58.4 | 56.3 |
| 27/03/19 | 59.9 | 59.3 |
| Brief Statistic | Day | Night |
| Minimum | 58.4 | 56.3 |
| Maximum | 63.7 | 63.4 |
| Mean | 61.1 | 59.1 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Telisingha Village

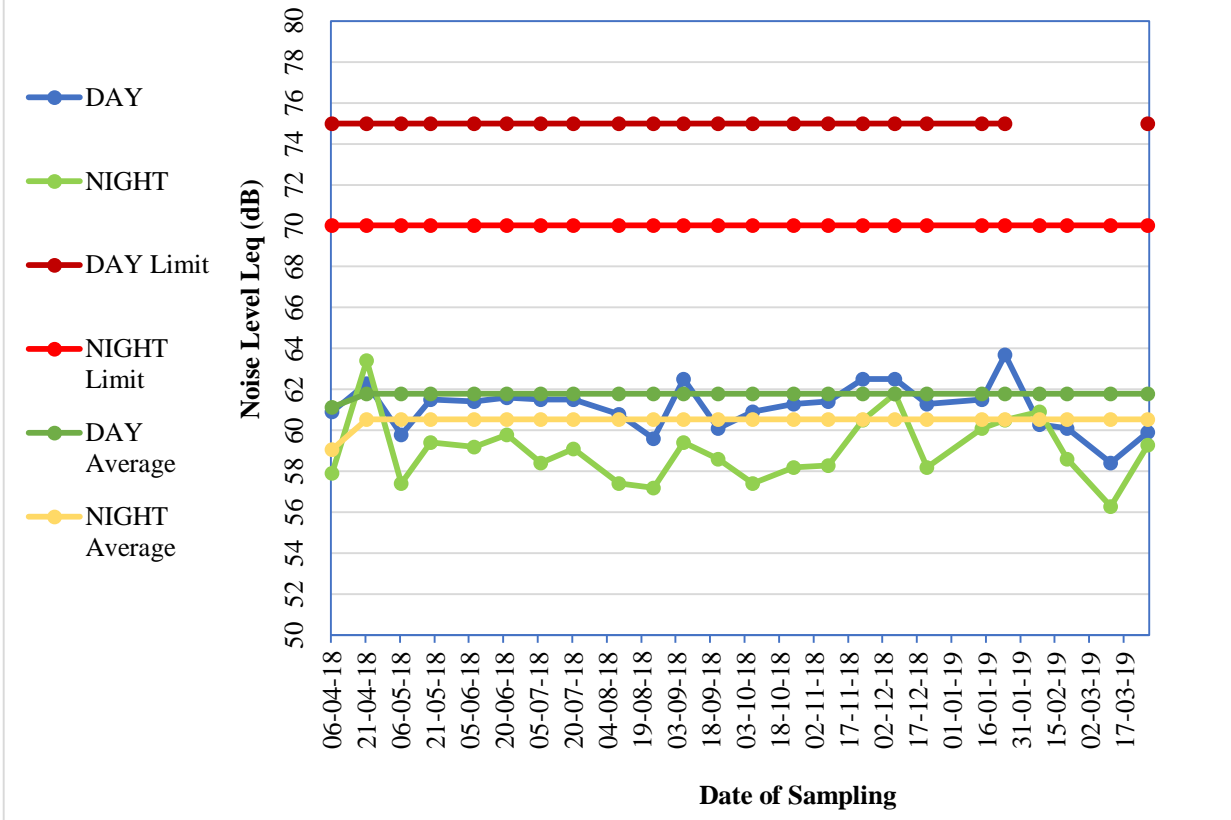


Table:107

Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Patharmunda Village

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06/04/18 | 62.3 | 60.5 |
| 21/04/18 | 63.7 | 57.5 |
| 06/05/18 | 58.4 | 56.8 |
| 19/05/18 | 62.1 | 60.2 |
| 07/06/18 | 59.4 | 57.4 |
| 21/06/18 | 62.7 | 60.3 |
| 06/07/18 | 62.1 | 60.2 |
| 20/07/18 | 62.7 | 58.9 |
| 09/08/18 | 62.3 | 60.5 |
| 24/08/18 | 60.3 | 58.1 |
| 06/09/18 | 62.1 | 60.2 |
| 21/09/18 | 62.3 | 59.1 |
| 06/10/18 | 62.3 | 60.5 |
| 24/10/18 | 62.5 | 60.3 |
| 08/11/18 | 62.6 | 60.1 |
| 23/11/18 | 62 | 61.2 |
| 07/12/18 | 63.1 | 59.7 |
| 21/12/18 | 62.5 | 60.3 |
| 21/12/18 | 62.5 | 60.3 |
| 14/01/19 | 62.1 | 59.8 |
| 24/01/19 | 61.9 | 60.2 |
| 08/02/19 | 58.8 | 57.6 |
| 20/02/19 | 62.3 | 59.1 |
| 11/03/19 | 60.4 | 57.6 |
| 27/03/19 | 61.2 | 59.9 |
| Brief Statistic | Day | Night |
| Minimum | 58.4 | 56.8 |
| Maximum | 63.7 | 61.2 |
| Mean | 61.8 | 59.5 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Patharmunda Village

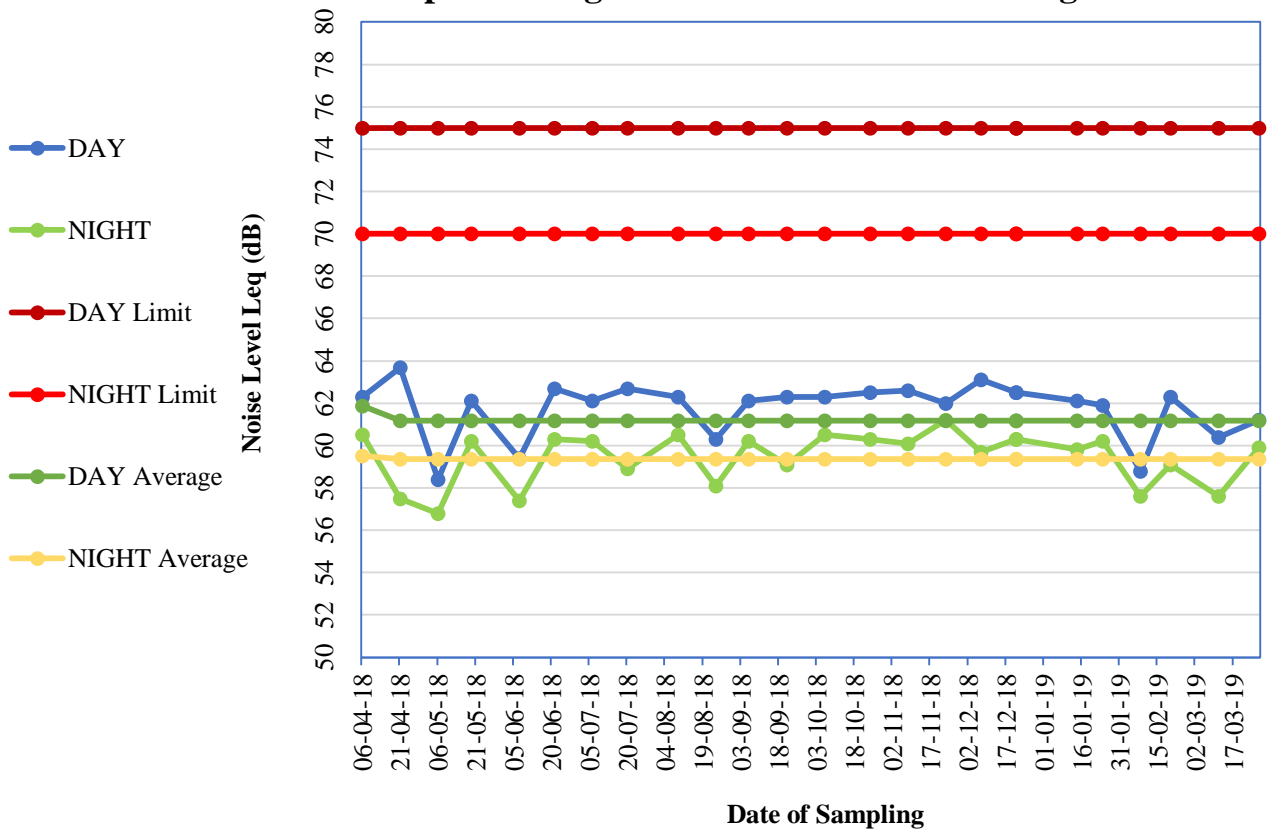


Table:108

Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Near Jarda village

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06/04/18 | 61.7 | 57.7 |
| 21/04/18 | 60.5 | 58.4 |
| 06/05/18 | 63.4 | 62 |
| 19/05/18 | 60.3 | 58.5 |
| 07/06/18 | 60.2 | 58.4 |
| 21/06/18 | 63.5 | 61.3 |
| 06/07/18 | 60.4 | 57.6 |
| 20/07/18 | 63.2 | 60.3 |
| 09/08/18 | 61.7 | 57.8 |
| 24/08/18 | 59.9 | 57.3 |
| 06/09/18 | 60.3 | 58.5 |
| 21/09/18 | 61.4 | 59.5 |
| 06/10/18 | 61.7 | 57.6 |
| 24/10/18 | 63.1 | 59.4 |
| 08/11/18 | 63.2 | 59.3 |
| 23/11/18 | 64.6 | 62.5 |
| 07/12/18 | 62.9 | 60.1 |
| 21/12/18 | 63.1 | 59.4 |
| 14/01/19 | 62.5 | 58.4 |
| 24/01/19 | 62.5 | 61.4 |
| 08/02/19 | 60.8 | 63.5 |
| 20/02/19 | 61.4 | 59.5 |
| 11/03/19 | 58.9 | 54.8 |
| 27/03/19 | 57 | 55.2 |
| Brief Statistic | Day | Night |
| Minimum | 57 | 54.8 |
| Maximum | 64.6 | 63.5 |
| Mean | 61.6 | 59.1 |
| Noise Standard | 75 | 70 |

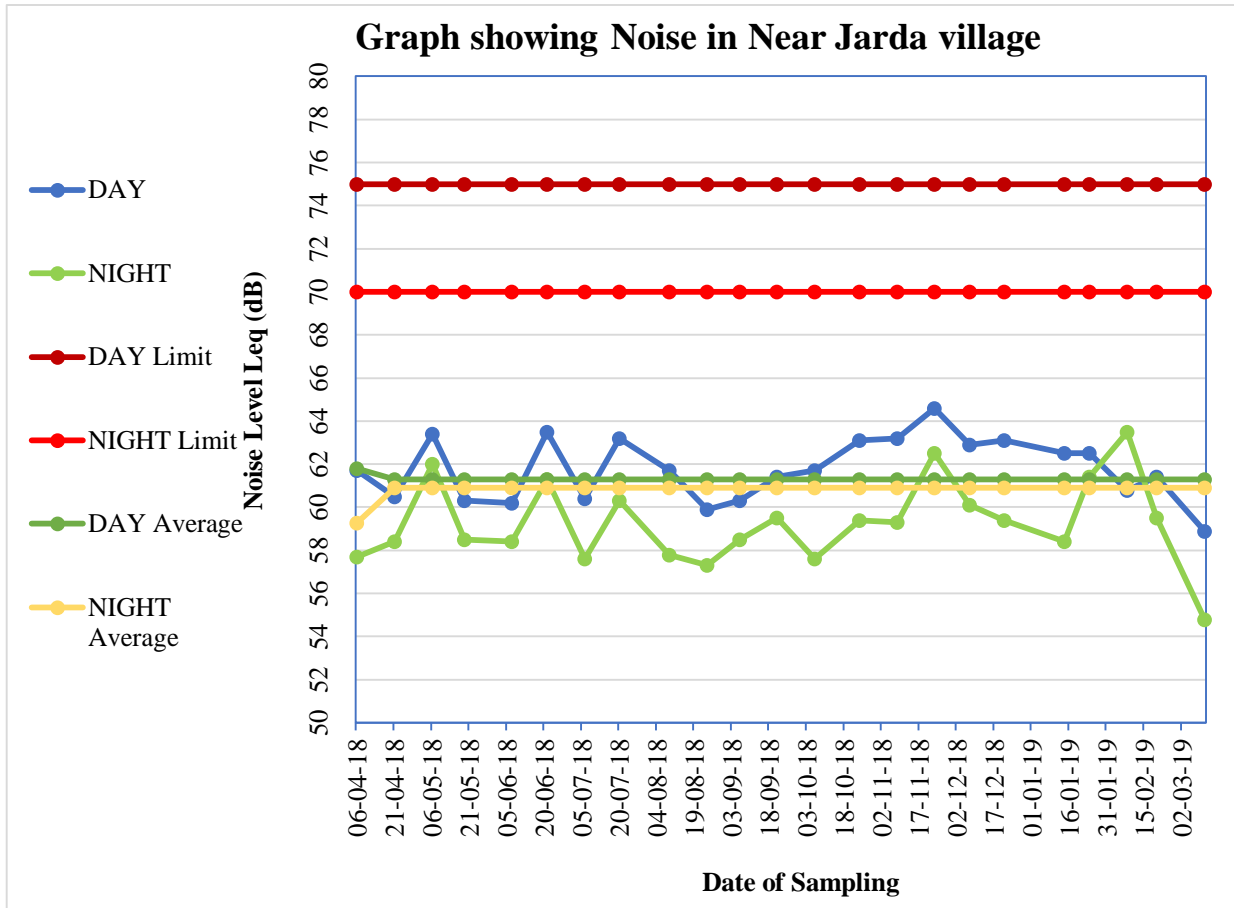


Table:109

Area: Hingula
Project: Hingula OCP
Monitoring Station: Village time office

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 64.8 | 64.2 |
| 19/04/18 | 66.8 | 63.7 |
| 03/05/18 | 65.8 | 62.8 |
| 16/05/18 | 64.7 | 63.9 |
| 04/06/18 | 60.5 | 59.7 |
| 18/06/18 | 67.7 | 66.2 |
| 03/07/18 | 65.6 | 63.2 |
| 17/07/18 | 65.6 | 63.9 |
| 06/08/18 | 64.6 | 64.2 |
| 20/08/18 | 63.7 | 62.4 |
| 03/09/18 | 64.7 | 63.9 |
| 18/09/18 | 64.8 | 62.9 |
| 03/10/18 | 65.5 | 64.2 |
| 15/10/18 | 65.7 | 63.2 |
| 05/11/18 | 65.6 | 63.1 |
| 19/11/18 | 65.8 | 61 |
| 04/12/18 | 62.9 | 61.5 |
| 18/12/18 | 65.7 | 63.2 |
| 12/01/19 | 64.7 | 62.2 |
| 29/01/19 | 67.2 | 61.4 |
| 05/02/19 | 67.4 | 63.6 |
| 16/02/19 | 64.8 | 62.8 |
| 06/03/19 | 60 | 59.5 |
| 21/03/19 | 60 | 59.5 |
| Brief Statistic | Day | Night |
| Minimum | 60 | 59.5 |
| Maximum | 67.7 | 66.2 |
| Mean | 65.0 | 62.9 |
| Noise Standard | 75 | 70 |

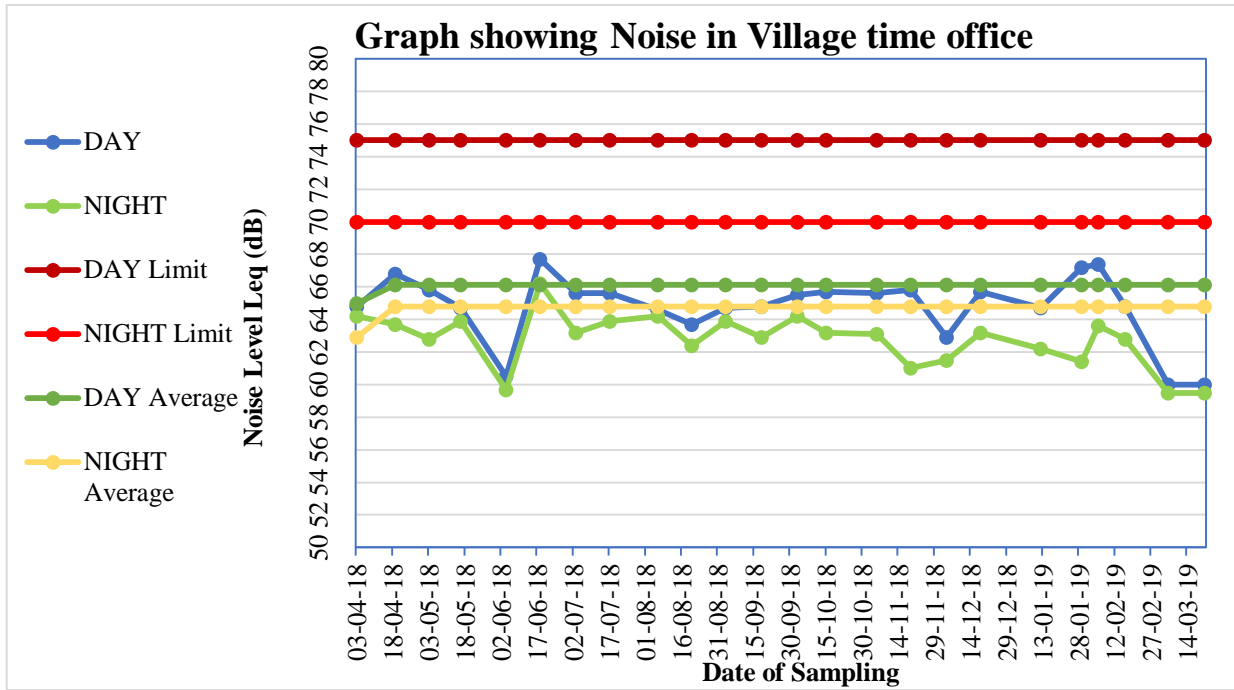


Table:110

Area: Hingula
Project: Hingula OCP
Monitoring Station: Village Chhotobereni

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 59.7 | 57.3 |
| 19/04/18 | 58.4 | 56.7 |
| 03/05/18 | 59.4 | 55.8 |
| 16/05/18 | 59.4 | 56.4 |
| 04/06/18 | 57.6 | 56.4 |
| 18/06/18 | 59.7 | 57.1 |
| 03/07/18 | 59.5 | 54.2 |
| 17/07/18 | 59.8 | 57.1 |
| 06/08/18 | 59.7 | 57.6 |
| 20/08/18 | 58.7 | 56.3 |
| 03/09/18 | 59.4 | 56.4 |
| 18/09/18 | 59.6 | 57.2 |
| 03/10/18 | 59.7 | 56.2 |
| 15/10/18 | 59.8 | 57.2 |
| 05/11/18 | 60 | 57.4 |
| 19/11/18 | 59.8 | 56.2 |
| 04/12/18 | 60.4 | 57.9 |
| 18/12/18 | 59.8 | 57.2 |
| 12/01/19 | 58.8 | 56.2 |
| 29/01/19 | 65.7 | 64.8 |
| 05/02/19 | 59.6 | 57.6 |
| 16/02/19 | 59.6 | 57.2 |
| 06/03/19 | 57.7 | 55.4 |
| 21/03/19 | 57.7 | 59.1 |
| Brief Statistic | Day | Night |
| Minimum | 57.6 | 54.2 |
| Maximum | 65.7 | 64.8 |
| Mean | 59.6 | 57.1 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Village Chhotobereni (NAAQS)

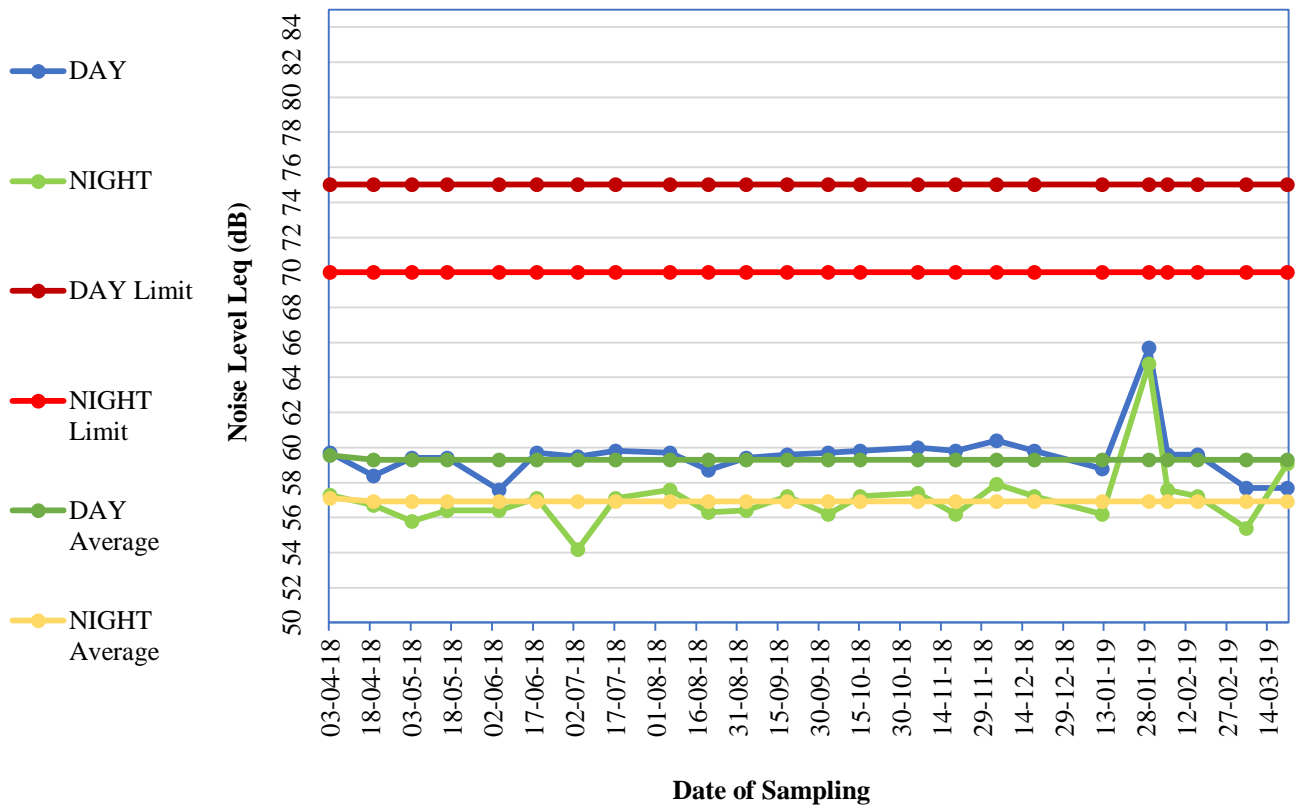


Table:111

Area: Hingula
Project: Hingula OCP
Monitoring Station: Village Kumunda

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 61.2 | 58.1 |
| 19/04/18 | 60.6 | 57.4 |
| 03/05/18 | 58.6 | 55 |
| 16/05/18 | 60.2 | 57.9 |
| 04/06/18 | 59.3 | 57.4 |
| 18/06/18 | 62.6 | 60.4 |
| 03/07/18 | 61.3 | 56.6 |
| 17/07/18 | 60.2 | 58.5 |
| 06/08/18 | 61.2 | 57.5 |
| 20/08/18 | 60.2 | 58.6 |
| 03/09/18 | 60.2 | 57.9 |
| 18/09/18 | 60.2 | 58.3 |
| 03/10/18 | 61.2 | 58.1 |
| 15/10/18 | 60.2 | 58.3 |
| 05/11/18 | 60.4 | 58.5 |
| 19/11/18 | 60.6 | 59.3 |
| 04/12/18 | 61.2 | 60.4 |
| 18/12/18 | 60.2 | 58.3 |
| 12/01/19 | 60 | 57.3 |
| 29/01/19 | 63.1 | 61.4 |
| 05/02/19 | 57.5 | 57.2 |
| 16/02/19 | 60.2 | 58.3 |
| 06/03/19 | 56.8 | 53.8 |
| 21/03/19 | 57.5 | 56.7 |
| Brief Statistic | Day | Night |
| Minimum | 56.8 | 53.8 |
| Maximum | 63.1 | 61.4 |
| Mean | 60.2 | 58.0 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Village Kumunda (NAAQS)

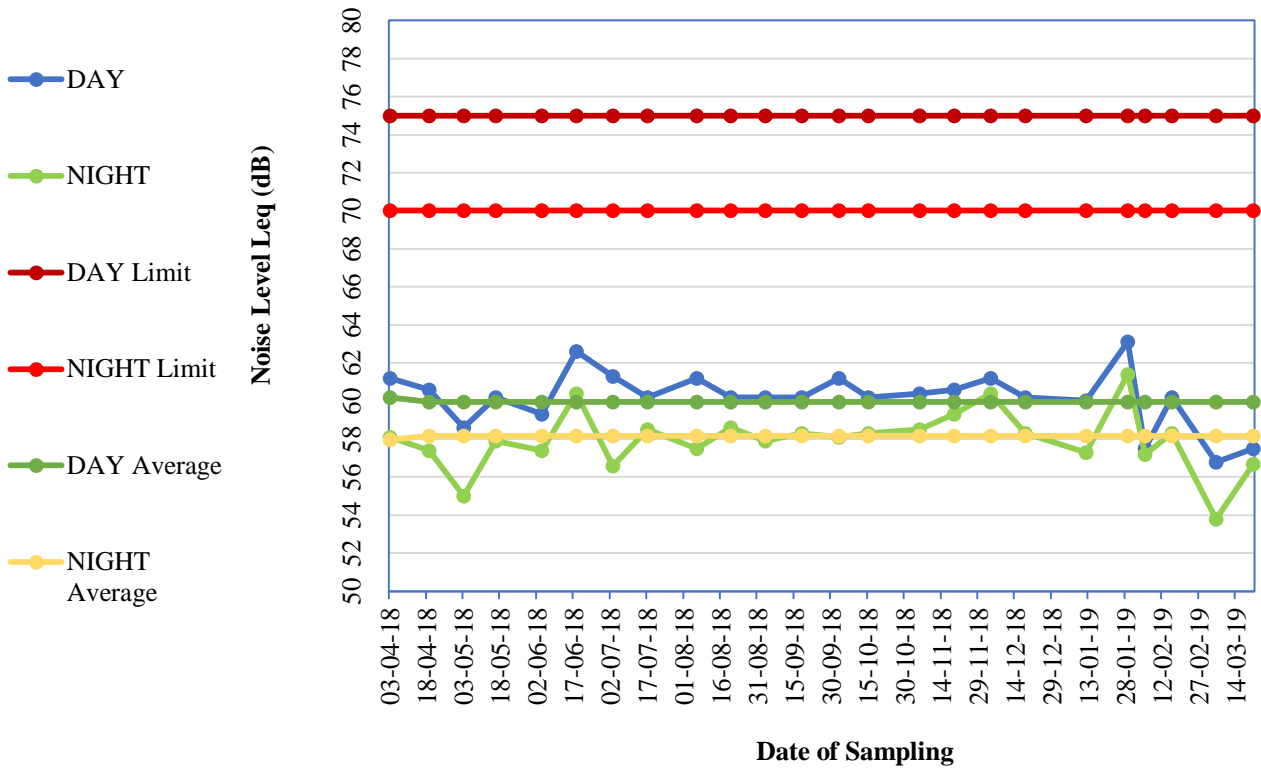


Table:112

Area: Hingula
Project: Hingula OCP
Monitoring Station: Near Project Office

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 63.5 | 61.7 |
| 19/04/18 | 67.2 | 64.8 |
| 03/05/18 | 63.7 | 60.4 |
| 16/05/18 | 63.5 | 63.2 |
| 04/06/18 | 60.7 | 60.4 |
| 18/06/18 | 65.9 | 65.2 |
| 03/07/18 | 63.2 | 62.9 |
| 17/07/18 | 64.2 | 61.8 |
| 06/08/18 | 63.5 | 61.9 |
| 20/08/18 | 62.9 | 60.7 |
| 03/09/18 | 63.5 | 62.3 |
| 18/09/18 | 63.7 | 60.9 |
| 03/10/18 | 63.5 | 61.7 |
| 15/10/18 | 63.4 | 61.9 |
| 05/11/18 | 63.3 | 61.8 |
| 19/11/18 | 64.5 | 62.6 |
| 04/12/18 | 64.9 | 63.6 |
| 18/12/18 | 63.4 | 61.9 |
| 12/01/19 | 62.4 | 60.9 |
| 29/01/19 | 67.2 | 65.3 |
| 05/02/19 | 63.2 | 62.2 |
| 16/02/19 | 63.6 | 60.8 |
| 06/03/19 | 65.4 | 64.7 |
| 21/03/19 | 55.4 | 63.7 |
| Brief Statistic | Day | Night |
| Minimum | 55.4 | 60.4 |
| Maximum | 67.2 | 65.3 |
| Mean | 63.6 | 62.4 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near Project Office

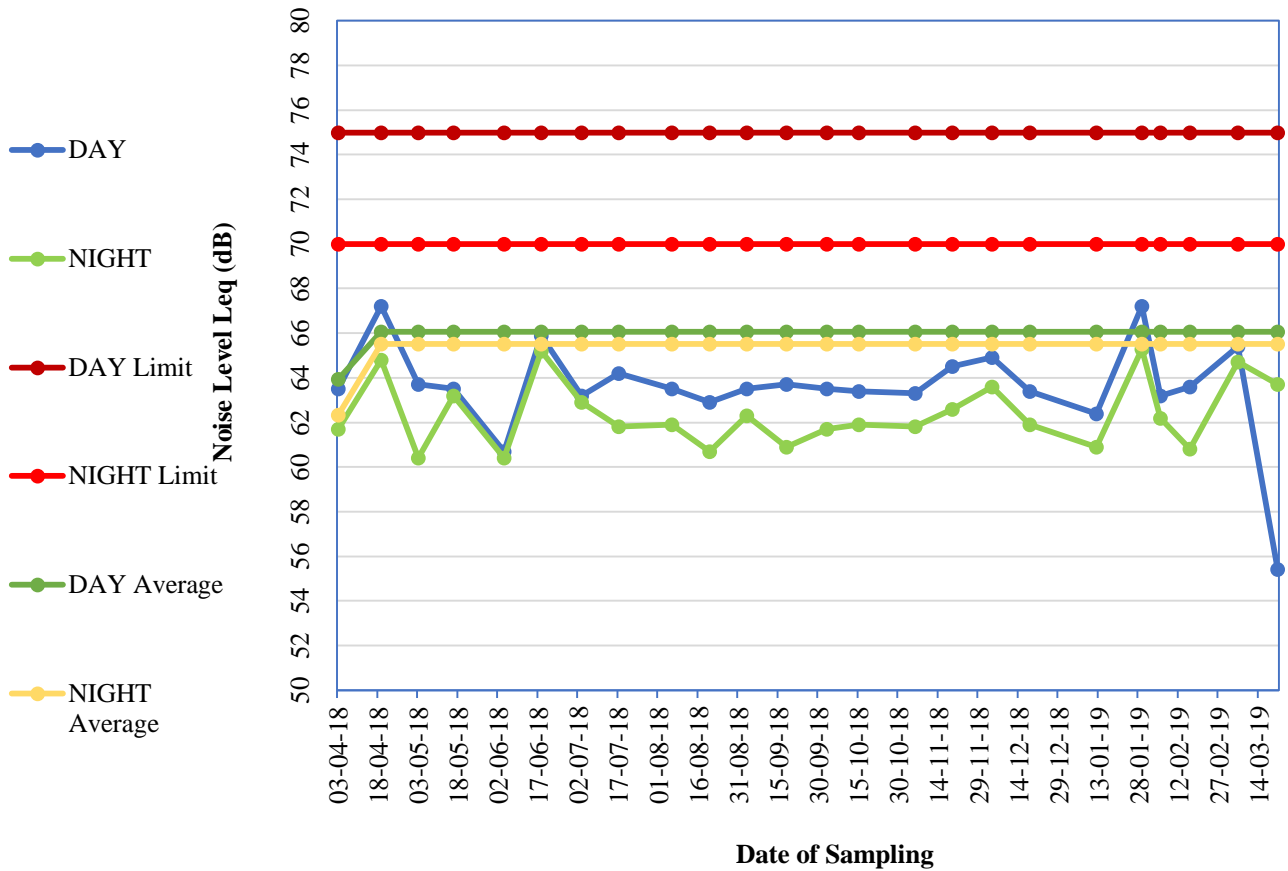


Table:113

Area: Hingula
Project: Balaram OCP
Monitoring Station: On backfilled area near dozer shed

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 65.2 | 63.9 |
| 20/04/18 | 63.4 | 62.8 |
| 03/05/18 | 65.8 | 63.4 |
| 16/05/18 | 67.1 | 64.7 |
| 04/06/18 | 62.4 | 65.5 |
| 18/06/18 | 66.8 | 65.7 |
| 03/07/18 | 67.1 | 63.2 |
| 17/07/18 | 64.7 | 63.4 |
| 06/08/18 | 65.2 | 62.6 |
| 20/08/18 | 64.7 | 63.5 |
| 03/09/18 | 67.1 | 64.7 |
| 18/09/18 | 65.2 | 63.7 |
| 03/10/18 | 65.2 | 63.6 |
| 15/10/18 | 64.8 | 64.2 |
| 05/11/18 | 64.7 | 64 |
| 19/11/18 | 63.7 | 62.5 |
| 04/12/18 | 67.2 | 66.9 |
| 18/12/18 | 64.8 | 64 |
| 12/01/19 | 63.8 | 60.4 |
| 29/01/19 | 65.8 | 65.3 |
| 05/02/19 | 67.3 | 65.2 |
| 16/02/19 | 65.2 | 63.5 |
| 06/03/19 | 68 | 65.2 |
| 21/03/19 | 68 | 65.2 |
| Brief Statistic | Day | Night |
| Minimum | 62.4 | 60.4 |
| Maximum | 68 | 66.9 |
| Mean | 65.6 | 64.0 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Project Office Balram OCP

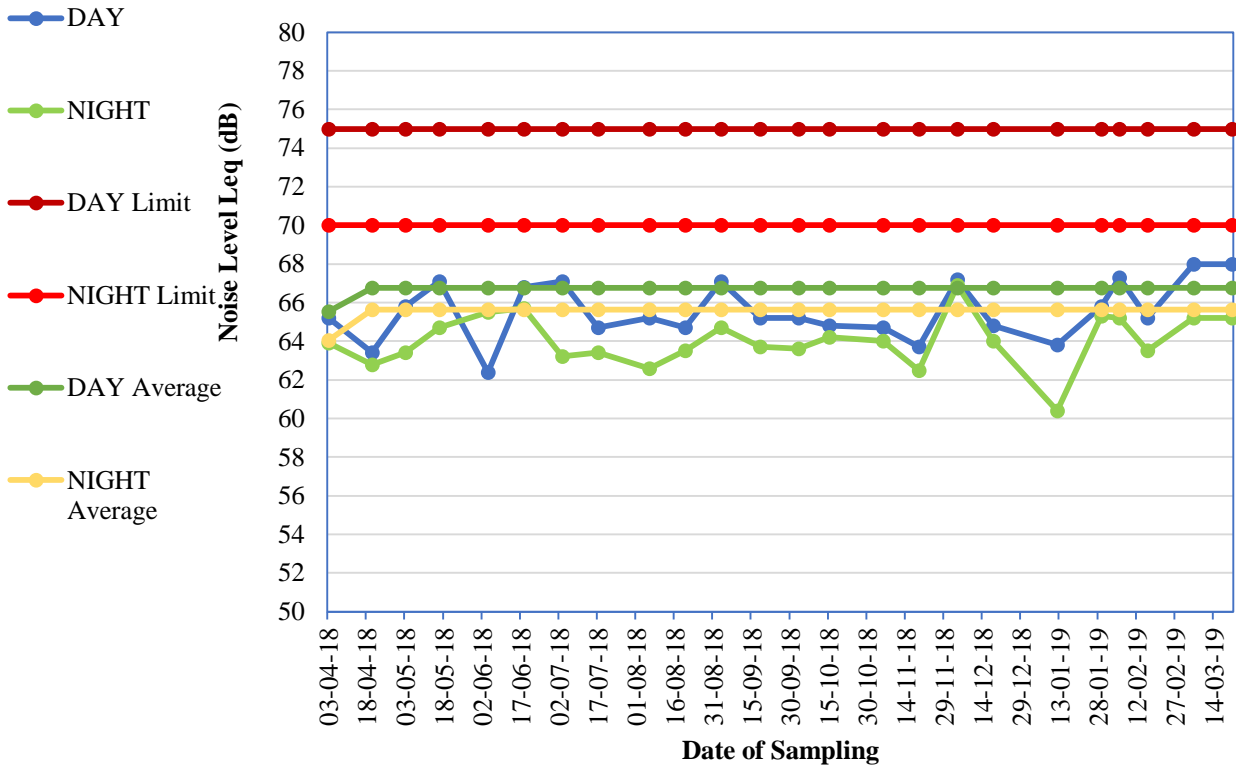


Table:114

Area: Hingula
Project: Balaram OCP
Monitoring Station: Project Office Balram OCP

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 09/04/18 | 63.9 | 61.7 |
| 20/04/18 | 65.8 | 59.8 |
| 03/05/18 | 63.6 | 62.5 |
| 22/05/18 | 64.2 | 61.7 |
| 09/06/18 | 62.3 | 61.8 |
| 23/06/18 | 64.3 | 62.5 |
| 09/07/18 | 63.2 | 61.8 |
| 23/07/18 | 63.2 | 60.1 |
| 11/08/18 | 62.5 | 61.8 |
| 26/08/18 | 62.4 | 60.9 |
| 03/09/18 | 64.2 | 61.7 |
| 24/09/18 | 63.5 | 62.1 |
| 09/10/18 | 63.2 | 61.8 |
| 25/10/18 | 63.1 | 60.4 |
| 11/11/18 | 63.1 | 60.6 |
| 19/11/18 | 63.5 | 61.2 |
| 11/12/18 | 64.7 | 57.2 |
| 25/12/18 | 63.1 | 60.4 |
| 15/01/19 | 62.1 | 59.4 |
| 29/01/19 | 65.7 | 64.5 |
| 05/02/19 | 65.1 | 62.6 |
| 16/02/19 | 63 | 61.7 |
| 06/03/19 | 63.8 | 62.2 |
| 21/03/19 | 63.8 | 62.2 |
| Brief Statistic | Day | Night |
| Minimum | 62.1 | 57.2 |
| Maximum | 65.8 | 64.5 |
| Mean | 63.6 | 61.3 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Project Office Balram OCP

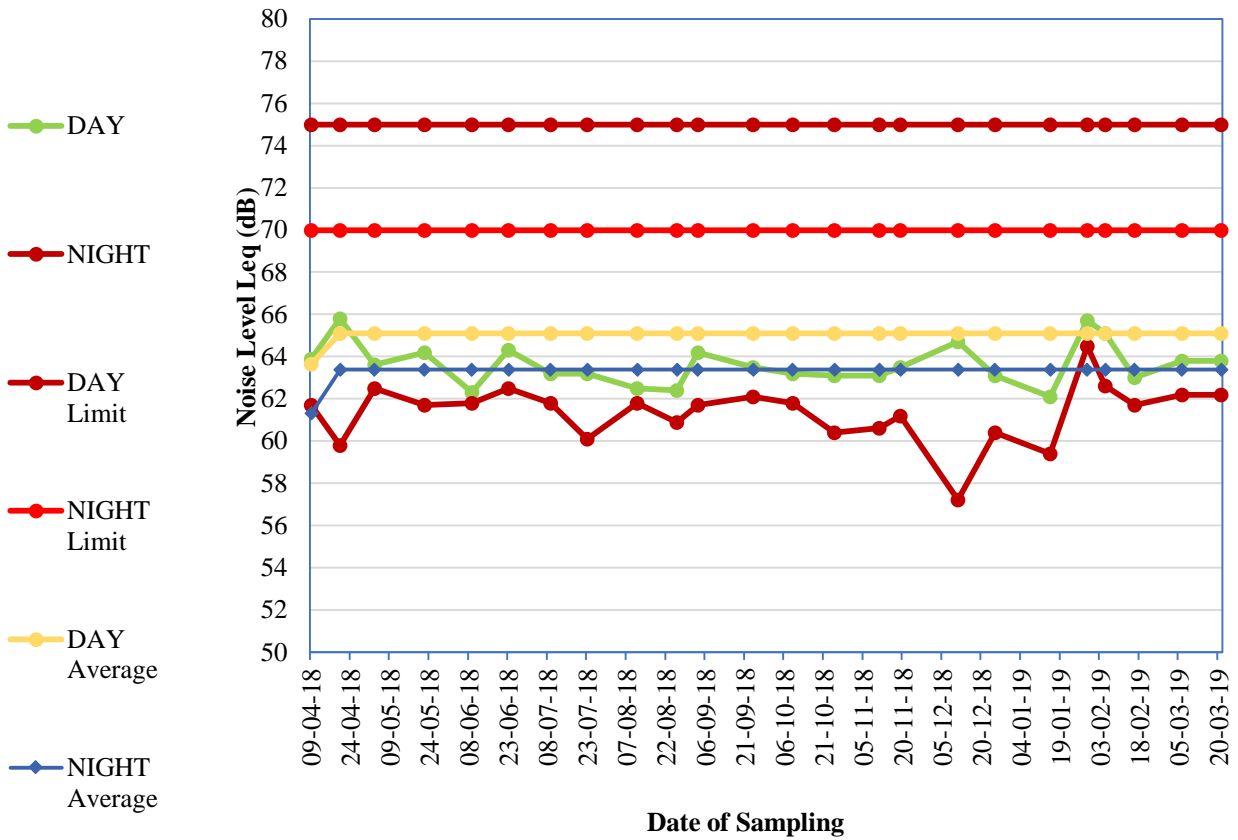


Table:115

Area: Hingula
Project: Balaram OCP
Monitoring Station: Solada Village

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 60.7 | 58.3 |
| 20/04/18 | 64.3 | 63.4 |
| 03/05/18 | 58.4 | 56.4 |
| 22/05/18 | 61.3 | 57.3 |
| 04/06/18 | 59.8 | 59.3 |
| 18/06/18 | 62.2 | 60.4 |
| 03/07/18 | 61.3 | 57.4 |
| 17/07/18 | 60.3 | 57.6 |
| 06/08/18 | 60.7 | 58.3 |
| 20/08/18 | 60.3 | 57.9 |
| 03/09/18 | 61.3 | 57.2 |
| 18/09/18 | 59.2 | 57.8 |
| 03/10/18 | 60.6 | 57.2 |
| 15/10/18 | 59.8 | 57.4 |
| 05/11/18 | 59.9 | 57.5 |
| 19/11/18 | 59.5 | 57.5 |
| 11/12/18 | 61.4 | 60.1 |
| 18/12/18 | 59.8 | 57.1 |
| 12/01/19 | 58.8 | 57 |
| 29/01/19 | 63.2 | 60.6 |
| 05/02/19 | 57.2 | 65.5 |
| 16/02/19 | 59.2 | 57.7 |
| 06/03/19 | 55 | 54.8 |
| 21/03/19 | 55.3 | 56.2 |
| Brief Statistic | Day | Night |
| Minimum | 55 | 54.8 |
| Maximum | 64.3 | 65.5 |
| Mean | 60.2 | 58.4 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Solada Village

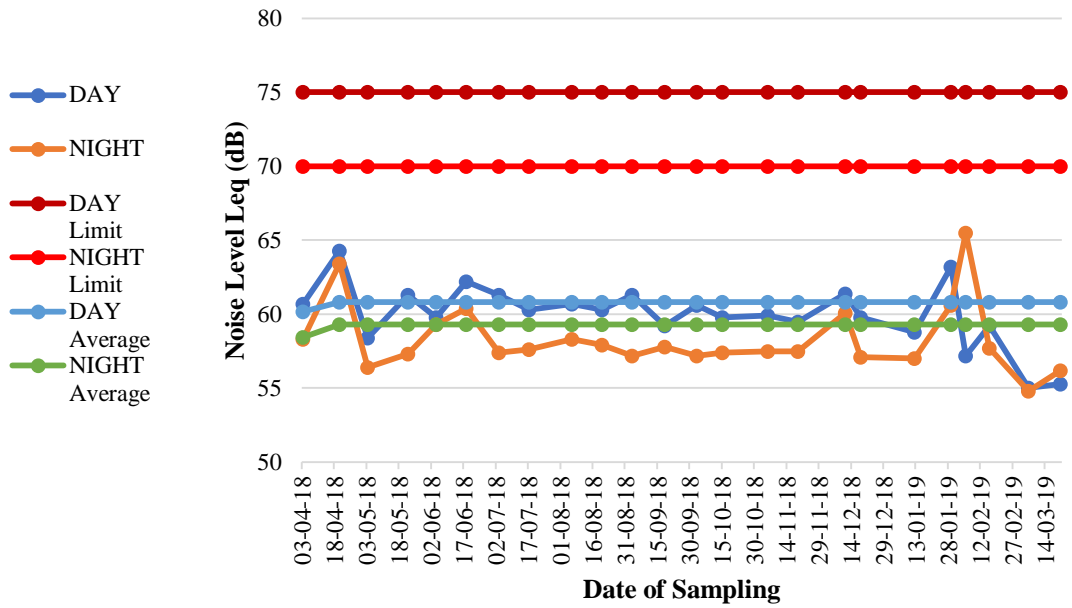


Table:116

Area: Hingula
Project: Balaram OCP
Monitoring Station: Natada Village

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 03/04/18 | 62.5 | 60 |
| 20/04/18 | 63.4 | 61.8 |
| 03/05/18 | 59.3 | 55.8 |
| 16/05/18 | 62.3 | 60.8 |
| 04/06/18 | 58.6 | 56.7 |
| 18/06/18 | 63.5 | 62.9 |
| 03/07/18 | 62.3 | 60.8 |
| 17/07/18 | 62.3 | 60 |
| 06/08/18 | 61.6 | 60.5 |
| 20/08/18 | 60.3 | 58.9 |
| 03/09/18 | 63.3 | 58.8 |
| 18/09/18 | 62.4 | 59.1 |
| 03/10/18 | 62.5 | 60.3 |
| 15/10/18 | 63.2 | 60.9 |
| 05/11/18 | 62.9 | 60.8 |
| 19/11/18 | 64.5 | 62.1 |
| 04/12/18 | 62.5 | 61.5 |
| 18/12/18 | 63.2 | 60.9 |
| 12/01/19 | 62.4 | 59.9 |
| 29/01/19 | 62.7 | 60.6 |
| 05/02/19 | 59.2 | 57.5 |
| 16/02/19 | 62.4 | 59.1 |
| 06/03/19 | 55.8 | 54.8 |
| 21/03/19 | 56.8 | 54.5 |
| Brief Statistic | Day | Night |
| Minimum | 55.8 | 54.5 |
| Maximum | 64.5 | 62.9 |
| Mean | 61.6 | 59.5 |
| Noise Standard | 75 | 70 |

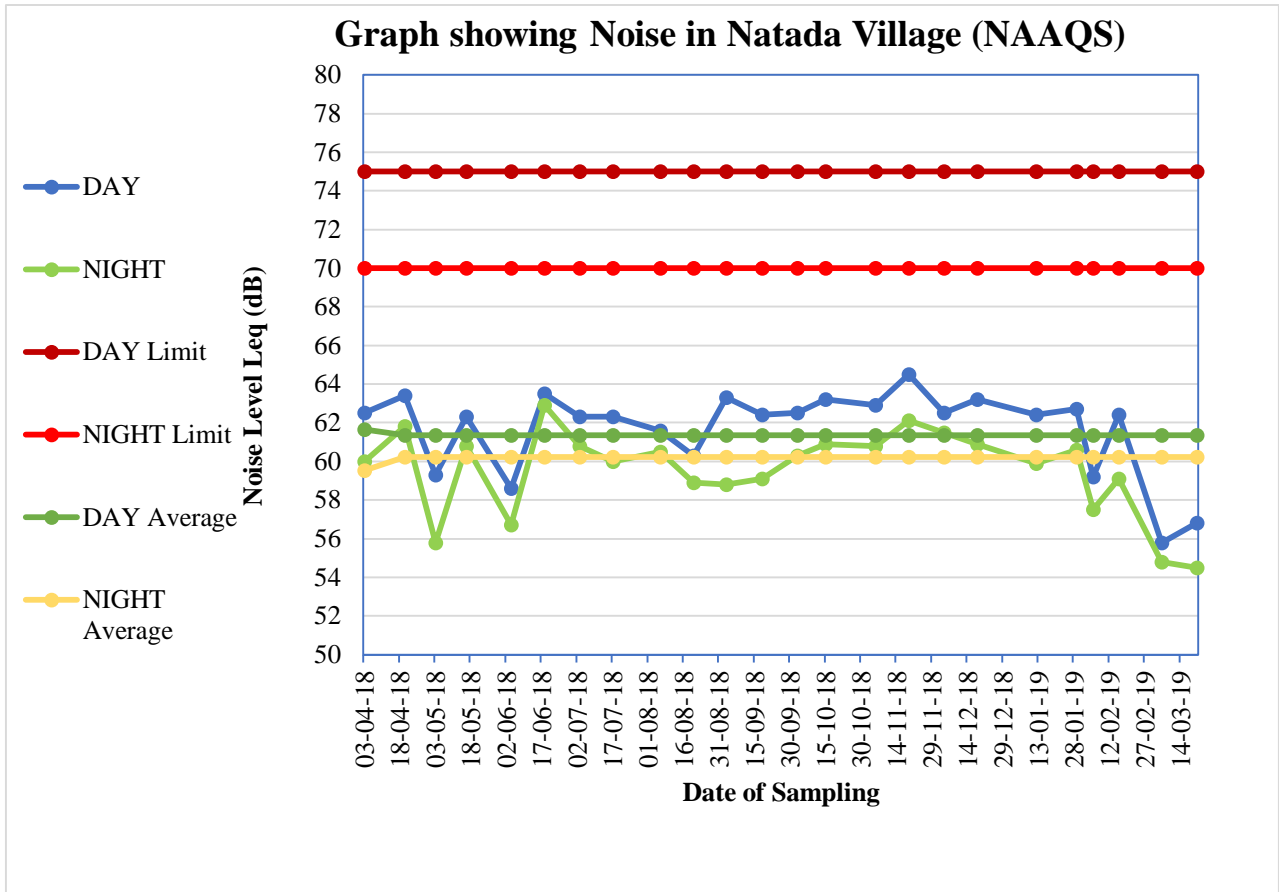


Table:117

Area: Talcher
Project: Talcher Colliery
Monitoring Station: Canteen, Talcher Colliery

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 11/04/18 | 64.7 | 62.7 |
| 25/04/18 | 58.4 | 56.8 |
| 10/05/18 | 62.3 | 59.8 |
| 24/05/18 | 65.1 | 63.6 |
| 09/06/18 | 62.4 | 60.2 |
| 23/06/18 | 65.2 | 63.9 |
| 09/07/18 | 65.1 | 63.6 |
| 23/07/18 | 65.2 | 63.8 |
| 11/08/18 | 64.6 | 61.8 |
| 26/08/18 | 63.5 | 61.7 |
| 09/09/18 | 64.2 | 59.6 |
| 24/09/18 | 63.2 | 62.5 |
| 09/10/18 | 64.7 | 63.3 |
| 25/10/18 | 63.7 | 61.9 |
| 11/11/18 | 62.4 | 60.9 |
| 25/11/18 | 63.6 | 61.6 |
| 11/12/18 | 64.8 | 63.5 |
| 25/12/18 | 63.7 | 61.8 |
| 15/01/19 | 62.7 | 61.9 |
| 24/01/19 | 64.8 | 64.5 |
| 11/02/19 | 67.3 | 65.3 |
| 22/02/19 | 63.2 | 62.5 |
| 12/03/19 | 58.9 | 56.4 |
| 28/03/19 | 59.3 | 56.2 |
| Brief Statistic | Day | Night |
| Minimum | 58.4 | 56.2 |
| Maximum | 67.3 | 65.3 |
| Mean | 63.5 | 61.7 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Canteen Talcher Colliery of Talcher Area

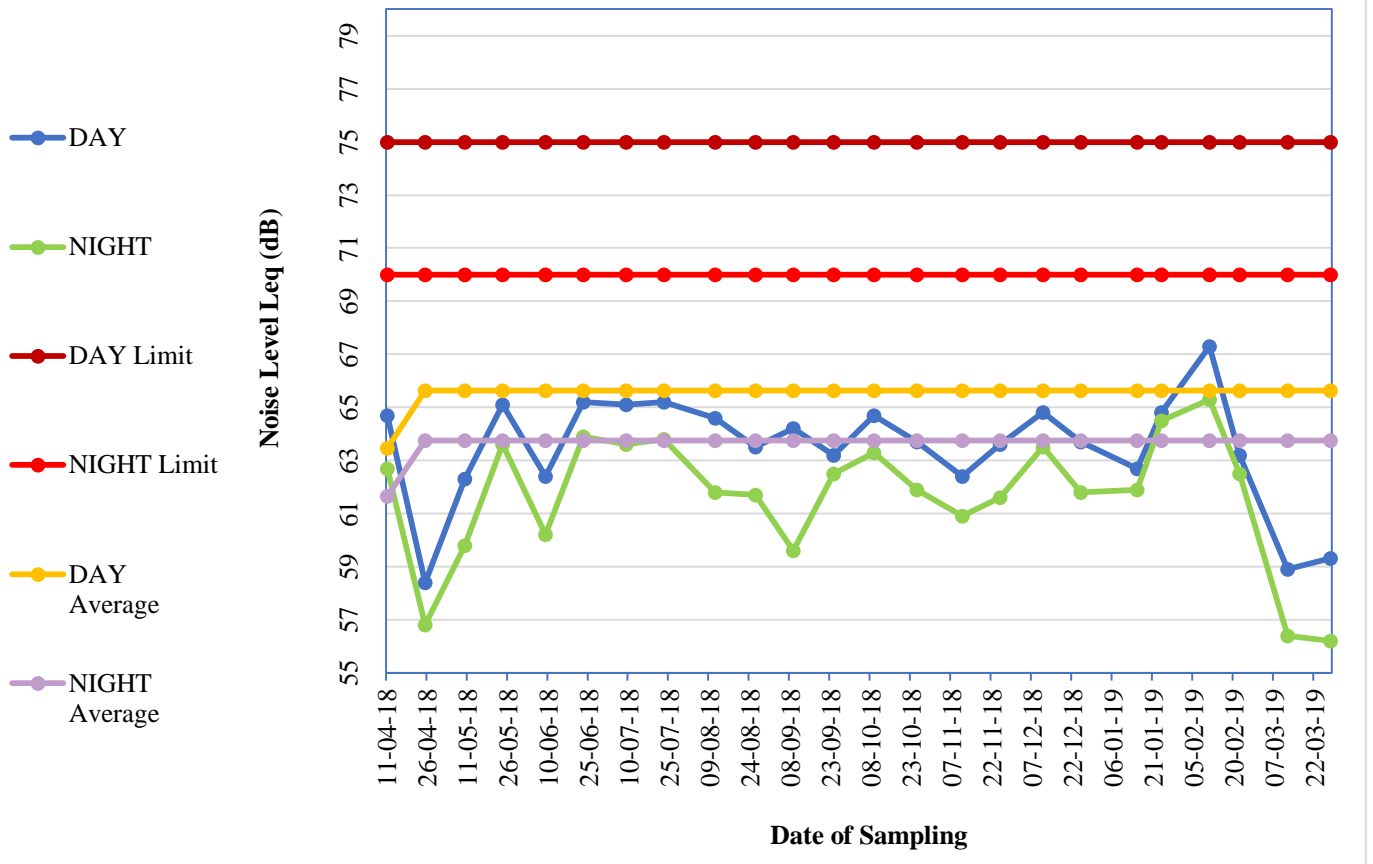


Table:118

Area: Talcher
Project: Talcher Colliery
Monitoring Station: GM Office, Talcher Colliery

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 11/04/18 | 62.5 | 60.3 |
| 25/04/18 | 61.8 | 59.8 |
| 10/05/18 | 60.4 | 58.2 |
| 24/05/18 | 63.7 | 60.8 |
| 09/06/18 | 60.8 | 58.9 |
| 23/06/18 | 63.8 | 60.9 |
| 09/07/18 | 63.8 | 59.5 |
| 23/07/18 | 63.4 | 60.2 |
| 11/08/18 | 62.5 | 60.2 |
| 26/08/18 | 61.7 | 59.2 |
| 09/09/18 | 63.7 | 60.8 |
| 24/09/18 | 62.7 | 60.1 |
| 09/10/18 | 62.5 | 60.2 |
| 25/10/18 | 62.5 | 60.1 |
| 11/11/18 | 60.1 | 59.6 |
| 25/11/18 | 62.6 | 61.2 |
| 11/12/18 | 62.9 | 60.6 |
| 25/12/18 | 62.7 | 60.1 |
| 15/01/19 | 61.5 | 60.1 |
| 24/01/19 | 63.6 | 60.2 |
| 11/02/19 | 61.7 | 60.2 |
| 22/02/19 | 62.7 | 60.1 |
| 12/03/19 | 59.4 | 58.1 |
| 28/03/19 | 59.2 | 57.2 |
| Brief Statistic | Day | Night |
| Minimum | 59.2 | 57.2 |
| Maximum | 63.8 | 61.2 |
| Mean | 62.2 | 59.9 |
| Noise Standard | 75 | 70 |

Graph showing Noise in GM Office, Talcher Colliery of Talcher Area

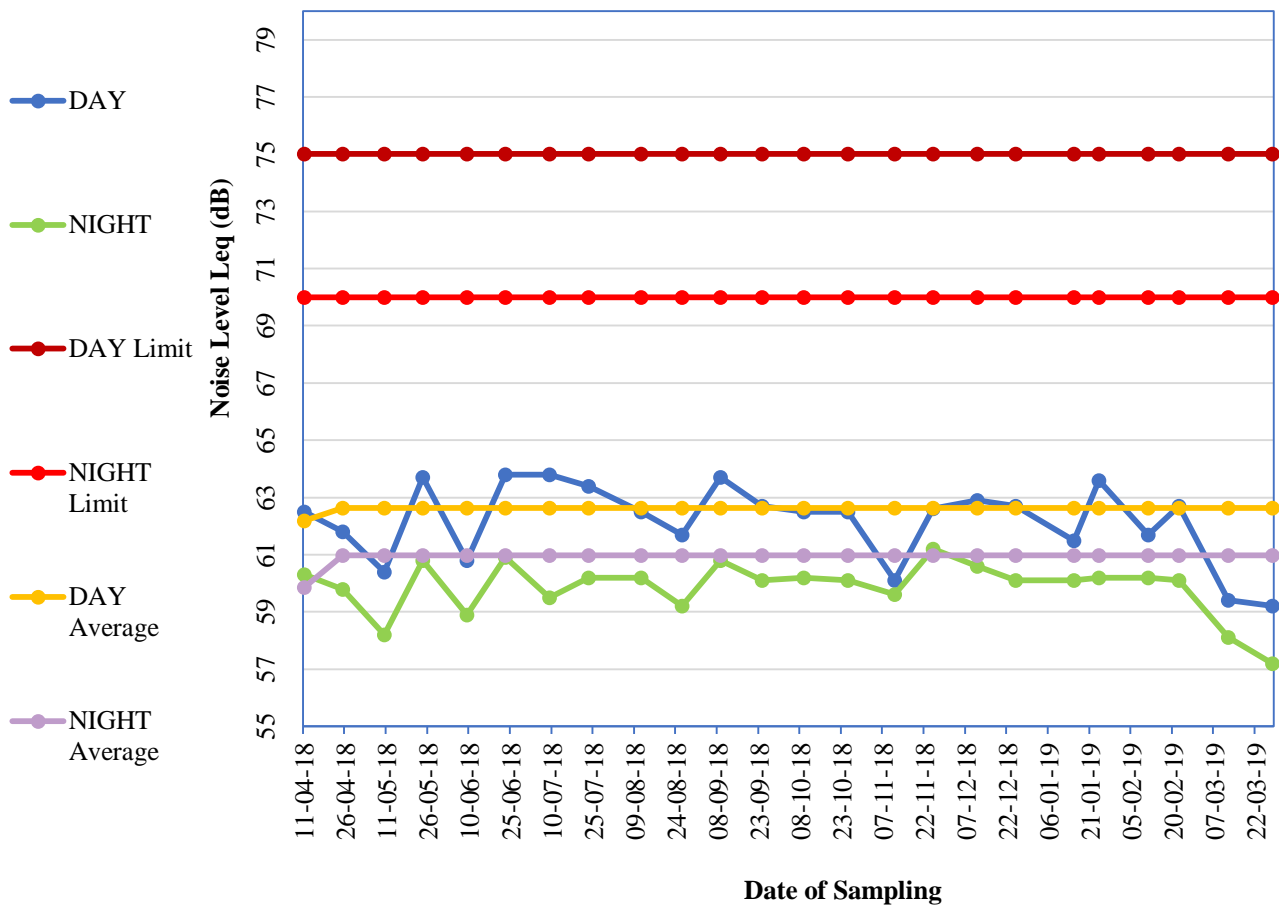


Table:119

Area: Talcher
Project: Talcher Colliery
Monitoring Station: Near Gopinathpur village, Mandapal sand mine

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06/04/18 | 60.2 | 57.2 |
| 25/04/18 | 56.8 | 54.8 |
| 06/05/18 | 59.8 | 54.8 |
| 19/05/18 | 59.4 | 56.3 |
| 07/06/18 | 57.6 | 56.5 |
| 21/06/18 | 60.2 | 58.4 |
| 06/07/18 | 59.3 | 54.3 |
| 20/07/18 | 59.5 | 57.2 |
| 09/08/18 | 61.6 | 56.3 |
| 24/08/18 | 59.2 | 57.4 |
| 06/09/18 | 59.4 | 56.3 |
| 21/09/18 | 58.4 | 56.9 |
| 06/10/18 | 60.2 | 57.1 |
| 24/10/18 | 59.8 | 56.9 |
| 08/11/18 | 59.9 | 57.1 |
| 23/11/18 | 59.5 | 57.5 |
| 07/12/18 | 60.1 | 57.2 |
| 21/12/18 | 59.8 | 57 |
| 14/01/19 | 59.8 | 56.9 |
| 24/01/19 | 60.4 | 57.8 |
| 08/02/19 | 59.1 | 57.6 |
| 20/02/19 | 58.4 | 56.9 |
| 11/03/19 | 58.4 | 55.4 |
| 27/03/19 | 58.4 | 57.2 |
| Brief Statistic | Day | Night |
| Minimum | 56.8 | 54.3 |
| Maximum | 61.6 | 58.4 |
| Mean | 59.4 | 56.7 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Near Gopinathpur village, Mandapal sand mine

