

Development of Air Pollution Source Profiles – Stationary Sources Volume 2

(CPCB Project Reference Number B-300062/1/05(SA)/PCI-1/3431)

Final Report

**Submitted (as Volumes 1 and 2) to
Central Pollution Control Board, Delhi**

By

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Volume 2 of 2

**Air Pollution Source Profiles for
Stationary Sources**



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| | |
|--------------------|-----------------------|
| Source Name | Aggregate Dust |
| Source Code | 6004 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0017 | 0.0012 | | |
| Al | 0.0479 | 0.0034 | | |
| As | 0.0001 | 0.0010 | | |
| Ba | 0.0124 | 0.0009 | | |
| Ca | 0.8803 | 0.0624 | | |
| Cd | 0.0010 | 0.0001 | | |
| Ce | 0.0037 | 0.0026 | | |
| Co | 0.0008 | 0.0003 | | |
| Cr | 0.0040 | 0.0004 | | |
| Cu | 0.0120 | 0.0009 | | |
| Fe | 3.7681 | 0.2666 | | |
| Ga | 0.0008 | 0.0019 | | |
| Hf | 0.0011 | 0.0008 | | |
| Hg | 0.0071 | 0.0007 | | |
| In | 0.0332 | 0.0042 | | |
| K | 0.1494 | 0.0182 | | |
| Lu | 0.0000 | 0.0000 | | |
| Mg | 0.7948 | 0.0563 | | |
| Mn | 0.0505 | 0.0036 | | |
| Mo | 0.0004 | 0.0003 | | |
| Na | 0.5918 | 0.0428 | | |
| Ni | 0.0061 | 0.0022 | | |
| P | 0.0124 | 0.0022 | | |
| Pb | 0.0072 | 0.0022 | | |
| Pd | 0.0069 | 0.0014 | | |
| Sb | 0.0030 | 0.0011 | | |
| Sc | 0.0005 | 0.0001 | | |
| Se | 0.0038 | 0.0011 | | |
| Si | 0.0570 | 0.0045 | | |
| Sm | 0.0017 | 0.0012 | | |
| Sn | 0.4186 | 0.0300 | | |
| Sr | 0.0098 | 0.0007 | | |
| Th | 0.0006 | 0.0004 | | |
| Ti | 0.2468 | 0.0175 | | |

| | |
|--------------------|-----------------------|
| Source Name | Aggregate Dust |
| Source Code | 6004 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0008 | 0.0006 | | |
| W | 0.0023 | 0.0017 | | |
| Y | 0.0014 | 0.0002 | | |
| Zn | 0.0454 | 0.0032 | | |
| Zr | 0.0030 | 0.0003 | | |
| ANIONS | | | | |
| F | 0.0427 | 0.0034 | | |
| Cl | 0.0928 | 0.0187 | | |
| NO2 | 0.0012 | 0.0001 | | |
| Br | 0.0023 | 0.0016 | | |
| NO3 | 0.0088 | 0.0034 | | |
| PO4 | 0.0040 | 0.0016 | | |
| SO4 | 0.1681 | 0.0133 | | |
| CATIONS | | | | |
| Na | 0.1518 | 0.0404 | | |
| NH4 | 0.0042 | 0.0138 | | |
| K | 0.0022 | 0.0245 | | |
| Ca | 1.1567 | 0.1190 | | |
| Mg | 0.0187 | 0.0134 | | |
| Organic Carbon | | | | |
| OC1 | 0.0464 | 0.0021 | | |
| OC2 | 0.1654 | 0.0076 | | |
| OC3 | 0.3675 | 0.0170 | | |
| OC4 | 0.1538 | 0.0071 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 0.7331 | 0.0338 | | |
| Elemental Carbon | | | | |
| EC1 | 0.1209 | 0.0056 | | |
| EC2 | 0.0387 | 0.0018 | | |
| EC3 | 0.0242 | 0.0011 | | |
| Total EC | 0.1838 | 0.0085 | | |
| Total Carbon | 0.9168 | 0.0423 | | |
| Identified percentage of total mass | | | | |
| | 9.7586 | 0.8348 | | |

| | |
|--------------------|-----------------------|
| Source Name | Aggregate Dust |
| Source Code | 6004 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PM_x | Uncertainty | PM_x | Uncertainty |
|----------------|-----------------------|--------------------|-----------------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |

| Molecular Markers | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0018 | 0.0002 | | |
| n-Tritriacontane | 0.0018 | 0.0002 | | |
| n- Pentatriacontane | 0.0018 | 0.0002 | | |
| Hexadecanamide | 0.0018 | 0.0002 | | |
| Octadecanamide | 0.0018 | 0.0002 | | |
| Benzo[b]fluoranthene | 0.0018 | 0.0002 | | |
| Benzo[k]fluoranthene | 0.0018 | 0.0002 | | |
| Benzo[e]pyrene | 0.0018 | 0.0002 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0018 | 0.0002 | | |
| Indeno[1,2,3-cd]pyrene | 0.0018 | 0.0002 | | |
| Picene | 0.0018 | 0.0002 | | |
| Coronene | 0.0018 | 0.0002 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Agricultural Waste Burning |
| Source Code | 15 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0054 | 0.0061 | | |
| Al | 0.0033 | 0.0005 | | |
| As | 0.0166 | 0.0061 | | |
| Ba | 0.0002 | 0.0002 | | |
| Ca | 0.0018 | 0.0013 | | |
| Cd | 0.0005 | 0.0003 | | |
| Ce | 0.0190 | 0.0137 | | |
| Co | 0.0021 | 0.0015 | | |
| Cr | 0.0045 | 0.0008 | | |
| Cu | 0.0115 | 0.0013 | | |
| Fe | 0.0018 | 0.0013 | | |
| Ga | 0.0145 | 0.0104 | | |
| Hf | 0.0056 | 0.0040 | | |
| Hg | 0.0021 | 0.0015 | | |
| In | 0.0171 | 0.0123 | | |
| K | 1.1783 | 0.1218 | | |
| Lu | 0.0002 | 0.0002 | | |
| Mg | 0.0160 | 0.0020 | | |
| Mn | 0.0006 | 0.0002 | | |
| Mo | 0.0030 | 0.0017 | | |
| Na | 0.0101 | 0.0073 | | |
| Ni | 0.0083 | 0.0102 | | |
| P | 0.0116 | 0.0083 | | |
| Pb | 0.1962 | 0.0217 | | |
| Pd | 0.0079 | 0.0055 | | |
| Sb | 0.0077 | 0.0055 | | |
| Sc | 0.0004 | 0.0003 | | |
| Se | 0.0228 | 0.0060 | | |
| Si | 0.1066 | 0.0099 | | |
| Sm | 0.0088 | 0.0063 | | |
| Sn | 0.0321 | 0.0045 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Agricultural Waste Burning |
| Source Code | 15 |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Sr | 0.0001 | 0.0001 | | |
| Th | 0.0078 | 0.0023 | | |
| Ti | 0.0005 | 0.0004 | | |
| V | 0.0025 | 0.0028 | | |
| W | 0.0122 | 0.0087 | | |
| Y | 0.0008 | 0.0004 | | |
| Zn | 0.0004 | 0.0003 | | |
| Zr | 0.0054 | 0.0009 | | |
| ANIONS | | | | |
| F | 0.1798 | 0.0142 | | |
| Cl | 2.6569 | 0.2268 | | |
| NO2 | 0.0168 | 0.0012 | | |
| Br | 0.0217 | 0.0069 | | |
| NO3 | 0.0217 | 0.0123 | | |
| PO4 | 0.0079 | 0.0057 | | |
| SO4 | 0.6280 | 0.0497 | | |
| CATIONS | | | | |
| Na | 0.3276 | 0.1375 | | |
| NH4 | 0.2319 | 0.0636 | | |
| K | 2.6111 | 0.2580 | | |
| Ca | 0.1347 | 0.1801 | | |
| Mg | 0.0700 | 0.0503 | | |
| Organic Carbon | | | | |
| OC1 | 22.9007 | 1.1450 | | |
| OC2 | 15.2051 | 0.7603 | | |
| OC3 | 10.0999 | 0.5050 | | |
| OC4 | 3.0107 | 0.1505 | | |
| OP | 5.5351 | 0.2768 | | |
| Total OC | 56.7515 | 2.8376 | | |
| Elemental Carbon | | | | |
| EC1 | 2.3864 | 0.1193 | | |
| EC2 | 0.3065 | 0.0153 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Agricultural Waste Burning |
| Source Code | 15 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| EC3 | 0.1501 | 0.0075 | | |
| Total EC | 2.8430 | 0.1422 | | |
| Total Carbon | 59.5945 | 2.9797 | | |
| | | | | |
| Identified percentage of total mass | 68.2492 | 4.2745 | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.2441 | 0.0244 | | |
| n-Tritriacontane | 0.0112 | 0.0011 | | |
| n- Pentatriacontane | 0.0112 | 0.0011 | | |
| Hexadecanamide | 0.0112 | 0.0011 | | |
| Octadecanamide | 0.0112 | 0.0011 | | |
| Benzo[b]fluoranthene | 0.0112 | 0.0011 | | |
| Benzo[k]fluoranthene | 0.0112 | 0.0011 | | |
| Benzo[e]pyrene | 0.0112 | 0.0011 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0112 | 0.0011 | | |
| Indeno[1,2,3-cd]pyrene | 0.0112 | 0.0011 | | |
| Picene | 0.0112 | 0.0011 | | |
| Coronene | 0.0112 | 0.0011 | | |

| | |
|--------------------|--|
| Source Name | Asphalt paving and other operations |
| Source Code | 24 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0169 | 0.0381 | | |
| Al | 0.0599 | 0.0055 | | |
| As | 0.0165 | 0.0346 | | |
| Ba | 0.1818 | 0.0136 | | |
| Ca | 11.1381 | 0.7932 | | |
| Cd | 0.0251 | 0.0037 | | |
| Ce | 0.1227 | 0.0881 | | |
| Co | 0.0137 | 0.0098 | | |
| Cr | 0.0340 | 0.0053 | | |
| Cu | 0.0178 | 0.0048 | | |
| Fe | 5.5657 | 0.3991 | | |
| Ga | 0.0660 | 0.0657 | | |
| Hf | 0.0362 | 0.0260 | | |
| Hg | 0.0138 | 0.0099 | | |
| In | 0.7114 | 0.1148 | | |
| K | 3.5465 | 0.5149 | | |
| Lu | 0.0014 | 0.0010 | | |
| Mg | 0.1793 | 0.0176 | | |
| Mn | 0.0428 | 0.0041 | | |
| Mo | 0.0151 | 0.0108 | | |
| Na | 2.2974 | 0.1958 | | |
| Ni | 0.0336 | 0.0646 | | |
| P | 0.0750 | 0.0538 | | |
| Pb | 0.1726 | 0.0705 | | |
| Pd | 0.0494 | 0.0355 | | |
| Sb | 0.0494 | 0.0355 | | |
| Sc | 0.0023 | 0.0016 | | |
| Se | 0.0213 | 0.0314 | | |
| Si | 0.9957 | 0.0852 | | |
| Sm | 0.0567 | 0.0407 | | |
| Sn | 1.5762 | 0.1238 | | |
| Sr | 0.0146 | 0.0013 | | |
| Th | 0.0124 | 0.0124 | | |
| Ti | 0.0583 | 0.0060 | | |

| | |
|--------------------|--|
| Source Name | Asphalt paving and other operations |
| Source Code | 24 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx x=10µm | Uncertainty ± (%) | PMx x=2.5µm | Uncertainty ± (%) |
|-------------------------------------|-----------------------|------------------------------|------------------------|------------------------------|
| V | 0.0260 | 0.0187 | | |
| W | 0.0786 | 0.0564 | | |
| Y | 0.0037 | 0.0026 | | |
| Zn | 1.0983 | 0.0789 | | |
| Zr | 0.0083 | 0.0045 | | |
| ANIONS | | | | |
| F | 0.0084 | 0.0060 | | |
| Cl | 0.4881 | 0.1680 | | |
| NO2 | 0.0470 | 0.0012 | | |
| Br | 0.0240 | 0.0172 | | |
| NO3 | 0.0600 | 0.0344 | | |
| PO4 | 0.0221 | 0.0159 | | |
| SO4 | 0.9064 | 0.0793 | | |
| CATIONS | | | | |
| Na | 0.2324 | 0.3479 | | |
| NH4 | 0.1854 | 0.1520 | | |
| K | 0.5823 | 0.2865 | | |
| Ca | 7.1083 | 0.9122 | | |
| Mg | 0.1960 | 0.1408 | | |
| Organic Carbon | | | | |
| OC1 | 23.0771 | 1.1539 | | |
| OC2 | 14.8272 | 0.7414 | | |
| OC3 | 11.1322 | 0.5566 | | |
| OC4 | 5.2731 | 0.2637 | | |
| OP | 2.7783 | 0.1389 | | |
| Total OC | 57.0879 | 2.8544 | | |
| Elemental Carbon | | | | |
| EC1 | 5.1314 | 0.2566 | | |
| EC2 | 0.1607 | 0.0080 | | |
| EC3 | 0.1890 | 0.0095 | | |
| Total EC | 5.4810 | 0.2741 | | |
| Total Carbon | 62.5690 | 3.1284 | | |
| Identified percentage of total mass | 100.8636 | 8.3702 | | |

| | |
|--------------------|--|
| Source Name | Asphalt paving and other operations |
| Source Code | 24 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0081 | 0.0008 | | |
| n-Tritriacontane | 0.0081 | 0.0008 | | |
| n- Pentatriacontane | 0.0081 | 0.0008 | | |
| Hexadecanamide | 0.0081 | 0.0008 | | |
| Octadecanamide | 0.0081 | 0.0008 | | |
| Benzo[b]fluoranthene | 0.0081 | 0.0008 | | |
| Benzo[k]fluoranthene | 0.0081 | 0.0008 | | |
| Benzo[e]pyrene | 0.0081 | 0.0008 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0081 | 0.0008 | | |
| Indeno[1,2,3-cd]pyrene | 0.0081 | 0.0008 | | |
| Picene | 0.0081 | 0.0008 | | |
| Coronene | 0.0081 | 0.0008 | | |

| | |
|--------------------|---------------------------|
| Source Name | Bagasse Combustion |
| Source Code | 5 |

Profile
Location
Controls

PM10
Laboratory
Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0133 | 0.0130 | | |
| Al | 0.0106 | 0.0246 | | |
| As | 0.0077 | 0.0119 | | |
| Ba | 0.0479 | 0.0105 | | |
| Ca | 0.1770 | 0.3902 | | |
| Cd | 0.0198 | 0.0020 | | |
| Ce | 0.0407 | 0.0292 | | |
| Co | 0.0045 | 0.0032 | | |
| Cr | 0.0156 | 0.0037 | | |
| Cu | 0.0138 | 0.0032 | | |
| Fe | 0.2541 | 1.5352 | | |
| Ga | 0.0310 | 0.0220 | | |
| Hf | 0.0120 | 0.0086 | | |
| Hg | 0.0036 | 0.0053 | | |
| In | 0.2047 | 0.0410 | | |
| K | 6.6545 | 0.8417 | | |
| Lu | 0.0005 | 0.0003 | | |
| Mg | 0.0608 | 0.3948 | | |
| Mn | 0.0043 | 0.0233 | | |
| Mo | 0.0030 | 0.0035 | | |
| Na | 0.7483 | 0.0544 | | |
| Ni | 0.0313 | 0.0227 | | |
| P | 0.0249 | 0.0296 | | |
| Pb | 1.8097 | 0.1125 | | |
| Pd | 0.0190 | 0.0129 | | |
| Sb | 0.0272 | 0.0137 | | |
| Sc | 0.0004 | 0.0007 | | |

| | |
|--------------------|---------------------------|
| Source Name | Bagasse Combustion |
| Source Code | 5 |

Profile **PM10**
Location **Laboratory**
Controls **Uncontrolled**

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Se | 0.0119 | 0.0105 | | |
| Si | 0.5502 | 0.0629 | | |
| Sm | 0.0188 | 0.0135 | | |
| Sn | 4.4358 | 0.3490 | | |
| Sr | 0.0009 | 0.0019 | | |
| Th | 0.0121 | 0.0047 | | |
| Ti | 0.0125 | 0.0499 | | |
| V | 0.0086 | 0.0061 | | |
| W | 0.0261 | 0.0187 | | |
| Y | 0.0012 | 0.0012 | | |
| Zn | 0.3102 | 0.0258 | | |
| Zr | 0.0014 | 0.0014 | | |
| ANIONS | | | | |
| F | 0.1181 | 0.0118 | | |
| Cl | 8.8724 | 0.7079 | | |
| NO2 | 0.0661 | 0.0047 | | |
| Br | 0.0450 | 0.0146 | | |
| NO3 | 1.0817 | 0.0951 | | |
| PO4 | 0.0168 | 0.0121 | | |
| SO4 | 1.2095 | 0.0968 | | |
| CATIONS | | | | |
| Na | 0.3832 | 0.2753 | | |
| NH4 | 0.9948 | 0.1661 | | |
| K | 8.8322 | 0.7744 | | |
| Ca | 0.5580 | 0.3974 | | |
| Mg | 0.1489 | 0.1070 | | |
| Organic Carbon | | | | |
| OC1 | 7.1904 | 0.3595 | | |

| | |
|--------------------|---------------------------|
| Source Name | Bagasse Combustion |
| Source Code | 5 |

| Profile | PM10 | | | |
|-------------------------------------|---------------------|--------------------|----------------|--------------------|
| Location | Laboratory | | | |
| Controls | Uncontrolled | | | |
| Species | PMx | Uncertainty | PMy | Uncertainty |
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| OC2 | 6.5633 | 0.3282 | | |
| OC3 | 6.0005 | 0.3000 | | |
| OC4 | 6.6967 | 0.3348 | | |
| OP | 11.2475 | 0.5624 | | |
| Total OC | 37.6984 | 1.8849 | | |
| Elemental Carbon | | | | |
| EC1 | 25.3030 | 1.2651 | | |
| EC2 | 0.5354 | 0.0268 | | |
| EC3 | 0.1714 | 0.0086 | | |
| Total EC | 26.0098 | 1.3005 | | |
| Total Carbon | 63.7082 | 3.1854 | | |
| Identified percentage of total mass | 101.6649 | 10.0078 | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.1235 | 0.0123 | | |
| n-Tritriacontane | 0.1235 | 0.0123 | | |
| n- Pentatriacontane | 0.1235 | 0.0123 | | |
| Hexadecanamide | 0.1235 | 0.0123 | | |
| Octadecanamide | 0.1235 | 0.0123 | | |
| Benzo[b]fluoranthene | 0.6106 | 0.0611 | | |
| Benzo[k]fluoranthene | 0.5022 | 0.0502 | | |
| Benzo[e]pyrene | 0.6481 | 0.0648 | | |
| Indeno[1,2,3-cd]fluoranthene | 1.0817 | 0.1082 | | |
| Indeno[1,2,3-cd]pyrene | 1.0170 | 0.1017 | | |
| Picene | 5.7434 | 0.5743 | | |
| Coronene | 0.1235 | 0.0123 | | |

| | |
|--------------------|---|
| Source Name | Bricks and Related Clay Products |
| Source Code | 40 |

Profile PM10
Location Kanpur
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0314 | 0.0226 | | |
| Al | 0.0303 | 0.0029 | | |
| As | 0.0793 | 0.0233 | | |
| Ba | 0.0071 | 0.0010 | | |
| Ca | 0.5447 | 0.0425 | | |
| Cd | 0.0570 | 0.0051 | | |
| Ce | 0.2419 | 0.0603 | | |
| Co | 0.0087 | 0.0056 | | |
| Cr | 0.0159 | 0.0029 | | |
| Cu | 0.0876 | 0.0079 | | |
| Fe | 1.0448 | 0.0770 | | |
| Ga | 0.0476 | 0.0376 | | |
| Hf | 0.0934 | 0.0195 | | |
| Hg | 0.0077 | 0.0056 | | |
| In | 0.1103 | 0.0475 | | |
| K | 0.2749 | 0.1866 | | |
| Lu | 0.0009 | 0.0006 | | |
| Mg | 0.1179 | 0.0115 | | |
| Mn | 0.0145 | 0.0017 | | |
| Mo | 0.0188 | 0.0067 | | |
| Na | 0.9966 | 0.0928 | | |
| Ni | 0.0296 | 0.0369 | | |
| P | 0.0421 | 0.0303 | | |
| Pb | 9.0713 | 0.6671 | | |
| Pd | 0.0510 | 0.0212 | | |
| Sb | 0.0454 | 0.0210 | | |
| Sc | 0.0015 | 0.0009 | | |

| | |
|--------------------|---|
| Source Name | Bricks and Related Clay Products |
| Source Code | 40 |

Profile PM10
Location Kanpur
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Se | 0.0164 | 0.0179 | | |
| Si | 0.3902 | 0.0361 | | |
| Sm | 0.0319 | 0.0229 | | |
| Sn | 0.6293 | 0.0518 | | |
| Sr | 0.0018 | 0.0003 | | |
| Th | 0.0232 | 0.0080 | | |
| Ti | 0.1233 | 0.0099 | | |
| V | 0.0792 | 0.0146 | | |
| W | 0.0869 | 0.0343 | | |
| Y | 0.0024 | 0.0015 | | |
| Zn | 0.0891 | 0.0072 | | |
| Zr | 0.0121 | 0.0030 | | |
| ANIONS | | | | |
| F | 0.0649 | 0.0128 | | |
| Cl | 1.9019 | 0.3475 | | |
| NO2 | 0.0751 | 0.0053 | | |
| Br | 0.0616 | 0.0293 | | |
| NO3 | 1.5046 | 0.1515 | | |
| PO4 | 0.0360 | 0.0259 | | |
| SO4 | 2.3246 | 0.1894 | | |
| CATIONS | | | | |
| Na | 0.8224 | 0.5908 | | |
| NH4 | 0.7405 | 0.2752 | | |
| K | 0.4269 | 0.4393 | | |
| Ca | 1.3686 | 0.8618 | | |
| Mg | 0.3741 | 0.2326 | | |
| Organic Carbon | | | | |
| OC1 | 1.2410 | 0.0620 | | |

| | |
|--------------------|---|
| Source Name | Bricks and Related Clay Products |
| Source Code | 40 |

Profile PM10
Location Kanpur
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| OC2 | 2.5070 | 0.1253 | | |
| OC3 | 3.8255 | 0.1913 | | |
| OC4 | 7.3425 | 0.3671 | | |
| OP | 12.6173 | 0.6309 | | |
| Total OC | 27.5333 | 1.3767 | | |
| Elemental Carbon | | | | |
| EC1 | 49.4754 | 2.4738 | | |
| EC2 | 1.6207 | 0.0810 | | |
| EC3 | 0.8264 | 0.0413 | | |
| Total EC | 51.9225 | 2.5961 | | |
| Total Carbon | 79.4558 | 3.9728 | | |
| Identified percentage of total mass | | | | |
| | 103.7149 | 8.7803 | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0193 | 0.0019 | | |
| n-Tritriacontane | 0.0193 | 0.0019 | | |
| n- Pentatriacontane | 0.0193 | 0.0019 | | |
| Hexadecanamide | 0.0193 | 0.0019 | | |
| Octadecanamide | 0.0193 | 0.0019 | | |
| Benzo[b]fluoranthene | 0.0194 | 0.0019 | | |
| Benzo[k]fluoranthene | 0.0193 | 0.0019 | | |
| Benzo[e]pyrene | 0.0193 | 0.0019 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0193 | 0.0019 | | |
| Indeno[1,2,3-cd]pyrene | 0.0193 | 0.0019 | | |
| Picene | 1.3130 | 0.1313 | | |
| Coronene | 0.0193 | 0.0019 | | |

| | |
|--------------------|---------------|
| Source Name | Cement |
| Source Code | 6002 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0002 | 0.0007 | | |
| Al | 0.0465 | 0.0033 | | |
| As | 0.0010 | 0.0007 | | |
| Ba | 0.0171 | 0.0012 | | |
| Ca | 0.2158 | 0.0154 | | |
| Cd | 0.0009 | 0.0001 | | |
| Ce | 0.0004 | 0.0016 | | |
| Co | 0.0003 | 0.0002 | | |
| Cr | 0.0097 | 0.0007 | | |
| Cu | 0.0044 | 0.0004 | | |
| Fe | 2.3166 | 0.1639 | | |
| Ga | 0.0007 | 0.0013 | | |
| Hf | 0.0007 | 0.0005 | | |
| Hg | 0.0041 | 0.0004 | | |
| In | 0.0296 | 0.0033 | | |
| K | 0.3821 | 0.0315 | | |
| Lu | 0.0000 | 0.0000 | | |
| Mg | 0.5508 | 0.0390 | | |
| Mn | 0.0484 | 0.0034 | | |
| Mo | 0.0003 | 0.0002 | | |
| Na | 0.2426 | 0.0178 | | |
| Ni | 0.0028 | 0.0014 | | |
| P | 0.0282 | 0.0028 | | |
| Pb | 0.0111 | 0.0018 | | |
| Pd | 0.0043 | 0.0009 | | |
| Sb | 0.0010 | 0.0007 | | |
| Sc | 0.0007 | 0.0001 | | |
| Se | 0.0002 | 0.0006 | | |
| Si | 0.0945 | 0.0070 | | |
| Sm | 0.0002 | 0.0007 | | |
| Sn | 0.2556 | 0.0183 | | |
| Sr | 0.0851 | 0.0060 | | |
| Th | 0.0004 | 0.0003 | | |
| Ti | 0.1600 | 0.0113 | | |

| | |
|--------------------|---------------|
| Source Name | Cement |
| Source Code | 6002 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0006 | 0.0004 | | |
| W | 0.0015 | 0.0011 | | |
| Y | 0.0012 | 0.0001 | | |
| Zn | 0.0409 | 0.0029 | | |
| Zr | 0.0035 | 0.0003 | | |
| ANIONS | | | | |
| F | 0.0248 | 0.0022 | | |
| Cl | 0.2149 | 0.0260 | | |
| NO2 | 0.0009 | 0.0001 | | |
| Br | 0.0022 | 0.0016 | | |
| NO3 | 0.0109 | 0.0035 | | |
| PO4 | 0.0020 | 0.0015 | | |
| SO4 | 3.6938 | 0.2625 | | |
| CATIONS | | | | |
| Na | 0.1963 | 0.0418 | | |
| NH4 | 0.0148 | 0.0138 | | |
| K | 0.1951 | 0.0346 | | |
| Ca | 5.8078 | 0.4432 | | |
| Mg | 0.0179 | 0.0129 | | |
| Organic Carbon | | | | |
| OC1 | 0.1061 | 0.0050 | | |
| OC2 | 0.1470 | 0.0069 | | |
| OC3 | 0.6039 | 0.0283 | | |
| OC4 | 0.1523 | 0.0071 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 1.0092 | 0.0473 | | |
| Elemental Carbon | | | | |
| EC1 | 0.6092 | 0.0286 | | |
| EC2 | 0.1182 | 0.0055 | | |
| EC3 | 0.0205 | 0.0010 | | |
| Total EC | 0.7478 | 0.0351 | | |
| Total Carbon | 1.7571 | 0.0824 | | |
| | | | | |
| Identified percentage of total mass | 16.5025 | 1.2682 | | |

| | |
|--------------------|---------------|
| Source Name | Cement |
| Source Code | 6002 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0015 | 0.0001 | | |
| n-Tritriacontane | 0.0015 | 0.0001 | | |
| n- Pentatriacontane | 0.0015 | 0.0001 | | |
| Hexadecanamide | 0.0015 | 0.0001 | | |
| Octadecanamide | 0.0015 | 0.0001 | | |
| Benzo[b]fluoranthene | 0.0015 | 0.0001 | | |
| Benzo[k]fluoranthene | 0.0015 | 0.0001 | | |
| Benzo[e]pyrene | 0.0015 | 0.0001 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0015 | 0.0001 | | |
| Indeno[1,2,3-cd]pyrene | 0.0015 | 0.0001 | | |
| Picene | 0.0015 | 0.0001 | | |
| Coronene | 0.0015 | 0.0001 | | |

| | |
|--------------------|------------------------------|
| Source Name | Chulha (Wood)- Kanpur |
| Source Code | 9 |

