



ENVIROCHECK

LABORATORY ACCREDITED BY NABL



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AMBIENT AIR ANALYSIS REPORT

ANNEXURE - 2

| | | |
|----|-----------------------|---|
| 1. | Name of the Industry | : Foundry Cluster Development Association (F.C.D.A) |
| 2. | Address | : Domjur, Amta Road, Howrah |
| 3. | Date of sampling | : 16.09.2016 – 17.09.2016 |
| 4. | Report No. | : 31/EC/Sep./TR(A)/I/16-17 |
| 5. | Analysis completed on | : 01.10.2016 |
| 6. | Reporting Date | : 05.10.2016 |
| 7. | Particular of Plant | : Foundry Park |

A] GENERAL INFORMATION

| | | |
|----|----------------------|-------------------------------------|
| 1. | Location of Sampling | : Near Office |
| 2. | Duration of Sampling | : 24 hrs. (11:00 a.m. – 11:00 a.m.) |

B] METEOROLOGICAL INFORMATION

| | | |
|----|--------------------------------|-----------------------|
| 1. | Average Temperature (°C) | : 34.0 |
| 2. | Average Relative Humidity (%) | : 75.0 |
| 3. | Barometric Pressure (mm of Hg) | : 757.0 |
| 4. | Smell or Odour | : No Remarkable Smell |
| 5. | Weather Condition | : Clear sky |

C] RESULTS

| SL. NO. | PARAMETERS | METHOD NO. | RESULTS | LIMIT* |
|---------|---|--|----------|--------|
| 1. | Concentration of PM _{2.5} (µg/m ³) | USEPA 1997a, 40 CFR Part 50, Appendix L | : 49.20 | 60.0 |
| 2. | Concentration of PM ₁₀ (µg/m ³) | IS 5182 (Part 23) | : 89.28 | 100.0 |
| 3. | Concentration of SO ₂ (µg/m ³) | IS 5182 (Part 2) & ASTM D 2914-01 | : 6.07 | 80.0 |
| 4. | Concentration of NO _x (µg/m ³) | IS 5182 (Part 6) & ASTM D 1607-91 | : 24.98 | 80.0 |
| 5. | Concentration of CO (mg/m ³) | IS 5182 (Part 10) & ASTM D 3162-94 | : 0.46 | 2.0 |
| 6. | Concentration of Pb (µg/m ³) | IS 5182 (Part 22) & ASTM D 4185-06 | : <0.01 | 1.0 |
| 7. | Benzo (a) Pyrene (BaP) (ng/m ³) | IS 5182 (Part 12) 2004 & ASTM D 6209-98 | : <0.36 | 1.0 |
| 8. | Benzene (C ₆ H ₆) (µg/m ³) | IS 5182 (Part 11) 2006 & ASTM D 5466-01 | : <0.74 | 5.0 |
| 9. | Ozone (O ₃) (µg/m ³) | IS 5182 (Part-IX) | : <10.0 | 180.0 |
| 10. | Ammonia (NH ₃) (µg/m ³) | NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015 | : <150.0 | 400.0 |
| 11. | Nickel (Ni) (ng/m ³) | IS 5182 (Part-22) 2004 & ASTM D 4185-06 | : <0.02 | 20.0 |
| 12. | Arsenic (As) (ng/m ³) | IS 5182 (Part 22) 2004 & ASTM D 4185-06 | : <0.01 | 20.0 |

*Result shows that all parameters are within limit, National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009

Date : 05.10.2016

Authorised Signatory :



ENVIROCHECK

LABORATORY ACCREDITED BY NABL



CERTIFICATE No. : T-1751

189 & 190, Rastraguru Avenue, Kol-700028, Ph : 2579-2889 /2891, 2549-7490, Fax : 2529-9141

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|----|-----------------------|---|
| 1. | Name of the Industry | : Foundry Cluster Development Association (F.C.D.A) |
| 2. | Address | : Domjur, Amta Road, Howrah |
| 3. | Date of sampling | : 16.09.2016 – 17.09.2016 |
| 4. | Report No. | : 31/EC/Sep./TR(A)/II/16-17 |
| 5. | Analysis completed on | : 01.10.2016 |
| 6. | Reporting Date | : 05.10.2016 |
| 7. | Particular of Plant | : Foundry Park |

A] GENERAL INFORMATION

| | | |
|----|----------------------|-------------------------------------|
| 1. | Location of Sampling | : Near WW # 1 |
| 2. | Duration of Sampling | : 24 hrs. (10:30 a.m. – 10:30 a.m.) |

B] METEOROLOGICAL INFORMATION

| | | |
|----|--------------------------------|-----------------------|
| 1. | Average Temperature (°C) | : 34.0 |
| 2. | Average Relative Humidity (%) | : 75.0 |
| 3. | Barometric Pressure (mm of Hg) | : 757.0 |
| 4. | Smell or Odour | : No Remarkable Smell |
| 5. | Weather Condition | : Clear sky |