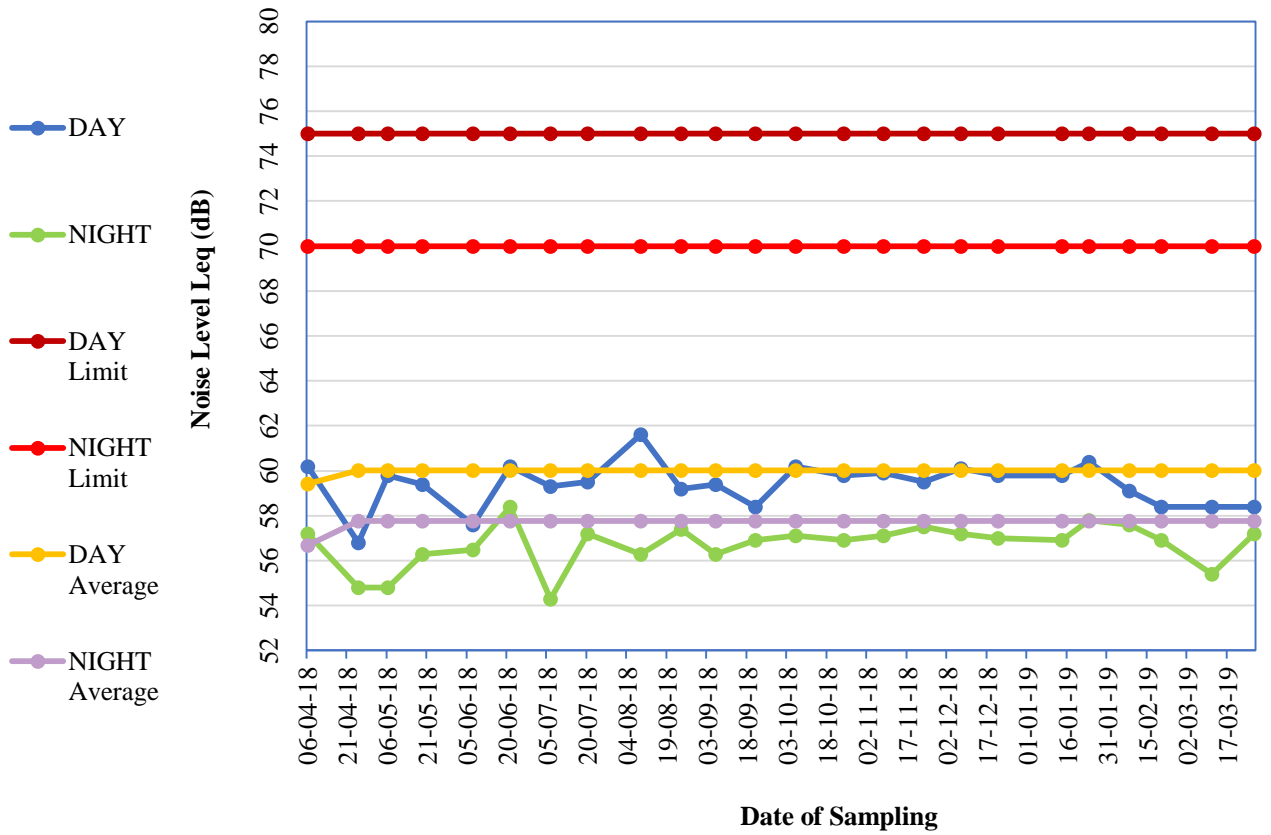


Table:120

Area: Talcher
Project: Talcher Colliery
Monitoring Station: Project Office, Nandira Colliery

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 11/04/18 | 62.1 | 60.5 |
| 26/04/18 | 60.8 | 57.4 |
| 10/05/18 | 63.6 | 62.4 |
| 24/05/18 | 62.5 | 60.9 |
| 09/06/18 | 60.9 | 58.2 |
| 23/06/18 | 64.1 | 62.5 |
| 09/07/18 | 62.5 | 60.9 |
| 23/07/18 | 63.1 | 60.5 |
| 11/08/18 | 61.6 | 60.5 |
| 26/08/18 | 62.6 | 60.5 |
| 09/09/18 | 60.5 | 60.2 |
| 24/09/18 | 63.1 | 60.6 |
| 09/10/18 | 62.1 | 60.3 |
| 25/10/18 | 63.2 | 60.9 |
| 11/11/18 | 63.4 | 60.7 |
| 25/11/18 | 64.9 | 63.2 |
| 11/12/18 | 63.4 | 60.2 |
| 25/12/18 | 63.2 | 60.9 |
| 15/01/19 | 63.2 | 60.9 |
| 24/01/19 | 63.7 | 61.9 |
| 11/02/19 | 62.5 | 60.7 |
| 22/02/19 | 63.1 | 60.2 |
| 12/03/19 | 60.8 | 57.4 |
| 28/03/19 | 60.4 | 59.1 |
| Brief Statistic | Day | Night |
| Minimum | 60.4 | 57.4 |
| Maximum | 64.9 | 63.2 |
| Mean | 62.6 | 60.5 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Project Office, Nandira Colliery of Talcher Area

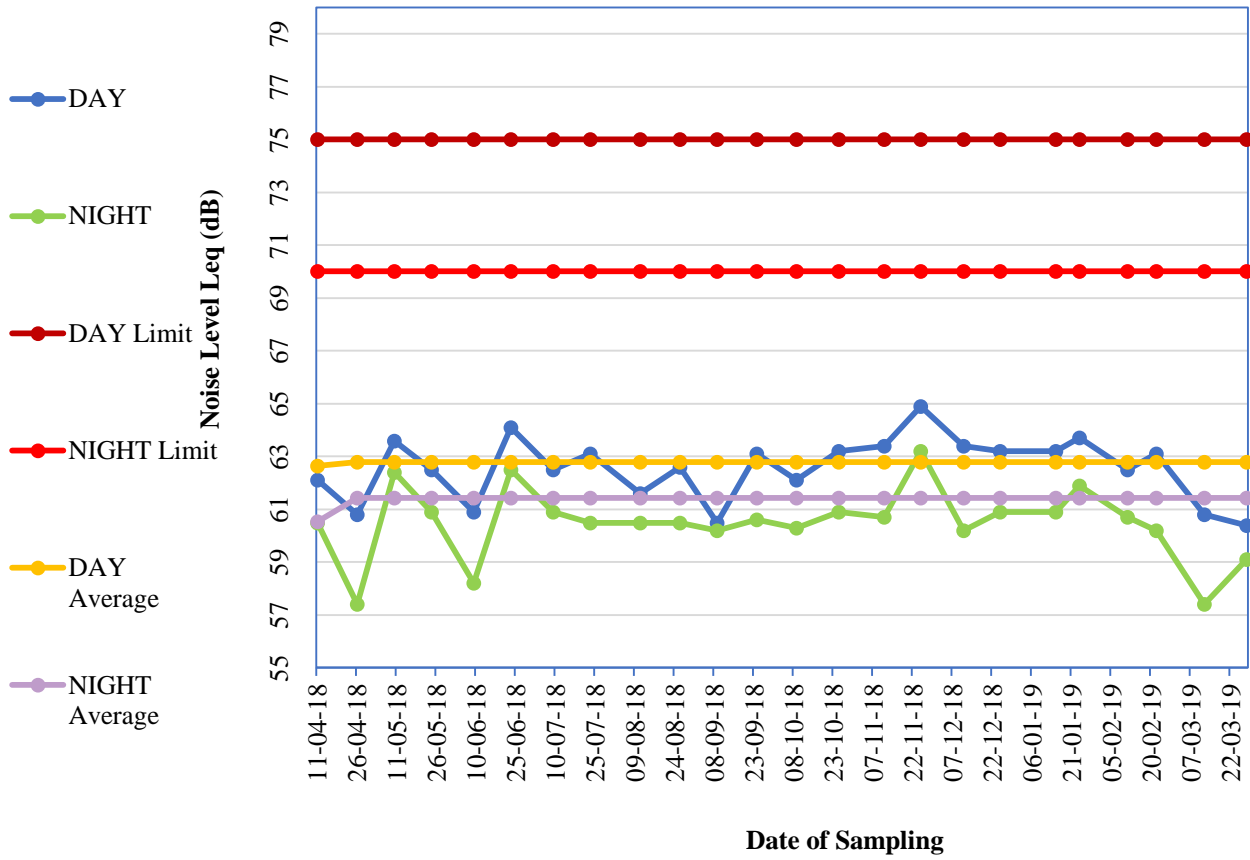


Table:121

Area: Talcher
Project: Talcher Colliery
Monitoring Station: Sub Station, Nandira Colliery

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 11/04/18 | 63.9 | 62.4 |
| 26/04/18 | 61.8 | 59.8 |
| 10/05/18 | 64.8 | 63.4 |
| 24/05/18 | 64.9 | 62.5 |
| 09/06/18 | 58.2 | 56.4 |
| 23/06/18 | 65.9 | 63.7 |
| 09/07/18 | 64.9 | 62.6 |
| 23/07/18 | 64.9 | 63.7 |
| 11/08/18 | 62.6 | 61.1 |
| 26/08/18 | 64.2 | 62.9 |
| 09/09/18 | 63.2 | 59.5 |
| 24/09/18 | 64.5 | 63.1 |
| 09/10/18 | 63.9 | 62.4 |
| 25/10/18 | 64.2 | 63.5 |
| 11/11/18 | 64.4 | 60.2 |
| 25/11/18 | 63.6 | 62.9 |
| 11/12/18 | 65.8 | 62.4 |
| 25/12/18 | 64.2 | 63.4 |
| 15/01/19 | 64.2 | 63.5 |
| 24/01/19 | 67.1 | 64.3 |
| 11/02/19 | 66.2 | 64.7 |
| 22/02/19 | 63.9 | 63 |
| 12/03/19 | 59.4 | 57.2 |
| 28/03/19 | 59.4 | 57.2 |
| Brief Statistic | Day | Night |
| Minimum | 58.2 | 56.4 |
| Maximum | 67.1 | 64.7 |
| Mean | 63.8 | 61.9 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Sub Station, Nandira Colliery of Talcher Area

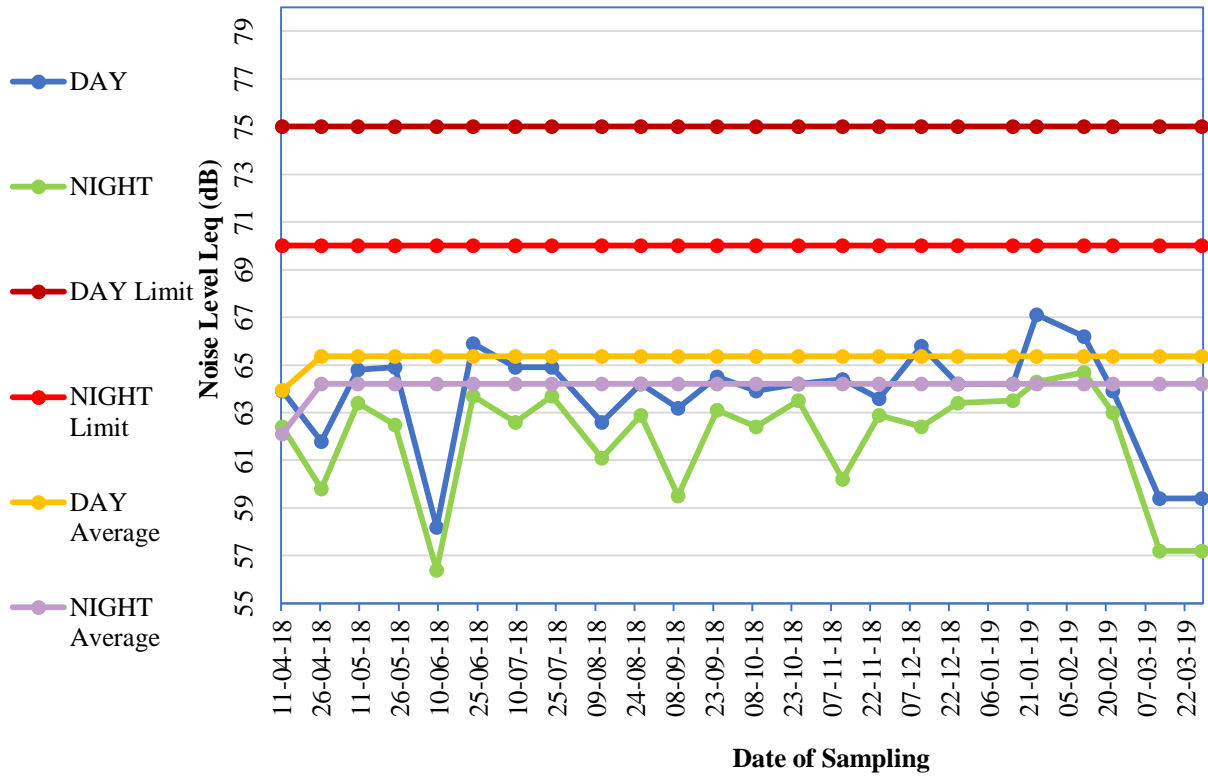


Table:122

Area: Talcher
Project: Talcher Colliery
Monitoring Station: Near Kishoripal Village

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 06/04/18 | 62.1 | 59.4 |
| 26/04/18 | 59.8 | 56.4 |
| 06/05/18 | 59.9 | 58.6 |
| 19/05/18 | 60.2 | 58.4 |
| 07/06/18 | 59.5 | 58.4 |
| 21/06/18 | 61.7 | 59.3 |
| 06/07/18 | 60.8 | 57.3 |
| 20/07/18 | 60.3 | 58.1 |
| 09/08/18 | 61.6 | 58.2 |
| 24/08/18 | 60.1 | 57.4 |
| 06/09/18 | 60.2 | 58.4 |
| 21/09/18 | 62.7 | 60 |
| 06/10/18 | 62.5 | 59.1 |
| 24/10/18 | 61.3 | 58.2 |
| 08/11/18 | 61.4 | 58.4 |
| 23/11/18 | 61.3 | 60.2 |
| 07/12/18 | 61.5 | 57.6 |
| 21/12/18 | 61.8 | 58.9 |
| 14/01/19 | 61.3 | 58.2 |
| 24/01/19 | 60.2 | 58.2 |
| 08/02/19 | 57.6 | 56.2 |
| 20/02/19 | 62.7 | 59.9 |
| 11/03/19 | 57.4 | 54.8 |
| 27/03/19 | 59.2 | 57.4 |
| Brief Statistic | Day | Night |
| Minimum | 57.6 | 56.2 |
| Maximum | 62.7 | 60.2 |
| Mean | 60.9 | 58.4 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Sub Station, Nandira Colliery of Talcher Area

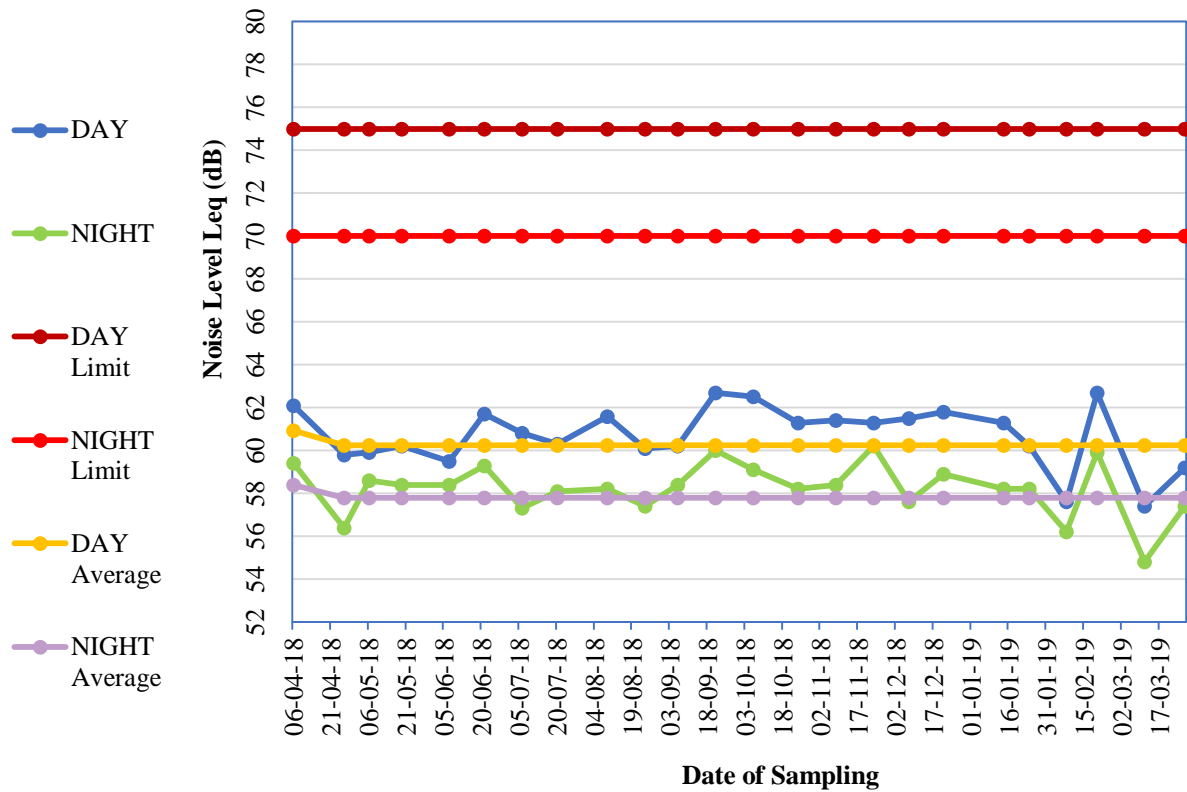


Table:123

Area: Talcher
Project: Talcher Colliery
Monitoring Station: Deulbera Colony

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 11/04/18 | 60.2 | 57.1 |
| 26/04/18 | 61.7 | 59.8 |
| 10/05/18 | 60.6 | 59.6 |
| 24/05/18 | 59.8 | 56.9 |
| 09/06/18 | 59.1 | 57.7 |
| 23/06/18 | 59.8 | 57.2 |
| 09/07/18 | 59.7 | 56.8 |
| 23/07/18 | 60.2 | 57.8 |
| 11/08/18 | 60.2 | 57.1 |
| 26/08/18 | 59.8 | 57.1 |
| 09/09/18 | 59.8 | 57.6 |
| 24/09/18 | 60.1 | 57.3 |
| 09/10/18 | 60.2 | 57.5 |
| 25/10/18 | 60.2 | 58.1 |
| 11/11/18 | 60.2 | 58.2 |
| 25/11/18 | 60.3 | 59.2 |
| 11/12/18 | 60.5 | 57.4 |
| 25/12/18 | 60.2 | 58.3 |
| 15/01/19 | 60.2 | 58.1 |
| 24/01/19 | 60.5 | 57.9 |
| 11/02/19 | 59.5 | 57.6 |
| 22/02/19 | 60.1 | 57.3 |
| 12/03/19 | 58.3 | 54.8 |
| 28/03/19 | 56.2 | 54.8 |
| Brief Statistic | Day | Night |
| Minimum | 56.2 | 54.8 |
| Maximum | 61.7 | 59.8 |
| Mean | 59.9 | 57.6 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Deulbera Colony, Deulbera Colliery of Talcher Area

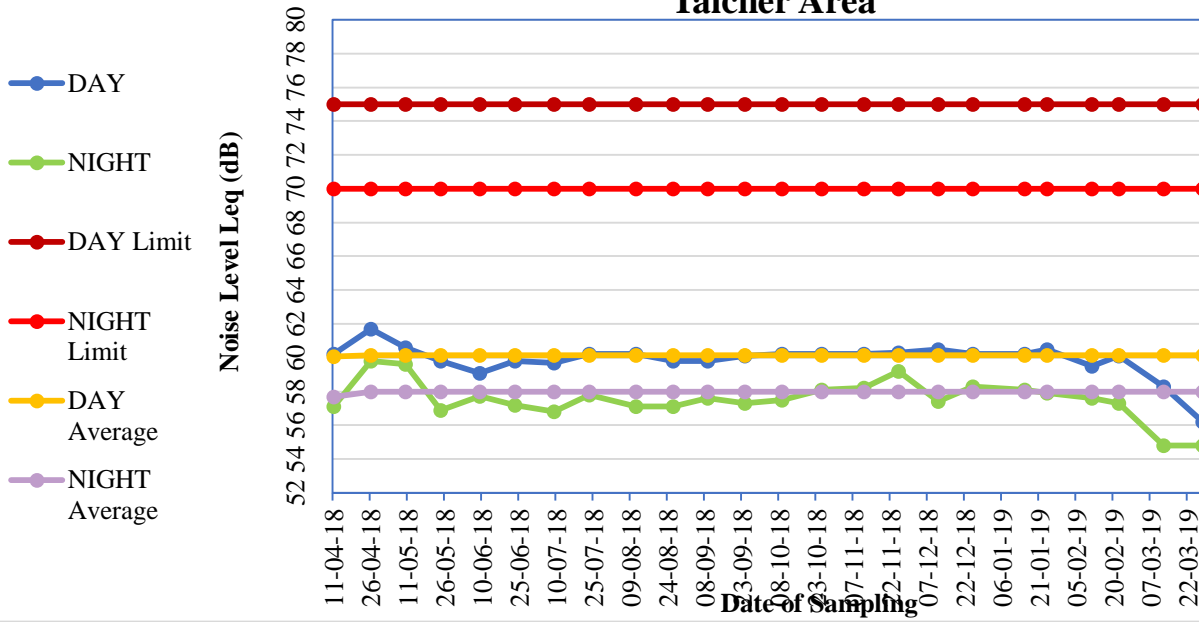
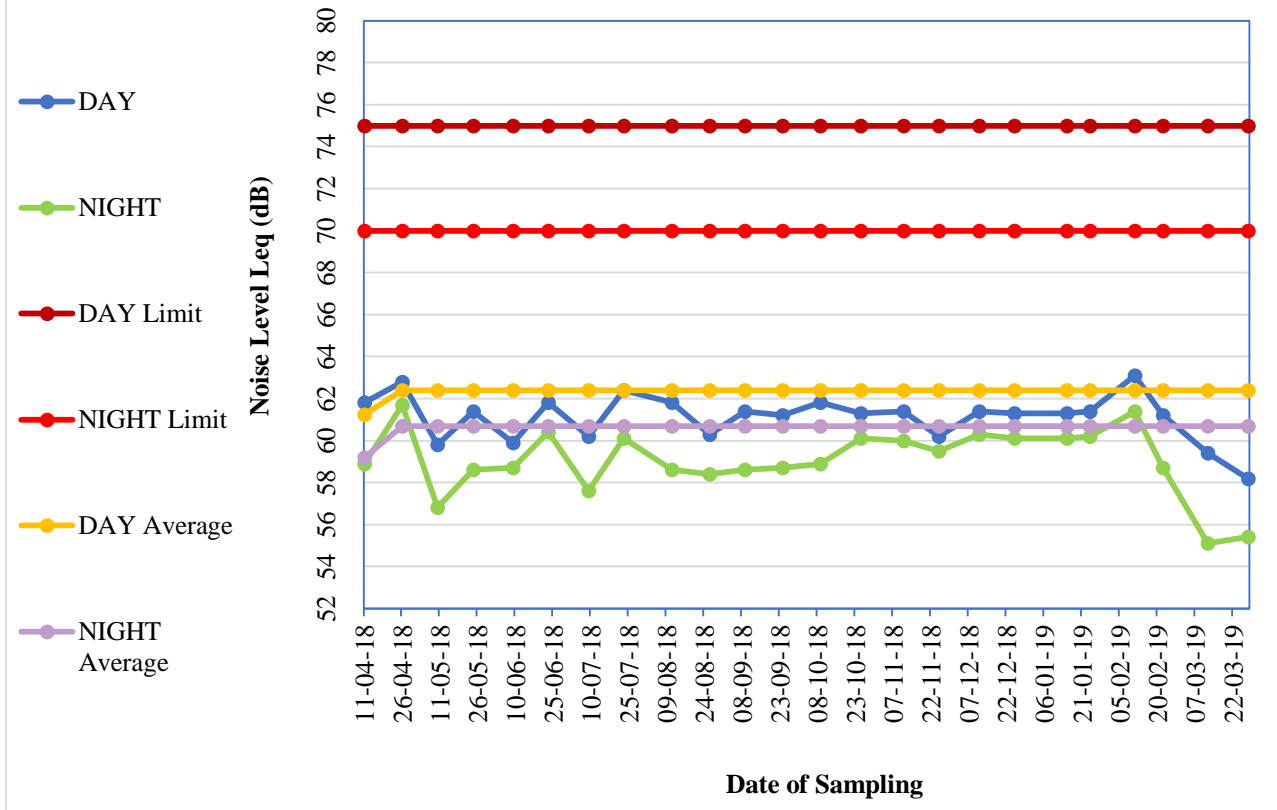


Table:124

Area: Talcher
Project: Talcher Colliery
Monitoring Station: Manager's Office

| DATE OF SAMPLING | DAY (in dB) | NIGHT (in dB) |
|-------------------------|--------------------|----------------------|
| 11/04/18 | 61.8 | 58.9 |
| 26/04/18 | 62.8 | 61.7 |
| 10/05/18 | 59.8 | 56.8 |
| 24/05/18 | 61.4 | 58.6 |
| 09/06/18 | 59.9 | 58.7 |
| 23/06/18 | 61.8 | 60.4 |
| 09/07/18 | 60.2 | 57.6 |
| 23/07/18 | 62.4 | 60.1 |
| 11/08/18 | 61.8 | 58.6 |
| 26/08/18 | 60.3 | 58.4 |
| 09/09/18 | 61.4 | 58.6 |
| 24/09/18 | 61.2 | 58.7 |
| 09/10/18 | 61.8 | 58.9 |
| 25/10/18 | 61.3 | 60.1 |
| 11/11/18 | 61.4 | 60 |
| 25/11/18 | 60.2 | 59.5 |
| 11/12/18 | 61.4 | 60.3 |
| 25/12/18 | 61.3 | 60.1 |
| 15/01/19 | 61.3 | 60.1 |
| 24/01/19 | 61.4 | 60.2 |
| 11/02/19 | 63.1 | 61.4 |
| 22/02/19 | 61.2 | 58.7 |
| 12/03/19 | 59.4 | 55.1 |
| 28/03/19 | 58.2 | 55.4 |
| Brief Statistic | Day | Night |
| Minimum | 58.2 | 55.1 |
| Maximum | 63.1 | 61.7 |
| Mean | 61.1 | 59.0 |
| Noise Standard | 75 | 70 |

Graph showing Noise in Manager's Office, Deulbera Colliery of Talcher Area



TABLES FOR EFFLUENT WATER QUALITY DATA

Table:125

Area: Jagannath

Project: Jagannath OCP

Monitoring Station: O & G Trap Inlet

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|-------------|---------------------|------------|------------|
| 15/06/18 | Dry | | | |
| 14/09/18 | 7.8 | <4.0 | 142 | 280 |
| 15/12/18 | Dry | | | |
| 14/03/19 | Maintenance | | | |

All values are in mg/L except pH

Table:118

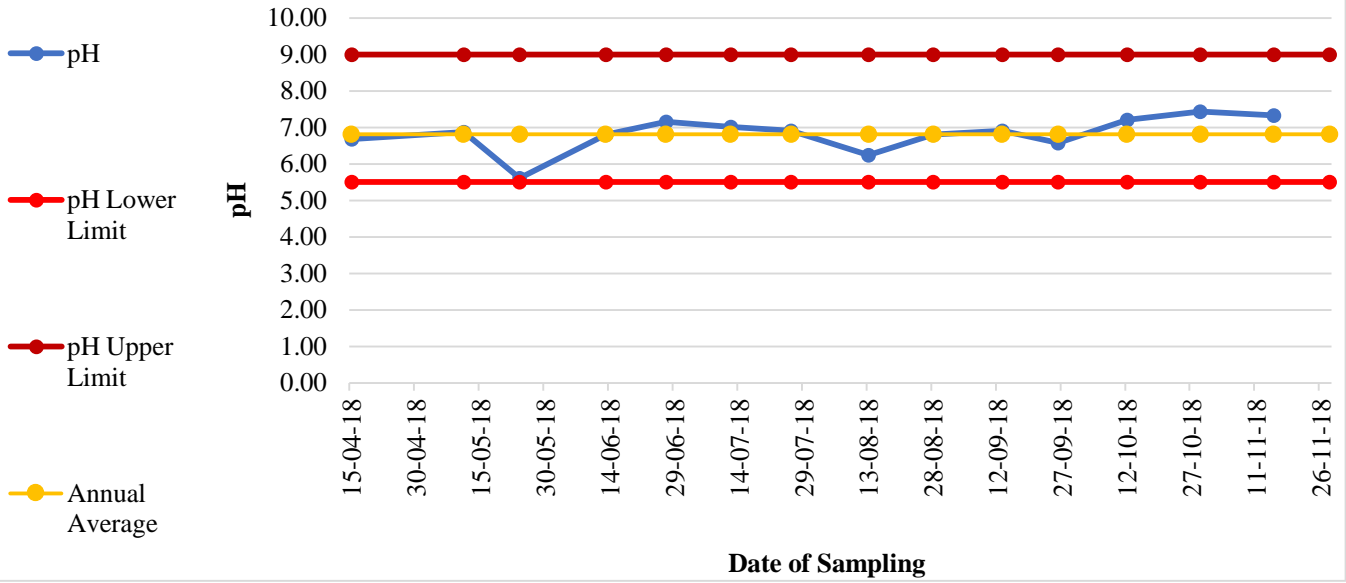
Area: Jagannath

Project: Jagannath OCP

Monitoring Station: O & G Trap Outlet

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|--------------|---------------------|------------|------------|
| 15/04/18 | 6.68 | <4.0 | 24 | 20 |
| 11/05/18 | 6.88 | <4.0 | 8 | 76 |
| 24/05/18 | 5.62 | 5 | 7 | 20 |
| 13/06/18 | 6.81 | <4.0 | 18 | 96 |
| 27/06/18 | 7.15 | 7.2 | 117.6 | 80 |
| 12/07/18 | 7.01 | <4.0 | 15 | 24 |
| 26/07/18 | 6.91 | <4.0 | 15 | 44 |
| 13/08/18 | 6.24 | <4.0 | 293 | 236 |
| 28/08/18 | 6.8 | <4.0 | 8 | 44 |
| 13/09/18 | 6.91 | <4.0 | 97 | 24 |
| 26/09/18 | 6.57 | 5.2 | 149.2 | 240 |
| 12/10/18 | 7.2 | <4.0 | 24 | 16 |
| 29/10/18 | 7.43 | <4.0 | 36 | 54 |
| 15/11/18 | 7.33 | <4.0 | 34 | 16 |
| 28/11/18 | No Discharge | | | |

Graph showing for pH of O & G Trap Outlet



Graph showing for TSS of O & G Trap Outlet

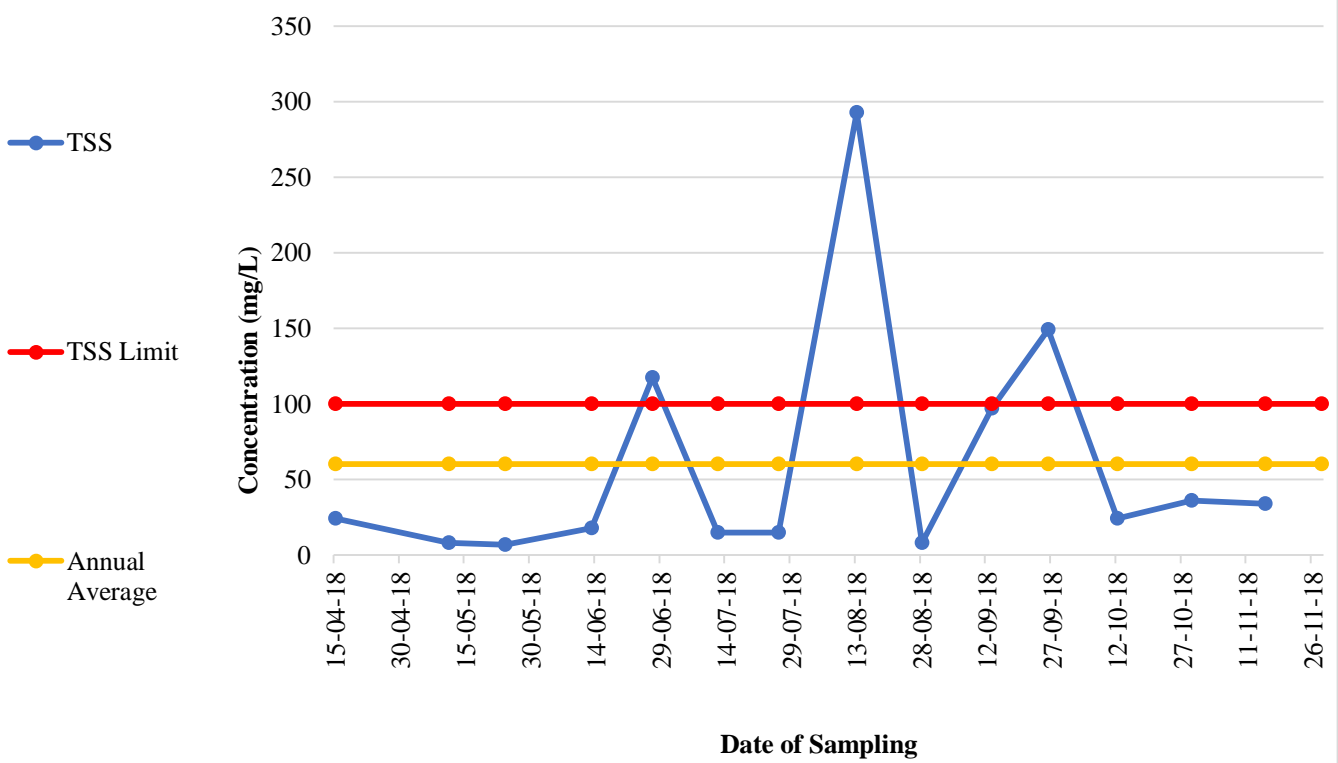
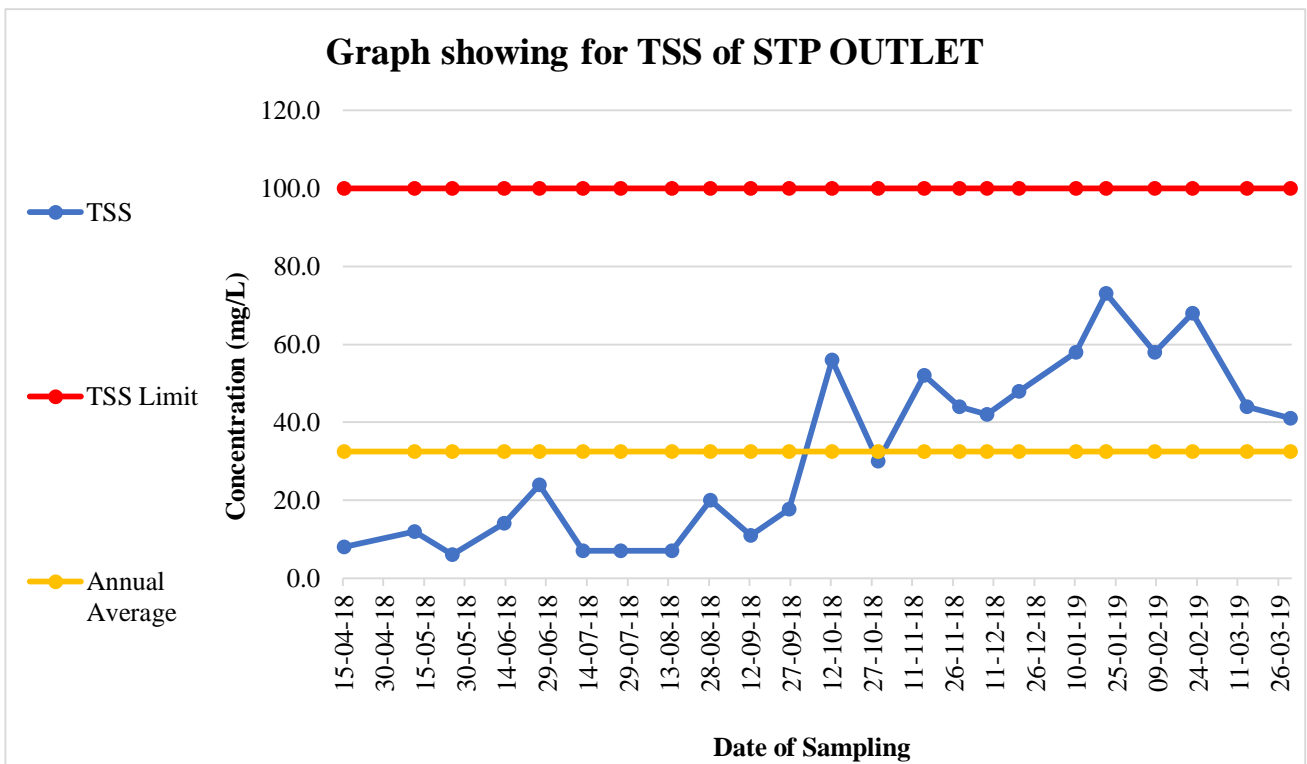
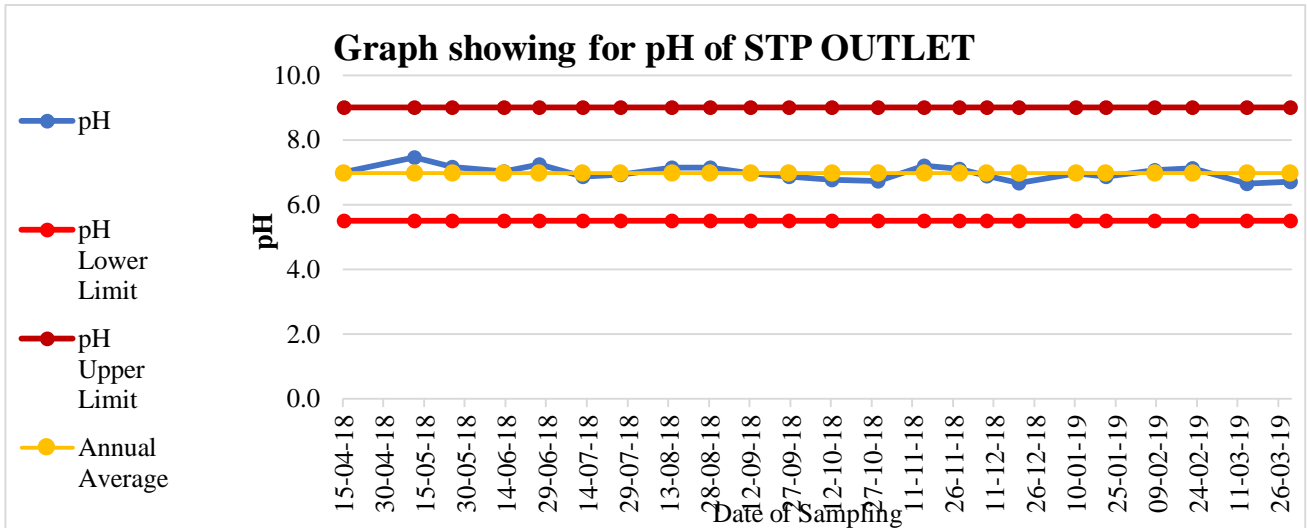


Table:126
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: STP Inlet

| Date of Sampling | pH | TSS (mg/l) | BOD (mg/l) |
|------------------|------|------------|------------|
| 27/04/18 | 6.75 | 22 | 3.00 |
| 13/06/18 | 6.76 | 22 | 2.20 |
| 13/09/18 | 6.6 | 26 | 2.40 |
| 08/12/18 | 7.32 | 64 | 4.60 |
| 14/03/19 | 7.29 | 67 | 3.60 |

Table:127
Project: Jagannath OCP
Monitoring Station: STP Outlet

| Date of Sampling | pH | TSS (mg/l) | BOD (mg/l) |
|------------------|------|------------|------------|
| 15/04/18 | 7.01 | 8.0 | 3.0 |
| 11/05/18 | 7.47 | 12.0 | 2.4 |
| 25/05/18 | 7.17 | 6.0 | 0.7 |
| 13/06/18 | 7.04 | 14.0 | 1.5 |
| 26/06/18 | 7.25 | 24.0 | 0.7 |
| 12/07/18 | 6.88 | 7.0 | 3.0 |
| 26/07/18 | 6.93 | 7.0 | 2.8 |
| 14/08/18 | 7.16 | 7.0 | 2.3 |
| 28/08/18 | 7.15 | 20.0 | 1.2 |
| 12/09/18 | 6.98 | 11.0 | 1.6 |
| 26/09/18 | 6.88 | 17.6 | 1.4 |
| 12/10/18 | 6.77 | 56.0 | 9.0 |
| 29/10/18 | 6.73 | 30.0 | 4.0 |
| 15/11/18 | 7.20 | 52.0 | 5.4 |
| 28/11/18 | 7.12 | 44.0 | 3.0 |
| 08/12/18 | 6.90 | 42.0 | 3.6 |
| 20/12/18 | 6.67 | 48.0 | 3.6 |
| 10/01/19 | 6.98 | 58.0 | 4.0 |
| 21/01/19 | 6.88 | 73.0 | 3.8 |
| 08/02/19 | 7.08 | 58.0 | 2.8 |
| 22/02/19 | 7.13 | 68.0 | 3.4 |
| 14/03/19 | 6.65 | 44.0 | 2.4 |
| 30/03/19 | 6.72 | 41.0 | 3.4 |



Graph showing for BOD of STP OUTLET

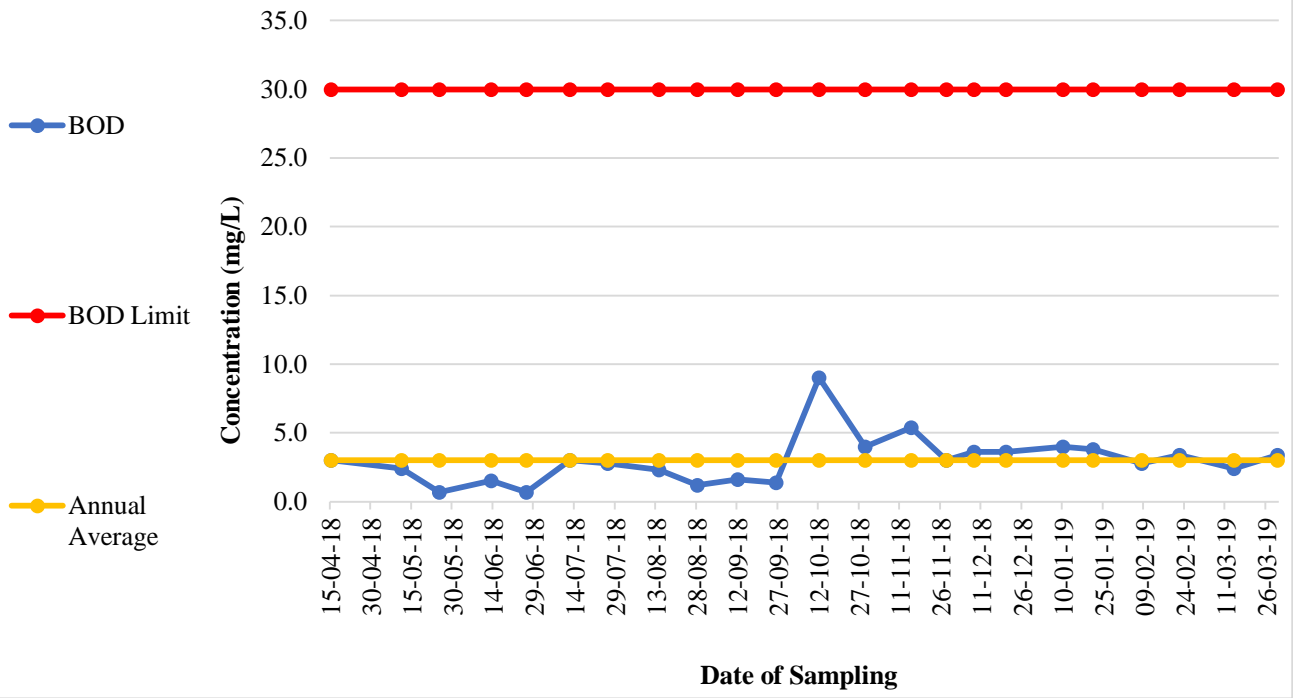


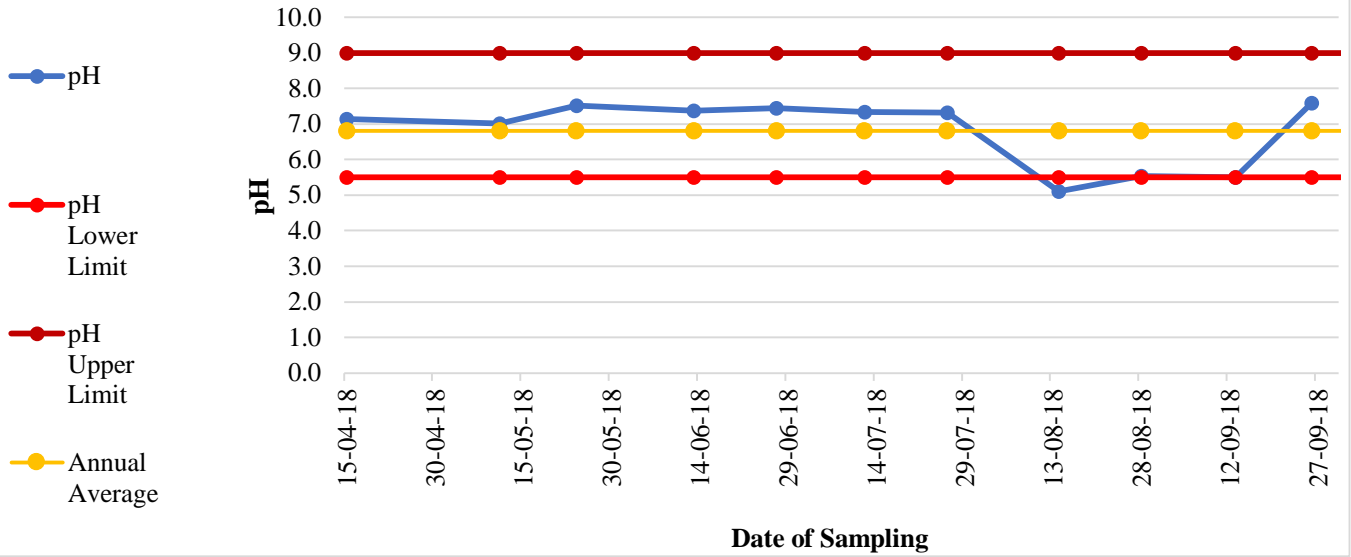
Table:128
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: MDTP Inlet

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 28/04/18 | 7.13 | <4.0 | 8 | 164 |
| 13/06/18 | 7.6 | <4.0 | 8 | 20 |
| 13/09/18 | 5.12 | <4.0 | 32 | 44 |
| 07/02/19 | Dry | | | |

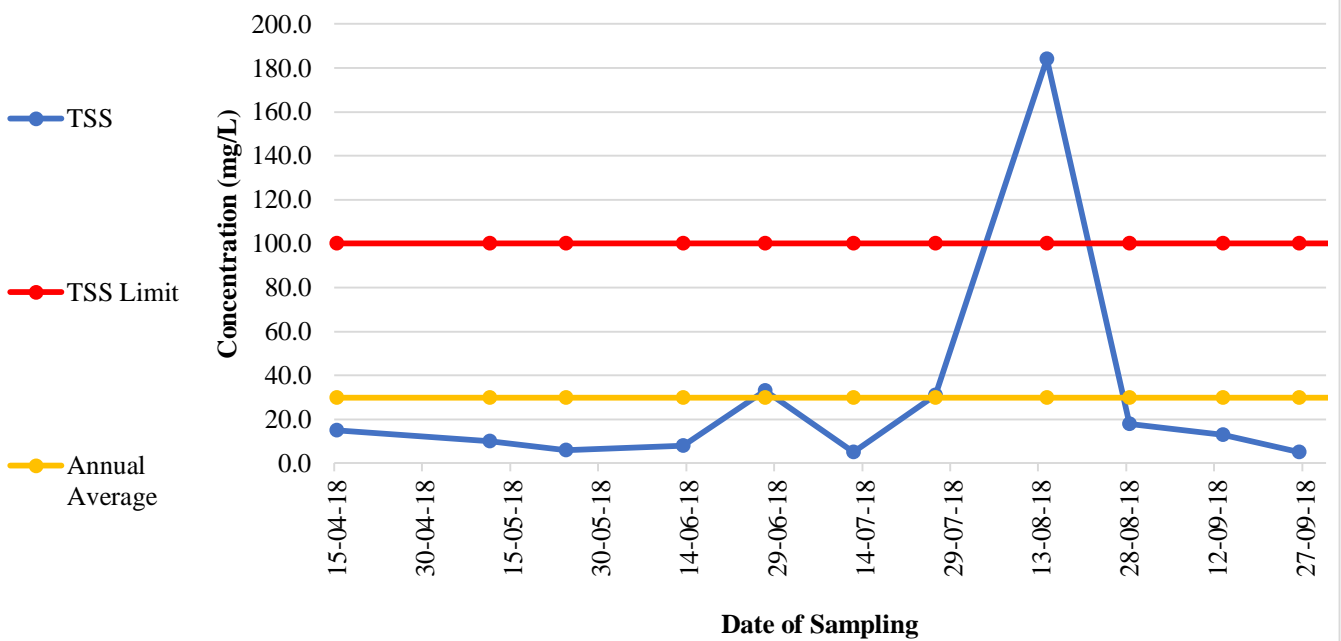
Table:129
Area: Jagannath
Project: Jagannath OCP
Monitoring Station: MDTP Outlet

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 15/04/18 | 7.14 | <4.0 | 15.00 | 32 |
| 11/05/18 | 7.02 | <4.0 | 10.00 | 28 |
| 24/05/18 | 7.51 | 7 | 6.00 | 12 |
| 13/06/18 | 7.38 | <4.0 | 8.00 | 36 |
| 27/06/18 | 7.45 | <4.0 | 33.20 | 64 |
| 12/07/18 | 7.33 | <4.0 | 5.00 | 4 |
| 26/07/18 | 7.32 | <4.0 | 31.00 | 48 |
| 14/08/18 | 5.11 | <4.0 | 184.00 | 44 |
| 28/08/18 | 5.53 | <4.0 | 18.00 | 92 |
| 13/09/18 | 5.51 | <4.0 | 13.00 | 20 |
| 26/09/18 | 7.58 | <4.0 | 5.20 | 36 |
| 12/10/18 | Inundated | | | |
| 29/10/18 | Inundated | | | |
| 28/11/18 | Inundated | | | |
| 14/03/19 | Inundated | | | |
| 30/03/19 | Inundated | | | |

Graph showing for pH of MDTP Outlet



Graph showing for TSS of MDTP Outlet



Graph showing for COD of MDTP Outlet

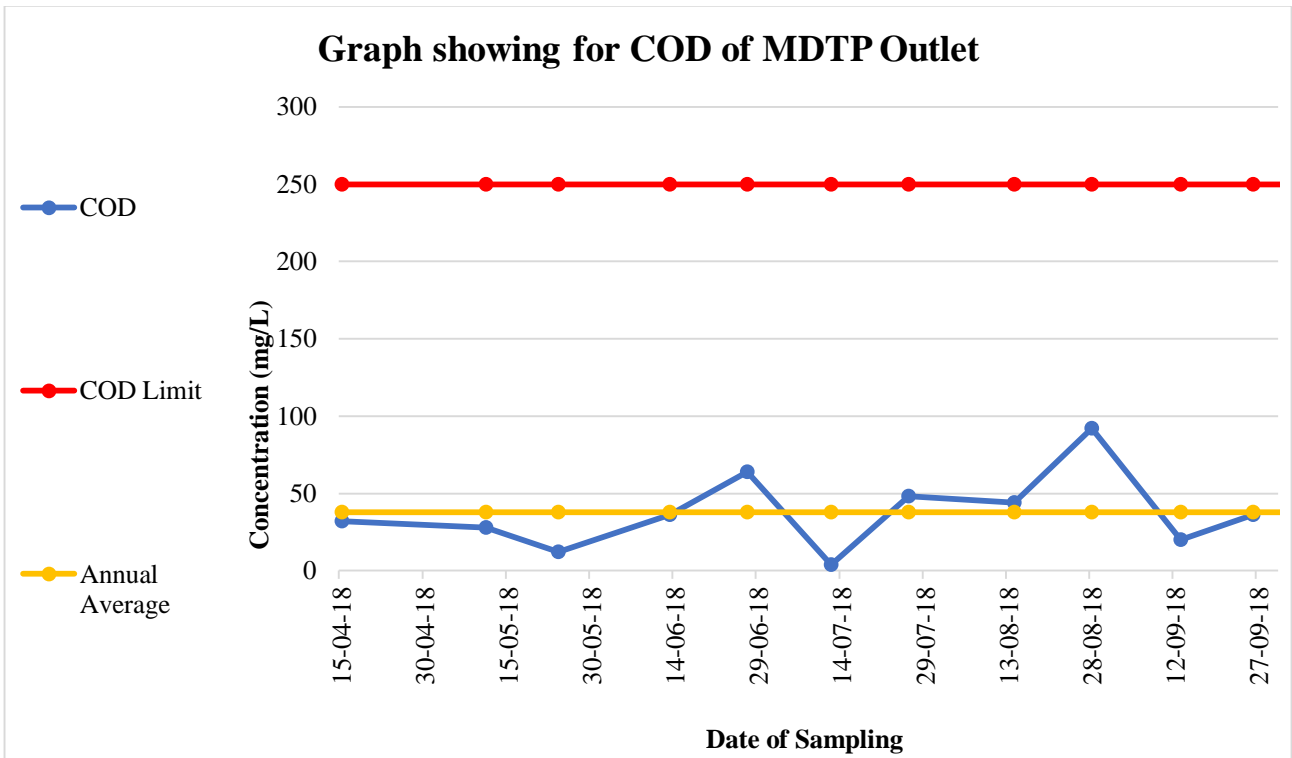


Table:130
Area: Jagannath
Project: Ananta OCP
Monitoring Station: Mine Sump

| Date of Sampling | pH |
|------------------|------|
| 21/01/19 | 6.67 |

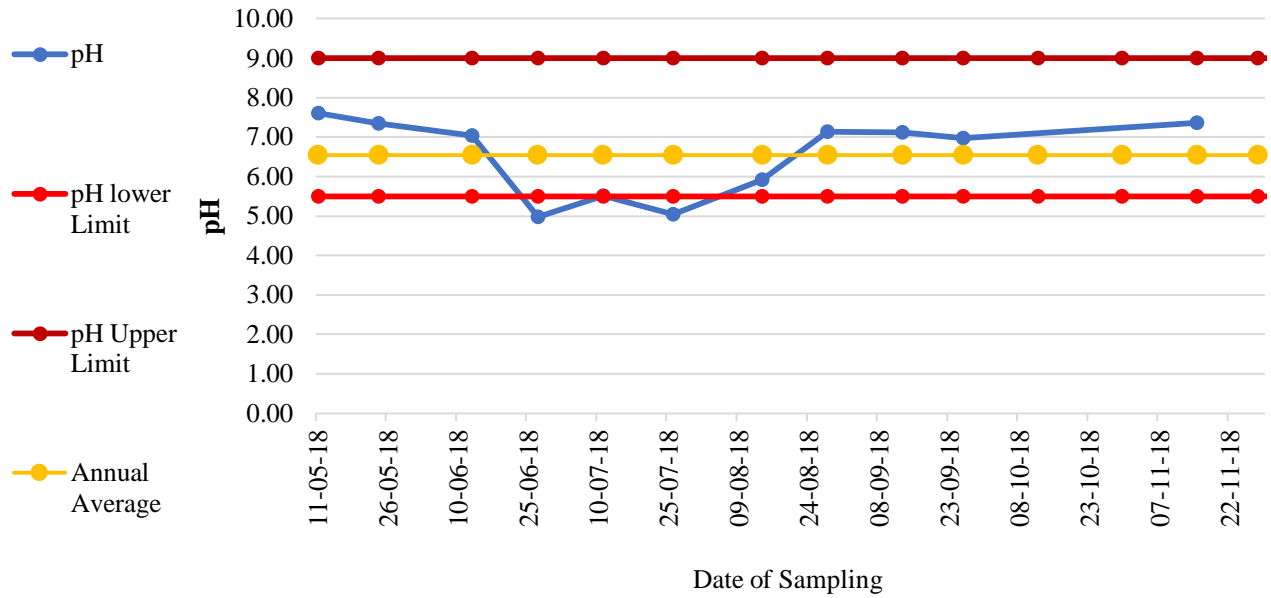
Table:131
Area: Jagannath
Project: Ananta OCP
Monitoring Station: O & G trap Inlet

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|------------|---------------------|------------|------------|
| 13/09/18 | 7.35 | <4.0 | 6 | 40 |
| 13/03/19 | Maintanace | | | |

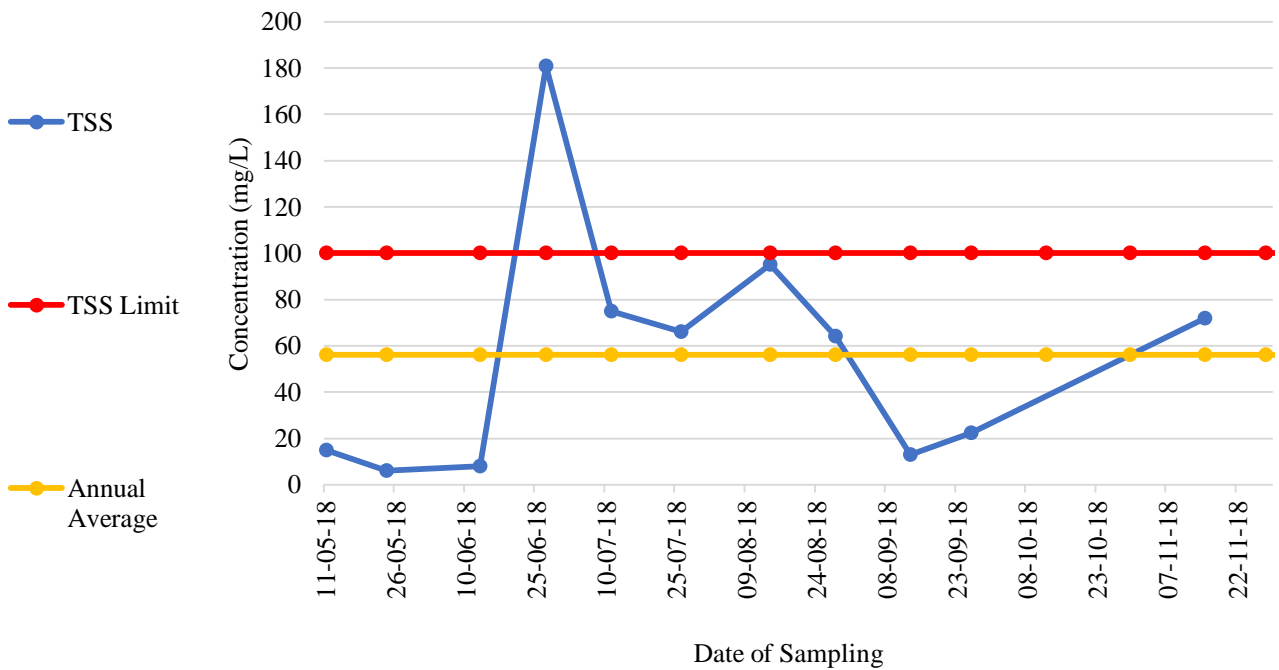
Table:132
Area: Jagannath
Project: Ananta OCP
Monitoring Station: O & G trap Outlet

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|------------------------|--------------------------------|-------------------|-------------------|
| 15-04-18 | 6.77 | <4.0 | 15.2 | 28 |
| 28-04-18 | 6.3 | <4.0 | 9 | 176 |
| 11/05/18 | 7.60 | <4.0 | 15 | 24 |
| 24/05/18 | 7.35 | <4.0 | 6 | 24 |
| 13/06/18 | 7.03 | <4.0 | 8 | 24 |
| 27/06/18 | 4.98 | 8.4 | 180.8 | 242 |
| 11/07/18 | 5.51 | <4.0 | 75 | 68 |
| 26/07/18 | 5.04 | 7.6 | 66 | 96 |
| 14/08/18 | 5.92 | 4.6 | 95 | 116 |
| 28/08/18 | 7.13 | <4.0 | 64 | 52 |
| 13/09/18 | 7.12 | <4.0 | 13 | 28 |
| 26/09/18 | 6.98 | <4.0 | 22.4 | 32 |
| 12/10/18 | Not Functioning | | | |
| 30/10/18 | Not Functioning | | | |
| 15/11/18 | 7.36 | <4.0 | 72 | 48 |
| 28/11/18 | No Discharge | | | |
| 07/12/18 | Cleaning & Rennovation | | | |
| 20/12/18 | Cleaning & Rennovation | | | |
| 13/03/19 | Maintanace | | | |
| 29/03/19 | Maintanance | | | |

Graph showing for pH of O & G Trap Outlet



Graph showing for TSS of O & G Trap Outlet



Graph showing for COD of O & G Trap Outlet

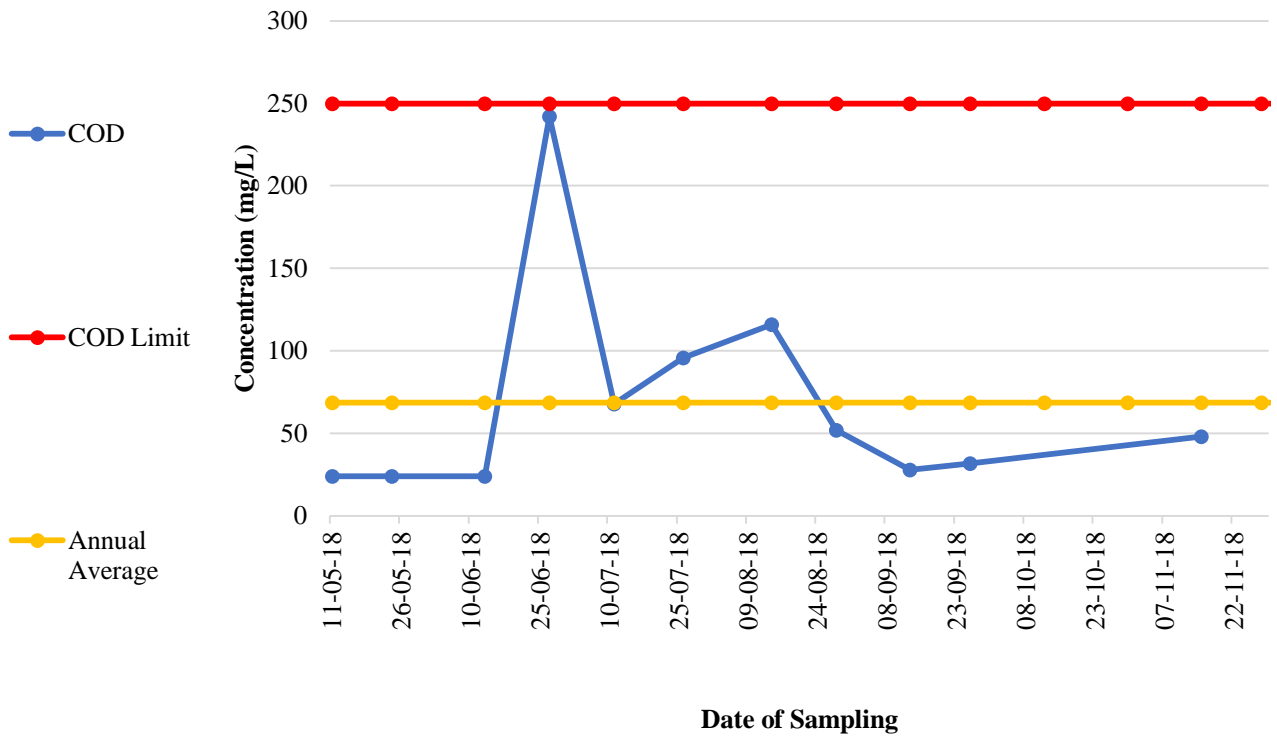


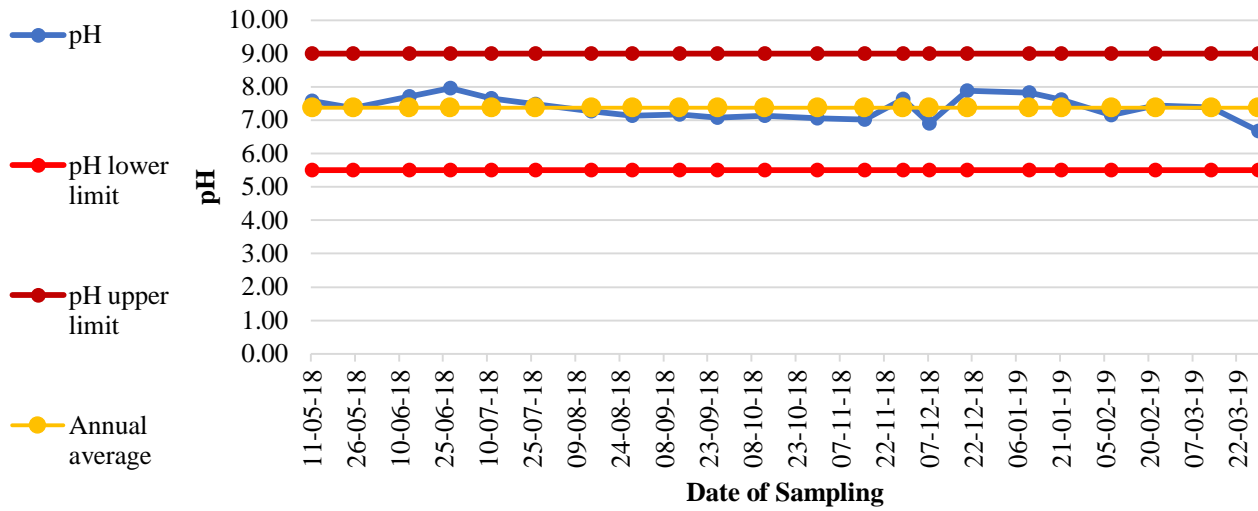
Table:133
Area: Jagannath
Project: Ananta OCP
Monitoring Station: STP Inlet

| Date of Sampling | pH | TSS (mg/l) | BOD (mg/l) |
|-------------------------|-----------|-------------------|-------------------|
| 13/09/18 | 7.51 | 44 | 2.8 |
| 07/12/18 | 7.56 | 20 | 1.6 |
| 13/03/19 | 7.74 | 38 | 2.3 |