Profile PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0278 | 0.0208 | | |
| Al | 0.0106 | 0.0015 | | |
| As | 0.1054 | 0.0234 | | |
| Ba | 0.0015 | 0.0006 | | |
| Ca | 0.1043 | 0.0111 | | |
| Cd | 0.0017 | 0.0013 | | |
| Ce | 0.0637 | 0.0458 | | |
| Co | 0.0071 | 0.0051 | | |
| Cr | 0.0420 | 0.0044 | | |
| Cu | 0.0173 | 0.0031 | | |
| Fe | 0.0561 | 0.0077 | | |
| Ga | 0.0229 | 0.0336 | | |
| Hf | 0.0753 | 0.0167 | | |
| Hg | 0.0072 | 0.0051 | | |
| In | 0.0574 | 0.0412 | | |
| K | 0.9067 | 0.2100 | | |
| Lu | 0.0093 | 0.0011 | | |
| Mg | 0.0425 | 0.0060 | | |
| Mn | 0.0024 | 0.0008 | | |
| Mo | 0.0447 | 0.0078 | | |
| Na | 0.2134 | 0.0362 | | |
| Ni | 0.0223 | 0.0338 | | |
| P | 0.0592 | 0.0291 | | |
| Pb | 0.4709 | 0.0620 | | |
| Pd | 0.0213 | 0.0182 | | |
| Sb | 0.0531 | 0.0200 | | |
| Sc | 0.0025 | 0.0009 | | |

| | |
|--------------------|------------------------------|
| Source Name | Chulha (Wood)- Kanpur |
| Source Code | 9 |

Profile PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Se | 0.1246 | 0.0229 | | |
| Si | 0.6710 | 0.0550 | | |
| Sm | 0.0294 | 0.0212 | | |
| Sn | 0.0399 | 0.0110 | | |
| Sr | 0.0017 | 0.0003 | | |
| Th | 0.0436 | 0.0086 | | |
| Ti | 0.0018 | 0.0013 | | |
| V | 0.0053 | 0.0093 | | |
| W | 0.0733 | 0.0311 | | |
| Y | 0.0019 | 0.0014 | | |
| Zn | 0.0014 | 0.0010 | | |
| Zr | 0.0118 | 0.0028 | | |
| ANIONS | | | | |
| F | 0.0999 | 0.0122 | | |
| Cl | 5.1268 | 0.4799 | | |
| NO2 | 0.0443 | 0.0031 | | |
| Br | 0.0242 | 0.0181 | | |
| NO3 | 0.2427 | 0.0470 | | |
| PO4 | 0.0233 | 0.0167 | | |
| SO4 | 0.8289 | 0.0749 | | |
| CATIONS | | | | |
| Na | 0.5091 | 0.3802 | | |
| NH4 | 0.2807 | 0.1646 | | |
| K | 3.9856 | 0.5096 | | |
| Ca | 0.4395 | 0.5328 | | |
| Mg | 0.2064 | 0.1483 | | |
| Organic Carbon | | | | |
| OC1 | 14.2503 | 0.7125 | | |

| | |
|--------------------|------------------------------|
| Source Name | Chulha (Wood)- Kanpur |
| Source Code | 9 |

Profile PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| OC2 | 10.9607 | 0.5480 | | |
| OC3 | 9.7745 | 0.4887 | | |
| OC4 | 6.2365 | 0.3118 | | |
| OP | 7.2231 | 0.3612 | | |
| Total OC | 48.4451 | 2.4223 | | |
| Elemental Carbon | | | | |
| EC1 | 7.6483 | 0.3824 | | |
| EC2 | 0.3206 | 0.0160 | | |
| EC3 | 0.0297 | 0.0015 | | |
| Total EC | 7.9986 | 0.3999 | | |
| Total Carbon | 56.4437 | 2.8222 | | |
| | | | | |
| Identified percentage of total mass | 71.7095 | 6.0228 | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0356 | 0.0036 | | |
| n-Tritriacontane | 0.0356 | 0.0036 | | |
| n- Pentatriacontane | 0.0356 | 0.0036 | | |
| Hexadecanamide | 0.0356 | 0.0036 | | |
| Octadecanamide | 0.0356 | 0.0036 | | |
| Benzo[b]fluoranthene | 0.5754 | 0.0575 | | |
| Benzo[k]fluoranthene | 0.0356 | 0.0036 | | |
| Benzo[e]pyrene | 0.0356 | 0.0036 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0356 | 0.0036 | | |
| Indeno[1,2,3-cd]pyrene | 0.0356 | 0.0036 | | |
| Picene | 0.0356 | 0.0036 | | |
| Coronene | 0.0356 | 0.0036 | | |

| | |
|--------------------|----------------------------------|
| Source Name | Chulha (Wood) from Mumbai |
| Source Code | 9 |

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | Pmy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0106 | 0.0076 | 0.0240 | 0.0091 |
| Al | 0.0062 | 0.0007 | 0.0012 | 0.0004 |
| As | 0.0041 | 0.0066 | 0.0106 | 0.0076 |
| Ba | 0.0003 | 0.0002 | 0.0002 | 0.0002 |
| Ca | 0.0022 | 0.0016 | 0.0025 | 0.0018 |
| Cd | 0.0006 | 0.0005 | 0.0007 | 0.0005 |
| Ce | 0.0232 | 0.0167 | 0.0257 | 0.0185 |
| Co | 0.0026 | 0.0019 | 0.0029 | 0.0021 |
| Cr | 0.0092 | 0.0012 | 0.0035 | 0.0009 |
| Cu | 0.0065 | 0.0011 | 0.0029 | 0.0010 |
| Fe | 0.7167 | 0.0517 | 0.0024 | 0.0017 |
| Ga | 0.0177 | 0.0127 | 0.0018 | 0.0132 |
| Hf | 0.0044 | 0.0048 | 0.0005 | 0.0051 |
| Hg | 0.0026 | 0.0019 | 0.0024 | 0.0020 |
| In | 0.2423 | 0.0287 | 0.1952 | 0.0270 |
| K | 1.5823 | 0.1582 | 1.3442 | 0.1476 |
| Lu | 0.0003 | 0.0002 | 0.0004 | 0.0002 |
| Mg | 0.0018 | 0.0013 | 0.0020 | 0.0014 |
| Mn | 0.0050 | 0.0006 | 0.0004 | 0.0003 |
| Mo | 0.0035 | 0.0021 | 0.0050 | 0.0024 |
| Na | 0.3911 | 0.0340 | 0.1156 | 0.0160 |
| Ni | 0.0220 | 0.0130 | 0.0076 | 0.0136 |
| P | 0.0293 | 0.0110 | 0.0265 | 0.0119 |
| Pb | 0.0174 | 0.0125 | 0.0193 | 0.0139 |
| Pd | 0.0094 | 0.0067 | 0.0255 | 0.0083 |
| Sb | 0.0006 | 0.0063 | 0.0027 | 0.0070 |
| Sc | 0.0000 | 0.0003 | 0.0005 | 0.0003 |

| | |
|--------------------|----------------------------------|
| Source Name | Chulha (Wood) from Mumbai |
| Source Code | 9 |

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | Pmy | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Se | 0.0009 | 0.0058 | 0.0009 | 0.0064 |
| Si | 0.0055 | 0.0040 | 0.0061 | 0.0044 |
| Sm | 0.0107 | 0.0077 | 0.0119 | 0.0085 |
| Sn | 0.1324 | 0.0118 | 0.0052 | 0.0038 |
| Sr | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Th | 0.0033 | 0.0024 | 0.0009 | 0.0025 |
| Ti | 0.0008 | 0.0005 | 0.0002 | 0.0005 |
| V | 0.0021 | 0.0034 | 0.0097 | 0.0042 |
| W | 0.0149 | 0.0107 | 0.0230 | 0.0122 |
| Y | 0.0002 | 0.0005 | 0.0008 | 0.0006 |
| Zn | 0.3594 | 0.0256 | 0.3288 | 0.0235 |
| Zr | 0.0103 | 0.0014 | 0.0013 | 0.0009 |
| ANIONS | | | | |
| F | 0.0817 | 0.0076 | 0.3009 | 0.0232 |
| Cl | 3.3609 | 0.2814 | 3.2136 | 0.2767 |
| NO2 | 0.0191 | 0.0013 | 0.0214 | 0.0015 |
| Br | 0.0097 | 0.0070 | 0.0109 | 0.0078 |
| NO3 | 0.0191 | 0.0137 | 0.0214 | 0.0154 |
| PO4 | 0.0090 | 0.0065 | 0.0101 | 0.0072 |
| SO4 | 0.4745 | 0.0396 | 0.2973 | 0.0281 |
| CATIONS | | | | |
| Na | 0.2399 | 0.1491 | 0.2296 | 0.1650 |
| NH4 | 0.0868 | 0.0624 | 0.0973 | 0.0699 |
| K | 1.9416 | 0.2233 | 1.6163 | 0.2133 |
| Ca | 0.1348 | 0.2039 | 0.3311 | 0.2379 |
| Mg | 0.6348 | 0.0906 | 0.0893 | 0.0641 |
| Organic Carbon | | | | |
| OC1 | 18.4044 | 0.9202 | 17.6921 | 0.8846 |

| | |
|--------------------|----------------------------------|
| Source Name | Chulha (Wood) from Mumbai |
| Source Code | 9 |

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | Pmy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| OC2 | 14.1509 | 0.7075 | 13.6303 | 0.6815 |
| OC3 | 9.2848 | 0.4642 | 9.1476 | 0.4574 |
| OC4 | 3.9181 | 0.1959 | 4.2552 | 0.2128 |
| OP | 8.3466 | 0.4173 | 7.7368 | 0.3868 |
| Total OC | 54.1048 | 2.7052 | 52.4620 | 2.6231 |
| Elemental Carbon | | | | |
| EC1 | 6.3487 | 0.3174 | 5.6888 | 0.2844 |
| EC2 | 0.8118 | 0.0406 | 1.1093 | 0.0555 |
| EC3 | 0.3889 | 0.0194 | 0.5575 | 0.0279 |
| Total EC | 7.5494 | 0.3775 | 7.3556 | 0.3678 |
| Total Carbon | 61.6542 | 3.0827 | 59.8176 | 2.9909 |
| | | | | |
| Identified percentage of total mass | 72.3187 | 4.6268 | 68.2717 | 4.4825 |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.5382 | 0.0538 | | |
| n- Triacontane | 0.6331 | 0.0633 | | |
| n- Pentatriacontane | 0.9950 | 0.0995 | | |
| Hexadecanamide | 0.6360 | 0.0636 | | |
| Octadecanamide | 0.0923 | 0.0092 | | |
| Benzo[b]fluoranthene | 0.0029 | 0.0003 | | |
| Benzo[k]fluoranthene | 0.0222 | 0.0022 | | |
| Benzo[e]pyrene | 0.0107 | 0.0011 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0994 | 0.0099 | | |
| Indeno[1,2,3-cd]pyrene | 0.0029 | 0.0003 | | |
| Picene | 0.0029 | 0.0003 | | |
| Coronene | 0.9184 | 0.0918 | | |

| | |
|--------------------|--|
| Source Name | Coal Combustion-Domestic (Kanpur) |
| Source Code | 8 |

Profile PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0294 | 0.0211 | | |
| Al | 0.0114 | 0.0016 | | |
| As | 0.0267 | 0.0192 | | |
| Ba | 0.0008 | 0.0006 | | |
| Ca | 0.0596 | 0.0079 | | |
| Cd | 0.0106 | 0.0018 | | |
| Ce | 0.0646 | 0.0464 | | |
| Co | 0.0072 | 0.0052 | | |
| Cr | 0.0066 | 0.0021 | | |
| Cu | 0.1508 | 0.0122 | | |
| Fe | 0.0061 | 0.0044 | | |
| Ga | 0.0392 | 0.0349 | | |
| Hf | 0.0202 | 0.0137 | | |
| Hg | 0.0073 | 0.0052 | | |
| In | 0.0992 | 0.0440 | | |
| K | 2.0697 | 0.2854 | | |
| Lu | 0.0008 | 0.0005 | | |
| Mg | 0.0049 | 0.0035 | | |
| Mn | 0.0017 | 0.0008 | | |
| Mo | 0.0114 | 0.0059 | | |
| Na | 0.0345 | 0.0248 | | |
| Ni | 0.0217 | 0.0342 | | |
| P | 0.0395 | 0.0284 | | |
| Pb | 1.5716 | 0.1364 | | |
| Pd | 0.0260 | 0.0187 | | |
| Sb | 0.0260 | 0.0187 | | |
| Sc | 0.0005 | 0.0008 | | |

| | |
|--------------------|--|
| Source Name | Coal Combustion-Domestic (Kanpur) |
| Source Code | 8 |

Profile PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Se | 0.0438 | 0.0183 | | |
| Si | 0.2214 | 0.0242 | | |
| Sm | 0.0298 | 0.0214 | | |
| Sn | 0.1478 | 0.0181 | | |
| Sr | 0.0004 | 0.0002 | | |
| Th | 0.0081 | 0.0066 | | |
| Ti | 0.0018 | 0.0013 | | |
| V | 0.0137 | 0.0099 | | |
| W | 0.0414 | 0.0297 | | |
| Y | 0.0019 | 0.0014 | | |
| Zn | 0.1465 | 0.0110 | | |
| Zr | 0.0249 | 0.0036 | | |
| ANIONS | | | | |
| F | 0.0497 | 0.0099 | | |
| Cl | 0.3686 | 0.1977 | | |
| NO2 | 0.0323 | 0.0023 | | |
| Br | 0.0519 | 0.0229 | | |
| NO3 | 0.2888 | 0.0557 | | |
| PO4 | 0.0278 | 0.0199 | | |
| SO4 | 5.9304 | 0.4373 | | |
| CATIONS | | | | |
| Na | 0.8278 | 0.4660 | | |
| NH4 | 0.5170 | 0.2065 | | |
| K | 5.2610 | 0.6441 | | |
| Ca | 1.0034 | 0.6618 | | |
| Mg | 0.2463 | 0.1769 | | |
| Organic Carbon | | | | |
| OC1 | 7.3240 | 0.3662 | | |

| | |
|--------------------|--|
| Source Name | Coal Combustion-Domestic (Kanpur) |
| Source Code | 8 |

Profile PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| OC2 | 17.7417 | 0.8871 | | |
| OC3 | 7.9100 | 0.3955 | | |
| OC4 | 8.8308 | 0.4415 | | |
| OP | 9.9172 | 0.4959 | | |
| Total OC | 51.7237 | 2.5862 | | |
| Elemental Carbon | | | | |
| EC1 | 7.0853 | 0.3543 | | |
| EC2 | 0.5314 | 0.0266 | | |
| EC3 | 0.1972 | 0.0099 | | |
| Total EC | 7.8139 | 0.3907 | | |
| Total Carbon | 59.5376 | 2.9769 | | |
| | | | | |
| Identified percentage of total mass | 79.1719 | 6.8018 | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0052 | 0.0005 | | |
| n-Tritriacontane | 0.0052 | 0.0005 | | |
| n- Pentatriacontane | 0.0052 | 0.0005 | | |
| Hexadecanamide | 0.0052 | 0.0005 | | |
| Octadecanamide | 0.0052 | 0.0005 | | |
| Benzo[b]fluoranthene | 0.0052 | 0.0005 | | |
| Benzo[k]fluoranthene | 0.0052 | 0.0005 | | |
| Benzo[e]pyrene | 0.0052 | 0.0005 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0052 | 0.0005 | | |
| Indeno[1,2,3-cd]pyrene | 0.0052 | 0.0005 | | |
| Picene | 0.0052 | 0.0005 | | |
| Coronene | 0.0052 | 0.0005 | | |

| | |
|--------------------|--|
| Source Name | Coal Combustion-Domestic (Mumbai) |
| Source Code | 8 |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0281 | 0.0137 | 0.0231 | 0.0166 |
| Al | 0.1320 | 0.0097 | 0.0032 | 0.0009 |
| As | 0.0263 | 0.0125 | 0.0227 | 0.0152 |
| Ba | 0.0019 | 0.0005 | 0.0011 | 0.0005 |
| Ca | 0.0958 | 0.0088 | 0.0049 | 0.0035 |
| Cd | 0.0011 | 0.0008 | 0.0014 | 0.0010 |
| Ce | 0.0403 | 0.0289 | 0.0508 | 0.0365 |
| Co | 0.0045 | 0.0032 | 0.0057 | 0.0041 |
| Cr | 0.0060 | 0.0014 | 0.0055 | 0.0017 |
| Cu | 0.0345 | 0.0035 | 0.0357 | 0.0038 |
| Fe | 0.1821 | 0.0148 | 0.0048 | 0.0035 |
| Ga | 0.0124 | 0.0211 | 0.0387 | 0.0278 |
| Hf | 0.0000 | 0.0079 | 0.0443 | 0.0124 |
| Hg | 0.0037 | 0.0032 | 0.0057 | 0.0041 |
| In | 0.1462 | 0.0323 | 0.0603 | 0.0336 |
| K | 9.4542 | 0.7430 | 9.5599 | 0.7709 |
| Lu | 0.0002 | 0.0003 | 0.0006 | 0.0004 |
| Mg | 0.0348 | 0.0042 | 0.0039 | 0.0028 |
| Mn | 0.1212 | 0.0089 | 0.0008 | 0.0006 |
| Mo | 0.0138 | 0.0040 | 0.0238 | 0.0055 |
| Na | 1.8613 | 0.1421 | 1.8038 | 0.1409 |
| Ni | 0.0866 | 0.0253 | 0.0391 | 0.0281 |
| P | 0.1951 | 0.0279 | 0.1038 | 0.0264 |
| Pb | 0.1153 | 0.0265 | 0.0796 | 0.0297 |
| Pd | 0.0162 | 0.0117 | 0.0077 | 0.0140 |
| Sb | 0.0162 | 0.0116 | 0.0205 | 0.0147 |
| Sc | 0.0007 | 0.0005 | 0.0009 | 0.0007 |
| Se | 0.0225 | 0.0111 | 0.0441 | 0.0149 |
| Si | 0.0095 | 0.0069 | 0.0120 | 0.0087 |

| | |
|--------------------|--|
| Source Name | Coal Combustion-Domestic (Mumbai) |
| Source Code | 8 |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------------|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Sm | 0.0186 | 0.0134 | 0.0235 | 0.0169 |
| Sn | 0.1904 | 0.0178 | 0.0104 | 0.0074 |
| Sr | 0.0076 | 0.0006 | 0.0032 | 0.0003 |
| Th | 0.0112 | 0.0045 | 0.0073 | 0.0053 |
| Ti | 0.0011 | 0.0008 | 0.0035 | 0.0011 |
| V | 0.0085 | 0.0061 | 0.0001 | 0.0072 |
| W | 0.0258 | 0.0185 | 0.0325 | 0.0234 |
| Y | 0.0005 | 0.0008 | 0.0015 | 0.0011 |
| Zn | 0.2174 | 0.0158 | 0.1649 | 0.0122 |
| Zr | 0.0020 | 0.0014 | 0.0017 | 0.0018 |
| ANIONS | | | | |
| F | 0.1153 | 0.0117 | 0.4154 | 0.0333 |
| Cl | 9.4162 | 0.7491 | 9.7263 | 0.7872 |
| NO2 | 0.0288 | 0.0020 | 0.0439 | 0.0031 |
| Br | 0.0189 | 0.0136 | 0.0224 | 0.0161 |
| NO3 | 0.2223 | 0.0375 | 0.0439 | 0.0316 |
| PO4 | 0.0174 | 0.0125 | 0.0207 | 0.0149 |
| SO4 | 29.3187 | 2.0842 | 32.0992 | 2.2829 |
| CATIONS | | | | |
| Na | 2.1323 | 0.3865 | 2.1530 | 0.4357 |
| NH4 | 0.1684 | 0.1210 | 0.1999 | 0.1436 |
| K | 23.5188 | 1.8113 | 23.9614 | 1.8713 |
| Ca | 1.7474 | 0.4774 | 1.0704 | 0.5099 |
| Mg | 0.3519 | 0.1219 | 0.1834 | 0.1318 |
| Organic Carbon | | | | |
| OC1 | 2.7867 | 0.1393 | 2.8868 | 0.1443 |
| OC2 | 3.8683 | 0.1934 | 4.2058 | 0.2103 |
| OC3 | 4.8675 | 0.2434 | 3.0706 | 0.1535 |
| OC4 | 2.6858 | 0.1343 | 2.1191 | 0.1060 |

| | |
|--------------------|--|
| Source Name | Coal Combustion-Domestic (Mumbai) |
| Source Code | 8 |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| OP | 1.2100 | 0.0605 | 0.8217 | 0.0411 |
| Total OC | 15.4183 | 0.7709 | 13.1039 | 0.6552 |
| Elemental Carbon | | | | |
| EC1 | 1.0450 | 0.0523 | 0.4433 | 0.0222 |
| EC2 | 0.9808 | 0.0490 | 0.5622 | 0.0281 |
| EC3 | 0.4033 | 0.0202 | 0.1189 | 0.0059 |
| Total EC | 2.4292 | 0.1215 | 1.1244 | 0.0562 |
| Total Carbon | 17.8475 | 0.8924 | 14.2284 | 0.7114 |
| | | | | |
| Identified percentage of total mass | 98.0496 | | 96.4253 | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.1448 | 0.0145 | | |
| n-Tritriacontane | 0.1153 | 0.0115 | | |
| n- Pentatriacontane | 0.0082 | 0.0008 | | |
| Hexadecanamide | 0.3714 | 0.0371 | | |
| Octadecanamide | 0.3259 | 0.0326 | | |
| Benzo[b]fluoranthene | 0.0082 | 0.0008 | | |
| Benzo[k]fluoranthene | 0.0082 | 0.0008 | | |
| Benzo[e]pyrene | 0.0082 | 0.0008 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0082 | 0.0008 | | |
| Indeno[1,2,3-cd]pyrene | 0.0082 | 0.0008 | | |
| Picene | 0.0082 | 0.0008 | | |
| Coronene | 0.0082 | 0.0008 | | |

| | |
|-------------|-----------------------------------|
| Source Name | Coal Combustion-Power Plant-Delhi |
| Source Code | 12 |

Profile PM10
Location Delhi
Controls ESP

| Species | PMx | Uncertainty | PMy | Uncertainty |
|----------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0284 | 0.0204 | | |
| Al | 0.0432 | 0.0037 | | |
| As | 0.0257 | 0.0185 | | |
| Ba | 0.0306 | 0.0026 | | |
| Ca | 0.2576 | 0.0212 | | |
| Cd | 0.0102 | 0.0017 | | |
| Ce | 0.0623 | 0.0447 | | |
| Co | 0.0070 | 0.0050 | | |
| Cr | 0.0192 | 0.0028 | | |
| Cu | 0.2158 | 0.0167 | | |
| Fe | 2.5518 | 0.1832 | | |
| Ga | 0.0540 | 0.0345 | | |
| Hf | 0.0546 | 0.0152 | | |
| Hg | 0.0070 | 0.0050 | | |
| In | 0.0561 | 0.0403 | | |
| K | 0.2660 | 0.1693 | | |
| Lu | 0.0007 | 0.0005 | | |
| Mg | 0.0888 | 0.0088 | | |
| Mn | 0.0428 | 0.0035 | | |
| Mo | 0.0324 | 0.0069 | | |
| Na | 0.2888 | 0.0394 | | |
| Ni | 0.0899 | 0.0367 | | |
| P | 0.0381 | 0.0273 | | |
| Pb | 0.0999 | 0.0365 | | |
| Pd | 0.0107 | 0.0173 | | |
| Sb | 0.1039 | 0.0225 | | |
| Sc | 0.0012 | 0.0008 | | |
| Se | 0.0669 | 0.0190 | | |
| Si | 0.1120 | 0.0164 | | |
| Sm | 0.0288 | 0.0207 | | |
| Sn | 0.4588 | 0.0389 | | |
| Sr | 0.0092 | 0.0008 | | |
| Th | 0.0090 | 0.0064 | | |
| Ti | 0.1894 | 0.0142 | | |
| V | 0.0523 | 0.0117 | | |
| W | 0.1300 | 0.0337 | | |
| Y | 0.0019 | 0.0013 | | |

| | |
|-------------|-----------------------------------|
| Source Name | Coal Combustion-Power Plant-Delhi |
| Source Code | 12 |