C] RESULTS

| SL. NO. | PARAMETERS | METHOD NO. | RESULTS | LIMIT* |
|---------|---|--|----------|--------|
| 1. | Concentration of PM _{2.5} (µg/m ³) | USEPA 1997a, 40 CFR Part 50, Appendix L | : 45.34 | 60.0 |
| 2. | Concentration of PM ₁₀ (µg/m ³) | IS 5182 (Part 23) | : 76.14 | 100.0 |
| 3. | Concentration of SO ₂ (µg/m ³) | IS 5182 (Part 2) & ASTM D 2914-01 | : 5.0 | 80.0 |
| 4. | Concentration of NO _x (µg/m ³) | IS 5182 (Part 6) & ASTM D 1607-91 | : 19.97 | 80.0 |
| 5. | Concentration of CO (mg/m ³) | IS 5182 (Part 10) & ASTM D 3162-94 | : 0.39 | 2.0 |
| 6. | Concentration of Pb (µg/m ³) | IS 5182 (Part 22) & ASTM D 4185-06 | : <0.01 | 1.0 |
| 7. | Benzo (a) Pyrene (BaP) (ng/m ³) | IS 5182 (Part 12) 2004 & ASTM D 6209-98 | : <0.36 | 1.0 |
| 8. | Benzene (C ₆ H ₆) (µg/m ³) | IS 5182 (Part 11) 2006 & ASTM D 5466-01 | : <0.74 | 5.0 |
| 9. | Ozone (O ₃) (µg/m ³) | IS 5182 (Part-IX) | : <10.0 | 180.0 |
| 10. | Ammonia (NH ₃) (µg/m ³) | NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015 | : <150.0 | 400.0 |
| 11. | Nickel (Ni) (ng/m ³) | IS 5182 (Part-22) 2004 & ASTM D 4185-06 | : <0.02 | 20.0 |
| 12. | Arsenic (As) (ng/m ³) | IS 5182 (Part 22) 2004 & ASTM D 4185-06 | : <0.01 | 20.0 |

*Result shows that all parameters are within limit, National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009

Date : 05.10.2016

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| 2. | Address | : Domjur, Amta Road, Howrah |
| 3. | Date of sampling | : 16.09.2016 – 17.09.2016 |
| 4. | Report No. | : 31/EC/Sep./TR(A)/III/16-17 |
| 5. | Analysis completed on | : 01.10.2016 |
| 6. | Reporting Date | : 05.10.2016 |
| 7. | Particular of Plant | : Foundry Park |

A] GENERAL INFORMATION

| | | |
|----|----------------------|-------------------------------------|
| 1. | Location of Sampling | : Near WW # 2 |
| 2. | Duration of Sampling | : 24 hrs. (10:00 a.m. – 10:00 a.m.) |

B] METEOROLOGICAL INFORMATION

| | | |
|----|--------------------------------|-----------------------|
| 1. | Average Temperature (°C) | : 34.0 |
| 2. | Average Relative Humidity (%) | : 75.0 |
| 3. | Barometric Pressure (mm of Hg) | : 757.0 |
| 4. | Smell or Odour | : No Remarkable Smell |
| 5. | Weather Condition | : Clear sky |

C] RESULTS

| SL. NO. | PARAMETERS | METHOD NO. | RESULTS | LIMIT* |
|---------|---|--|----------|--------|
| 1. | Concentration of PM _{2.5} (µg/m ³) | USEPA 1997a, 40 CFR Part 50, Appendix L | : 31.83 | 60.0 |
| 2. | Concentration of PM ₁₀ (µg/m ³) | IS 5182 (Part 23) | : 70.02 | 100.0 |
| 3. | Concentration of SO ₂ (µg/m ³) | IS 5182 (Part 2) & ASTM D 2914-01 | : <4.0 | 80.0 |
| 4. | Concentration of NO _x (µg/m ³) | IS 5182 (Part 6) & ASTM D 1607-91 | : 16.48 | 80.0 |
| 5. | Concentration of CO (mg/m ³) | IS 5182 (Part 10) & ASTM D 3162-94 | : 0.25 | 2.0 |
| 6. | Concentration of Pb (µg/m ³) | IS 5182 (Part 22) & ASTM D 4185-06 | : <0.01 | 1.0 |
| 7. | Benzo (a) Pyrene (BaP) (ng/m ³) | IS 5182 (Part 12) 2004 & ASTM D 6209-98 | : <0.36 | 1.0 |
| 8. | Benzene (C ₆ H ₆) (µg/m ³) | IS 5182 (Part 11) 2006 & ASTM D 5466-01 | : <0.74 | 5.0 |
| 9. | Ozone (O ₃) (µg/m ³) | IS 5182 (Part-IX) | : <10.0 | 180.0 |
| 10. | Ammonia (NH ₃) (µg/m ³) | NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015 | : <150.0 | 400.0 |
| 11. | Nickel (Ni) (ng/m ³) | IS 5182 (Part-22) 2004 & ASTM D 4185-06 | : <0.02 | 20.0 |
| 12. | Arsenic (As) (ng/m ³) | IS 5182 (Part 22) 2004 & ASTM D 4185-06 | : <0.01 | 20.0 |

*Result shows that all parameters are within limit, National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009

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