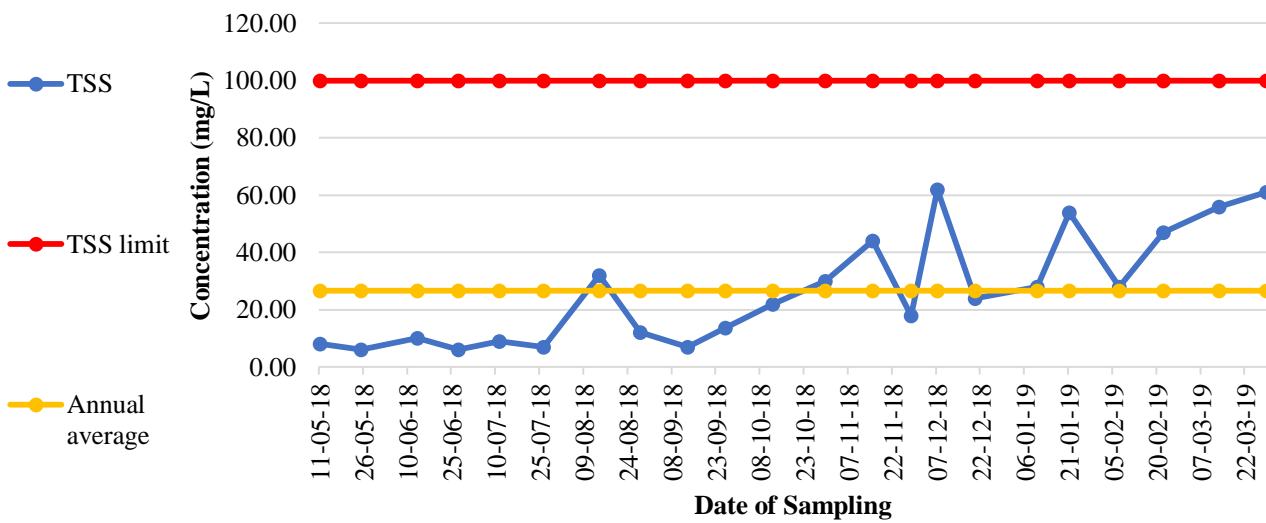
Table:134
Area: Jagannath
Project: Ananta OCP
Monitoring Station: STP Outlet

| Date of Sampling | pH | TSS (mg/l) | BOD (mg/l) |
|-------------------------|-----------|-------------------|-------------------|
| 15-04-18 | 7.88 | 7.60 | 8.00 |
| 28-04-18 | 7.52 | 9.00 | 5.00 |
| 11/05/18 | 7.58 | 8.00 | 3.30 |
| 25/05/18 | 7.37 | 6.00 | 0.40 |
| 13/06/18 | 7.71 | 10.00 | 4.00 |
| 27/06/18 | 7.95 | 6.00 | 0.40 |
| 11/07/18 | 7.65 | 9.00 | 3.40 |
| 26/07/18 | 7.47 | 7.00 | 4.00 |
| 14/08/18 | 7.26 | 32.00 | 1.90 |
| 28/08/18 | 7.14 | 12.00 | 2.00 |
| 13/09/18 | 7.17 | 7.00 | 1.00 |
| 26/09/18 | 7.07 | 13.60 | 2.60 |
| 12/10/18 | 7.13 | 22.00 | 3.00 |
| 30/10/18 | 7.05 | 30.00 | 3.00 |
| 15/11/18 | 7.02 | 44.00 | 4.00 |
| 28/11/18 | 7.63 | 18.00 | 1.00 |
| 07/12/18 | 6.90 | 62.00 | 4.80 |
| 20/12/18 | 7.88 | 24.00 | 2.10 |
| 10/01/19 | 7.82 | 28.00 | 2.10 |
| 21/01/19 | 7.61 | 54.00 | 2.90 |
| 07/02/19 | 7.16 | 28.00 | 2.20 |
| 22/02/19 | 7.44 | 47.00 | 2.60 |
| 13/03/19 | 7.38 | 56.00 | 3.20 |
| 29/03/19 | 6.68 | 61.00 | 4.40 |

Graph showing for pH of STP OUTLET



Graph showing for TSS of STP OUTLET



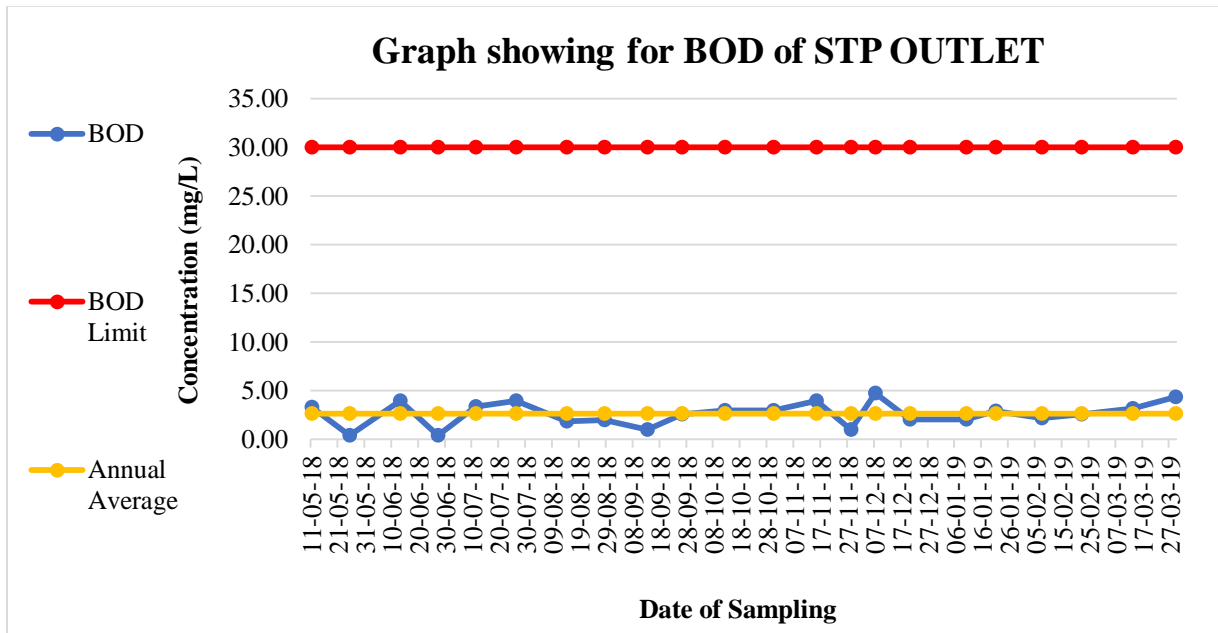


Table:135
Area: Bharatpur
Project: Bharatpur OCP
Mine Sump Water-Main Sump (1P)

| Date of Sampling | pH | pH Lower Limit | pH Upper Limit |
|-------------------------|-----------|-----------------------|-----------------------|
| 13/04/2018 | 7.20 | 5.50 | 9.00 |
| 26/07/2018 | 6.80 | 5.50 | 9.00 |
| 31/10/2018 | 7.80 | 5.50 | 9.00 |
| 27/11/2018 | 5.30 | 5.50 | 9.00 |
| 23/01/2019 | 8.20 | 5.50 | 9.00 |

Table:136
Area: Bharatpur
Project: Bharatpur OCP
Sampling Station: Mine Sump Water-North Quarry Sump (1P)

| Date of Sampling | pH | pH Lower Limit | pH Upper Limit |
|-------------------------|-----------|-----------------------|-----------------------|
| 13/04/2018 | 4.53 | 5.50 | 9.00 |
| 26/07/2018 | 6.21 | 5.50 | 9.00 |
| 31/10/2018 | 7.85 | 5.50 | 9.00 |
| 27/11/2018 | 5.06 | 5.50 | 9.00 |
| 23/01/2019 | 4.73 | 5.50 | 9.00 |

Table:137
Area: Bharatpur
Project: Bharatpur OCP
Sampling Station: Mine Sump Water-South Quarry Sump (1P)

| Date of Sampling | pH | pH Lower Limit | pH Upper Limit |
|------------------|------|----------------|----------------|
| 13/04/2018 | 6.51 | 5.50 | 9.00 |
| 13/04/2018 | 7.15 | 5.50 | 9.00 |
| 31/10/2018 | 7.79 | 5.50 | 9.00 |
| 27/11/2018 | 6.73 | 5.50 | 9.00 |
| 23/01/2019 | 5 | 5.50 | 9.00 |

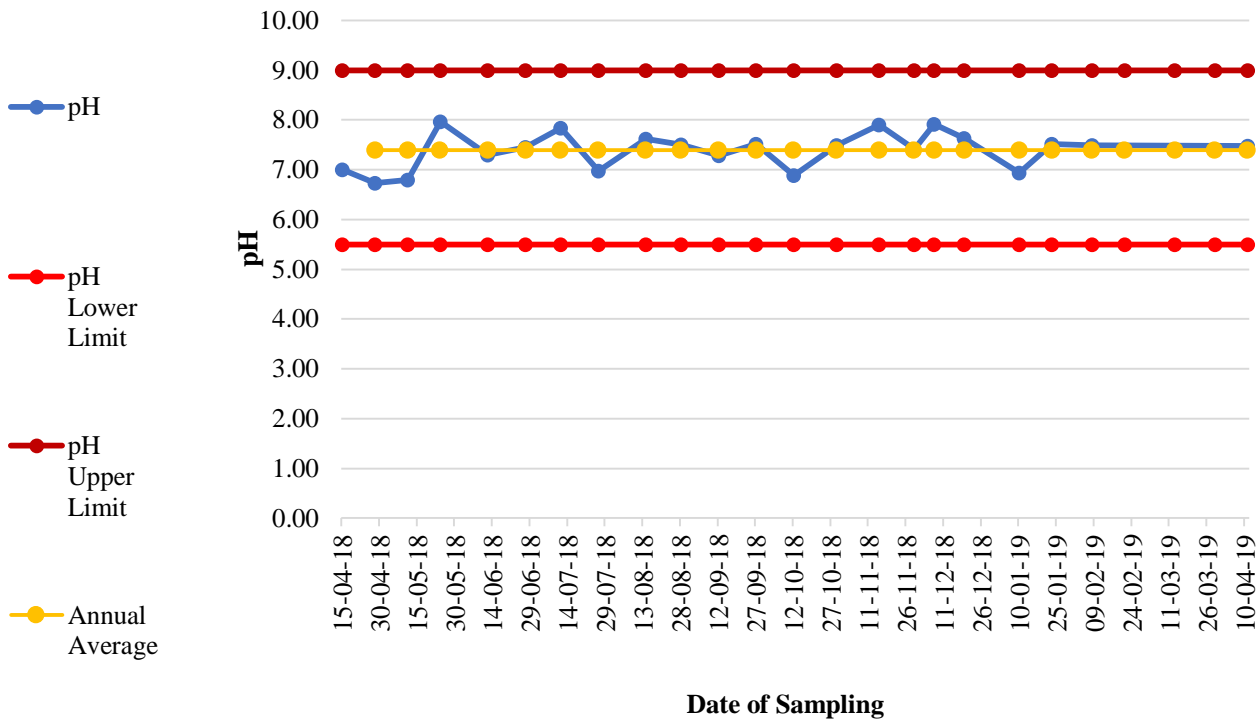
Table:138
Area: Bharatpur
Project: Bharatpur OCP
Sampling Station: Mine Sump Water-Old Quarry Sump (1P)

| Date of Sampling | pH | pH Lower Limit | pH Upper Limit |
|------------------|------|----------------|----------------|
| 13/04/2018 | 4.54 | 5.50 | 9.00 |
| 26/07/2018 | 6.37 | 5.50 | 9.00 |
| 31/10/2018 | 7.75 | 5.50 | 9.00 |
| 27/11/2018 | 7.11 | 5.50 | 9.00 |
| 23/01/2019 | 7.45 | 5.50 | 9.00 |

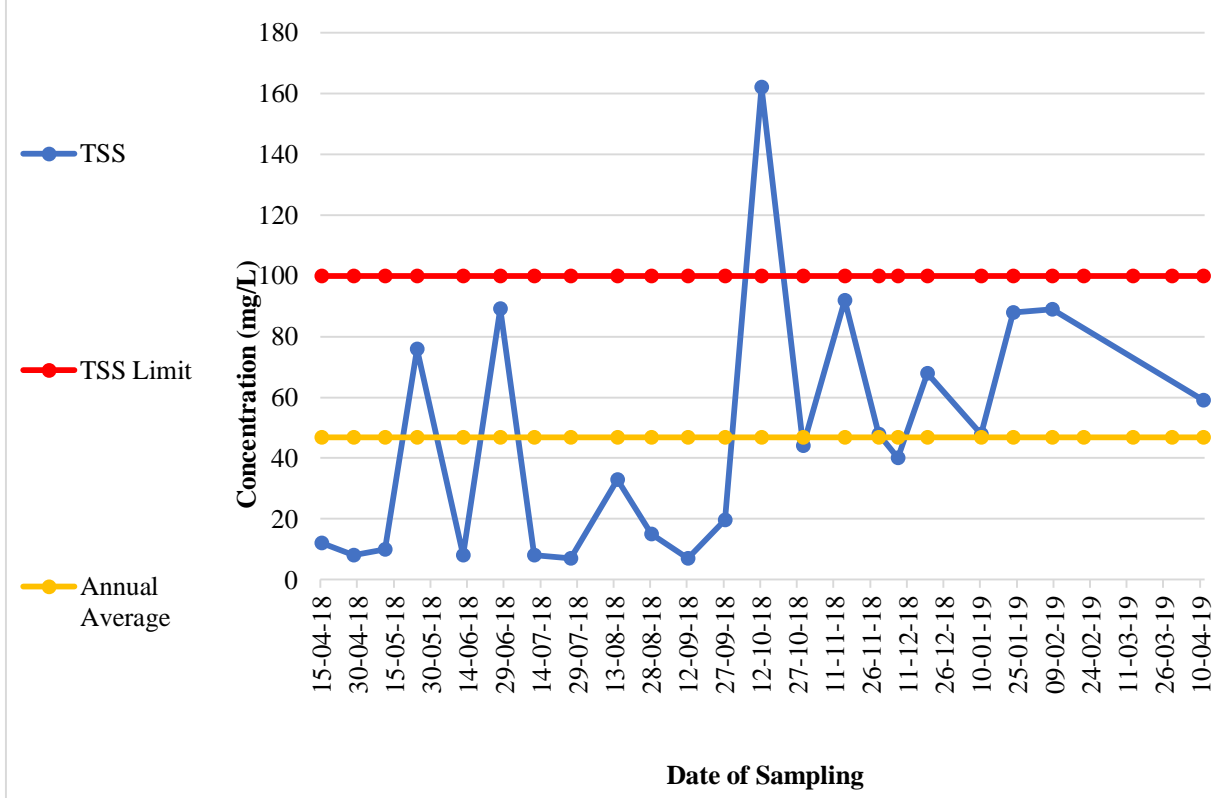
Table:139
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: O & G trap outlet (4P)

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) | Remarks |
|------------------|-------------|---------------------|------------|------------|---------|
| 15/04/18 | 7.00 | <4.0 | 12 | 36 | |
| 28/04/18 | 6.73 | <4.0 | 8 | 36 | |
| 11/05/18 | 6.79 | <4.0 | 10 | 28 | |
| 24/05/18 | 7.97 | <4.0 | 76 | 124 | |
| 12/06/18 | 7.30 | <4.0 | 8 | 40 | |
| 27/06/18 | 7.45 | 6.3 | 89.2 | 40 | |
| 11/07/18 | 7.84 | <4.0 | 8 | 36 | |
| 26/07/18 | 6.98 | 5.2 | 7 | 48 | |
| 14/08/18 | 7.62 | <4.0 | 33 | 64 | |
| 28/08/18 | 7.50 | <4.0 | 15 | 52 | |
| 12/09/18 | 7.29 | <4.0 | 7 | 32 | |
| 27/09/18 | 7.52 | <4.0 | 19.6 | 28 | |
| 12/10/18 | 6.89 | 5.2 | 162 | 196 | |
| 29/10/18 | 7.49 | <4.0 | 44 | 56 | |
| 15/11/18 | 7.90 | <4.0 | 92 | 80 | |
| 29/11/18 | 7.41 | <4.0 | 48 | 68 | |
| 07/12/18 | 7.92 | <4.0 | 40 | 32 | |
| 19/12/18 | 7.63 | <4.0 | 68 | 28 | |
| 10/01/19 | 6.94 | <4 | 48 | 20 | |
| 23/01/19 | 7.52 | 4.4 | 88 | 96 | |
| 08/02/19 | 7.49 | <4 | 89 | 40 | |
| 21/02/19 | Maintenance | | | | |
| 13/03/19 | Maintanace | | | | |
| 29/03/19 | Maintanance | | | | |
| 11/04/19 | 7.48 | <4.0 | 59 | 24 | |

Graph showing for pH of O & G Trap Outlet



Graph showing for TSS of O & G Trap Outlet



Graph showing for COD of O & G Trap Outlet

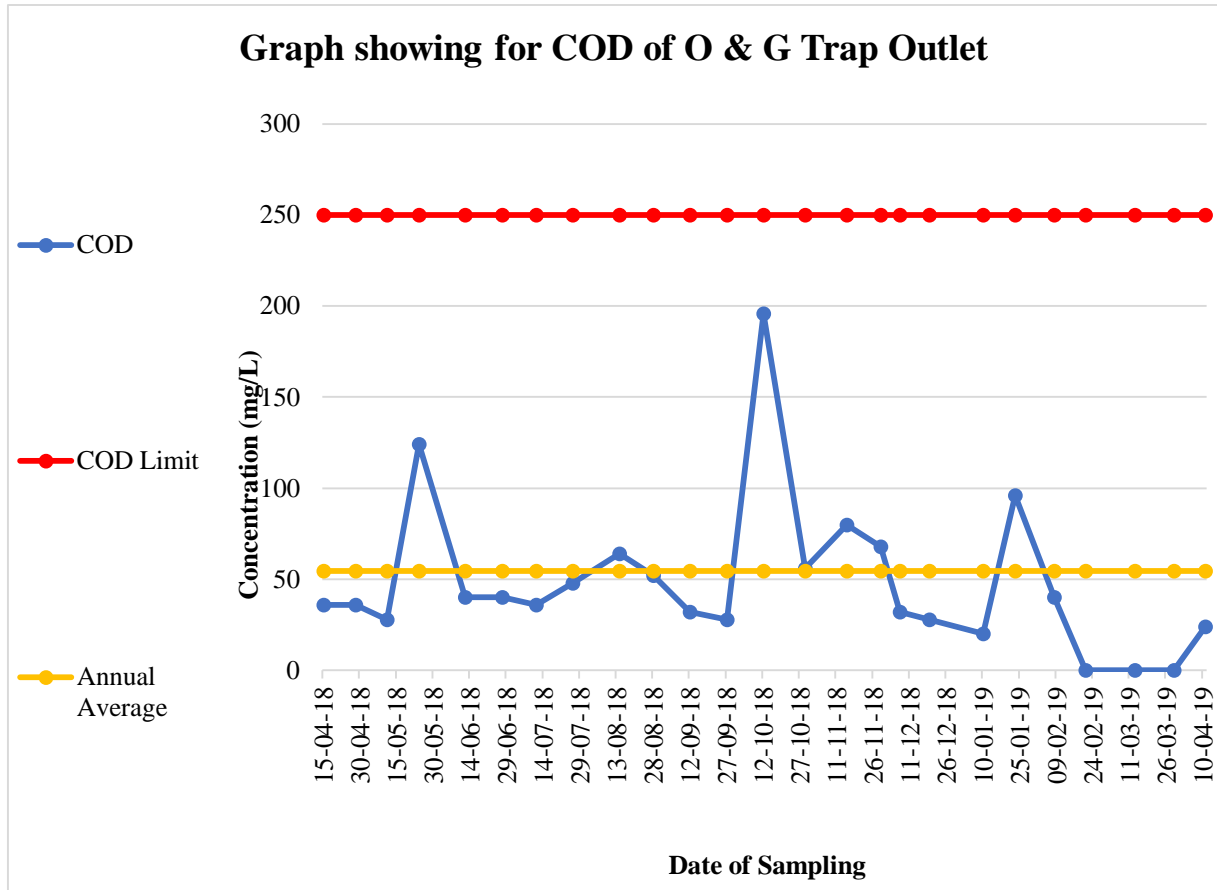
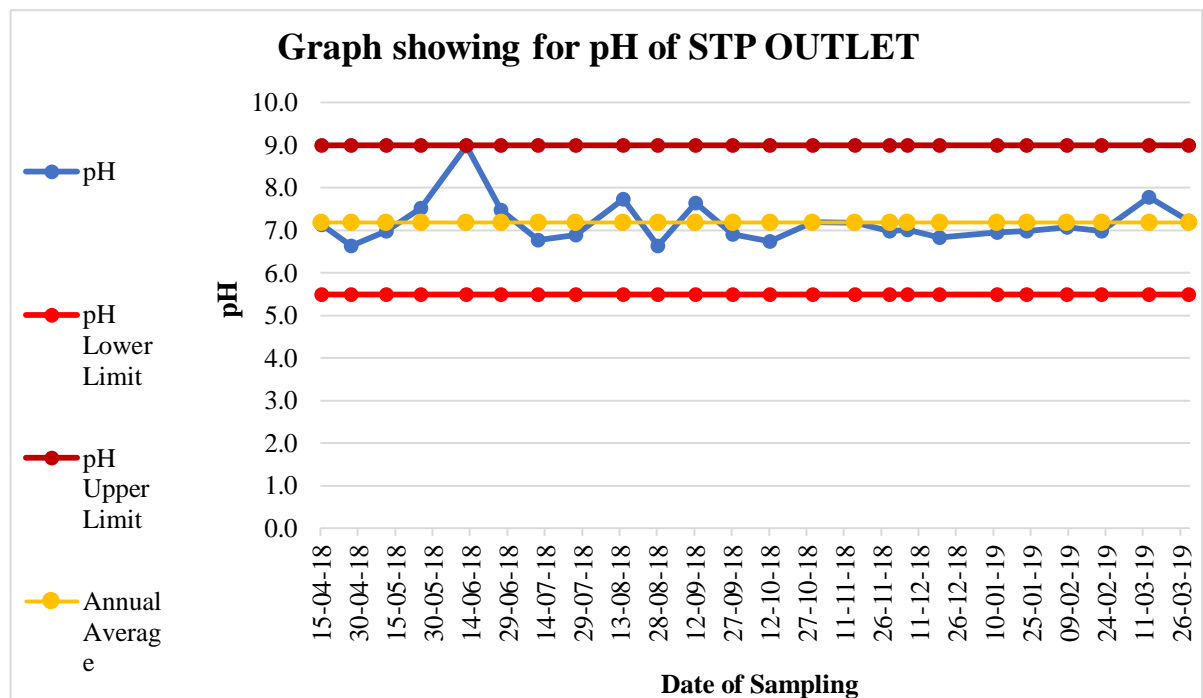
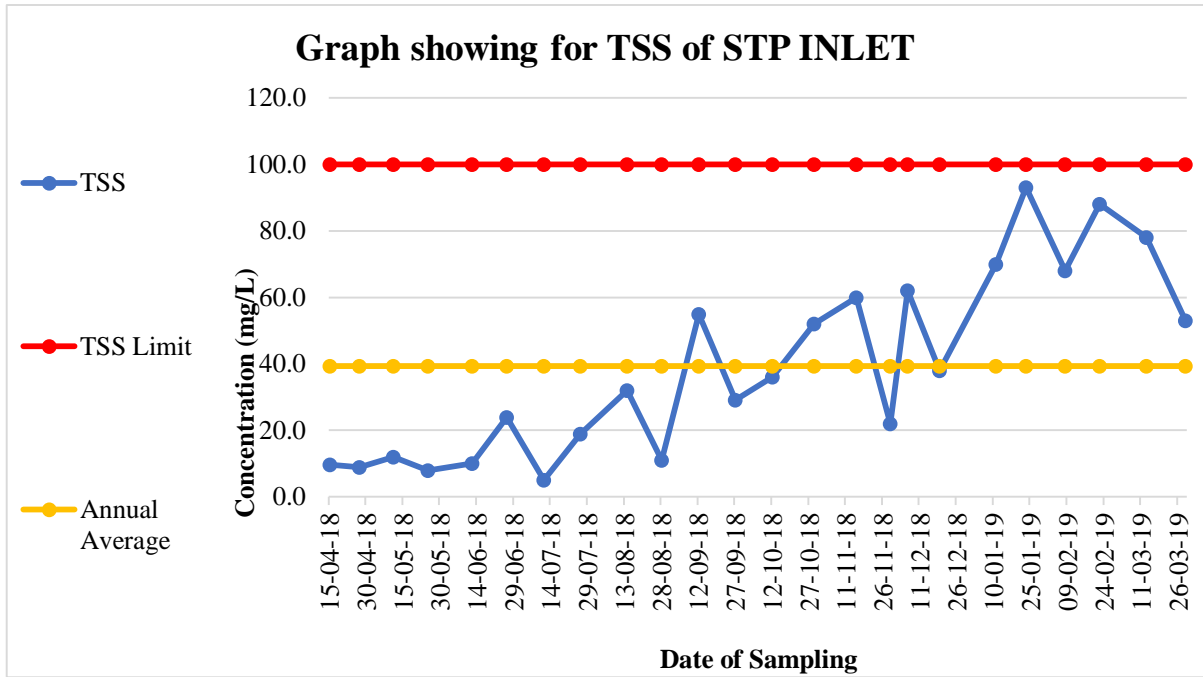


Table:140
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: STP Inlet

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|------|---------------------|------------|------------|
| 15/04/18 | 7.45 | 9.6 | #N/A | 6.0 |
| 27/04/18 | 6.8 | 9 | #N/A | 3.6 |
| 11/05/18 | 6.92 | 12 | 40 | 2.8 |
| 25/05/18 | 7.48 | 8 | 56 | 2.4 |
| 12/06/18 | 6.91 | 10 | 40 | 2.5 |
| 26/06/18 | 7.03 | 24 | #N/A | 2.8 |
| 11/07/18 | 7.48 | 5 | #N/A | 2.1 |
| 26/07/18 | 6.92 | 19 | 32 | 1.2 |
| 14/08/18 | 7.32 | 32 | 56 | 0.6 |
| 28/08/18 | 7.8 | 11 | 72 | 3.2 |
| 12/09/18 | 7.53 | 55 | 48 | 3.2 |
| 27/09/18 | 7.35 | 29.2 | 44 | 3.1 |
| 12/10/18 | 6.68 | 36 | 48 | 6.0 |
| 29/10/18 | 7.32 | 52 | 24 | 6.0 |
| 15/11/18 | 6.84 | 60 | 36 | 3.8 |
| 29/11/18 | 7.36 | 22 | 20 | 2.2 |
| 06/12/18 | 7.07 | 62 | 36 | #N/A |
| 19/12/18 | 7.54 | 38 | 48 | 4.1 |
| 11/01/19 | 7.05 | 70 | 76 | 4.3 |
| 23/01/19 | 7.05 | 93 | 56 | 4.1 |
| 08/02/19 | 6.81 | 68 | 32 | 3.8 |
| 22/02/19 | 6.94 | 88 | 52 | 3.2 |
| 13/03/19 | 7.28 | 78 | 68 | 4.4 |
| 29/03/19 | 7.6 | 53 | 28 | 2.8 |



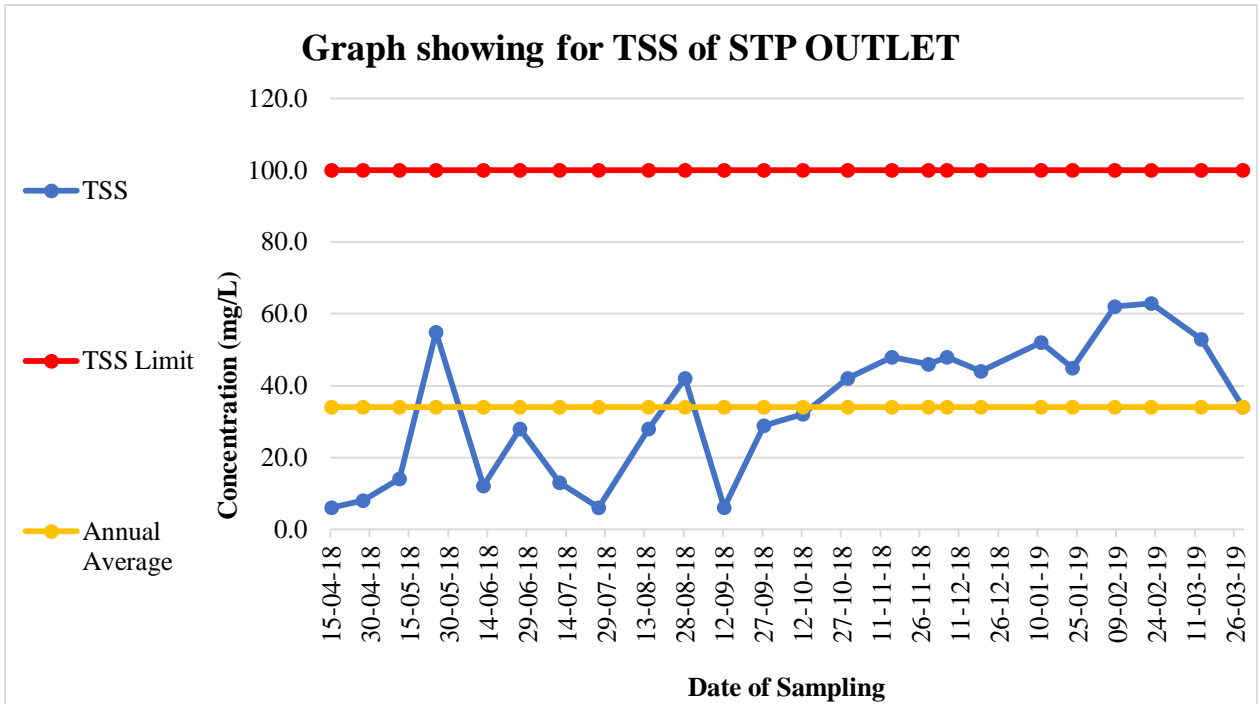


Table:141
Area: Bharatpur
Project: Bharatpur OCP
Monitoring Station: STP Outlet

| Date of Sampling | pH | TSS (mg/l) | BOD (mg/l) |
|-------------------------|-----------|-------------------|-------------------|
| 15/04/18 | 7.13 | 6.0 | 7.0 |
| 27/04/18 | 6.63 | 8.0 | 4.0 |
| 11/05/18 | 6.98 | 14.0 | 0.9 |
| 25/05/18 | 7.53 | 55.0 | 1.6 |
| 12/06/18 | 8.98 | 12.0 | 1.8 |
| 26/06/18 | 7.48 | 28.0 | 1.6 |
| 11/07/18 | 6.77 | 13.0 | 2.3 |
| 26/07/18 | 6.89 | 6.0 | 1.3 |
| 14/08/18 | 7.74 | 28.0 | 1.6 |
| 28/08/18 | 6.63 | 42.0 | 1.4 |
| 12/09/18 | 7.65 | 6.0 | 1.2 |
| 27/09/18 | 6.90 | 28.8 | 1.2 |
| 12/10/18 | 6.74 | 32.0 | 4.0 |
| 29/10/18 | 7.20 | 42.0 | 4.0 |
| 15/11/18 | 7.18 | 48.0 | 5.0 |
| 29/11/18 | 6.99 | 46.0 | 4.4 |
| 06/12/18 | 7.01 | 48.0 | #N/A |
| 19/12/18 | 6.83 | 44.0 | 2.4 |
| 11/01/19 | 6.95 | 52.0 | 3.6 |
| 23/01/19 | 6.99 | 45.0 | 2.2 |
| 08/02/19 | 7.08 | 62.0 | 3.0 |
| 22/02/19 | 6.99 | 63.0 | 2.0 |
| 13/03/19 | 7.78 | 53.0 | 3.2 |
| 29/03/19 | 7.23 | 34.0 | 2.1 |

Graph showing for TSS of STP OUTLET

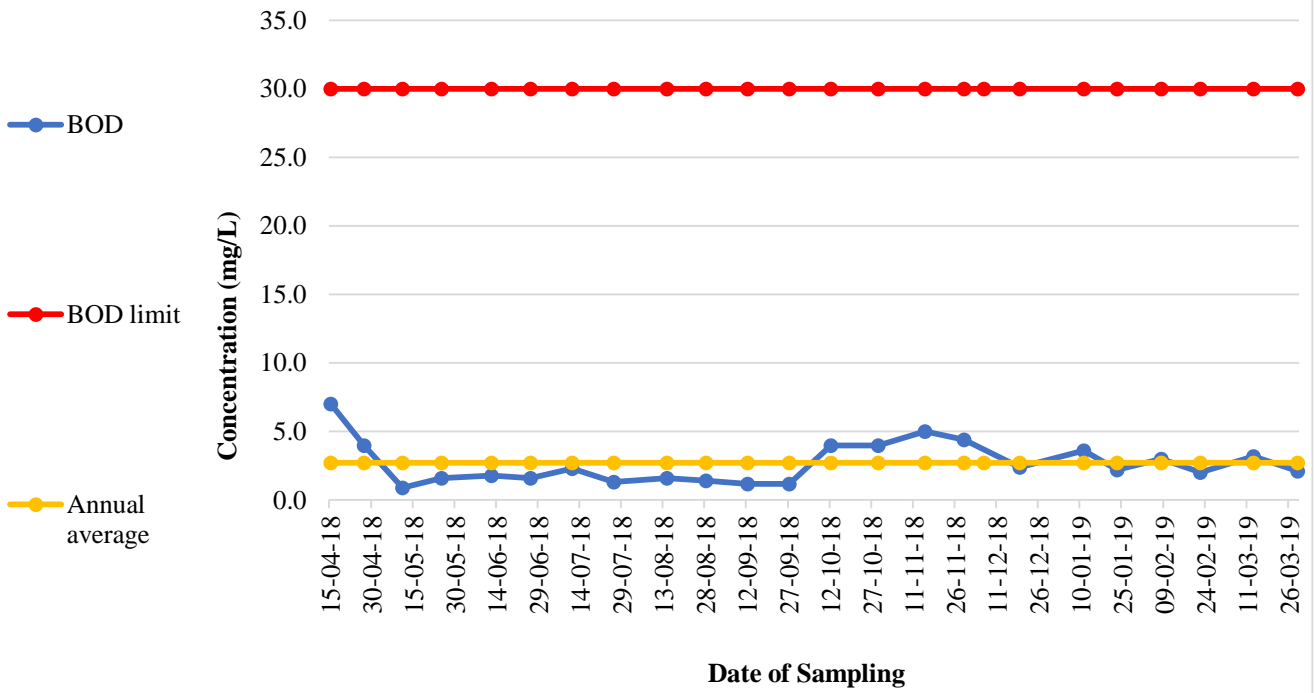


Table:142
Area: Lingraj
Project: Lingraj OCP
Monitoring Station: Outlet of Workshop (4P)

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|------|---------------------|------------|------------|
| 11/05/2018 | 7.79 | <4.0 | 12 | 32 |
| 06/08/2018 | DRY | | | |

Table:143
Area: Lingraj
Project: Lingraj OCP
Monitoring Station: Inlet of MDTP near stock no.17

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|-----|---------------------|------------|------------|
| 11/05/2018 | 7.9 | <4.0 | 14 | 28 |
| 06/08/2018 | 7.8 | <4.0 | 27 | 38 |

Table:144

Area: Lingraj

Project: Lingraj OCP

Monitoring Station: Clear Water Tank of MDTP Near Stock No. 17

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 11/05/2018 | 7.55 | <4.0 | 13 | 36 |
| 06/08/2018 | 7.72 | <4.0 | 28 | 32 |

Table:145

Area: Lingraj

Project: Lingraj OCP

Monitoring Station: Clear Water Tank of Sedimentation Pond Complex Near Lingraj Siding

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 11/05/2018 | 7.5 | <4.0 | 10 | 24 |
| 06/08/2018 | 7.9 | <4.0 | 63 | 68 |
| 14/11/2018 | 7.8 | <4.0 | 36 | 20 |
| 22/01/2019 | 7.4 | <4.0 | 65 | 36 |

Table:146

Area: Lingraj

Project: Lingraj OCP

Monitoring Station: Clear Water Tank of Sedimentation Pond Complex Near Deulbera

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 11/05/2018 | 7.24 | <4.0 | 18 | 12 |
| 06/08/2018 | 7.9 | <4.0 | 21 | 60 |
| 14/11/2018 | 7.46 | <4.0 | 66 | 28 |
| 22/01/2019 | 7.6 | <4.0 | 56 | 24 |

Table:147

Area: Lingraj

Project: Lingraj OCP

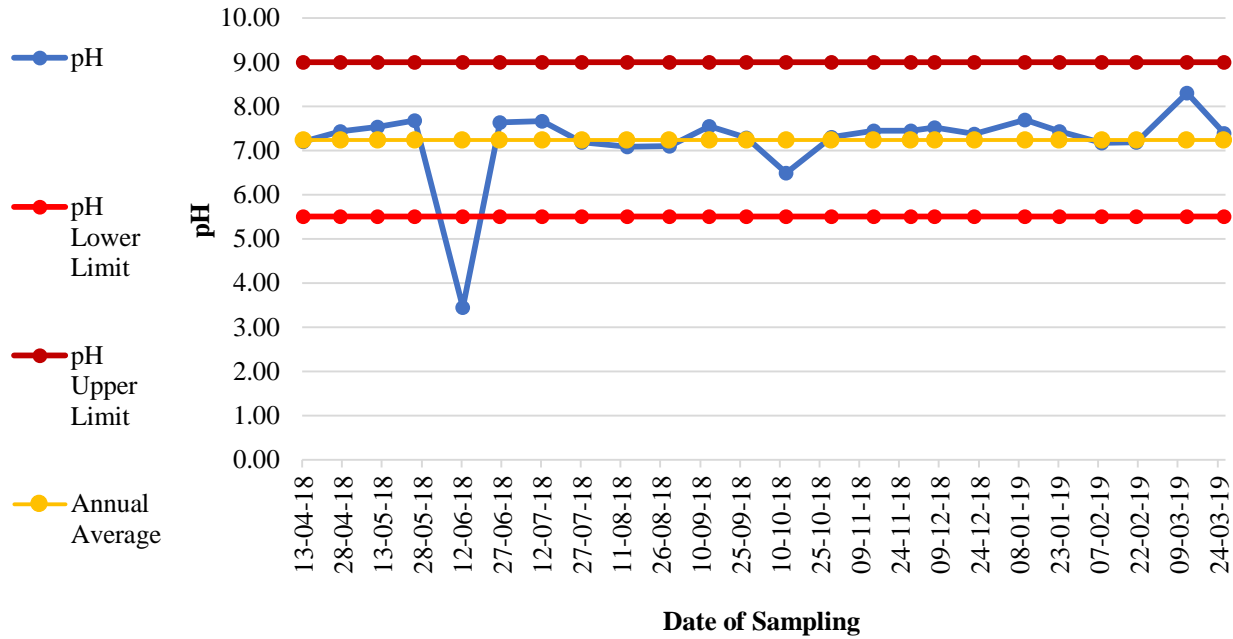
Monitoring Station: Mine Sump Water

| Date of Sampling | pH |
|-------------------------|-----------|
| 25/05/2018 | 7.85 |
| 13/08/2018 | 7.53 |
| 22/01/2019 | 7.86 |

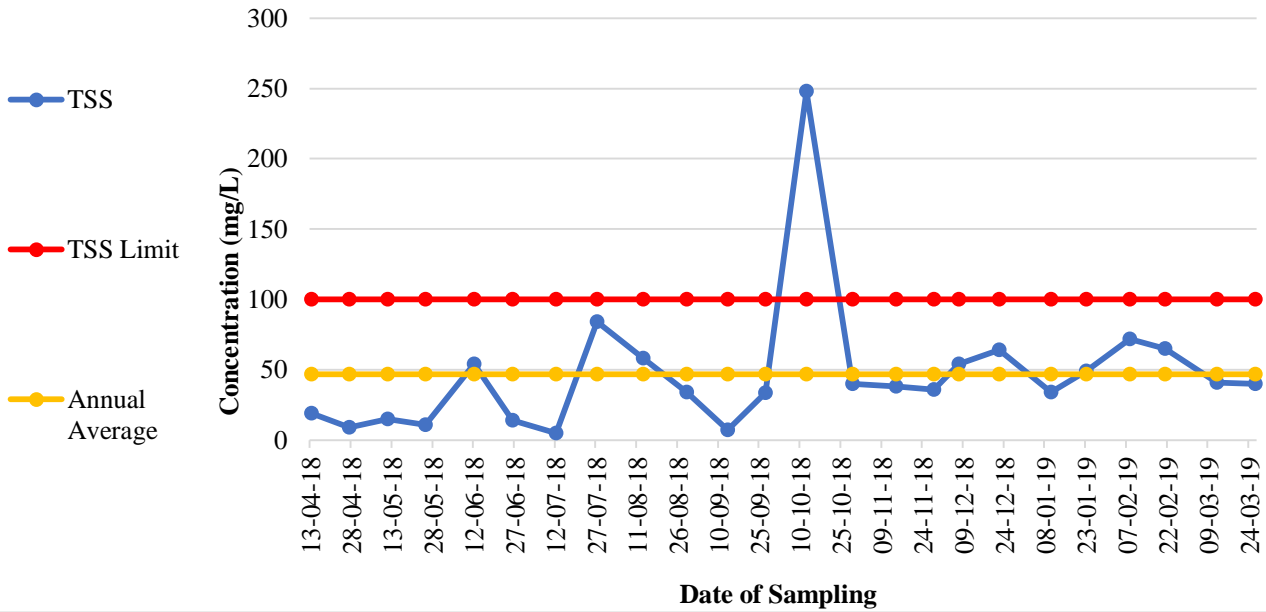
Table:148
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Pre Sedimentation Pond-I

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|------|---------------------|------------|------------|
| 13/04/18 | 7.2 | <4.0 | 19.2 | 24 |
| 27/04/18 | 7.43 | <4.0 | 9 | 40 |
| 11/05/18 | 7.53 | <4.0 | 15 | 36 |
| 25/05/18 | 7.68 | 5 | 11 | 24 |
| 12/06/18 | 3.45 | <4.0 | 54 | 48 |
| 26/06/18 | 7.64 | <4.0 | 14 | 20 |
| 12/07/18 | 7.67 | 8.4 | 5 | 20 |
| 27/07/18 | 7.19 | 4.8 | 84 | 60 |
| 13/08/18 | 7.09 | <4.0 | 58 | 76 |
| 29/08/18 | 7.1 | <4.0 | 34 | 24 |
| 13/09/18 | 7.55 | <4.0 | 7 | 44 |
| 27/09/18 | 7.29 | <4.0 | 33.6 | 28 |
| 12/10/18 | 6.49 | 6.4 | 248 | 360 |
| 29/10/18 | 7.31 | <4.0 | 40 | 52 |
| 14/11/18 | 7.45 | <4.0 | 38 | 24 |
| 28/11/18 | 7.45 | <4.0 | 36 | 32 |
| 07/12/18 | 7.52 | <4.0 | 54 | 32 |
| 22/12/18 | 7.38 | <4.0 | 64 | 32 |
| 10/01/19 | 7.7 | <4 | 34 | 16 |
| 23/01/19 | 7.44 | <4 | 49 | 16 |
| 08/02/19 | 7.17 | <4 | 72 | 44 |
| 21/02/19 | 7.19 | <4 | 65 | 36 |
| 12/03/19 | 8.31 | <4.0 | 41 | 12 |
| 26/03/19 | 7.39 | <4.0 | 40 | 16 |

Graph showing for pH of Pre Sedimentation Pond-I



Graph showing for TSS of Pre Sedimentation Pond-I



Graph showing for COD of Pre Sedimentation Pond-I

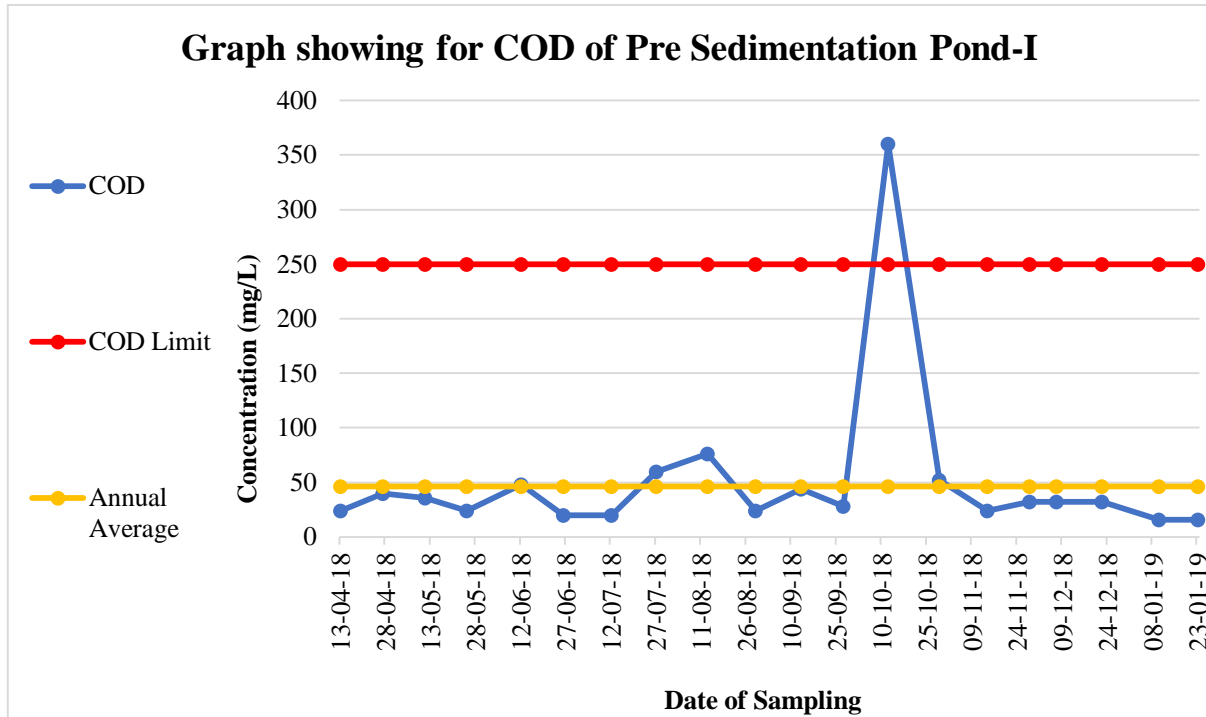
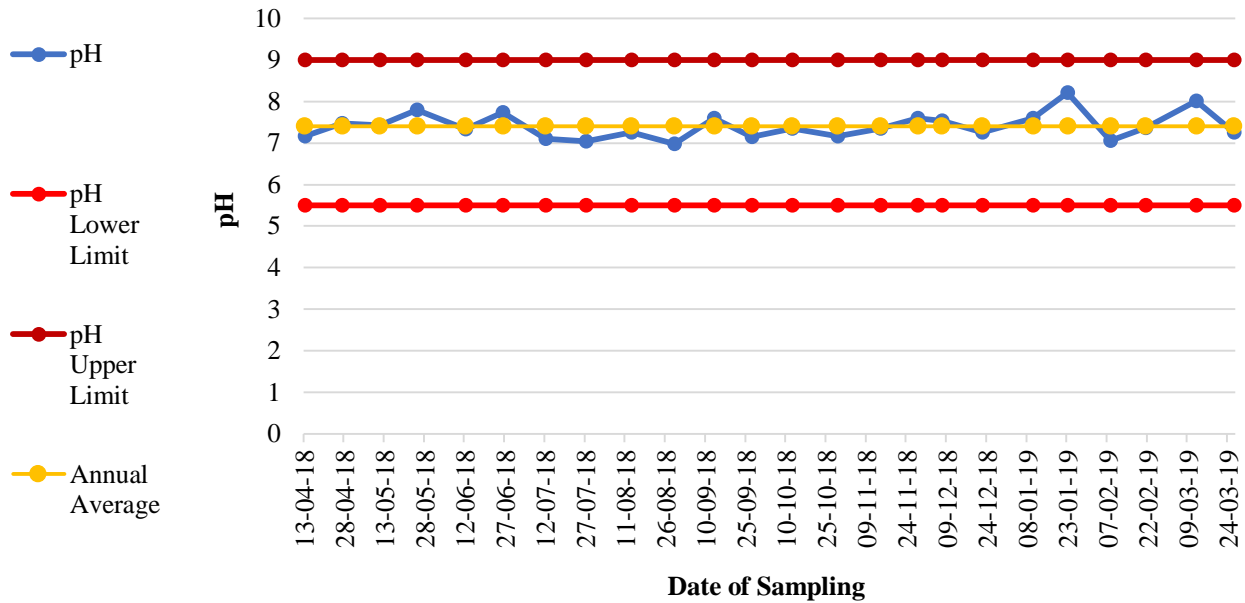


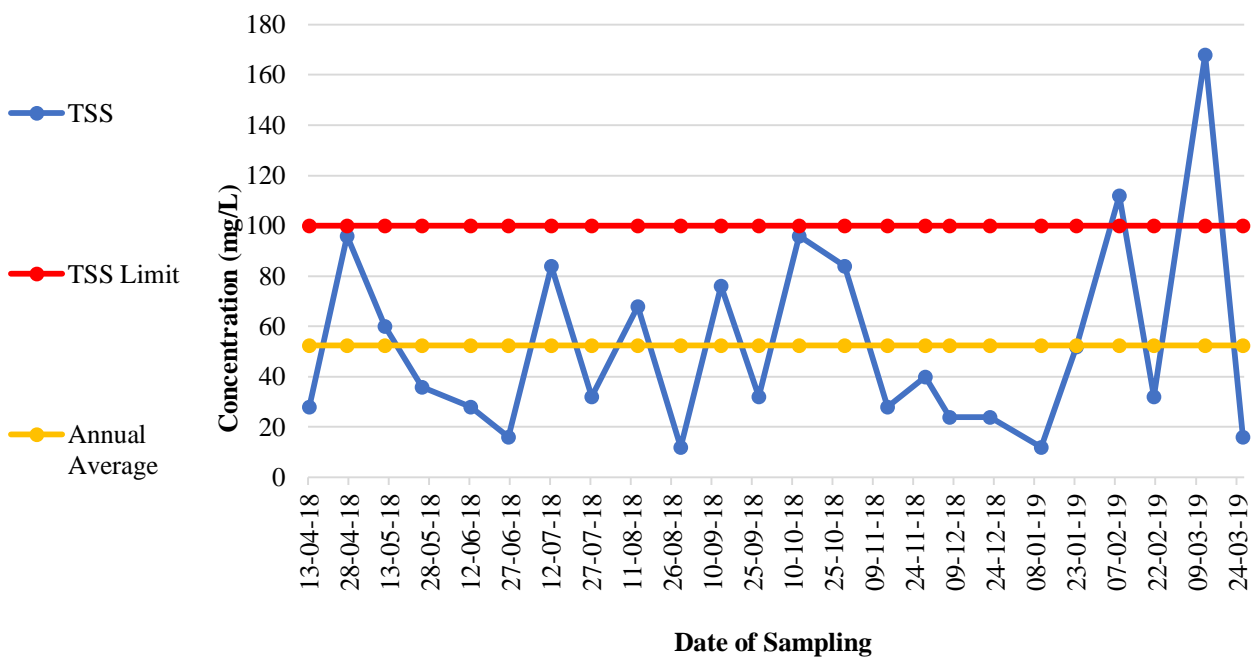
Table:149
Area: Kaniha
Project: Kaniha OCP
Monitoring Station: Clear Water Pond

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 13/04/18 | 7.17 | <4.0 | 11.8 | 28 |
| 27/04/18 | 7.47 | 5 | 8 | 96 |
| 11/05/18 | 7.42 | <4.0 | 14 | 60 |
| 25/05/18 | 7.8 | 7 | 36 | 36 |
| 12/06/18 | 7.33 | <4.0 | 10 | 28 |
| 26/06/18 | 7.73 | <4.0 | 12 | 16 |
| 12/07/18 | 7.1 | <4.0 | 17 | 84 |
| 27/07/18 | 7.04 | 4.2 | 66 | 32 |
| 13/08/18 | 7.25 | <4.0 | 46 | 68 |
| 29/08/18 | 6.98 | <4.0 | 6 | 12 |
| 13/09/18 | 7.6 | <4.0 | 6 | 76 |
| 27/09/18 | 7.15 | <4.0 | 45.6 | 32 |
| 12/10/18 | 7.35 | <4.0 | 118 | 96 |
| 29/10/18 | 7.17 | <4.0 | 46 | 84 |
| 14/11/18 | 7.34 | <4.0 | 44 | 28 |
| 28/11/18 | 7.59 | <4.0 | 32 | 40 |
| 07/12/18 | 7.54 | <4.0 | 38 | 24 |
| 22/12/18 | 7.26 | <4.0 | 52 | 24 |
| 10/01/19 | 7.59 | <4 | 26 | 12 |
| 23/01/19 | 8.21 | <4 | 67 | 52 |
| 08/02/19 | 7.05 | 4.8 | 128 | 112 |
| 21/02/19 | 7.36 | <4 | 37 | 32 |
| 12/03/19 | 8.01 | 5.6 | 137 | 168 |
| 26/03/19 | 7.26 | <4.0 | 43 | 16 |

Graph showing for pH of Clear Water Pond



Graph showing for TSS of Clear Water Pond



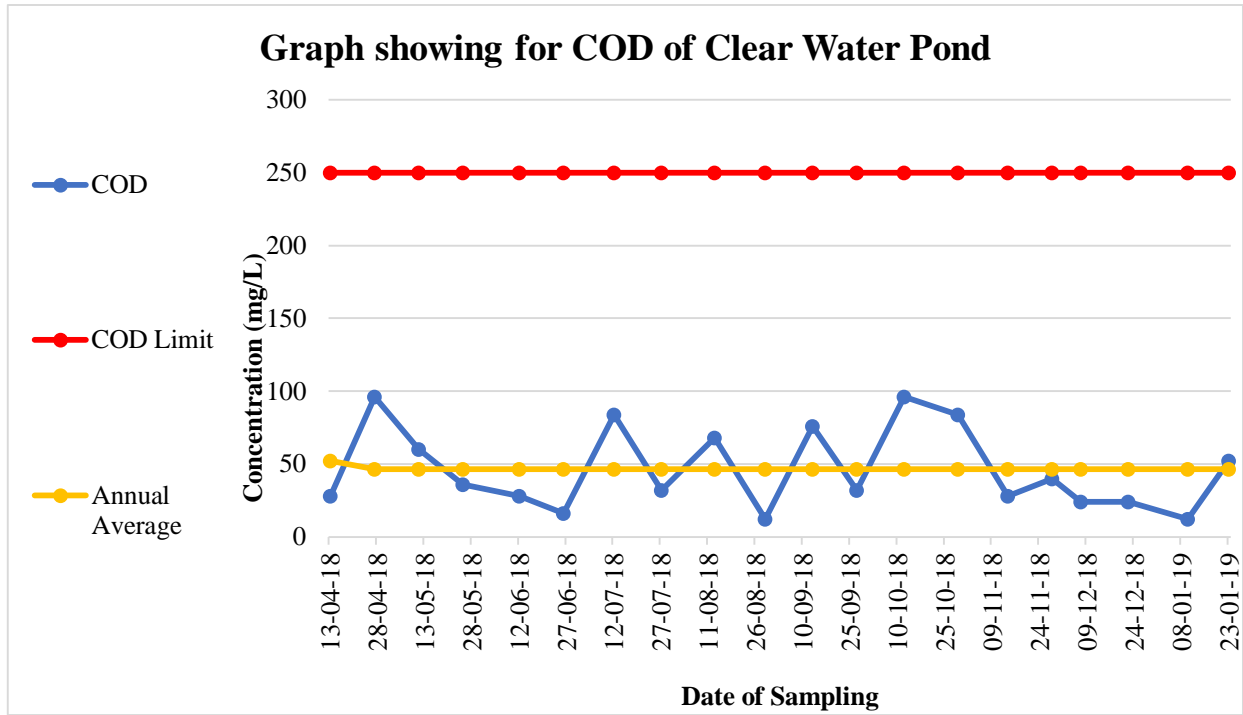
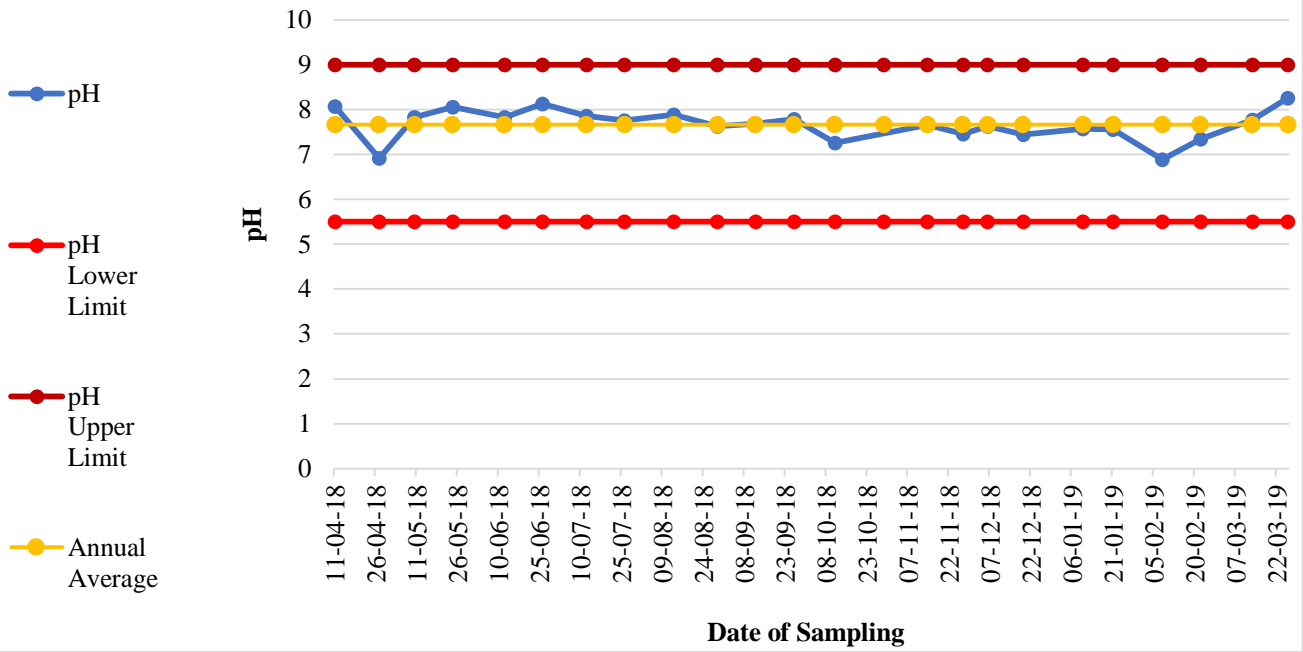


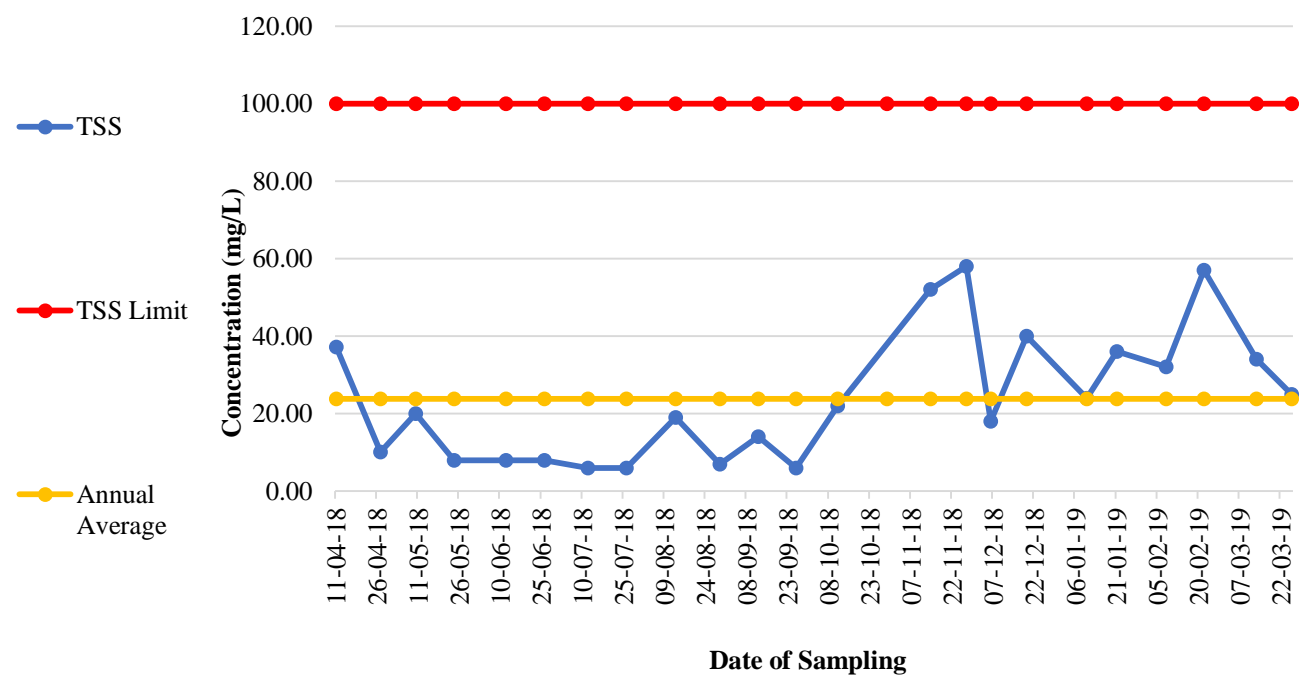
Table:150
Area: Hingula
Project: Hingula OCP
Monitoring Station: Mine Sump water

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|-----------------|---------------------|------------|------------|
| 11-04-18 | 8.07 | <4.0 | 37.2 | 20 |
| 27-04-18 | 6.91 | <4.0 | 10 | 84 |
| 10-05-18 | 7.83 | <4.0 | 20 | 32 |
| 24-05-18 | 8.05 | 5 | 8 | 60 |
| 12-06-18 | 7.83 | <4.0 | 8 | 8 |
| 26-06-18 | 8.13 | <4.0 | 8 | 36 |
| 12-07-18 | 7.85 | <4.0 | 6 | 64 |
| 26-07-18 | 7.76 | 4 | 6 | 84 |
| 13-08-18 | 7.88 | <4.0 | 19 | 44 |
| 29-08-18 | 7.62 | 4 | 7 | 16 |
| 12-09-18 | 7.69 | <4.0 | 14 | 56 |
| 26-09-18 | 7.78 | <4.0 | 6 | 68 |
| 11-10-18 | 7.26 | <4.0 | 22 | 16 |
| 29-10-18 | Not Functioning | | | |
| 14-11-18 | 7.66 | <4.0 | 52 | 28 |
| 27-11-18 | 7.45 | <4.0 | 58 | 64 |
| 06-12-18 | 7.62 | <4.0 | 18 | 12 |
| 19-12-18 | 7.44 | <4.0 | 40 | 16 |
| 10-01-19 | 7.57 | <4 | 24 | 12 |
| 21-01-19 | 7.56 | <4 | 36 | 12 |
| 08-02-19 | 6.89 | <4 | 32 | 16 |
| 22-02-19 | 7.34 | <4 | 57 | 16 |
| 13-03-19 | 7.77 | <4.0 | 34 | 12 |
| 26-03-19 | 8.25 | <4.0 | 25 | 12 |