Profile PM10
Location Delhi
Controls ESP

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Zn | 0.0013 | 0.0009 | | |
| Zr | 0.0242 | 0.0035 | | |
| ANIONS | | | | |
| F | 1.3385 | 0.0996 | | |
| Cl | 2.5729 | 0.3289 | | |
| NO2 | 0.6985 | 0.0494 | | |
| Br | 0.1085 | 0.0256 | | |
| NO3 | 6.8718 | 0.5138 | | |
| PO4 | 0.0271 | 0.0195 | | |
| SO4 | 1.4343 | 0.1198 | | |
| CATIONS | | | | |
| Na | 0.7436 | 0.4513 | | |
| NH4 | 1.9135 | 0.2869 | | |
| K | 0.0769 | 0.3179 | | |
| Ca | 0.8013 | 0.6362 | | |
| Mg | 0.2406 | 0.1728 | | |
| Organic Carbon | | | | |
| OC1 | 1.5039 | 0.0752 | | |
| OC2 | 2.4589 | 0.1229 | | |
| OC3 | 3.1395 | 0.1570 | | |
| OC4 | 1.2734 | 0.0637 | | |
| OP | 0.3293 | 0.0165 | | |
| Total OC | 8.7050 | 0.4353 | | |
| Elemental Carbon | | | | |
| EC1 | 0.7684 | 0.0384 | | |
| EC2 | 0.6038 | 0.0302 | | |
| EC3 | 0.5050 | 0.0252 | | |
| Total EC | 1.8771 | 0.0939 | | |
| Total Carbon | 10.5821 | 0.5291 | | |
| Identified percentage of total mass | | | | |
| | 32.9798 | 4.5038 | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0040 | 0.0004 | | |
| n-Tritriacontane | 0.0040 | 0.0004 | | |
| n- Pentatriacontane | 0.0040 | 0.0004 | | |

| | |
|--------------------|--|
| Source Name | Coal Combustion-Power Plant-Delhi |
| Source Code | 12 |

Profile PM10
Location Delhi
Controls ESP

| Species | PMx | Uncertainty | PMy | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Hexadecanamide | 0.0040 | 0.0004 | | |
| Octadecanamide | 0.0040 | 0.0004 | | |
| Benzo[b]fluoranthene | 0.0040 | 0.0004 | | |
| Benzo[k]fluoranthene | 0.0040 | 0.0004 | | |
| Benzo[e]pyrene | 0.0040 | 0.0004 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0040 | 0.0004 | | |
| Indeno[1,2,3-cd]pyrene | 0.0040 | 0.0004 | | |
| Picene | 0.0040 | 0.0004 | | |
| Coronene | 0.0040 | 0.0004 | | |

| | |
|--------------------|---|
| Source Name | Coal Combustion-Power Plant-Kanpur |
| Source Code | 12 |

Profile PM10
Location Kanpur
Control ESP

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0045 | 0.0024 | | |
| Al | 0.0416 | 0.0030 | | |
| As | 0.0267 | 0.0036 | | |
| Ba | 0.0625 | 0.0045 | | |
| Ca | 0.7321 | 0.0521 | | |
| Cd | 0.0564 | 0.0041 | | |
| Ce | 0.0133 | 0.0054 | | |
| Co | 0.0017 | 0.0006 | | |
| Cr | 0.0164 | 0.0013 | | |
| Cu | 0.0397 | 0.0030 | | |
| Fe | 3.5098 | 0.2485 | | |
| Ga | 0.0049 | 0.0038 | | |
| Hf | 0.0044 | 0.0016 | | |
| Hg | 0.0068 | 0.0009 | | |
| In | 0.0724 | 0.0087 | | |
| K | 0.3135 | 0.0371 | | |
| Lu | 0.0001 | 0.0001 | | |
| Mg | 0.3330 | 0.0238 | | |
| Mn | 0.0387 | 0.0028 | | |
| Mo | 0.0028 | 0.0007 | | |
| Na | 0.0866 | 0.0082 | | |
| Ni | 0.0048 | 0.0039 | | |
| P | 0.2211 | 0.0178 | | |
| Pb | 10.4052 | 0.7383 | | |
| Pd | 0.0033 | 0.0021 | | |
| Sb | 0.0396 | 0.0045 | | |
| Sc | 0.0014 | 0.0002 | | |

| | |
|--------------------|---|
| Source Name | Coal Combustion-Power Plant-Kanpur |
| Source Code | 12 |

Profile PM10
Location Kanpur
Control ESP

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Se | 0.0064 | 0.0021 | | |
| Si | 0.0466 | 0.0042 | | |
| Sm | 0.0033 | 0.0023 | | |
| Sn | 0.2539 | 0.0187 | | |
| Sr | 0.0201 | 0.0014 | | |
| Th | 0.0019 | 0.0008 | | |
| Ti | 0.9810 | 0.0695 | | |
| V | 0.0138 | 0.0018 | | |
| W | 0.0065 | 0.0034 | | |
| Y | 0.0026 | 0.0003 | | |
| Zn | 0.0800 | 0.0057 | | |
| Zr | 0.0060 | 0.0006 | | |
| ANIONS | | | | |
| F | 0.3247 | 0.0235 | | |
| Cl | 0.3398 | 0.0419 | | |
| NO2 | 0.0475 | 0.0034 | | |
| Br | 0.0058 | 0.0027 | | |
| NO3 | 0.0883 | 0.0102 | | |
| PO4 | 0.0042 | 0.0024 | | |
| SO4 | 0.9103 | 0.0665 | | |
| CATIONS | | | | |
| Na | 0.0875 | 0.0539 | | |
| NH4 | 0.2742 | 0.0372 | | |
| K | 0.2321 | 0.0517 | | |
| Ca | 0.1067 | 0.0767 | | |
| Mg | 0.0288 | 0.0207 | | |
| Organic Carbon | | | | |
| OC1 | 0.0701 | 0.0035 | | |

| | |
|--------------------|---|
| Source Name | Coal Combustion-Power Plant-Kanpur |
| Source Code | 12 |

Profile PM10
Location Kanpur
Control ESP

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| OC2 | 0.1506 | 0.0075 | | |
| OC3 | 0.2672 | 0.0134 | | |
| OC4 | 0.1403 | 0.0070 | | |
| OP | 0.0883 | 0.0044 | | |
| Total OC | 0.8806 | 0.0440 | | |
| Elemental Carbon | | | | |
| EC1 | 0.2735 | 0.0137 | | |
| EC2 | 0.2053 | 0.0103 | | |
| EC3 | 0.0358 | 0.0018 | | |
| Total EC | 0.5146 | 0.0257 | | |
| Total Carbon | 1.3952 | 0.0698 | | |
| | | | | |
| Identified percentage of total mass | 21.1460 | | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0014 | 0.0001 | | |
| n-Tritriacontane | 0.0014 | 0.0001 | | |
| n- Pentatriacontane | 0.0014 | 0.0001 | | |
| Hexadecanamide | 0.0014 | 0.0001 | | |
| Octadecanamide | 0.0014 | 0.0001 | | |
| Benzo[b]fluoranthene | 0.0014 | 0.0001 | | |
| Benzo[k]fluoranthene | 0.0014 | 0.0001 | | |
| Benzo[e]pyrene | 0.0014 | 0.0001 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0014 | 0.0001 | | |
| Indeno[1,2,3-cd]pyrene | 0.0014 | 0.0001 | | |
| Picene | 0.0014 | 0.0001 | | |
| Coronene | 0.0014 | 0.0001 | | |

| | |
|--------------------|---|
| Source Name | Constnution and Aggregate Processing |
| Source Code | 43 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0038 | 0.0038 | | |
| Al | 0.0490 | 0.0490 | | |
| As | 0.0059 | 0.0059 | | |
| Ba | 0.0371 | 0.0371 | | |
| Ca | 3.3278 | 3.3278 | | |
| Cd | 0.0015 | 0.0015 | | |
| Ce | 0.0142 | 0.0142 | | |
| Co | 0.0016 | 0.0016 | | |
| Cr | 0.0106 | 0.0106 | | |
| Cu | 0.0045 | 0.0045 | | |
| Fe | 3.0423 | 3.0423 | | |
| Ga | 0.0018 | 0.0018 | | |
| Hf | 0.0042 | 0.0042 | | |
| Hg | 0.0016 | 0.0016 | | |
| In | 0.1381 | 0.1381 | | |
| K | 0.3419 | 0.3419 | | |
| Lu | 0.0002 | 0.0002 | | |
| Mg | 0.4879 | 0.4879 | | |
| Mn | 0.0459 | 0.0459 | | |
| Mo | 0.0017 | 0.0017 | | |
| Na | 0.6093 | 0.6093 | | |
| Ni | 0.0074 | 0.0074 | | |
| P | 0.0087 | 0.0087 | | |
| Pb | 0.0433 | 0.0433 | | |
| Pd | 0.0090 | 0.0090 | | |
| Sb | 0.0136 | 0.0136 | | |
| Sc | 0.0004 | 0.0004 | | |
| Se | 0.0063 | 0.0063 | | |
| Si | 0.1689 | 0.1689 | | |
| Sm | 0.0066 | 0.0066 | | |
| Sn | 1.5777 | 1.5777 | | |
| Sr | 0.0442 | 0.0442 | | |
| Th | 0.0028 | 0.0028 | | |
| Ti | 0.1476 | 0.1476 | | |

| | |
|--------------------|--|
| Source Name | Construction and Aggregate Processing |
| Source Code | 43 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0030 | 0.0030 | | |
| W | 0.0091 | 0.0091 | | |
| Y | 0.0007 | 0.0007 | | |
| Zn | 0.1779 | 0.1779 | | |
| Zr | 0.0035 | 0.0035 | | |
| ANIONS | | | | |
| F | 0.0981 | 0.0084 | | |
| Cl | 0.1685 | 0.0561 | | |
| NO2 | 0.0525 | 0.0037 | | |
| Br | 0.0079 | 0.0057 | | |
| NO3 | 0.8047 | 0.0647 | | |
| PO4 | 0.0392 | 0.0071 | | |
| SO4 | 3.2060 | 0.2314 | | |
| CATIONS | | | | |
| Na | 0.2485 | 0.1245 | | |
| NH4 | 0.2381 | 0.0603 | | |
| K | 0.1775 | 0.0941 | | |
| Ca | 12.8694 | 1.0299 | | |
| Mg | 0.0650 | 0.0467 | | |
| Organic Carbon | | | | |
| OC1 | 2.6587 | 0.1329 | | |
| OC2 | 1.9102 | 0.0955 | | |
| OC3 | 3.1867 | 0.1593 | | |
| OC4 | 0.8587 | 0.0429 | | |
| OP | 0.1791 | 0.0090 | | |
| Total OC | 8.7933 | 0.4397 | | |
| Elemental Carbon | | | | |
| EC1 | 1.0102 | 0.0505 | | |
| EC2 | 0.2893 | 0.0145 | | |
| EC3 | 0.1240 | 0.0062 | | |
| Total EC | 1.4235 | 0.0712 | | |
| Total Carbon | 10.2168 | 0.5108 | | |
| Identified percentage of total mass | 38.5538 | 12.6050 | | |

| | |
|--------------------|--|
| Source Name | Construction and Aggregate Processing |
| Source Code | 43 |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PM_x | Uncertainty | PM_x | Uncertainty |
|----------------|-----------------------|--------------------|-----------------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |

| Molecular Marker | | | | |
|---------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0076 | 0.0008 | | |
| n-Tritriacontane | 0.0076 | 0.0008 | | |
| n- Pentatriacontane | 0.0076 | 0.0008 | | |
| Hexadecanamide | 0.0076 | 0.0008 | | |
| Octadecanamide | 0.0076 | 0.0008 | | |
| Benzo[b]fluoranthene | 0.0076 | 0.0008 | | |
| Benzo[k]fluoranthene | 0.0076 | 0.0008 | | |
| Benzo[e]pyrene | 0.0076 | 0.0008 | | |
| eno[1,2,3-cd]fluoranthene | 0.0076 | 0.0008 | | |
| ndeno[1,2,3-cd]pyrene | 0.0076 | 0.0008 | | |
| Picene | 0.0076 | 0.0008 | | |
| Coronene | 0.0076 | 0.0008 | | |

| | |
|--------------------|--|
| Source Name | Diesel Industrial GENERATORS Large Stationary Diesel and All Stationary Dual-fuel Engines |
| Source Code | 21 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.1243 | 0.0918 | 0.1950 | 0.1048 |
| Al | 0.0277 | 0.0054 | 1.0770 | 0.0796 |
| As | 0.1475 | 0.0852 | 0.3739 | 0.1061 |
| Ba | 0.0116 | 0.0031 | 0.1310 | 0.0114 |
| Ca | 0.0271 | 0.0194 | 28.7272 | 2.0492 |
| Cd | 0.0159 | 0.0059 | 0.0930 | 0.0117 |
| Ce | 0.2813 | 0.2021 | 0.2731 | 0.2212 |
| Co | 0.0314 | 0.0226 | 0.0347 | 0.0249 |
| Cr | 0.0830 | 0.0128 | 1.2363 | 0.0945 |
| Cu | 0.0922 | 0.0146 | 1.4358 | 0.1092 |
| Fe | 0.6154 | 0.0593 | 184.2229 | 13.0418 |
| Ga | 0.1069 | 0.1485 | 0.1514 | 0.1657 |
| Hf | 0.2025 | 0.0664 | 0.2212 | 0.0733 |
| Hg | 0.0316 | 0.0227 | 0.7235 | 0.0722 |
| In | 0.1993 | 0.1791 | 2.4064 | 0.3409 |
| K | 0.4008 | 0.7222 | 2.2319 | 0.8982 |
| Lu | 0.0033 | 0.0024 | 0.0157 | 0.0034 |
| Mg | 0.0214 | 0.0154 | 0.5595 | 0.0538 |
| Mn | 0.0048 | 0.0034 | 1.0785 | 0.0791 |
| Mo | 0.1674 | 0.0327 | 0.1797 | 0.0356 |
| Na | 0.1883 | 0.1100 | 1.3390 | 0.1960 |
| Ni | 0.0971 | 0.1492 | 0.8436 | 0.2101 |
| P | 0.2174 | 0.1260 | 0.1898 | 0.1364 |
| Pb | 0.1348 | 0.1477 | 0.2099 | 0.1662 |
| Pd | 0.1411 | 0.0830 | 0.2380 | 0.0967 |
| Sb | 0.2410 | 0.0887 | 0.1819 | 0.0930 |
| Sc | 0.0060 | 0.0038 | 0.0058 | 0.0041 |
| Se | 0.6585 | 0.1077 | 0.5655 | 0.1088 |
| Si | 0.9011 | 0.1036 | 0.8323 | 0.1022 |
| Sm | 0.1299 | 0.0933 | 0.1435 | 0.1031 |
| Sn | 0.7018 | 0.0823 | 1.5019 | 0.1399 |
| Sr | 0.0020 | 0.0009 | 0.0553 | 0.0046 |
| Th | 0.1175 | 0.0336 | 0.1913 | 0.0407 |

| | |
|--------------------|--|
| Source Name | Diesel Industrial GENERATORS Large Stationary Diesel and All Stationary Dual-fuel Engines |
| Source Code | 21 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-------------------------|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Ti | 0.0213 | 0.0065 | 0.1228 | 0.0136 |
| V | 0.4749 | 0.0682 | 0.4400 | 0.0699 |
| W | 0.3419 | 0.1386 | 0.6668 | 0.1697 |
| Y | 0.0084 | 0.0060 | 0.0078 | 0.0066 |
| Zn | 0.0239 | 0.0054 | 2.6295 | 0.1894 |
| Zr | 0.0114 | 0.0100 | 0.0714 | 0.0144 |
| ANIONS | | | | |
| F | 0.0271 | 0.0301 | 0.0491 | 0.0353 |
| Cl | 5.6944 | 1.0622 | 5.3504 | 1.1293 |
| NO2 | 0.1575 | 0.0111 | 0.0737 | 0.0052 |
| Br | 0.3292 | 0.0999 | 0.4959 | 0.1207 |
| NO3 | 8.4464 | 0.7263 | 0.7707 | 0.2271 |
| PO4 | 0.1130 | 0.0812 | 0.1289 | 0.0926 |
| SO4 | 2.6541 | 0.2727 | 0.5676 | 0.1494 |
| CATIONS | | | | |
| Na | 4.9937 | 1.9892 | 4.9886 | 2.2253 |
| NH4 | 7.6642 | 1.1758 | 3.5308 | 1.0311 |
| K | 4.1570 | 1.5373 | 2.8770 | 1.6446 |
| Ca | 3.8250 | 2.6816 | 1.6876 | 2.9143 |
| Mg | 1.1191 | 0.7265 | 1.1438 | 0.8217 |
| Organic Carbon | | | | |
| OC1 | 3.3233 | 0.1662 | 4.8058 | 0.2403 |
| OC2 | 4.5819 | 0.2291 | 6.2528 | 0.3126 |
| OC3 | 4.2458 | 0.2123 | 4.9661 | 0.2483 |
| OC4 | 1.6625 | 0.0831 | 1.9480 | 0.0974 |
| OP | 2.6723 | 0.1336 | 3.1096 | 0.1555 |
| Total OC | 16.4857 | 0.8243 | 21.0823 | 1.0541 |
| Elemental Carbon | | | | |
| EC1 | 17.0459 | 0.8523 | 21.3437 | 1.0672 |
| EC2 | 14.3070 | 0.7153 | 19.1622 | 0.9581 |
| EC3 | 1.1836 | 0.0592 | 0.8451 | 0.0423 |
| Total EC | 32.5364 | 1.6268 | 41.3510 | 2.0675 |
| Total Carbon | 49.0221 | 2.4511 | 62.4333 | 3.1217 |

| | |
|--------------------|--|
| Source Name | Diesel Industrial GENERATORS Large Stationary Diesel and All Stationary Dual-fuel Engines |
| Source Code | 21 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PM_x | Uncertainty | PM_y | Uncertainty |
|--|-----------------------|--------------------|-----------------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Identified percentage of total mass | 95.2165 | | 319.7013 | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0031 | 0.0003 | | |
| n-Tritriacontane | 0.0031 | 0.0003 | | |
| n- Pentatriacontane | 0.0338 | 0.0034 | | |
| Hexadecanamide | 0.9135 | 0.0913 | | |
| Octadecanamide | 0.2154 | 0.0215 | | |
| Benzo[b]fluoranthene | 0.0031 | 0.0003 | | |
| Benzo[k]fluoranthene | 0.0031 | 0.0003 | | |
| Benzo[e]pyrene | 0.0031 | 0.0003 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0031 | 0.0003 | | |
| Indeno[1,2,3-cd]pyrene | 0.0031 | 0.0003 | | |
| Picene | 0.4415 | 0.0442 | | |
| Coronene | 0.0031 | 0.0003 | | |

| | |
|--------------------|-----------------------------|
| Source Name | Electric Arc Furnace |
| Source Code | 45 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0037 | 0.0041 | 0.0065 | 0.0059 |
| Al | 4.9772 | 0.3521 | 4.5453 | 0.3216 |
| As | 0.0786 | 0.0086 | 0.0929 | 0.0109 |
| Ba | 0.0241 | 0.0018 | 0.0231 | 0.0017 |
| Ca | 1.8492 | 0.1313 | 2.2654 | 0.1610 |
| Cd | 0.0201 | 0.0016 | 0.0126 | 0.0012 |
| Ce | 0.0220 | 0.0098 | 0.0301 | 0.0138 |
| Co | 0.0015 | 0.0010 | 0.0020 | 0.0015 |
| Cr | 0.0491 | 0.0037 | 0.0522 | 0.0041 |
| Cu | 0.1173 | 0.0086 | 0.1151 | 0.0086 |
| Fe | 47.3869 | 3.3513 | 43.4826 | 3.0755 |
| Ga | 0.0117 | 0.0072 | 0.0110 | 0.0098 |
| Hf | 0.0044 | 0.0028 | 0.0086 | 0.0040 |
| Hg | 0.0737 | 0.0060 | 0.0695 | 0.0060 |
| In | 1.1195 | 0.0849 | 1.2108 | 0.0937 |
| K | 4.3470 | 0.3314 | 4.5109 | 0.3534 |
| Lu | 0.0009 | 0.0002 | 0.0005 | 0.0002 |
| Mg | 1.7935 | 0.1273 | 1.7679 | 0.1257 |
| Mn | 4.8520 | 0.3432 | 4.4208 | 0.3127 |
| Mo | 0.0046 | 0.0013 | 0.0066 | 0.0019 |
| Na | 0.6687 | 0.0507 | 0.8144 | 0.0625 |
| Ni | 0.0218 | 0.0078 | 0.0220 | 0.0105 |
| P | 0.0410 | 0.0077 | 0.0268 | 0.0089 |
| Pb | 0.5200 | 0.0416 | 0.5233 | 0.0440 |
| Pd | 0.0267 | 0.0051 | 0.0320 | 0.0068 |
| Sb | 0.0052 | 0.0038 | 0.0062 | 0.0052 |
| Sc | 0.0002 | 0.0002 | 0.0003 | 0.0002 |
| Se | 0.0105 | 0.0038 | 0.0234 | 0.0059 |
| Si | 0.0571 | 0.0057 | 0.0741 | 0.0076 |

| | |
|--------------------|-----------------------------|
| Source Name | Electric Arc Furnace |
| Source Code | 45 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Sm | 0.0060 | 0.0043 | 0.0084 | 0.0060 |
| Sn | 0.0377 | 0.0043 | 0.0377 | 0.0049 |
| Sr | 0.0053 | 0.0004 | 0.0057 | 0.0004 |
| Th | 0.0023 | 0.0014 | 0.0038 | 0.0019 |
| Ti | 0.0593 | 0.0044 | 0.0584 | 0.0044 |
| V | 0.0089 | 0.0023 | 0.0151 | 0.0035 |
| W | 0.0617 | 0.0093 | 0.0390 | 0.0100 |
| Y | 0.0007 | 0.0003 | 0.0007 | 0.0004 |
| Zn | 1.0149 | 0.0719 | 1.0965 | 0.0777 |
| Zr | 0.0052 | 0.0007 | 0.0091 | 0.0012 |
| ANIONS | | | | |
| F | 0.3905 | 0.0286 | 0.3982 | 0.0296 |
| Cl | 0.4242 | 0.0597 | 0.3720 | 0.0703 |
| NO2 | 0.0071 | 0.0005 | 0.0114 | 0.0008 |
| Br | 0.0288 | 0.0056 | 0.0449 | 0.0081 |
| NO3 | 0.0114 | 0.0082 | 0.0162 | 0.0116 |
| PO4 | 0.0054 | 0.0039 | 0.0076 | 0.0055 |
| SO4 | 0.7549 | 0.0569 | 0.6998 | 0.0546 |
| CATIONS | | | | |
| Na | 0.9150 | 0.1370 | 0.9229 | 0.1706 |
| NH4 | 0.2349 | 0.0483 | 0.2022 | 0.0605 |
| K | 5.9033 | 0.4655 | 6.6069 | 0.5367 |
| Ca | 0.6555 | 0.1552 | 0.6469 | 0.2033 |
| Mg | 0.2235 | 0.0450 | 0.2906 | 0.0621 |
| Organic Carbon | | | | |
| OC1 | 0.0863 | 0.0043 | 0.1437 | 0.0072 |
| OC2 | 0.4507 | 0.0225 | 0.6298 | 0.0315 |
| OC3 | 1.2291 | 0.0615 | 1.4249 | 0.0712 |
| OC4 | 0.3171 | 0.0159 | 0.3639 | 0.0182 |
| OP | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | |
|--------------------|-----------------------------|
| Source Name | Electric Arc Furnace |
| Source Code | 45 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Total OC | 2.0832 | 0.1042 | 2.5623 | 0.1281 |
| Elemental Carbon | | | | |
| EC1 | 0.0511 | 0.0026 | 0.1261 | 0.0063 |
| EC2 | 0.0346 | 0.0017 | 0.0961 | 0.0048 |
| EC3 | 0.0000 | 0.0000 | 0.0044 | 0.0002 |
| Total EC | 0.0857 | 0.0043 | 0.2266 | 0.0113 |
| Total Carbon | 2.1689 | 0.1084 | 2.7888 | 0.1394 |
| | | | | |
| Identified percentage of total mass | 81.0132 | | 78.4394 | |
| | | | | |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0065 | 0.0006 | | |
| n-Tritriacontane | 0.0065 | 0.0006 | | |
| n- Pentatriacontane | 0.0065 | 0.0006 | | |
| Hexadecanamide | 0.0065 | 0.0006 | | |
| Octadecanamide | 0.0065 | 0.0006 | | |
| Benzo[b]fluoranthene | 0.0065 | 0.0006 | | |
| Benzo[k]fluoranthene | 0.0065 | 0.0006 | | |
| Benzo[e]pyrene | 0.0239 | 0.0024 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0065 | 0.0006 | | |
| Indeno[1,2,3-cd]pyrene | 0.1280 | 0.0128 | | |
| Picene | 0.0065 | 0.0006 | | |
| Coronene | 0.0065 | 0.0006 | | |

| | |
|--------------------|-------------------------------|
| Source Name | Fertilizer Plant Stack |
| Source Code | 6007 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0059 | 0.0043 | | |
| Al | 0.0058 | 0.0006 | | |
| As | 0.0054 | 0.0039 | | |
| Ba | 0.0201 | 0.0015 | | |
| Ca | 0.7463 | 0.0534 | | |
| Cd | 0.0008 | 0.0003 | | |
| Ce | 0.0130 | 0.0094 | | |
| Co | 0.0015 | 0.0010 | | |
| Cr | 0.0066 | 0.0008 | | |
| Cu | 0.0006 | 0.0004 | | |
| Fe | 0.7325 | 0.0524 | | |
| Ga | 0.0099 | 0.0071 | | |
| Hf | 0.0003 | 0.0026 | | |
| Hg | 0.0015 | 0.0011 | | |
| In | 0.0975 | 0.0136 | | |
| K | 0.3825 | 0.0551 | | |
| Lu | 0.0002 | 0.0001 | | |
| Mg | 0.0010 | 0.0007 | | |
| Mn | 0.0045 | 0.0004 | | |
| Mo | 0.0016 | 0.0011 | | |
| Na | 0.2094 | 0.0184 | | |
| Ni | 0.0060 | 0.0070 | | |
| P | 0.0195 | 0.0064 | | |
| Pb | 0.0287 | 0.0081 | | |
| Pd | 0.0053 | 0.0038 | | |
| Sb | 0.0226 | 0.0048 | | |
| Sc | 0.0000 | 0.0002 | | |
| Se | 0.0121 | 0.0039 | | |
| Si | 0.0322 | 0.0040 | | |
| Sm | 0.0060 | 0.0043 | | |
| Sn | 1.5442 | 0.1105 | | |
| Sr | 0.0010 | 0.0001 | | |
| Th | 0.0029 | 0.0014 | | |
| Ti | 0.0045 | 0.0005 | | |

