# ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

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CIN No.: U28900MH1995PTC093129

B - 1003, Enviro House, 10th Flr., Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066
Tel.: +91 22 2854 1647 / 48 / 49 / 67 / 68 E-mail : info@eaepl.com Website : www.eaepl.com


## Ambient Air Quality Monitoring Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-01/01/2018** | | | **Report Date – 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | **Reference** – Work order dated 28.03.2016 |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokharan Road No. 2, Manpada, Thane. | | |
| **Nature and Description of Sample** | Ambient Air | **Sample Collected by** | EAEPL Laboratory |
| **Sampling locations and Sample Code** | 1) PM/A/20-01/a,b/01/18 (Main Gate) | **Sample quantity and packing** | $PM_{10}$ = 1 * 1 No. Filter paper.<br>$PM_{2.5}$ = 1 * 1 No. Filter paper.<br>SOx = 1 * 1 No. PVC bottle.<br>NOx = 1 * 1 No. PVC bottle. |
| | | **Preservation** | Filter papers – Transported and stored in desiccator.<br>PVC bottles - Transported and stored at 5°C (±1 °C). |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | 20.01.2018 |
| **Sampling Procedure** | CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP. | | |
| **Period of Analysis** | 20.01.2018 to 27.01.2018 | | |
| **Report for the month** | January, 2018 | | |

| **Environmental Conditions** | | |
|---|---|---|
| **Ambient air Temperature (°C)** | **Relative humidity (%)** | **Duration of Monitoring** |
| 26.0 | 57.0 | 8 Hours |

**RESULTS**

| **Monitoring Locations** | Main Gate | **NAAQS LIMITS** | **METHOD** |
|---|---|---|---|
| **Pollution Parameters** | PM/A/20-01/a,b/01/18 | | |
| *R.S.P.M ($PM_{10}$)* ( $\mu g/m^3$) | 38.67 | 100 $\mu g/m^3$ | Gravimetric |
| *R.S.P.M ($PM_{2.5}$)* ( $\mu g/m^3$) | 13.72 | 60 $\mu g/m^3$ | Gravimetric |
| *$SO_2$* ($\mu g/m^3$) | 14.59 | 80 $\mu g/m^3$ | Improved West & Gaeke method |
| *NOx* ( $\mu g/m^3$) | 17.56 | 80 $\mu g/m^3$ | Modified Jacob & Hochheiser (Na- Arsenite) |

**Remark:** All the measured values are within NAAQS limit.

----------End----------

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

Lab Incharge

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## Water Sample Analysis Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-02/01/2018** | | | **Report Date – 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokharan Road No. 2, Manpada, Thane. | | **Reference** – Work order dated 28:03.2016 |
| **Nature and Description of Sample** | Tanker Water | **Sample Collected by** | EAEPL Laboratory |
| **Sampling locations and Sample Code** | 1) PM/W/20-02/01/18 (Tanker Water) | **Sample quantity and packing** | 2 L X 1 No. PVC Can. |
| | | **Preservation** | Cool -Transported and stored at 5 °C (± 1°C). |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | 20.01.2018 |
| **Sampling Procedure** | Guideline for water quality monitoring- CPCB, 2007-08. | | |
| **Period of Analysis** | 20.01.2018 to 27.01.2018 | | |
| **Report for the month** | January, 2018 | | |