Graph showing for pH of Mine Sump Water



Graph showing for TSS of Mine Sump Water



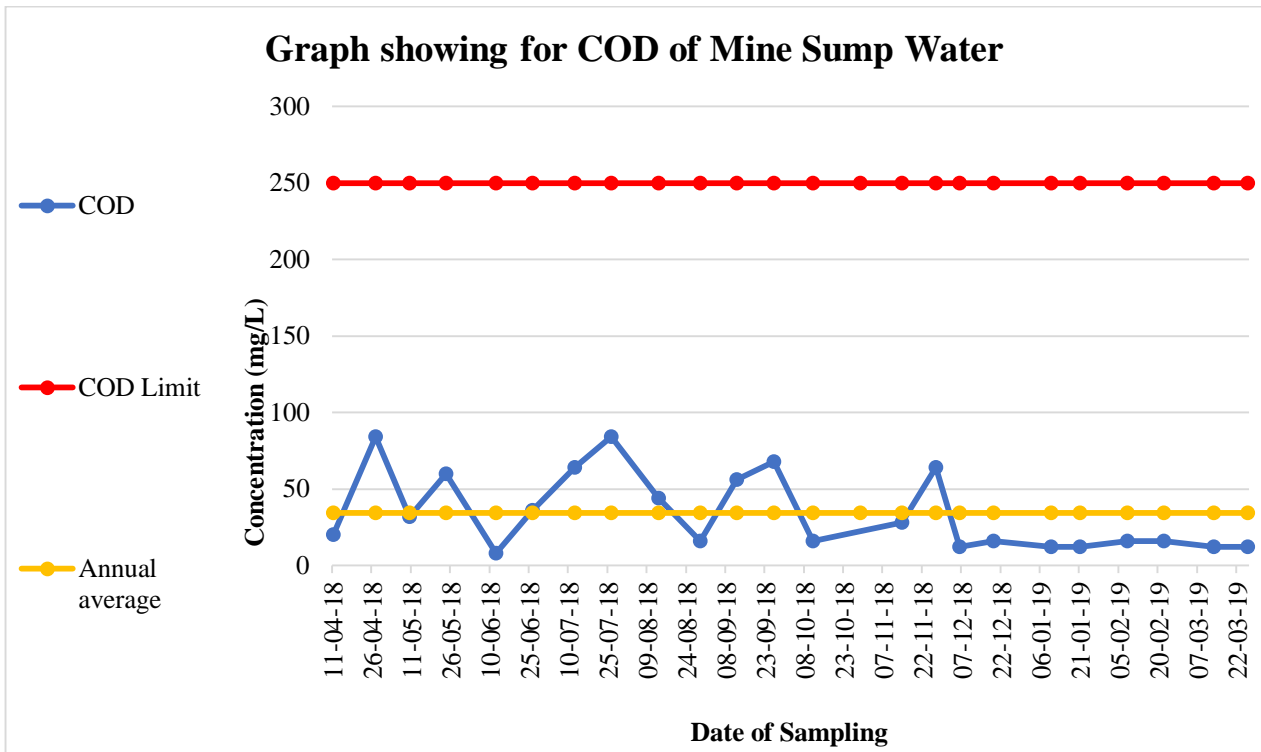
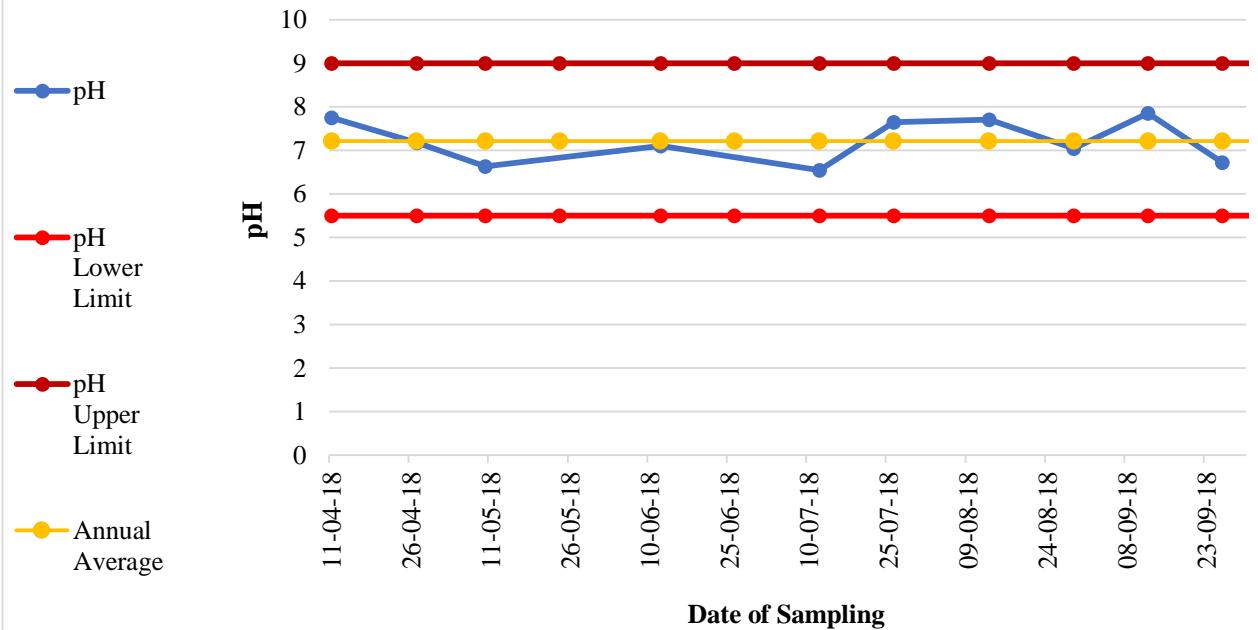


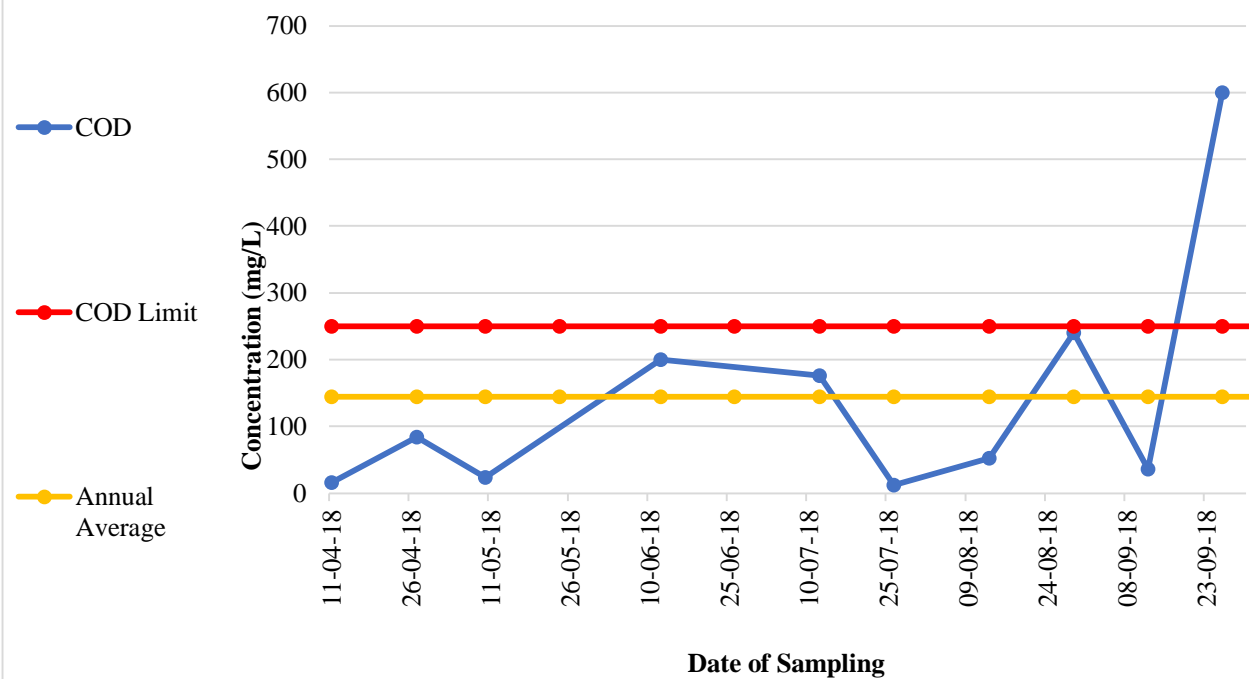
Table: 151
Area: Hingula
Project: Hingula OCP
Monitoring Station: Inlet of O & G trap

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) | Remarks |
|------------------|------|---------------------|------------|------------|---------------------------------|
| 11-Apr-18 | 7.75 | <4.0 | 8 | 16 | |
| 27-Apr-18 | 7.18 | <4.0 | 9 | 84 | |
| 10-May-18 | 6.63 | 6 | 36 | 24 | |
| 24-May-18 | #N/A | #N/A | #N/A | #N/A | Pump break down, stagnant water |
| 12-Jun-18 | 7.1 | 8 | 86 | 200 | |
| 26-Jun-18 | #N/A | #N/A | #N/A | #N/A | Maintenance |
| 12-Jul-18 | 6.54 | 7.8 | 116 | 176 | |
| 26-Jul-18 | 7.64 | 7.2 | 21 | 12 | |
| 13-Aug-18 | 7.7 | <4.0 | 26 | 52 | |
| 29-Aug-18 | 7.04 | <4.0 | 458 | 240 | |
| 12-Sep-18 | 7.85 | <4.0 | 7 | 36 | |
| 26-Sep-18 | 6.72 | <4.0 | 800 | 600 | |
| 11-Oct-18 | #N/A | #N/A | #N/A | #N/A | Not Functioning |
| 29-Oct-18 | #N/A | #N/A | #N/A | #N/A | Not Functioning |
| 15-Nov-18 | #N/A | #N/A | #N/A | #N/A | DRY |
| 27-Nov-18 | #N/A | #N/A | #N/A | #N/A | DRY |
| 06-Dec-18 | #N/A | #N/A | #N/A | #N/A | DRY |
| 19-Dec-18 | #N/A | #N/A | #N/A | #N/A | No Discharge |
| 10-Jan-19 | #N/A | #N/A | #N/A | #N/A | No Discharge |
| 21-Jan-19 | #N/A | #N/A | #N/A | #N/A | Dry |
| 13-Mar-19 | #N/A | #N/A | #N/A | #N/A | Maintanace |
| 29-Mar-19 | #N/A | #N/A | #N/A | #N/A | Maintanance |
| 30-Apr-19 | #N/A | #N/A | #N/A | #N/A | Not working |

Graph showing for pH of Inlet of O & G Trap



Graph showing for COD of Inlet of O & G Trap



Graph showing for pH of Inlet of O & G trap

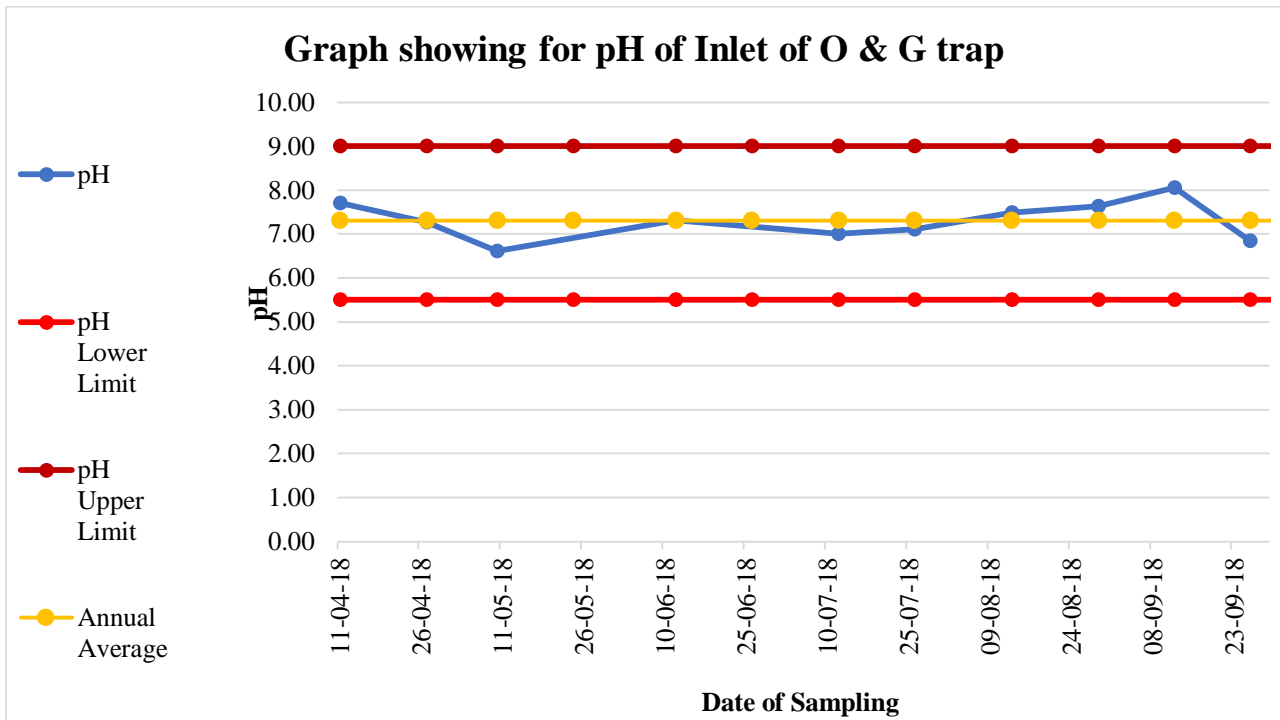
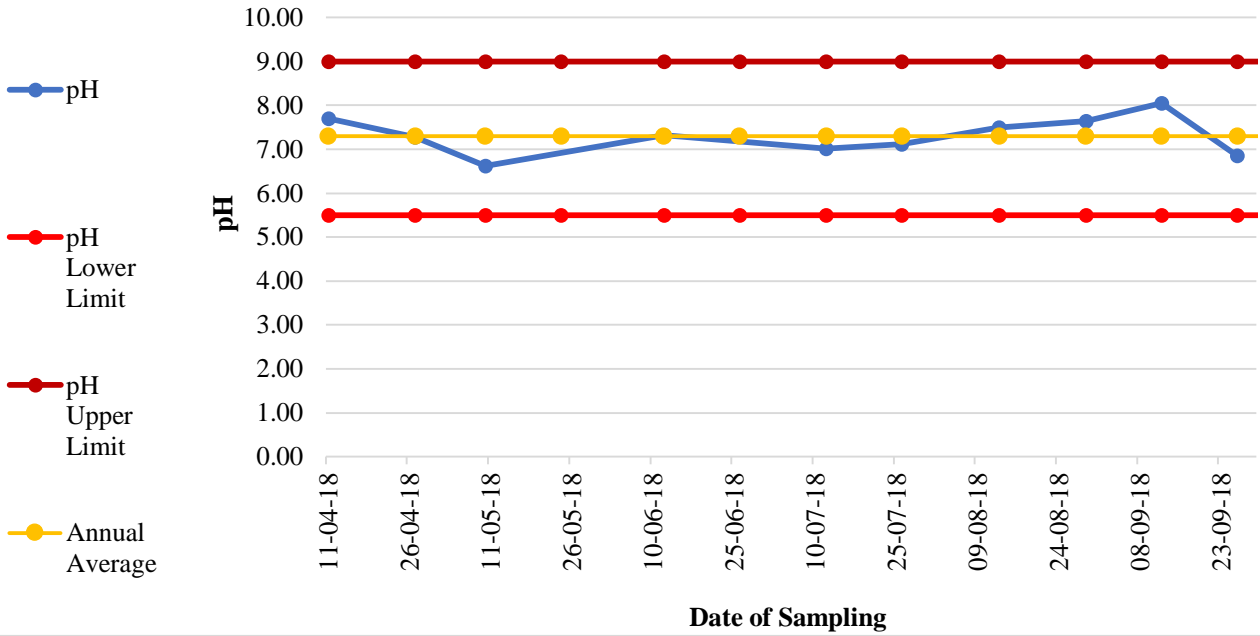


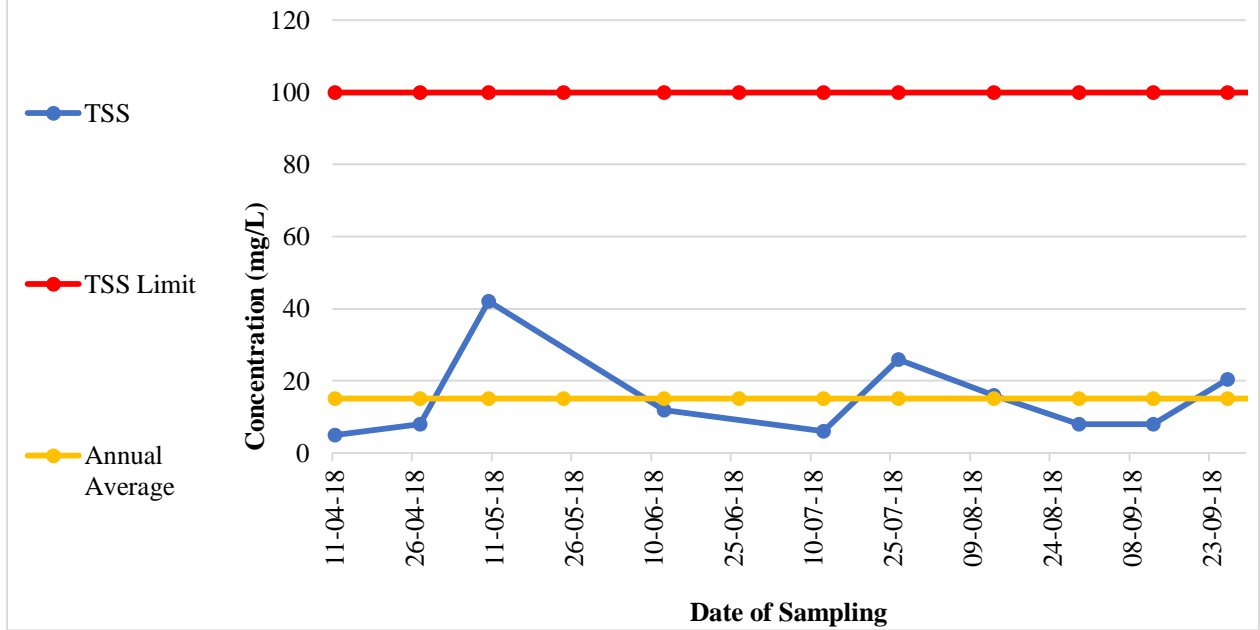
Table:152
Area: Hingula
Project: Hingula OCP
Monitoring Station: Outlet of O & G trap

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) | Remarks |
|------------------|------|---------------------|------------|------------|---------------------------------|
| 11/04/18 | 7.7 | <4.0 | 5 | 36 | |
| 27/04/18 | 7.27 | 6 | 8 | 124 | |
| 10/05/18 | 6.62 | <4.0 | 42 | 24 | |
| 24/05/18 | #N/A | #N/A | #N/A | #N/A | Pump break down, stagnant water |
| 12/06/18 | 7.32 | <4.0 | 12 | 116 | |
| 26/06/18 | #N/A | #N/A | #N/A | #N/A | Maintenance |
| 12/07/18 | 7.01 | <4.0 | 6 | 40 | |
| 26/07/18 | 7.11 | 7 | 26 | 12 | |
| 13/08/18 | 7.49 | <4.0 | 16 | 64 | |
| 29/08/18 | 7.64 | <4.0 | 8 | 24 | |
| 12/09/18 | 8.05 | <4.0 | 8 | 28 | |
| 26/09/18 | 6.85 | <4.0 | 20.4 | 44 | |
| 11/10/18 | #N/A | #N/A | #N/A | #N/A | Not Functioning |
| 29/10/18 | #N/A | #N/A | #N/A | #N/A | Not Functioning |
| 15/11/18 | #N/A | #N/A | #N/A | #N/A | DRY |
| 27/11/18 | #N/A | #N/A | #N/A | #N/A | DRY |
| 06/12/18 | #N/A | #N/A | #N/A | #N/A | DRY |
| 19/12/18 | #N/A | #N/A | #N/A | #N/A | No Discharge |
| 10/01/19 | #N/A | #N/A | #N/A | #N/A | No Discharge |
| 21/01/19 | #N/A | #N/A | #N/A | #N/A | Dry |
| 13/03/19 | #N/A | #N/A | #N/A | #N/A | Maintanace |
| 29/03/19 | #N/A | #N/A | #N/A | #N/A | Maintanance |

Graph showing for pH of Outlet of O & G trap



Graph showing for TSS of Outlet of O & G Trap



Graph showing for COD of Outlet of O & G Trap

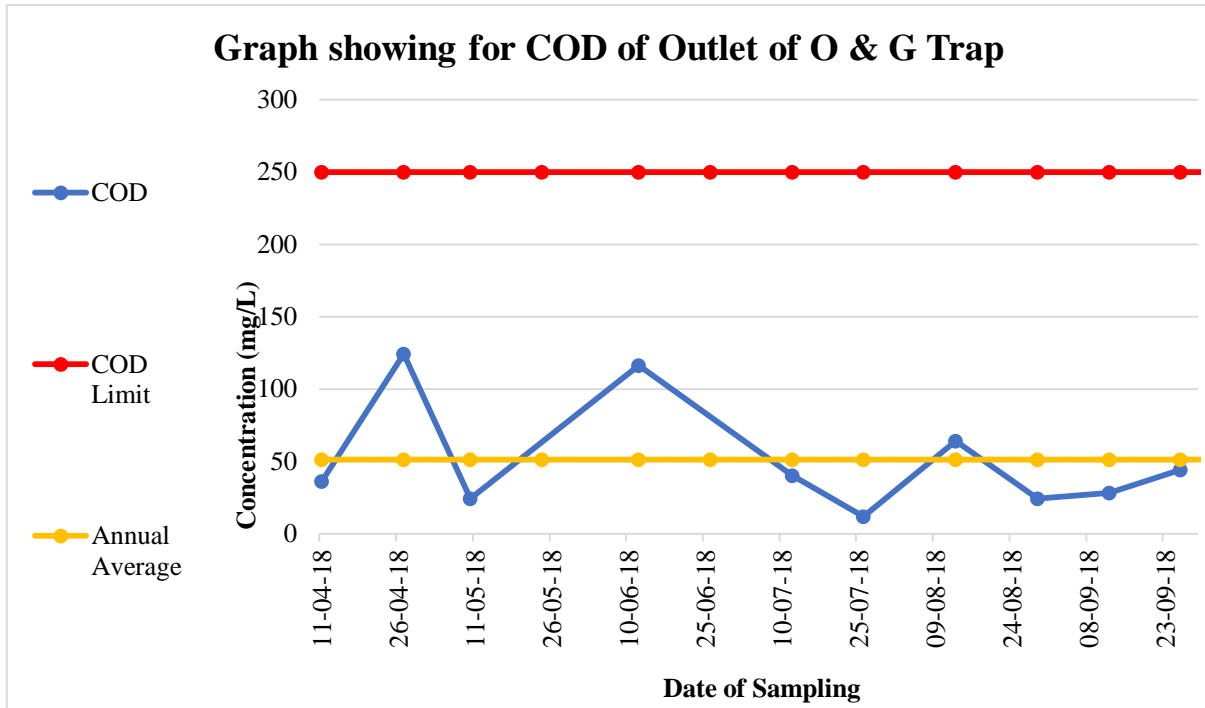
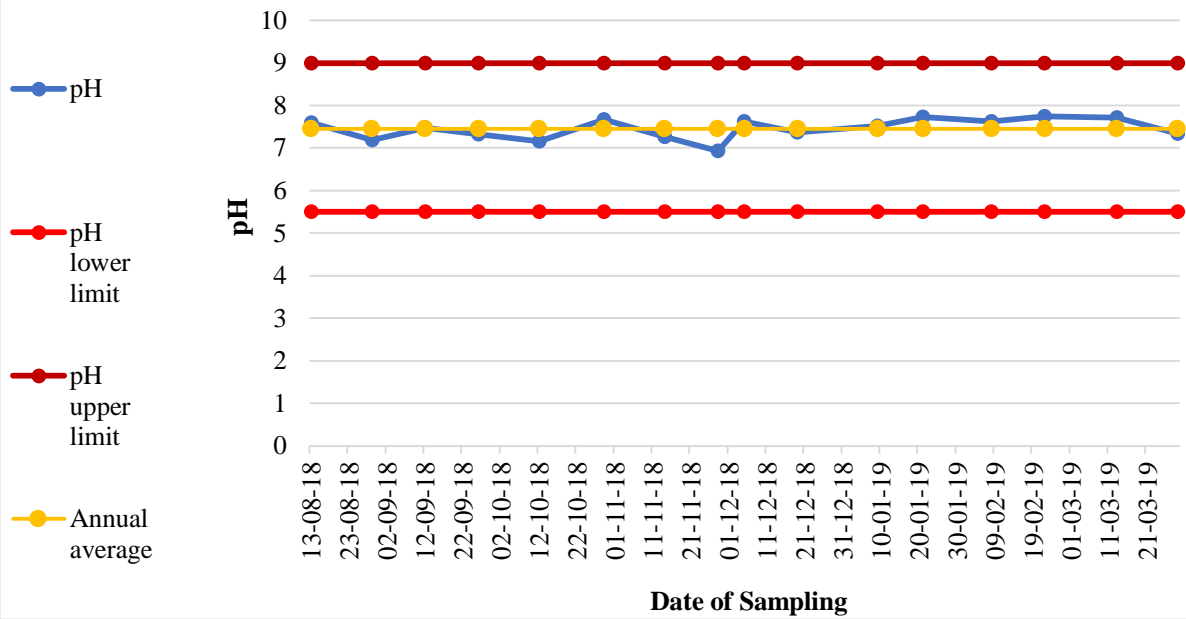


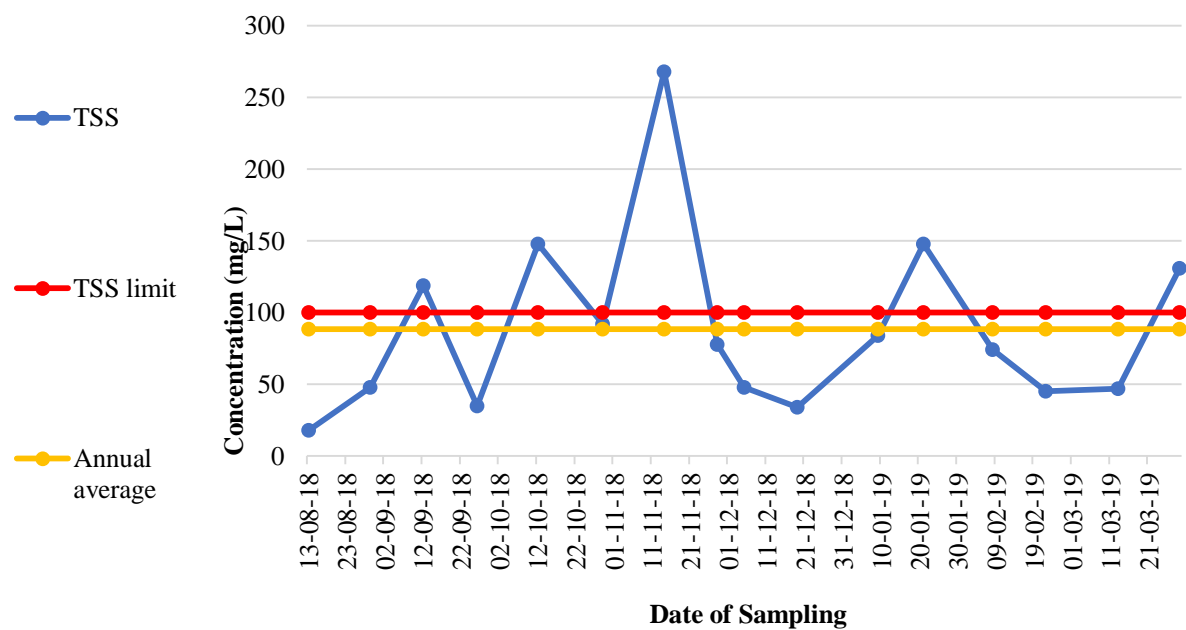
Table:153
Area: Hingula
Project: Balram OCP
Monitoring Station: Inlet of O & G trap

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 13/08/18 | 7.6 | <4.0 | 18 | 72 |
| 29/08/18 | 7.19 | <4.0 | 48 | 40 |
| 12/09/18 | 7.48 | <4.0 | 119 | 360 |
| 26/09/18 | 7.33 | <4.0 | 34.8 | 36 |
| 12/10/18 | 7.15 | 4.8 | 148 | 184 |
| 29/10/18 | 7.67 | 4.8 | 92 | 148 |
| 14/11/18 | 7.27 | 6.8 | 268 | 448 |
| 28/11/18 | 6.93 | 4.6 | 78 | 96 |
| 05/12/18 | 7.62 | <4.0 | 48 | 36 |
| 19/12/18 | 7.37 | <4.0 | 34 | 16 |
| 09/01/19 | 7.52 | 4.8 | 84 | 52 |
| 21/01/19 | 7.73 | 5.6 | 148 | 204 |
| 08/02/19 | 7.63 | <4 | 74 | 36 |
| 22/02/19 | 7.74 | <4 | 45 | 12 |
| 13/03/19 | 7.72 | <4.0 | 47 | 20 |
| 29/03/19 | 7.34 | 5.2 | 131 | 152 |

Graph showing for pH of Inlet of O&G Trap



Graph showing for TSS of Inlet of O&G Trap



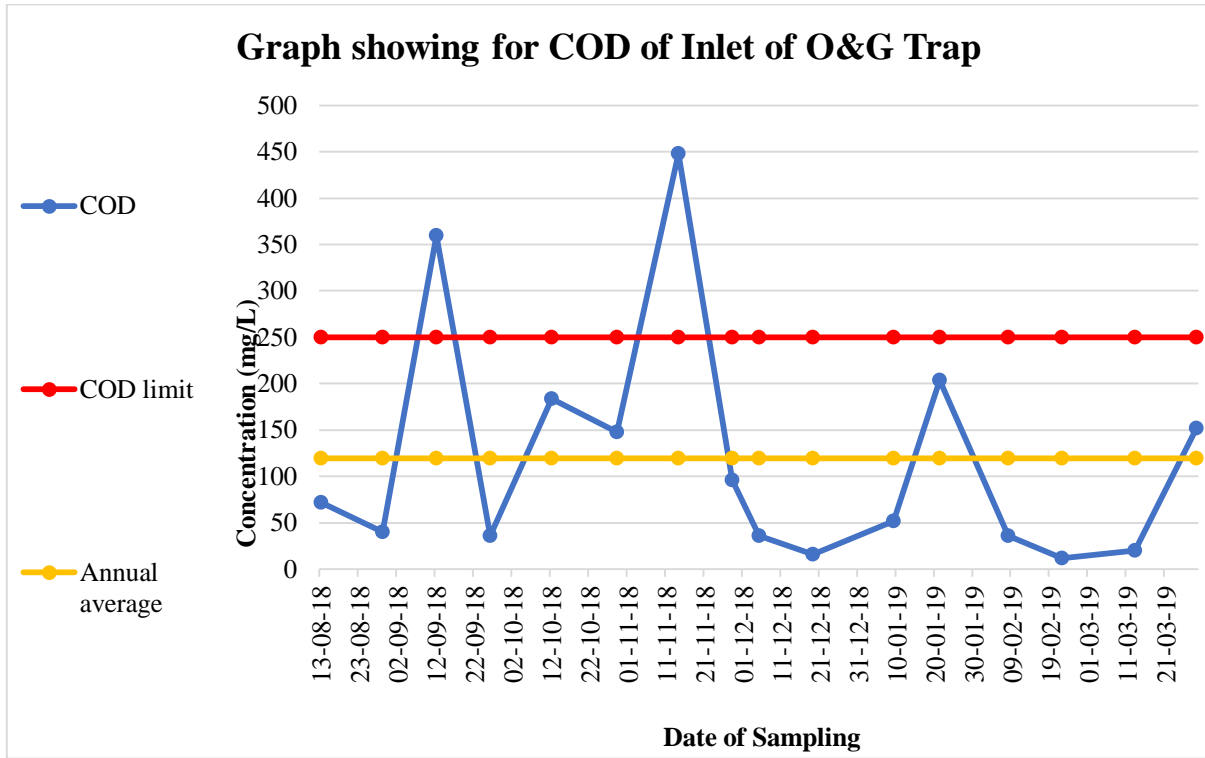
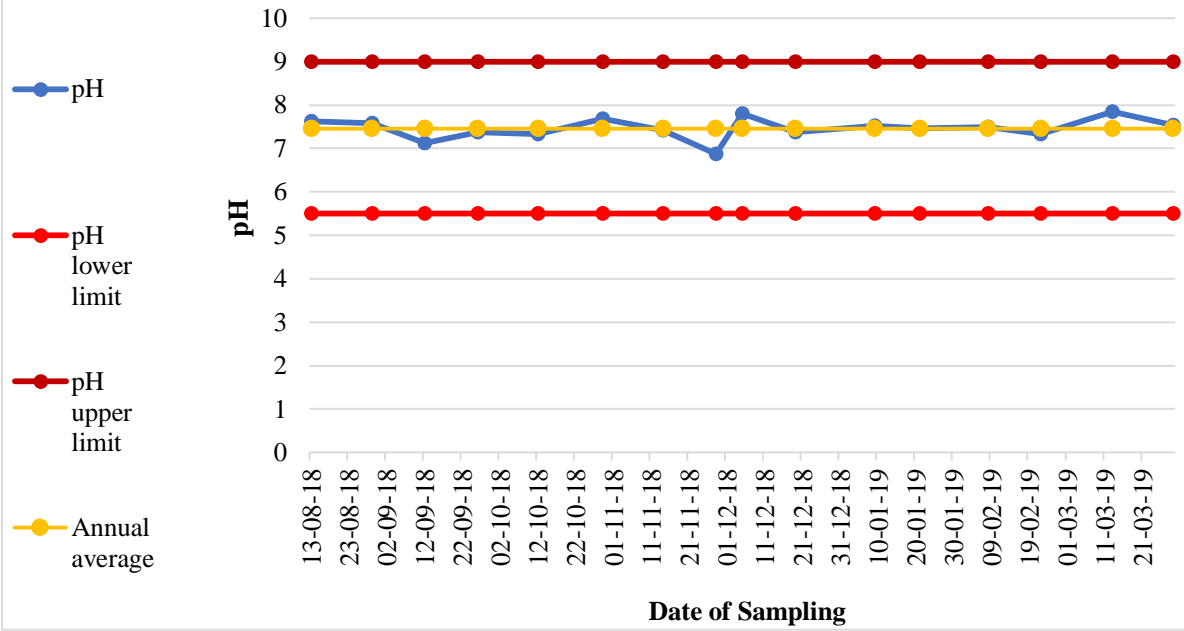


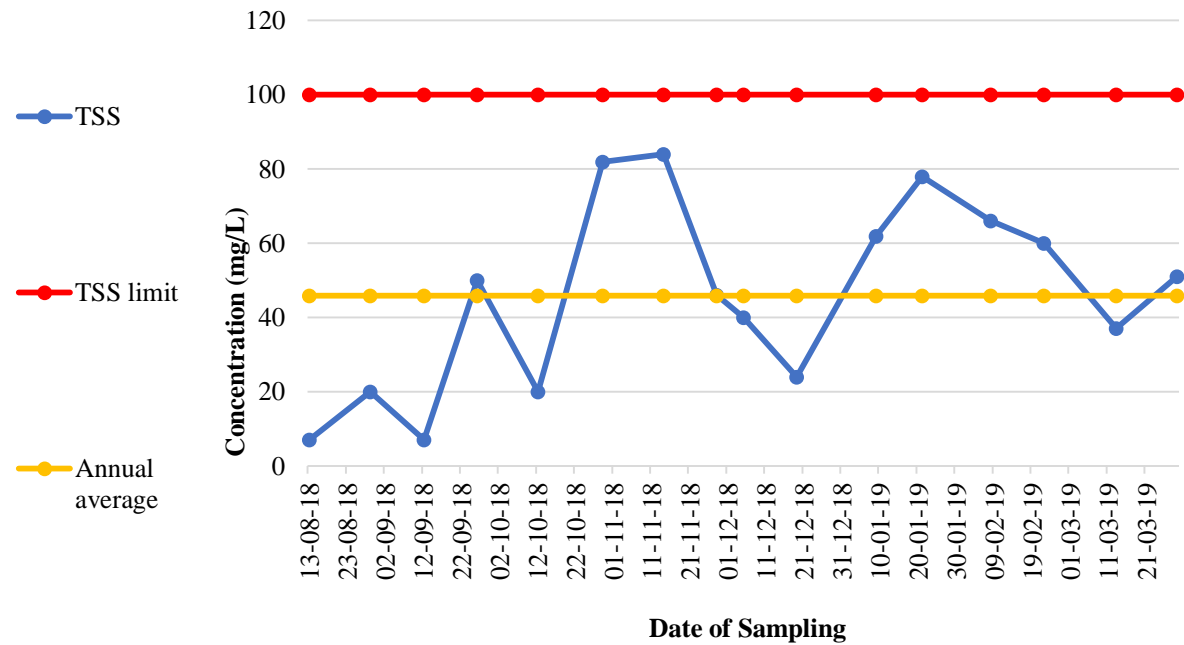
Table:154
Area: Hingula
Project: Balram OCP
Monitoring Station: Outlet of O & G trap

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 13/08/18 | 7.62 | <4.0 | 7 | 68 |
| 29/08/18 | 7.58 | <4.0 | 20 | 36 |
| 12/09/18 | 7.12 | <4.0 | 7 | 56 |
| 26/09/18 | 7.38 | <4.0 | 50 | 20 |
| 12/10/18 | 7.33 | <4.0 | 20 | 28 |
| 29/10/18 | 7.68 | 4.4 | 82 | 128 |
| 14/11/18 | 7.42 | <4.0 | 84 | 48 |
| 28/11/18 | 6.87 | <4.0 | 46 | 32 |
| 05/12/18 | 7.8 | <4.0 | 40 | 28 |
| 19/12/18 | 7.37 | <4.0 | 24 | 12 |
| 09/01/19 | 7.53 | <4 | 62 | 24 |
| 21/01/19 | 7.47 | <4 | 78 | 60 |
| 08/02/19 | 7.5 | <4 | 66 | 28 |
| 22/02/19 | 7.33 | <4 | 60 | 48 |
| 13/03/19 | 7.85 | <4.0 | 37 | 16 |
| 29/03/19 | 7.54 | <4.0 | 51 | 16 |

Graph showing for pH of Outlet of O&G Trap



Graph showing for TSS of Outlet of O&G Trap



Graph showing for COD of Outlet of O&G Trap

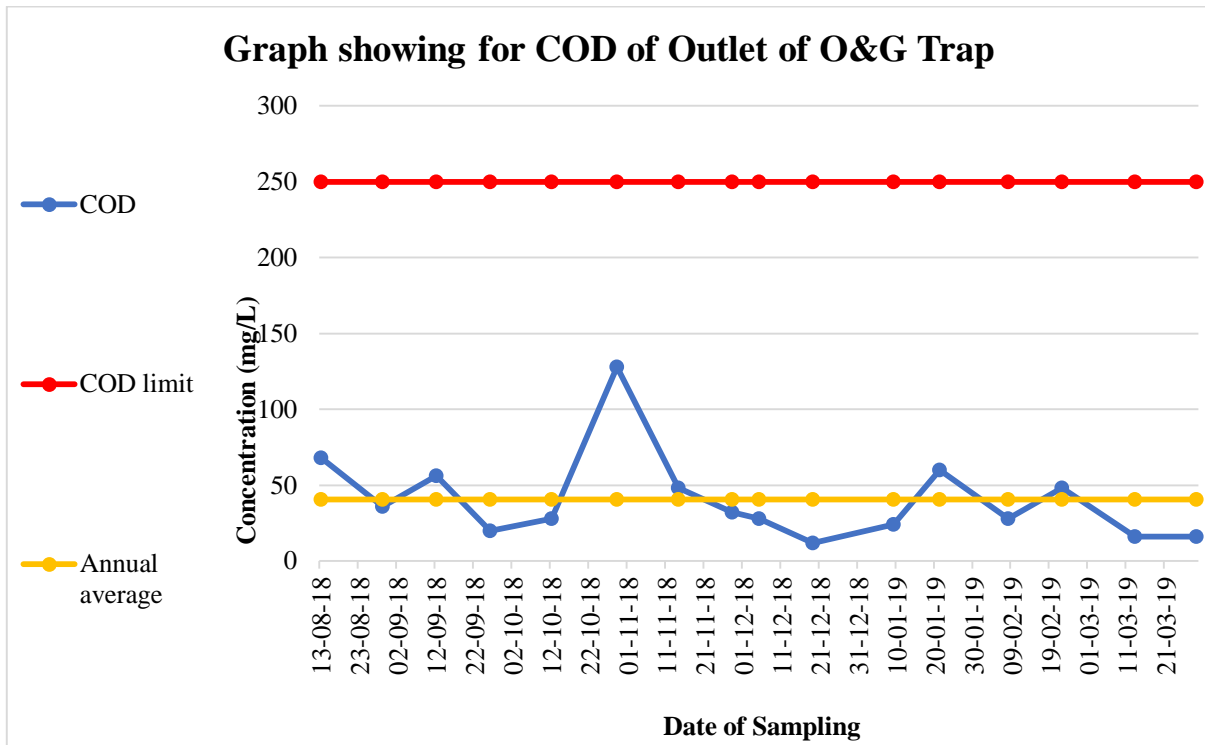
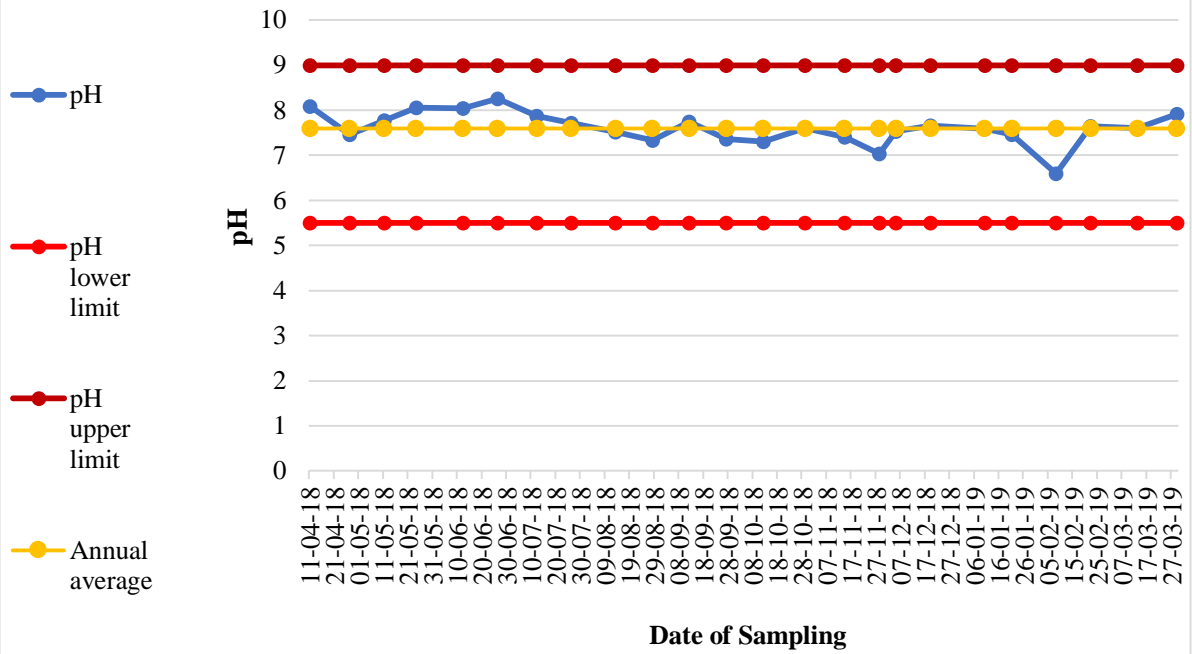


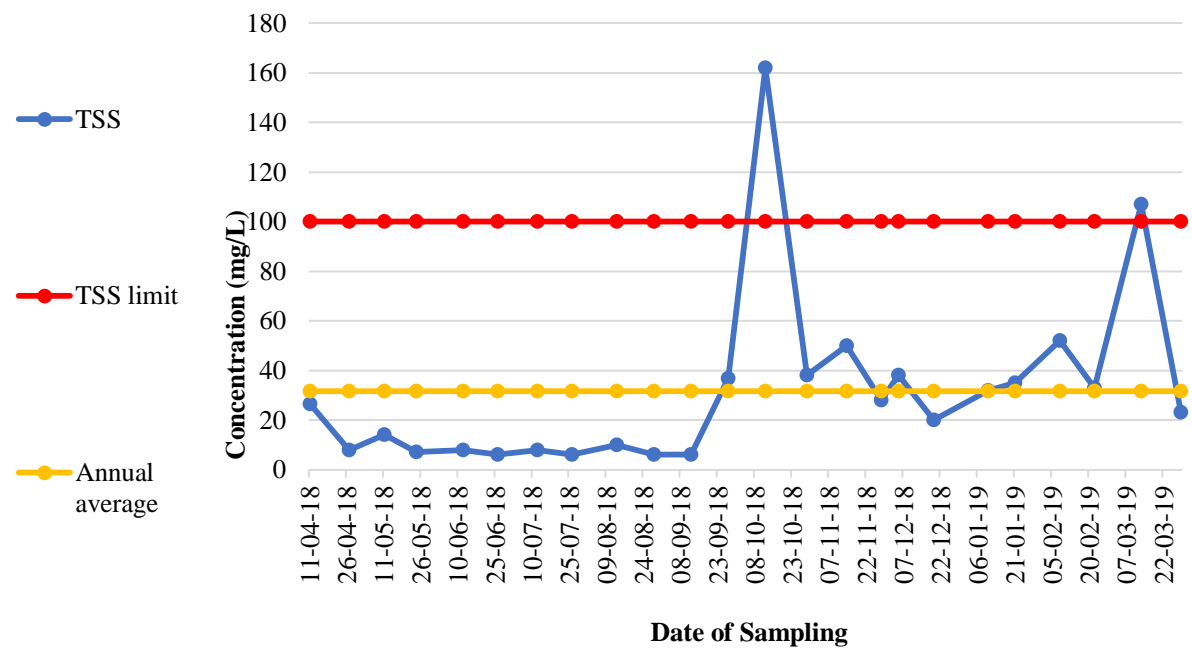
Table:155
Area: Hingula
Project: Balram OCP
Monitoring Station: Mine Sump water

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 11/04/18 | 8.08 | <4.0 | 26.4 | 44 |
| 27/04/18 | 7.46 | <4.0 | 8 | 52 |
| 11/05/18 | 7.77 | <4.0 | 14 | 12 |
| 24/05/18 | 8.06 | <4.0 | 7 | 48 |
| 12/06/18 | 8.05 | <4.0 | 8 | 36 |
| 26/06/18 | 8.25 | <4.0 | 6 | 20 |
| 12/07/18 | 7.87 | 6.2 | 8 | 16 |
| 26/07/18 | 7.71 | 4.8 | 6 | 40 |
| 13/08/18 | 7.52 | <4.0 | 10 | 52 |
| 28/08/18 | 7.34 | <4.0 | 6 | 20 |
| 12/09/18 | 7.75 | <4.0 | 6 | 48 |
| 27/09/18 | 7.36 | <4.0 | 36.8 | 24 |
| 12/10/18 | 7.3 | 4.4 | 162 | 148 |
| 29/10/18 | 7.61 | <4.0 | 38 | 48 |
| 14/11/18 | 7.4 | <4.0 | 50 | 20 |
| 28/11/18 | 7.03 | <4.0 | 28 | 16 |
| 05/12/18 | 7.53 | <4.0 | 38 | 32 |
| 19/12/18 | 7.66 | <4.0 | 20 | 12 |
| 10/01/19 | 7.59 | <4 | 32 | 16 |
| 21/01/19 | 7.46 | <4 | 35 | 12 |
| 08/02/19 | 6.6 | <4 | 52 | 20 |
| 22/02/19 | 7.65 | <4 | 33 | 16 |
| 13/03/19 | 7.61 | 4.8 | 107 | 96 |
| 29/03/19 | 7.92 | <4.0 | 23 | 12 |

Graph showing for pH of Mine Sump Water



Graph showing for TSS of Mine Sump Water



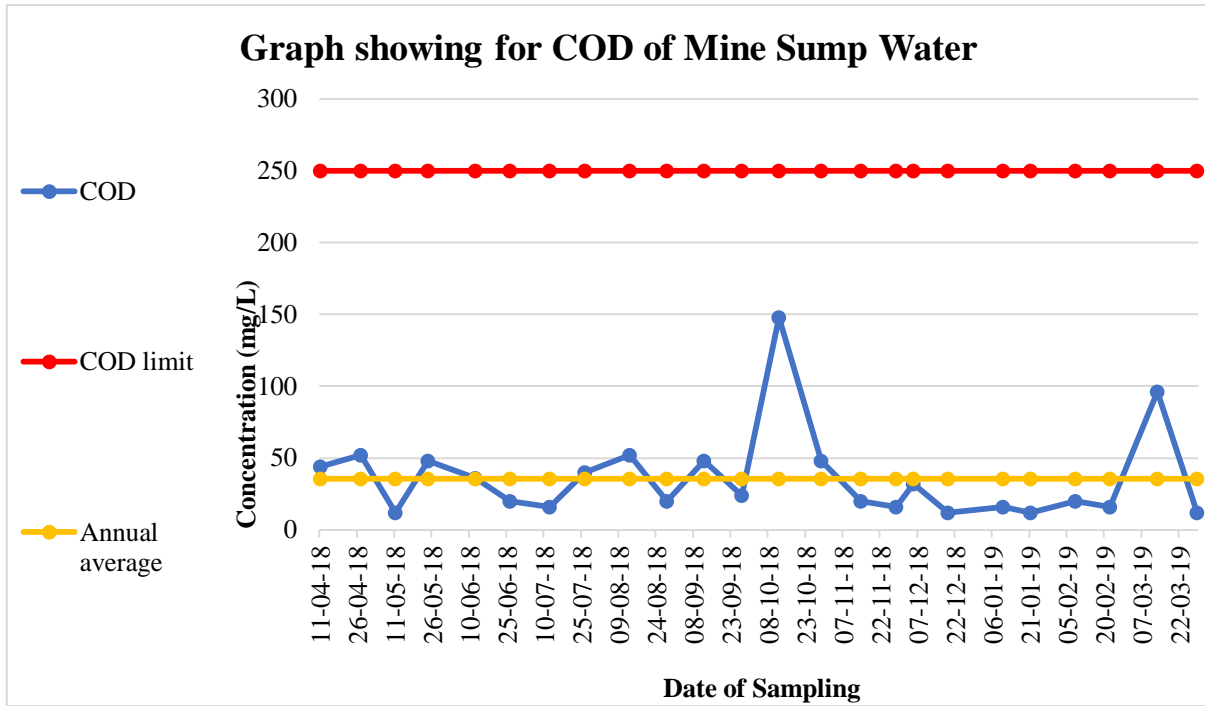
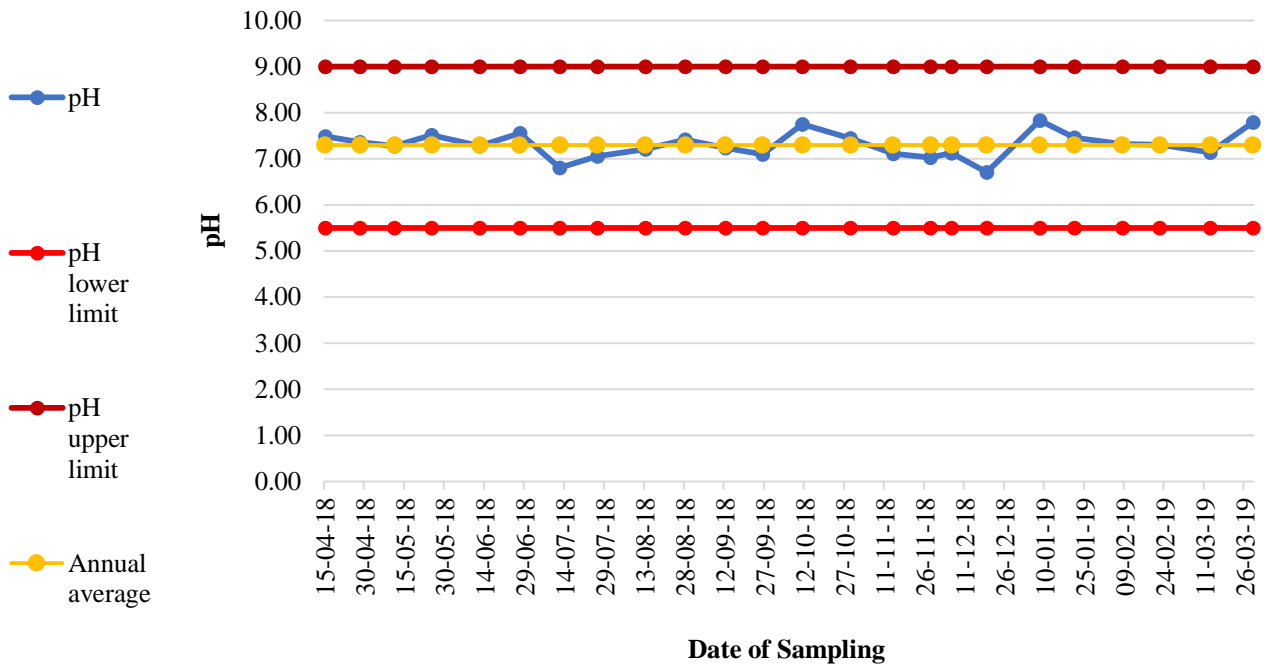


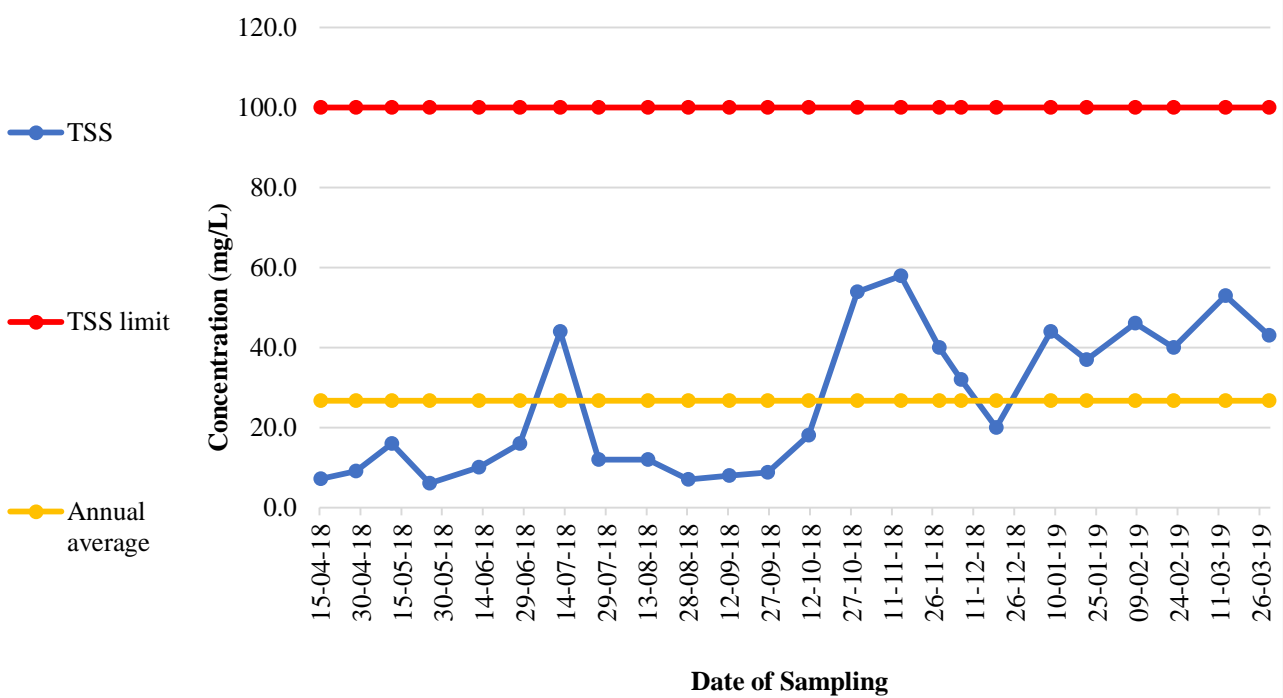
Table:156
Area: Hingula
Project: Balram OCP
Monitoring Station: STP Outlet

| Date of Sampling | pH | TSS (mg/l) | BOD (mg/l) |
|-------------------------|-----------|-------------------|-------------------|
| 15/04/18 | 7.48 | 7.2 | 5 |
| 28/04/18 | 7.36 | 9 | 4 |
| 11/05/18 | 7.28 | 16 | 1.9 |
| 25/05/18 | 7.51 | 6 | 0.6 |
| 12/06/18 | 7.28 | 10 | 1 |
| 27/06/18 | 7.56 | 16 | 1 |
| 12/07/18 | 6.81 | 44 | 3 |
| 26/07/18 | 7.06 | 12 | 4.9 |
| 13/08/18 | 7.21 | 12 | 4.6 |
| 28/08/18 | 7.41 | 7 | 1.8 |
| 12/09/18 | 7.23 | 8 | 1.4 |
| 26/09/18 | 7.1 | 8.8 | 1.6 |
| 11/10/18 | 7.75 | 18 | 3 |
| 29/10/18 | 7.44 | 54 | 7 |
| 14/11/18 | 7.11 | 58 | 5 |
| 28/11/18 | 7.02 | 40 | 3.2 |
| 06/12/18 | 7.13 | 32 | 2.2 |
| 19/12/18 | 6.7 | 20 | 1.8 |
| 08/01/19 | 7.83 | 44 | 3.4 |
| 21/01/19 | 7.45 | 37 | 2.1 |
| 08/02/19 | 7.32 | 46 | 2.7 |
| 22/02/19 | 7.3 | 40 | 2.4 |
| 13/03/19 | 7.14 | 53 | 3.4 |
| 29/03/19 | 7.79 | 43 | 2.8 |

Graph showing for pH of STP Outlet Water



Graph showing for TSS of STP Outlet Water



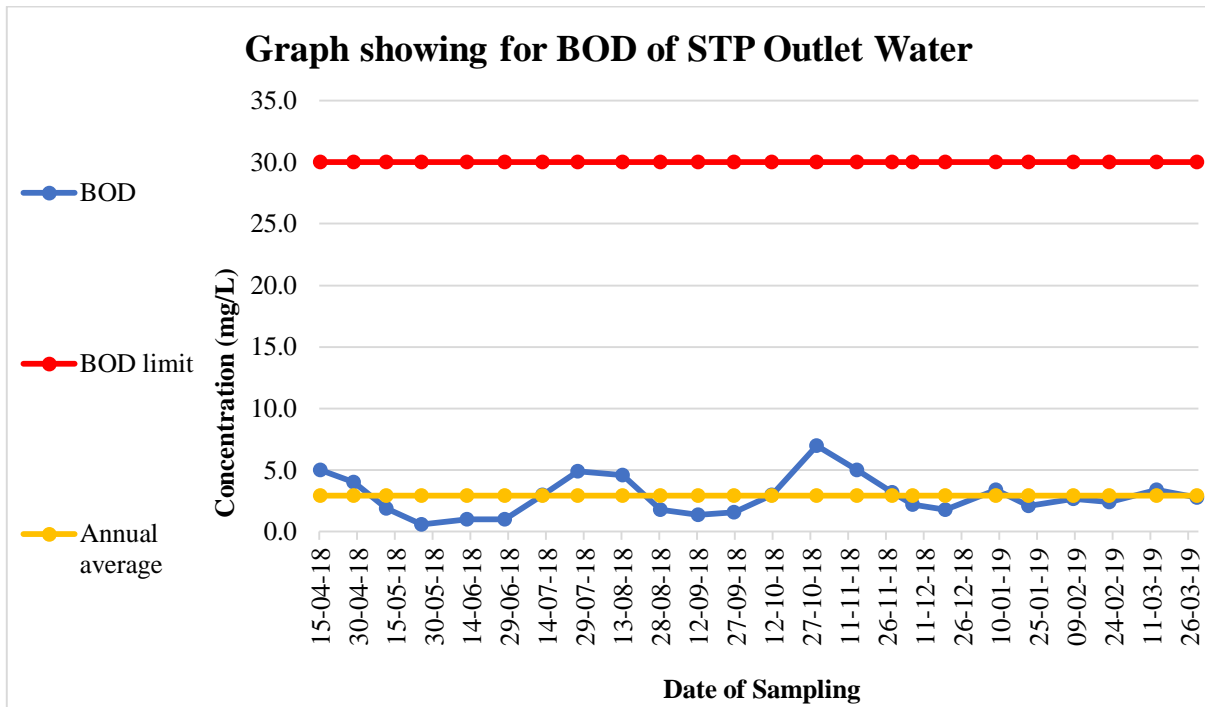
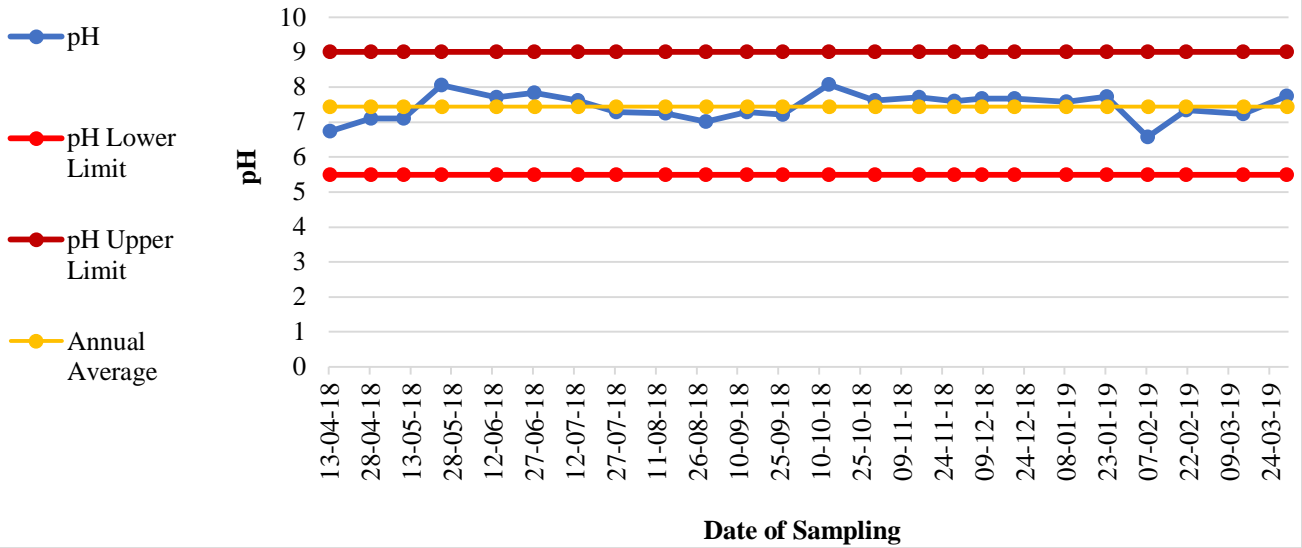