| | |
|--------------------|-------------------------------|
| Source Name | Fertilizer Plant Stack |
| Source Code | 6007 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0028 | 0.0020 | | |
| W | 0.0084 | 0.0060 | | |
| Y | 0.0004 | 0.0003 | | |
| Zn | 0.1440 | 0.0103 | | |
| Zr | 0.0007 | 0.0005 | | |
| ANIONS | | | | |
| F | 0.1285 | 0.0103 | | |
| Cl | 11.3644 | 0.8330 | | |
| NO2 | 0.0135 | 0.0001 | | |
| Br | 0.0069 | 0.0050 | | |
| NO3 | 40.4648 | 2.8677 | | |
| PO4 | 3.7561 | 0.2686 | | |
| SO4 | 3.2440 | 0.2334 | | |
| CATIONS | | | | |
| Na | 0.3376 | 0.1151 | | |
| NH4 | 13.3951 | 0.9767 | | |
| K | 6.5220 | 0.5160 | | |
| Ca | 2.6025 | 0.2997 | | |
| Mg | 0.0113 | 0.0383 | | |
| Organic Carbon | | | | |
| OC1 | 1.7012 | 0.0851 | | |
| OC2 | 0.3887 | 0.0194 | | |
| OC3 | 0.3692 | 0.0185 | | |
| OC4 | 0.0591 | 0.0030 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 2.5183 | 0.1259 | | |
| Elemental Carbon | | | | |
| EC1 | 0.0404 | 0.0020 | | |
| EC2 | 0.0000 | 0.0000 | | |
| EC3 | 0.0022 | 0.0001 | | |
| Total EC | 0.0425 | 0.0021 | | |
| Total Carbon | 2.5608 | 0.1280 | | |
| Identified percentage of total mass | | | | |
| | 88.4954 | | | |

| | |
|--------------------|-------------------------------|
| Source Name | Fertilizer Plant Stack |
| Source Code | 6007 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0031 | 0.0003 | | |
| n-Tritriacontane | 0.0031 | 0.0003 | | |
| n- Pentatriacontane | 0.0031 | 0.0003 | | |
| Hexadecanamide | 0.0031 | 0.0003 | | |
| Octadecanamide | 0.0031 | 0.0003 | | |
| Benzo[b]fluoranthene | 0.0031 | 0.0003 | | |
| Benzo[k]fluoranthene | 0.0031 | 0.0003 | | |
| Benzo[e]pyrene | 0.0031 | 0.0003 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0031 | 0.0003 | | |
| Indeno[1,2,3-cd]pyrene | 0.0031 | 0.0003 | | |
| Picene | 0.0031 | 0.0003 | | |
| Coronene | 0.0031 | 0.0003 | | |

| | |
|--------------------|--|
| Source Name | Fuel Oil Combustion (Furnace Oil) |
| Source Code | 2 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0046 | 0.0044 | 0.0083 | 0.0059 |
| Al | 0.0045 | 0.0005 | 0.0041 | 0.0005 |
| As | 0.0241 | 0.0052 | 0.1121 | 0.0122 |
| Ba | 0.0001 | 0.0001 | 0.0019 | 0.0003 |
| Ca | 0.2142 | 0.0159 | 0.3845 | 0.0281 |
| Cd | 0.0029 | 0.0004 | 0.0019 | 0.0004 |
| Ce | 0.0137 | 0.0099 | 0.0135 | 0.0128 |
| Co | 0.0015 | 0.0011 | 0.0020 | 0.0015 |
| Cr | 0.0006 | 0.0004 | 0.0109 | 0.0012 |
| Cu | 0.0017 | 0.0005 | 0.0018 | 0.0007 |
| Fe | 0.0690 | 0.0057 | 0.1663 | 0.0128 |
| Ga | 0.0033 | 0.0072 | 0.0149 | 0.0100 |
| Hf | 0.0091 | 0.0032 | 0.0109 | 0.0042 |
| Hg | 0.0015 | 0.0011 | 0.0020 | 0.0015 |
| In | 0.0166 | 0.0091 | 0.0188 | 0.0119 |
| K | 0.0533 | 0.0371 | 0.0559 | 0.0481 |
| Lu | 0.0002 | 0.0001 | 0.0004 | 0.0002 |
| Mg | 0.0318 | 0.0028 | 0.0413 | 0.0037 |
| Mn | 0.0012 | 0.0002 | 0.0016 | 0.0003 |
| Mo | 0.0078 | 0.0016 | 0.0117 | 0.0022 |
| Na | 0.2345 | 0.0204 | 0.1345 | 0.0148 |
| Ni | 0.2989 | 0.0266 | 0.2554 | 0.0255 |
| P | 0.0172 | 0.0065 | 0.0521 | 0.0104 |
| Pb | 0.0103 | 0.0074 | 0.0116 | 0.0097 |
| Pd | 0.0057 | 0.0040 | 0.0136 | 0.0056 |
| Sb | 0.0098 | 0.0042 | 0.0051 | 0.0051 |
| Sc | 0.0003 | 0.0002 | 0.0005 | 0.0003 |
| Se | 0.0193 | 0.0045 | 0.0240 | 0.0059 |
| Si | 0.0565 | 0.0058 | 0.1068 | 0.0099 |
| Sm | 0.0063 | 0.0046 | 0.0084 | 0.0060 |

| | |
|--------------------|--|
| Source Name | Fuel Oil Combustion (Furnace Oil) |
| Source Code | 2 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Sn | 0.0247 | 0.0034 | 0.0346 | 0.0047 |
| Sr | 0.0007 | 0.0001 | 0.0004 | 0.0001 |
| Th | 0.0246 | 0.0029 | 0.0045 | 0.0020 |
| Ti | 0.0131 | 0.0011 | 0.0262 | 0.0021 |
| V | 0.6553 | 0.0477 | 0.6126 | 0.0452 |
| W | 0.0102 | 0.0064 | 0.0359 | 0.0097 |
| Y | 0.0011 | 0.0003 | 0.0005 | 0.0004 |
| Zn | 0.0462 | 0.0034 | 0.0458 | 0.0035 |
| Zr | 0.0019 | 0.0006 | 0.0055 | 0.0009 |
| ANIONS | | | | |
| F | 0.0395 | 0.0040 | 0.0523 | 0.0054 |
| Cl | 0.1926 | 0.0481 | 0.3307 | 0.0704 |
| NO2 | 0.0093 | 0.0007 | 0.0127 | 0.0009 |
| Br | 0.0963 | 0.0102 | 0.1122 | 0.0129 |
| NO3 | 0.0403 | 0.0104 | 0.0658 | 0.0152 |
| PO4 | 0.0057 | 0.0041 | 0.0080 | 0.0058 |
| SO4 | 30.0644 | 2.1295 | 35.0042 | 2.4802 |
| CATIONS | | | | |
| Na | 0.5494 | 0.1184 | 0.4674 | 0.1476 |
| NH4 | 0.7203 | 0.0815 | 0.7670 | 0.0979 |
| K | 0.0659 | 0.0700 | 0.1598 | 0.1012 |
| Ca | 0.0858 | 0.1305 | 0.2346 | 0.1881 |
| Mg | 0.0510 | 0.0366 | 0.0711 | 0.0511 |
| Organic Compounds | | | | |
| OC1 | 0.7988 | 0.0399 | 0.9215 | 0.0461 |
| OC2 | 0.3578 | 0.0179 | 0.6043 | 0.0302 |
| OC3 | 1.4673 | 0.0734 | 0.5661 | 0.0283 |
| OC4 | 0.8485 | 0.0424 | 0.5321 | 0.0266 |
| OP | 0.2617 | 0.0131 | 0.2234 | 0.0112 |
| Total OC | 3.7342 | 0.1867 | 2.8474 | 0.1424 |

| | |
|--------------------|--|
| Source Name | Fuel Oil Combustion (Furnace Oil) |
| Source Code | 2 |

Profile PM10 and PM2.5
Location Bangalore
Control Uncontrolled

| Species | PMx | Uncertainty | PMy | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elemental Carbon | | | | |
| EC1 | 15.4987 | 0.7749 | 1.9021 | 0.0951 |
| EC2 | 0.7780 | 0.0389 | 0.6014 | 0.0301 |
| EC3 | 0.1471 | 0.0074 | 0.0000 | 0.0000 |
| Total EC | 16.4238 | 0.8212 | 2.5035 | 0.1252 |
| Total TC | 20.1580 | 1.0079 | 5.3509 | 0.2675 |
| | | | | |
| Identified percentage of total mass | 53.9770 | 3.9086 | 44.8793 | 3.7641 |
| | | | | |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0089 | 0.0009 | | |
| n-Tritriacontane | 0.0037 | 0.0004 | | |
| n- Pentatriacontane | 0.0037 | 0.0004 | | |
| Hexadecanamide | 0.0037 | 0.0004 | | |
| Octadecanamide | 0.0037 | 0.0004 | | |
| Benzo[b]fluoranthene | 0.0037 | 0.0004 | | |
| Benzo[k]fluoranthene | 0.0037 | 0.0004 | | |
| Benzo[e]pyrene | 0.0037 | 0.0004 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0037 | 0.0004 | | |
| Indeno[1,2,3-cd]pyrene | 0.0037 | 0.0004 | | |
| Picene | 0.0037 | 0.0004 | | |
| Coronene | 0.0037 | 0.0004 | | |

| | | | |
|--------------------|--|--|--|
| Source Name | Fugitive Rock Phosphate Emissions from Fertilizer Plant | | |
| Source Code | 6005 | | |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0063 | 0.0045 | | |
| Al | 0.0133 | 0.0011 | | |
| As | 0.0057 | 0.0041 | | |
| Ba | 0.0228 | 0.0017 | | |
| Ca | 3.1689 | 0.2247 | | |
| Cd | 0.0035 | 0.0005 | | |
| Ce | 0.0137 | 0.0099 | | |
| Co | 0.0015 | 0.0011 | | |
| Cr | 0.0365 | 0.0029 | | |
| Cu | 0.0030 | 0.0006 | | |
| Fe | 1.6994 | 0.1208 | | |
| Ga | 0.0030 | 0.0071 | | |
| Hf | 0.0040 | 0.0029 | | |
| Hg | 0.0015 | 0.0011 | | |
| In | 0.1170 | 0.0153 | | |
| K | 0.1637 | 0.0432 | | |
| Lu | 0.0002 | 0.0001 | | |
| Mg | 1.8246 | 0.1295 | | |
| Mn | 0.0117 | 0.0009 | | |
| Mo | 0.0012 | 0.0012 | | |
| Na | 0.4928 | 0.0385 | | |
| Ni | 0.0136 | 0.0077 | | |
| P | 6.1083 | 0.4359 | | |
| Pb | 0.0282 | 0.0084 | | |
| Pd | 0.0064 | 0.0040 | | |
| Sb | 0.0055 | 0.0040 | | |
| Sc | 0.0004 | 0.0002 | | |
| Se | 0.0065 | 0.0037 | | |
| Si | 0.1478 | 0.0121 | | |
| Sm | 0.0003 | 0.0042 | | |
| Sn | 0.9511 | 0.0686 | | |
| Sr | 0.1006 | 0.0071 | | |
| Th | 0.0026 | 0.0015 | | |
| Ti | 0.0192 | 0.0015 | | |

| | | | | |
|--------------------|--|--|--|--|
| Source Name | Fugitive Rock Phosphate Emissions from Fertilizer Plant | | | |
| Source Code | 6005 | | | |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0029 | 0.0021 | | |
| W | 0.0088 | 0.0063 | | |
| Y | 0.0120 | 0.0011 | | |
| Zn | 0.1538 | 0.0110 | | |
| Zr | 0.0007 | 0.0005 | | |
| ANIONS | | | | |
| F | 1.6799 | 0.1199 | | |
| Cl | 0.0157 | 0.0406 | | |
| NO2 | 0.0132 | 0.0003 | | |
| Br | 0.0067 | 0.0048 | | |
| NO3 | 0.0132 | 0.0095 | | |
| PO4 | 17.6067 | 1.2479 | | |
| SO4 | 34.3005 | 2.4293 | | |
| CATIONS | | | | |
| Na | 0.1935 | 0.1045 | | |
| NH4 | 0.0073 | 0.0403 | | |
| K | 0.2213 | 0.0836 | | |
| Ca | 11.5168 | 0.9156 | | |
| Mg | 0.8457 | 0.0896 | | |
| Organic Carbon | | | | |
| OC1 | 0.1415 | 0.0059 | | |
| OC2 | 0.4524 | 0.0190 | | |
| OC3 | 4.3824 | 0.1841 | | |
| OC4 | 0.3828 | 0.0161 | | |
| OP | 0.9535 | 0.0401 | | |
| Total OC | 6.3126 | 0.2653 | | |
| Elemental Carbon | | | | |
| EC1 | 0.0000 | 0.0000 | | |
| EC2 | 0.5962 | 0.0251 | | |
| EC3 | 0.1206 | 0.0051 | | |
| Total EC | 0.0302 | 0.0013 | | |
| Total Carbon | 6.3428 | 0.2665 | | |
| Identified percentage of total mass | | | | |
| | 88.6131 | | | |

| | | | |
|--------------------|--|--|--|
| Source Name | Fugitive Rock Phosphate Emissions from Fertilizer Plant | | |
| Source Code | 6005 | | |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0018 | 0.0002 | | |
| n- Tritriacontane | 0.0018 | 0.0002 | | |
| n- Pentatriacontane | 0.0018 | 0.0002 | | |
| Hexadecanamide | 0.0018 | 0.0002 | | |
| Octadecanamide | 0.0018 | 0.0002 | | |
| Benzo[b]fluoranthene | 0.0018 | 0.0002 | | |
| Benzo[k]fluoranthene | 0.0018 | 0.0002 | | |
| Benzo[e]pyrene | 0.0018 | 0.0002 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0018 | 0.0002 | | |
| Indeno[1,2,3-cd]pyrene | 0.0018 | 0.0002 | | |
| Picene | 0.0018 | 0.0002 | | |
| Coronene | 0.0018 | 0.0002 | | |

| | |
|--------------------|--------------------------------|
| Source Name | Garden Waste Combustion |
| Source Code | 5001 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0103 | 0.0181 | | |
| Al | 0.0063 | 0.0459 | | |
| As | 0.0128 | 0.0145 | | |
| Ba | 0.0423 | 0.0067 | | |
| Ca | 0.4154 | 0.2410 | | |
| Cd | 0.0070 | 0.0020 | | |
| Ce | 0.0310 | 0.0334 | | |
| Co | 0.0035 | 0.0060 | | |
| Cr | 0.0142 | 0.8266 | | |
| Cu | 0.0161 | 0.0128 | | |
| Fe | 0.1597 | 3.3317 | | |
| Ga | 0.0236 | 0.0255 | | |
| Hf | 0.0045 | 0.0097 | | |
| Hg | 0.0035 | 0.0082 | | |
| In | 0.1702 | 0.0532 | | |
| K | 3.3455 | 0.3258 | | |
| Lu | 0.0004 | 0.0004 | | |
| Mg | 0.0390 | 0.0245 | | |
| Mn | 0.0015 | 0.0470 | | |
| Mo | 0.0031 | 0.0049 | | |
| Na | 0.3201 | 0.1372 | | |
| Ni | 0.0238 | 0.3287 | | |
| P | 0.0189 | 0.0330 | | |
| Pb | 0.4055 | 0.0619 | | |
| Pd | 0.0123 | 0.0174 | | |
| Sb | 0.0176 | 0.0159 | | |
| Sc | 0.0003 | 0.0006 | | |

| | |
|--------------------|--------------------------------|
| Source Name | Garden Waste Combustion |
| Source Code | 5001 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Se | 0.0115 | 0.0125 | | |
| Si | 0.8430 | 0.0531 | | |
| Sm | 0.0143 | 0.0154 | | |
| Sn | 2.3092 | 0.3244 | | |
| Sr | 0.0015 | 0.0007 | | |
| Th | 0.0071 | 0.0050 | | |
| Ti | 0.0154 | 0.0037 | | |
| V | 0.0066 | 0.0071 | | |
| W | 0.0199 | 0.0214 | | |
| Y | 0.0009 | 0.0010 | | |
| Zn | 0.2660 | 0.0394 | | |
| Zr | 0.0016 | 0.0018 | | |
| ANIONS | | | | |
| F | 0.0886 | 0.0090 | | |
| Cl | 5.8684 | 0.4789 | | |
| NO2 | 0.0279 | 0.0020 | | |
| Br | 0.0328 | 0.0113 | | |
| NO3 | 0.4911 | 0.0503 | | |
| PO4 | 0.3379 | 0.0318 | | |
| SO4 | 0.9886 | 0.0787 | | |
| CATIONS | | | | |
| Na | 0.4112 | 0.2215 | | |
| NH4 | 0.5813 | 0.1186 | | |
| K | 4.4678 | 0.4395 | | |
| Ca | 0.4322 | 0.3105 | | |
| Mg | 0.1115 | 0.0835 | | |
| Organic Carbon | | | | |
| OC1 | 12.0287 | 0.6014 | | |

| | |
|--------------------|--------------------------------|
| Source Name | Garden Waste Combustion |
| Source Code | 5001 |

| Profile | PM10 | | | |
|--|-----------------------|--------------------|----------------|--------------------|
| Location | Laboratory | | | |
| Control | Not Applicable | | | |
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| OC2 | 9.6518 | 0.4826 | | |
| OC3 | 10.0349 | 0.5017 | | |
| OC4 | 4.8294 | 0.2415 | | |
| OP | 8.2413 | 0.4121 | | |
| Total OC | 44.7861 | 2.2393 | | |
| Elemental Carbon | | | | |
| EC1 | 16.9844 | 0.8492 | | |
| EC2 | 0.4914 | 0.0246 | | |
| EC3 | 0.2429 | 0.0121 | | |
| Total EC | 17.7188 | 0.8859 | | |
| Total Carbon | 62.5049 | 3.1252 | | |
| | | | | |
| Identified percentage of total mass | 84.9494 | 11.0787 | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0056 | 0.0006 | | |
| n-Tritriacontane | 0.0056 | 0.0006 | | |
| n- Pentatriacontane | 0.0056 | 0.0006 | | |
| Hexadecanamide | 0.0056 | 0.0006 | | |
| Octadecanamide | 0.0056 | 0.0006 | | |
| Benzo[b]fluoranthene | 0.0056 | 0.0006 | | |
| Benzo[k]fluoranthene | 0.1259 | 0.0126 | | |
| Benzo[e]pyrene | 0.0056 | 0.0006 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0056 | 0.0006 | | |
| Indeno[1,2,3-cd]pyrene | 0.0056 | 0.0006 | | |
| Picene | 0.0056 | 0.0006 | | |
| Coronene | 0.3171 | 0.0317 | | |

| | |
|--------------------|---------------------------------------|
| Source Name | Kerosene Combustion (Domestic) |
| Source Code | 7 |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.1674 | 0.1286 | 0.1412 | 0.1759 |
| Al | 0.0360 | 0.0075 | 1.1585 | 0.0883 |
| As | 0.2039 | 0.1196 | 0.2097 | 0.1641 |
| Ba | 0.0284 | 0.0051 | 0.2039 | 0.0183 |
| Ca | 0.0380 | 0.0273 | 32.8701 | 2.3545 |
| Cd | 0.0108 | 0.0076 | 0.0412 | 0.0125 |
| Ce | 0.3951 | 0.2839 | 0.4805 | 0.3951 |
| Co | 0.0441 | 0.0317 | 0.0644 | 0.0447 |
| Cr | 0.0491 | 0.0134 | 10.1592 | 0.7300 |
| Cu | 0.1263 | 0.0199 | 4.2043 | 0.3112 |
| Fe | 0.3607 | 0.0486 | 92.6787 | 6.5831 |
| Ga | 0.1348 | 0.2078 | 0.4512 | 0.3058 |
| Hf | 0.1395 | 0.0849 | 0.1637 | 0.1177 |
| Hg | 0.0444 | 0.0319 | 0.1482 | 0.0498 |
| In | 1.3370 | 0.3137 | 16.7057 | 1.4609 |
| K | 1.2834 | 1.0522 | 2.4533 | 1.5140 |
| Lu | 0.0042 | 0.0033 | 0.0054 | 0.0046 |
| Mg | 0.1227 | 0.0275 | 0.8418 | 0.0842 |
| Mn | 0.0102 | 0.0049 | 1.0613 | 0.0803 |
| Mo | 0.0788 | 0.0365 | 0.1229 | 0.0520 |
| Na | 0.3116 | 0.1571 | 3.6194 | 0.4225 |
| Ni | 0.2822 | 0.2171 | 6.5192 | 0.7106 |
| P | 0.3688 | 0.1806 | 0.9999 | 0.2819 |
| Pb | 0.2373 | 0.2099 | 0.5272 | 0.3057 |
| Pd | 0.1386 | 0.1133 | 0.2925 | 0.1649 |
| Sb | 0.1781 | 0.1154 | 0.2312 | 0.1610 |
| Sc | 0.0053 | 0.0052 | 0.0086 | 0.0073 |
| Se | 0.6137 | 0.1323 | 0.5104 | 0.1650 |
| Si | 0.3767 | 0.0853 | 0.5868 | 0.1240 |
| Sm | 0.1825 | 0.1311 | 0.2565 | 0.1843 |
| Sn | 0.4017 | 0.0787 | 1.0407 | 0.1411 |
| Sr | 0.0014 | 0.0011 | 0.0824 | 0.0071 |
| Th | 0.1874 | 0.0484 | 0.1751 | 0.0629 |
| Ti | 0.0265 | 0.0089 | 0.1770 | 0.0218 |
| V | 0.3148 | 0.0743 | 0.6331 | 0.1153 |
| W | 0.2976 | 0.1843 | 0.4851 | 0.2628 |
| Y | 0.0139 | 0.0086 | 0.0249 | 0.0124 |
| Zn | 1.7006 | 0.1243 | 14.7051 | 1.0454 |

| | |
|--------------------|---------------------------------------|
| Source Name | Kerosene Combustion (Domestic) |
| Source Code | 7 |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|----------|-------------|----------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Zr | 0.0278 | 0.0146 | 0.0423 | 0.0209 |
| ANIONS | | | | |
| F | 0.2069 | 0.0502 | 16.6231 | 1.2912 |
| Cl | 7.2473 | 1.4057 | 12.6493 | 4.5572 |
| NO2 | 0.4976 | 0.0352 | 1.2419 | 0.0878 |
| Br | 0.1650 | 0.1185 | 0.6496 | 0.4667 |
| NO3 | 0.3230 | 0.2320 | 8.1998 | 1.3779 |
| PO4 | 0.1520 | 0.1092 | 0.5985 | 0.4299 |
| SO4 | 12.4134 | 0.9792 | 39.0546 | 3.1637 |
| CATIONS | | | | |
| Na | 3.0348 | 2.4707 | 14.8201 | 9.8763 |
| NH4 | 1.4695 | 1.0557 | 5.4688 | 4.1407 |
| K | 2.6402 | 1.8967 | 10.3970 | 7.4693 |
| Ca | 10.4841 | 3.9021 | 26.6147 | 14.5248 |
| Mg | 3.0876 | 1.0671 | 6.3266 | 3.8694 |
| Organic Carbon | | | | |
| OC1 | 25.8752 | 1.2938 | 18.5636 | 0.9282 |
| OC2 | 26.8054 | 1.3403 | 17.3896 | 0.8695 |
| OC3 | 26.1067 | 1.3053 | 16.9920 | 0.8496 |
| OC4 | 11.6864 | 0.5843 | 6.3552 | 0.3178 |
| OP | 6.4257 | 0.3213 | 3.2773 | 0.1639 |
| Total OC | 96.8993 | 4.8450 | 62.5778 | 3.1289 |
| Elemental Carbon | | | | |
| EC1 | 42.3574 | 2.1179 | 26.9907 | 1.3495 |
| EC2 | 7.9898 | 0.3995 | 3.9691 | 0.1985 |
| EC3 | 2.3284 | 0.1164 | 1.0095 | 0.0505 |
| Total EC | 52.6756 | 2.6338 | 31.9693 | 1.5985 |
| Total Carbon | 149.5749 | 7.4787 | 94.5470 | 4.7274 |
| Identified percentage of total mass | | | | |
| | 201.5776 | | 432.2735 | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0054 | 0.0005 | | |
| n- Triacontane | 0.0054 | 0.0005 | | |
| n- Pentatriacontane | 0.0054 | 0.0005 | | |
| Hexadecanamide | 0.0054 | 0.0005 | | |
| Octadecanamide | 0.0054 | 0.0005 | | |

| | |
|--------------------|---------------------------------------|
| Source Name | Kerosene Combustion (Domestic) |
| Source Code | 7 |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Benzo[b]fluoranthene | 0.0054 | 0.0005 | | |
| Benzo[k]fluoranthene | 0.0054 | 0.0005 | | |
| Benzo[e]pyrene | 0.0054 | 0.0005 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0054 | 0.0005 | | |
| Indeno[1,2,3-cd]pyrene | 0.0054 | 0.0005 | | |
| Picene | 0.0054 | 0.0005 | | |
| Coronene | 0.0054 | 0.0005 | | |

| | | |
|--------------------|-------------------------------------|--|
| Source Name | Kerosene Generator-80 % load | |
| Source Code | 20 | |

Profile for
Location
Controls

PM10
Laboratory
Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0032 | 0.0076 | | |
| Al | 0.0078 | 0.0008 | | |
| As | 0.0084 | 0.0072 | | |
| Ba | 0.0293 | 0.0022 | | |
| Ca | 1.7128 | 0.1224 | | |
| Cd | 0.0019 | 0.0006 | | |
| Ce | 0.0246 | 0.0176 | | |
| Co | 0.0027 | 0.0020 | | |
| Cr | 0.0061 | 0.0010 | | |
| Cu | 0.0150 | 0.0017 | | |
| Fe | 0.8503 | 0.0614 | | |
| Ga | 0.0074 | 0.0129 | | |
| Hf | 0.0078 | 0.0052 | | |
| Hg | 0.0028 | 0.0020 | | |
| In | 0.1099 | 0.0211 | | |
| K | 0.1128 | 0.0672 | | |
| Lu | 0.0003 | 0.0002 | | |
| Mg | 0.0128 | 0.0020 | | |
| Mn | 0.0050 | 0.0006 | | |
| Mo | 0.0030 | 0.0022 | | |
| Na | 0.0674 | 0.0127 | | |
| Ni | 0.0081 | 0.0130 | | |
| P | 0.0150 | 0.0108 | | |
| Pb | 0.0762 | 0.0166 | | |
| Pd | 0.0099 | 0.0071 | | |
| Sb | 0.0236 | 0.0079 | | |
| Sc | 0.0001 | 0.0003 | | |
| Se | 0.0092 | 0.0065 | | |
| Si | 0.1503 | 0.0139 | | |
| Sm | 0.0113 | 0.0081 | | |
| Sn | 1.6794 | 0.1214 | | |
| Sr | 0.0018 | 0.0002 | | |
| Th | 0.0027 | 0.0025 | | |
| Ti | 0.0072 | 0.0009 | | |
| V | 0.0052 | 0.0037 | | |
| W | 0.0157 | 0.0113 | | |
| Y | 0.0007 | 0.0005 | | |

| | | |
|--------------------|-------------------------------------|--|
| Source Name | Kerosene Generator-80 % load | |
| Source Code | 20 | |