| Parameters | Unit | Results | IS 10500:2012 Limits | | Method |
|---|---|---|---|---|---|
| | | | Acceptable Limit | Permissible Limit | |
| pH | - | 7.31 | 6.5-8.5 | No Relaxation | IS 3025 (Part 11) (1983) |
| TDS | mg / l | 351.09 | 500 | 2000 | IS 3025 (Part16) (1984) |
| Turbidity | NTU | 0.05 | 1 | 5 | IS 3025 (Part 10) (1984) |
| Chlorides as Cl | mg / l | 79.98 | 250 | 1000 | IS 3025 (Part 32) (1988) |
| Total Hardness | mg / l | 190.00 | 200 | 600 | IS 3025 (Part 29) (2009) |
| Calcium | mg / l | 46.09 | 75 | 200 | IS 3025 (Part 40) (1991) |
| Residual chlorine | mg / l | < 0.20 | 0.20 | 1 | IS 3025 part 26 (1986) |
| Alkalinity | mg / l | 55.00 | 200 | 600 | IS: 3025 (Part 23) (1986) |
| Dissolved Oxygen | mg / l | 4.80 | - | - | IS3025 part 38 (1989) |
| Sulphate | mg / l | 22.70 | 200 | 400 | IS3025 part24 (1986) |
| Nitrate | mg / l | 1.18 | 45 | No Relaxation | EPA 352.1 |
| Fluoride | mg / l | 0.40 | 1 | 1.5 | IS 3025 (Part 60) (2008) |
| **Heavy Metals** | | | | | |
| Iron (Fe) | mg / l | 0.198 | 0.3 | No Relaxation | IS 3025 (Part 53) (2003) |
| Copper (Cu) | mg / l | 0.041 | 0.05 | 1.5 | IS 3025 (Part 42) 1992 Reaffirmed (2003) |
| Zinc (Zn) | mg / l | 0.071 | 5 | 15 | IS 3025 (Part 49) 1994 Reaffirmed (2003) |
| Lead (Pb) | mg / l | 0.001 | 0.01 | No Relaxation | IS 3025 (Part 47) 1994 Reaffirmed (2003) |
| Chromium (Cr) | mg / l | 0.019 | 0.05 | No Relaxation | APHA 3111 (22nd Edition) |
| **Microbiological Analysis** | | | | | |
| Total Coliform | MPN/100ml | 3.00 | Nil | Shall not be detectable in any 100ml sample | IS 1622:1981 Reaffirmed (1996) |
| *E coli* | MPN/100ml | Absent | Absent | Absent | IS 1622:1981 Reaffirmed (1996) |

----------End----------

**For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,**

**Lab Incharge**

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## Soil Sample Analysis Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-03/01/2018** | | | **Report Date - 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | **Reference –** Work order dated 28.03.2016 |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane. | | |
| **Nature and Description of Sample** | Soil | **Sample Collected by** | EAEPL Laboratory |
| **Sampling locations and Sample Code** | 1) PM/S/20-03/01/18 | **Sample quantity and packing** | 500 gm X 1 zip lock bag |
| | | **Preservation** | Transported & Stored in dry area |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | 20.01.2018 |
| **Sampling Procedure** | Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-076. December 1984. | | |
| **Period of Analysis** | 20.01.2018 to 27.01.2018 | | |
| **Report for the month** | January, 2018 | | |

| Parameters | Unit | PM/S/20-03/01/18 | Methods |
|---|---|---|---|
| pH | - | 7.47 | As per manual |
| EC | µS/cm | 241.35 | As per manual |
| Soil Moisture | % | 16.66 | Maiti, pg. no. - 153 |
| Water Holding Capacity | % | 33.74 | Ex.16. Text Book By S. Anand Net Port-80 |
| Total Kjeldhal Nitrogen | % | 0.77 | Maiti, pg.no. - 171 |
| Organic Matter | % | 2.93 | Maiti, pg.no. - 168 |
| Chlorides | mg/100gm | 10.01 | Goal, pg. no. - 100 |
| Calcium | mg/100gm | 146.57 | Goal, pg. no.- 110 |
| Magnesium | mg/100gm | 36.32 | Goal, pg. no.- 110 |
| Sulphate | mg/100gm | 17.40 | Goal, pg. no.- 101 |
| Available Phosphorus | mg/100gm | 12.00 | Goal, pg. no. 102 |
| Sodium (Na) | ppm | 27.84 | Maiti, pg. no.- 188 |
| Potassium (K) | ppm | 29.46 | Maiti, pg. no.- 188 |
| **Heavy Metals:** | | | |
| Copper | ppm | 1.79 | Maiti, pg. no. 188 |
| Iron | ppm | 712.89 | Maiti, pg. no. 188 |
| Lead | ppm | 1.24 | Maiti, pg. no. 188 |
| Zinc | ppm | 1.21 | Maiti, pg. no. 188 |

----------End----------

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,

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## Ambient Noise Level Monitoring Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-04/01/2018** | | | **Report Date – 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | **Reference –** Work order dated 28.03.2016 |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokharan Road No. 2, Manpada, Thane. | | |
| **Nature and Description of Sample** | Noise | **Sample Collected by** | EAEPL Laboratory |
| **Sampling locations and Sample Code** | 1) PM/N/20-04/01/18 | **Sample quantity and packing** | Not Applicable |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | Not Applicable |
| **Sampling Procedure** | Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010. | | |
| **Period of Analysis** | Not Applicable | | |
| **Report for the month** | January, 2018 | | |

| Monitoring Locations | Units | Results | | CPCB Norms | |
|---|---|---|---|---|---|
| | | Day Time | Night Time | Day | Night |
| Near main gate | dB(A) Leq. | **59.5** | **46.7** | 55 | 45 |
| Centre side | dB(A) Leq. | **58.2** | **45.2** | 55 | 45 |
| Back side | dB(A) Leq. | **57.2** | 44.6 | 55 | 45 |
| Near Site Office | dB(A) Leq. | **58.5** | **45.1** | 55 | 45 |