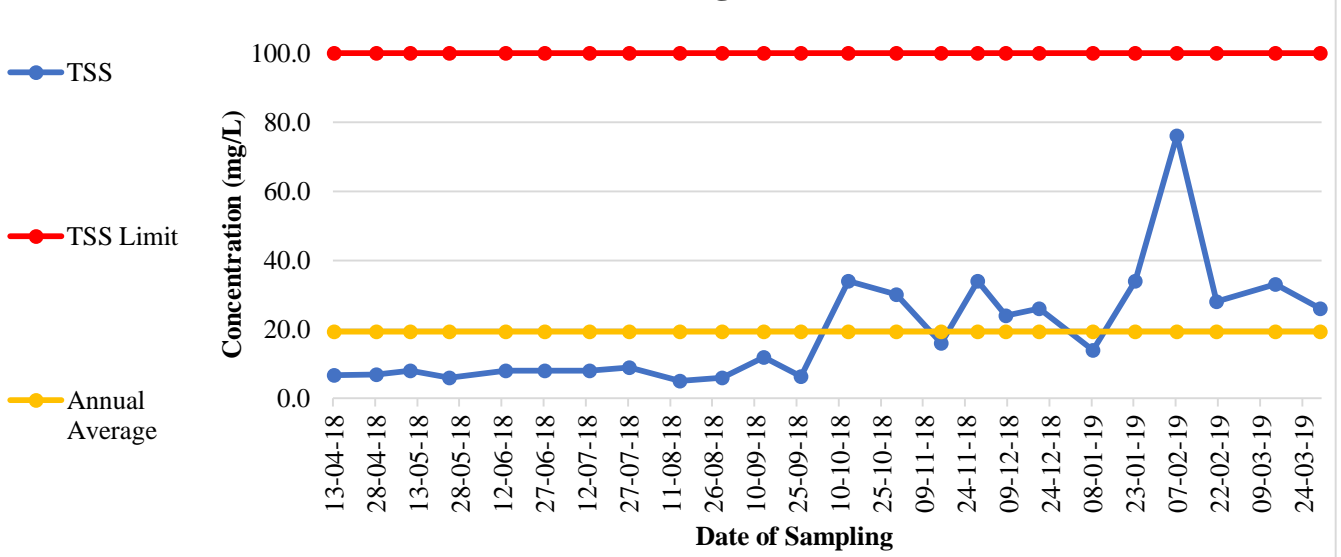
Table:157
Area: Talcher
Project: Talcher U/G
Monitoring Station: Talcher Colliery Sedimentation

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|------|---------------------|------------|------------|
| 13/04/18 | 6.74 | <4.0 | 6.8 | 24.0 |
| 28/04/18 | 7.11 | <4.0 | 7.0 | 68.0 |
| 10/05/18 | 7.1 | <4.0 | 8.0 | 24.0 |
| 24/05/18 | 8.05 | 5.0 | 6.0 | 64.0 |
| 13/06/18 | 7.7 | <4.0 | 8.0 | 16.0 |
| 27/06/18 | 7.83 | <4.0 | 8.0 | 44.0 |
| 13/07/18 | 7.61 | 6.4 | 8.0 | 24.0 |
| 27/07/18 | 7.28 | <4.0 | 9.0 | 48.0 |
| 14/08/18 | 7.25 | <4.0 | 5.0 | 44.0 |
| 29/08/18 | 7.02 | <4.0 | 6.0 | 28.0 |
| 13/09/18 | 7.28 | <4.0 | 12.0 | 36.0 |
| 26/09/18 | 7.21 | <4.0 | 6.4 | 32.0 |
| 13/10/18 | 8.07 | <4.0 | 34.0 | 40.0 |
| 30/10/18 | 7.61 | <4.0 | 30.0 | 20.0 |
| 15/11/18 | 7.7 | <4.0 | 16.0 | 20.0 |
| 28/11/18 | 7.59 | <4.0 | 34.0 | 20.0 |
| 08/12/18 | 7.68 | <4.0 | 24.0 | 16.0 |
| 20/12/18 | 7.67 | <4.0 | 26.0 | 12.0 |
| 08/01/19 | 7.58 | <4.0 | 14.0 | 8.0 |
| 23/01/19 | 7.72 | <4.1 | 34.0 | 20.0 |
| 07/02/19 | 6.57 | <4.2 | 76.0 | 24.0 |
| 21/02/19 | 7.35 | <4.3 | 28.0 | 20.0 |
| 14/03/19 | 7.23 | <4.0 | 33.0 | 16.0 |
| 30/03/19 | 7.75 | <4.0 | 26.0 | 12.0 |

Graph showing for TSS of Talcher Colliery Sedimentation Tank Discharge



Graph showing for TSS of Talcher Colliery Sedimentation Tank Discharge



Graph showing for COD of Talcher Colliery Sedimentation Tank Discharge

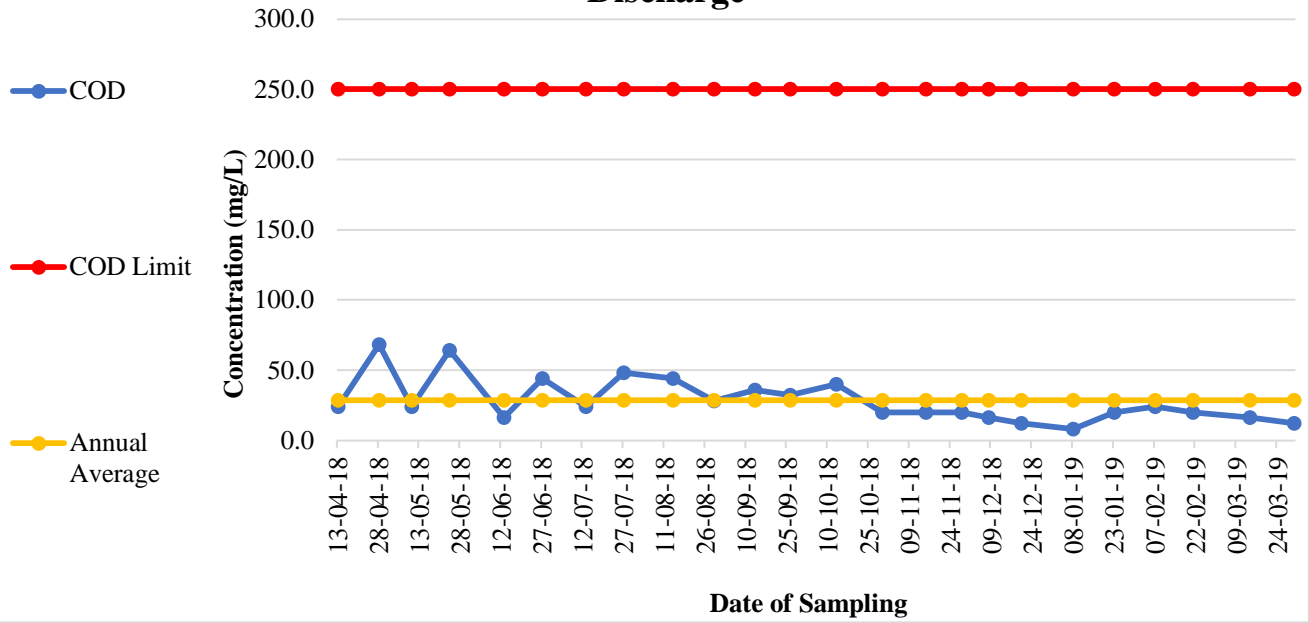
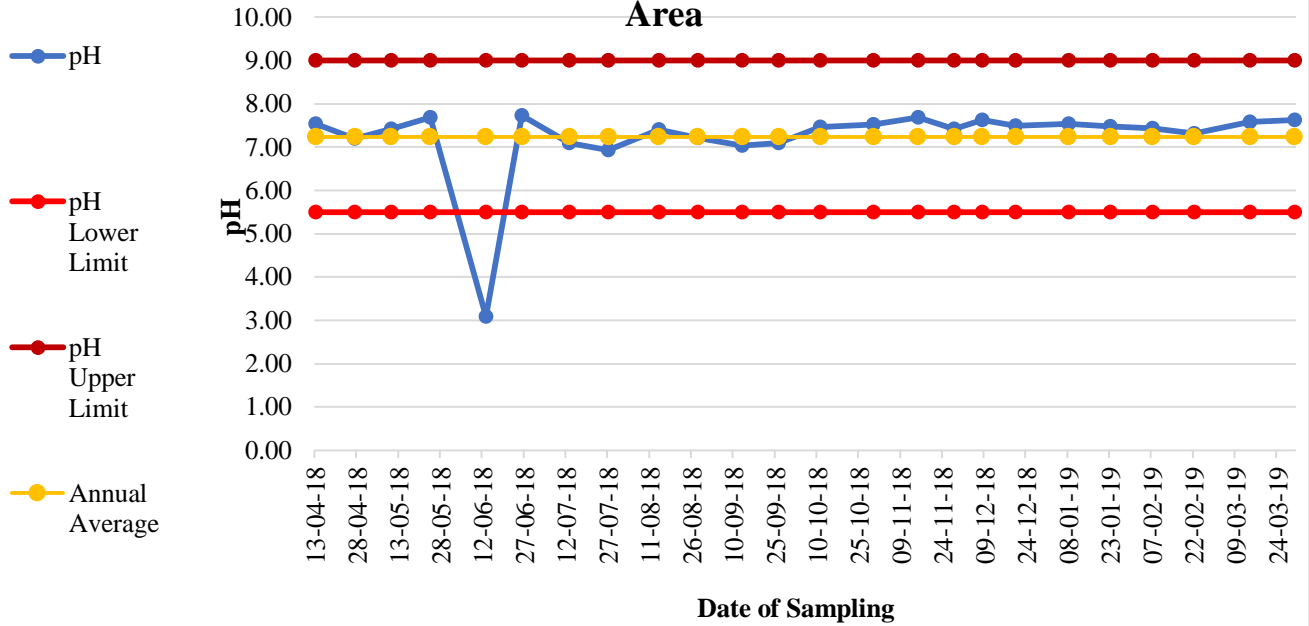


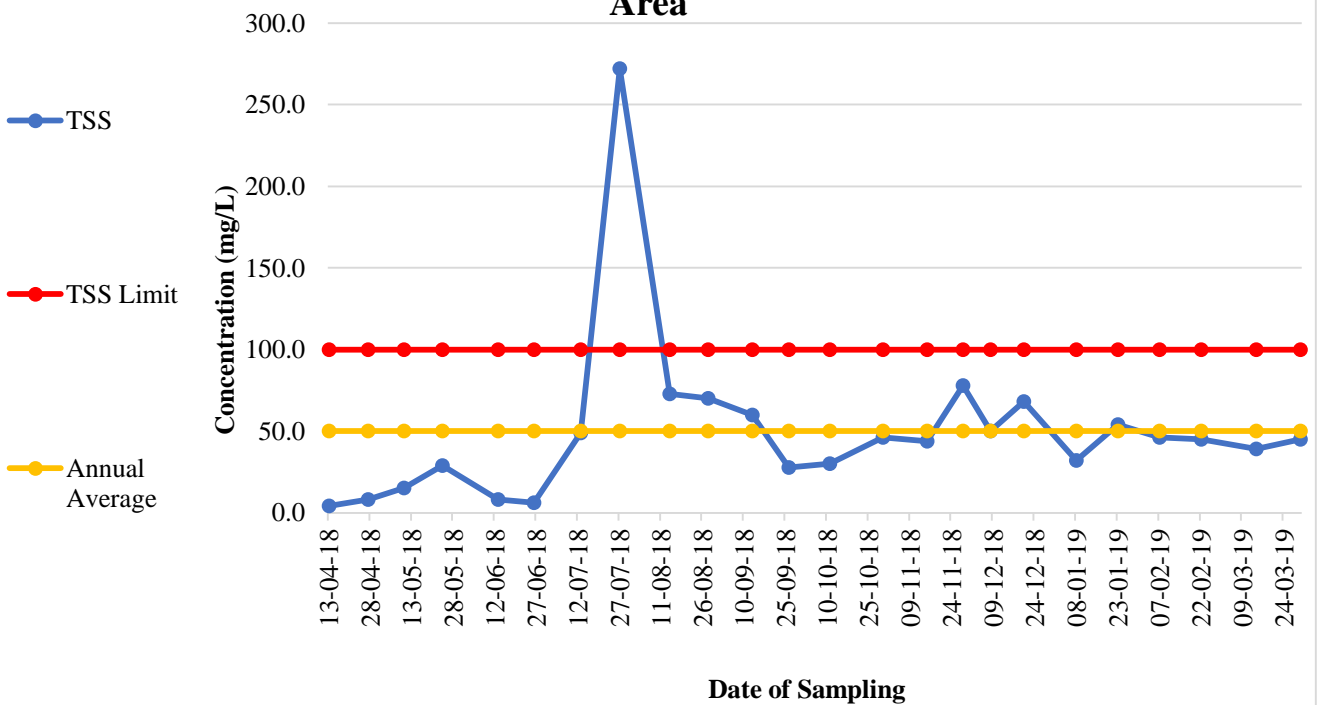
Table:158
Area: Talcher
Project: Mandapal Sand Mine
Monitoring Station: Upstream

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 13/04/18 | 7.54 | <4.0 | 4.4 | 36 |
| 27/04/18 | 7.20 | <4.0 | 8.0 | 56 |
| 10/05/18 | 7.42 | <4.0 | 15.0 | 36 |
| 24/05/18 | 7.69 | 5 | 29.0 | 64 |
| 13/06/18 | 3.09 | <4.0 | 8.0 | 16 |
| 26/06/18 | 7.73 | <4.0 | 6.0 | 16 |
| 13/07/18 | 7.09 | <4.0 | 49.0 | 40 |
| 27/07/18 | 6.93 | 4 | 272.0 | 28 |
| 14/08/18 | 7.40 | <4.0 | 73.0 | 52 |
| 28/08/18 | 7.21 | <4.0 | 70.0 | 28 |
| 13/09/18 | 7.04 | <4.0 | 60.0 | 16 |
| 26/09/18 | 7.10 | <4.0 | 27.6 | 24 |
| 11/10/18 | 7.47 | <4.0 | 30.0 | 44 |
| 30/10/18 | 7.53 | <4.0 | 46.0 | 72 |
| 15/11/18 | 7.69 | <4.0 | 44.0 | 32 |
| 28/11/18 | 7.42 | <4.0 | 78.0 | 60 |
| 08/12/18 | 7.63 | <4.0 | 50.0 | 28 |
| 20/12/18 | 7.49 | <4.0 | 68.0 | 28 |
| 08/01/19 | 7.54 | <4 | 32.0 | 16 |
| 23/01/19 | 7.48 | <4 | 54.0 | 28 |
| 07/02/19 | 7.44 | <4 | 46.0 | 12 |
| 22/02/19 | 7.32 | <4 | 45.0 | 12 |
| 14/03/19 | 7.58 | <4.0 | 39.0 | 12 |
| 30/03/19 | 7.62 | <4.0 | 45.0 | 16 |

Graph showing for pH of Up stream -At 200 m Before leasehold Area



Graph showing for TSS of Up stream -At 200 m Before leasehold Area



Graph showing for COD of Up stream -At 200 m Before leasehold Area

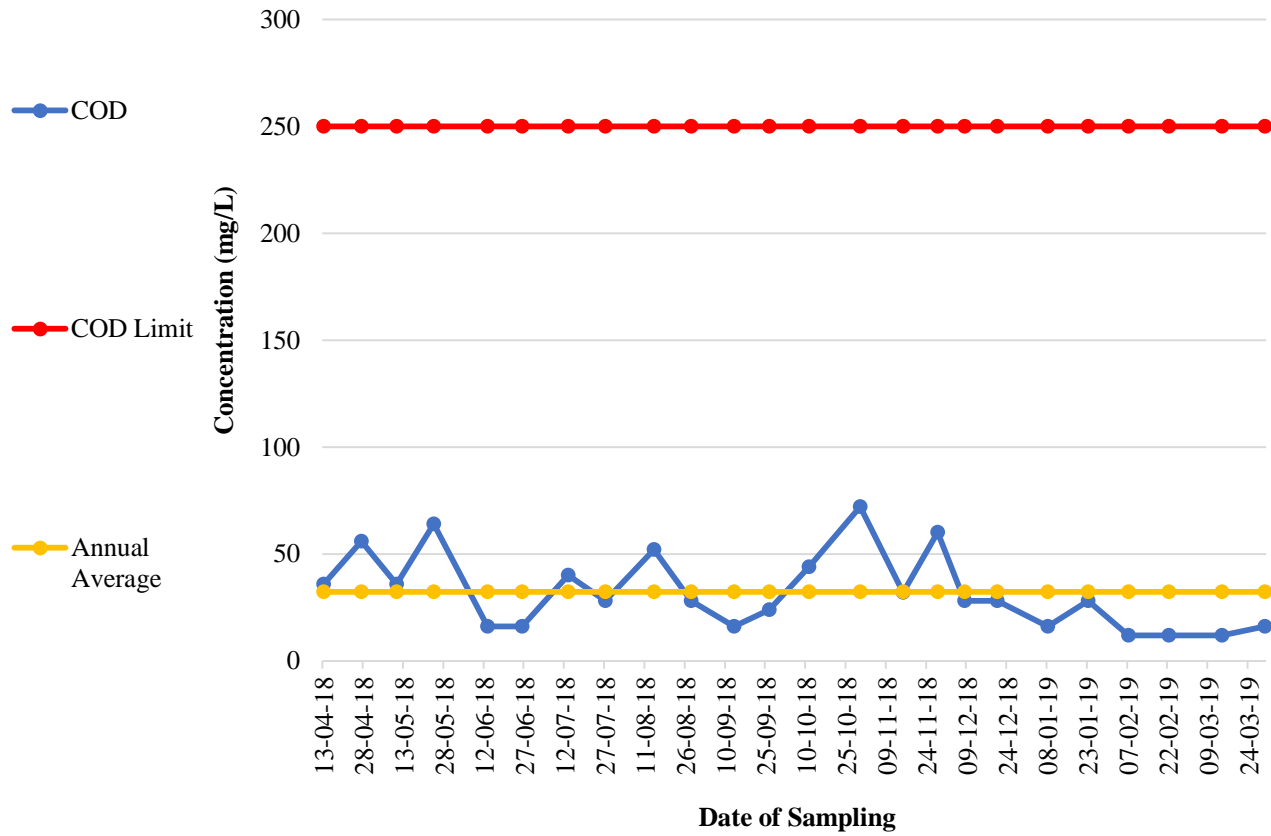
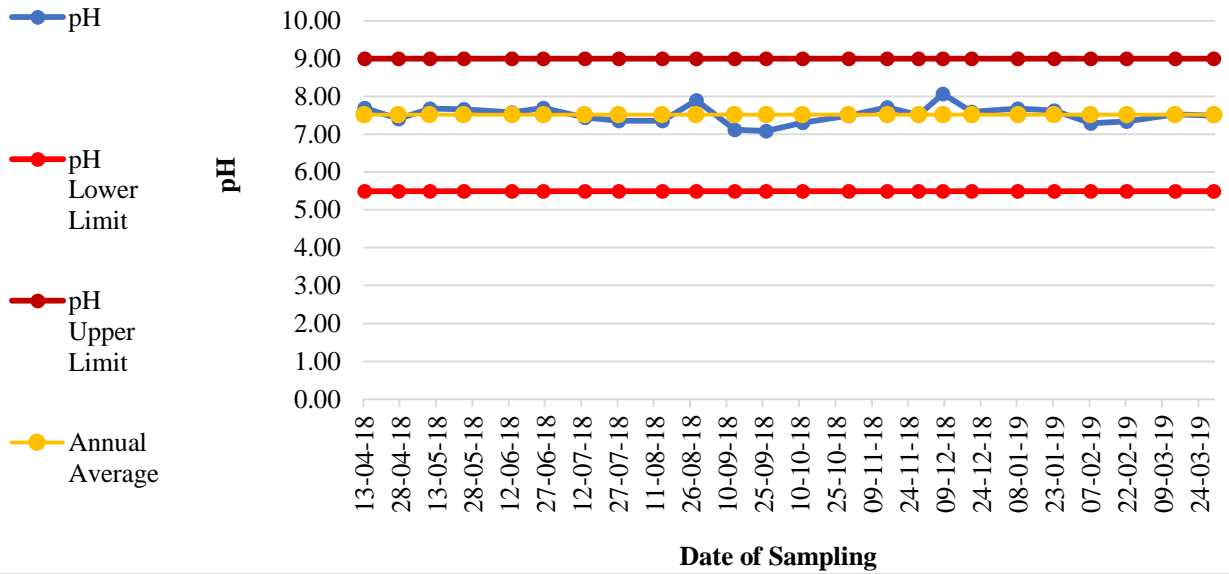


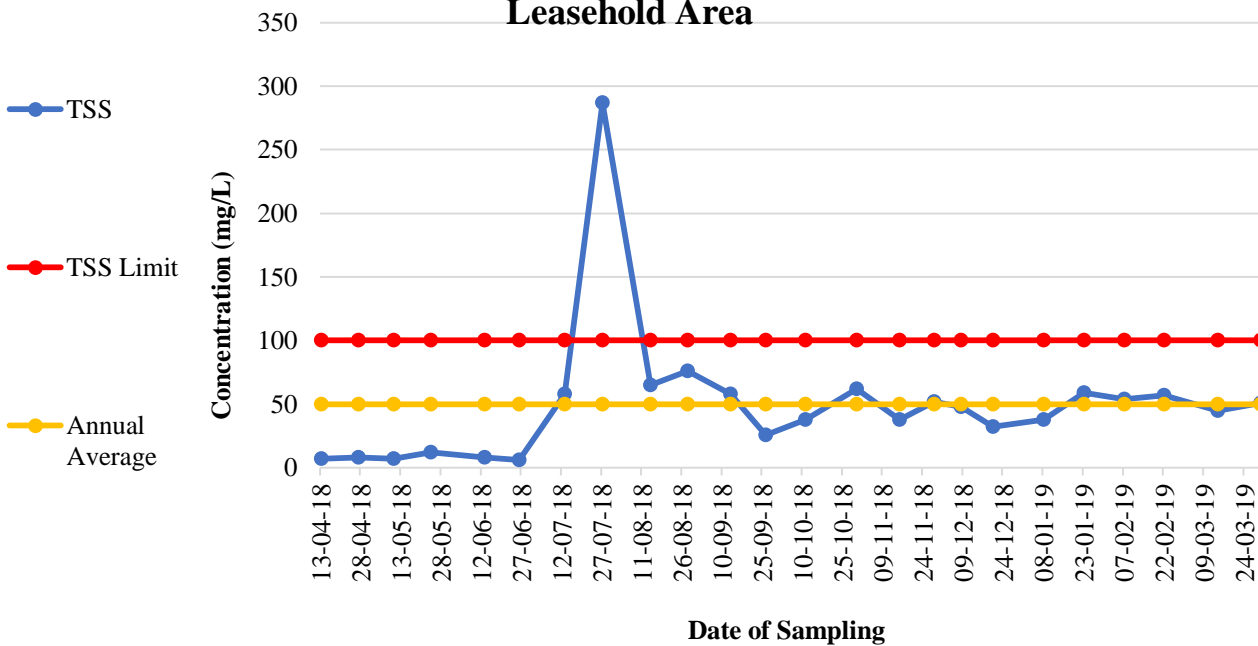
Table:159
Area: Talcher
Project: Mandapal Sand Mine
Monitoring Station: Downstream

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 13/04/18 | 7.70 | <4.0 | 7.2 | 24 |
| 27/04/18 | 7.41 | <4.0 | 8 | 112 |
| 10/05/18 | 7.68 | <4.0 | 7 | 20 |
| 24/05/18 | 7.66 | <4.0 | 12 | 92 |
| 13/06/18 | 7.58 | <4.0 | 8 | 32 |
| 26/06/18 | 7.70 | <4.0 | 6 | 20 |
| 13/07/18 | 7.44 | <4.0 | 58 | 24 |
| 27/07/18 | 7.35 | <4.0 | 287 | 16 |
| 14/08/18 | 7.35 | <4.0 | 65 | 60 |
| 28/08/18 | 7.90 | <4.0 | 76 | 16 |
| 13/09/18 | 7.12 | <4.0 | 58 | 52 |
| 26/09/18 | 7.08 | <4.0 | 25.6 | 28 |
| 11/10/18 | 7.30 | <4.0 | 38 | 52 |
| 30/10/18 | 7.49 | <4.0 | 62 | 52 |
| 15/11/18 | 7.71 | <4.0 | 38 | 16 |
| 28/11/18 | 7.50 | <4.0 | 52 | 28 |
| 08/12/18 | 8.07 | <4.0 | 48 | 24 |
| 20/12/18 | 7.59 | <4.0 | 32 | 12 |
| 08/01/19 | 7.68 | <4 | 38 | 16 |
| 23/01/19 | 7.63 | <4 | 59 | 40 |
| 07/02/19 | 7.28 | <4 | 54 | 16 |
| 22/02/19 | 7.33 | <4 | 57 | 16 |
| 14/03/19 | 7.52 | <4.0 | 45 | 16 |
| 30/03/19 | 7.49 | <4.0 | 51 | 16 |

Graph showing for pH of Downstream -At 200 m Before Leasehold Area



Graph showing for TSS of Downstream -At 200 m Before Leasehold Area



Graph showing for COD of Downstream -At 200 m Before Leasehold Area

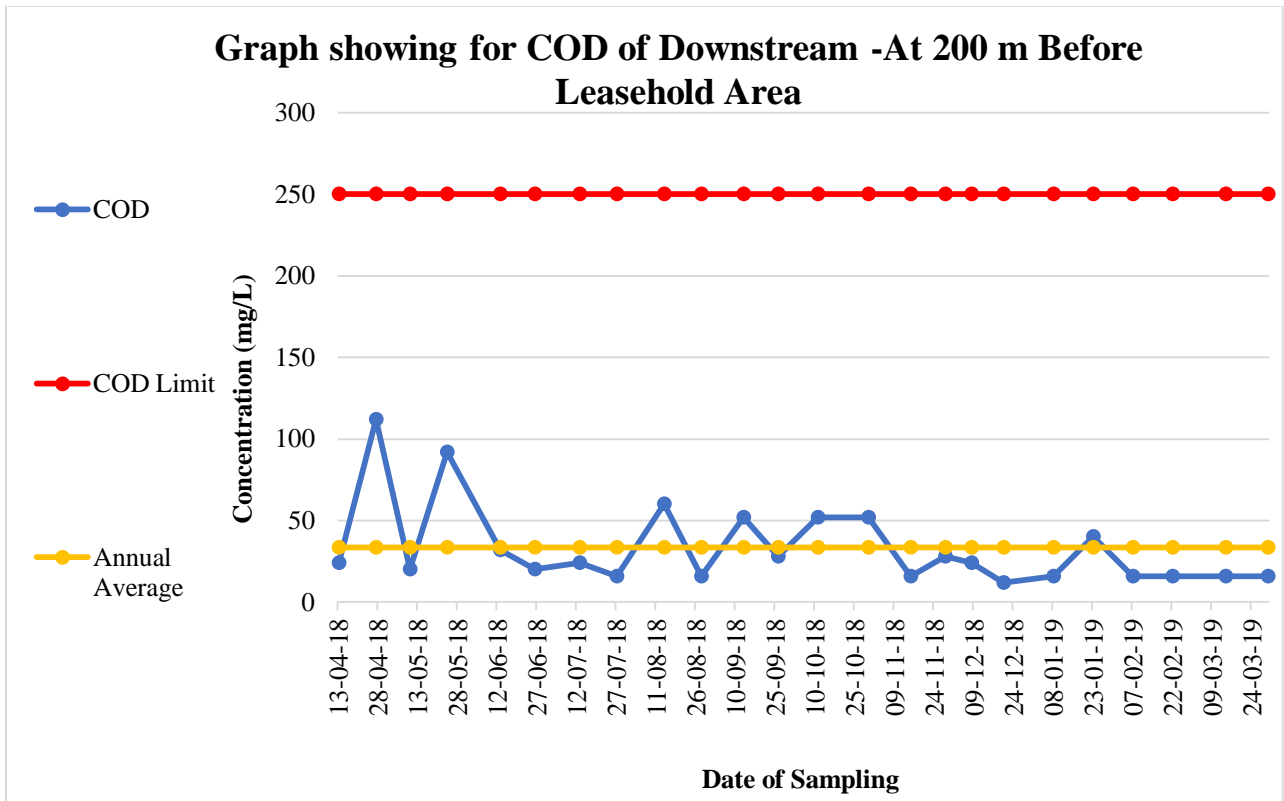
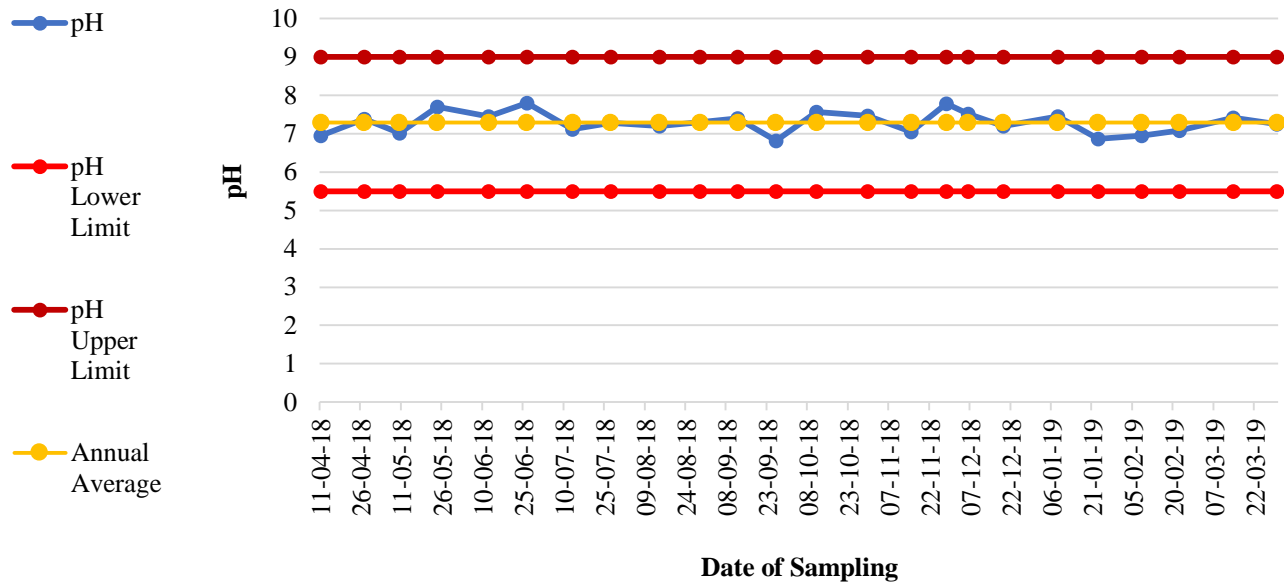


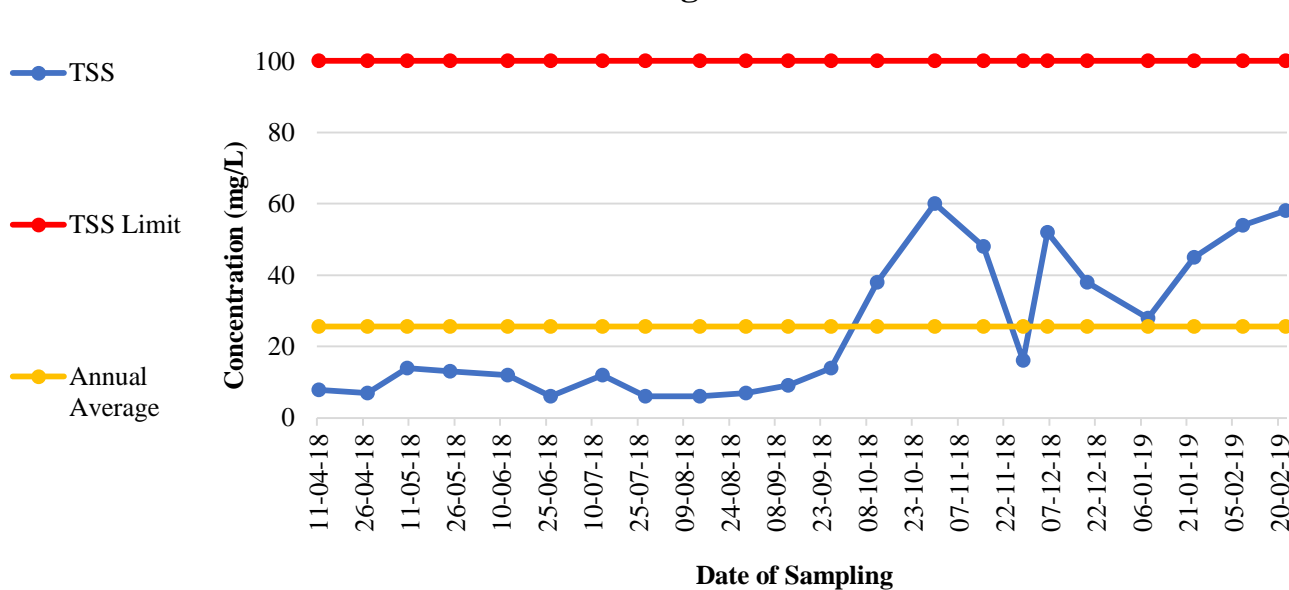
Table:160
Area: Talcher
Project: Nandira Colliery
Monitoring Station: Nandira Colliery Sedimentation

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|------|---------------------|------------|------------|
| 11/04/18 | 6.94 | <4.0 | 7.8 | 36 |
| 27/04/18 | 7.38 | <4.0 | 7 | 64 |
| 10/05/18 | 7.01 | <4.0 | 14 | 32 |
| 24/05/18 | 7.70 | <4.0 | 13 | 52 |
| 12/06/18 | 7.45 | <4.0 | 12 | 12 |
| 26/06/18 | 7.79 | <4.0 | 6 | 20 |
| 13/07/18 | 7.11 | 6.8 | 12 | 32 |
| 27/07/18 | 7.28 | 5.6 | 6 | 44 |
| 14/08/18 | 7.20 | <4.0 | 6 | 48 |
| 29/08/18 | 7.30 | <4.0 | 7 | 38 |
| 12/09/18 | 7.40 | <4.0 | 9 | 16 |
| 26/09/18 | 6.81 | <4.0 | 14 | 44 |
| 11/10/18 | 7.57 | <4.0 | 38 | 32 |
| 30/10/18 | 7.47 | <4.0 | 60 | 96 |
| 15/11/18 | 7.04 | <4.0 | 48 | 28 |
| 28/11/18 | 7.78 | <4.0 | 16 | 12 |
| 06/12/18 | 7.51 | <4.0 | 52 | 32 |
| 19/12/18 | 7.20 | <4.0 | 38 | 16 |
| 08/01/19 | 7.45 | <4.0 | 28 | 20 |
| 23/01/19 | 6.87 | <4.0 | 45 | 16 |
| 08/02/19 | 6.95 | <4.0 | 54 | 16 |
| 22/02/19 | 7.08 | <4.0 | 58 | 40 |
| 14/03/19 | 7.41 | <4.0 | 27 | 12 |
| 30/03/19 | 7.24 | <4.0 | 35 | 12 |

Graph showing for pH of Nandira Colliery Sedimentation Tank Discharge



Graph showing for TSS of Nandira Colliery Sedimentation Tank Discharge



Graph showing for COD of Nandira Colliery Sedimentation Tank Discharge

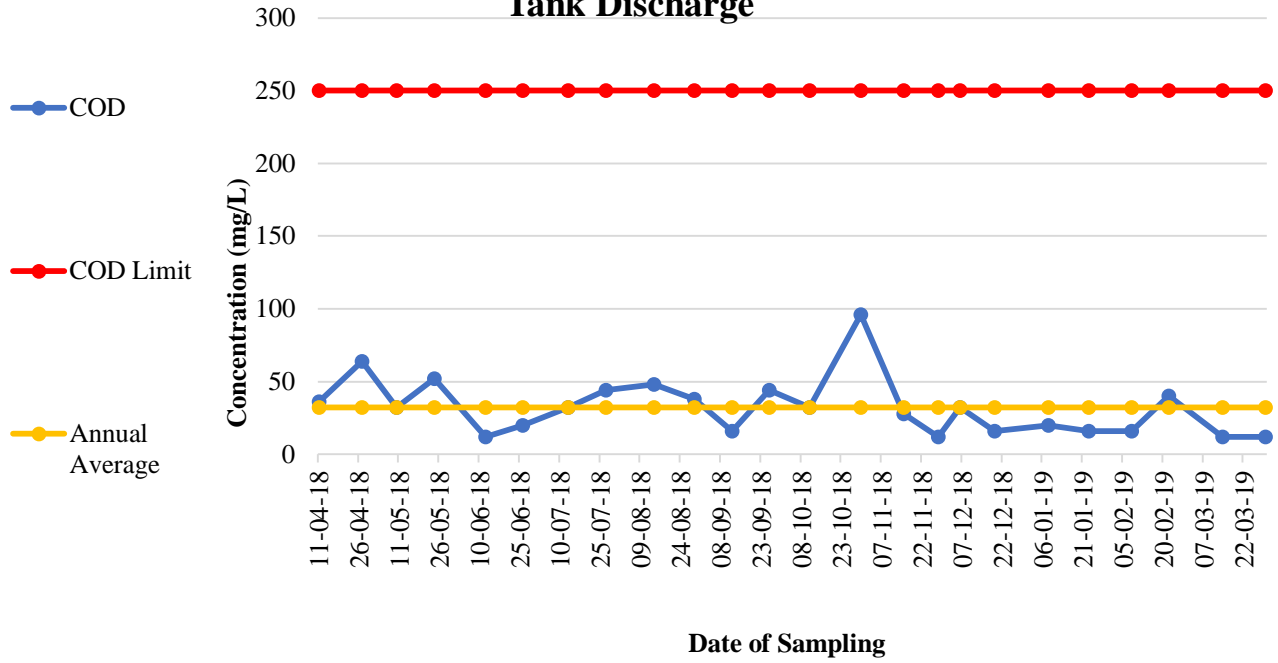
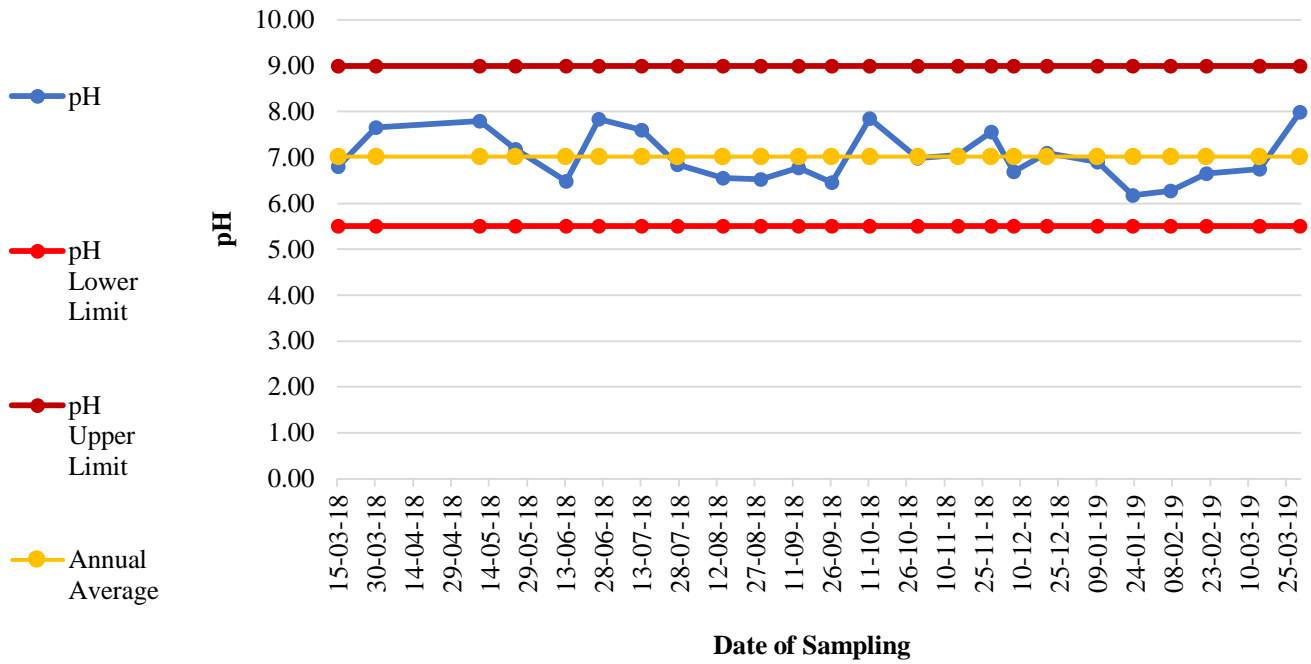


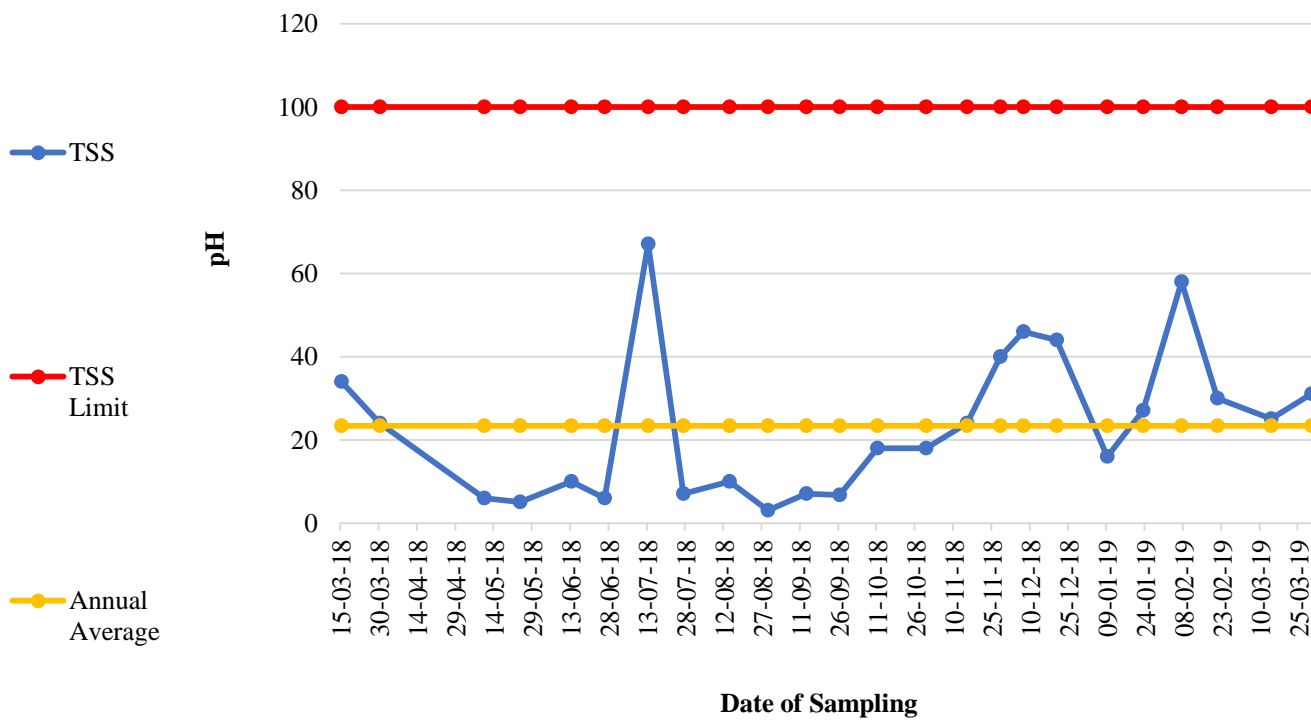
Table:161
Area: Talcher
Project: Deulbera Colliery
Monitoring Station: Ranipark Submersible Pump

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 10/05/18 | 7.79 | <4.0 | 6 | 28 |
| 24/05/18 | 7.18 | 8 | 5 | 36 |
| 13/06/18 | 6.48 | <4.0 | 10 | 20 |
| 26/06/18 | 7.83 | <4.0 | 6 | 16 |
| 13/07/18 | 7.60 | <4.0 | 67 | 40 |
| 27/07/18 | 6.84 | 6.2 | 7 | 28 |
| 14/08/18 | 6.55 | <4.0 | 10 | 48 |
| 29/08/18 | 6.52 | <4.0 | 3 | 24 |
| 13/09/18 | 6.78 | <4.0 | 7 | 64 |
| 26/09/18 | 6.45 | <4.0 | 6.8 | 20 |
| 11/10/18 | 7.85 | <4.0 | 18 | 20 |
| 30/10/18 | 6.99 | <4.0 | 18 | 16 |
| 15/11/18 | 7.06 | <4.0 | 24 | 36 |
| 28/11/18 | 7.56 | <4.0 | 40 | 20 |
| 07/12/18 | 6.69 | <4.0 | 46 | 24 |
| 20/12/18 | 7.10 | <4.0 | 44 | 20 |
| 09/01/19 | 6.90 | <4.0 | 16 | 8 |
| 23/01/19 | 6.17 | <4.0 | 27 | 8 |
| 07/02/19 | 6.27 | <4.0 | 58 | 16 |
| 21/02/19 | 6.65 | <4.0 | 30 | 8 |
| 14/03/19 | 6.75 | <4.0 | 25 | 12 |
| 30/03/19 | 7.99 | <4.0 | 31 | 16 |

Graph showing for pH of Ranipark Submersible Pump



Graph showing for TSS of Ranipark Submersible Pump



Graph showing for COD of Ranipark Submersible Pump

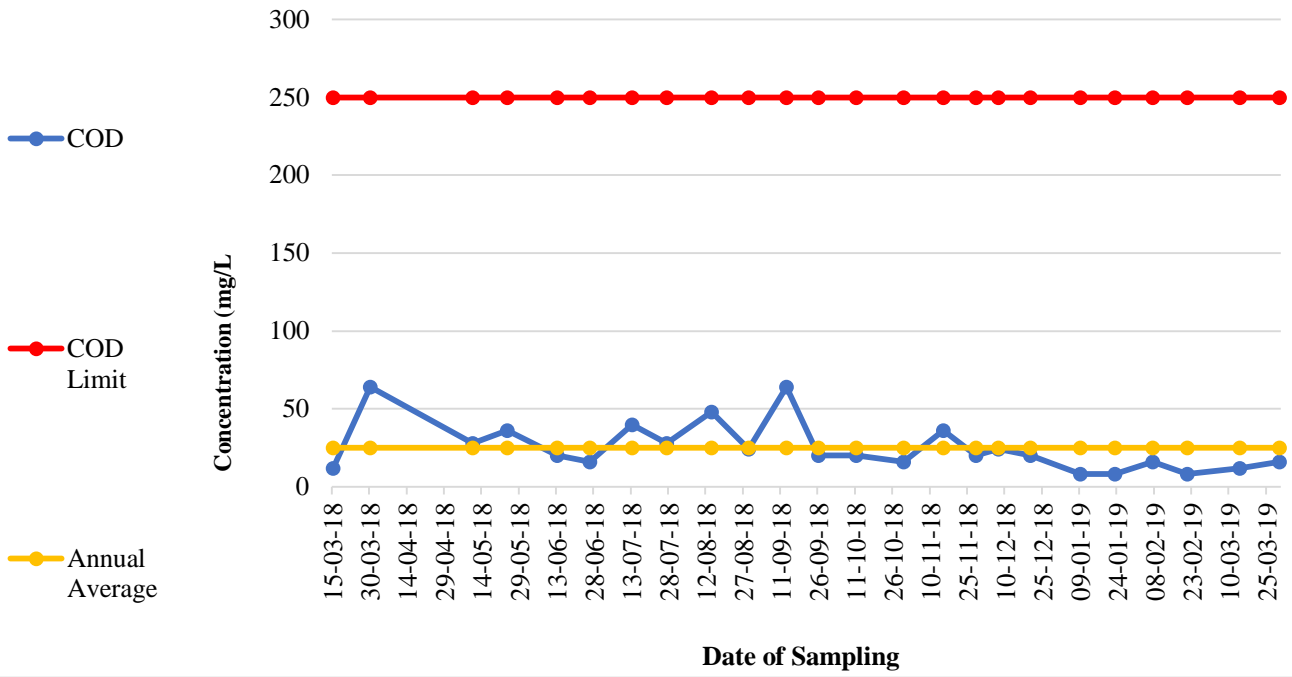
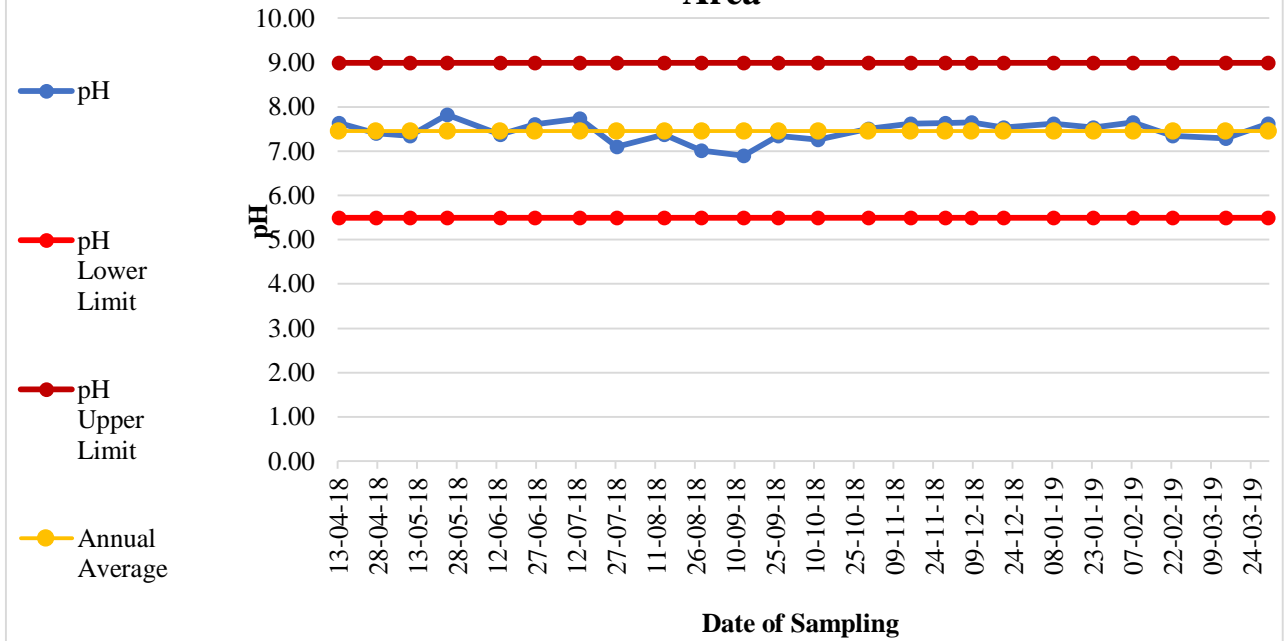


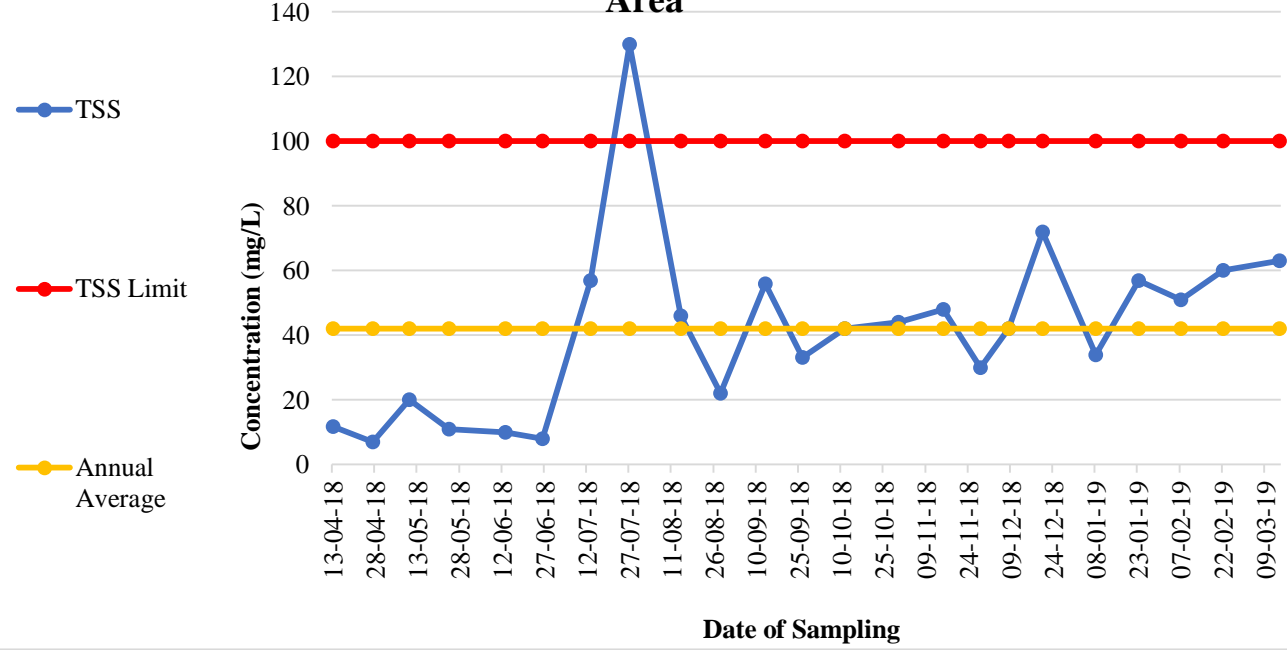
Table:162
Area: Talcher
Project: Kakudi & Kishoripal Sand mine
Monitoring Station: Upstream- At 200 m after Leasehold Area

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | CO D (mg/l) |
|------------------|------|---------------------|------------|-------------|
| 13/04/18 | 7.63 | <4.0 | 11.8 | 104 |
| 27/04/18 | 7.4 | <4.0 | 7 | 112 |
| 10/05/18 | 7.35 | <4.0 | 20 | 28 |
| 24/05/18 | 7.82 | <4.0 | 11 | 32 |
| 13/06/18 | 7.37 | <4.0 | 10 | 16 |
| 26/06/18 | 7.6 | <4.0 | 8 | 20 |
| 13/07/18 | 7.74 | 5.6 | 57 | 20 |
| 27/07/18 | 7.1 | 7.4 | 130 | 20 |
| 14/08/18 | 7.38 | <4.0 | 46 | 52 |
| 28/08/18 | 7.01 | <4.0 | 22 | 24 |
| 13/09/18 | 6.9 | <4.0 | 56 | 80 |
| 26/09/18 | 7.35 | <4.0 | 33.2 | 40 |
| 11/10/18 | 7.26 | <4.0 | 42 | 56 |
| 30/10/18 | 7.5 | <4.0 | 44 | 48 |
| 15/11/18 | 7.62 | <4.0 | 48 | 32 |
| 28/11/18 | 7.63 | <4.0 | 30 | 20 |
| 08/12/18 | 7.65 | <4.0 | 42 | 20 |
| 20/12/18 | 7.53 | 4.4 | 72 | 36 |
| 08/01/19 | 7.62 | <4.0 | 34 | 12 |
| 23/01/19 | 7.53 | <4.0 | 57 | 16 |
| 07/02/19 | 7.65 | <4.0 | 51 | 20 |
| 22/02/19 | 7.35 | <4.0 | 60 | 16 |
| 14/03/19 | 7.29 | <4.0 | 63 | 20 |
| 30/03/19 | 7.62 | <4.0 | 53 | 20 |

Graph showing for pH of Upstream - At 200 m after Leasehold Area



Graph showing for TSS of Upstream - At 200 m after Leasehold Area



Graph showing for COD of Upstream - At 200 m after Leasehold Area

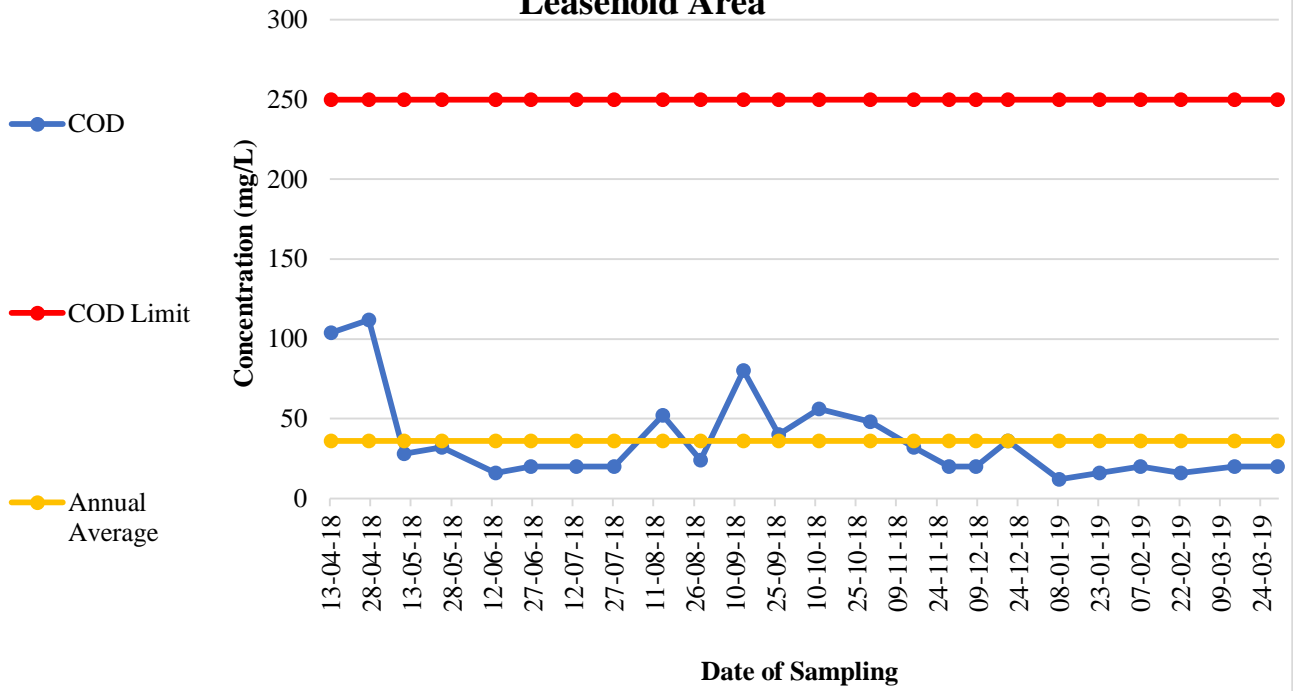
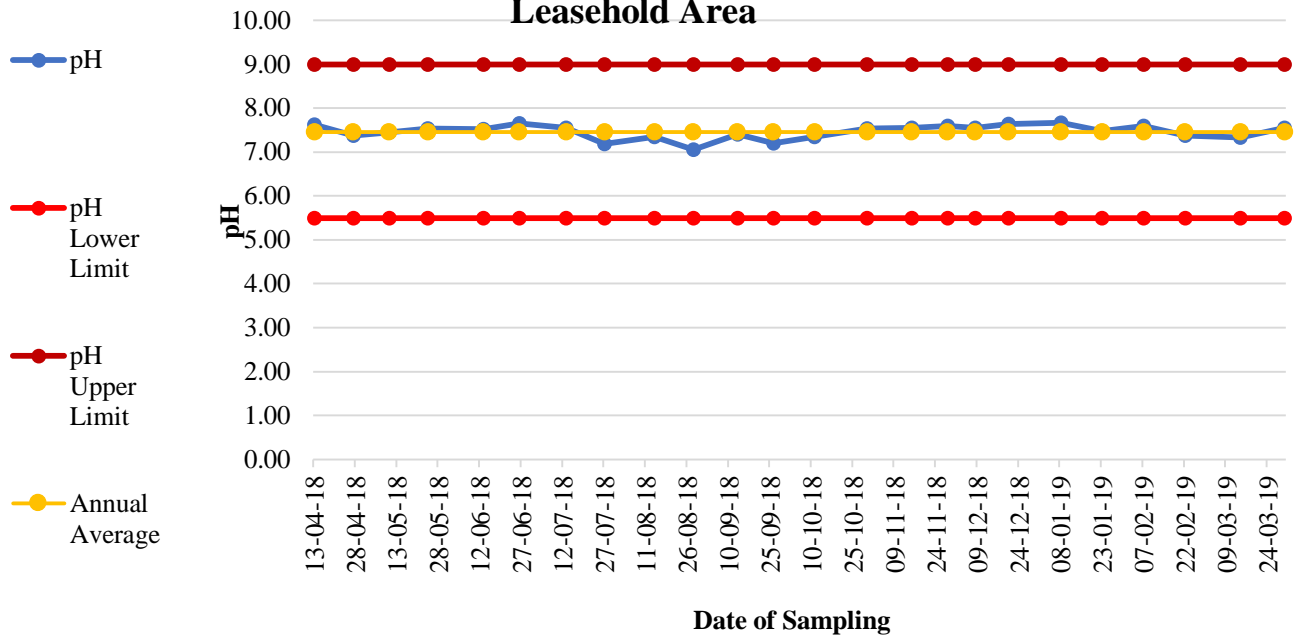


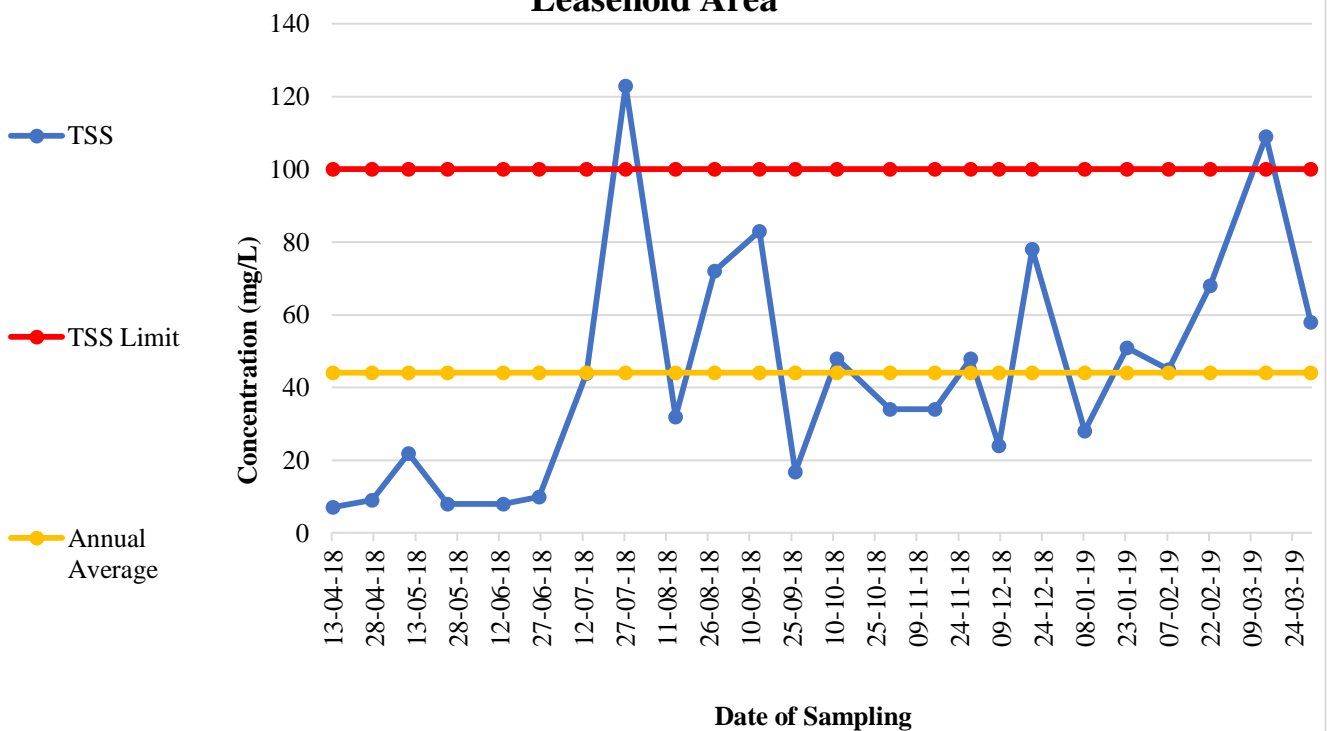
Table:163
Area: Talcher
Project: Kakudi & Kishoripal Sand mine
Monitoring Station: Downstream- At 200 m Before Leasehold Area