Profile for
Location
Controls

PM10
Laboratory
Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Zn | 0.1614 | 0.0117 | | |
| Zr | 0.0010 | 0.0009 | | |
| ANIONS | | | | |
| F | 0.0372 | 0.0050 | | |
| Cl | 0.4620 | 0.0959 | | |
| NO2 | 0.0169 | 0.0003 | | |
| Br | 0.0067 | 0.0082 | | |
| NO3 | 0.2782 | 0.0337 | | |
| PO4 | 0.0109 | 0.0078 | | |
| SO4 | 0.2015 | 0.0222 | | |
| CATIONS | | | | |
| Na | 0.3605 | 0.1844 | | |
| NH4 | 0.0158 | 0.0709 | | |
| K | 0.1529 | 0.1338 | | |
| Ca | 3.3449 | 0.4389 | | |
| Mg | 0.0965 | 0.0693 | | |
| Organic Carbon | | | | |
| OC1 | 39.1658 | 1.9583 | | |
| OC2 | 19.5007 | 0.9750 | | |
| OC3 | 3.9160 | 0.1958 | | |
| OC4 | 0.8217 | 0.0411 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 63.4043 | 3.1702 | | |
| Elemental Carbon | | | | |
| EC1 | 0.7424 | 0.0371 | | |
| EC2 | 0.0000 | 0.0000 | | |
| EC3 | 0.0000 | 0.0000 | | |
| Total EC | 0.7424 | 0.0371 | | |
| Total Carbon | 64.1467 | 3.2073 | | |

| | | | | |
|--|---------|--------|--|--|
| Identified percentage of total mass | 74.3007 | 4.8657 | | |
|--|---------|--------|--|--|

| Molecular marker | | | | |
|-------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0026 | 0.0003 | | |
| n-Tritriacontane | 0.0026 | 0.0003 | | |
| n- Pentatriacontane | 0.0026 | 0.0003 | | |

| | | | | |
|--------------------|-------------------------------------|--------------------|----------------|--------------------|
| Source Name | Kerosene Generator-Full Load | | | |
| Source Code | 20 | | | |
| Profile for | PM10 | | | |
| Location | Laboratory | | | |
| Controls | Not Applicable | | | |
| Species | PMx | Uncertainty | PMy | Uncertainty |
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0310 | 0.0265 | | |
| Al | 0.0462 | 0.0041 | | |
| As | 0.0235 | 0.0238 | | |
| Ba | 0.1788 | 0.0132 | | |
| Ca | 4.9278 | 0.3522 | | |
| Cd | 0.0132 | 0.0023 | | |
| Ce | 0.0822 | 0.0590 | | |
| Co | 0.0092 | 0.0066 | | |
| Cr | 0.0286 | 0.0039 | | |
| Cu | 0.0860 | 0.0082 | | |
| Fe | 7.1322 | 0.5080 | | |
| Ga | 0.0339 | 0.0435 | | |
| Hf | 0.0232 | 0.0173 | | |
| Hg | 0.0092 | 0.0066 | | |
| In | 0.6931 | 0.0909 | | |
| K | 0.8430 | 0.2513 | | |
| Lu | 0.0010 | 0.0007 | | |
| Mg | 0.1192 | 0.0122 | | |
| Mn | 0.0373 | 0.0033 | | |
| Mo | 0.0101 | 0.0072 | | |
| Na | 0.6939 | 0.0737 | | |
| Ni | 0.0292 | 0.0436 | | |
| P | 0.0502 | 0.0361 | | |
| Pb | 0.6324 | 0.0794 | | |
| Pd | 0.0331 | 0.0238 | | |
| Sb | 0.0338 | 0.0238 | | |
| Sc | 0.0010 | 0.0011 | | |
| Se | 0.0304 | 0.0219 | | |
| Si | 0.4440 | 0.0427 | | |
| Sm | 0.0380 | 0.0273 | | |
| Sn | 5.0797 | 0.3672 | | |
| Sr | 0.0060 | 0.0006 | | |
| Th | 0.0082 | 0.0083 | | |
| Ti | 0.0445 | 0.0044 | | |

| | | | | |
|-------------------------------------|-------------------------------------|--------------------|----------------|--------------------|
| Source Name | Kerosene Generator-Full Load | | | |
| Source Code | 20 | | | |
| Profile for | PM10 | | | |
| Location | Laboratory | | | |
| Controls | Not Applicable | | | |
| Species | PMx | Uncertainty | PMy | Uncertainty |
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| V | 0.0174 | 0.0125 | | |
| W | 0.0526 | 0.0378 | | |
| Y | 0.0025 | 0.0018 | | |
| Zn | 0.9494 | 0.0680 | | |
| Zr | 0.0048 | 0.0030 | | |
| ANIONS | | | | |
| F | 0.0842 | 0.0139 | | |
| Cl | 0.7437 | 0.2677 | | |
| NO2 | 0.0754 | 0.0012 | | |
| Br | 0.0561 | 0.0287 | | |
| NO3 | 0.0754 | 0.0542 | | |
| PO4 | 0.0350 | 0.0255 | | |
| SO4 | 0.8044 | 0.0826 | | |
| CATIONS | | | | |
| Na | 0.5883 | 0.5703 | | |
| NH4 | 0.0312 | 0.2303 | | |
| K | 0.5700 | 0.4406 | | |
| Ca | 11.0094 | 1.4386 | | |
| Mg | 0.3148 | 0.2262 | | |
| Organic Carbon | | | | |
| OC1 | 35.6235 | 1.7812 | | |
| OC2 | 18.6342 | 0.9317 | | |
| OC3 | 9.5227 | 0.4761 | | |
| OC4 | 2.6404 | 0.1320 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 66.4208 | 3.3210 | | |
| Elemental Carbon | | | | |
| EC1 | 4.8912 | 0.2446 | | |
| EC2 | 0.0433 | 0.0022 | | |
| EC3 | 0.0216 | 0.0011 | | |
| Total EC | 4.9561 | 0.2478 | | |
| Total Carbon | 71.3769 | 3.5688 | | |
| Identified percentage of total mass | 108.2445 | | | |

| | | | | |
|----------------------------|-------------------------------------|--------------------|----------------|--------------------|
| Source Name | Kerosene Generator-Full Load | | | |
| Source Code | 20 | | | |
| Profile for | PM10 | | | |
| Location | Laboratory | | | |
| Controls | Not Applicable | | | |
| Species | PMx | Uncertainty | PMy | Uncertainty |
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0616 | 0.0062 | | |
| n-Tritriacontane | 0.0935 | 0.0093 | | |
| n- Pentatriacontane | 0.0042 | 0.0004 | | |
| Hexadecanamide | 0.1901 | 0.0190 | | |
| Octadecanamide | 0.1444 | 0.0144 | | |
| Benzo[b]fluoranthene | 0.0042 | 0.0004 | | |
| Benzo[k]fluoranthene | 0.0145 | 0.0014 | | |
| Benzo[e]pyrene | 0.0042 | 0.0004 | | |
| deno[1,2,3-cd]fluoranthene | 0.0341 | 0.0034 | | |
| Indeno[1,2,3-cd]pyrene | 0.0042 | 0.0004 | | |
| Picene | 0.0042 | 0.0004 | | |
| Coronene | 0.0042 | 0.0004 | | |

| | | |
|--------------------|-----------------------------------|--|
| Source Name | Kerosene Generator-No Load | |
| Source Code | 20 | |

**Profile for
Location
Controls**

**PM10
Laboratory
Not Applicable**

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0009 | 0.0009 | | |
| Al | 0.0009 | 0.0001 | | |
| As | 0.0011 | 0.0008 | | |
| Ba | 0.0046 | 0.0003 | | |
| Ca | 0.2446 | 0.0174 | | |
| Cd | 0.0002 | 0.0001 | | |
| Ce | 0.0027 | 0.0020 | | |
| Co | 0.0003 | 0.0002 | | |
| Cr | 0.0010 | 0.0001 | | |
| Cu | 0.0022 | 0.0002 | | |
| Fe | 0.1295 | 0.0093 | | |
| Ga | 0.0018 | 0.0015 | | |
| Hf | 0.0008 | 0.0006 | | |
| Hg | 0.0003 | 0.0002 | | |
| In | 0.0178 | 0.0027 | | |
| K | 0.0149 | 0.0076 | | |
| Lu | 0.0000 | 0.0000 | | |
| Mg | 0.0002 | 0.0001 | | |
| Mn | 0.0005 | 0.0001 | | |
| Mo | 0.0003 | 0.0002 | | |
| Na | 0.0015 | 0.0010 | | |
| Ni | 0.0006 | 0.0014 | | |
| P | 0.0017 | 0.0012 | | |
| Pb | 0.0157 | 0.0023 | | |
| Pd | 0.0011 | 0.0008 | | |
| Sb | 0.0017 | 0.0008 | | |
| Sc | 0.0000 | 0.0000 | | |
| Se | 0.0010 | 0.0007 | | |
| Si | 0.0391 | 0.0031 | | |
| Sm | 0.0013 | 0.0009 | | |
| Sn | 0.3301 | 0.0236 | | |
| Sr | 0.0002 | 0.0000 | | |
| Th | 0.0002 | 0.0003 | | |
| Ti | 0.0005 | 0.0001 | | |
| V | 0.0006 | 0.0004 | | |
| W | 0.0017 | 0.0012 | | |
| Y | 0.0001 | 0.0001 | | |

| | | |
|--------------------|-----------------------------------|--|
| Source Name | Kerosene Generator-No Load | |
| Source Code | 20 | |

Profile for Location Controls
PM10 Laboratory
Not Applicable

| Species | PMx | Uncertainty | PMy | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Zn | 0.0273 | 0.0020 | | |
| Zr | 0.0002 | 0.0001 | | |
| ANIONS | | | | |
| F | 0.0004 | 0.0003 | | |
| Cl | 0.0059 | 0.0073 | | |
| NO2 | 0.0023 | 0.0001 | | |
| Br | 0.0012 | 0.0008 | | |
| NO3 | 0.0023 | 0.0017 | | |
| PO4 | 0.0011 | 0.0008 | | |
| SO4 | 0.0774 | 0.0062 | | |
| CATIONS | | | | |
| Na | 0.0221 | 0.0177 | | |
| NH4 | 0.0157 | 0.0078 | | |
| K | 0.0189 | 0.0136 | | |
| Ca | 0.3235 | 0.0432 | | |
| Mg | 0.0097 | 0.0069 | | |
| Organic Carbon | | | | |
| OC1 | 35.4872 | 1.7744 | | |
| OC2 | 12.0902 | 0.6045 | | |
| OC3 | 0.4095 | 0.0205 | | |
| OC4 | 0.0000 | 0.0000 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 47.9869 | 2.3993 | | |
| Elemental Carbon | | | | |
| EC1 | 0.0000 | 0.0000 | | |
| EC2 | 0.0000 | 0.0000 | | |
| EC3 | 0.0000 | 0.0000 | | |
| Total EC | 0.0000 | 0.0000 | | |
| Total Carbon | 47.9869 | 2.3993 | | |

| | | | | |
|-------------------------------------|---------|--------|--|--|
| Identified percentage of total mass | 49.3166 | 2.5902 | | |
|-------------------------------------|---------|--------|--|--|

| Molecular Marker | | | | |
|-------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0066 | 0.0007 | | |
| n-Tritriacontane | 0.0012 | 0.0001 | | |
| n- Pentatriacontane | 0.0012 | 0.0001 | | |

| | | |
|--------------------|-----------------------------------|--|
| Source Name | Kerosene Generator-No Load | |
| Source Code | 20 | |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMy | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | y=2.5µm | ± (%) |
| Hexadecanamide | 0.0012 | 0.0001 | | |
| Octadecanamide | 0.0394 | 0.0039 | | |
| Benzo[b]fluoranthene | 0.0126 | 0.0013 | | |
| Benzo[k]fluoranthene | 0.0094 | 0.0009 | | |
| Benzo[e]pyrene | 0.0051 | 0.0005 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0128 | 0.0013 | | |
| Indeno[1,2,3-cd]pyrene | 0.0141 | 0.0014 | | |
| Picene | 0.0499 | 0.0050 | | |
| Coronene | 0.0012 | 0.0001 | | |

| | |
|--------------------|------------------------------|
| Source Name | Leather Waste Burning |
| Source Code | 13 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0063 | 0.0062 | | |
| Al | 0.0024 | 0.0004 | | |
| As | 0.0199 | 0.0064 | | |
| Ba | 0.0016 | 0.0003 | | |
| Ca | 0.0207 | 0.0026 | | |
| Cd | 0.0030 | 0.0005 | | |
| Ce | 0.0193 | 0.0139 | | |
| Co | 0.0022 | 0.0016 | | |
| Cr | 0.0010 | 0.0006 | | |
| Cu | 0.0139 | 0.0015 | | |
| Fe | 0.0120 | 0.0020 | | |
| Ga | 0.0147 | 0.0106 | | |
| Hf | 0.0044 | 0.0040 | | |
| Hg | 0.0022 | 0.0016 | | |
| In | 0.0174 | 0.0125 | | |
| K | 0.0518 | 0.0509 | | |
| Lu | 0.0002 | 0.0002 | | |
| Mg | 0.0015 | 0.0011 | | |
| Mn | 0.0004 | 0.0002 | | |
| Mo | 0.0035 | 0.0018 | | |
| Na | 0.1211 | 0.0143 | | |
| Ni | 0.0114 | 0.0105 | | |
| P | 0.0118 | 0.0085 | | |
| Pb | 0.2744 | 0.0273 | | |
| Pd | 0.0059 | 0.0055 | | |
| Sb | 0.0078 | 0.0056 | | |
| Sc | 0.0005 | 0.0003 | | |
| Se | 0.0166 | 0.0057 | | |
| Si | 0.1393 | 0.0122 | | |
| Sm | 0.0089 | 0.0064 | | |
| Sn | 0.0271 | 0.0043 | | |

| | |
|--------------------|------------------------------|
| Source Name | Leather Waste Burning |
| Source Code | 13 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sr | 0.0004 | 0.0001 | | |
| Th | 0.0089 | 0.0024 | | |
| Ti | 0.0009 | 0.0004 | | |
| V | 0.0041 | 0.0029 | | |
| W | 0.0124 | 0.0089 | | |
| Y | 0.0005 | 0.0004 | | |
| Zn | 0.0004 | 0.0003 | | |
| Zr | 0.0053 | 0.0009 | | |
| ANIONS | | | | |
| F | 0.0333 | 0.0040 | | |
| Cl | 3.2278 | 0.2659 | | |
| NO2 | 0.0020 | 0.0001 | | |
| Br | 0.0179 | 0.0066 | | |
| NO3 | 0.0436 | 0.0133 | | |
| PO4 | 0.0077 | 0.0056 | | |
| SO4 | 1.2101 | 0.0906 | | |
| CATIONS | | | | |
| Na | 0.9036 | 0.1691 | | |
| NH4 | 1.2236 | 0.1273 | | |
| K | 0.6608 | 0.1274 | | |
| Ca | 0.3773 | 0.1897 | | |
| Mg | 0.0686 | 0.0493 | | |
| Organic Carbon | | | | |
| OC1 | 26.5869 | 1.3293 | | |
| OC2 | 17.7769 | 0.8888 | | |
| OC3 | 6.9948 | 0.3497 | | |
| OC4 | 1.8712 | 0.0936 | | |
| OP | 2.5835 | 0.1292 | | |
| Total OC | 55.8132 | 2.7907 | | |
| Elemental Carbon | | | | |
| EC1 | 7.0753 | 0.3538 | | |
| EC2 | 0.2295 | 0.0115 | | |

| | |
|--------------------|------------------------------|
| Source Name | Leather Waste Burning |
| Source Code | 13 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC3 | 0.0504 | 0.0025 | | |
| Total EC | 7.3552 | 0.3678 | | |
| Total Carbon | 63.1684 | 3.1584 | | |
| | | | | |
| Identified percentage of total mass | 71.8009 | | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0654 | 0.0065 | | |
| n-Tritriacontane | 0.0955 | 0.0096 | | |
| n- Pentatriacontane | 0.1765 | 0.0177 | | |
| Hexadecanamide | 0.5849 | 0.0585 | | |
| Octadecanamide | 0.2585 | 0.0259 | | |
| Benzo[b]fluoranthene | 0.1697 | 0.0170 | | |
| Benzo[k]fluoranthene | 0.1430 | 0.0143 | | |
| Benzo[e]pyrene | 0.0919 | 0.0092 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.2172 | 0.0217 | | |
| Indeno[1,2,3-cd]pyrene | 0.1596 | 0.0160 | | |
| Picene | 0.7472 | 0.0747 | | |
| Coronene | 0.2339 | 0.0234 | | |

| | |
|--------------------|---|
| Source Name | Liquified Petroleum Gas Combustion |
| Source Code | 4 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.1047 | 0.0752 | | |
| Al | 0.0614 | 0.0069 | | |
| As | 0.3278 | 0.0814 | | |
| Ba | 0.0030 | 0.0021 | | |
| Ca | 0.0221 | 0.0159 | | |
| Cd | 0.0393 | 0.0065 | | |
| Ce | 0.2298 | 0.1651 | | |
| Co | 0.0257 | 0.0184 | | |
| Cr | 0.0093 | 0.0067 | | |
| Cu | 0.0057 | 0.0075 | | |
| Fe | 0.2679 | 0.0309 | | |
| Ga | 0.0235 | 0.1180 | | |
| Hf | 0.0677 | 0.0487 | | |
| Hg | 0.0258 | 0.0185 | | |
| In | 0.2069 | 0.1487 | | |
| K | 0.0755 | 0.5773 | | |
| Lu | 0.0027 | 0.0019 | | |
| Mg | 0.0175 | 0.0126 | | |
| Mn | 0.0179 | 0.0035 | | |
| Mo | 0.0873 | 0.0236 | | |
| Na | 0.1227 | 0.0881 | | |
| Ni | 0.0556 | 0.1206 | | |
| P | 0.1404 | 0.1009 | | |
| Pb | 0.4458 | 0.1390 | | |
| Pd | 0.0926 | 0.0666 | | |
| Sb | 0.0925 | 0.0665 | | |
| Sc | 0.0043 | 0.0031 | | |
| Se | 0.3599 | 0.0769 | | |
| Si | 0.6990 | 0.0794 | | |
| Sm | 0.1062 | 0.0763 | | |
| Sn | 0.2658 | 0.0465 | | |
| Sr | 0.0009 | 0.0007 | | |
| Th | 0.0027 | 0.0222 | | |
| Ti | 0.0428 | 0.0068 | | |
| V | 0.0488 | 0.0350 | | |
| W | 0.1472 | 0.1058 | | |
| Y | 0.0005 | 0.0046 | | |

| | |
|--------------------|---|
| Source Name | Liquified Petroleum Gas Combustion |
| Source Code | 4 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Zn | 0.0049 | 0.0035 | | |
| Zr | 0.0922 | 0.0131 | | |
| ANIONS | | | | |
| F | 0.2542 | 0.0449 | | |
| Cl | 1.1507 | 0.8267 | | |
| NO2 | 0.2539 | 0.0180 | | |
| Br | 0.1297 | 0.0932 | | |
| NO3 | 0.2539 | 0.1824 | | |
| PO4 | 0.2542 | 0.0932 | | |
| SO4 | 7.7401 | 0.6274 | | |
| CATIONS | | | | |
| Na | 2.7270 | 1.9591 | | |
| NH4 | 1.0593 | 0.8249 | | |
| K | 2.0759 | 1.4914 | | |
| Ca | 1.1017 | 2.6772 | | |
| Mg | 1.0601 | 0.7616 | | |
| Organic Carbon | | | | |
| OC1 | 6.6805 | 0.3340 | | |
| OC2 | 6.8629 | 0.3431 | | |
| OC3 | 5.2630 | 0.2631 | | |
| OC4 | 2.4140 | 0.1207 | | |
| OP | 1.9929 | 0.0996 | | |
| Total OC | 23.2133 | 1.1607 | | |
| Elemental Carbon | | | | |
| EC1 | 1.8666 | 0.0933 | | |
| EC2 | 0.7438 | 0.0372 | | |
| EC3 | 0.2105 | 0.0105 | | |
| Total EC | 2.8210 | 0.1410 | | |
| Total Carbon | 26.0342 | 1.3017 | | |
| Identified percentage of total mass | | | | |
| | 48.4413 | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0548 | 0.0055 | | |
| n- Tritriacontane | 0.0548 | 0.0055 | | |
| n- Pentatriacontane | 0.0548 | 0.0055 | | |

| | |
|--------------------|---|
| Source Name | Liquified Petroleum Gas Combustion |
| Source Code | 4 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Hexadecanamide | 1.7244 | 0.1724 | | |
| Octadecanamide | 0.0548 | 0.0055 | | |
| Benzo[b]fluoranthene | 9.5898 | 0.9590 | | |
| Benzo[k]fluoranthene | 0.0548 | 0.0055 | | |
| Benzo[e]pyrene | 0.0548 | 0.0055 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0548 | 0.0055 | | |
| Indeno[1,2,3-cd]pyrene | 0.0548 | 0.0055 | | |
| Picene | 0.0548 | 0.0055 | | |
| Coronene | 0.0548 | 0.0055 | | |

| | | |
|--------------------|--------------------------------------|--|
| Source Name | Low Sulphur Heavy Stock Metal | |
| Source Code | 6000 | |

Profile PM10
Location Chennai
Control Uncontrolled

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0211 | 0.0102 | 0.0100 | 0.0090 |
| Al | 0.0144 | 0.0013 | 0.0250 | 0.0021 |
| As | 0.2266 | 0.0230 | 0.2180 | 0.0218 |
| Ba | 0.0126 | 0.0011 | 0.0101 | 0.0009 |
| Ca | 2.2648 | 0.1615 | 2.3683 | 0.1687 |
| Cd | 0.0094 | 0.0011 | 0.0094 | 0.0011 |
| Ce | 0.0487 | 0.0224 | 0.0277 | 0.0201 |
| Co | 0.0068 | 0.0026 | 0.0034 | 0.0023 |
| Cr | 0.0180 | 0.0019 | 0.1511 | 0.0113 |
| Cu | 0.0214 | 0.0023 | 0.0098 | 0.0015 |
| Fe | 0.8213 | 0.0594 | 1.6627 | 0.1188 |
| Ga | 0.0118 | 0.0157 | 0.0081 | 0.0146 |
| Hf | 0.0174 | 0.0068 | 0.0153 | 0.0063 |
| Hg | 0.0136 | 0.0030 | 0.0031 | 0.0023 |
| In | 0.1096 | 0.0241 | 0.1901 | 0.0287 |
| K | 0.0993 | 0.0795 | 0.0877 | 0.0744 |
| Lu | 0.0003 | 0.0002 | 0.0017 | 0.0003 |
| Mg | 0.0862 | 0.0073 | 0.1227 | 0.0098 |
| Mn | 0.0107 | 0.0010 | 0.0223 | 0.0018 |
| Mo | 0.0154 | 0.0033 | 0.0093 | 0.0028 |
| Na | 0.1367 | 0.0192 | 0.3416 | 0.0325 |
| Ni | 1.5858 | 0.1234 | 1.4181 | 0.1109 |
| P | 0.1514 | 0.0213 | 0.0343 | 0.0132 |
| Pb | 0.0266 | 0.0163 | 0.0750 | 0.0183 |
| Pd | 0.0199 | 0.0091 | 0.0108 | 0.0081 |
| Sb | 0.0120 | 0.0086 | 0.0113 | 0.0081 |
| Sc | 0.0009 | 0.0004 | 0.0008 | 0.0004 |
| Se | 0.0299 | 0.0090 | 0.0243 | 0.0083 |
| Si | 0.1259 | 0.0127 | 0.0906 | 0.0100 |
| Sm | 0.0138 | 0.0099 | 0.0129 | 0.0093 |
| Sn | 0.1311 | 0.0129 | 0.0574 | 0.0075 |
| Sr | 0.0038 | 0.0003 | 0.0055 | 0.0004 |
| Th | 0.0036 | 0.0030 | 0.0101 | 0.0032 |
| Ti | 0.1124 | 0.0084 | 0.1368 | 0.0101 |

| | | |
|--------------------|--------------------------------------|--|
| Source Name | Low Sulphur Heavy Stock Metal | |
| Source Code | 6000 | |

Profile PM10
Location Chennai
Control Uncontrolled

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.5754 | 0.0438 | 0.3895 | 0.0305 |
| W | 0.0251 | 0.0140 | 0.0286 | 0.0135 |
| Y | 0.0019 | 0.0007 | 0.0012 | 0.0006 |
| Zn | 0.2042 | 0.0147 | 0.2210 | 0.0159 |
| Zr | 0.0034 | 0.0012 | 0.0069 | 0.0013 |
| ANIONS | | | | |
| F | 0.0444 | 0.0057 | 0.0545 | 0.0064 |
| Cl | 0.1806 | 0.0873 | 0.4256 | 0.0977 |
| NO2 | 0.0257 | 0.0018 | 0.0240 | 0.0017 |
| Br | 0.0131 | 0.0094 | 0.0123 | 0.0088 |
| NO3 | 0.5067 | 0.0496 | 0.7638 | 0.0678 |
| PO4 | 0.0851 | 0.0130 | 0.0430 | 0.0099 |
| SO4 | 22.1346 | 1.5728 | 17.4748 | 1.2428 |
| CATIONS | | | | |
| Na | 0.4401 | 0.2071 | 0.5182 | 0.1993 |
| NH4 | 1.0314 | 0.1394 | 1.0443 | 0.1354 |
| K | 0.2100 | 0.1508 | 0.1450 | 0.1382 |
| Ca | 1.2231 | 0.3320 | 0.9865 | 0.3010 |
| Mg | 0.1072 | 0.0770 | 0.0902 | 0.0714 |
| Organic Carbon | | | | |
| OC1 | 4.8105 | 0.2405 | 3.6664 | 0.1833 |
| OC2 | 24.7790 | 1.2390 | 14.4724 | 0.7236 |
| OC3 | 8.1379 | 0.4069 | 12.9711 | 0.6486 |
| OC4 | 6.2858 | 0.3143 | 4.4063 | 0.2203 |
| OP | 1.3846 | 0.0692 | 1.5285 | 0.0764 |
| Total OC | 45.3977 | 2.2699 | 37.0446 | 1.8522 |
| Elemental Carbon | | | | |
| EC1 | 2.8657 | 0.1433 | 3.1747 | 0.1587 |
| EC2 | 0.8781 | 0.0439 | 0.6740 | 0.0337 |
| EC3 | 0.1467 | 0.0073 | 0.2805 | 0.0140 |
| Total EC | 3.8905 | 0.1945 | 4.1291 | 0.2065 |
| Total Carbon | 49.2882 | 2.4644 | 41.1737 | 2.0587 |
| Identified percentage of total mass | | | | |
| | 82.2834 | | 70.5883 | |

| | | |
|--------------------|--------------------------------------|--|
| Source Name | Low Sulphur Heavy Stock Metal | |
| Source Code | 6000 | |