**Remark:** The noise level was observed to be higher than CPCB limit at all locations.

----------End----------

**For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,**

**Lab Incharge**

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## Water Sample Analysis Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-02A/01/2018** | | | **Report Date – 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | **Reference –** Work order dated 28.03.2016 |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane. | | |
| **Nature and Description of Sample** | Waste Water | **Sample Collected by** | EAEPL Laboratory |
| **Sampling locations and Sample Code** | 1) STP Inlet **(PM/W/20-02A/01/18)**<br>2) STP Outlet **(PM/W/20-02B/01/18)** | **Sample quantity and packing** | 1 L* 2 No. PVC Can. |
| | | **Preservation** | Cool -Transported and stored at 5°C (± 1°C) |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | 20.01.2018 |
| **Sampling Procedure** | Guideline for water quality monitoring- CPCB, 2007-08. | | |
| **Period of Analysis** | 20.01.2018 to 27.01.2018 | | |
| **Report for the month** | January, 2018 | | |

| Parameters | Unit | Results | | CPCB Limits | Method |
|---|---|---|---|---|---|
| | | PM/W/20-02A/01/18 | PM/W/20-02B/01/18 | | |
| pH | - | 6.98 | 7.63 | 6.5 to 9.0 | IS 3025 (Part 11) (1983) |
| TSS | mg / l | 12.00 | 4.00 | Not more than 20 | IS 3025 (Part 17) (1984) |
| BOD | mg / l | 132.00 | **16.00** | Not more than 10 | IS 3025 part 44 (1993 Reaffirmed 2003) |
| COD | mg / l | 436.18 | 42.00 | Not more than 50 | IS 3025 (Part 58) (2006) |

----------End----------

**For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,**

**Lab Incharge**

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## Stack Emission Analysis Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-05/01/2018** | | | **Report Date – 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane. | | **Reference-** Work Order dated 28.03.2016 |
| **Nature and Description of Sample** | Stack | **Sample Collected by** | EAEPL Laboratory. |
| **Sampling locations and Sample Code** | 1) DG Set 1 (125 KVA) (PM/SE/20-05/01/18) | **Sample quantity and packing** | 100 ml X 1 No. PVC bottle. TPM = 1 X 1 No. Filter paper. |
| | | **Preservation** | Cool - Transported and stored at 5 °C (± 1°C) |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | 20.01.2018 |
| **Sampling Procedure** | Indian Standard Method for measurement of emissions from stationary sources, 11255 (Part- 1 & 2) | | |
| **Period of Analysis** | 20.01.2018 to 27.01.2018 | | |
| **Report for the month** | January, 2018 | | |

| Sr. No. | Particulars | Stack Details | Limits |
|---|---|---|---|
| 1 | Stack attached to | DG Set | - |
| 2 | Type of Fuel | Diesel | - |
| 3 | Temp. of Flue Gas | 113 °C | - |
| 4 | Flue Gas Velocity | 13.08 m/sec | - |
| 5 | Total Particulate Matter (TPM) | 3.20 mg/$Nm^3$ | 150 mg/$Nm^3$ |
| 6 | Sulphur Dioxide ($SO_2$) | 2.22 kg/day | 5.0 kg/day |

----------End----------

**For M/S. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,**

**Lab Incharge**

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## Stack Emission Analysis Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-06/01/2018** | | | **Report Date – 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | **Reference-** Work Order dated 28.03.2016 |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane. | | |
| **Nature and Description of Sample** | Stack | **Sample Collected by** | EAEPL Laboratory. |
| **Sampling locations and Sample Code** | 2) DG Set 2 (125 KVA) **(PM/SE/20-06/01/18)** | **Sample quantity and packing** | 100 ml X 1 No. PVC bottle. TPM = 1 X 1 No. Filter paper. |
| | | **Preservation** | Cool - Transported and stored at 5 °C (± 1°C) |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | 20.01.2018 |
| **Sampling Procedure** | Indian Standard Method for measurement of emissions from stationary sources, 11255 (Part- 1 & 2) | | |
| **Period of Analysis** | 20.01.2018 to 27.01.2018 | | |
| **Report for the month** | January, 2018 | | |