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|-------------------------|-----------|--------------------------------|-------------------|-------------------|
| 13/04/18 | 7.62 | <4.0 | 7.2 | 56 |
| 27/04/18 | 7.38 | 9.0 | 9 | 52 |
| 10/05/18 | 7.44 | <4.0 | 22 | 28 |
| 24/05/18 | 7.54 | <4.0 | 8 | 40 |
| 13/06/18 | 7.52 | <4.0 | 8 | 28 |
| 26/06/18 | 7.65 | <4.0 | 10 | 16 |
| 13/07/18 | 7.55 | <4.0 | 44 | 20 |
| 27/07/18 | 7.19 | <4.0 | 123 | 28 |
| 14/08/18 | 7.34 | <4.0 | 32 | 36 |
| 28/08/18 | 7.05 | <4.0 | 72 | 12 |
| 13/09/18 | 7.40 | <4.0 | 83 | 180 |
| 26/09/18 | 7.20 | <4.0 | 16.8 | 20 |
| 11/10/18 | 7.35 | <4.0 | 48 | 64 |
| 30/10/18 | 7.54 | <4.0 | 34 | 40 |
| 15/11/18 | 7.55 | <4.0 | 34 | 12 |
| 28/11/18 | 7.59 | <4.0 | 48 | 32 |
| 08/12/18 | 7.55 | <4.0 | 24 | 16 |
| 20/12/18 | 7.64 | 4.8 | 78 | 40 |
| 08/01/19 | 7.66 | <4.0 | 28 | 8 |
| 23/01/19 | 7.47 | <4.0 | 51 | 12 |
| 07/02/19 | 7.60 | <4.0 | 45 | 8 |
| 22/02/19 | 7.37 | <4.0 | 68 | 24 |
| 14/03/19 | 7.33 | <4.0 | 109 | 32 |
| 30/03/19 | 7.55 | <4.0 | 58 | 20 |

Graph showing for pH of Downstream - At 200 m Before Leasehold Area



Graph showing for TSS of Downstream - At 200 m Before Leasehold Area



Graph showing for COD of Downstream - At 200 m Before Leasehold Area

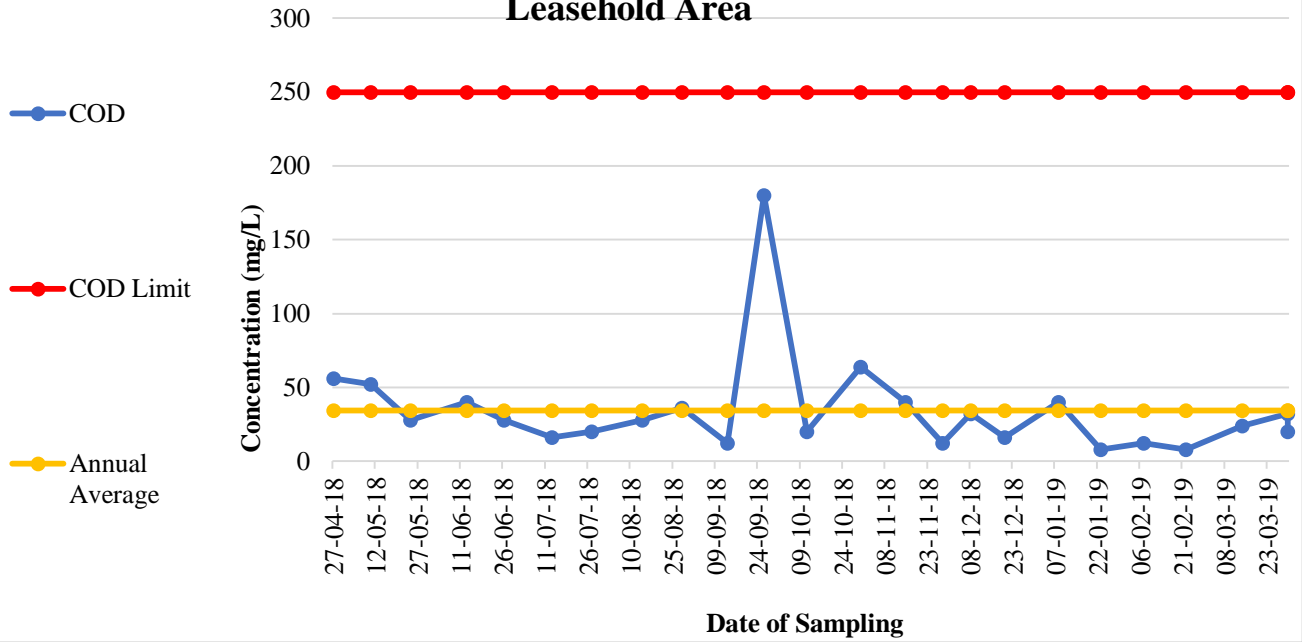
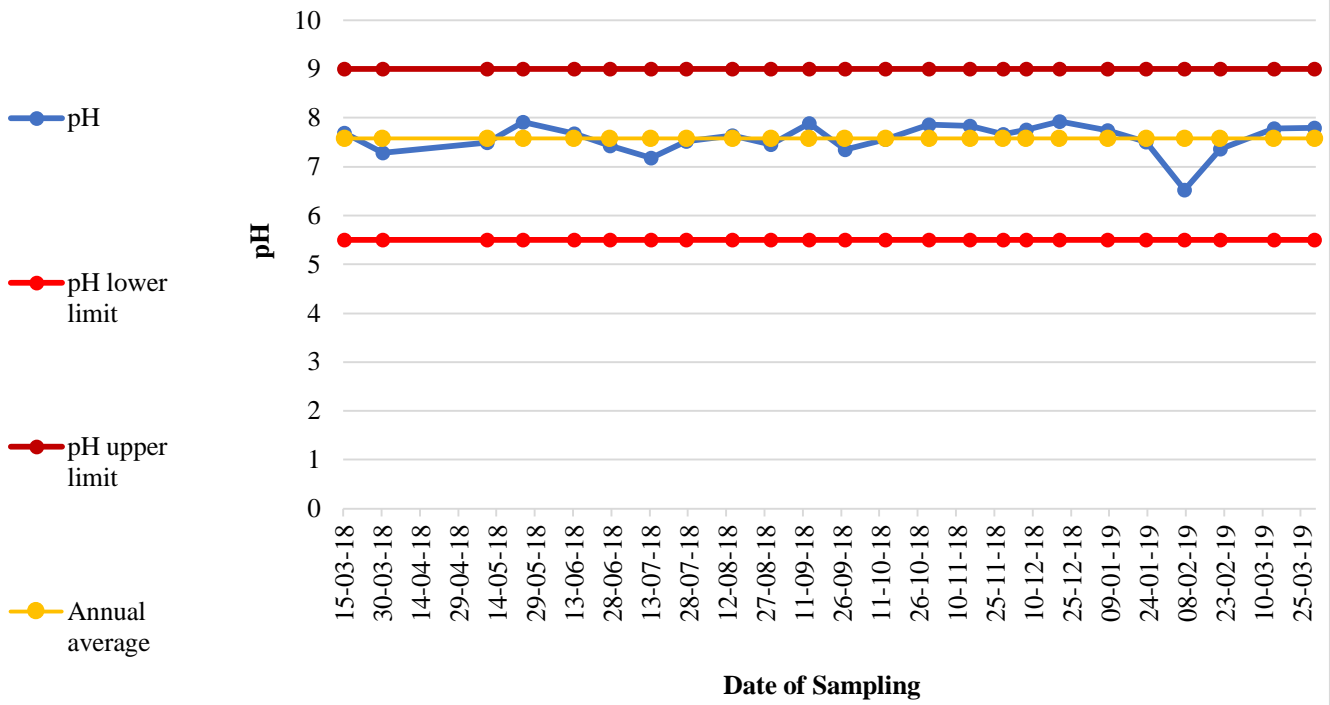


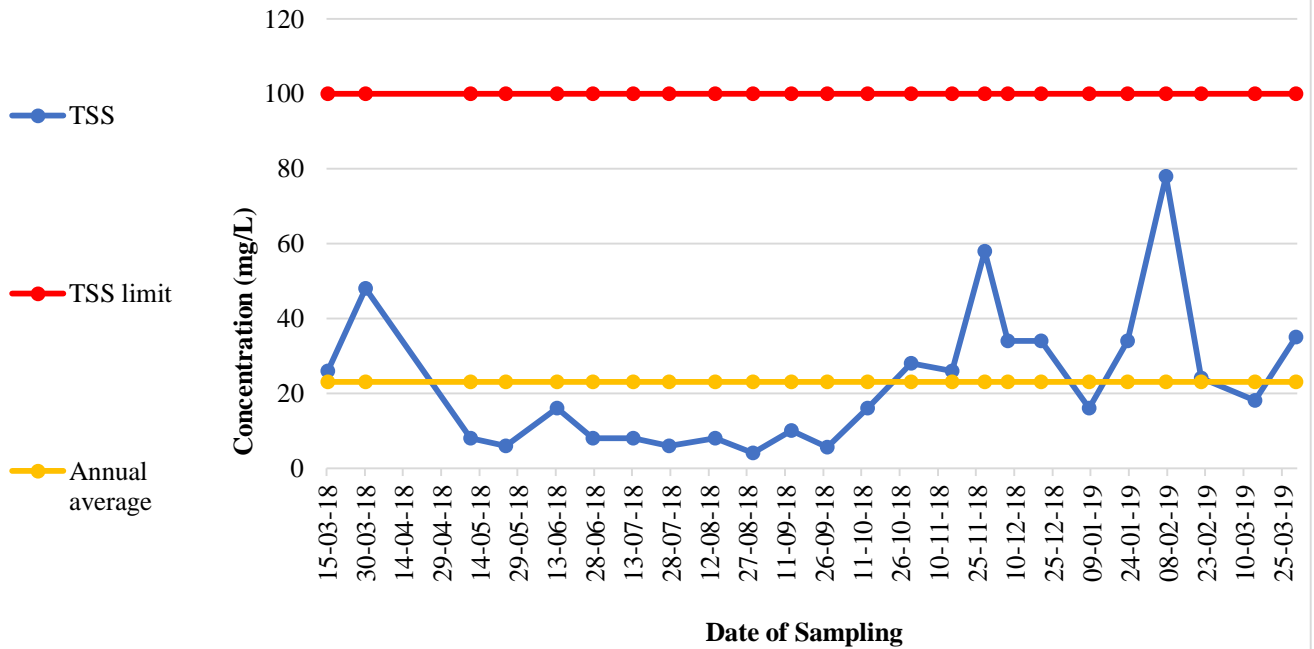
Table: 164
Area: Talcher
Project: Handidhwa Colliery
Monitoring Station: Handidhwa Colliery Mine Discharge

| Date of Sampling | pH | Oil & Grease (mg/l) | TSS (mg/l) | COD (mg/l) |
|------------------|------|---------------------|------------|------------|
| 10-05-18 | 7.49 | <4.0 | 8 | 20 |
| 24-05-18 | 7.92 | <4.0 | 6 | 56 |
| 13-06-18 | 7.68 | <4.0 | 16 | 20 |
| 27-06-18 | 7.43 | <4.0 | 8 | 12 |
| 13-07-18 | 7.18 | <4.0 | 8 | 16 |
| 27-07-18 | 7.52 | <4.0 | 6 | 20 |
| 14-08-18 | 7.64 | <4.0 | 8 | 56 |
| 29-08-18 | 7.46 | <4.0 | 4 | 24 |
| 13-09-18 | 7.89 | <4.0 | 10 | 44 |
| 27-09-18 | 7.35 | <4.0 | 5.6 | 16 |
| 13-10-18 | 7.56 | <4.0 | 16 | 20 |
| 30-10-18 | 7.86 | <4.0 | 28 | 24 |
| 15-11-18 | 7.84 | <4.0 | 26 | 12 |
| 28-11-18 | 7.66 | <4.0 | 58 | 32 |
| 07-12-18 | 7.76 | <4.0 | 34 | 20 |
| 20-12-18 | 7.93 | <4.0 | 34 | 16 |
| 08-01-19 | 7.74 | <4 | 16 | 8 |
| 23-01-19 | 7.51 | <4 | 34 | 12 |
| 07-02-19 | 6.52 | <4 | 78 | 36 |
| 21-02-19 | 7.36 | <4 | 24 | 16 |
| 14-03-19 | 7.78 | <4.0 | 18 | 8 |
| 30-03-19 | 7.8 | <4.0 | 35 | 12 |

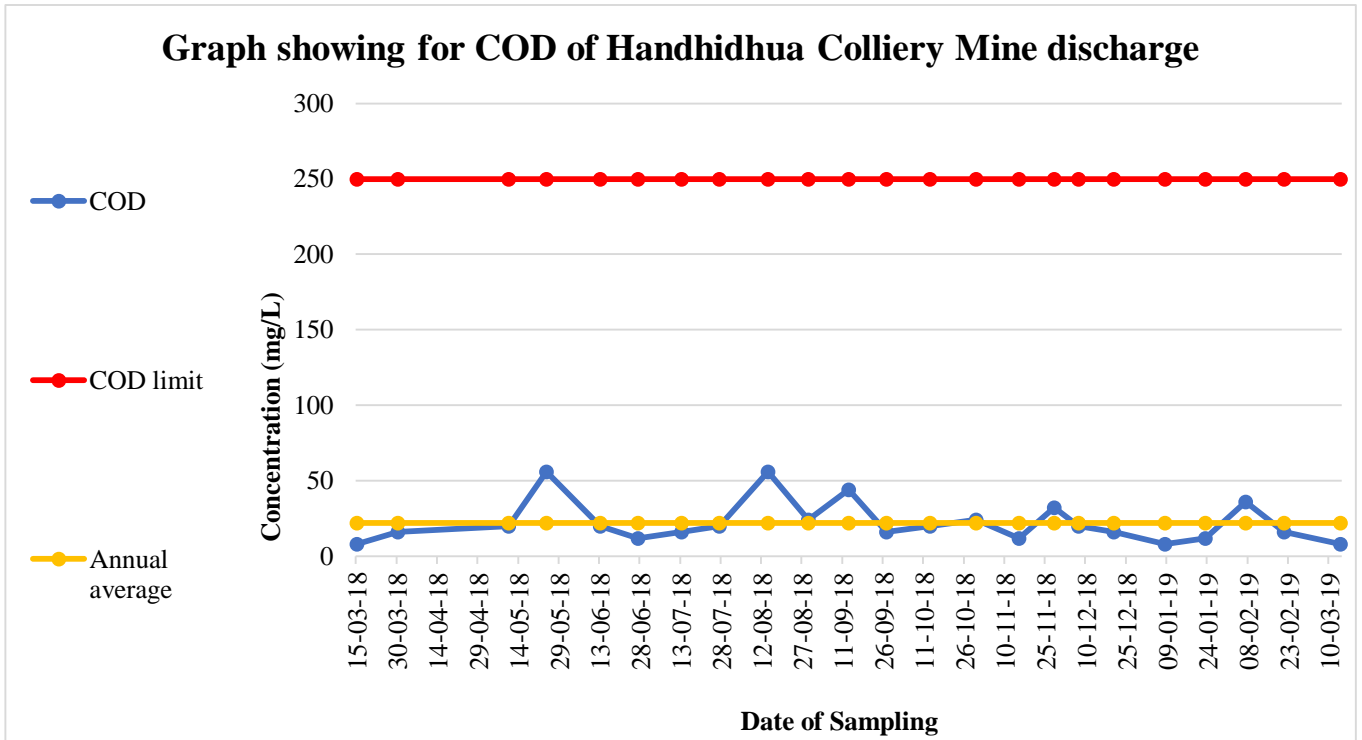
Graph showing for pH of Handhidhua Colliery Mine Discharge



Graph showing for TSS of Handhidhua Colliery Mine discharge



Graph showing for COD of Handhidhua Colliery Mine discharge



EFFLUENT QUALITY (ALL PARAMETER): JAGANNATH AREA

Table: 165

| Project (OCP / UG) | Jagannath | Ananta | MoEF-Sch-VI Standards |
|--------------------------------------|-----------------|-------------------|---|
| NAME OF THE STATION | West sump water | Mine disch. Water | |
| Date | 14-11-2018 | 15-11-2018 | |
| Colour(Hazen) | 9 | DRY | – |
| Odour | Unobjectionable | DRY | – |
| Temperature(°C) | 18 | DRY | Shall not exceed 5 °C above the receiving temperature |
| Nitrate Nitrogen (mg/L) (as N) | <5 | DRY | 10 |
| Ammonical Nitrogen, mg/l (as N) | <0.5 | DRY | 50 |
| Total Kjeldhal Nitrogen, mg/l (as N) | <1.0 | DRY | 100 |
| BOD (3 days at 27°C) (mg/L) | 4.8 | DRY | 30 |
| Arsenic, mg/l | <0.002 | DRY | 0.2 |
| Lead, mg/l | <0.005 | DRY | 0.1 |
| Hexavalent Chromium(mg/L) | <0.01 | DRY | 0.1 |
| Total Chromium(mg/L) | <0.05 | DRY | 2 |
| Copper(mg/L) | <0.03 | DRY | 3 |
| Zinc(mg/L) | 0.06 | DRY | 5 |
| Cadmium, mg/l | <0.0005 | DRY | 2 |
| Nickel(mg/L) | <0.1 | DRY | 3 |
| Fluoride(mg/L) | 0.52 | DRY | 2 |
| Manganese(mg/L) | 0.15 | DRY | 2 |
| Iron(mg/L) | <0.06 | DRY | 3 |
| Dissolved Phosphate(mg/L) | 1.77 | DRY | 5 |

EFFLUENT QUALITY (ALL PARAMETER): BHARATPUR AREA

Table: 166

| Project (OCP / UG) | Bharatpur | Bharatpur | MoEF-Sch-VI Standards |
|--------------------------------------|----------------------------------|-----------------|---|
| NAME OF THE STATION | Work ETP Clear Water Tank Outlet | STP Outlet | |
| Date | 15-11-2018 | 15-11-2018 | |
| Colour(Hazen) | 47 | 29 | – |
| Odour | Unobjectionable | Unobjectionable | – |
| Temperature(°C) | 19.2 | 19.1 | Shall not exceed 5 °C above the receiving temperature |
| Nitrate Nitrogen (mg/L) (as N) | <5 | 6.17 | 10 |
| Ammonical Nitrogen , mg/l (as N) | <0.5 | <0.5 | 50 |
| Total Kjeldhal Nitrogen, mg/l (as N) | <1.0 | <1.0 | 100 |
| BOD [3 days at 27°C) (mg/L) | 3.3 | 5.4 | 30 |
| Arsenic, mg/l | <0.002 | 0.002 | 0.2 |
| Lead, mg/l | <0.005 | <0.005 | 0.1 |
| Hexavalent Chromium(mg/L) | <0.01 | <0.01 | 0.1 |
| Total Chromium(mg/L) | <0.05 | <0.05 | 2 |
| Copper(mg/L) | <0.03 | 0.03 | 3 |
| Zinc(mg/L) | 0.02 | 0.2 | 5 |
| Cadmium, mg/l | <0.0005 | <0.0005 | 2 |
| Nickel(mg/L) | <0.1 | <0.1 | 3 |
| Fluoride(mg/L) | 0.39 | 0.51 | 2 |
| Manganese(mg/L) | <0.02 | <0.02 | 2 |
| Iron(mg/L) | <0.06 | <0.06 | 3 |
| Dissolved Phosphate(mg/L) | 3.12 | 1.71 | 5 |

EFFLUENT QUALITY (ALL PARAMETER): LINGRAJ AREA

Table: 167

| Project (OCP / UG) | Lingaraj | Lingaraj | |
|---|---|---|--|
| NAME OF THE STATION | Clear Water Tank Of Sedimentation Pond Complex Near Lingraj Siding | Clear Water Tank Of Sedimentation Pond Complex Near Deulbera | MoEF-Sch-VI Standards |
| Date | 13-11-2018 | 10-11-2018 | |
| Colour(Hazen) | 6 | 8 | – |
| Odour | Unobjectionable | Unobjectionable | – |
| Temperature(°C) | 19.5 | 18.52 | Shall not exceed 5 °C above the receiving temperature |
| Nitrate Nitrogen (mg/L) (as N) | <5 | <5 | 10 |
| Ammonical Nitrogen , mg/l (as N) | <0.5 | <0.5 | 50 |
| Total Kjeldhal Nitrogen, mg/l (as N) | <1.0 | <1.0 | 100 |
| BOD (3 days at 27°C) (mg/L) | 2.1 | 2.8 | 30 |
| Arsenic, mg/l | <0.002 | <0.002 | 0.2 |
| Lead, mg/l | <0.005 | <0.005 | 0.1 |
| Hexavalent Chromium(mg/L) | <0.01 | <0.01 | 0.1 |
| Total Chromium(mg/L) | <0.05 | <0.05 | 2 |
| Copper(mg/L) | <0.03 | <0.03 | 3 |
| Zinc(mg/L) | 0.02 | 0.04 | 5 |
| Cadmium, mg/l | <0.0005 | <0.0005 | 2 |
| Nickel(mg/L) | <0.1 | <0.1 | 3 |
| Fluoride(mg/L) | 0.57 | 0.38 | 2 |
| Manganese(mg/L) | <0.02 | <0.02 | 2 |
| Iron(mg/L) | <0.06 | <0.06 | 3 |
| Dissolved Phosphate(mg/L) | 3.02 | 2.03 | 5 |

EFFLUENT QUALITY (ALL PARAMETER): KANIHA AREA

Table: 168

| Project (OCP / UG) | Kaniha | | MoEF-Sch-VI Standards |
|---|------------------------|-------------------|--|
| | Pre Sedimentation Pond | Clear Water Pond | |
| NAME OF THE STATION | | | |
| Date | 14-11-2018 | 14-11-2018 | |
| Colour(Hazen) | 84 | 96 | – |
| Odour | Unobjectionable | Unobjectionable | – |
| Temperature(^oC) | 18.5 | 19.2 | Shall not exceed 5^oC above the receiving temperature |
| Nitrate Nitrogen(mg/L)(As N) | <5 | <5 | 10 |
| Ammonical Nitrogen , mg/l (as N) | <0.5 | <0.5 | 50 |
| Total Kjeldhal Nitrogen, mg/l (as N) | <1.0 | <1.0 | 100 |
| BOD (3 days at 27^oC) (mg/L) | 2.6 | 2.9 | 30 |
| Arsenic, mg/l | <0.002 | <0.002 | 0.2 |
| Lead, mg/l | <0.005 | <0.005 | 0.1 |
| Hexavalent Chromium(mg/L) | <0.01 | <0.01 | 0.1 |
| Total Chromium(mg/L) | <0.05 | <0.05 | 2 |
| Copper(mg/L) | <0.03 | <0.03 | 3 |
| Zinc(mg/L) | 0.53 | 0.06 | 5 |
| Cadmium, mg/l | <0.0005 | <0.0005 | 2 |
| Nickel(mg/L) | <0.1 | <0.1 | 3 |
| Fluoride(mg/L) | 0.54 | 0.48 | 2 |
| Manganese(mg/L) | <0.02 | 0.03 | 2 |
| Iron(mg/L) | 0.4 | 0.11 | 3 |
| Dissolved Phosphate(mg/L) | 4.79 | 4.63 | 5 |

EFFLUENT QUALITY (ALL PARAMETER): TALCHER AREA

Table: 169

| Project (OCP / UG) | Talcher colliery | Nandira colliery | MoEF-Sch-VI Standards |
|--------------------------------------|---|---|---|
| NAME OF THE STATION | Talcher colliery Sedimentation Tank discharge | Nandira colliery Sedimentation Tank discharge | |
| Date | 15-11-2018 | 15-11-2018 | |
| Colour(Hazen) | 3 | 23 | – |
| Odour | Unobjectionable | Unobjectionable | – |
| Temperature(°C) | 19.1 | 18.5 | Shall not exceed 5 °C above the receiving temperature |
| Nitrate Nitrogen (mg/L) (as N) | <5 | <5 | 10 |
| Ammonical Nitrogen , mg/l (as N) | <0.5 | <0.5 | 50 |
| Total Kjeldhal Nitrogen, mg/l (as N) | <1.0 | <1.0 | 100 |
| BOD (3 days at 27°C)(mg/L) | 1.8 | 3 | 30 |
| Arsenic, mg/l | <0.002 | <0.002 | 0.2 |
| Lead, mg/l | <0.005 | <0.005 | 0.1 |
| Hexavalent Chromium(mg/L) | <0.01 | <0.01 | 0.1 |
| Total Chromium(mg/L) | <0.05 | <0.05 | 2 |
| Copper(mg/L) | <0.03 | <0.03 | 3 |
| Zinc(mg/L) | <0.02 | 0.03 | 5 |
| Cadmium, mg/l | <0.0005 | <0.0005 | 2 |
| Nickel(mg/L) | <0.1 | <0.1 | 3 |
| Fluoride(mg/L) | 0.38 | 0.36 | 2 |
| Manganese(mg/L) | <0.02 | 0.07 | 2 |
| Iron(mg/L) | <0.06 | <0.06 | 3 |
| Dissolved Phosphate(mg/L) | 3.74 | 4.68 | 5 |

TABLES FOR SURFACE WATER QUALITY DATA

Table: 170

Surface Water Quality Data

Area: Jagannath

| Project / OCP | Jagannath OCP | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|---|-----------------------------|-------------------|--|
| Monitoring Station | Hensmul Village Well | | |
| Date of sampling | 25-07-2018 | 21-01-2019 | Acceptable |
| pH | 6.36 | 6.81 | 5 |
| Dissolved Oxygen(mg/L) | 7.2 | 6.7 | Agreeable |
| BOD (3 days 27°c)(mg/L) | 5.0 | 2.6 | Agreeable |
| Colour (Hazen unit) | 5 | 5 | 1 |
| Total dissolved solids (mg/L) | 396 | 386 | 6.5-8.5 |
| TSS(mg/L) | 5 | 88 | 200 |
| Total Hardness(mg/L) | 220 | 114 | 200 |
| Copper(mg/L) | <0.03 | 0.03 | 0.3 |
| Iron(mg/L) | 0.09 | <0.06 | 250 |
| Chlorides(mg/L) | 76 | 60 | 500 |
| Sulphate(mg/L) | 63 | 80.1 | 75 |
| Nitrate | -- | 33.65 | 50 |
| Fluoride(mg/L) | 0.29 | 1.17 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | 0.03 | 0.08 | 1.0 |
| Chromium(as Cr⁶⁺)(mg/L) | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | 0.01 |

Table: 171
Surface Water Quality Data
Area: Jagannath

| Project / OCP | Jagannath OCP | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|---|--------------------------|--|
| Monitoring Station | Dera Village Well | |
| Date of sampling | 25-07-2018 | Acceptable |
| pH | 6.36 | 5 |
| Dissolved Oxygen(mg/L) | 7.2 | Agreeable |
| BOD (3 days 27°C)(mg/L) | 5.0 | Agreeable |
| Colour (Hazen unit) | 5 | 1 |
| Total dissolved solids (mg/L) | 396 | 6.5-8.5 |
| TSS(mg/L) | 5 | 200 |
| Total Hardness(mg/L) | 220 | 200 |
| Copper(mg/L) | <0.03 | 0.3 |
| Iron(mg/L) | 0.09 | 250 |
| Chlorides(mg/L) | 76 | 500 |
| Sulphate(mg/L) | 63 | 75 |
| Nitrate | -- | 50 |
| Fluoride(mg/L) | 0.29 | 0.05 |
| Cadmium(mg/L) | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | 200 |
| Lead(mg/L) | <0.005 | 45 |
| Zinc(mg/L) | 0.03 | 1.0 |
| Chromium(as Cr⁶⁺)(mg/L) | <0.01 | 0.01 |
| Oil & Grease | <4.0 | 0.01 |

Table: 172
Surface Water Quality Data
Area: Bharatpur

| Project / OCP | Bharatpur OCP | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|--------------------------------------|--------------------------|------------|------------|------------|--|
| | Jambubahali Village Pond | | | | |
| Monitoring Station | 27-04-2018 | 25-07-2018 | 29-10-2018 | 21-01-2019 | Acceptable |
| Date of sampling | 27-04-2018 | 25-07-2018 | 29-10-2018 | 21-01-2019 | Acceptable |
| pH | 7.45 | 7.34 | 7.79 | 7.77 | 5 |
| Dissolved Oxygen(mg/L) | 5.4 | 6.4 | 6.7 | 6.6 | Agreeable |
| BOD (3 days 27°c)(mg/L) | 1.8 | 4.0 | 3 | 2.5 | Agreeable |
| Colour (Hazen unit) | 6 | 4 | 3 | 5 | 1 |
| Total dissolved solids (mg/L) | 230 | 208 | 250 | 266 | 6.5-8.5 |
| TSS(mg/L) | 7 | 25 | 40 | 42 | 200 |
| Total Hardness(mg/L) | 176 | 120 | 144 | 140 | 200 |
| Copper(mg/L) | <0.03 | 0.03 | 0.05 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.13 | 0.10 | <0.06 | 250 |
| Chlorides(mg/L) | 20 | 12 | 12 | 14 | 500 |
| Sulphate(mg/L) | 26 | 31 | 31.31 | 57.58 | 75 |
| Nitrate | -- | -- | <0.5 | <0.5 | 50 |
| Fluoride(mg/L) | -- | 0.67 | 0.43 | 0.23 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | <0.02 | 0.03 | <0.02 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 173
Surface Water Quality Data
Area: Lingraj

| Project / OCP | Lingraj OCP | | | | IS:2296-1982 |
|---|--|-------------------|-------------------|-------------------|---|
| Monitoring Station | Village Pond Near Deulbera Siding | | | | Tolerance for inland Surface water (Class C) |
| Date of sampling | 27-04-2018 | 26-07-2018 | 29-10-2018 | 21-01-2019 | Acceptable |
| pH | 7.35 | 7.41 | 7.34 | 8.03 | 5 |
| Dissolved Oxygen(mg/L) | 6.5 | 4.7 | 6.2 | 7.0 | Agreeable |
| BOD (3 days 27°c)(mg/L) | 3.8 | 3.0 | 4.5 | 2.8 | Agreeable |
| Colour (Hazen unit) | 5 | 3 | 5 | 9 | 1 |
| Total dissolved solids (mg/L) | 404 | 367 | 348 | 614 | 6.5-8.5 |
| TSS(mg/L) | 5 | 117 | 52 | 54 | 200 |
| Total Hardness(mg/L) | 244 | 136 | 160 | 264 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.05 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.21 | 0.09 | <0.06 | 250 |
| Chlorides(mg/L) | 40 | 18 | 26 | 26 | 500 |
| Sulphate(mg/L) | 115 | 69 | 72.28 | 259.28 | 75 |
| Nitrate | -- | -- | 2.06 | <0.5 | 50 |
| Fluoride(mg/L) | -- | 0.53 | 0.51 | 0.33 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | 0.02 | <0.02 | 0.04 | <0.02 | 1.0 |
| Chromium(as Cr⁶⁺)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | 4.6 | <4.0 | <4.0 | 0.01 |

Table: 174

**Surface Water Quality Data
Area: Kaniha**

| Project / OCP Monitoring Station | Kaniha OCP | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|--------------------------------------|---|------------|---|
| | Singada Jhor stream nearer to Village Bhagirathipur as u/s Water for Kaniha OCP | | |
| Date of sampling | 27-04-2018 | 29-10-2018 | Acceptable |
| pH | 7.45 | 8.03 | 5 |
| Dissolved Oxygen(mg/L) | 7.2 | 7.3 | Agreeable |
| BOD (3 days 27°C)(mg/L) | 3.2 | 4 | Agreeable |
| Colour (Hazen unit) | 8 | 4 | 1 |
| Total dissolved solids (mg/L) | 100 | 298 | 6.5-8.5 |
| TSS(mg/L) | 5 | 58 | 200 |
| Total Hardness(mg/L) | 36 | 168 | 200 |
| Copper(mg/L) | <0.03 | 0.03 | 0.3 |
| Iron(mg/L) | <0.06 | <0.06 | 250 |
| Chlorides(mg/L) | 22 | 18 | 500 |
| Sulphate(mg/L) | 5 | 30.18 | 75 |
| Nitrate | -- | <0.5 | 50 |
| Fluoride(mg/L) | 0.44 | 0.52 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | 0.005 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | 0.02 | 0.04 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | 0.01 |

Table: 175

**Surface Water Quality Data
Area: Kaniha**

| Project / OCP Monitoring Station | Kaniha OCP | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|---|---|------------|---|
| | Singada Jhor stream nearer to Village Khairnali as u/s Water for Kaniha OCP | | |
| Date of sampling | 26-07-2018 | 23-01-2019 | Acceptable |
| pH | 7.84 | 8.19 | 5 |
| Dissolved Oxygen(mg/L) | 6.8 | 7.2 | Agreeable |
| BOD (3 days 27°C(mg/L) | 2.6 | 2.1 | Agreeable |
| Colour (Hazen unit) | 4 | 5 | 1 |
| Total dissolved solids (mg/L) | 244 | 548 | 6.5-8.5 |
| TSS(mg/L) | 44 | 40 | 200 |
| Total Hardness(mg/L) | 128 | 248 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.3 |
| Iron(mg/L) | 0.11 | <0.06 | 250 |
| Chlorides(mg/L) | 16 | 24 | 500 |
| Sulphate(mg/L) | 27 | 223.88 | 75 |
| Nitrate | -- | <0.5 | 50 |
| Fluoride(mg/L) | 0.28 | 0.24 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | <0.02 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | 0.01 |

Table: 176

**Surface Water Quality Data
Area: Kaniha**

| Project / OCP | Kaniha OCP | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|---|---|------------|------------|------------|--|
| | Before Junction Point of Singadajhor & Brahmani River at Balangi Village as d/s for Kaniha OCP | | | | |
| Date of sampling | 27-04-2018 | 26-07-2018 | 29-10-2018 | 23-01-2019 | Acceptable |
| pH | 7.59 | 7.70 | 8.14 | 7.86 | 5 |
| Dissolved Oxygen(mg/L) | 6.7 | 7.3 | 7.1 | 7.0 | Agreeable |
| BOD (3 days 27°C(mg/L) | 3.6 | 2.8 | 4.5 | 2.6 | Agreeable |
| Colour (Hazen unit) | 6 | 5 | 2 | 10 | 1 |
| Total dissolved solids (mg/L) | 114 | 237 | 286 | 382 | 6.5-8.5 |
| TSS(mg/L) | 7 | 45 | 44 | 64 | 200 |
| Total Hardness(mg/L) | 84 | 132 | 164 | 164 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.03 | 0.04 | 0.3 |
| Iron(mg/L) | <0.06 | 0.10 | <0.06 | <0.06 | 250 |
| Chlorides(mg/L) | 16 | 18 | 18 | 26 | 500 |
| Sulphate(mg/L) | 7 | 29 | 31.59 | 114.36 | 75 |
| Nitrate | -- | -- | <0.5 | <0.5 | 50 |
| Fluoride(mg/L) | 0.26 | 0.49 | 0.39 | 1.49 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | 0.006 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | <0.02 | 0.03 | <0.02 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 177
**Surface Water Quality Data
 Area: Kaniha**

| Project / OCP | Kaniha OCP | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|--------------------------------------|---|------------|------------|------------|--|
| | Tikra Nadi near Kaniha village as u/s water for Kaniha OCP | | | | |
| Date of sampling | 27-04-2018 | 26-07-2018 | 29-10-2018 | 23-01-2019 | Acceptable |
| pH | 7.71 | 7.67 | 7.94 | 8.25 | 5 |
| Dissolved Oxygen(mg/L) | 6.7 | 4.3 | 7.1 | 7.2 | Agreeable |
| BOD (3 days 27°C)(mg/L) | 4.0 | 3.4 | 3 | 2.2 | Agreeable |
| Colour (Hazen unit) | 4 | 3 | 2 | 5 | 1 |
| Total dissolved solids (mg/L) | 436 | 263 | 186 | 528 | 6.5-8.5 |
| TSS(mg/L) | 7 | 129 | 38 | 42 | 200 |
| Total Hardness(mg/L) | 276 | 72 | 92 | 248 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.04 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.77 | 0.10 | <0.06 | 250 |
| Chlorides(mg/L) | 24 | 12 | 14 | 26 | 500 |
| Sulphate(mg/L) | 128 | 39 | 13.31 | 201.38 | 75 |
| Nitrate | -- | -- | <0.5 | <0.5 | 50 |
| Fluoride(mg/L) | 1.34 | 0.33 | 0.28 | 0.44 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | 0.003 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | 0.08 | <0.002 | 0.03 | <0.02 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 178
**Surface Water Quality Data
 Area: Kaniha**

| Project / OCP | Kaniha OCP | | | | IS:2296-1982 |
|---|--|-------------------|-------------------|-------------------|---|
| Monitoring Station | Tikra Nadi Near Shagarhi Pala Village as d/s Water for Kaniha OCP | | | | Tolerance for inland Surface water (Class C) |
| Date of sampling | 27-04-2018 | 26-07-2018 | 29-10-2018 | 23-01-2019 | Acceptable |
| pH | 7.65 | 7.29 | 8.02 | 8.23 | 5 |
| Dissolved Oxygen(mg/L) | 6.9 | 6.2 | 6.9 | 7.2 | Agreeable |
| BOD (3 days 27°C)(mg/L) | 3 | 2.8 | 4.5 | 2.4 | Agreeable |
| Colour (Hazen unit) | 7 | 4 | 4 | 6 | 1 |
| Total dissolved solids (mg/L) | 284 | 270 | 230 | 546 | 6.5-8.5 |
| TSS(mg/L) | 5 | 111 | 42 | 46 | 200 |
| Total Hardness(mg/L) | 184 | 72 | 92 | 252 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.04 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.83 | 0.09 | <0.06 | 250 |
| Chlorides(mg/L) | 28 | 16 | 12 | 22 | 500 |
| Sulphate(mg/L) | 65 | 34 | 13.12 | 214.88 | 75 |
| Nitrate | -- | -- | <0.5 | <0.5 | 50 |
| Fluoride(mg/L) | 1.36 | 0.37 | 0.26 | 0.42 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | 0.003 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | 0.02 | 0.04 | <0.02 | 1.0 |
| Chromium(as Cr⁶⁺)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 179
Surface Water Quality Data
Area: Hingula

| Project / OCP | Hingula OCP | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|-------------------------------------|-------------------------------|------------|------------|------------|--|
| | Singadhajhor Stream Near HOCP | | | | |
| Monitoring Station | 27-04-2018 | 25-07-2018 | 29-10-2018 | 22-01-2019 | Acceptable |
| Date of sampling | 27-04-2018 | 25-07-2018 | 29-10-2018 | 22-01-2019 | Acceptable |
| pH | 7.78 | 7.67 | 8.00 | 7.55 | 5 |
| Dissolved Oxygen(mg/L) | 7.1 | 6.5 | 7.2 | 6.1 | Agreeable |
| BOD (3 days 27°c(mg/L) | 1.6 | 3.6 | 2 | 2.8 | Agreeable |
| Colour (Hazen unit) | 6 | 4 | 3 | 25 | 1 |
| Total dissolved solids (mg/L) | 278 | 289 | 368 | 488 | 6.5-8.5 |
| TSS(mg/L) | 10 | 14 | 36 | 66 | 200 |
| Total Hardness(mg/L) | 204 | 164 | 208 | 228 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.05 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.10 | 0.07 | <0.06 | 250 |
| Chlorides(mg/L) | 24 | 18 | 20 | 42 | 500 |
| Sulphate(mg/L) | 39 | 80 | 78.37 | 128.51 | 75 |
| Nitrate | -- | -- | <0.5 | 9.47 | 50 |
| Fluoride(mg/L) | 0.61 | 0.61 | 0.35 | 0.13 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | 0.03 | 0.05 | 0.29 | 1.0 |
| Chromium(as Cr ⁶)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 180
Surface Water Quality Data
Area: Hingula

| Project / OCP | Hingula OCP | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|--------------------------------------|--------------------------------|------------|------------|------------|--|
| | Pond Water of Kankarei Village | | | | |
| Date of sampling | 27-04-2018 | 25-07-2018 | 29-10-2018 | 22-01-2019 | Acceptable |
| pH | 7.82 | 7.53 | 6.76 | 7.64 | 5 |
| Dissolved Oxygen(mg/L) | 6.7 | 5.1 | 6.3 | 6.9 | Agreeable |
| BOD (3 days 27°C)(mg/L) | 2 | 3.0 | 4.5 | 2.7 | Agreeable |
| Colour (Hazen unit) | 4 | 5 | 5 | 7 | 1 |
| Total dissolved solids (mg/L) | 250 | 183 | 118 | 220 | 6.5-8.5 |
| TSS(mg/L) | 15 | 25 | 48 | 62 | 200 |
| Total Hardness(mg/L) | 116 | 68 | 12 | 88 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.05 | 0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.15 | 0.12 | <0.06 | 250 |
| Chlorides(mg/L) | 46 | 44 | 12 | 8 | 500 |
| Sulphate(mg/L) | 7 | 16 | 4.21 | 47.98 | 75 |
| Nitrate | -- | -- | <0.5 | <0.5 | 50 |
| Fluoride(mg/L) | 0.82 | 0.64 | 0.36 | 0.40 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | 0.07 | <0.02 | 0.04 | <0.02 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 181
Surface Water Quality Data
Area: Hingula

| Project / OCP | Balaram OCP | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|--------------------------------------|--|------------|------------|------------|--|
| | Derjenga reservoir as a part of Impact Study | | | | |
| Date of sampling | 27-04-2018 | 25-07-2018 | 26-10-2018 | 22-01-2019 | Acceptable |
| pH | 7.53 | 7.81 | 7.78 | 7.69 | 5 |
| Dissolved Oxygen(mg/L) | 6.5 | 5.6 | 6.6 | 6.2 | Agreeable |
| BOD (3 days 27°c)(mg/L) | 2.0 | 3.2 | 4.4 | 1.8 | Agreeable |
| Colour (Hazen unit) | 7 | 4 | 3 | 18 | 1 |
| Total dissolved solids (mg/L) | 154 | 162 | 210 | 296 | 6.5-8.5 |
| TSS(mg/L) | 7 | 14 | 26 | 54 | 200 |
| Total Hardness(mg/L) | 112 | 104 | 140 | 152 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.05 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.11 | <0.06 | <0.06 | 250 |
| Chlorides(mg/L) | 24 | 18 | 16 | 48 | 500 |
| Sulphate(mg/L) | 11 | 18 | 8.06 | 30.40 | 75 |
| Nitrate | -- | -- | <0.5 | <0.5 | 50 |
| Fluoride(mg/L) | 0.82 | 0.61 | 0.55 | 1.02 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | <0.02 | 0.03 | <0.02 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 182
Surface Water Quality Data
Area: Hingula

| Project / OCP | Balaram OCP | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|-------------------------------------|-------------------------------|------------|------------|------------|--|
| | Pond water of Ambapal village | | | | |
| Date of sampling | 27-04-2018 | 25-07-2018 | 29-10-2018 | 22-01-2019 | Acceptable |
| pH | 7.37 | 6.75 | 6.53 | 7.59 | 5 |
| Dissolved Oxygen(mg/L) | 6.5 | 5.3 | 4.8 | 5.8 | Agreeable |
| BOD (3 days 27°c)(mg/L) | 2.5 | 3.6 | 3.5 | 2.7 | Agreeable |
| Colour (Hazen unit) | 5 | 3 | 9 | 74 | 1 |
| Total dissolved solids (mg/L) | 82 | 136 | 130 | 566 | 6.5-8.5 |
| TSS(mg/L) | 9 | 14 | 48 | 78 | 200 |
| Total Hardness(mg/L) | 12 | 36 | 32 | 200 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | <0.03 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.25 | 0.13 | 0.32 | 250 |
| Chlorides(mg/L) | 28 | 10 | 10 | 142 | 500 |
| Sulphate(mg/L) | 7 | 13 | 3.0 | 128.35 | 75 |
| Nitrate | -- | -- | <0.5 | <0.5 | 50 |
| Fluoride(mg/L) | 0.77 | 0.59 | 0.36 | 0.30 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | 0.04 | 0.02 | 0.28 | 0.11 | 1.0 |
| Chromium(as Cr ⁶)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 183
**Surface Water Quality Data
Area: Talcher**

| Project / OCP | Talcher UG | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|-------------------------------------|----------------------------|------------|------------|------------|--|
| | Pond Water of Dera Village | | | | |
| Date of sampling | 27-04-2018 | 27-07-2018 | 30-10-2018 | 21-01-2019 | Acceptable |
| pH | 7.28 | 7.30 | 6.28 | 7.38 | 5 |
| Dissolved Oxygen(mg/L) | 6.7 | 6.6 | 7.0 | 6.0 | Agreeable |
| BOD (3 days 27°c(mg/L) | 2.0 | 4.2 | 4.1 | 2.3 | Agreeable |
| Colour (Hazen unit) | 8 | 2 | 2 | 31 | 1 |
| Total dissolved solids (mg/L) | 250 | 204 | 250 | 264 | 6.5-8.5 |
| TSS(mg/L) | 5 | 19 | 16 | 74 | 200 |
| Total Hardness(mg/L) | 160 | 108 | 60 | 88 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.03 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.12 | <0.06 | 0.09 | 250 |
| Chlorides(mg/L) | 34 | 32 | 28 | 28 | 500 |
| Sulphate(mg/L) | 50 | 38 | 22.96 | 60.32 | 75 |
| Nitrate | -- | -- | 38.27 | <0.5 | 50 |
| Fluoride(mg/L) | 0.59 | 0.56 | 0.41 | 1.23 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | <0.02 | 0.10 | 0.02 | 1.0 |
| Chromium(as Cr ⁶)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

Table: 184
**Surface Water Quality Data
 Area: Talcher**

| Project / OCP | Nandira | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|---|---|-------------------|--|
| Monitoring Station | Nandira Jhor Near Karnapur Village | | |
| Date of sampling | 28-04-2018 | 30-10-2018 | Acceptable |
| pH | 7.9 | 8.28 | 5 |
| Dissolved Oxygen(mg/L) | 6.9 | 7.3 | Agreeable |
| BOD (3 days 27°c(mg/L)) | 4.2 | 5.5 | Agreeable |
| Colour (Hazen unit) | 6 | 3 | 1 |
| Total dissolved solids (mg/L) | 338 | 336 | 6.5-8.5 |
| TSS(mg/L) | 6 | 34 | 200 |
| Total Hardness(mg/L) | 192 | 168 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | <0.06 | 250 |
| Chlorides(mg/L) | 68 | 24 | 500 |
| Sulphate(mg/L) | 54 | 28.31 | 75 |
| Nitrate | | <0.5 | 50 |
| Fluoride(mg/L) | 1.36 | 0.34 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | 0.04 | 0.07 | 1.0 |
| Chromium(as Cr⁶⁺)(mg/L) | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | 0.01 |

Table: 185
Surface Water Quality Data
Area: Talcher

| Project / OCP | Nandira | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|---|--|--|
| Monitoring Station | Nandira Jhor Near Tentolei Village Mine | |
| Date of sampling | 30-10-2018 | Acceptable |
| pH | 8.26 | 5 |
| Dissolved Oxygen(mg/L) | 7.1 | Agreeable |
| BOD (3 days 27°c)(mg/L) | 4.5 | Agreeable |
| Colour (Hazen unit) | 2 | 1 |
| Total dissolved solids (mg/L) | 320 | 6.5-8.5 |
| TSS(mg/L) | 30 | 200 |
| Total Hardness(mg/L) | 208 | 200 |
| Copper(mg/L) | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 250 |
| Chlorides(mg/L) | 26 | 500 |
| Sulphate(mg/L) | 29.71 | 75 |
| Nitrate | <0.5 | 50 |
| Fluoride(mg/L) | 0.28 | 0.05 |
| Cadmium(mg/L) | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | 200 |
| Lead(mg/L) | <0.005 | 45 |
| Zinc(mg/L) | 0.04 | 1.0 |
| Chromium(as Cr⁶⁺)(mg/L) | <0.01 | 0.01 |
| Oil & Grease | <4.0 | 0.01 |

Table: 186
**Surface Water Quality Data
 Area: Talcher**

| Project / OCP | Nandira | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|--------------------------------------|--------------------------------------|------------|---|
| | Nandira Jhor Near Sakasingha Village | | |
| Date of sampling | 26-07-2018 | 21-01-2019 | Acceptable |
| pH | 7.82 | 8.02 | 5 |
| Dissolved Oxygen(mg/L) | 6.1 | 6.6 | Agreeable |
| BOD (3 days 27°C)(mg/L) | 2.4 | 2.0 | Agreeable |
| Colour (Hazen unit) | 5 | 8 | 1 |
| Total dissolved solids (mg/L) | 316 | 418 | 6.5-8.5 |
| TSS(mg/L) | 21 | 48 | 200 |
| Total Hardness(mg/L) | 188 | 208 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.3 |
| Iron(mg/L) | 0.14 | <0.06 | 250 |
| Chlorides(mg/L) | 34 | 50 | 500 |
| Sulphate(mg/L) | 46 | 89.11 | 75 |
| Nitrate | -- | 9.47 | 50 |
| Fluoride(mg/L) | 0.44 | 1.39 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | <0.02 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | 0.01 |

Table: 187

**Surface Water Quality Data
Area: Talcher**

| Project / OCP | Nandira | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|--------------------------------------|---------------------------------------|------------|---|
| | Nandira Jhor Near Pengua village Mine | | |
| Date of sampling | 26-07-2018 | 21-01-2019 | Acceptable |
| pH | 7.72 | 8.11 | 5 |
| Dissolved Oxygen(mg/L) | 4.7 | 6.9 | Agreeable |
| BOD (3 days 27°c)(mg/L) | 3.0 | 2.2 | Agreeable |
| Colour (Hazen unit) | 4 | 8 | 1 |
| Total dissolved solids (mg/L) | 298 | 428 | 6.5-8.5 |
| TSS(mg/L) | 21 | 56 | 200 |
| Total Hardness(mg/L) | 188 | 204 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.3 |
| Iron(mg/L) | 0.14 | <0.06 | 250 |
| Chlorides(mg/L) | 32 | 50 | 500 |
| Sulphate(mg/L) | 50 | 89.43 | 75 |
| Nitrate | -- | 9.42 | 50 |
| Fluoride(mg/L) | 0.69 | 1.37 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.1 |
| Arsenic(mg/L) | 0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.002 | <0.02 | 1.0 |
| Chromium(as Cr ⁶⁺)(mg/L) | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | 0.01 |

Table: 188
**Surface Water Quality Data
Area: Talcher**

| Project / OCP | Deulbera | | | | IS:2296-1982 Tolerance for inland Surface water (Class C) |
|---|--|-------------------|-------------------|-------------------|--|
| Monitoring Station | Pond Water of Gopinathpur Village | | | | |
| Date of sampling | 27-04-2018 | 26-07-2018 | 30-10-2018 | 21-01-2019 | Acceptable |
| pH | 7.42 | 7.35 | 7.25 | 7.04 | 5 |
| Dissolved Oxygen(mg/L) | 5.9 | 6.4 | 7.2 | 4.3 | Agreeable |
| BOD (3 days 27°C)(mg/L) | 3.2 | 2.8 | 5.5 | 2.1 | Agreeable |
| Colour (Hazen unit) | 4 | 3 | 8 | 160 | 1 |
| Total dissolved solids (mg/L) | 282 | 197 | 144 | 270 | 6.5-8.5 |
| TSS(mg/L) | 4 | 8 | 54 | 118 | 200 |
| Total Hardness(mg/L) | 200 | 108 | 40 | 80 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | <0.03 | <0.03 | 0.3 |
| Iron(mg/L) | <0.06 | 0.09 | 0.09 | 0.18 | 250 |
| Chlorides(mg/L) | 38 | 28 | 14 | 32 | 500 |
| Sulphate(mg/L) | 33 | 39 | 8.25 | 31.04 | 75 |
| Nitrate | -- | -- | <0.5 | <0.5 | 50 |
| Fluoride(mg/L) | 0.81 | 0.59 | 0.45 | 0.75 | 0.05 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.011 | <0.0005 | 0.1 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | <0.002 | 200 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 45 |
| Zinc(mg/L) | <0.02 | 0.02 | 0.05 | <0.02 | 1.0 |
| Chromium(as Cr⁶⁺)(mg/L) | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 |
| Oil & Grease | <4.0 | <4.0 | <4.0 | <4.0 | 0.01 |

TABLES FOR WELL WATER LEVEL DATA

Table: 189
Well Water Level
Project: Ananta OCP
Monitoring Station: Dera Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|-----------|------------|-------------------------|------------------|----------------------|
| Jagannath | Ananta OCP | Dera Village Well Water | 09-May-18 | 4.59 |
| Jagannath | Ananta OCP | Dera Village Well Water | 27-Aug-18 | 3.10 |
| Jagannath | Ananta OCP | Dera Village Well Water | 28-Nov-18 | 2.88 |
| Jagannath | Ananta OCP | Dera Village Well Water | 29-Jan-19 | 2.67 |

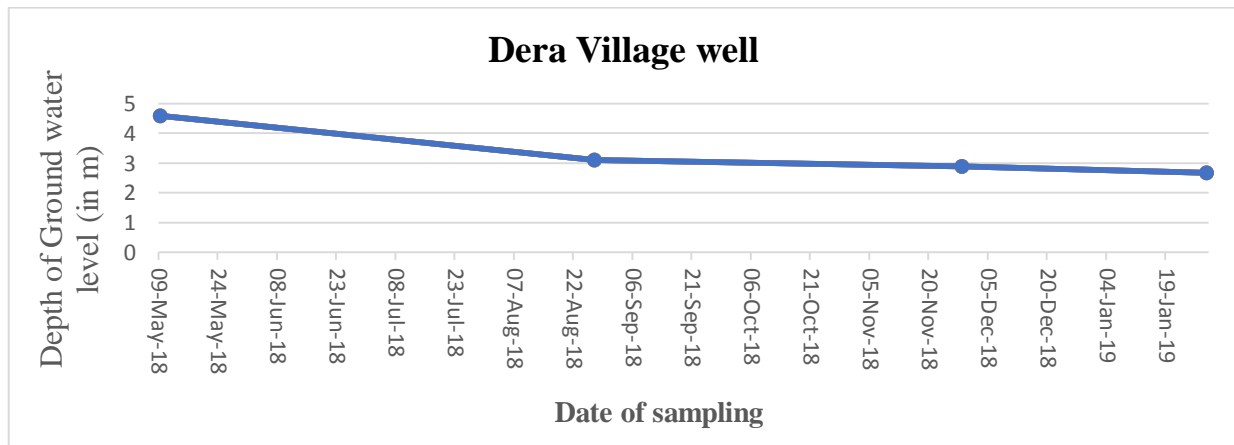


Table: 190
Well Water Level
Project: Ananta OCP
Monitoring Station: Hensmul Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|-----------|------------|----------------------------|------------------|----------------------|
| Jagannath | Ananta OCP | Hensmul Village Well Water | 09-May-18 | 3.63 |
| Jagannath | Ananta OCP | Hensmul Village Well Water | 27-Aug-18 | 2.03 |
| Jagannath | Ananta OCP | Hensmul Village Well Water | 28-Nov-18 | 3.72 |
| Jagannath | Ananta OCP | Hensmul Village Well Water | 29-Jan-19 | 3.06 |

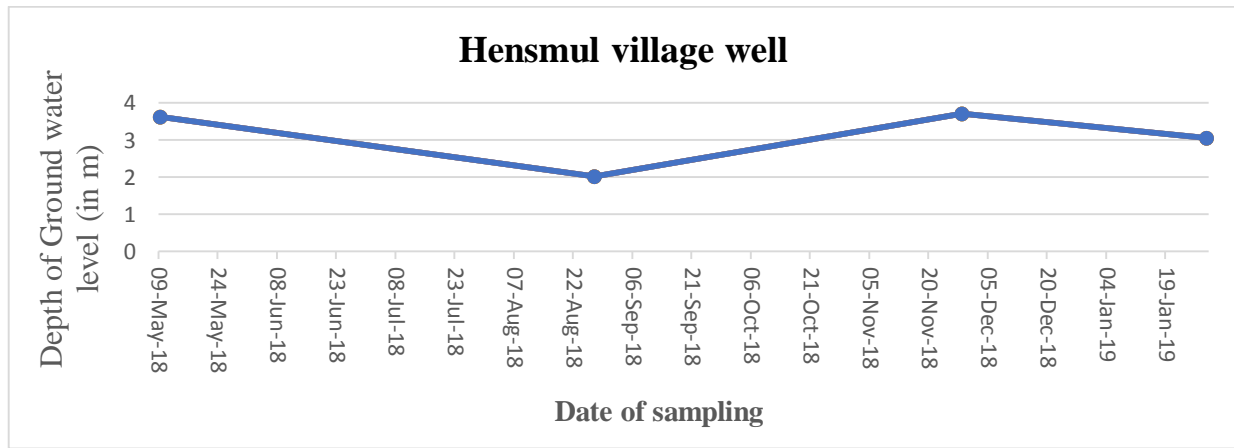


Table: 191
Well Water Level
Project: Hingula OCP
Monitoring Station: Gopal Prasad Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|---------|-------------|---------------------------|------------------|----------------------|
| Hingula | Hingula OCP | Gopal Prasad Village Well | 04-May-18 | 6.63 |
| Hingula | Hingula OCP | Gopal Prasad Village Well | 28-Aug-18 | 3.15 |
| Hingula | Hingula OCP | Gopal Prasad Village Well | 28-Nov-18 | 3.48 |
| Hingula | Hingula OCP | Gopal Prasad Village Well | 29-Jan-19 | 4.62 |

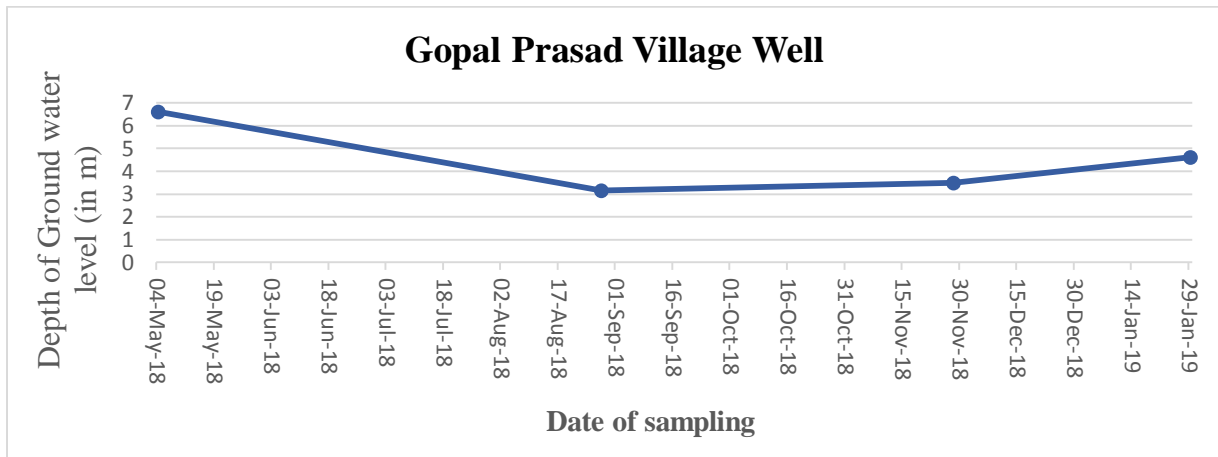


Table: 192
Well Water Level
Project: Hingula OCP
Monitoring Station: Kusumpal Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|---------|-------------|-----------------------|------------------|----------------------|
| Hingula | Hingula OCP | Kusumpal Village Well | 04-May-18 | 5.46 |
| Hingula | Hingula OCP | Kusumpal Village Well | 28-Aug-18 | 3.16 |
| Hingula | Hingula OCP | Kusumpal Village Well | 28-Nov-18 | 4.56 |
| Hingula | Hingula OCP | Kusumpal Village Well | 29-Jan-19 | 4.26 |

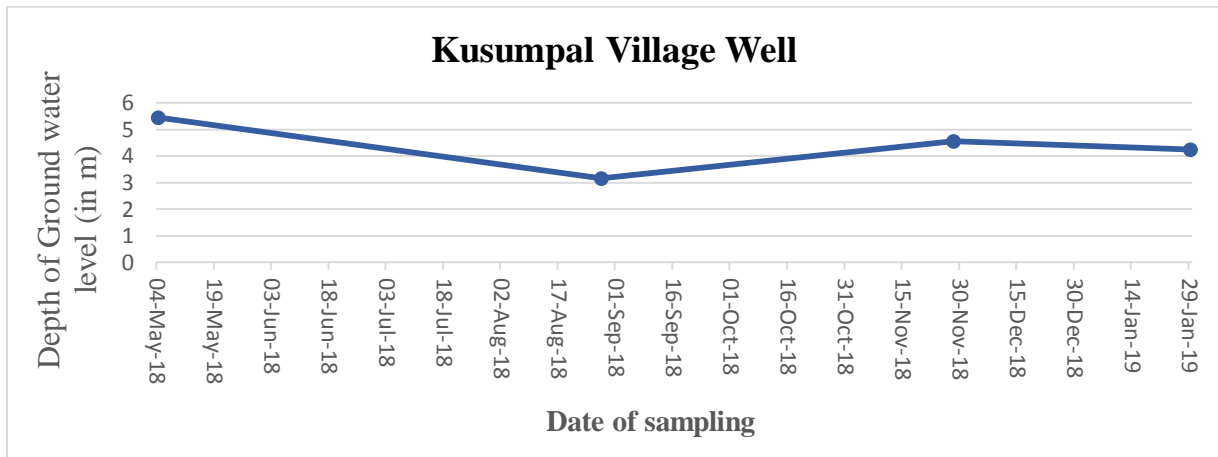


Table: 193
Well Water Level
Project: Balaram OCP
Monitoring Station: Danara Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|---------|-------------|---------------------|------------------|----------------------|
| Hingula | Balaram OCP | Danara Village Well | 04-May-18 | 4.89 |
| Hingula | Balaram OCP | Danara Village Well | 28-Aug-18 | 4.00 |
| Hingula | Balaram OCP | Danara Village Well | 28-Nov-18 | 6.09 |
| Hingula | Balaram OCP | Danara Village Well | 29-Jan-19 | 5.22 |

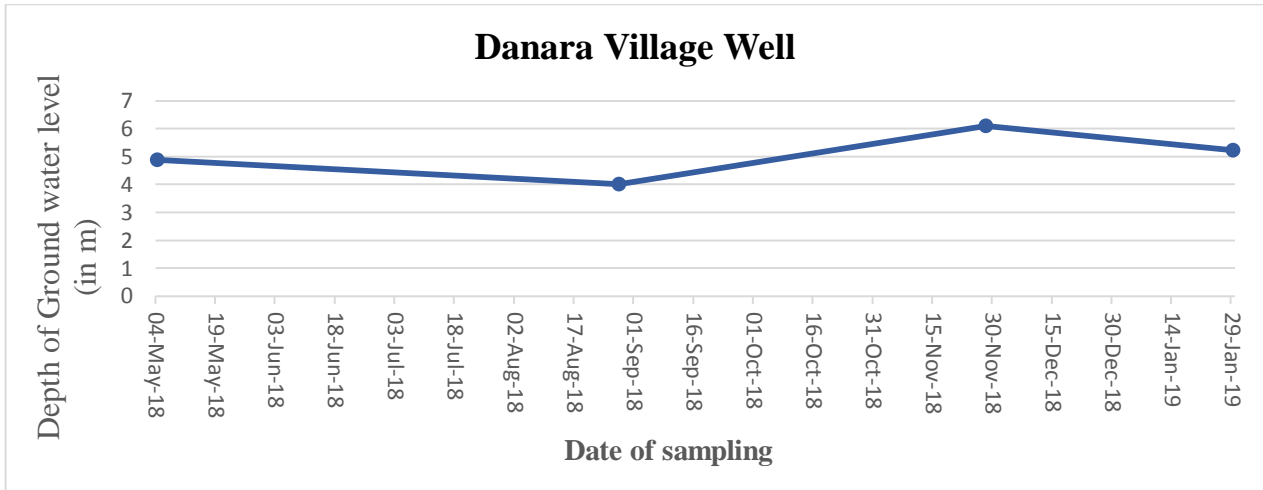


Table: 194
Well Water Level
Project: Balaram OCP
Monitoring Station: Nakeipasi Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|---------|-------------|------------------------|------------------|----------------------|
| Hingula | Balaram OCP | Nakeipasi Village Well | 04-May-18 | 5.16 |
| Hingula | Balaram OCP | Nakeipasi Village Well | 28-Aug-18 | 3.15 |
| Hingula | Balaram OCP | Nakeipasi Village Well | 28-Nov-18 | 3.88 |
| Hingula | Balaram OCP | Nakeipasi Village Well | 29-Jan-19 | 4.34 |