Profile **PM10**
Location **Chennai**
Control **Uncontrolled**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0081 | 0.0008 | | |
| n-Tritriacontane | 0.0031 | 0.0003 | | |
| n- Pentatriacontane | 0.0031 | 0.0003 | | |
| Hexadecanamide | 0.0031 | 0.0003 | | |
| Octadecanamide | 0.0031 | 0.0003 | | |
| Benzo[b]fluoranthene | 0.0031 | 0.0003 | | |
| Benzo[k]fluoranthene | 0.0031 | 0.0003 | | |
| Benzo[e]pyrene | 0.0031 | 0.0003 | | |
| Benzo[a]fluoranthene | 0.0031 | 0.0003 | | |
| Indeno[1,2,3-cd]pyrene | 0.0031 | 0.0003 | | |
| Picene | 0.0031 | 0.0003 | | |
| Coronene | 0.0031 | 0.0003 | | |

| | |
|--------------------|-----------------------|
| Source Name | Marine Aerosol |
| Source Code | 26 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0171 | 0.0123 | | |
| Al | 0.0661 | 0.0050 | | |
| As | 0.0170 | 0.0113 | | |
| Ba | 0.0801 | 0.0059 | | |
| Ca | 7.2331 | 0.5132 | | |
| Cd | 0.0111 | 0.0014 | | |
| Ce | 0.0377 | 0.0271 | | |
| Co | 0.0042 | 0.0030 | | |
| Cr | 0.0201 | 0.0023 | | |
| Cu | 0.0150 | 0.0021 | | |
| Fe | 5.9553 | 0.4228 | | |
| Ga | 0.0287 | 0.0206 | | |
| Hf | 0.0111 | 0.0080 | | |
| Hg | 0.0042 | 0.0030 | | |
| In | 0.9815 | 0.0869 | | |
| K | 0.6493 | 0.1305 | | |
| Lu | 0.0004 | 0.0003 | | |
| Mg | 0.5953 | 0.0435 | | |
| Mn | 0.0631 | 0.0048 | | |
| Mo | 0.0046 | 0.0033 | | |
| Na | 0.6687 | 0.0575 | | |
| Ni | 0.0260 | 0.0206 | | |
| P | 0.0230 | 0.0165 | | |
| Pb | 0.2573 | 0.0342 | | |
| Pd | 0.0152 | 0.0109 | | |
| Sb | 0.0090 | 0.0106 | | |
| Sc | 0.0006 | 0.0005 | | |
| Se | 0.0140 | 0.0100 | | |
| Si | 0.3255 | 0.0275 | | |
| Sm | 0.0174 | 0.0125 | | |
| Sn | 4.4815 | 0.3205 | | |
| Sr | 0.0155 | 0.0012 | | |
| Th | 0.0036 | 0.0038 | | |
| Ti | 0.0798 | 0.0062 | | |

| | |
|--------------------|-----------------------|
| Source Name | Marine Aerosol |
| Source Code | 26 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0080 | 0.0057 | | |
| W | 0.0241 | 0.0173 | | |
| Y | 0.0011 | 0.0008 | | |
| Zn | 1.0423 | 0.0741 | | |
| Zr | 0.0019 | 0.0014 | | |
| ANIONS | | | | |
| F | 0.0198 | 0.0142 | | |
| Cl | 1.7291 | 0.4291 | | |
| NO2 | 0.7026 | 0.0497 | | |
| Br | 0.0565 | 0.0406 | | |
| NO3 | 7.5368 | 0.5873 | | |
| PO4 | 0.0520 | 0.0374 | | |
| SO4 | 6.0280 | 0.4603 | | |
| CATIONS | | | | |
| Na | 1.9611 | 0.8947 | | |
| NH4 | 1.2787 | 0.4043 | | |
| K | 0.9035 | 0.6491 | | |
| Ca | 17.6988 | 2.2108 | | |
| Mg | 0.4614 | 0.3315 | | |
| Organic Carbon | | | | |
| OC1 | 7.8272 | 0.3914 | | |
| OC2 | 12.9961 | 0.6498 | | |
| OC3 | 14.6699 | 0.7335 | | |
| OC4 | 4.8243 | 0.2412 | | |
| OP | 0.6892 | 0.0345 | | |
| Total OC | 41.0067 | 2.0503 | | |
| Elemental Carbon | | | | |
| EC1 | 4.3074 | 0.2154 | | |
| EC2 | 0.3200 | 0.0160 | | |
| EC3 | 0.4184 | 0.0209 | | |
| Total EC | 5.0458 | 0.2523 | | |
| Total Carbon | 46.0525 | 2.3026 | | |
| Identified percentage of total mass | | | | |
| | 107.2904 | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0129 | 0.0013 | | |

| | |
|--------------------|-----------------------|
| Source Name | Marine Aerosol |
| Source Code | 26 |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| n-Tritriacontane | 0.0022 | 0.0002 | | |
| n- Pentatriacontane | 0.0022 | 0.0002 | | |
| Hexadecanamide | 0.0022 | 0.0002 | | |
| Octadecanamide | 0.0022 | 0.0002 | | |
| Benzo[b]fluoranthene | 0.0022 | 0.0002 | | |
| Benzo[k]fluoranthene | 0.0022 | 0.0002 | | |
| Benzo[e]pyrene | 0.0022 | 0.0002 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0022 | 0.0002 | | |
| Indeno[1,2,3-cd]pyrene | 0.0022 | 0.0002 | | |
| Picene | 0.0022 | 0.0002 | | |
| Coronene | 0.0022 | 0.0002 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Medical Waste Incineration |
| Source Code | 17 |

Profile PM10
Location Kanpur
Control Wet Scrubber

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0299 | 0.0091 | | |
| Al | 0.0091 | 0.0009 | | |
| As | 0.0101 | 0.0073 | | |
| Ba | 0.0042 | 0.0005 | | |
| Ca | 0.6011 | 0.0436 | | |
| Cd | 0.0007 | 0.0005 | | |
| Ce | 0.0022 | 0.0165 | | |
| Co | 0.0027 | 0.0020 | | |
| Cr | 0.0158 | 0.0016 | | |
| Cu | 0.0035 | 0.0010 | | |
| Fe | 1.5669 | 0.1119 | | |
| Ga | 0.0069 | 0.0128 | | |
| Hf | 0.0162 | 0.0057 | | |
| Hg | 0.0028 | 0.0020 | | |
| In | 0.1625 | 0.0242 | | |
| K | 0.1327 | 0.0681 | | |
| Lu | 0.0003 | 0.0002 | | |
| Mg | 0.0672 | 0.0057 | | |
| Mn | 0.0104 | 0.0009 | | |
| Mo | 0.0030 | 0.0022 | | |
| Na | 0.0767 | 0.0131 | | |
| Ni | 0.0135 | 0.0133 | | |
| P | 0.0150 | 0.0108 | | |
| Pb | 2.9461 | 0.2172 | | |
| Pd | 0.0036 | 0.0068 | | |
| Sb | 0.0099 | 0.0071 | | |
| Sc | 0.0018 | 0.0004 | | |
| Se | 0.0091 | 0.0065 | | |
| Si | 0.4628 | 0.0356 | | |
| Sm | 0.0113 | 0.0081 | | |
| Sn | 0.3621 | 0.0281 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Medical Waste Incineration |
| Source Code | 17 |

Profile **PM10**
Location **Kanpur**
Control **Wet Scrubber**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sr | 0.0014 | 0.0002 | | |
| Th | 0.0035 | 0.0025 | | |
| Ti | 0.0788 | 0.0059 | | |
| V | 0.0718 | 0.0079 | | |
| W | 0.0157 | 0.0113 | | |
| Y | 0.0007 | 0.0005 | | |
| Zn | 0.0678 | 0.0050 | | |
| Zr | 0.0046 | 0.0011 | | |
| ANIONS | | | | |
| F | 0.0639 | 0.0078 | | |
| Cl | 5.5128 | 0.4656 | | |
| NO2 | 0.0843 | 0.0060 | | |
| Br | 0.0168 | 0.0121 | | |
| NO3 | 3.7031 | 0.2778 | | |
| PO4 | 0.0155 | 0.0111 | | |
| SO4 | 0.3735 | 0.0375 | | |
| CATIONS | | | | |
| Na | 1.9204 | 0.3457 | | |
| NH4 | 0.1500 | 0.1078 | | |
| K | 0.2439 | 0.1923 | | |
| Ca | 0.5106 | 0.3669 | | |
| Mg | 0.1377 | 0.0989 | | |
| Organic Carbon | | | | |
| OC1 | 30.3415 | 1.5171 | | |
| OC2 | 33.3912 | 1.6696 | | |
| OC3 | 9.8201 | 0.4910 | | |
| OC4 | 0.8580 | 0.0429 | | |
| OP | 1.6255 | 0.0813 | | |
| Total OC | 76.0362 | 3.8018 | | |
| Elemental Carbon | | | | |
| EC1 | 1.3293 | 0.0665 | | |
| EC2 | 0.3050 | 0.0152 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Medical Waste Incineration |
| Source Code | 17 |

Profile **PM10**
Location **Kanpur**
Control **Wet Scrubber**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC3 | 0.2057 | 0.0103 | | |
| Total EC | 1.8400 | 0.0920 | | |
| Total Carbon | 77.8762 | 3.8938 | | |
| | | | | |
| Identified percentage of total mass | 97.4132 | | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0397 | 0.0040 | | |
| n-Tritriacontane | 0.0094 | 0.0009 | | |
| n- Pentatriacontane | 0.0094 | 0.0009 | | |
| Hexadecanamide | 0.0094 | 0.0009 | | |
| Octadecanamide | 0.0094 | 0.0009 | | |
| Benzo[b]fluoranthene | 0.0094 | 0.0009 | | |
| Benzo[k]fluoranthene | 0.0094 | 0.0009 | | |
| Benzo[e]pyrene | 0.0094 | 0.0009 | | |
| Benzo[a]pyrene | 0.0094 | 0.0009 | | |
| Indeno[1,2,3-cd]pyrene | 0.0791 | 0.0079 | | |
| Picene | 0.6711 | 0.0671 | | |
| Coronene | 0.0094 | 0.0009 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Medical Waste Incineration |
| Source Code | 17 |

Profile PM10
Location Kanpur
Control Uncontrolled

| Species | PM_x | Uncertainty | PM_x | Uncertainty |
|-----------------|-----------------------|--------------------|-----------------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0116 | 0.0084 | | |
| Al | 0.0069 | 0.0008 | | |
| As | 0.0426 | 0.0094 | | |
| Ba | 0.0052 | 0.0006 | | |
| Ca | 0.3219 | 0.0240 | | |
| Cd | 0.0007 | 0.0005 | | |
| Ce | 0.0563 | 0.0201 | | |
| Co | 0.0029 | 0.0020 | | |
| Cr | 0.0108 | 0.0014 | | |
| Cu | 0.0073 | 0.0012 | | |
| Fe | 0.4160 | 0.0306 | | |
| Ga | 0.0136 | 0.0137 | | |
| Hf | 0.0156 | 0.0059 | | |
| Hg | 0.0033 | 0.0021 | | |
| In | 0.0421 | 0.0176 | | |
| K | 0.2430 | 0.0770 | | |
| Lu | 0.0003 | 0.0002 | | |
| Mg | 0.0167 | 0.0023 | | |
| Mn | 0.0063 | 0.0007 | | |
| Mo | 0.0067 | 0.0025 | | |
| Na | 0.2164 | 0.0230 | | |
| Ni | 0.0086 | 0.0135 | | |
| P | 0.0257 | 0.0118 | | |
| Pb | 0.3067 | 0.0322 | | |
| Pd | 0.0103 | 0.0074 | | |
| Sb | 0.0173 | 0.0078 | | |
| Sc | 0.0011 | 0.0004 | | |
| Se | 0.0394 | 0.0086 | | |
| Si | 0.1527 | 0.0140 | | |
| Sm | 0.0118 | 0.0085 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Medical Waste Incineration |
| Source Code | 17 |

Profile PM10
Location Kanpur
Control Uncontrolled

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sn | 0.1862 | 0.0158 | | |
| Sr | 0.0011 | 0.0001 | | |
| Th | 0.0037 | 0.0026 | | |
| Ti | 0.0459 | 0.0036 | | |
| V | 0.0339 | 0.0056 | | |
| W | 0.0329 | 0.0127 | | |
| Y | 0.0008 | 0.0005 | | |
| Zn | 0.1040 | 0.0076 | | |
| Zr | 0.0045 | 0.0011 | | |
| ANIONS | | | | |
| F | 0.0465 | 0.0057 | | |
| Cl | 9.6275 | 0.7334 | | |
| NO2 | 0.0317 | 0.0022 | | |
| Br | 0.0485 | 0.0108 | | |
| NO3 | 2.0148 | 0.1541 | | |
| PO4 | 0.0112 | 0.0081 | | |
| SO4 | 0.2131 | 0.0233 | | |
| CATIONS | | | | |
| Na | 0.2557 | 0.1837 | | |
| NH4 | 4.2742 | 0.3570 | | |
| K | 0.1141 | 0.1357 | | |
| Ca | 0.2104 | 0.2567 | | |
| Mg | 0.0994 | 0.0714 | | |
| Organic Carbon | | | | |
| OC1 | 22.1436 | 1.1072 | | |
| OC2 | 16.6588 | 0.8329 | | |
| OC3 | 10.3381 | 0.5169 | | |
| OC4 | 2.8101 | 0.1405 | | |
| OP | 3.1180 | 0.1559 | | |
| Total OC | 55.0686 | 2.7534 | | |
| Elemental Carbon | | | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Medical Waste Incineration |
| Source Code | 17 |

Profile PM10
Location Kanpur
Control Uncontrolled

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC1 | 6.9844 | 0.3492 | | |
| EC2 | 0.8783 | 0.0439 | | |
| EC3 | 0.5747 | 0.0287 | | |
| Total EC | 8.4374 | 0.4219 | | |
| Total Carbon | 63.5060 | 3.1753 | | |
| Identified percentage of total mass | 82.8857 | | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0288 | 0.0029 | | |
| n- Tritriacontane | 0.0131 | 0.0013 | | |
| n- Pentatriacontane | 0.0131 | 0.0013 | | |
| Hexadecanamide | 0.0131 | 0.0013 | | |
| Octadecanamide | 0.5538 | 0.0554 | | |
| Benzo[b]fluoranthene | 0.1053 | 0.0105 | | |
| Benzo[k]fluoranthene | 0.0401 | 0.0040 | | |
| Benzo[e]pyrene | 0.0823 | 0.0082 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.1355 | 0.0135 | | |
| Indeno[1,2,3-cd]pyrene | 0.0131 | 0.0013 | | |
| Picene | 0.0131 | 0.0013 | | |
| Coronene | 0.6537 | 0.0654 | | |

| | |
|--------------------|--------------------------|
| Source Name | Paint Spray Booth |
| Source Code | 31 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0010 | 0.0010 | | |
| Al | 0.0008 | 0.0008 | | |
| As | 0.0009 | 0.0009 | | |
| Ba | 0.0044 | 0.0044 | | |
| Ca | 0.1166 | 0.1166 | | |
| Cd | 0.0001 | 0.0001 | | |
| Ce | 0.0022 | 0.0022 | | |
| Co | 0.0002 | 0.0002 | | |
| Cr | 0.0008 | 0.0008 | | |
| Cu | 0.0001 | 0.0001 | | |
| Fe | 0.1098 | 0.1098 | | |
| Ga | 0.0001 | 0.0001 | | |
| Hf | 0.0001 | 0.0001 | | |
| Hg | 0.0002 | 0.0002 | | |
| In | 0.0213 | 0.0213 | | |
| K | 0.0093 | 0.0093 | | |
| Lu | 0.0000 | 0.0000 | | |
| Mg | 0.0002 | 0.0002 | | |
| Mn | 0.0006 | 0.0006 | | |
| Mo | 0.0003 | 0.0003 | | |
| Na | 0.0430 | 0.0430 | | |
| Ni | 0.0025 | 0.0025 | | |
| P | 0.0068 | 0.0068 | | |
| Pb | 0.0070 | 0.0070 | | |
| Pd | 0.0009 | 0.0009 | | |
| Sb | 0.0033 | 0.0033 | | |
| Sc | 0.0000 | 0.0000 | | |
| Se | 0.0008 | 0.0008 | | |
| Si | 0.0470 | 0.0470 | | |
| Sm | 0.0010 | 0.0010 | | |
| Sn | 0.2509 | 0.2509 | | |
| Sr | 0.0001 | 0.0001 | | |
| Th | 0.0003 | 0.0003 | | |
| Ti | 0.0559 | 0.0559 | | |

| | |
|--------------------|--------------------------|
| Source Name | Paint Spray Booth |
| Source Code | 31 |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0005 | 0.0005 | | |
| W | 0.0014 | 0.0014 | | |
| Y | 0.0001 | 0.0001 | | |
| Zn | 0.0260 | 0.0260 | | |
| Zr | 0.0051 | 0.0051 | | |
| ANIONS | | | | |
| F | 0.0056 | 0.0006 | | |
| Cl | 0.0111 | 0.0080 | | |
| NO2 | 0.0013 | 0.0001 | | |
| Br | 0.0012 | 0.0009 | | |
| NO3 | 0.0043 | 0.0019 | | |
| PO4 | 0.0035 | 0.0010 | | |
| SO4 | 0.1334 | 0.0102 | | |
| CATIONS | | | | |
| Na | 0.0060 | 0.0178 | | |
| NH4 | 0.0111 | 0.0080 | | |
| K | 0.0200 | 0.0144 | | |
| Ca | 0.3493 | 0.0461 | | |
| Mg | 0.0102 | 0.0073 | | |
| Organic Carbon | | | | |
| OC1 | 3.0150 | 0.1508 | | |
| OC2 | 22.7106 | 1.1355 | | |
| OC3 | 5.7733 | 0.2887 | | |
| OC4 | 0.7202 | 0.0360 | | |
| OP | 5.6509 | 0.2825 | | |
| Total OC | 37.8699 | 1.8935 | | |
| Elemental Carbon | | | | |
| EC1 | 0.0440 | 0.0022 | | |
| EC2 | 0.0333 | 0.0017 | | |
| EC3 | 0.0368 | 0.0018 | | |
| Total EC | 0.1141 | 0.0057 | | |
| Total Carbon | 37.9840 | 1.8992 | | |
| Identified percentage of total mass | 39.2629 | | | |

| | |
|--------------------|--------------------------|
| Source Name | Paint Spray Booth |
| Source Code | 31 |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PM_x | Uncertainty | PM_x | Uncertainty |
|---------------------------|-----------------------|--------------------|-----------------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0254 | 0.0025 | | |
| n-Tritriacontane | 0.0254 | 0.0025 | | |
| n- Pentatriacontane | 0.0254 | 0.0025 | | |
| Hexadecanamide | 0.0254 | 0.0025 | | |
| Octadecanamide | 0.0254 | 0.0025 | | |
| Benzo[b]fluoranthene | 0.0254 | 0.0025 | | |
| Benzo[k]fluoranthene | 0.0254 | 0.0025 | | |
| Benzo[e]pyrene | 0.0254 | 0.0025 | | |
| Indeno[1,2,3-cd]fluoranth | 0.0254 | 0.0025 | | |
| Indeno[1,2,3-cd]pyrene | 0.0254 | 0.0025 | | |
| Picene | 0.0254 | 0.0025 | | |
| Coronene | 8.2661 | 0.8266 | | |

| | |
|--------------------|---|
| Source Name | Paved Road Dust (Composite)- Bangalore |
| Source Code | 52 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.001732 | 0.002004 | | |
| Al | 0.059680 | 0.003712 | | |
| As | 0.005141 | 0.001893 | | |
| Ba | 0.036295 | 0.002195 | | |
| Ca | 2.887104 | 0.164475 | | |
| Cd | 0.001145 | 0.000411 | | |
| Ce | 0.006617 | 0.004493 | | |
| Co | 0.000692 | 0.000497 | | |
| Cr | 0.010074 | 0.001039 | | |
| Cu | 0.015579 | 0.001901 | | |
| Fe | 4.301438 | 0.253959 | | |
| Ga | 0.004110 | 0.003256 | | |
| Hf | 0.001826 | 0.001293 | | |
| Hg | 0.006558 | 0.000830 | | |
| In | 0.044974 | 0.006398 | | |
| K | 0.405101 | 0.038309 | | |
| Lu | 0.000066 | 0.000051 | | |
| Mg | 0.505021 | 0.028665 | | |
| Mn | 0.059333 | 0.003610 | | |
| Mo | 0.000568 | 0.000571 | | |
| Na | 0.054916 | 0.003040 | | |
| Ni | 0.004477 | 0.003443 | | |
| P | 0.018514 | 0.004372 | | |
| Pb | 0.017455 | 0.057767 | | |
| Pd | 0.005380 | 0.002019 | | |
| Sb | 0.003943 | 0.001859 | | |
| Sc | 0.000603 | 0.000110 | | |
| Se | 0.002295 | 0.001789 | | |

| | |
|--------------------|---|
| Source Name | Paved Road Dust (Composite)- Bangalore |
| Source Code | 52 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Si | 0.044702 | 0.003502 | | |
| Sm | 0.002861 | 0.002055 | | |
| Sn | 0.407314 | 0.025827 | | |
| Sr | 0.006400 | 0.000388 | | |
| Th | 0.001130 | 0.000684 | | |
| Ti | 0.103410 | 0.006648 | | |
| V | 0.001315 | 0.000945 | | |
| W | 0.003967 | 0.002850 | | |
| Y | 0.001194 | 0.000209 | | |
| Zn | 0.068210 | 0.004241 | | |
| Zr | 0.001586 | 0.000275 | | |
| ANIONS | | | | |
| F | 0.006786 | 0.001556 | | |
| Cl | 0.183064 | 0.039673 | | |
| NO2 | 0.008083 | 0.000572 | | |
| Br | 0.004979 | 0.003577 | | |
| NO3 | 0.072552 | 0.010768 | | |
| PO4 | 0.019624 | 0.004171 | | |
| SO4 | 0.274216 | 0.022493 | | |
| CATIONS | | | | |
| Na | 0.083258 | 0.074079 | | |
| NH4 | 0.015636 | 0.030360 | | |
| K | 0.085628 | 0.057567 | | |
| Ca | 0.983953 | 0.158394 | | |
| Mg | 0.040693 | 0.029234 | | |
| Organic Carbon | | | | |
| OC1 | 0.143269 | 0.007163 | | |
| OC2 | 0.830203 | 0.041510 | | |
| OC3 | 2.624563 | 0.131228 | | |

| | |
|--------------------|---|
| Source Name | Paved Road Dust (Composite)- Bangalore |
| Source Code | 52 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| OC4 | 1.489934 | 0.074497 | | |
| OP | 0.000000 | 0.000000 | | |
| Total OC | 5.087969 | 0.254398 | | |
| Elemental Carbon | | | | |
| EC1 | 1.021688 | 0.051084 | | |
| EC2 | 0.456481 | 0.022824 | | |
| EC3 | 0.059534 | 0.002977 | | |
| Total EC | 1.537703 | 0.076885 | | |
| Total Carbon | 6.625672 | 0.331284 | | |

| | | | | |
|------------|-----------|--|--|--|
| total mass | 17.506869 | | | |
|------------|-----------|--|--|--|

| Molecular Marker | | | | |
|------------------------------|-------------|-------------|--|--|
| n- Hentriacontane | 0.012710052 | 0.001271005 | | |
| n- Tritriacontane | 0.012710052 | 0.001271005 | | |
| n- Pentatriacontane | 0.012710052 | 0.001271005 | | |
| Hexadecanamide | 0.012710052 | 0.001271005 | | |
| Octadecanamide | 0.012710052 | 0.001271005 | | |
| Benzo[b]fluoranthene | 0.125377398 | 0.01253774 | | |
| Benzo[k]fluoranthene | 0.012710052 | 0.001271005 | | |
| Benzo[e]pyrene | 0.074096982 | 0.007409698 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.012710052 | 0.001271005 | | |
| Indeno[1,2,3-cd]pyrene | 0.101380932 | 0.010138093 | | |
| Picene | 0.435626857 | 0.043562686 | | |
| Coronene | 0.012710052 | 0.001271005 | | |

| | |
|--------------------|---------------------------------|
| Source Name | Paved Road Dust- Chennai |
| Source Code | 52 |

| Profile | PM10 | | | |
|-----------------|----------------------|--------------------|----------------|--------------------|
| Location | Laboratory | | | |
| Control | Not Available | | | |
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0086 | 0.0075 | | |
| Al | 0.0526 | 0.0068 | | |
| As | 0.0085 | 0.0067 | | |
| Ba | 0.0830 | 0.0048 | | |
| Ca | 4.4472 | 0.2888 | | |
| Cd | 0.0022 | 0.0005 | | |
| Ce | 0.0230 | 0.0165 | | |
| Co | 0.0026 | 0.0018 | | |
| Cr | 0.0269 | 0.0024 | | |
| Cu | 0.0169 | 0.0018 | | |
| Fe | 3.7305 | 0.3729 | | |
| Ga | 0.0175 | 0.0123 | | |
| Hf | 0.0059 | 0.0048 | | |
| Hg | 0.0026 | 0.0022 | | |
| In | 0.2293 | 0.0218 | | |
| K | 0.3710 | 0.0796 | | |
| Lu | 0.0003 | 0.0002 | | |
| Mg | 0.5098 | 0.0480 | | |
| Mn | 0.0503 | 0.0064 | | |
| Mo | 0.0022 | 0.0020 | | |
| Na | 0.4258 | 0.0412 | | |
| Ni | 0.0133 | 0.0127 | | |
| P | 0.0345 | 0.0109 | | |
| Pb | 0.0656 | 0.0143 | | |
| Pd | 0.0139 | 0.0071 | | |
| Sb | 0.0231 | 0.0071 | | |
| Sc | 0.0004 | 0.0003 | | |
| Se | 0.0085 | 0.0061 | | |
| Si | 0.6795 | 0.0470 | | |
| Sm | 0.0106 | 0.0076 | | |
| Sn | 3.1279 | 0.1483 | | |
| Sr | 0.0120 | 0.0008 | | |
| Th | 0.0048 | 0.0025 | | |
| Ti | 0.0861 | 0.0096 | | |
| V | 0.0049 | 0.0035 | | |

| | |
|--------------------|---------------------------------|
| Source Name | Paved Road Dust- Chennai |
| Source Code | 52 |

| Profile Location Control | PM10 Laboratory Not Available | | | |
|-------------------------------------|--------------------------------------|--------------------|----------------|--------------------|
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| W | 0.0147 | 0.0106 | | |
| Y | 0.0004 | 0.0005 | | |
| Zn | 0.3238 | 0.0143 | | |
| Zr | 0.0013 | 0.0008 | | |
| ANIONS | | | | |
| F | 0.0073 | 0.0029 | | |
| Cl | 0.0953 | 0.0684 | | |
| NO2 | 0.0232 | 0.0016 | | |
| Br | 0.0189 | 0.0082 | | |
| NO3 | 0.0107 | 0.0146 | | |
| PO4 | 0.0101 | 0.0071 | | |
| SO4 | 0.3919 | 0.0345 | | |
| CATIONS | | | | |
| Na | 0.2871 | 0.1657 | | |
| NH4 | 0.1509 | 0.0720 | | |
| K | 0.4792 | 0.1416 | | |
| Ca | 2.7918 | 0.3833 | | |
| Mg | 0.1394 | 0.0659 | | |
| Organic Carbon | | | | |
| OC1 | 0.3393 | 0.0170 | | |
| OC2 | 2.0410 | 0.1021 | | |
| OC3 | 6.1664 | 0.3083 | | |
| OC4 | 3.7389 | 0.1869 | | |
| OP | 1.8109 | 0.0905 | | |
| Total OC | 14.0965 | 0.7048 | | |
| Elemental Carbon | | | | |
| EC1 | 0.3496 | 0.0175 | | |
| EC2 | 0.7192 | 0.0360 | | |
| EC3 | 0.0483 | 0.0024 | | |
| Total EC | 1.1171 | 0.0559 | | |
| Total Carbon | 15.2137 | 0.7607 | | |
| | | | | |
| Identified percentage of total mass | 34.0615 | | | |

| | |
|--------------------|---------------------------------|
| Source Name | Paved Road Dust- Chennai |
| Source Code | 52 |

| Profile Location Control | PM10 Laboratory Not Available | | | |
|---|--|--------------------|----------------|--------------------|
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0057 | 0.0006 | | |
| n-Tritriacontane | 0.0057 | 0.0006 | | |
| n- Pentatriacontane | 0.0057 | 0.0006 | | |
| Hexadecanamide | 0.0057 | 0.0006 | | |
| Octadecanamide | 0.0057 | 0.0006 | | |
| Benzo[b]fluoranthene | 0.0057 | 0.0006 | | |
| Benzo[k]fluoranthene | 0.0057 | 0.0006 | | |
| Benzo[e]pyrene | 0.0057 | 0.0006 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0057 | 0.0006 | | |
| Indeno[1,2,3-cd]pyrene | 0.0057 | 0.0006 | | |
| Picene | 0.0057 | 0.0006 | | |
| Coronene | 0.0057 | 0.0006 | | |

| | |
|--------------------|-------------------------------|
| Source Name | Paved Road Dust- Delhi |
| Source Code | 52 |