| Sr. No. | Particulars | Stack Details | Limits |
|---|---|---|---|
| 1 | Stack attached to | DG Set | - |
| 2 | Type of Fuel | Diesel | - |
| 3 | Temp. of Flue Gas | 120 °C | - |
| 4 | Flue Gas Velocity | 13.16 m/sec | - |
| 5 | Total Particulate Matter (TPM) | 3.32 mg/$Nm^3$ | 150 mg/$Nm^3$ |
| 6 | Sulphur Dioxide ($SO_2$) | 2.00 kg/day | 5.0 kg/day |

----------End----------

**For M/S. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,**

**Lab Incharge**

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## Stack Emission Analysis Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-07/01/2018** | | | **Report Date – 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane. | | **Reference-** Work Order dated 28.03.2016 |
| **Nature and Description of Sample** | Stack | **Sample Collected by** | EAEPL Laboratory. |
| **Sampling locations and Sample Code** | 3) DG Set 3 (125 KVA) **(PM/SE/20-07/01/18)** | **Sample quantity and packing** | 100 ml X 1 No. PVC bottle. TPM = 1 X 1 No. Filter paper. |
| | | **Preservation** | Cool - Transported and stored at 5 °C (± 1°C) |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | 20.01.2018 |
| **Sampling Procedure** | Indian Standard Method for measurement of emissions from stationary sources, 11255 (Part- 1 & 2) | | |
| **Period of Analysis** | 20.01.2018 to 27.01.2018 | | |
| **Report for the month** | January, 2018 | | |

| Sr. No. | Particulars | Stack Details | Limits |
|---|---|---|---|
| 1 | Stack attached to | DG Set | - |
| 2 | Type of Fuel | Diesel | - |
| 3 | Temp. of Flue Gas | 105 °C | - |
| 4 | Flue Gas Velocity | 12.86 m/sec | - |
| 5 | Total Particulate Matter (TPM) | 3.12 mg/$Nm^3$ | 150 mg/$Nm^3$ |
| 6 | Sulphur Dioxide ($SO_2$) | 2.18 kg/day | 5.0 kg/day |

----------End----------

**For M/S. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,**

**Lab Incharge**

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.

# ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

NABET Accredited & MoEF (Govt. of India) approved

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## Stack Emission Analysis Report

| | | | |
|---|---|---|---|
| **Report No. - EAEPL/PM/ACPL/20-08/01/2018** | | | **Report Date – 27.01.2018** |
| **Name of Customer** | **M/s. ASCENT CONSTRUCTION PVT. LTD.** | | |
| **Site Address** | "ACME OZONE" Gut No. 61/1 & 61/2, off Glady Alwares Road, Pokhran Road No. 2, Manpada. Thane. | | **Reference-** Work Order dated 28.03.2016 |
| **Nature and Description of Sample** | Stack | **Sample Collected by** | EAEPL Laboratory. |
| **Sampling locations and Sample Code** | 4) DG Set 4 (125 KVA) **(PM/SE/20-08/01/18)** | **Sample quantity and packing** | 100 ml X 1 No. PVC bottle. TPM = 1 X 1 No. Filter paper. |
| | | **Preservation** | Cool - Transported and stored at 5 °C (± 1°C) |
| **Date of Sampling** | 19.01.2018 | **Date of Receipt** | 20.01.2018 |
| **Sampling Procedure** | Indian Standard Method for measurement of emissions from stationary sources, 11255 (Part- 1 & 2) | | |
| **Period of Analysis** | 20.01.2018 to 27.01.2018 | | |
| **Report for the month** | January, 2018 | | |

| Sr. No. | Particulars | Stack Details | Limits |
|---|---|---|---|
| 1 | Stack attached to | DG Set | - |
| 2 | Type of Fuel | Diesel | - |
| 3 | Temp. of Flue Gas | 111 °C | - |
| 4 | Flue Gas Velocity | 12.42 m/sec | - |
| 5 | Total Particulate Matter (TPM) | 3.26 mg/Nm$^3$ | 150 mg/Nm$^3$ |
| 6 | Sulphur Dioxide ($SO_2$) | 2.08 kg/day | 5.0 kg/day |

----------End----------

**For M/S. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.,**

**Lab Incharge**

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).
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