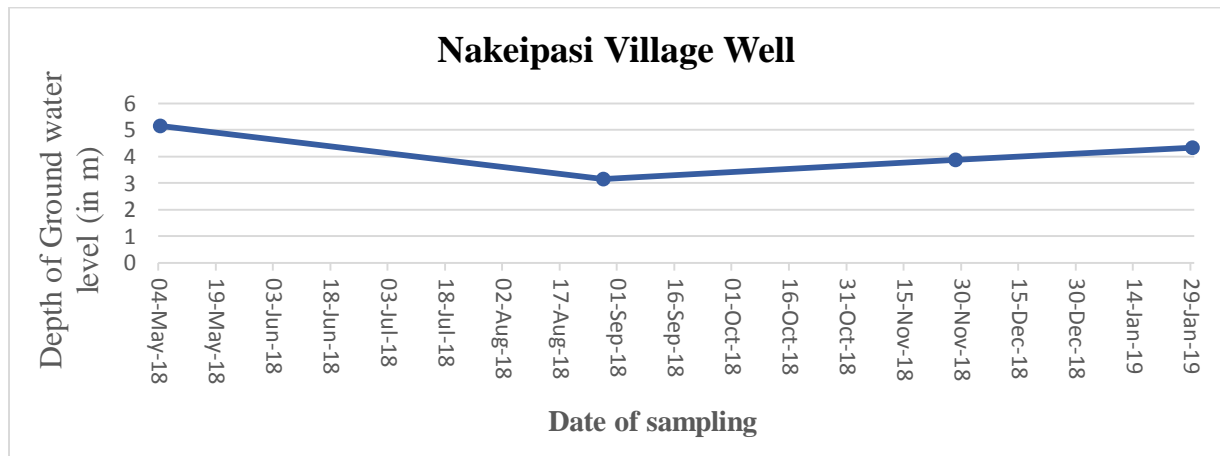


Table: 195
Well Water Level
Project: Lingaraj OCP
Monitoring Station: Balunga khamar Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|----------|--------------|-----------------------------|------------------|----------------------|
| Lingaraj | Lingaraj OCP | Balunga khamar Village Well | 10-May-18 | 5.04 |
| Lingaraj | Lingaraj OCP | Balunga khamar Village Well | 28-Aug-18 | 4.05 |
| Lingaraj | Lingaraj OCP | Balunga khamar Village Well | 28-Nov-18 | 4.89 |
| Lingaraj | Lingaraj OCP | Balunga khamar Village Well | 30-Jan-19 | 4.59 |

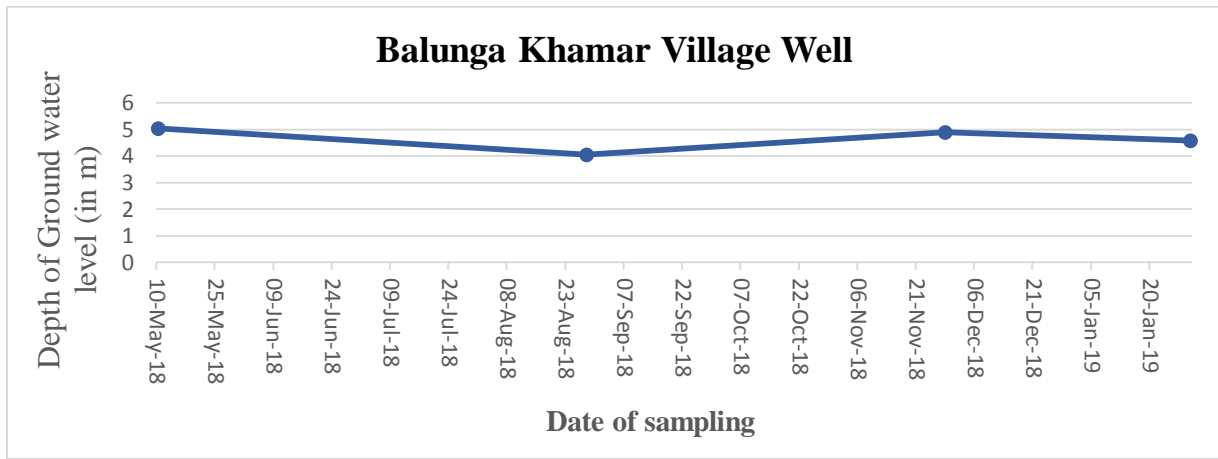


Table: 196
Well Water Level
Project: Talcher Colliery
Monitoring Station: Naraharipur Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|---------|------------------|--------------------------|------------------|----------------------|
| Talcher | Talcher Colliery | Naraharipur Village Well | 09-May-18 | 5.22 |
| Talcher | Talcher Colliery | Naraharipur Village Well | 28-Aug-18 | 4.18 |
| Talcher | Talcher Colliery | Naraharipur Village Well | 28-Nov-18 | 4.98 |
| Talcher | Talcher Colliery | Naraharipur Village Well | 30-Jan-19 | 4.71 |

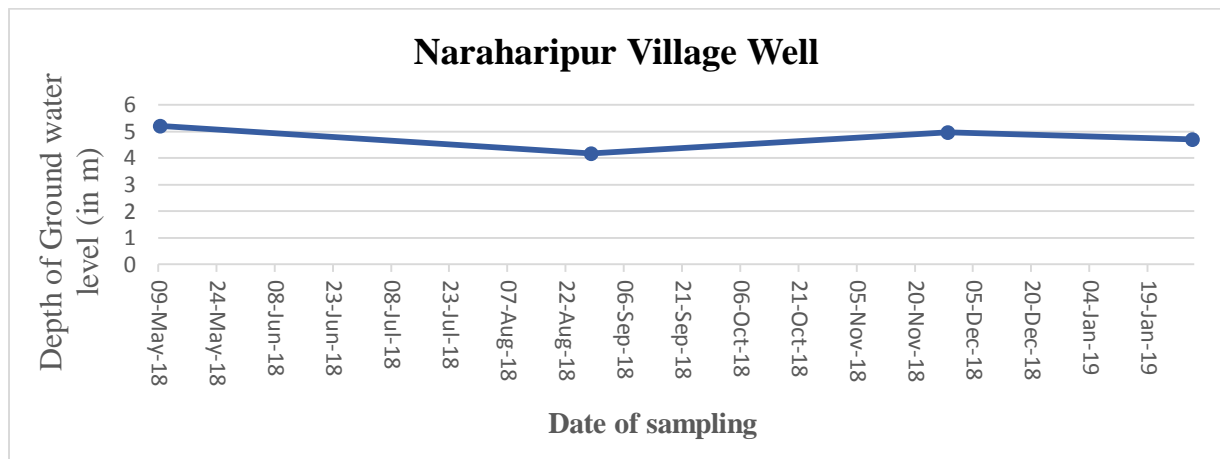


Table: 197
Well Water Level
Project: Lingaraj OCP
Monitoring Station: Deulbera Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|----------|--------------|-----------------------|------------------|----------------------|
| Lingaraj | Lingaraj OCP | Deulbera Village Well | 10-May-18 | 3.73 |
| Lingaraj | Lingaraj OCP | Deulbera Village Well | 28-Aug-18 | 3.05 |
| Lingaraj | Lingaraj OCP | Deulbera Village Well | 28-Nov-18 | 3.81 |
| Lingaraj | Lingaraj OCP | Deulbera Village Well | 30-Jan-19 | 2.67 |

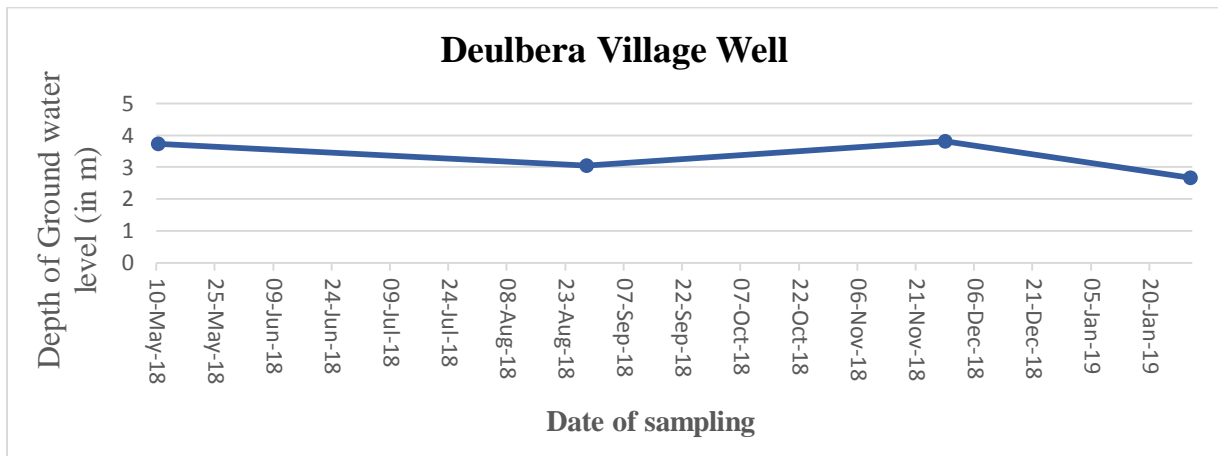


Table: 198
Well Water Level
Project: Lingraj OCP
Monitoring Station: Natedi village well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|---------|------------------|---------------------|------------------|----------------------|
| Talcher | Nandira Colliery | Natedi village well | 09-May-18 | 4.56 |
| Talcher | Nandira Colliery | Natedi village well | 28-Aug-18 | 3.09 |
| Talcher | Nandira Colliery | Natedi village well | 28-Nov-18 | 4.65 |
| Talcher | Nandira Colliery | Natedi village well | 30-Jan-19 | 4.69 |

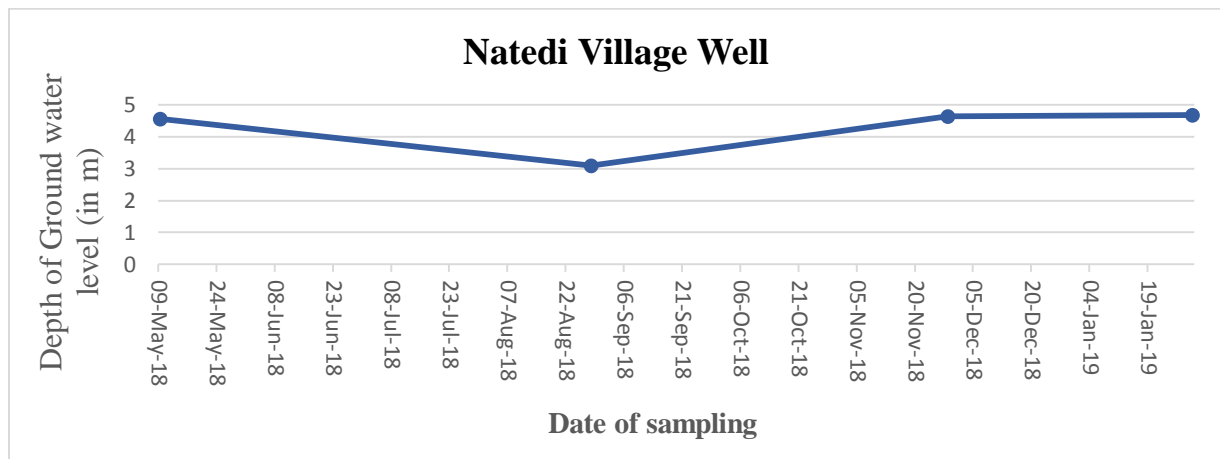


Table: 199
Well Water Level
Project: Lingraj OCP
Monitoring Station: Talabera Village Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|----------|--------------|-----------------------|------------------|----------------------|
| Lingaraj | Lingaraj OCP | Talabera Village Well | 10-May-18 | 4.29 |
| Lingaraj | Lingaraj OCP | Talabera Village Well | 28-Aug-18 | 4.15 |
| Lingaraj | Lingaraj OCP | Talabera Village Well | 28-Nov-18 | 5.22 |
| Lingaraj | Lingaraj OCP | Talabera Village Well | 30-Jan-19 | 5.55 |

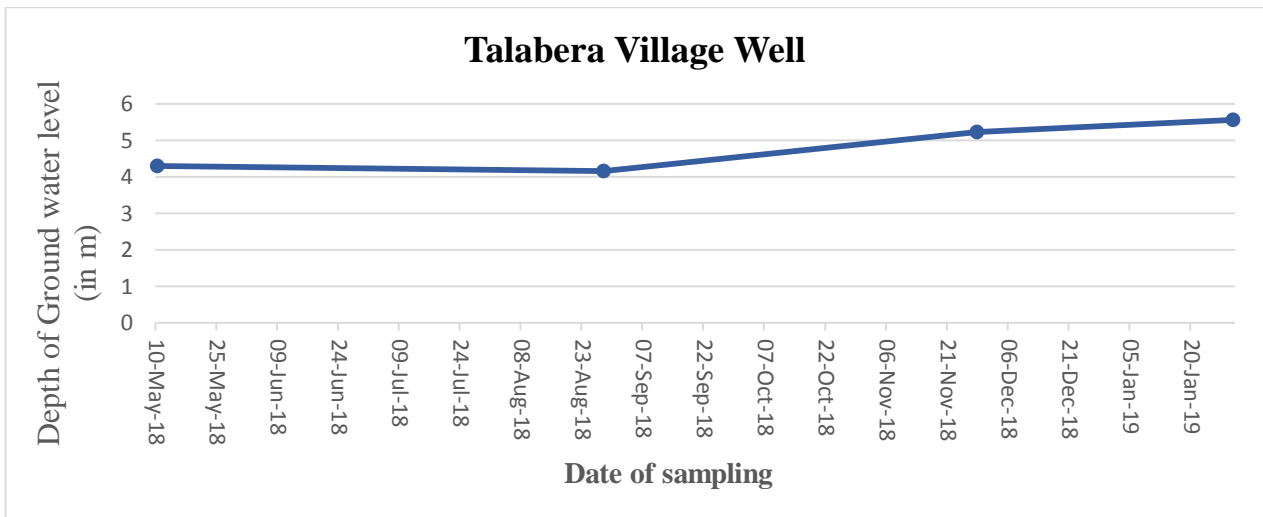


Table: 200
Well Water Level
Project: Bharatpur OCP
Monitoring Station: Badasinghada Village Open Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|-----------|---------------|--------------------------------|------------------|----------------------|
| Bharatpur | Bharatpur OCP | Badasinghada Village Open Well | 10-May-18 | 3.36 |
| Bharatpur | Bharatpur OCP | Badasinghada Village Open Well | 27-Aug-18 | 2.25 |
| Bharatpur | Bharatpur OCP | Badasinghada Village Open Well | 27-Nov-18 | 3.78 |
| Bharatpur | Bharatpur OCP | Badasinghada Village Open Well | 29-Jan-19 | 4.29 |

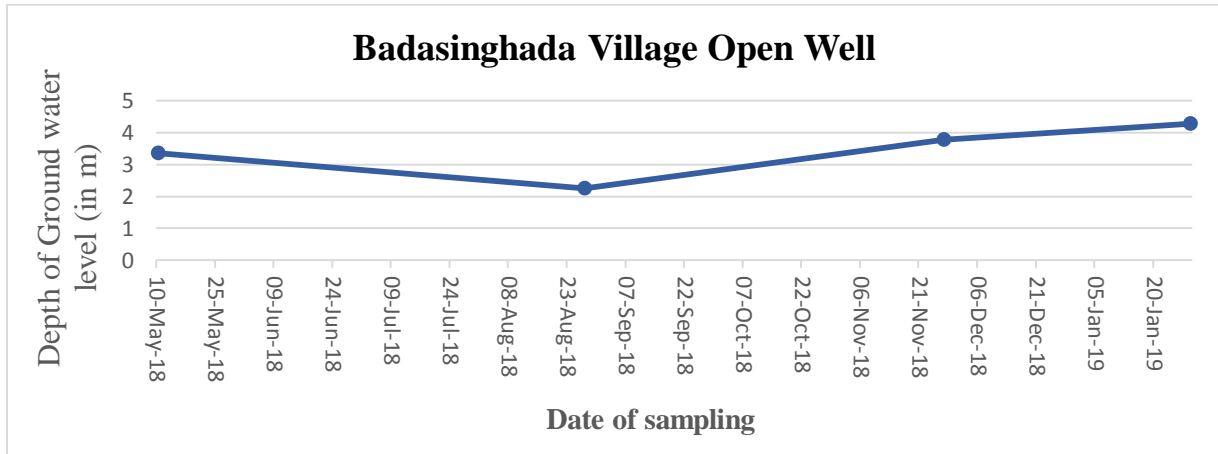


Table: 201
Well Water Level
Project: Jagannath OCP
Monitoring Station: Rakas Village Open Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|-----------|---------------|---------------------|------------------|----------------------|
| Jagannath | Jagannath OCP | Rakas village well | 09-May-18 | 5.46 |
| Jagannath | Jagannath OCP | Rakas village well | 27-Aug-18 | 4.15 |
| Jagannath | Jagannath OCP | Rakas village well | 28-Nov-18 | 4.01 |
| Jagannath | Jagannath OCP | Rakas village well | 29-Jan-19 | 4.81 |

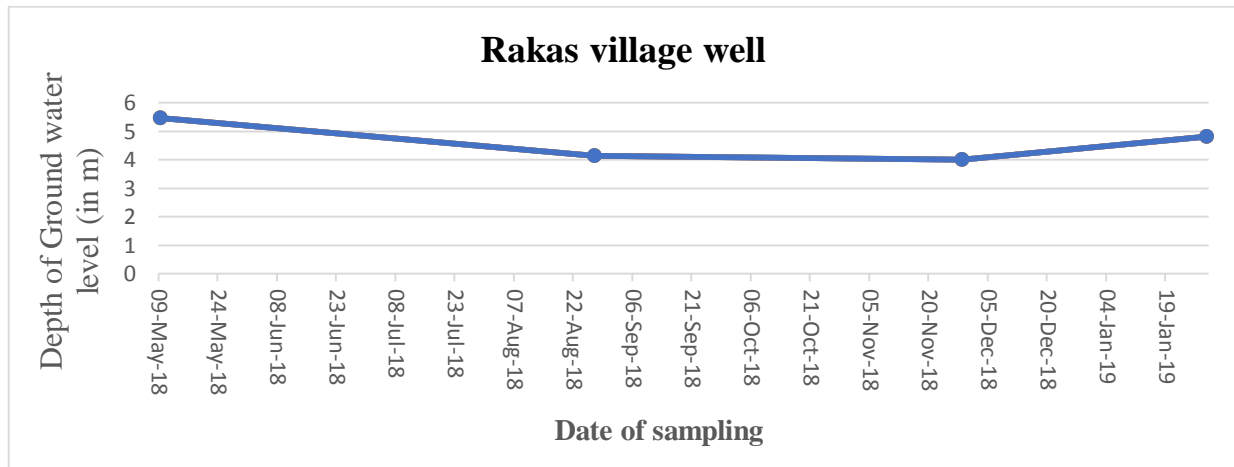
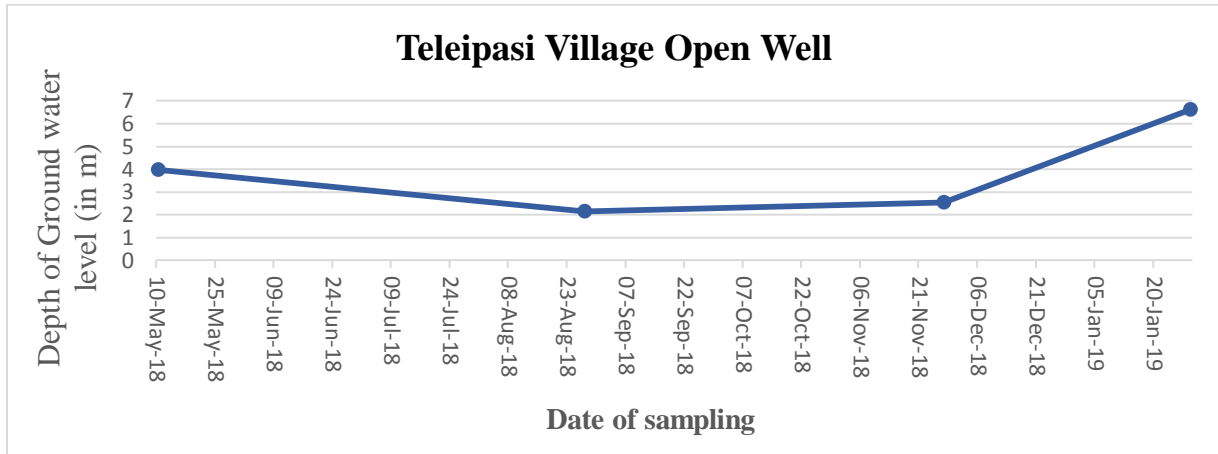


Table: 202
Well Water Level
Project: Bharatpur OCP
Monitoring Station: Teleipasi Village Open Well

| Area | Project | Name of the Station | Date of sampling | Water level bgl in m |
|-----------|---------------|-----------------------------|------------------|----------------------|
| Bharatpur | Bharatpur OCP | Teleipasi Village Open Well | 10-May-18 | 3.96 |
| Bharatpur | Bharatpur OCP | Teleipasi Village Open Well | 27-Aug-18 | 2.15 |
| Bharatpur | Bharatpur OCP | Teleipasi Village Open Well | 27-Nov-18 | 2.55 |
| Bharatpur | Bharatpur OCP | Teleipasi Village Open Well | 29-Jan-19 | 6.63 |



TABLES FOR DRINKING WATER QUALITY DATA

Table: 203
Area: Jagannath
Project: Jagannath OCP

| Project / OCP | Jagannath OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-----------------------------------|----------------------------|------------|------------|--|----------------------|
| | Jagannath Colony tap water | | | | |
| Monitoring Station | | | | | |
| Dt. of sampling | 15-04-2018 | 11-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour(Hazen) | 3 | 2 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 5 | 8 | -- | 1 | 5 |
| pH | 7.63 | 7.30 | 7.49 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 8 | 12 | 8 | 200 | 600 |
| Total Hardness(mg/L) | 208 | 160 | 180 | 200 | 600 |
| Iron(mg/L) | 0.06 | 0.06 | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 18 | 12 | 26 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 310 | 319 | 307 | 500 | 2000 |
| Calcium(mg/L) | 59.32 | 64.13 | 46.49 | 75 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese(mg/L) | 0.03 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate(mg/L) | 69 | 65 | 100.73 | 200 | 400 |
| Fluoride(mg/L) | 0.66 | 0.61 | 0.53 | 1 | 1.5 |
| Arsenic(mg/L) | <0.002 | 0.003 | <0.002 | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | 0.05 | 0.05 | 0.06 | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 204

| Project / OCP | Jagannath OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|----------------------------|-------------------|-------------------|---|--------------------|
| | Jagannath Colony Tap Water | | | | |
| Monitoring Station | 13-07-2018 | 14-08-2018 | 12-09-2018 | Acceptable | Permissible |
| Dt. of sampling | 13-07-2018 | 14-08-2018 | 12-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 2 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 1 | 1 | 5 |
| pH | 7.60 | 6.75 | 7.08 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 60 | 32 | 40 | 200 | 600 |
| Total Hardness (mg/l) | 128 | 108 | 316 | 200 | 600 |
| Iron (mg/l) | 0.07 | <0.06 | 0.09 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 20 | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 280 | 344 | 794 | 500 | 2000 |
| Calcium (mg/l) | 33.66 | 27.25 | 76.95 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.05 | 0.10 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 72 | 165 | 310.86 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.34 | 0.77 | 0.29 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | 0.03 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.04 | 0.14 | 0.16 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 205

| Project / OCP | Jagannath OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|----------------------------|-------------------|-------------------|---|--------------------|
| | Jagannath Colony Tap Water | | | | |
| Monitoring Station | 13-10-2018 | 14-11-2018 | 08-12-2018 | Acceptable | Permissible |
| Dt. of sampling | 13-10-2018 | 14-11-2018 | 08-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 2 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 1 | 3 | 1 | 5 |
| pH | 7.28 | 7.22 | 7.55 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 32 | 52 | 52 | 200 | 600 |
| Total Hardness (mg/l) | 144 | 140 | 200 | 200 | 600 |
| Iron (mg/l) | 0.12 | 0.15 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 12 | 16 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 288 | 290 | 446 | 500 | 2000 |
| Calcium (mg/l) | 33.6 | 36.8 | 51.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.03 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 87.75 | 79.9 | 153.8 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.41 | 0.34 | 0.64 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.36 | 0.24 | 0.19 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 206

| Project / OCP | Jagannath OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|----------------------------|-------------------|-------------------|---|----------------------|
| | Jagannath Colony Tap Water | | | | |
| Monitoring Station | 17-01-2019 | 07-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Dt. of sampling | 17-01-2019 | 07-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 8 | 3 | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 13 | 1 | 1 | 5 |
| pH | 7.67 | 6.97 | 7.25 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 20 | 68 | 44 | 200 | 600 |
| Total Hardness (mg/l) | 340 | 72 | 220 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.07 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 24 | 16 | 16 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 630 | 260 | 464 | 500 | 2000 |
| Calcium (mg/l) | 83.2 | 17.6 | 59.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 243.83 | 20.28 | 120.25 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.83 | 0.35 | 0.88 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.73 | 0.08 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 207

| Project / OCP | Jagannath OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|---------------------------------|--|--------------------|
| Monitoring Station | Balanda Colony Tap Water | | |
| Dt. of sampling | 17-01-2019 | Acceptable | Permissible |
| Colour (Hazen) | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 5 |
| pH | 7.40 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 104 | 200 | 600 |
| Total Hardness (mg/l) | 380 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 824 | 500 | 2000 |
| Calcium (mg/l) | 100.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 315.57 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 1.03 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.32 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 208

| Project / OCP | Jagannath OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|---------------------------------|--|----------------------|
| Monitoring Station | Rakas Village Well Water | | |
| Dt. of sampling | 11-04-2018 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 1 | 5 |
| pH | 6.99 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 8 | 200 | 600 |
| Total Hardness (mg/l) | 136 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 44 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 280 | 500 | 2000 |
| Calcium (mg/l) | 40.08 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.32 | 0.1 | 0.3 |
| Sulphate (mg/l) | 49 | 200 | 400 |
| Nitrate(mg/l) | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.23 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.07 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 209
Area: Jagannath
Project: Ananta OCP

| Project / OCP Monitoring Station | Ananta OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------|------------|------------|---|---------------|
| | Ananta Colony Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 11-05-2018 | 14-08-2018 | 14-11-2018 | | |
| Colour (Hazen) | 1 | 4 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 9 | 2 | 3 | 1 | 5 |
| pH | 7.66 | 7.17 | 7.53 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 32 | 60 | 200 | 600 |
| Total Hardness (mg/l) | 56 | 92 | 76 | 200 | 600 |
| Iron (mg/l) | 0.07 | <0.06 | 0.17 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 20 | 16 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 204 | 198 | 178 | 500 | 2000 |
| Calcium (mg/l) | 28.86 | 14.4 | 22.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.03 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 12 | 40 | 19 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | 0.81 | 45 | No relaxation |
| Fluoride (mg/l) | 0.47 | 0.39 | 0.36 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | 0.11 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 210
Area: Jagannath
Project: Ananta OCP

| Project / OCP | Ananta OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|-----------------------------------|--|--------------------|
| Monitoring Station | Hensmul Village Well Water | | |
| Dt. of sampling | 11-04-2018 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 1 | 5 |
| pH | 7.36 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 8 | 200 | 600 |
| Total Hardness (mg/l) | 100 | 200 | 600 |
| Iron (mg/l) | 0.18 | 0.3 | No relaxation |
| Chloride (mg/l) | 34 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 188 | 500 | 2000 |
| Calcium (mg/l) | 33.67 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.05 | 0.1 | 0.3 |
| Sulphate (mg/l) | 12 | 200 | 400 |
| Nitrate(mg/l) | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.37 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.28 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 211
Area: Jagannath
Project: Ananta OCP

| Project / OCP Monitoring Station | Ananta OCP | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------|---|---------------|
| | Dera Village Tubewell Water | Acceptable | Permissible |
| Dt. of sampling | 11-04-2018 | | |
| Colour (Hazen) | 9 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 1 | 5 |
| pH | 6.59 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 8 | 200 | 600 |
| Total Hardness (mg/l) | 152 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 46 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 288 | 500 | 2000 |
| Calcium (mg/l) | 43.29 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 36 | 200 | 400 |
| Nitrate(mg/l) | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.36 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | 0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.08 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 212
Area: Bharatpur
Project: Bharatpur OCP

| Project / OCP Monitoring Station | Bharatpur OCP Tap Water in Nehru Shatabdi Nagar A Type Quarters | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|-------------------|-------------------|---|----------------------|
| | 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Dt. of sampling | 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Colour (Hazen) | 8 | 3 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 7 | 3 | 1 | 1 | 5 |
| pH | 7.35 | 7.95 | 7.21 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 20 | 84 | 44 | 200 | 600 |
| Total Hardness (mg/l) | 148 | 120 | 108 | 200 | 600 |
| Iron (mg/l) | 0.07 | 0.11 | 0.16 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 24 | 14 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 288 | 260 | 240 | 500 | 2000 |
| Calcium (mg/l) | 44.89 | 25.65 | 33.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.09 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.1 | 0.05 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 51 | 41 | 54.46 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.28 | 0.30 | 0.51 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.03 | 0.15 | 0.08 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 213

| Project / OCP | Bharatpur OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|--|--|----------------------|
| Monitoring Station | Tap Water in Nehru Shatabdi Nagar A Type Quarters | | |
| Dt. of sampling | 09-01-2019 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 5 |
| pH | 7.26 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 72 | 200 | 600 |
| Total Hardness (mg/l) | 92.0 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 216 | 500 | 2000 |
| Calcium (mg/l) | 27.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 28.31 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.17 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 214

| Project / OCP Monitoring Station | Bharatpur OCP Tap Water in Nehru Shatabdi Nagar B Type Quarters | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|---|---------------|
| | 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Dt. of sampling | 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Colour (Hazen) | 7 | 4 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 2 | 2 | 1 | 5 |
| pH | 7.78 | 7.81 | 7.88 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 16 | 92 | 60 | 200 | 600 |
| Total Hardness (mg/l) | 164 | 96 | 100 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.2 | 0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 24 | 12 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 298 | 232 | 230 | 500 | 2000 |
| Calcium (mg/l) | 43.29 | 35.27 | 28.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.09 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.1 | 0.05 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 57 | 33 | 47.62 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.20 | 0.28 | 0.39 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.02 | 0.04 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 215

| Project / OCP | Bharatpur OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|--|--|--------------------|
| Monitoring Station | Tap Water in Nehru Shatabdi Nagar B Type Quarters | | |
| Dt. of sampling | 09-01-2019 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 5 |
| pH | 7.24 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 76 | 200 | 600 |
| Total Hardness (mg/l) | 88 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 208 | 500 | 2000 |
| Calcium (mg/l) | 26 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 22.2 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.11 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.04 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 216

| Project / OCP Monitoring Station | Bharatpur OCP Tap Water in Nehru Shatabdi Nagar C Type Quarters | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|---|---------------|
| | Dt. of sampling 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 4 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 1 | 3 | 1 | 5 |
| pH | 7.58 | 7.93 | 7.94 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 92 | 52 | 200 | 600 |
| Total Hardness (mg/l) | 136 | 120 | 112 | 200 | 600 |
| Iron (mg/l) | 0.08 | 0.1 | 0.18 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 22 | 14 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 274 | 270 | 238 | 500 | 2000 |
| Calcium (mg/l) | 43.29 | 30.46 | 28.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.09 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.12 | 0.04 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 59 | 42 | 50.53 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.41 | 0.27 | 0.27 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.39 | 0.09 | 0.27 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 217

| Project / OCP | Bharatpur OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|--|--|----------------------|
| Monitoring Station | Tap Water in Nehru Shatabdi Nagar C Type Quarters | Acceptable | Permissible |
| Dt. of sampling | 09-01-2019 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 1 | 5 |
| pH | 7.40 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 64 | 200 | 600 |
| Total Hardness (mg/l) | 80 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 190 | 500 | 2000 |
| Calcium (mg/l) | 22.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 22.68 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.13 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.36 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 218

| Project / OCP Monitoring Station | Bharatpur OCP Tap Water in Nehru Shatabdi Nagar Transit House | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|-------------------|-------------------|---|----------------------|
| | 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Dt. of sampling | 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Colour (Hazen) | 9 | 3 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 3 | 2 | 1 | 5 |
| pH | 7.13 | 7.05 | 6.55 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 16 | 144 | 156 | 200 | 600 |
| Total Hardness (mg/l) | 160 | 136 | 160 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | 0.12 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 22 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 240 | 304 | 364 | 500 | 2000 |
| Calcium (mg/l) | 28.86 | 30.66 | 30.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.09 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.2 | 0.21 | 0.28 | 0.1 | 0.3 |
| Sulphate (mg/l) | 14 | 12 | 10.59 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.18 | 0.35 | 0.45 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.6 | 0.48 | 0.7 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 219

| Project / OCP | Bharatpur OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|--|--|----------------------|
| Monitoring Station | Tap Water in Nehru Shatabdi Nagar Transit House | | |
| Dt. of sampling | 09-01-2019 | Acceptable | Permissible |
| Colour (Hazen) | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 1 | 5 |
| pH | 6.58 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 136 | 200 | 600 |
| Total Hardness (mg/l) | 140 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 306 | 500 | 2000 |
| Calcium (mg/l) | 32 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.11 | 0.1 | 0.3 |
| Sulphate (mg/l) | 7.4 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.23 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.43 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 220

| Project / OCP Monitoring Station | Bharatpur OCP Tap Water in Nehru Shatabdi Nagar Colony | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|---|---------------|
| | Dt. of sampling 11-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Colour (Hazen) | 7 | 2 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 1 | 2 | 1 | 5 |
| pH | 7.22 | 7.81 | 7.39 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 20 | 200 | 40 | 200 | 600 |
| Total Hardness (mg/l) | 272 | 228 | 88 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.4 | 0.12 | 0.3 | No relaxation |
| Chloride (mg/l) | 36 | 54 | 12 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 400 | 450 | 188 | 500 | 2000 |
| Calcium (mg/l) | 56.11 | 80.16 | 22.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.05 | 0.29 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 15 | 19 | 42.28 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.34 | 0.53 | 0.51 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.003 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.04 | 0.42 | 0.51 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 221

| Project / OCP | Bharatpur OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|---|--|----------------------|
| Monitoring Station | Tap Water in Nehru Shatabdi Nagar Colony | Acceptable | Permissible |
| Dt. of sampling | 09-01-2019 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 1 | 5 |
| pH | 7.01 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 144 | 200 | 600 |
| Total Hardness (mg/l) | 136 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 308 | 500 | 2000 |
| Calcium (mg/l) | 33.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.13 | 0.1 | 0.3 |
| Sulphate (mg/l) | 7.08 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.21 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.13 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 222

| Project / OCP Monitoring Station | Bharatpur OCP Tubewell Water at Project Office, Bharatpur OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|-------------------|-------------------|---|----------------------|
| | 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Dt. of sampling | 15-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Colour (Hazen) | 9 | 5 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 4 | 1 | 5 |
| pH | 7.63 | 7.60 | 7.18 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 16 | 80 | 60 | 200 | 600 |
| Total Hardness (mg/l) | 216 | 112 | 96 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.21 | 0.20 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 20 | 12 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 366 | 232 | 230 | 500 | 2000 |
| Calcium (mg/l) | 49.7 | 25.65 | 25.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.09 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | 0.04 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 61 | 31 | 47.90 | 200 | 400 |
| Nitrate(mg/l) | -- | | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.26 | 0.39 | 0.35 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | 0.018 | <0.002 | 0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.37 | 0.2 | 1.18 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 223

| Project / OCP | Bharatpur OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|--|--|--------------------|
| Monitoring Station | Tubewell Water at Project Office, Bharatpur OCP | | |
| Dt. of sampling | 09-01-2019 | Acceptable | Permissible |
| Colour (Hazen) | 8 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 1 | 5 |
| pH | 7.39 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 64 | 200 | 600 |
| Total Hardness (mg/l) | 84 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 192 | 500 | 2000 |
| Calcium (mg/l) | 24 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 22.04 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.15 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | 0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.34 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 224

| Project / OCP Monitoring Station | Bharatpur OCP Singhada Pump House | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--------------------------------------|------------|------------|---|---------------|
| | 11-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Dt. of sampling | 11-04-2018 | 12-07-2018 | 12-10-2018 | Acceptable | Permissible |
| Colour (Hazen) | 8 | 3 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 2 | 1 | 1 | 5 |
| pH | 6.64 | 7.41 | 7.14 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 124 | 44 | 200 | 600 |
| Total Hardness (mg/l) | 108 | 156 | 228 | 200 | 600 |
| Iron (mg/l) | 0.06 | 0.33 | 0.14 | 0.3 | No relaxation |
| Chloride (mg/l) | 24 | 20 | 16 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 206 | 325 | 462 | 500 | 2000 |
| Calcium (mg/l) | 20.84 | 33.66 | 62.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.09 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.1 | 0.18 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 38 | 23 | 137.72 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.26 | 0.53 | 0.26 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.06 | 0.05 | 0.16 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 225

| Project / OCP | Bharatpur OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|----------------------------|--|----------------------|
| Monitoring Station | Singhada Pump House | | |
| Dt. of sampling | 09-01-2019 | Acceptable | Permissible |
| Colour (Hazen) | 10 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 1 | 5 |
| pH | 7..37 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 80 | 200 | 600 |
| Total Hardness (mg/l) | 80 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 202 | 500 | 2000 |
| Calcium (mg/l) | 24 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 24.45 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.16 | 1 | 1.5 |
| Selenium (mg/l) | | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.013 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 226

| Project / OCP Monitoring Station | Bharatpur OCP Time Office, BOCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|------------------------------------|------------|------------|---|----------------------|
| | 11-04-2018 | 11-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Dt. of sampling | 9 | 2 | 4 | 5 | 15 |
| Colour (Hazen) | 9 | 2 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 8 | -- | 1 | 5 |
| pH | 7.80 | 7.20 | 7.87 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 8 | 20 | 8 | 200 | 600 |
| Total Hardness (mg/l) | 628 | 268 | 176 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | 0.18 | 0.3 | No relaxation |
| Chloride (mg/l) | 34 | 32 | 24 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 1021 | 366 | 240 | 500 | 2000 |
| Calcium (mg/l) | 131.46 | 30.46 | 33.67 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 2.02 | <0.02 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 218 | 16 | 30.16 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.32 | 0.45 | 0.39 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.25 | 0.03 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 227

| Project / OCP Monitoring Station | Bharatpur OCP Time Office, BOCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|------------------------------------|------------|------------|---|---------------|
| | Dt. of sampling 12-07-2018 | 14-08-2018 | 11-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 2 | 12 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 2 | 1 | 5 |
| pH | 6.84 | 6.75 | 6.75 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 36 | 32 | 100 | 200 | 600 |
| Total Hardness (mg/l) | 272 | 108 | 84 | 200 | 600 |
| Iron (mg/l) | 0.07 | <0.06 | 0.19 | 0.3 | No relaxation |
| Chloride (mg/l) | 24 | 20 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 360 | 344 | 214 | 500 | 2000 |
| Calcium (mg/l) | 64.12 | 27.25 | 24.04 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.43 | 0.10 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 216 | 165 | 5.06 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.61 | 0.77 | 0.36 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.8 | 0.14 | 4.25 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 228

| Project / OCP Monitoring Station | Bharatpur OCP Time Office, BOCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|------------------------------------|------------|------------|---|---------------|
| | Dt. of sampling | 12-10-2018 | 14-11-2018 | 06-12-2018 | Acceptable |
| Colour (Hazen) | 2 | 6 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 4 | 4 | 1 | 5 |
| pH | 7.55 | 6.56 | 6.76 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 64 | 92 | 88 | 200 | 600 |
| Total Hardness (mg/l) | 296 | 96 | 84 | 200 | 600 |
| Iron (mg/l) | 0.14 | <0.06 | 0.30 | 0.3 | No relaxation |
| Chloride (mg/l) | 24 | 14 | 16 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 570 | 210 | 196 | 500 | 2000 |
| Calcium (mg/l) | 60.8 | 30.4 | 25.3 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.02 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 176.24 | 3.3 | 2.6 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.27 | 0.27 | 0.18 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.34 | 1.58 | 1.04 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 229

| Project / OCP Monitoring Station | Bharatpur OCP Time Office, BOCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|------------------------------------|------------|------------|---|---------------|
| | Dt. of sampling | 09-01-2019 | 08-02-2019 | 13-03-2019 | Acceptable |
| Colour (Hazen) | 21 | 8 | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 11 | 3 | 1 | 1 | 5 |
| pH | 6.95 | 7.35 | 6.84 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 88 | 60 | 20 | 200 | 600 |
| Total Hardness (mg/l) | 92 | 368 | 380 | 200 | 600 |
| Iron (mg/l) | 0.24 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 14 | 24 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 210 | 820 | 772 | 500 | 2000 |
| Calcium (mg/l) | 28.8 | 78.4 | 84.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 3.38 | 328.63 | 348.21 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.15 | 0.39 | 0.57 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.67 | 0.04 | 0.73 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 230

| Project / OCP Monitoring Station | Bharatpur OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------|------------|------------|---|---------------|
| | Badasinga Village Open Well | | | | |
| Dt. of sampling | 11-04-2018 | 11-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 3 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 8 | -- | 1 | 5 |
| pH | 7.47 | 7.46 | 7.24 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 32 | 24 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 300 | 284 | 156 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 194 | 168 | 212 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 792 | 698 | 480 | 500 | 2000 |
| Calcium (mg/l) | 28.86 | 96.19 | 46.49 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | 0.06 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 70 | 71 | 84.37 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.28 | 0.39 | 0.45 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.04 | <0.02 | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table:231

| Project / OCP Monitoring Station | Bharatpur OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------|------------|------------|---|---------------|
| | Badasinga Village Open Well | | | Acceptable | Permissible |
| Dt. of sampling | 12-07-2018 | 14-08-2018 | 11-09-2018 | | |
| Colour (Hazen) | 5 | 5 | 9 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 1 | 1 | 1 | 5 |
| pH | 7.08 | 7.20 | 7.02 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 208 | 200 | 220 | 200 | 600 |
| Total Hardness (mg/l) | 216 | 248 | 240 | 200 | 600 |
| Iron (mg/l) | 0.09 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 96 | 146 | 158 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 605 | 719 | 698 | 500 | 2000 |
| Calcium (mg/l) | 56.11 | 72.14 | 72.14 | 75 | 200 |
| Copper (mg/l) | 0.1 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | 0.04 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 86 | 104 | 72.71 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.48 | 0.55 | 0.25 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.03 | 0.02 | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 232

| Project / OCP Monitoring Station | Bharatpur OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------|------------|------------|---|---------------|
| | Badasinga Village Open Well | | | Acceptable | Permissible |
| Dt. of sampling | 12-10-2018 | 14-11-2018 | 06-12-2018 | | |
| Colour (Hazen) | 1 | 2 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 1 | 2 | 1 | 5 |
| pH | 7.12 | 6.88 | 7.13 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 44 | 220 | 172 | 200 | 600 |
| Total Hardness (mg/l) | 172 | 212 | 224 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.15 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 184 | 156 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 372 | 788 | 848 | 500 | 2000 |
| Calcium (mg/l) | 38.4 | 76.8 | 67.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 103.87 | 96.5 | 128.8 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 70.6 | 76 | 45 | No relaxation |
| Fluoride (mg/l) | 0.31 | 0.39 | 0.23 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.30 | <0.02 | 0.04 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 233

| Project / OCP Monitoring Station | Bharatpur OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------|------------|------------|---|---------------|
| | Badasinga Village Open Well | | | | |
| Dt. of sampling | 09-01-2019 | 08-02-2019 | 13-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 2 | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 1 | 1 | 1 | 5 |
| pH | 6.90 | 6.96 | 7.37 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 212 | 248 | 84 | 200 | 600 |
| Total Hardness (mg/l) | 232 | 264 | 108 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 120 | 168 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 726 | 910 | 262 | 500 | 2000 |
| Calcium (mg/l) | 68.8 | 81.6 | 24 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 118.06 | 117.17 | 24.14 | 200 | 400 |
| Nitrate(mg/l) | 43.16 | 44.6 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.13 | 0.43 | 0.21 | 1 | 1.5 |
| Selenium (mg/l) | - | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | <0.02 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 234

| Project / OCP Monitoring Station | Bharatpur OCP Taleipasi Village Open Well | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | 15-04-2018 | 11-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Dt. of sampling | 15-04-2018 | 11-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 8 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 8 | -- | 1 | 5 |
| pH | 7.31 | 7.33 | 7.12 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 20 | 20 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 544 | 544 | 356 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | 0.16 | 0.3 | No relaxation |
| Chloride (mg/l) | 204 | 170 | 216 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 968 | 866 | 1054 | 500 | 2000 |
| Calcium (mg/l) | 120.24 | 52.90 | 120.24 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | <0.02 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 80 | 79 | 137.51 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.26 | 0.72 | 0.51 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.41 | <0.02 | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 235

| Project / OCP Monitoring Station | Bharatpur OCP Taleipasi Village Open Well | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling 12-07-2018 | 14-08-2018 | 11-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 13 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 7 | 1 | 1 | 5 |
| pH | 7.30 | 6.76 | 7.01 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 164 | 164 | 168 | 200 | 600 |
| Total Hardness (mg/l) | 340 | 248 | 284 | 200 | 600 |
| Iron (mg/l) | 0.08 | 0.09 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 172 | 112 | 170 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 814 | 541 | 852 | 500 | 2000 |
| Calcium (mg/l) | 104.21 | 51.30 | 96.19 | 75 | 200 |
| Copper (mg/l) | 0.1 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.05 | 0.18 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 138 | 7 | 180.31 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.54 | 0.74 | 0.38 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.12 | 11.06 | 0.10 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 236

| Project / OCP Monitoring Station | Bharatpur OCP Taleipasi Village Open Well | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling | 12-10-2018 | 14-11-2018 | 06-12-2018 | Acceptable |
| Colour (Hazen) | 3 | 3 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 2 | 3 | 1 | 5 |
| pH | 7.01 | 6.89 | 7.46 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 36 | 60 | 84 | 200 | 600 |
| Total Hardness (mg/l) | 176 | 124 | 232 | 200 | 600 |
| Iron (mg/l) | 0.16 | 0.16 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 62 | 130 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 346 | 336 | 528 | 500 | 2000 |
| Calcium (mg/l) | 36.8 | 36.8 | 62.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 104.43 | 28.3 | 57.7 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | 60.29 | 10 | 45 | No relaxation |
| Fluoride (mg/l) | 0.41 | 0.35 | 0.25 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.50 | <0.02 | 0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 237

| Project / OCP Monitoring Station | Bharatpur OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------|------------|------------|---|---------------|
| | Taleipasi Village Open Well | | | | |
| Dt. of sampling | 09-01-2019 | 08-02-2019 | 13-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 12 | 2 | 8 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 1 | 1 | 1 | 5 |
| pH | 7.51 | 7.69 | 7.32 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 52 | 256 | 52 | 200 | 600 |
| Total Hardness (mg/l) | 96 | 260 | 56 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 32 | 170 | 8 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 204 | 908 | 164 | 500 | 2000 |
| Calcium (mg/l) | 27.2 | 80.0 | 12.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 20.43 | 127.40 | 7.12 | 200 | 400 |
| Nitrate(mg/l) | 2.86 | 41.6 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.17 | 0.37 | 0.12 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | -- | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | <0.02 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 238

| Project / OCP Monitoring Station | Bharatpur OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|------------------------------------|------------|------------|---|---------------|
| | Sand Bed Filter Unit at Old Quarry | | | Acceptable | Permissible |
| Dt. of sampling | 11-04-2018 | 11-05-2018 | 12-06-2018 | | |
| Colour (Hazen) | 2 | 1 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 10 | -- | 1 | 5 |
| pH | 7.08 | 7.52 | 5.25 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 16 | 12 | 8 | 200 | 600 |
| Total Hardness (mg/l) | 636 | 104 | 540 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.24 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 36 | 42 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 1056 | 238 | 1100 | 500 | 2000 |
| Calcium (mg/l) | 163.53 | 40.08 | 155.51 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 2.31 | <0.02 | 1.82 | 0.1 | 0.3 |
| Sulphate (mg/l) | 186 | 40 | 229.65 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.24 | 0.38 | 0.53 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.08 | 0.27 | 0.05 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | 0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 239

| Project / OCP Monitoring Station | Bharatpur OCP Sand Bed Filter Unit at Old Quarry | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|---|---------------|
| | Dt. of sampling | 12-07-2018 | 14-08-2018 | 11-09-2018 | Acceptable |
| Colour (Hazen) | 3 | 2 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 1 | 1 | 5 |
| pH | 4.75 | 6.50 | 6.90 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 4 | 18 | 132 | 200 | 600 |
| Total Hardness (mg/l) | 372 | 184 | 116 | 200 | 600 |
| Iron (mg/l) | 0.12 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 30 | 24 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 701 | 485 | 342 | 500 | 2000 |
| Calcium (mg/l) | 76.96 | 44.89 | 32.06 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.98 | 0.20 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 293 | 260 | 18.81 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.53 | 0.75 | 0.37 | 1 | 1.5 |
| Selenium (mg/l) | <0.002 | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.005 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | 0.13 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.05 | 0.03 | 0.59 | 5 | 15 |
| Total Chromium (mg/l) | <0.2 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 240

| Project / OCP Monitoring Station | Bharatpur OCP Sand Bed Filter Unit at Old Quarry | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|---|---------------|
| | Dt. of sampling 12-10-2018 | 14-11-2018 | 08-02-2019 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 2 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 3 | 1 | 1 | 5 |
| pH | 7.55 | 6.65 | 7.12 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 64 | 20 | 56 | 200 | 600 |
| Hardness (mg/l) | 264 | 212 | 284 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.16 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 16 | 24 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 510 | 408 | 778 | 500 | 2000 |
| Calcium (mg/l) | 59.2 | 49.6 | 78.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.06 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 153.93 | 158 | 331.75 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.52 | 0.40 | 0.73 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | -- | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.03 | 0.03 | 0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 241
Area: Bharatpur
Project: Chhendipada OCP

| Project / OCP Monitoring Station | Chhendipada Bore Well Water at Site Office | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|-------------------|-------------------|---|----------------------|
| | 15-04-2018 | 04-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Dt. of sampling | 15-04-2018 | 04-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 3 | 2.0 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 8 | -- | 1 | 5 |
| pH | 7.57 | 6.98 | 7.90 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 12 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 232 | 268 | 232 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.07 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 36 | 136 | 90 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 308 | 632 | 568 | 500 | 2000 |
| Calcium (mg/l) | 17.64 | 72.14 | 72.14 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.08 | <0.02 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 8 | 25 | 74.78 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.37 | 0.41 | 0.44 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.03 | 0.05 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | 0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 242

| Project / OCP Monitoring Station | Chhendipada | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--------------------------------|------------|------------|---|---------------|
| | Bore Well Water at Site Office | | | Acceptable | Permissible |
| Dt. of sampling | 04-07-2018 | 07-08-2018 | 04-09-2018 | | |
| Colour (Hazen) | 5 | 2 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 1 | 1 | 5 |
| pH | 8.00 | 6.20 | 7.15 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 172 | 48 | 320 | 200 | 600 |
| Total Hardness (mg/l) | 104 | 64 | 196 | 200 | 600 |
| Iron (mg/l) | 0.07 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 58 | 18 | 108 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 648 | 203 | 642 | 500 | 2000 |
| Calcium (mg/l) | 46.49 | 19.24 | 62.52 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.06 | 0.08 | 0.06 | 0.1 | 0.3 |
| Sulphate (mg/l) | 312 | 6 | 4.18 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.57 | 0.40 | 0.24 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.12 | 0.02 | 0.09 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 243

| Project / OCP Monitoring Station | Chhendipada | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--------------------------------|------------|------------|---|---------------|
| | Bore Well Water at Site Office | | | | |
| Dt. of sampling | 12-10-2018 | 13-11-2018 | 04/12/2018 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 7 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 4 | 4 | 1 | 5 |
| pH | 7.76 | 6.91 | 6.51 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 96 | 216 | 116 | 200 | 600 |
| Total Hardness (mg/l) | 156 | 536 | 168 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.15 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 94 | 268 | 58 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 478 | 1310 | 376 | 500 | 2000 |
| Calcium (mg/l) | 36.8 | 156.8 | 60.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.34 | 0.1 | 0.3 |
| Sulphate (mg/l) | 58.5 | 180.6 | 1.8 | 200 | 400 |
| Nitrate(mg/l) | 48.12 | 41.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.49 | 0.34 | 0.78 | 1 | 1.5 |
| Selenium (mg/l) | -- | - | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.02 | 0.22 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 244

| Project / OCP Monitoring Station | Chhendipada | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--------------------------------|------------|---|---------------|
| | Bore Well Water at Site Office | | | |
| Dt. of sampling | 16-01-2019 | 06-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 6 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 13 | 1 | 1 | 5 |
| pH | 5.90 | 7.38 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 200 | 48 | 200 | 600 |
| Total Hardness (mg/l) | 64 | 48 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 32 | 10 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 344 | 114 | 500 | 2000 |
| Calcium (mg/l) | 16 | 12.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 2.57 | 7.58 | 200 | 400 |
| Nitrate(mg/l) | 38.9 | <0.05 | 45 | No relaxation |
| Fluoride (mg/l) | 0.15 | 0.17 | 1 | 1.5 |
| Selenium (mg/l) | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.08 | 0.09 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 245
Area: Lingraj
Project: Lingraj OCP

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | MTK Office, Lingraj OCP Tap Water | | | | |
| Dt. of sampling | 11-04-2018 | 11-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 4.0 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 8 | -- | 1 | 5 |
| pH | 8.02 | 7.50 | 7.61 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 16 | 8 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 116 | 72 | 96 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.12 | 0.08 | 0.3 | No relaxation |
| Chloride (mg/l) | 14 | 16 | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 210 | 130 | 202 | 500 | 2000 |
| Calcium (mg/l) | 41.68 | 27.25 | 43.29 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 22 | 8 | 18.51 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.39 | 0.45 | 0.54 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.07 | 0.02 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | 0.06 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 246

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | MTK Office, Lingraj OCP Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 13-07-2018 | 06-08-2018 | 13-09-2018 | | |
| Colour (Hazen) | 4 | 2 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 6 | 5 | 1 | 5 |
| pH | 7.78 | 7.13 | 6.65 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 52 | 28 | 20 | 200 | 600 |
| Total Hardness (mg/l) | 88 | 68 | 64 | 200 | 600 |
| Iron (mg/l) | 0.17 | <0.06 | 0.18 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 20 | 16 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 223 | 175 | 164 | 500 | 2000 |
| Calcium (mg/l) | 20.84 | 12.83 | 12.82 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.02 | 0.03 | 0.07 | 0.1 | 0.3 |
| Sulphate (mg/l) | 33 | 36 | 49.72 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.34 | 0.23 | 0.46 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.1 | 0.56 | 1.47 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 247

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | MTK Office, Lingraj OCP Tap Water | | | | |
| Dt. of sampling | 13-10-2018 | 13-11-2018 | 07-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 3 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 4 | 4 | 1 | 5 |
| pH | 6.82 | 7.37 | 7.23 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 24 | 48 | 56 | 200 | 600 |
| Total Hardness (mg/l) | 60 | 68 | 64 | 200 | 600 |
| Iron (mg/l) | 0.14 | 0.18 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 10 | 10 | 16 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 132 | 138 | 174 | 500 | 2000 |
| Calcium (mg/l) | 12.8 | 12.8 | 16.0 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 29.25 | 10.3 | 17.4 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.36 | 0.28 | 0.60 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 1.65 | 0.15 | 0.22 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 248

| Project / OCP | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-----------------------------|-----------------------------------|------------|------------|---|---------------|
| | MTK Office, Lingraj OCP Tap Water | | | Acceptable | Permissible |
| Monitoring Station | 09-01-2019 | 09-02-2019 | 14-03-2019 | | |
| Dt. of sampling | 09-01-2019 | 09-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 7 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 2 | 2 | 1 | 5 |
| pH | 7.48 | 7.65 | 7.57 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 52 | 64 | 76 | 200 | 600 |
| Total Hardness (mg/l) | 52 | 80 | 96 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.14 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 12 | 14 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 146 | 268 | 232 | 500 | 2000 |
| Calcium (mg/l) | 12.8 | 17.6 | 20.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 8.85 | 22.53 | 20.43 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.16 | 0.40 | 0.29 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.005 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | 0.12 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.16 | 0.48 | <0.05 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.2 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.0005 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | 0.29 | 0.003 | No relaxation |

Table: 249

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---------------------------|------------|------------|--|---------------|
| | Deulbera Colony Tap Water | | | | |
| Dt. of sampling | 11-04-2018 | 11-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 9 | 6.0 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 8 | -- | 1 | 5 |
| pH | 7.81 | 7.55 | 7.50 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 16 | 8 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 60 | 88 | 88 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.09 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 12 | 12 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 116 | 140 | 232 | 500 | 2000 |
| Calcium (mg/l) | 20.84 | 20.84 | 16.03 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | <0.02 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 7 | 7 | 15.86 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.33 | 0.32 | 0.56 | 1 | 1.5 |
| Selenium (mg/l) | | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.09 | 0.04 | 0.15 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | 0.07 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 250

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---------------------------|------------|------------|--|---------------|
| | Deulbera Colony Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 13-07-2018 | 06-08-2018 | 13-09-2018 | | |
| Colour (Hazen) | 4 | 4 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 1 | 1 | 1 | 5 |
| pH | 7.30 | 7.64 | 7.30 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 44 | 56 | 44 | 200 | 600 |
| Total Hardness (mg/l) | 88 | 136 | 68 | 200 | 600 |
| Iron (mg/l) | 0.13 | 0.07 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 14 | 28 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 215 | 282 | 176 | 500 | 2000 |
| Calcium (mg/l) | 20.84 | 25.65 | 17.63 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.04 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 37 | 58 | 40.26 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.30 | 0.33 | 0.41 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.11 | 0.71 | 0.41 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 251

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---------------------------|------------|------------|--|---------------|
| | Deulbera Colony Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 13-10-2018 | 13-11-2018 | 07-12-2018 | | |
| Colour (Hazen) | 2 | 2 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 2 | 3 | 1 | 5 |
| pH | 7.45 | 7.36 | 7.60 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 112 | 72 | 64 | 200 | 600 |
| Total Hardness (mg/l) | 108 | 100 | 84 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.19 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 20 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 280 | 222 | 202 | 500 | 2000 |
| Calcium (mg/l) | 22.4 | 24 | 19.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 35.34 | 25.5 | 25.9 | 200 | 400 |
| Nitrate(mg/l) | 1.50 | 2.12 | 0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.47 | 0.33 | 0.22 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.24 | 0.28 | 0.31 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 252

| Project / OCP Monitoring Station | Lingraj OCP Deulbera Colony Tap Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|--|---------------|
| | Dt. of sampling 09-01-2019 | 09-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 7 | 4 | 10 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 2 | 1 | 1 | 5 |
| pH | 7.62 | 7.66 | 7.62 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 48 | 84 | 84 | 200 | 600 |
| Total Hardness (mg/l) | 64 | 104 | 92 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 14 | 16 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 140 | 300 | 216 | 500 | 2000 |
| Calcium (mg/l) | 16 | 24.0 | 22.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 12.22 | 24.09 | 21.05 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.17 | 0.46 | 0.29 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.11 | 0.32 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 253

| Project / OCP Monitoring Station | Lingraj OCP PO Office, Lingraj OCP Tap Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|--|----------------------|
| | Dt. of sampling | 11-04-2018 | 11-05-2018 | 13-06-2018 | Acceptable |
| Colour (Hazen) | 3 | 7.0 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 9 | -- | 1 | 5 |
| pH | 8.02 | 7.67 | 7.13 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 16 | 8 | 200 | 600 |
| Total Hardness (mg/l) | 60 | 68 | 108 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 12 | 12 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 120 | 121 | 258 | 500 | 2000 |
| Calcium (mg/l) | 30.46 | 17.64 | 22.44 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | <0.02 | 0.06 | 0.1 | 0.3 |
| Sulphate (mg/l) | 5 | 6 | 7.02 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.21 | 0.51 | 0.36 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.02 | 0.08 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | 0.09 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 254

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------------|------------|------------|--|---------------|
| | PO Office, Lingraj OCP Tap Water | | | | |
| Dt. of sampling | 13-07-2018 | 06-08-2018 | 13-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 2 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 3 | 2 | 1 | 5 |
| pH | 7.70 | 7.23 | 6.99 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 56 | 92 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 52 | 128 | 52 | 200 | 600 |
| Iron (mg/l) | 0.1 | 0.09 | 0.07 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 32 | 16 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 164 | 338 | 128 | 500 | 2000 |
| Calcium (mg/l) | 16.03 | 30.46 | 17.63 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | 0.06 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 18 | 59 | 32.01 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.29 | 0.45 | 0.37 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.04 | 0.16 | 0.11 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 255

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------------|------------|------------|--|---------------|
| | PO Office, Lingraj OCP Tap Water | | | | |
| Dt. of sampling | 13-10-2018 | 13-11-2018 | 07-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 3 | 4 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 3 | 4 | 1 | 5 |
| pH | 7.24 | 7.27 | 7.37 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 56 | 84 | 84 | 200 | 600 |
| Total Hardness (mg/l) | 116 | 108 | 104 | 200 | 600 |
| Iron (mg/l) | 0.15 | 0.2 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 24 | 22 | 24 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 258 | 248 | 272 | 500 | 2000 |
| Calcium (mg/l) | 27.2 | 25.6 | 25.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 48.09 | 29.7 | 32.3 | 200 | 400 |
| Nitrate(mg/l) | 1.48 | 2.29 | 1.58 | 45 | No relaxation |
| Fluoride (mg/l) | 0.28 | 0.38 | 0.35 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.19 | 0.18 | 0.16 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 256

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------------|------------|------------|--|---------------|
| | PO Office, Lingraj OCP Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 09-01-2019 | 09-02-2019 | 14-03-2019 | | |
| Colour (Hazen) | 7 | 3 | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | <1 | 2 | 1 | 5 |
| pH | 7.56 | 7.57 | 7.50 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 52 | 60 | 92 | 200 | 600 |
| Total Hardness (mg/l) | 64 | 72 | 120 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 12 | 14 | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 138 | 206 | 284 | 500 | 2000 |
| Calcium (mg/l) | 12.8 | 17.6 | 27.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 8.04 | 17.33 | 31.26 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | 0.67 | 45 | No relaxation |
| Fluoride (mg/l) | 0.11 | 0.41 | 0.19 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.08 | 0.10 | 0.01 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 257