Profile **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0025 | 0.0024 | | |
| Al | 0.2345 | 0.0148 | | |
| As | 0.0032 | 0.0022 | | |
| Ba | 0.0715 | 0.0050 | | |
| Ca | 1.3559 | 0.1233 | | |
| Cd | 0.0011 | 0.0003 | | |
| Ce | 0.0074 | 0.0053 | | |
| Co | 0.0008 | 0.0006 | | |
| Cr | 0.0686 | 0.0049 | | |
| Cu | 0.0796 | 0.0058 | | |
| Fe | 5.9873 | 0.3329 | | |
| Ga | 0.0033 | 0.0040 | | |
| Hf | 0.0019 | 0.0016 | | |
| Hg | 0.0080 | 0.0009 | | |
| In | 0.0966 | 0.0110 | | |
| K | 1.1941 | 0.0591 | | |
| Lu | 0.0001 | 0.0001 | | |
| Mg | 1.2009 | 0.0482 | | |
| Mn | 0.2221 | 0.0139 | | |
| Mo | 0.0008 | 0.0006 | | |
| Na | 0.3879 | 0.0223 | | |
| Ni | 0.0128 | 0.0044 | | |
| P | 0.0228 | 0.0083 | | |
| Pb | 0.1353 | 0.0093 | | |
| Pd | 0.0078 | 0.0023 | | |
| Sb | 0.0037 | 0.0023 | | |
| Sc | 0.0005 | 0.0001 | | |

| | |
|--------------------|-------------------------------|
| Source Name | Paved Road Dust- Delhi |
| Source Code | 52 |

Profile
Location
Controls

PM10
Laboratory
Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Se | 0.0027 | 0.0020 | | |
| Si | 0.3882 | 0.0227 | | |
| Sm | 0.0034 | 0.0025 | | |
| Sn | 0.9370 | 0.0679 | | |
| Sr | 0.0230 | 0.0015 | | |
| Th | 0.0005 | 0.0008 | | |
| Ti | 0.1202 | 0.0058 | | |
| V | 0.0016 | 0.0011 | | |
| W | 0.0047 | 0.0034 | | |
| Y | 0.0009 | 0.0002 | | |
| Zn | 0.1314 | 0.0098 | | |
| Zr | 0.0001 | 0.0003 | | |
| ANIONS | | | | |
| F | 0.2015 | 0.0150 | | |
| Cl | 0.2900 | 0.0427 | | |
| NO2 | 0.0083 | 0.0006 | | |
| Br | 0.0116 | 0.0035 | | |
| NO3 | 0.0089 | 0.0060 | | |
| PO4 | 0.0039 | 0.0028 | | |
| SO4 | 1.3158 | 0.0956 | | |
| CATIONS | | | | |
| Na | 0.2103 | 0.0709 | | |
| NH4 | 0.0281 | 0.0267 | | |
| K | 0.3427 | 0.0648 | | |
| Ca | 2.7488 | 0.2623 | | |
| Mg | 0.1272 | 0.0302 | | |
| Organic Carbon | | | | |
| OC1 | 0.2616 | 0.0131 | | |

| | |
|--------------------|-------------------------------|
| Source Name | Paved Road Dust- Delhi |
| Source Code | 52 |

| Profile | PM10 | | | |
|--|-----------------------|--------------------|----------------|--------------------|
| Location | Laboratory | | | |
| Controls | Not Applicable | | | |
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| OC2 | 1.9070 | 0.0953 | | |
| OC3 | 3.8527 | 0.1926 | | |
| OC4 | 3.1597 | 0.1580 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 9.1809 | 0.4590 | | |
| Elemental Carbon | | | | |
| EC1 | 2.1009 | 0.1050 | | |
| EC2 | 0.3429 | 0.0171 | | |
| EC3 | 0.3684 | 0.0184 | | |
| Total EC | 2.8121 | 0.1406 | | |
| Total Carbon | 11.9930 | 0.5997 | | |
| Identified percentage of total mass | 30.0149 | 2.0246 | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0315 | 0.0031 | | |
| n-Tritriacontane | 0.0315 | 0.0031 | | |
| n- Pentatriacontane | 0.0315 | 0.0031 | | |
| Hexadecanamide | 0.0315 | 0.0031 | | |
| Octadecanamide | 0.0315 | 0.0031 | | |
| Benzo[b]fluoranthene | 0.0315 | 0.0031 | | |
| Benzo[k]fluoranthene | 0.0315 | 0.0031 | | |
| Benzo[e]pyrene | 0.0315 | 0.0031 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0315 | 0.0031 | | |
| Indeno[1,2,3-cd]pyrene | 0.0315 | 0.0031 | | |
| Picene | 0.0315 | 0.0031 | | |
| Coronene | 0.0315 | 0.0031 | | |

| | |
|--------------------|--------------------------------|
| Source Name | Paved Road Dust- Kanpur |
| Source Code | 52 |

Profile
Location
Control

PM10
Laboratory
Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0022 | 0.0019 | | |
| Al | 0.0620 | 0.0084 | | |
| As | 0.0021 | 0.0017 | | |
| Ba | 0.0319 | 0.0029 | | |
| Ca | 0.8183 | 0.0633 | | |
| Cd | 0.0012 | 0.0002 | | |
| Ce | 0.0042 | 0.0041 | | |
| Co | 0.0007 | 0.0005 | | |
| Cr | 0.0085 | 0.0022 | | |
| Cu | 0.0118 | 0.0025 | | |
| Fe | 3.2689 | 0.2675 | | |
| Ga | 0.0045 | 0.0032 | | |
| Hf | 0.0008 | 0.0012 | | |
| Hg | 0.0054 | 0.0008 | | |
| In | 0.0712 | 0.0089 | | |
| K | 0.8589 | 0.0703 | | |
| Lu | 0.0001 | 0.0000 | | |
| Mg | 1.1264 | 0.0758 | | |
| Mn | 0.0596 | 0.0079 | | |
| Mo | 0.0005 | 0.0005 | | |
| Na | 0.3057 | 0.0248 | | |
| Ni | 0.0048 | 0.0033 | | |
| P | 0.1031 | 0.0078 | | |
| Pb | 0.0440 | 0.0059 | | |
| Pd | 0.0061 | 0.0018 | | |
| Sb | 0.0041 | 0.0018 | | |
| Sc | 0.0004 | 0.0001 | | |
| Se | 0.0022 | 0.0015 | | |
| Si | 0.2067 | 0.0182 | | |
| Sm | 0.0027 | 0.0019 | | |
| Sn | 0.7514 | 0.0565 | | |

| | |
|--------------------|--------------------------------|
| Source Name | Paved Road Dust- Kanpur |
| Source Code | 52 |

Profile
Location
Control

PM10
Laboratory
Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sr | 0.0188 | 0.0014 | | |
| Th | 0.0021 | 0.0007 | | |
| Ti | 0.1016 | 0.0068 | | |
| V | 0.0012 | 0.0009 | | |
| W | 0.0038 | 0.0027 | | |
| Y | 0.0009 | 0.0002 | | |
| Zn | 0.0894 | 0.0072 | | |
| Zr | 0.0003 | 0.0002 | | |
| ANIONS | | | | |
| F | 2.1975 | 0.1559 | | |
| Cl | 0.2904 | 0.0375 | | |
| NO2 | 0.0066 | 0.0005 | | |
| Br | 0.0883 | 0.0081 | | |
| NO3 | 0.0054 | 0.0047 | | |
| PO4 | 0.0031 | 0.0022 | | |
| SO4 | 0.6146 | 0.0455 | | |
| CATIONS | | | | |
| Na | 0.3488 | 0.0673 | | |
| NH4 | 0.0859 | 0.0248 | | |
| K | 0.3327 | 0.0553 | | |
| Ca | 2.5031 | 0.2307 | | |
| Mg | 0.2016 | 0.0304 | | |
| Organic Carbon | | | | |
| OC1 | 0.1603 | 0.0080 | | |
| OC2 | 1.2337 | 0.0617 | | |
| OC3 | 3.2768 | 0.1638 | | |
| OC4 | 3.5706 | 0.1785 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 8.2414 | 0.4121 | | |
| Elemental Carbon | | | | |
| EC1 | 1.4015 | 0.0701 | | |
| EC2 | 0.2770 | 0.0139 | | |

| | |
|--------------------|--------------------------------|
| Source Name | Paved Road Dust- Kanpur |
| Source Code | 52 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC3 | 0.0895 | 0.0045 | | |
| Total EC | 1.7680 | 0.0884 | | |
| Total Carbon | 10.0094 | 0.5005 | | |
| | | | | |
| Identified percentage of total mass | 27.5084 | | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0078 | 0.0008 | | |
| n-Tritriacontane | 0.0078 | 0.0008 | | |
| n- Pentatriacontane | 0.0078 | 0.0008 | | |
| Hexadecanamide | 0.0078 | 0.0008 | | |
| Octadecanamide | 0.2421 | 0.0242 | | |
| Benzo[b]fluoranthene | 0.0185 | 0.0019 | | |
| Benzo[k]fluoranthene | 0.0078 | 0.0008 | | |
| Benzo[e]pyrene | 0.0487 | 0.0049 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0078 | 0.0008 | | |
| Indeno[1,2,3-cd]pyrene | 0.0078 | 0.0008 | | |
| Picene | 0.0078 | 0.0008 | | |
| Coronene | 1.2888 | 0.1289 | | |

| | | |
|--------------------|--|--|
| Source Name | Paved Road Dust- Mumbai (Composite) | |
| Source Code | 52 | |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0039 | 0.0019 | 0.0444 | 0.0129 |
| Al | 0.1168 | 0.0083 | 0.0742 | 0.0056 |
| As | 0.0032 | 0.0017 | 0.0290 | 0.0111 |
| Ba | 0.0174 | 0.0013 | 0.0157 | 0.0014 |
| Ca | 2.6698 | 0.1890 | 2.4491 | 0.1751 |
| Cd | 0.0029 | 0.0003 | 0.0018 | 0.0007 |
| Ce | 0.0091 | 0.0042 | 0.0345 | 0.0248 |
| Co | 0.0039 | 0.0007 | 0.0039 | 0.0028 |
| Cr | 0.4691 | 0.0333 | 0.0046 | 0.0012 |
| Cu | 0.0308 | 0.0023 | 0.0188 | 0.0023 |
| Fe | 6.2385 | 0.4414 | 3.7904 | 0.2696 |
| Ga | 0.0020 | 0.0029 | 0.0302 | 0.0191 |
| Hf | 0.0025 | 0.0012 | 0.0788 | 0.0115 |
| Hg | 0.0159 | 0.0015 | 0.0078 | 0.0030 |
| In | 0.0295 | 0.0051 | 0.0526 | 0.0235 |
| K | 0.1658 | 0.0239 | 4.0852 | 0.3584 |
| Lu | 0.0001 | 0.0000 | 0.0004 | 0.0003 |
| Mg | 1.0640 | 0.0754 | 0.8586 | 0.0620 |
| Mn | 0.1153 | 0.0082 | 0.0673 | 0.0051 |
| Mo | 0.0022 | 0.0006 | 0.0111 | 0.0034 |
| Na | 0.2258 | 0.0175 | 18.5663 | 1.3219 |
| Ni | 0.2597 | 0.0209 | 0.0539 | 0.0206 |
| P | 0.0462 | 0.0053 | 0.1098 | 0.0204 |
| Pb | 0.0314 | 0.0048 | 0.0283 | 0.0187 |
| Pd | 0.0085 | 0.0020 | 0.0444 | 0.0118 |
| Sb | 0.0045 | 0.0017 | 0.0148 | 0.0100 |
| Sc | 0.0006 | 0.0001 | 0.0033 | 0.0006 |
| Se | 0.0091 | 0.0019 | 0.0267 | 0.0100 |
| Si | 0.0301 | 0.0029 | 0.0600 | 0.0094 |
| Sm | 0.0026 | 0.0019 | 0.0160 | 0.0115 |

| | | |
|--------------------|--|--|
| Source Name | Paved Road Dust- Mumbai (Composite) | |
| Source Code | 52 | |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sn | 0.0251 | 0.0024 | 0.0696 | 0.0092 |
| Sr | 0.0141 | 0.0010 | 0.0104 | 0.0008 |
| Th | 0.0020 | 0.0006 | 0.0066 | 0.0037 |
| Ti | 0.2282 | 0.0162 | 0.1829 | 0.0134 |
| V | 0.0116 | 0.0015 | 0.0492 | 0.0078 |
| W | 0.0036 | 0.0026 | 0.0664 | 0.0184 |
| Y | 0.0010 | 0.0002 | 0.0016 | 0.0008 |
| Zn | 0.0549 | 0.0039 | 0.0292 | 0.0025 |
| Zr | 0.0019 | 0.0003 | 0.0104 | 0.0018 |
| ANIONS | | | | |
| F | 0.0579 | 0.0049 | 0.1377 | 0.0125 |
| Cl | 0.0352 | 0.0283 | 0.5611 | 0.1155 |
| NO2 | 0.0073 | 0.0005 | 0.1238 | 0.0025 |
| Br | 0.0045 | 0.0032 | 0.0632 | 0.0130 |
| NO3 | 0.2656 | 0.0237 | 15.2548 | 0.0255 |
| PO4 | 0.0041 | 0.0030 | 0.0583 | 0.0120 |
| SO4 | 0.4073 | 0.0315 | 3.4780 | 0.0419 |
| CATIONS | | | | |
| Na | 0.0700 | 0.0664 | 1.3297 | 0.2737 |
| NH4 | 0.0399 | 0.0286 | 0.5634 | 0.1160 |
| K | 0.0716 | 0.0515 | 1.0122 | 0.2084 |
| Ca | 1.5836 | 0.1873 | 1.0399 | 0.4623 |
| Mg | 0.0276 | 0.0258 | 0.5169 | 0.1076 |
| Organic Carbon | | | | |
| OC1 | 0.1913 | 0.0096 | 1.3731 | 0.0687 |
| OC2 | 1.3513 | 0.0676 | 1.9857 | 0.0993 |
| OC3 | 3.8455 | 0.1923 | 5.6180 | 0.2809 |
| OC4 | 2.5458 | 0.1273 | 3.7498 | 0.1875 |
| OP | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total OC | 7.9339 | 0.3967 | 12.7266 | 0.6363 |
| Elemental Carbon | | | | |

| | | |
|--------------------|--|--|
| Source Name | Paved Road Dust- Mumbai (Composite) | |
| Source Code | 52 | |

Profile PM10 and PM2.5
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC1 | 2.1071 | 0.1054 | 2.1369 | 0.1068 |
| EC2 | 0.6009 | 0.0300 | 0.8770 | 0.0439 |
| EC3 | 0.1516 | 0.0076 | 0.1302 | 0.0065 |
| Total EC | 2.8595 | 0.1430 | 3.1441 | 0.1572 |
| Total Carbon | 10.7935 | 0.5397 | 15.8708 | 0.7935 |
| | | | | |
| Identified percentage of total mass | 25.2916 | | 71.0176 | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0079 | 0.0008 | | |
| n-Tritriacontane | 0.0079 | 0.0008 | | |
| n- Pentatriacontane | 0.0079 | 0.0008 | | |
| Hexadecanamide | 0.0079 | 0.0008 | | |
| Octadecanamide | 0.2318 | 0.0232 | | |
| Benzo[b]fluoranthene | 0.0079 | 0.0008 | | |
| Benzo[k]fluoranthene | 0.0079 | 0.0008 | | |
| Benzo[e]pyrene | 0.0393 | 0.0039 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0079 | 0.0008 | | |
| Indeno[1,2,3-cd]pyrene | 0.0079 | 0.0008 | | |
| Picene | 0.2675 | 0.0267 | | |
| Coronene | 0.0079 | 0.0008 | | |

| | |
|--------------------|--|
| Source Name | Paved Road Dust- Pune (Composite) |
| Source Code | 52 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|----------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0065 | 0.0047 | 0.0121 | 0.0109 |
| Al | 0.1425 | 0.0102 | 0.1360 | 0.0099 |
| As | 0.0051 | 0.0042 | 0.0124 | 0.0100 |
| Ba | 0.0356 | 0.0026 | 0.0323 | 0.0025 |
| Ca | 7.3733 | 0.5220 | 7.4904 | 0.5312 |
| Cd | 0.0023 | 0.0004 | 0.0077 | 0.0011 |
| Ce | 0.0131 | 0.0103 | 0.0621 | 0.0261 |
| Co | 0.0013 | 0.0011 | 0.0038 | 0.0027 |
| Cr | 0.0160 | 0.0014 | 0.1257 | 0.0097 |
| Cu | 0.0349 | 0.0028 | 0.0275 | 0.0028 |
| Fe | 7.9905 | 0.5657 | 6.5229 | 0.4628 |
| Ga | 0.0065 | 0.0076 | 0.0237 | 0.0185 |
| Hf | 0.0048 | 0.0031 | 0.0045 | 0.0069 |
| Hg | 0.0229 | 0.0025 | 0.0120 | 0.0032 |
| In | 0.0218 | 0.0098 | 0.0587 | 0.0236 |
| K | 0.3707 | 0.0576 | 0.4516 | 0.1097 |
| Lu | 0.0002 | 0.0001 | 0.0004 | 0.0003 |
| Mg | 1.8279 | 0.1298 | 1.3176 | 0.0944 |
| Mn | 0.1451 | 0.0104 | 0.1280 | 0.0093 |
| Mo | 0.0027 | 0.0013 | 0.0067 | 0.0031 |
| Na | 0.3351 | 0.0276 | 0.5132 | 0.0459 |
| Ni | 0.0143 | 0.0081 | 0.0674 | 0.0212 |
| P | 0.0694 | 0.0100 | 0.0709 | 0.0179 |
| Pb | 0.0137 | 0.0079 | 0.1844 | 0.0288 |
| Pd | 0.0106 | 0.0044 | 0.0107 | 0.0097 |
| Sb | 0.0078 | 0.0043 | 0.0136 | 0.0098 |
| Sc | 0.0009 | 0.0002 | 0.0007 | 0.0005 |
| Se | 0.0250 | 0.0050 | 0.0328 | 0.0102 |
| Si | 0.0435 | 0.0051 | 0.0988 | 0.0118 |
| Sm | 0.0066 | 0.0048 | 0.0157 | 0.0112 |
| Sn | 0.0661 | 0.0063 | 0.1829 | 0.0166 |
| Sr | 0.0244 | 0.0018 | 0.0207 | 0.0015 |
| Th | 0.0045 | 0.0016 | 0.0093 | 0.0037 |
| Ti | 0.4418 | 0.0314 | 0.3079 | 0.0222 |
| V | 0.0198 | 0.0032 | 0.0416 | 0.0072 |

| | |
|--------------------|--|
| Source Name | Paved Road Dust- Pune (Composite) |
| Source Code | 52 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| W | 0.0078 | 0.0065 | 0.0217 | 0.0156 |
| Y | 0.0013 | 0.0004 | 0.0017 | 0.0008 |
| Zn | 0.0601 | 0.0044 | 0.0940 | 0.0070 |
| Zr | 0.0049 | 0.0008 | 0.0065 | 0.0015 |
| ANIONS | | | | |
| F | 0.4200 | 0.0313 | 0.6445 | 0.0496 |
| Cl | 0.0769 | 0.0552 | 0.4265 | 0.1514 |
| NO2 | 0.0170 | 0.0012 | 0.0424 | 0.0030 |
| Br | 0.0087 | 0.0062 | 0.0216 | 0.0155 |
| NO3 | 0.0170 | 0.0122 | 0.0424 | 0.0304 |
| PO4 | 0.0080 | 0.0057 | 0.0199 | 0.0143 |
| SO4 | 0.8500 | 0.0654 | 1.9764 | 0.1529 |
| CATIONS | | | | |
| Na | 0.1822 | 0.1309 | 0.4550 | 0.3268 |
| NH4 | 0.0772 | 0.0555 | 0.1928 | 0.1385 |
| K | 0.1387 | 0.0997 | 0.3463 | 0.2488 |
| Ca | 2.9541 | 0.3551 | 3.2387 | 0.6218 |
| Mg | 0.0458 | 0.0496 | 0.1793 | 0.1272 |
| Organic Carbon | | | | |
| OC1 | 0.3401 | 0.0170 | 0.5666 | 0.0283 |
| OC2 | 1.2518 | 0.0626 | 1.3270 | 0.0664 |
| OC3 | 4.1731 | 0.2087 | 3.5575 | 0.1779 |
| OC4 | 3.3239 | 0.1662 | 2.9674 | 0.1484 |
| OP | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total OC | 9.0890 | 0.4544 | 8.4185 | 0.4209 |
| Elemental Carbon | | | | |
| EC1 | 1.8399 | 0.0920 | 1.4151 | 0.0708 |
| EC2 | 1.0709 | 0.0535 | 0.9801 | 0.0490 |
| EC3 | 0.2159 | 0.0108 | 0.1560 | 0.0078 |
| Total EC | 3.1266 | 0.1563 | 2.5512 | 0.1276 |
| Total Carbon | 12.2156 | 0.6108 | 10.9698 | 0.5485 |
| Identified percentage of total mass | | | | |
| | 36.1922 | | 36.6862 | |

| | |
|--------------------|--|
| Source Name | Paved Road Dust- Pune (Composite) |
| Source Code | 52 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0754 | 0.0075 | | |
| n-Tritriacontane | 0.0583 | 0.0058 | | |
| n- Pentatriacontane | 0.0047 | 0.0005 | | |
| Hexadecanamide | 0.0047 | 0.0005 | | |
| Octadecanamide | 0.1607 | 0.0161 | | |
| Benzo[b]fluoranthene | 0.0149 | 0.0015 | | |
| Benzo[k]fluoranthene | 0.0047 | 0.0005 | | |
| Benzo[e]pyrene | 0.0047 | 0.0005 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0341 | 0.0034 | | |
| Indeno[1,2,3-cd]pyrene | 0.0347 | 0.0035 | | |
| Picene | 0.1688 | 0.0169 | | |
| Coronene | 0.0047 | 0.0005 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Petroleum Refining-Combustion |
| Source Code | 27 |