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|--|---------------|
| | GM Office, Lingraj Area Tap Water | | | | |
| Dt. of sampling | 11-04-2018 | 11-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 8 | 3.0 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 9 | -- | 1 | 5 |
| pH | 7.58 | 7.65 | 7.78 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 8 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 32 | 44 | 108 | 200 | 600 |
| Iron (mg/l) | 0.12 | 0.24 | 0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 14 | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 92 | 91 | 196 | 500 | 2000 |
| Calcium (mg/l) | 24.05 | 19.24 | 35.27 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | <0.02 | 0.03 | 0.1 | 0.3 |
| Sulphate (mg/l) | 8 | 6 | 5.53 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.34 | 0.53 | 0.41 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | 0.006 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.11 | <0.02 | 0.11 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | 0.09 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 258

| Project / OCP Monitoring Station | Lingraj OCP GM Office, Lingraj Area Tap Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|--|----------------------|
| | 13-07-2018 | 13-09-2018 | 13-09-2018 | Acceptable | Permissible |
| Dt. of sampling | | | | | |
| Colour (Hazen) | 4 | 1 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 1 | 1 | 1 | 5 |
| pH | 7.34 | 7.06 | 7.06 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 44 | 40 | 40 | 200 | 600 |
| Total Hardness (mg/l) | 92 | 68 | 68 | 200 | 600 |
| Iron (mg/l) | 0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 14 | 14 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 210 | 182 | 182 | 500 | 2000 |
| Calcium (mg/l) | 19.23 | 17.63 | 17.63 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 32 | 43.78 | 43.78 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.36 | 0.28 | 0.28 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.07 | 0.12 | 0.12 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 259

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|--|---------------|
| | GM Office, Lingraj Area Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 13-10-2018 | 13-11-2018 | 07-12-2018 | | |
| Colour (Hazen) | 1 | 3 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 1 | 2 | 1 | 5 |
| pH | 7.44 | 7.61 | 7.67 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 56 | 80 | 48 | 200 | 600 |
| Total Hardness (mg/l) | 120 | 108 | 60 | 200 | 600 |
| Iron (mg/l) | 0.17 | 0.25 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 22 | 14 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 278 | 246 | 154 | 500 | 2000 |
| Calcium (mg/l) | 27.2 | 25.6 | 14.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.02 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 47.15 | 30.6 | 13.3 | 200 | 400 |
| Nitrate(mg/l) | 1.68 | 2.97 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.33 | 0.34 | 0.27 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.32 | 0.17 | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 260

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|--|---------------|
| | GM Office, Lingraj Area Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 09-01-2019 | 09-02-2019 | 14-03-2019 | | |
| Colour (Hazen) | 5 | 4 | 9 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | <1 | 1 | 1 | 5 |
| pH | 7.67 | 7.45 | 7.27 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 52 | 76 | 64 | 200 | 600 |
| Total Hardness (mg/l) | 60 | 72 | 84 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 14 | 12 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 162 | 214 | 204 | 500 | 2000 |
| Calcium (mg/l) | 14.4 | 17.6 | 22.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 10.45 | 16.47 | 29.25 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | 1.56 | 45 | No relaxation |
| Fluoride (mg/l) | 0.16 | 0.63 | 0.11 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.12 | 0.09 | 0.13 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 261

| Project / OCP Monitoring Station | Lingraj OCP Lingraj Township Tap Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|--|---------------|
| | Dt. of sampling 15-04-2018 | 11-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 9 | 2.0 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 8 | -- | 1 | 5 |
| pH | 7.70 | 7.68 | 7.36 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 16 | 8 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 120 | 104 | 116 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.10 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 26 | 22 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 240 | 192 | 214 | 500 | 2000 |
| Calcium (mg/l) | 38.48 | 28.86 | 33.67 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | <0.02 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 40 | 29 | 18.92 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.33 | 0.48 | 0.48 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.55 | 1.09 | 0.35 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 262

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------|------------|------------|--|---------------|
| | Lingraj Township Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 13-07-2018 | 06-08-2018 | 13-09-2018 | | |
| Colour (Hazen) | 3 | 2 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 3 | 2 | 1 | 5 |
| pH | 7.22 | 7.17 | 7.03 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 60 | 36 | 36 | 200 | 600 |
| Total Hardness (mg/l) | 80 | 84 | 72 | 200 | 600 |
| Iron (mg/l) | 0.11 | 0.08 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 26 | 26 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 236 | 193 | 192 | 500 | 2000 |
| Calcium (mg/l) | 22.44 | 17.64 | 22.44 | 75 | 200 |
| Copper (mg/l) | 0.08 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | 0.05 | 0.03 | 0.1 | 0.3 |
| Sulphate (mg/l) | 43 | 51 | 47.74 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.40 | 0.28 | 0.36 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.32 | 0.64 | 0.39 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 263

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------|------------|------------|--|---------------|
| | Lingraj Township Tap Water | | | | |
| Dt. of sampling | 13-10-2018 | 13-11-2018 | 07-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 4 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 3 | 3 | 1 | 5 |
| pH | 7.08 | 7.02 | 7.36 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 48 | 60 | 64 | 200 | 600 |
| Total Hardness (mg/l) | 92 | 84 | 92 | 200 | 600 |
| Iron (mg/l) | 0.14 | 0.19 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 20 | 26 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 226 | 198 | 258 | 500 | 2000 |
| Calcium (mg/l) | 24 | 20.8 | 22.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.02 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 37.68 | 37.68 | 38.5 | 200 | 400 |
| Nitrate(mg/l) | 2.77 | 4.64 | 5.21 | 45 | No relaxation |
| Fluoride (mg/l) | 0.44 | 0.43 | 0.68 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.29 | 0.33 | 0.68 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | 0.0007 | 0.003 | No relaxation |

Table: 264

| Project / OCP Monitoring Station | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------|------------|------------|---|---------------|
| | Lingraj Township Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 09-01-2019 | 09-02-2019 | 14-03-2019 | | |
| Colour (Hazen) | 4 | 7 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 1 | 1 | 1 | 5 |
| pH | 7.51 | 7.19 | 7.51 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 72 | 60 | 180 | 200 | 600 |
| Total Hardness (mg/l) | 104 | 96 | 164 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 24 | 22 | 72 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 244 | 260 | 422 | 500 | 2000 |
| Calcium (mg/l) | 25.6 | 25.6 | 20.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 35.71 | 24.78 | 3.87 | 200 | 400 |
| Nitrate(mg/l) | 4.71 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.11 | 0.55 | 0.59 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.32 | 0.10 | 0.04 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 265
Area: Kaniha
Project: Kaniha OCP

| Project / OCP | Kaniha OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|---------------------------------------|--|----------------------|
| Monitoring Station | Project Office Tube Well Water | | |
| Dt. of sampling | 11-04-18 | Acceptable | Permissible |
| Colour (Hazen) | 10 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 1 | 5 |
| pH | 7.85 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 36 | 200 | 600 |
| Total Hardness (mg/l) | 48 | 200 | 600 |
| Iron (mg/l) | 0.1 | 0.3 | No relaxation |
| Chloride (mg/l) | 40 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 190 | 500 | 2000 |
| Calcium (mg/l) | 36.87 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.08 | 0.1 | 0.3 |
| Sulphate (mg/l) | 26 | 200 | 400 |
| Nitrate(mg/l) | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.44 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 1.4 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 266

| Project / OCP | Kaniha OCP | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|----------------------|--|----------------------|
| Monitoring Station | Jarda Village | | |
| Dt. of sampling | 11-04-18 | Acceptable | Permissible |
| Colour (Hazen) | 8 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 1 | 5 |
| pH | 8.19 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 16 | 200 | 600 |
| Total Hardness (mg/l) | 424 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 170 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 726 | 500 | 2000 |
| Calcium (mg/l) | 35.27 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | 0.1 | 0.3 |
| Sulphate (mg/l) | 69 | 200 | 400 |
| Nitrate(mg/l) | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.29 | 1 | 1.5 |
| Selenium (mg/l) | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.20 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.003 | No relaxation |

Table: 267
Area: Hingula
Project: Hingula OCP

| Project / OCP Monitoring Station | Hingula OCP Time Office Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------------|------------|------------|---|---------------|
| | 11-04-2018 | 10-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Dt. of sampling | 11-04-2018 | 10-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 3 | 1 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 7 | 9 | -- | 1 | 5 |
| pH | 6.65 | 7.75 | 7.92 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 8 | 28 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 136 | 368 | 144 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 60 | 54 | 78 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 189 | 590 | 388 | 500 | 2000 |
| Calcium (mg/l) | 73.75 | 129.86 | 17.64 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.13 | 0.05 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 11 | 10 | 1.65 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.36 | 0.38 | 0.38 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 1.14 | 0.02 | 0.1 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 268

| Project / OCP Monitoring Station | Hingula OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------|------------|------------|---|---------------|
| | Time Office Water | | | | |
| Dt. of sampling | 12-07-2018 | 13-08-2018 | 12-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 2 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 2 | 1 | 1 | 5 |
| pH | 6.29 | 7.98 | 7.95 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 52 | 184 | 176 | 200 | 600 |
| Total Hardness (mg/l) | 68 | 144 | 160 | 200 | 600 |
| Iron (mg/l) | 0.09 | 0.11 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 60 | 78 | 76 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 218 | 498 | 462 | 500 | 2000 |
| Calcium (mg/l) | 19.23 | 22.44 | 22.44 | 75 | 200 |
| Copper (mg/l) | 0.08 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.15 | 0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 11.0 | 5 | 5.94 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.33 | 0.70 | 0.57 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.18 | 0.10 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 269

| Project / OCP Monitoring Station | Hingula OCP Time Office Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------------|------------|------------|---|---------------|
| | 11-10-2018 | 14-11-2018 | 06-12-2018 | Acceptable | Permissible |
| Dt. of sampling | | | | | |
| Colour (Hazen) | 2 | 5 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 3 | 1 | 1 | 5 |
| pH | 7.88 | 7.70 | 7.54 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 188 | 172 | 172 | 200 | 600 |
| Total Hardness (mg/l) | 172 | 160 | 156 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.18 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 72 | 76 | 76 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 484 | 412 | 418 | 500 | 2000 |
| Calcium (mg/l) | 22.4 | 17.6 | 17.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.04 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.03 | 0.1 | 0.3 |
| Sulphate (mg/l) | 5.43 | 3.00 | 2.7 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.25 | 0.26 | 0.68 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.08 | 0.10 | 0.14 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 270

| Project / OCP Monitoring Station | Hingula OCP Time Office Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|----------------------------------|------------|------------|---|----------------------|
| | 16-01-2019 | 08-02-2019 | 12-03-2019 | Acceptable | Permissible |
| Dt. of sampling | | | | | |
| Colour (Hazen) | 4 | 3 | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | <1 | 1 | 1 | 5 |
| pH | 7.84 | 6.44 | 7.48 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 64 | 68 | 68 | 200 | 600 |
| Total Hardness (mg/l) | 200 | 424 | 404 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 56 | 26 | 28 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 340 | 552 | 840 | 500 | 2000 |
| Calcium (mg/l) | 52.8 | 84.8 | 84.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 14.96 | 322.39 | 338.46 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.72 | 0.48 | 0.56 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | 0.17 | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 271

| Project / OCP Monitoring Station | Hingula OCP Gopalprasad Village Bore Well Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling 11-04-2018 | 10-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 10 | 10 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 9 | -- | 1 | 5 |
| pH | 8.04 | 8.05 | 7.05 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 20 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 532 | 200 | 228 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | 0.09 | 0.3 | No relaxation |
| Chloride (mg/l) | 30 | 42 | 102 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 760 | 306 | 466 | 500 | 2000 |
| Calcium (mg/l) | 160.32 | 40.08 | 48.10 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | <0.02 | 0.03 | 0.1 | 0.3 |
| Sulphate (mg/l) | 26 | 4 | 2.56 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.20 | 0.32 | 0.61 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.02 | <0.02 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.05 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 272

| Project / OCP Monitoring Station | Hingula OCP Gopalprasad Village Bore Well Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | 12-07-2018 | 13-08-2018 | 12-09-2018 | Acceptable | Permissible |
| Dt. of sampling | 12-07-2018 | 13-08-2018 | 12-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 2 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 3 | 1 | 1 | 5 |
| pH | 7.94 | 7.12 | 7.60 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 68 | 264 | 308 | 200 | 600 |
| Total Hardness (mg/l) | 408 | 236 | 240 | 200 | 600 |
| Iron (mg/l) | 0.06 | 0.10 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 34 | 100 | 30 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 865 | 661 | 704 | 500 | 2000 |
| Calcium (mg/l) | 86.57 | 33.67 | 52.90 | 75 | 200 |
| Copper (mg/l) | 0.08 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | 0.03 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 268 | 14 | 30.69 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.49 | 0.28 | 0.34 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.02 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.05 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.11 | 0.03 | 4.99 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 273

| Project / OCP Monitoring Station | Hingula OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------------------|------------|------------|---|---------------|
| | Gopalprasad Village Bore Well Water | | | Acceptable | Permissible |
| Dt. of sampling | 11-10-2018 | 14-11-2018 | 06-12-2018 | | |
| Colour (Hazen) | 3 | 3 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 2 | 5 | 1 | 5 |
| pH | 7.52 | 7.55 | 7.60 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 156 | 216 | 276 | 200 | 600 |
| Total Hardness (mg/l) | 204 | 168 | 200 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.19 | 0.08 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 42 | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 478 | 432 | 574 | 500 | 2000 |
| Calcium (mg/l) | 51.2 | 24.0 | 36.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.05 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.08 | 0.1 | 0.3 |
| Sulphate (mg/l) | 61.31 | 3.6 | 60.3 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.44 | 0.35 | 0.50 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | 0.005 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.10 | 0.07 | 1.33 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 274

| Project / OCP | Hingula OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-----------------------------|-------------------------------------|------------|------------|---|---------------|
| | Gopalprasad Village Bore Well Water | | | | |
| Monitoring Station | 08-01-2019 | 08-02-2019 | 12-03-2019 | Acceptable | Permissible |
| Dt. of sampling | 08-01-2019 | 08-02-2019 | 12-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 7 | 7 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 6 | 2 | 1 | 5 |
| pH | 7.59 | 6.43 | 7.57 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 52 | 148 | 56 | 200 | 600 |
| Total Hardness (mg/l) | 312 | 120 | 356 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.14 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 26 | 12 | 24 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 658 | 258 | 758 | 500 | 2000 |
| Calcium (mg/l) | 64.0 | 24.0 | 73.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.42 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 262.17 | 1.56 | 322.20 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.37 | 0.38 | 0.41 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.09 | 3.67 | 0.08 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 275

| Project / OCP Monitoring Station | Hingula OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---------------------------------|-------------------|-------------------|---|----------------------|
| | Kumunda Village Bore Well Water | | | Acceptable | Permissible |
| Dt. of sampling | 11-04-2018 | 10-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 9 | 2.0 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 10 | -- | 1 | 5 |
| pH | 7.54 | 7.65 | 7.26 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 28 | 44 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 256 | 576 | 260 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.10 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 50 | 122 | 82 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 420 | 849 | 414 | 500 | 2000 |
| Calcium (mg/l) | 72.14 | 60.92 | 43.29 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.05 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 14 | 46 | 206 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.32 | 0.72 | 0.59 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.15 | 0.03 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | <0.02 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 276

| Project / OCP Monitoring Station | Hingula OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---------------------------------|------------|------------|--|---------------|
| | Kumunda Village Bore Well Water | | | Acceptable | Permissible |
| Dt. of sampling | 12-07-2018 | 13-08-2018 | 12-09-2018 | | |
| Colour (Hazen) | 3 | 2 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 3 | 1 | 1 | 5 |
| pH | 7.10 | 7.49 | 7.11 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 212 | 448 | 284 | 200 | 600 |
| Total Hardness (mg/l) | 236 | 412 | 196 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.11 | 0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 46 | 118 | 86 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 579 | 1052 | 644 | 500 | 2000 |
| Calcium (mg/l) | 68.93 | 35.27 | 40.08 | 75 | 200 |
| Copper (mg/l) | 0.08 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | <0.02 | 0.07 | 0.1 | 0.3 |
| Sulphate (mg/l) | 15 | 71 | 3.74 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.31 | 0.34 | 0.63 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.02 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 277

| Project / OCP Monitoring Station | Hingula OCP Kumunda Village Bore Well Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|-------------------|-------------------|---|----------------------|
| | 11-10-2018 | 14-11-2018 | 06-12-2018 | Acceptable | Permissible |
| Dt. of sampling | 11-10-2018 | 14-11-2018 | 06-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 6 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 4 | 4 | 1 | 5 |
| pH | 7.50 | 7.25 | 7.79 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 204 | 208 | 296 | 200 | 600 |
| Total Hardness (mg/l) | 176 | 184 | 276 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.26 | 0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 68 | 80 | 94 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 482 | 476 | 678 | 500 | 2000 |
| Calcium (mg/l) | 80 | 24 | 48.0 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.05 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.03 | 0.10 | 0.1 | 0.3 |
| Sulphate (mg/l) | 3.93 | 1.4 | 2.1 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.37 | 0.39 | 0.43 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | <0.02 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 278

| Project / OCP | Hingula OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|----------------------------|---------------------------------|------------|------------|---|---------------|
| | Kumunda village bore well water | | | Acceptable | Permissible |
| Monitoring Station | 08-01-2019 | 08-02-2019 | 12-03-2019 | | |
| Dt. of sampling | 08-01-2019 | 08-02-2019 | 12-03-2019 | Acceptable | Permissible |
| Colour(Hazen) | 6 | 1 | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 1 | 6 | 2 | 1 | 5 |
| pH | 6.62 | 7.30 | 7.76 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 160 | 44 | 80 | 200 | 600 |
| Total Hardness(mg/L) | 204 | 292 | 100 | 200 | 600 |
| Iron(mg/L) | <0.06 | 0.12 | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 52 | 104 | 20 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 424 | 668 | 224 | 500 | 2000 |
| Calcium(mg/L) | 65.6 | 99.2 | 24 | 75 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese(mg/L) | 0.43 | 0.20 | <0.02 | 0.1 | 0.3 |
| Sulphate(mg/L) | 6.11 | 124.45 | 22.29 | 200 | 400 |
| Nitrate(mg/L) | <0.5 | 16.4 | <0.5 | 45 | No relaxation |
| Fluoride(mg/L) | 0.12 | 0.47 | <0.002 | 1 | 1.5 |
| Arsenic(mg/L) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | 0.98 | 2.78 | <0.02 | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium(mg/L) | <0.0005 | 0.0006 | <0.0005 | 0.003 | No relaxation |

Table: 279

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------------|------------|------------|---|---------------|
| | Danara Village Borewell Water | | | | |
| Dt. of sampling | 15-04-2018 | 10-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 7 | 2.0 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 9 | -- | 1 | 5 |
| pH | 8.02 | 7.39 | 7.92 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 20 | 12 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 176 | 152 | 144 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.08 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 70 | 58 | 78 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 334 | 300 | 388 | 500 | 2000 |
| Calcium (mg/l) | 33.67 | 16.03 | 17.64 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | 0.16 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 3 | 24 | 1.65 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.19 | 0.32 | 0.38 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.22 | 0.1 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 280

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------------|------------|------------|---|---------------|
| | Danara Village Borewell Water | | | | |
| Dt. of sampling | 12-07-2018 | 13-08-2018 | 12-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 2 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 5 | 1 | 1 | 5 |
| pH | 8.03 | 5.89 | 7.45 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 180 | 24 | 100 | 200 | 600 |
| Total Hardness (mg/l) | 168 | 48 | 100 | 200 | 600 |
| Iron (mg/l) | 0.07 | 0.28 | 0.29 | 0.3 | No relaxation |
| Chloride (mg/l) | 72 | 38 | 24 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 467 | 215 | 276 | 500 | 2000 |
| Calcium (mg/l) | 20.84 | 14.43 | 32.06 | 75 | 200 |
| Copper (mg/l) | 0.08 | 0.04 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.02 | 0.07 | 0.14 | 0.1 | 0.3 |
| Sulphate (mg/l) | 9 | 3.0 | 14.52 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.55 | 0.38 | 0.29 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.09 | 4.01 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 281

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------------|------------|------------|---|---------------|
| | Danara Village Borewell Water | | | | |
| Dt. of sampling | 11-10-2018 | 15-11-2018 | 05-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 3 | 7 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 4 | 5 | 1 | 5 |
| pH | 7.24 | 7.01 | 7.10 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 44 | 44 | 16 | 200 | 600 |
| Total Hardness (mg/l) | 68 | 60 | 48 | 200 | 600 |
| Iron (mg/l) | 0.07 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 22 | 38 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 154 | 190 | 232 | 500 | 2000 |
| Calcium (mg/l) | 17.6 | 16 | 14.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | 0.21 | 0.06 | 0.1 | 0.3 |
| Sulphate (mg/l) | 8.15 | 8.00 | 4.0 | 200 | 400 |
| Nitrate(mg/l) | 6.15 | 2.86 | 42.65 | 45 | No relaxation |
| Fluoride (mg/l) | 0.50 | 0.42 | 0.28 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.09 | 0.06 | 0.08 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 282

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------------|------------|------------|---|---------------|
| | Danara Village Borewell Water | | | | |
| Dt. of sampling | 08-01-2019 | 08-02-2019 | 12-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 3 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 12 | <1 | 2 | 1 | 5 |
| pH | 7.02 | 6.44 | 7.82 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 272 | 68 | 300 | 200 | 600 |
| Total Hardness (mg/l) | 220 | 424 | 236 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 26 | 62 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 30 | 552 | 608 | 500 | 2000 |
| Calcium (mg/l) | 38.4 | 84.8 | 35.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 58.2 | 322.39 | 7.43 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.37 | 0.48 | 0.74 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 1.7 | 0.17 | 0.07 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 283

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--------------------------|------------|------------|---|---------------|
| | Balaram Colony Tap Water | | | | |
| Dt. of sampling | 15-04-2018 | 11-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 9 | 1.0 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 9 | -- | 1 | 5 |
| pH | 8.34 | 7.86 | 7.05 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 12 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 180 | 204 | 228 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | 0.09 | 0.3 | No relaxation |
| Chloride (mg/l) | 42 | 30 | 102 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 306 | 550 | 466 | 500 | 2000 |
| Calcium (mg/l) | 62.52 | 109.02 | 48.10 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.06 | <0.02 | 0.03 | 0.1 | 0.3 |
| Sulphate (mg/l) | 3 | 185 | 2.56 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.26 | 0.44 | 0.61 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.02 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.03 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | 0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 284

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--------------------------|------------|------------|---|---------------|
| | Balaram Colony Tap Water | | | Acceptable | Permissible |
| Dt. of sampling | 12-07-2018 | 13-08-2018 | 12-09-2018 | | |
| Colour (Hazen) | 5 | 4 | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 3 | 1 | 1 | 5 |
| pH | 7.75 | 7.64 | 7.85 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 216 | 56 | 64 | 200 | 600 |
| Total Hardness (mg/l) | 168 | 232 | 240 | 200 | 600 |
| Iron (mg/l) | 0.12 | 0.15 | 0.07 | 0.3 | No relaxation |
| Chloride (mg/l) | 44 | 30 | 28 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 478 | 558 | 616 | 500 | 2000 |
| Calcium (mg/l) | 28.85 | 41.68 | 49.69 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | 0.03 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 9 | 180 | 258.06 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.43 | 0.40 | 0.56 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.04 | 0.07 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 285

| Project / OCP Monitoring Station | Balram OCP Balaram Colony Tap Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling 11-10-2018 | 15-11-2018 | 05-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 3 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 2 | 2 | 1 | 5 |
| pH | 7.57 | 7.12 | 7.73 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 44 | 56 | 200 | 600 |
| Total Hardness (mg/l) | 276 | 240 | 312 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.21 | 0.14 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 22 | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 486 | 502 | 674 | 500 | 2000 |
| Calcium (mg/l) | 57.6 | 49.6 | 64.0 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.04 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.02 | 0.03 | 0.1 | 0.3 |
| Sulphate (mg/l) | 161.90 | 193.60 | 262.8 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | 0.98 | 45 | No relaxation |
| Fluoride (mg/l) | 0.38 | 0.38 | 0.55 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.09 | 0.09 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 286

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--------------------------|------------|------------|---|---------------|
| | Balaram Colony Tap Water | | | | |
| Dt. of sampling | 08-01-2019 | 08-02-2019 | 12-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 10 | 7 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 6 | 5 | 1 | 5 |
| pH | 7.08 | 6.43 | 6.81 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 296 | 148 | 364 | 200 | 600 |
| Total Hardness (mg/l) | 264 | 120 | 324 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.14 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 92 | 12 | 136 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 656 | 258 | 832 | 500 | 2000 |
| Calcium (mg/l) | 49.6 | 24.0 | 44.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.42 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 1.1 | 1.56 | 7.74 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.15 | 0.38 | 0.48 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.30 | 3.67 | 0.51 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 287

| Project / OCP Monitoring Station | Balram OCP Nakeipasi Village Bore Well Water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|---|---------------|
| | Dt. of sampling 15-04-2018 | 10-05-2018 | 12-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 10 | 7.0 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 8 | -- | 1 | 5 |
| pH | 8.19 | 7.89 | 7.26 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 20 | 24 | 24 | 200 | 600 |
| Total Hardness (mg/l) | 376 | 60 | 260 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.09 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 38 | 40 | 82 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 656 | 185 | 414 | 500 | 2000 |
| Calcium (mg/l) | 70.54 | 49.70 | 43.29 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.19 | 0.05 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 152 | 11 | 206 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.21 | 0.38 | 0.59 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | 0.006 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.39 | <0.02 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | 0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 288

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | Nakeipasi Village Bore Well Water | | | Acceptable | Permissible |
| Dt. of sampling | 12-07-2018 | 13-08-2018 | 12-09-2018 | | |
| Colour (Hazen) | 4 | 3 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 2 | 1 | 1 | 5 |
| pH | 6.94 | 7.63 | 8.22 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 224 | 204 | 208 | 200 | 600 |
| Total Hardness (mg/l) | 212 | 204 | 160 | 200 | 600 |
| Iron (mg/l) | 0.13 | 0.11 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 80 | 52 | 52 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 551 | 519 | 436 | 500 | 2000 |
| Calcium (mg/l) | 27.25 | 38.48 | 38.47 | 75 | 200 |
| Copper (mg/l) | 0.09 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.02 | 0.06 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 4.0 | 22 | 21.12 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.43 | 0.54 | 0.61 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.06 | 0.09 | 0.05 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 289

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | Nakeipasi Village Bore Well Water | | | | |
| Dt. of sampling | 11-10-2018 | 15-11-2018 | 06-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 3 | 4 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 3 | 2 | 1 | 5 |
| pH | 7.94 | 6.85 | 7.14 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 212 | 208 | 212 | 200 | 600 |
| Total Hardness (mg/l) | 208 | 212 | 208 | 200 | 600 |
| Iron (mg/l) | 0.13 | 0.18 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 46 | 36 | 36 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 492 | 468 | 484 | 500 | 2000 |
| Calcium (mg/l) | 41.6 | 64.0 | 60.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.04 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.04 | 0.10 | 0.1 | 0.3 |
| Sulphate (mg/l) | 18.84 | 9.30 | 10.2 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.27 | 0.40 | 0.79 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.06 | <0.02 | 0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 290

| Project / OCP Monitoring Station | Balram OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | Nakeipasi Village Bore Well Water | | | | |
| Dt. of sampling | 08-01-2019 | 08-02-2019 | 12-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 12 | 1 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 6 | 1 | 1 | 5 |
| pH | 5.98 | 7.30 | 6.15 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 28 | 44 | 40 | 200 | 600 |
| Total Hardness (mg/l) | 60 | 292 | 132 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.12 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 48 | 104 | 60 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 188 | 668 | 436 | 500 | 2000 |
| Calcium (mg/l) | 19.2 | 99.2 | 41.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.07 | 0.20 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 1.3 | 124.45 | 28.17 | 200 | 400 |
| Nitrate(mg/l) | 19.04 | 16.4 | 68.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.19 | 0.47 | 1.23 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 1.9 | 2.78 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.0006 | <0.0005 | 0.003 | No relaxation |

Table: 291
Area: Talcher
Project: Talcher U/G

| Project / OCP Monitoring Station | Talcher U/G | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|------------------------------|------------|------------|---|---------------|
| | Canteen Tap-Water, GM Office | | | | |
| Dt. of sampling | 11-04-2018 | 11-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 6 | 2.0 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 9 | -- | 1 | 5 |
| pH | 7.59 | 7.75 | 7.58 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 8 | 8 | 200 | 600 |
| Total Hardness (mg/l) | 104 | 60 | 80 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.09 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 12 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 194 | 228 | 226 | 500 | 2000 |
| Calcium (mg/l) | 44.89 | 24.05 | 38.48 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 17 | 7 | 11.32 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.3 | 0.47 | 0.63 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | <0.02 | 0.09 | 5 | 15 |
| Total Chromium (mg/l) | 0.05 | 0.06 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 292

| Project / OCP Monitoring Station | Talcher U/G Canteen Tap-Water, GM Office | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|---|---------------|
| | Dt. of sampling | 13-07-2018 | 14-08-2018 | 13-09-2018 | Acceptable |
| Colour (Hazen) | 5 | 3 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 4 | 1 | 1 | 5 |
| pH | 7.67 | 6.94 | 6.60 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 72 | 44 | 20 | 200 | 600 |
| Total Hardness (mg/l) | 96 | 68 | 56 | 200 | 600 |
| Iron (mg/l) | 0.16 | 0.11 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 22 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 232 | 185 | 138 | 500 | 2000 |
| Calcium (mg/l) | 19.23 | 16.03 | 11.22 | 75 | 200 |
| Copper (mg/l) | 0.07 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.02 | 0.03 | 0.05 | 0.1 | 0.3 |
| Sulphate (mg/l) | 23 | 43 | 39.05 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.41 | 0.33 | 0.25 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.14 | 0.18 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 293

| Project / OCP Monitoring Station | Talcher U/G Canteen Tap-Water, GM Office | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---|------------|------------|---|---------------|
| | Dt. of sampling | 13-10-2018 | 16-11-2018 | 07-12-2018 | Acceptable |
| Colour (Hazen) | 4 | 4 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 3 | 2 | 1 | 5 |
| pH | 7.70 | 7.23 | 7.53 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 48 | 60 | 48 | 200 | 600 |
| Total Hardness (mg/l) | 96 | 76 | 52 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | 0.19 | 0.3 | No relaxation |
| Chloride (mg/l) | 14 | 14 | 12 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 204 | 170 | 176 | 500 | 2000 |
| Calcium (mg/l) | 30.4 | 17.6 | 11.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.04 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 34.59 | 16.5 | 37.6 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.29 | 0.32 | 0.39 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.07 | 0.16 | 0.16 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 294

| Project / OCP Monitoring Station | Talcher U/G | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|------------------------------|------------|------------|---|---------------|
| | Canteen Tap-Water, GM Office | | | | |
| Dt. of sampling | 16-01-2019 | 07-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 2 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | <1 | 2 | 1 | 5 |
| pH | 7.83 | 7.61 | 7.58 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 124 | 88 | 84 | 200 | 600 |
| Total Hardness (mg/l) | 152 | 112 | 104 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.12 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 32 | 18 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 350 | 244 | 230 | 500 | 2000 |
| Calcium (mg/l) | 35.2 | 25.6 | 25.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.04 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 39.9 | 27.04 | 23.06 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.32 | 0.45 | <0.002 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | 0.21 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | <0.02 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 295

| Project / OCP Monitoring Station | Talcher U/G Canteen Tap-Water, Talcher Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling 11-04-2018 | 11-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 8 | 7 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 9 | -- | 1 | 5 |
| pH | 8.02 | 7.63 | 7.55 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 12 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 92 | 136 | 120 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 12 | 28 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 210 | 189 | 220 | 500 | 2000 |
| Calcium (mg/l) | 52.91 | 22.44 | 36.87 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 27 | 7 | 16.69 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.34 | 0.52 | 0.51 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.07 | 0.02 | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.06 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 296

| Project / OCP Monitoring Station | Talcher U/G Canteen Tap-Water, Talcher Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling 13-07-2018 | 14-08-2018 | 13-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 2 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 3 | 2 | 1 | 5 |
| pH | 7.60 | 7.27 | 7.15 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 56 | 44 | 48 | 200 | 600 |
| Total Hardness (mg/l) | 64 | 76 | 76 | 200 | 600 |
| Iron (mg/l) | 0.09 | 0.18 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 24 | 26 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 170 | 199 | 194 | 500 | 2000 |
| Calcium (mg/l) | 16.03 | 9.62 | 17.63 | 75 | 200 |
| Copper (mg/l) | 0.07 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | 0.02 | 0.06 | 0.1 | 0.3 |
| Sulphate (mg/l) | 14 | 48 | 43.45 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.34 | 0.35 | 0.28 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.04 | 0.40 | 0.08 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 297

| Project / OCP Monitoring Station | Talcher U/G Canteen Tap-Water, Talcher Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling | 13-10-2018 | 16-11-2018 | 07-12-2018 | Acceptable |
| Colour (Hazen) | 3 | 2 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 1 | 3 | 1 | 5 |
| pH | 7.60 | 7.53 | 7.94 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 104 | 104 | 100 | 200 | 600 |
| Total Hardness (mg/l) | 136 | 120 | 116 | 200 | 600 |
| Iron (mg/l) | 0.07 | <0.06 | 0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 26 | 24 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 298 | 268 | 280 | 500 | 2000 |
| Calcium (mg/l) | 35.2 | 25.6 | 28.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.05 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 27.84 | 16.1 | 25.0 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.51 | 0.38 | 0.33 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.03 | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table:298

| Project / OCP Monitoring Station | Talcher U/G Canteen Tap-Water, Talcher Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling 16-01-2019 | 07-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 9 | 2 | 12 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | <1 | 4 | 1 | 5 |
| pH | 7.82 | 7.23 | 7.18 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 116 | 92 | 44 | 200 | 600 |
| Total Hardness (mg/l) | 80 | 100 | 164 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.15 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 14 | 20 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 236 | 268 | 342 | 500 | 2000 |
| Calcium (mg/l) | 19.2 | 25.6 | 40 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.11 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 18.317 | 25.83 | 107.87 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.15 | 0.63 | 0.19 | 1 | 1.5 |
| Selenium (mg/l) | | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | 0.05 | 0.05 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 299

| Project / OCP | Nandira U/G | | | Indian Drinking Standards (IS-10500):2012 | |
|-----------------------------|-------------------------------------|------------|------------|---|---------------|
| | Canteen Tap-Water, Nandira Colliery | | | | |
| Monitoring Station | 11-04-2018 | 10-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Dt. of sampling | 11-04-2018 | 10-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 10 | 3.0 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 11 | -- | 1 | 5 |
| pH | 7.38 | 7.73 | 7.58 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 8 | 12 | 8 | 200 | 600 |
| Total Hardness (mg/l) | 220 | 148 | 80 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.07 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 18 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 372 | 304 | 226 | 500 | 2000 |
| Calcium (mg/l) | 54.51 | 52.91 | 38.48 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.02 | <0.02 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 68 | 70 | 11.32 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.43 | 0.37 | 0.63 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.03 | 0.14 | 0.09 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 300

| Project / OCP Monitoring Station | Nandira U/G Canteen Tap-Water, Nandira Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling 13-07-2018 | 14-08-2018 | 12-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 3 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 3 | 1 | 1 | 5 |
| pH | 7.67 | 7.61 | 7.80 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 72 | 64 | 48 | 200 | 600 |
| Total Hardness (mg/l) | 96 | 144 | 164 | 200 | 600 |
| Iron (mg/l) | 0.16 | 0.13 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 22 | 28 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 232 | 397 | 350 | 500 | 2000 |
| Calcium (mg/l) | 19.23 | 30.46 | 35.27 | 75 | 200 |
| Copper (mg/l) | 0.07 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.02 | 0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 23 | 126 | 109.56 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.41 | 0.37 | 0.25 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.04 | 0.12 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 301

| Project / OCP Monitoring Station | Nandira U/G Canteen Tap-Water, Nandira Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|----------------------|
| | Dt. of sampling | 11-10-2018 | 16-11-2018 | 07-12-2018 | Acceptable |
| Colour (Hazen) | 2 | 4 | 3 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 3 | 2 | 1 | 5 |
| pH | 7.50 | 7.23 | 7.53 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 44 | 60 | 48 | 200 | 600 |
| Total Hardness (mg/l) | 184 | 76 | 52 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | 0.19 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 14 | 12 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 384 | 170 | 176 | 500 | 2000 |
| Calcium (mg/l) | 43.20 | 17.6 | 11.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.04 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 130.87 | 16.5 | 37.6 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.54 | 0.32 | 0.39 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.06 | 0.16 | 0.16 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 302

| Project / OCP Monitoring Station | Nandira U/G Canteen Tap-Water, Nandira Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling | 09-01-2019 | 08-02-2019 | 14-03-2019 | Acceptable |
| Colour (Hazen) | 13 | 11 | 10 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 1 | 5 | 1 | 5 |
| pH | 7.47 | 6.80 | 7.12 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 44 | 80 | 44 | 200 | 600 |
| Total Hardness (mg/l) | 156 | 188 | 172 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.11 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 24 | 20 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 334 | 474 | 344 | 500 | 2000 |
| Calcium (mg/l) | 38.4 | 46.4 | 38.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 106.96 | 115.26 | 106.47 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.13 | 0.62 | <0.002 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | 0.15 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.11 | 0.07 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 303

| Project / OCP Monitoring Station | Nandira U/G | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------------------|------------|------------|---|---------------|
| | Pit Top Tap Water, Nandira Colliery | | | | |
| Dt. of sampling | 11-04-2018 | 10-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 10 | 8.0 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 6 | 9 | -- | 1 | 5 |
| pH | 8.00 | 7.44 | 7.55 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 8 | 12 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 184 | 100 | 120 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.09 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 18 | 28 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 384 | 260 | 220 | 500 | 2000 |
| Calcium (mg/l) | 60.92 | 62.52 | 36.87 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 106 | 73 | 16.69 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.22 | 0.42 | 0.51 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.02 | 0.03 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 304

| Project / OCP Monitoring Station | Nandira U/G | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------------------|------------|------------|---|---------------|
| | Pit Top Tap Water, Nandira Colliery | | | | |
| Dt. of sampling | 13-07-2018 | 14-08-2018 | 12-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 3 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 3 | 1 | 1 | 5 |
| pH | 7.60 | 7.18 | 7.51 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 56 | 68 | 56 | 200 | 600 |
| Total Hardness (mg/l) | 64 | 144 | 148 | 200 | 600 |
| Iron (mg/l) | 0.09 | 0.11 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 24 | 26 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 170 | 378 | 372 | 500 | 2000 |
| Calcium (mg/l) | 16.03 | 33.67 | 38.47 | 75 | 200 |
| Copper (mg/l) | 0.07 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.03 | <0.02 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 14 | 134 | 108.68 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.34 | 0.36 | 0.31 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.04 | 0.02 | 0.07 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 305

| Project / OCP Monitoring Station | Nandira U/G Pit Top Tap Water, Nandira Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling 11-10-2018 | 16-11-2018 | 06-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 4 | 3 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 2 | 3 | 1 | 5 |
| pH | 6.95 | 7.29 | 7.58 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 40 | 44 | 32 | 200 | 600 |
| Total Hardness (mg/l) | 176 | 148 | 152 | 200 | 600 |
| Iron (mg/l) | 0.09 | 0.27 | 0.09 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 20 | 20 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 380 | 340 | 356 | 500 | 2000 |
| Calcium (mg/l) | 41.6 | 36.8 | 36.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.05 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.05 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 126.56 | 124.8 | 135 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.42 | 0.32 | 0.41 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.07 | 0.04 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 306

| Project / OCP Monitoring Station | Nandira U/G | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-------------------------------------|------------|------------|---|---------------|
| | Pit Top Tap Water, Nandira Colliery | | | | |
| Dt. of sampling | 09--01-19 | 08-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 4 | 7 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 8 | 1 | 1 | 5 |
| pH | 7.52 | 7.45 | 7.46 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 52 | 60 | 76 | 200 | 600 |
| Total Hardness (mg/l) | 160 | 168 | 96 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 14 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 346 | 348 | 216 | 500 | 2000 |
| Calcium (mg/l) | 28.8 | 35.2 | 24 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 112.43 | 118.04 | 23.52 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.10 | 0.62 | <0.002 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | 0.20 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.09 | 0.02 | 0.1 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 307

| Project / OCP Monitoring Station | Deulbera Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | Deulbera Manager Office Tap Water | | | | |
| Dt. of sampling | 11-04-2018 | 10-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 12 | 1.0 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 9 | -- | 1 | 5 |
| pH | 7.95 | 7.71 | 7.27 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 12 | 8 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 48 | 136 | 92 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 10 | 12 | 26 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 122 | 186 | 198 | 500 | 2000 |
| Calcium (mg/l) | 43.29 | 24.05 | 27.25 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 8 | 6 | 11.48 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.4 | 0.38 | 0.38 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.05 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 308

| Project / OCP Monitoring Station | Deulbera Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | Deulbera Manager Office Tap Water | | | | |
| Dt. of sampling | 13-07-2018 | 14-08-2018 | 13-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 3 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 3 | 1 | 1 | 5 |
| pH | 7.65 | 7.42 | 7.53 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 64 | 76 | 44 | 200 | 600 |
| Total Hardness (mg/l) | 64 | 104 | 76 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.12 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 20 | 30 | 22 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 192 | 297 | 198 | 500 | 2000 |
| Calcium (mg/l) | 19.24 | 27.25 | 17.63 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | 0.03 | 0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 20 | 58 | 41.69 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.28 | 0.28 | 0.41 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.27 | 0.23 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 309

| Project / OCP Monitoring Station | Deulbera Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | Deulbera Manager Office Tap Water | | | | |
| Dt. of sampling | 13-10-2018 | 16-11-2018 | 07-12-2018 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 4 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 3 | 4 | 1 | 5 |
| pH | 7.41 | 7.59 | 7.75 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 64 | 72 | 68 | 200 | 600 |
| Total Hardness (mg/l) | 144 | 100 | 82 | 200 | 600 |
| Iron (mg/l) | <0.06 | <0.06 | 0.13 | 0.3 | No relaxation |
| Chloride (mg/l) | 22 | 18 | 18 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 284 | 222 | 218 | 500 | 2000 |
| Calcium (mg/l) | 33.6 | 24 | 20.8 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.05 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.04 | 0.1 | 0.3 |
| Sulphate (mg/l) | 48.0 | 27.9 | 27.6 | 200 | 400 |
| Nitrate(mg/l) | 1.31 | 1.42 | 0.80 | 45 | No relaxation |
| Fluoride (mg/l) | 0.43 | 0.41 | 0.63 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.38 | 0.16 | 0.11 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | -- | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 310

| Project / OCP Monitoring Station | Deulbera Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|-----------------------------------|------------|------------|---|---------------|
| | Deulbera Manager Office Tap Water | | | | |
| Dt. of sampling | 09-01-2019 | 07-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 5 | 2 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | <1 | 1 | 1 | 5 |
| pH | 7.76 | 7.40 | 7.27 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 68 | 76 | 80 | 200 | 600 |
| Total Hardness (mg/l) | 80 | 92 | 128 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.08 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 18 | 16 | 36 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 192 | 224 | 302 | 500 | 2000 |
| Calcium (mg/l) | 25.6 | 20.8 | 35.2 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 20.6 | 28.43 | 45.19 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | 10.02 | 45 | No relaxation |
| Fluoride (mg/l) | 0.1 | 0.57 | <0.002 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | 0.13 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.22 | 0.18 | <0.002 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 311

| Project / OCP Monitoring Station | Handhidhua Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---------------------|------------|------------|---|---------------|
| | Pit top tap water | | | | |
| Dt. of sampling | 11-04-2018 | 10-05-2018 | 13-06-2018 | Acceptable | Permissible |
| Colour (Hazen) | 11 | 6.0 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 4 | 8 | | 1 | 5 |
| pH | 7.92 | 7.53 | 7.27 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 20 | 12 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 196 | 120 | 92 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.10 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 40 | 40 | 26 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 216 | 278 | 198 | 500 | 2000 |
| Calcium (mg/l) | 57.72 | 52.91 | 27.25 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 73 | 51 | 11.48 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.31 | 0.54 | 0.38 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.05 | 0.14 | 0.06 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | 0.06 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | 0.002 | <0.0005 | 0.003 | No relaxation |

Table: 312

| Project / OCP Monitoring Station | Handhidhua Colliery | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---------------------|------------|------------|---|---------------|
| | Pit top tap water | | | | |
| Dt. of sampling | 13-07-2018 | 14-08-2018 | 13-09-2018 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 4.0 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 3 | 1 | 1 | 5 |
| pH | 7.50 | 7.65 | 7.55 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 88 | 96 | 88 | 200 | 600 |
| Total Hardness (mg/l) | 132 | 144 | 120 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.12 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 42 | 40 | 40 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 364 | 356 | 398 | 500 | 2000 |
| Calcium (mg/l) | 38.48 | 43.29 | 30.46 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | 0.04 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 61 | 63 | 56.65 | 200 | 400 |
| Nitrate(mg/l) | -- | -- | -- | 45 | No relaxation |
| Fluoride (mg/l) | 0.26 | 0.34 | 0.25 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | <0.02 | 0.07 | 0.05 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.005 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | -- | -- | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 313

| Project / OCP Monitoring Station | Handhidhua Colliery Pit top tap water | | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|--|------------|------------|---|---------------|
| | Dt. of sampling | 13-10-2018 | 07-12-2018 | 09-01-2019 | Acceptable |
| Colour (Hazen) | 3 | 6 | 5 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 2 | 4 | 1 | 1 | 5 |
| pH | 7.53 | 7.76 | 7.68 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 84 | 88 | 84 | 200 | 600 |
| Total Hardness (mg/l) | 152 | 136 | 128 | 200 | 600 |
| Iron (mg/l) | <0.06 | 0.06 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 36 | 40 | 40 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 348 | 350 | 316 | 500 | 2000 |
| Calcium (mg/l) | 41.6 | 36.8 | 38.4 | 75 | 200 |
| Copper (mg/l) | <0.03 | 0.05 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | 0.04 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 50.62 | 55.5 | 48.57 | 200 | 400 |
| Nitrate(mg/l) | 14.42 | 11.69 | 9.45 | 45 | No relaxation |
| Fluoride (mg/l) | 0.39 | 0.63 | 0.15 | 1 | 1.5 |
| Selenium (mg/l) | -- | -- | -- | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.02 | 0.03 | <0.02 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | -- | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table: 314

| Project / OCP Monitoring Station | Handhidhua Colliery | | Indian Drinking Standards (IS-10500):2012 | |
|-------------------------------------|---------------------|------------|---|---------------|
| | Pit top tap water | | | |
| Dt. of sampling | 07-02-2019 | 14-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 2 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 5 | 1 | 1 | 5 |
| pH | 7.28 | 6.61 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/l) | 72 | 12 | 200 | 600 |
| Total Hardness (mg/l) | 88 | 388 | 200 | 600 |
| Iron (mg/l) | 0.10 | <0.06 | 0.3 | No relaxation |
| Chloride (mg/l) | 16 | 24 | 250 | 1000 |
| Total Dissolve Solid (mg/l) | 236 | 730 | 500 | 2000 |
| Calcium (mg/l) | 22.4 | 89.6 | 75 | 200 |
| Copper (mg/l) | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/l) | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/l) | 26.87 | 304.11 | 200 | 400 |
| Nitrate(mg/l) | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/l) | 0.61 | 0.37 | 1 | 1.5 |
| Selenium (mg/l) | -- | <0.002 | 0.01 | No relaxation |
| Arsenic (mg/l) | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead (mg/l) | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/l) | 0.13 | 0.09 | 5 | 15 |
| Total Chromium (mg/l) | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/l) | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/l) | <0.0005 | <0.0005 | 0.003 | No relaxation |

TABLES FOR PIEZOMETER WATER QUALITY DATA

Table:315
Area: Jagannath
Project: Jagannath OCP

| Project / OCP | Jagannath OCP | Indian Drinking Standards (IS-10500):2012 | |
|-----------------------------------|--|--|----------------------|
| Monitoring Station | MTP 04:Inside central nursery (beside golf hut), Jagannath area | Acceptable | Permissible |
| Dt. of sampling | 02-03-2019 | Acceptable | Permissible |
| Colour(Hazen) | 16 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 4 | 1 | 5 |
| pH | 6.70 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 52 | 200 | 600 |
| Total Hardness(mg/L) | 56 | 200 | 600 |
| Iron(mg/L) | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 14 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 136 | 500 | 2000 |
| Calcium(mg/L) | 14.4 | 75 | 200 |
| Copper(mg/L) | <0.03 | 0.05 | 1.5 |
| Manganese(mg/L) | 0.09 | 0.1 | 0.3 |
| Sulphate(mg/L) | 5.11 | 200 | 400 |
| Nitrate ((mg/L) | <0.5 | 45 | No relaxation |
| Fluoride(mg/L) | 0.81 | 1 | 1.5 |
| Arsenic(mg/L) | <0.002 | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | <0.02 | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | 0.5 | 1.0 |
| Cadmium(mg/L) | <0.0005 | 0.003 | No relaxation |

Table:316
Area: Jagannath
Project: Bhubaneswari OCP

| Project / OCP | Bhubaneswari OCP | | Indian Drinking Standards (IS-10500):2012 | |
|----------------------------|---|---|---|---------------|
| | MTP 08:Inside Chakaddal high school (Ekdal village) | MTP 07:BCML workshop (near northern edge of Bhubaneswari OCP) | | |
| Dt. of sampling | 02-03-2019 | 02-03-2019 | Acceptable | Permissible |
| Colour(Hazen) | 7 | 6 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 4 | 3 | 1 | 5 |
| pH | 7.95 | 7.74 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 144 | 216 | 200 | 600 |
| Total Hardness(mg/L) | 136 | 220 | 200 | 600 |
| Iron(mg/L) | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 30 | 206 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 334 | 652 | 500 | 2000 |
| Calcium(mg/L) | 41.6 | 60.8 | 75 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese(mg/L) | >0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate(mg/L) | 23.99 | 8.82 | 200 | 400 |
| Nitrate ((mg/L) | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride(mg/L) | 0.49 | 0.81 | 1 | 1.5 |
| Arsenic(mg/L) | <0.002 | <0.002 | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | <0.02 | <0.02 | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table:317
Area: Bharatpur
Project: Bharatpur OCP

| Project / OCP | Bharatpur OCP | | Indian Drinking Standards (IS-10500):2012 | |
|----------------------------|--------------------|--|---|---------------|
| | Monitoring Station | MTP 09:Inside the premises of Joragarhia Panchayat high school | | |
| Dt. of sampling | 02-03-2019 | 02-03-2019 | Acceptable | Permissible |
| Colour(Hazen) | 1 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 1 | 4 | 1 | 5 |
| pH | 7.02 | 6.67 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 36 | 72 | 200 | 600 |
| Total Hardness(mg/L) | 124 | 60 | 200 | 600 |
| Iron(mg/L) | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 70 | 12 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 408 | 148 | 500 | 2000 |
| Calcium(mg/L) | 36.8 | 19.2 | 75 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese(mg/L) | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate(mg/L) | 15.48 | 2.32 | 200 | 400 |
| Nitrate ((mg/L) | 46.8 | <0.5 | 45 | No relaxation |
| Fluoride(mg/L) | 0.34 | 0.3 | 1 | 1.5 |
| Arsenic(mg/L) | 0.002 | 0.002 | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | <0.02 | <0.02 | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table:308
Area: Bharatpur
Project: Chhendipada

| Project / OCP | Chhendipada | | | Indian Drinking Standards (IS-10500):2012 | |
|-----------------------------|--------------------|--|---|---|---------------|
| | Monitoring Station | MTP 22: Inside the premises of the abundant office of Junior Engineer (MI Section, Chhendipada) (in the safety zone of Chhendipada OCP) | MTP 23: Inside the premises of Veterinary hospital, Chhendipada | | |
| Dt. of sampling | 04-03-2019 | 04-03-2019 | 04-03-2019 | Acceptable | Permissible |
| Colour(Hazen) | 4 | 7 | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 3 | 6 | 4 | 1 | 5 |
| pH | 7.70 | 8.04 | 7.59 | 6.5-8.5 | No relaxation |
| Total Alkalinity (mg/L) | 96 | 292 | 224 | 200 | 600 |
| Total Hardness (mg/L) | 100 | 152 | 120 | 200 | 600 |
| Iron(mg/L) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 16 | 60 | 28 | 250 | 1000 |
| Total Dissolve Solid (mg/L) | 216 | 626 | 374 | 500 | 2000 |
| Calcium (mg/L) | 27.2 | 38.4 | 33.6 | 75 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/L) | 0.15 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate (mg/L) | 0.93 | 119.63 | 2.01 | 200 | 400 |
| Nitrate (mg/L) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride (mg/L) | 0.66 | 0.89 | 0.66 | 1 | 1.5 |
| Arsenic (mg/L) | 0.002 | 0.002 | 0.002 | 0.01 | 0.05 |
| Lead (mg/L) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc (mg/L) | <0.02 | <0.02 | <0.02 | 5 | 15 |
| Total Chromium (mg/L) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/L) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table:309
Area: Lingraj
Project: Lingraj OCP

| Project / OCP | Lingraj OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|----------------------------|--------------------|--|--|---|---------------|
| | Monitoring Station | MTP 01: Inside the premises of Mandapal hospital | MTP 02:Field workshop Lingaraj OCP (near field substation) | | |
| Dt. of sampling | 11-03-2019 | 01.03.2019 | 02-03-2019 | Acceptable | Permissible |
| Colour(Hazen) | 2 | Not found | 6 | 5 | 15 |
| Odour | Agreeable | | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 5 | | 5 | 1 | 5 |
| pH | 7.43 | | 7.10 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 344 | | 232 | 200 | 600 |
| Total Hardness(mg/L) | 180 | | 168 | 200 | 600 |
| Iron(mg/L) | 0.12 | | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 74 | | 52 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 603 | | 510 | 500 | 2000 |
| Calcium(mg/L) | 59.2 | | 81.6 | 75 | 200 |
| Copper(mg/L) | <0.03 | | <0.03 | 0.05 | 1.5 |
| Manganese(mg/L) | <0.02 | | 0.04 | 0.1 | 0.3 |
| Sulphate(mg/L) | 4.8 | | 16.1 | 200 | 400 |
| Nitrate ((mg/L) | <0.5 | | <0.5 | 45 | No relaxation |
| Fluoride(mg/L) | 0.87 | | 0.58 | 1 | 1.5 |
| Arsenic(mg/L) | <0.002 | | <0.002 | 0.01 | 0.05 |
| Lead(mg/L) | 0.005 | | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | <0.02 | | <0.02 | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | <0.2 | 0.5 | 1.0 | |
| Cadmium(mg/L) | <0.0005 | <0.0005 | 0.003 | No relaxation | |

Table:310
Area: Kaniha
Project: Kaniha OCP

| Project / OCP | Kaniha OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|------------------------------------|--------------------|---|--|---|----------------------|
| | Monitoring Station | MTP 18:Inside the premises of Chellia Prathamiki school | MTP 19: Outside Golaghar sahi primary school, Bijigol (school constructed by NTPC) | | |
| Dt. of sampling | 04-03-2019 | 04-03-2019 | 04-03-2019 | Acceptable | Permissible |
| Colour (Hazen) | 1 | 1 | 4 | 5 | 15 |
| Odour | Agreeable | Agreeable | 3 | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity (NTU) | 1 | 1 | 5.54 | 1 | 5 |
| pH | 6.03 | 7.55 | 12 | 6.5-8.5 | No relaxation |
| Total Alkalinity (mg/L) | 24 | 268 | 180 | 200 | 600 |
| Total Hardness (mg/L) | 104 | 212 | <0.06 | 200 | 600 |
| Iron (mg/L) | <0.06 | <0.06 | 90 | 0.3 | No relaxation |
| Chloride (mg/L) | 44 | 52 | 666 | 250 | 1000 |
| Total Dissolve Solid (mg/L) | 364 | 592 | 56 | 500 | 2000 |
| Calcium (mg/L) | 28.8 | 67.2 | <0.03 | 75 | 200 |
| Copper (mg/L) | <0.03 | <0.03 | 0.07 | 0.05 | 1.5 |
| Manganese (mg/L) | <0.02 | <0.02 | 4.18 | 0.1 | 0.3 |
| Sulphate (mg/L) | 2.48 | 29.09 | 80.1 | 200 | 400 |
| Nitrate (mg/L) | 35.4 | 10.98 | 0.19 | 45 | No relaxation |
| Fluoride (mg/L) | 0.18 | 0.45 | <0.002 | 1 | 1.5 |
| Arsenic (mg/L) | <0.002 | 0.002 | <0.005 | 0.01 | 0.05 |
| Lead (mg/L) | <0.005 | <0.005 | <0.02 | 0.01 | No relaxation |
| Zinc (mg/L) | <0.02 | <0.02 | <0.05 | 5 | 15 |
| Total Chromium (mg/L) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron (mg/L) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/L) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table:311
Area: Hingula
Project: Balram OCP

| Project / OCP | Balram OCP | | | | Indian Drinking Standards (IS-10500):2012 | |
|-----------------------------------|--------------------|--|---|---|---|----------------------|
| | Monitoring Station | MTP 10: Inside the premises of Danara high school | MTP 12:In Betianalli village, opposite to Sindhu deori's house | MTP 13: Inside the premises of Ambapal Natarha high school | | |
| Dt. of sampling | 03-03-2019 | 03-03-2019 | 03-03-2019 | 0203-2019 | Acceptable | Permissible |
| Colour(Hazen) | 2 | 9 | 4 | 8 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 1 | 4 | 1 | 1 | 1 | 5 |
| pH | 5.77 | 5.81 | 6.24 | 6.17 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 16 | 24 | 32 | 40 | 200 | 600 |
| Total Hardness(mg/L) | 60 | 28 | 84 | 48 | 200 | 600 |
| Iron(mg/L) | <0.06 | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 36 | 28 | 18 | 24 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 288 | 216 | 188 | 186 | 500 | 2000 |
| Calcium(mg/L) | 16.0 | 9.6 | 14.4 | 14.4 | 75 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese(mg/L) | <0.02 | 0.15 | <0.02 | 0.04 | 0.1 | 0.3 |
| Sulphate(mg/L) | 2.94 | 2.94 | 1.24 | 3.4 | 200 | 400 |
| Nitrate ((mg/L) | <0.5 | 25.1 | <0.5 | 14.24 | 45 | No relaxation |
| Fluoride(mg/L) | 0.15 | 0.16 | 0.72 | 0.14 | 1 | 1.5 |
| Arsenic(mg/L) | 0.002 | 0.002 | 0.002 | <0.002 | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | 0.04 | <0.02 | <0.02 | <0.02 | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium(mg/L) | <0.0005 | <0.0005 | <0.0005 | <0.005 | 0.003 | No relaxation |

Table:312
Area: Hingula
Project: Hingula OCP

| Project / OCP | Hingula OCP | | | Indian Drinking Standards (IS-10500):2012 | |
|----------------------------|--|---|--|---|---------------|
| | MTP 14: Inside the premises of Pirakhamam village primary school | MTP 15: Beside Sujan Pradhan's house in Chottaberani village, near nalla. | MTP 16: Backside of Hingula Mandir VIP guest house | | |
| Dt. of sampling | 03-03-2019 | 03-03-2019 | 03-03-2019 | Acceptable | Permissible |
| Colour(Hazen) | 5 | 2 | 2 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 6 | 1 | 5 | 1 | 5 |
| pH | 6.25 | 7.34 | 7.96 | 6.5-8.5 | No relaxation |
| Total Alkalinity (mg/L) | 56 | 512 | 192 | 200 | 600 |
| Total Hardness (mg/L) | 64 | 372 | 92 | 200 | 600 |
| Iron(mg/L) | <0.06 | <0.06 | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 22 | 254 | 46 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 162 | 1140 | 358 | 500 | 2000 |
| Calcium(mg/L) | 14.4 | 73.6 | 22.4 | 75 | 200 |
| Copper(mg/L) | <0.03 | <0.03 | <0.03 | 0.05 | 1.5 |
| Manganese (mg/L) | <0.02 | <0.02 | <0.02 | 0.1 | 0.3 |
| Sulphate(mg/L) | 1.08 | 1.55 | 0.62 | 200 | 400 |
| Nitrate ((mg/L) | <0.5 | <0.5 | <0.5 | 45 | No relaxation |
| Fluoride(mg/L) | 0.53 | 0.3 | 0.58 | 1 | 1.5 |
| Arsenic(mg/L) | 0.002 | 0.002 | <0.002 | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | <0.005 | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | <0.02 | 0.22 | <0.02 | 5 | 15 |
| Total Chromium (mg/L) | <0.05 | <0.05 | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | <0.2 | <0.2 | 0.5 | 1.0 |
| Cadmium (mg/L) | <0.0005 | <0.0005 | <0.0005 | 0.003 | No relaxation |

Table:313
Area:Talcher
Project: Handhidhua colliery

| Project / OCP | Handhidhua colliery | Indian Drinking Standards (IS-10500):2012 | |
|-----------------------------------|--|--|--------------------|
| Monitoring Station | MTP 03:Near Handidua level crossing | | |
| Dt. of sampling | 02-03-2019 | Acceptable | Permissible |
| Colour(Hazen) | 1 | 5 | 15 |
| Odour | Agreeable | Agreeable | Agreeable |
| Taste | Agreeable | Agreeable | Agreeable |
| Turbidity(NTU) | 1 | 1 | 5 |
| pH | 6.25 | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 52 | 200 | 600 |
| Total Hardness(mg/L) | 152 | 200 | 600 |
| Iron(mg/L) | <0.06 | 0.3 | No relaxation |
| Chloride(mg/L) | 114 | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 396 | 500 | 2000 |
| Calcium(mg/L) | 44.8 | 75 | 200 |
| Copper(mg/L) | <0.03 | 0.05 | 1.5 |
| Manganese (mg/L) | 0.21 | 0.1 | 0.3 |
| Sulphate(mg/L) | 9.13 | 200 | 400 |
| Nitrate ((mg/L) | 3.48 | 45 | No relaxation |
| Fluoride(mg/L) | | 1 | 1.5 |
| Arsenic(mg/L) | <0.002 | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | 0.01 | No relaxation |
| Zinc(mg/L) | <0.02 | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | 0.5 | 1.0 |
| Cadmium(mg/L) | <0.0005 | 0.003 | No relaxation |

Table:314
Area:Talcher
Project: Nandira U/G

| Project / OCP | Nandira U/G | | Indian Drinking Standards (IS-10500):2012 | |
|----------------------------|--------------------|--|---|---------------|
| | Monitoring Station | MTP 11: Inside the premises of Hingula area office | Acceptable | Permissible |
| Dt. of sampling | 03-03-2019 | | | |
| Colour(Hazen) | 2 | | 5 | 15 |
| Odour | Agreeable | | Agreeable | Agreeable |
| Taste | Agreeable | | Agreeable | Agreeable |
| Turbidity(NTU) | 1 | | 1 | 5 |
| pH | 7.67 | | 6.5-8.5 | No relaxation |
| Total Alkalinity(mg/L) | 408 | | 200 | 600 |
| Total Hardness(mg/L) | 208 | | 200 | 600 |
| Iron(mg/L) | <0.06 | | 0.3 | No relaxation |
| Chloride(mg/L) | 96 | | 250 | 1000 |
| Total Dissolve Solid(mg/L) | 724 | | 500 | 2000 |
| Calcium(mg/L) | 67.2 | | 75 | 200 |
| Copper(mg/L) | <0.03 | | 0.05 | 1.5 |
| Manganese(mg/L) | <0.02 | | 0.1 | 0.3 |
| Sulphate(mg/L) | 10.68 | | 200 | 400 |
| Nitrate ((mg/L) | 1.92 | | 45 | No relaxation |
| Fluoride(mg/L) | 0.46 | | 1 | 1.5 |
| Arsenic(mg/L) | <0.002 | | 0.01 | 0.05 |
| Lead(mg/L) | <0.005 | | 0.01 | No relaxation |
| Zinc(mg/L) | <0.02 | | 5 | 15 |
| Total Chromium(mg/L) | <0.05 | | 0.05 | No relaxation |
| Boron(mg/L) | <0.2 | | 0.5 | 1.0 |
| Cadmium(mg/L) | <0.0005 | | 0.003 | No relaxation |