| Profile Location Control | PM10 Mumbai Uncontrolled | | | |
|---|---|--------------------|----------------|--------------------|
| Species | PMx | Uncertainty | PMx | Uncertainty |
| Elements | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Ag | 0.0639 | 0.0100 | | |
| Al | 0.6577 | 0.0008 | | |
| As | 0.0276 | 0.0100 | | |
| Ba | 0.0575 | 0.0003 | | |
| Ca | 3.1360 | 0.0116 | | |
| Cd | 0.0285 | 0.0032 | | |
| Ce | 0.0307 | 0.0221 | | |
| Co | 0.0397 | 0.0025 | | |
| Cr | 12.0100 | 0.0009 | | |
| Cu | 0.1664 | 0.0032 | | |
| Fe | 48.4057 | 0.0106 | | |
| Ga | 0.0234 | 0.0169 | | |
| Hf | 0.0081 | 0.0069 | | |
| Hg | 0.0726 | 0.0024 | | |
| In | 0.2830 | 0.0199 | | |
| K | 0.2489 | 0.0998 | | |
| Lu | 0.0005 | 0.0003 | | |
| Mg | 0.3042 | 0.0037 | | |
| Mn | 0.6768 | 0.0006 | | |
| Mo | 0.0179 | 0.0028 | | |
| Na | 1.4721 | 0.0162 | | |
| Ni | 4.4982 | 0.0197 | | |
| P | 0.2232 | 0.0135 | | |
| Pb | 0.5709 | 0.0771 | | |
| Pd | 0.0754 | 0.0090 | | |
| Sb | 0.0534 | 0.0091 | | |
| Sc | 0.0006 | 0.0004 | | |
| Se | 0.0213 | 0.0098 | | |
| Si | 0.0073 | 0.0117 | | |
| Sm | 0.0142 | 0.0102 | | |
| Sn | 2.7898 | 0.0143 | | |
| Sr | 0.0082 | 0.0002 | | |
| Th | 0.0063 | 0.0036 | | |
| Ti | 0.0527 | 0.0030 | | |
| V | 0.0050 | 0.0046 | | |
| W | 0.0197 | 0.0153 | | |
| Y | 0.0009 | 0.0007 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Petroleum Refining-Combustion |
| Source Code | 27 |

| Profile Location Control | PM10 Mumbai Uncontrolled | | | |
|--|---|------------------------------|------------------------|------------------------------|
| Species | PMx x=10µm | Uncertainty ± (%) | PMx x=2.5µm | Uncertainty ± (%) |
| Zn | 0.3278 | 0.0005 | | |
| Zr | 0.0069 | 0.0015 | | |
| ANIONS | | | | |
| F | 0.0210 | 0.0038 | | |
| Cl | 0.1119 | 0.0711 | | |
| NO2 | 0.0017 | 0.0001 | | |
| Br | 0.0110 | 0.0079 | | |
| NO3 | 0.2206 | 0.0277 | | |
| PO4 | 0.0102 | 0.0073 | | |
| SO4 | 42.8113 | 3.0336 | | |
| CATIONS | | | | |
| Na | 0.1542 | 0.1624 | | |
| NH4 | 2.0216 | 0.1952 | | |
| K | 0.1292 | 0.1243 | | |
| Ca | 0.1314 | 0.2295 | | |
| Mg | 0.0901 | 0.0647 | | |
| Organic Carbon | | | | |
| OC1 | 0.6361 | 0.0318 | | |
| OC2 | 0.7439 | 0.0372 | | |
| OC3 | 0.8511 | 0.0426 | | |
| OC4 | 0.8667 | 0.0433 | | |
| OP | 0.4295 | 0.0215 | | |
| Total OC | 3.5273 | 0.1764 | | |
| Elemental Carbon | | | | |
| EC1 | 0.4942 | 0.0247 | | |
| EC2 | 0.2430 | 0.0121 | | |
| EC3 | 0.0860 | 0.0043 | | |
| Total EC | 0.8231 | 0.0412 | | |
| Total Carbon | 4.3504 | 0.2175 | | |
| | | | | |
| Identified percentage of total mass | 126.4778 | | | |
| | | | | |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0017 | 0.0002 | | |
| n-Tritriacontane | 0.0017 | 0.0002 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Petroleum Refining-Combustion |
| Source Code | 27 |

| Profile | PM10 | | | |
|------------------------------|---------------------|--------------------|----------------|--------------------|
| Location | Mumbai | | | |
| Control | Uncontrolled | | | |
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| n- Pentatriacontane | 0.0017 | 0.0002 | | |
| Hexadecanamide | 0.0017 | 0.0002 | | |
| Octadecanamide | 0.0017 | 0.0002 | | |
| Benzo[b]fluoranthene | 0.0017 | 0.0002 | | |
| Benzo[k]fluoranthene | 0.0017 | 0.0002 | | |
| Benzo[e]pyrene | 0.0017 | 0.0002 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0017 | 0.0002 | | |
| Indeno[1,2,3-cd]pyrene | 0.0017 | 0.0002 | | |
| Picene | 0.0017 | 0.0002 | | |
| Coronene | 0.0017 | 0.0002 | | |

| | |
|--------------------|---|
| Source Name | Petroleum Refining-- Non- Combustion |
| Source Code | 28 |

Profile
Location
Control

PM10
Mumbai
Uncontrolled

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0638 | 0.0299 | | |
| Al | 0.0323 | 0.0024 | | |
| As | 0.1681 | 0.0296 | | |
| Ba | 0.0067 | 0.0087 | | |
| Ca | 0.4430 | 0.0185 | | |
| Cd | 0.0671 | 0.0028 | | |
| Ce | 0.1402 | 0.0692 | | |
| Co | 0.0157 | 0.0077 | | |
| Cr | 0.0512 | 0.0043 | | |
| Cu | 0.6556 | 0.0118 | | |
| Fe | 1.1144 | 0.0534 | | |
| Ga | 0.0672 | 0.0525 | | |
| Hf | 0.0419 | 0.0193 | | |
| Hg | 0.0064 | 0.0077 | | |
| In | 0.1262 | 0.0817 | | |
| K | 0.6945 | 0.5635 | | |
| Lu | 0.0016 | 0.0008 | | |
| Mg | 0.0313 | 0.0071 | | |
| Mn | 0.0181 | 0.0012 | | |
| Mo | 0.0297 | 0.0090 | | |
| Na | 0.1672 | 0.0383 | | |
| Ni | 0.0315 | 0.0526 | | |
| P | 0.0857 | 0.0423 | | |
| Pb | 13.1869 | 0.1976 | | |
| Pd | 0.0264 | 0.0262 | | |
| Sb | 0.0601 | 0.0290 | | |
| Sc | 0.0026 | 0.0013 | | |
| Se | 0.1852 | 0.0268 | | |
| Si | 0.6260 | 0.1871 | | |
| Sm | 0.0647 | 0.0320 | | |
| Sn | 0.1395 | 0.7191 | | |
| Sr | 0.0089 | 0.0005 | | |
| Th | 0.0202 | 0.0096 | | |
| Ti | 0.0454 | 0.0078 | | |

| | |
|--------------------|---|
| Source Name | Petroleum Refining-- Non- Combustion |
| Source Code | 28 |

| Profile | PM10 | | | |
|-------------------------|---------------------|--------------------|----------------|--------------------|
| Location | Mumbai | | | |
| Control | Uncontrolled | | | |
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0298 | 0.0147 | | |
| W | 0.0898 | 0.0443 | | |
| Y | 0.0042 | 0.0021 | | |
| Zn | 0.0030 | 0.0453 | | |
| Zr | 0.0317 | 0.0037 | | |
| ANIONS | | | | |
| F | 0.5838 | 0.0530 | | |
| Cl | 1.0078 | 0.4224 | | |
| NO2 | 0.0604 | 0.0043 | | |
| Br | 0.0948 | 0.0464 | | |
| NO3 | 1.0276 | 0.1453 | | |
| PO4 | 0.0572 | 0.0411 | | |
| SO4 | 4.8710 | 0.3828 | | |
| CATIONS | | | | |
| Na | 1.3761 | 0.9414 | | |
| NH4 | 0.1512 | 0.3764 | | |
| K | 1.2707 | 0.7335 | | |
| Ca | 1.7659 | 1.3459 | | |
| Mg | 0.5073 | 0.3645 | | |
| Organic Carbon | | | | |
| OC1 | 2.2844 | 0.1142 | | |
| OC2 | 3.0856 | 0.1543 | | |
| OC3 | 4.3598 | 0.2180 | | |
| OC4 | 2.4848 | 0.1242 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 12.2146 | 0.6107 | | |
| Elemental Carbon | | | | |
| EC1 | 2.7427 | 0.1371 | | |
| EC2 | 0.4672 | 0.0234 | | |
| EC3 | 0.0807 | 0.0040 | | |
| Total EC | 3.2906 | 0.1645 | | |
| Total Carbon | 15.5052 | 0.7753 | | |

| | |
|--------------------|---|
| Source Name | Petroleum Refining-- Non- Combustion |
| Source Code | 28 |

| | | | | |
|--|---------------------|--------------------|----------------|--------------------|
| Profile | PM10 | | | |
| Location | Mumbai | | | |
| Control | Uncontrolled | | | |
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Identified percentage of total mass | 46.8627 | | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0143 | 0.0014 | | |
| n-Tritriacontane | 0.0026 | 0.0003 | | |
| n- Pentatriacontane | 0.0026 | 0.0003 | | |
| Hexadecanamide | 0.0026 | 0.0003 | | |
| Octadecanamide | 0.0914 | 0.0091 | | |
| Benzo[b]fluoranthene | 0.0712 | 0.0071 | | |
| Benzo[k]fluoranthene | 0.0649 | 0.0065 | | |
| Benzo[e]pyrene | 0.0459 | 0.0046 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0692 | 0.0069 | | |
| Indeno[1,2,3-cd]pyrene | 0.0405 | 0.0041 | | |
| Picene | 0.2401 | 0.0240 | | |
| Coronene | 0.0026 | 0.0003 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Power Plant-Natural Gas based |
| Source Code | 5002 |

Profile PM10
Location Delhi
Control Not Used

| Species | PMx | Uncertainty | PMx | Uncertainty |
|----------|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.1498 | 0.1076 | | |
| Al | 0.1962 | 0.0173 | | |
| As | 0.4732 | 0.1167 | | |
| Ba | 0.0597 | 0.0065 | | |
| Ca | 4.4072 | 0.3269 | | |
| Cd | 0.0090 | 0.0065 | | |
| Ce | 1.0259 | 0.2754 | | |
| Co | 0.0367 | 0.0264 | | |
| Cr | 0.2112 | 0.0221 | | |
| Cu | 3.6984 | 0.2689 | | |
| Fe | 12.5962 | 0.9055 | | |
| Ga | 0.0744 | 0.1710 | | |
| Hf | 0.4852 | 0.0922 | | |
| Hg | 0.0369 | 0.0265 | | |
| In | 0.4554 | 0.2214 | | |
| K | 1.8370 | 0.9174 | | |
| Lu | 0.0038 | 0.0028 | | |
| Mg | 0.0251 | 0.0180 | | |
| Mn | 0.0779 | 0.0085 | | |
| Mo | 0.2425 | 0.0409 | | |
| Na | 1.5018 | 0.2063 | | |
| Ni | 0.3035 | 0.1845 | | |
| P | 0.2010 | 0.1444 | | |
| Pb | 0.1142 | 0.1704 | | |
| Pd | 0.1326 | 0.0953 | | |
| Sb | 0.3009 | 0.1044 | | |
| Sc | 0.0061 | 0.0044 | | |
| Se | 0.4943 | 0.1088 | | |
| Si | 0.7212 | 0.0952 | | |
| Sm | 0.1519 | 0.1092 | | |
| Sn | 1.6457 | 0.1513 | | |
| Sr | 0.0083 | 0.0014 | | |
| Th | 0.1482 | 0.0397 | | |
| Ti | 0.0093 | 0.0067 | | |
| V | 0.1273 | 0.0533 | | |
| W | 0.5400 | 0.1696 | | |
| Y | 0.0111 | 0.0071 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Power Plant-Natural Gas based |
| Source Code | 5002 |

Profile PM10
Location Delhi
Control Not Used

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|----------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Zn | 1.7548 | 0.1274 | | |
| Zr | 0.0693 | 0.0148 | | |
| ANIONS | | | | |
| F | 17.2874 | 1.2482 | | |
| Cl | 10.3091 | 1.5170 | | |
| NO2 | 1.6361 | 0.1157 | | |
| Br | 0.1792 | 0.1120 | | |
| NO3 | 39.9625 | 2.9714 | | |
| PO4 | 0.1419 | 0.1020 | | |
| SO4 | 6.0087 | 0.5224 | | |
| CATIONS | | | | |
| Na | 3.5067 | 2.3416 | | |
| NH4 | 13.0537 | 1.6982 | | |
| K | 2.4660 | 1.7716 | | |
| Ca | 1.8960 | 3.2104 | | |
| Mg | 1.2593 | 0.9047 | | |
| Organic Carbon | | | | |
| OC1 | 5.8161 | 0.2908 | | |
| OC2 | 6.3917 | 0.3196 | | |
| OC3 | 9.6936 | 0.4847 | | |
| OC4 | 4.0592 | 0.2030 | | |
| OP | 0.5756 | 0.0288 | | |
| Total OC | 26.5362 | 1.3268 | | |
| Elemental Carbon | | | | |
| EC1 | 2.7566 | 0.1378 | | |
| EC2 | 2.2113 | 0.1106 | | |
| EC3 | 2.5143 | 0.1257 | | |
| Total EC | 7.4822 | 0.3741 | | |
| Total Carbon | 34.0184 | 1.7009 | | |
| Identified percentage of total mass | | | | |
| | 166.0681 | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0702 | 0.0070 | | |
| n-Tritriacontane | 0.0702 | 0.0070 | | |
| n- Pentatriacontane | 0.0702 | 0.0070 | | |
| Hexadecanamide | 3.2179 | 0.3218 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Power Plant-Natural Gas based |
| Source Code | 5002 |

Profile **PM10**
Location **Delhi**
Control **Not Used**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Octadecanamide | 0.0702 | 0.0070 | | |
| Benzo[b]fluoranthene | 0.0704 | 0.0070 | | |
| Benzo[k]fluoranthene | 0.0702 | 0.0070 | | |
| Benzo[e]pyrene | 0.3685 | 0.0368 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0702 | 0.0070 | | |
| Indeno[1,2,3-cd]pyrene | 0.0702 | 0.0070 | | |
| Picene | 0.0702 | 0.0070 | | |
| Coronene | 0.0702 | 0.0070 | | |

| | |
|--------------------|-------------|
| Source Name | Sand |
| Source Code | 6003 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0012 | 0.0013 | | |
| Al | 0.1914 | 0.0136 | | |
| As | 0.0017 | 0.0012 | | |
| Ba | 0.0655 | 0.0047 | | |
| Ca | 1.0497 | 0.0744 | | |
| Cd | 0.0023 | 0.0002 | | |
| Ce | 0.0015 | 0.0029 | | |
| Co | 0.0062 | 0.0007 | | |
| Cr | 0.0169 | 0.0013 | | |
| Cu | 0.0375 | 0.0027 | | |
| Fe | 10.5367 | 0.7452 | | |
| Ga | 0.0037 | 0.0023 | | |
| Hf | 0.0012 | 0.0009 | | |
| Hg | 0.0191 | 0.0016 | | |
| In | 0.0590 | 0.0062 | | |
| K | 0.4657 | 0.0410 | | |
| Lu | 0.0001 | 0.0000 | | |
| Mg | 0.9297 | 0.0659 | | |
| Mn | 0.1967 | 0.0139 | | |
| Mo | 0.0005 | 0.0004 | | |
| Na | 0.7247 | 0.0523 | | |
| Ni | 0.0082 | 0.0026 | | |
| P | 0.0026 | 0.0018 | | |
| Pb | 0.0142 | 0.0029 | | |
| Pd | 0.0187 | 0.0023 | | |
| Sb | 0.0025 | 0.0013 | | |
| Sc | 0.0021 | 0.0002 | | |
| Se | 0.0030 | 0.0012 | | |
| Si | 0.0937 | 0.0071 | | |
| Sm | 0.0019 | 0.0014 | | |
| Sn | 0.3576 | 0.0257 | | |
| Sr | 0.0204 | 0.0014 | | |
| Th | 0.0006 | 0.0004 | | |
| Ti | 0.3869 | 0.0274 | | |

| | |
|--------------------|-------------|
| Source Name | Sand |
| Source Code | 6003 |

Profile for PM10
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0128 | 0.0014 | | |
| W | 0.0107 | 0.0024 | | |
| Y | 0.0026 | 0.0003 | | |
| Zn | 0.0785 | 0.0056 | | |
| Zr | 0.0038 | 0.0004 | | |
| ANIONS | | | | |
| F | 0.0203 | 0.0021 | | |
| Cl | 0.3777 | 0.0436 | | |
| NO2 | 0.0068 | 0.0001 | | |
| Br | 0.0035 | 0.0025 | | |
| NO3 | 0.0586 | 0.0080 | | |
| PO4 | 0.0062 | 0.0025 | | |
| SO4 | 1.1449 | 0.0830 | | |
| CATIONS | | | | |
| Na | 0.4061 | 0.0717 | | |
| NH4 | 0.0290 | 0.0220 | | |
| K | 0.0553 | 0.0397 | | |
| Ca | 1.3936 | 0.1560 | | |
| Mg | 0.0632 | 0.0222 | | |
| Organic Carbon | | | | |
| OC1 | 0.0309 | 0.0014 | | |
| OC2 | 0.3622 | 0.0166 | | |
| OC3 | 0.9855 | 0.0452 | | |
| OC4 | 0.7628 | 0.0350 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 2.1414 | 0.0982 | | |
| Elemental Carbon | | | | |
| EC1 | 0.2834 | 0.0130 | | |
| EC2 | 0.0234 | 0.0011 | | |
| EC3 | 0.0213 | 0.0010 | | |
| Total EC | 0.3281 | 0.0150 | | |
| Total Carbon | 2.4695 | 0.1132 | | |
| Identified percentage of total mass | | | | |
| | 21.3665 | | | |

| | |
|--------------------|-------------|
| Source Name | Sand |
| Source Code | 6003 |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PM_x | Uncertainty | PM_x | Uncertainty |
|----------------|-----------------------|--------------------|-----------------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |

| Molecular Markers | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0195 | 0.0019 | | |
| n-Tritriacontane | 0.0195 | 0.0019 | | |
| n- Pentatriacontane | 0.0195 | 0.0019 | | |
| Hexadecanamide | 0.0195 | 0.0019 | | |
| Octadecanamide | 0.0195 | 0.0019 | | |
| Benzo[b]fluoranthene | 0.0195 | 0.0019 | | |
| Benzo[k]fluoranthene | 0.0195 | 0.0019 | | |
| Benzo[e]pyrene | 0.0195 | 0.0019 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0195 | 0.0019 | | |
| Indeno[1,2,3-cd]pyrene | 0.0195 | 0.0019 | | |
| Picene | 0.0195 | 0.0019 | | |
| Coronene | 0.0195 | 0.0019 | | |

| | |
|--------------------|--|
| Source Name | Secondary Metal Smelting (Lead) |
| Source Code | 46 |

Profile PM10 and PM2.5
Location Bangalore
Control Baghouse Filters

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.1190 | 0.1216 | 0.2446 | 0.1700 |
| Al | 0.0921 | 0.0109 | 0.1392 | 0.0157 |
| As | 1.7384 | 0.2165 | 0.9079 | 0.1967 |
| Ba | 0.0733 | 0.0079 | 0.0953 | 0.0107 |
| Ca | 8.3298 | 0.6101 | 14.3404 | 1.0399 |
| Cd | 0.4055 | 0.0340 | 0.3397 | 0.0315 |
| Ce | 0.5411 | 0.2830 | 0.2205 | 0.3568 |
| Co | 0.0425 | 0.0305 | 0.0579 | 0.0416 |
| Cr | 0.5484 | 0.0475 | 0.1780 | 0.0250 |
| Cu | 0.0180 | 0.0129 | 0.0220 | 0.0174 |
| Fe | 2.2664 | 0.1783 | 5.8837 | 0.4411 |
| Ga | 0.3092 | 0.2096 | 0.2662 | 0.2771 |
| Hf | 0.2992 | 0.0912 | 0.3301 | 0.1197 |
| Hg | 0.0401 | 0.0305 | 0.0582 | 0.0418 |
| In | 0.4571 | 0.2523 | 2.0605 | 0.4289 |
| K | 0.8908 | 0.9947 | 1.2275 | 1.3564 |
| Lu | 0.0062 | 0.0033 | 0.0066 | 0.0044 |
| Mg | 0.2502 | 0.0352 | 0.8012 | 0.0795 |
| Mn | 0.0408 | 0.0066 | 0.1321 | 0.0143 |
| Mo | 0.1814 | 0.0414 | 0.3454 | 0.0629 |
| Na | 0.2055 | 0.1460 | 3.6277 | 0.4184 |
| Ni | 0.2379 | 0.2073 | 0.1169 | 0.2716 |
| P | 1.2139 | 0.2265 | 2.1087 | 0.3361 |
| Pb | 17.5220 | 1.3802 | 14.8054 | 1.2444 |
| Pd | 0.1409 | 0.1095 | 0.1578 | 0.1474 |
| Sb | 0.1548 | 0.1101 | 0.1503 | 0.1468 |
| Sc | 0.0073 | 0.0051 | 0.0154 | 0.0072 |
| Se | 0.5924 | 0.1279 | 0.5798 | 0.1604 |
| Si | 3.8631 | 0.3187 | 2.6569 | 0.2546 |
| Sm | 0.1757 | 0.1262 | 0.2393 | 0.1719 |
| Sn | 1.8875 | 0.1771 | 1.3818 | 0.1593 |
| Sr | 0.0182 | 0.0022 | 0.0187 | 0.0026 |
| Th | 0.1046 | 0.0421 | 0.3160 | 0.0681 |
| Ti | 0.3718 | 0.0321 | 1.1324 | 0.0881 |

| | |
|--------------------|--|
| Source Name | Secondary Metal Smelting (Lead) |
| Source Code | 46 |

Profile PM10 and PM2.5
Location Bangalore
Control Baghouse Filters

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0807 | 0.0580 | 0.2692 | 0.0881 |
| W | 0.7403 | 0.2036 | 0.8291 | 0.2668 |
| Y | 0.0177 | 0.0085 | 0.0472 | 0.0131 |
| Zn | 0.9290 | 0.0704 | 2.2357 | 0.1634 |
| Zr | 0.0529 | 0.0157 | 0.1137 | 0.0238 |
| ANIONS | | | | |
| F | 0.1297 | 0.0356 | 0.1085 | 0.0574 |
| Cl | 3.5411 | 0.9124 | 9.6377 | 1.8564 |
| NO2 | 0.1351 | 0.0096 | 0.7370 | 0.0521 |
| Br | 0.4256 | 0.1045 | 0.2209 | 0.1587 |
| NO3 | 1.7407 | 0.2657 | 20.3100 | 1.6652 |
| PO4 | 0.1115 | 0.0801 | 0.2035 | 0.1462 |
| SO4 | 28.2538 | 2.0728 | 9.0201 | 0.7778 |
| CATIONS | | | | |
| Na | 3.5902 | 1.8856 | 4.3809 | 3.3221 |
| NH4 | 19.4095 | 1.9650 | 8.8416 | 1.8200 |
| K | 4.2887 | 1.5246 | 1.9518 | 2.4573 |
| Ca | 0.7101 | 2.4830 | 5.7989 | 4.7640 |
| Mg | 0.9895 | 0.7109 | 1.8051 | 1.2968 |
| Organic Carbon | | | | |
| OC1 | 4.5511 | 0.2276 | 8.9994 | 0.4500 |
| OC2 | 3.2610 | 0.1631 | 6.7407 | 0.3370 |
| OC3 | 1.8475 | 0.0924 | 20.4264 | 1.0213 |
| OC4 | 1.0791 | 0.0540 | 2.8660 | 0.1433 |
| OP | 0.4500 | 0.0225 | 1.0848 | 0.0542 |
| Total OC | 11.1888 | 0.5594 | 40.1173 | 2.0059 |
| Elemental Carbon | | | | |
| EC1 | 0.5345 | 0.0267 | 2.1492 | 0.1075 |
| EC2 | 0.4913 | 0.0246 | 0.8453 | 0.0423 |
| EC3 | 0.0579 | 0.0029 | 0.1141 | 0.0057 |
| Total EC | 1.0836 | 0.0542 | 3.1086 | 0.1554 |
| Total Carbon | 12.2725 | 0.6136 | 43.2259 | 2.1613 |

| | |
|--------------------|--|
| Source Name | Secondary Metal Smelting (Lead) |
| Source Code | 46 |

Profile PM10 and PM2.5
Location Bangalore
Control Baghouse Filters

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Identified percentage of total mass | 120.5640 | | 164.7008 | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0134 | 0.0013 | | |
| n-Tritriacontane | 0.0134 | 0.0013 | | |
| n- Pentatriacontane | 0.0134 | 0.0013 | | |
| Hexadecanamide | 0.0134 | 0.0013 | | |
| Octadecanamide | 0.0134 | 0.0013 | | |
| Benzo[b]fluoranthene | 0.0134 | 0.0013 | | |
| Benzo[k]fluoranthene | 0.0134 | 0.0013 | | |
| Benzo[e]pyrene | 0.0134 | 0.0013 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0134 | 0.0013 | | |
| Indeno[1,2,3-cd]pyrene | 0.0134 | 0.0013 | | |
| Picene | 0.0134 | 0.0013 | | |
| Coronene | 0.0134 | 0.0013 | | |

| | | |
|--------------------|--|--|
| Source Name | Secondary Metal Smelting (Lead) | |
| Source Code | 46 | |

Profile PM10
Location Kanpur
Control Cyclone Separator

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0016 | 0.0010 | | |
| Al | 0.0009 | 0.0001 | | |
| As | 0.1140 | 0.0087 | | |
| Ba | 0.0001 | 0.0000 | | |
| Ca | 0.0423 | 0.0032 | | |
| Cd | 0.5195 | 0.0368 | | |
| Ce | 0.0029 | 0.0023 | | |
| Co | 0.0004 | 0.0003 | | |
| Cr | 0.0004 | 0.0001 | | |
| Cu | 0.0287 | 0.0021 | | |
| Fe | 0.0322 | 0.0024 | | |
| Ga | 0.0024 | 0.0017 | | |
| Hf | 0.0022 | 0.0007 | | |
| Hg | 0.0003 | 0.0003 | | |
| In | 0.1803 | 0.0142 | | |
| K | 0.7835 | 0.0615 | | |
| Lu | 0.0001 | 0.0000 | | |
| Mg | 0.0017 | 0.0003 | | |
| Mn | 0.0003 | 0.0001 | | |
| Mo | 0.0025 | 0.0004 | | |
| Na | 0.7108 | 0.0511 | | |
| Ni | 0.0024 | 0.0017 | | |
| P | 0.0108 | 0.0019 | | |
| Pb | 76.3159 | 5.3975 | | |
| Pd | 0.0011 | 0.0009 | | |
| Sb | 0.4731 | 0.0341 | | |
| Sc | 0.0000 | 0.0000 | | |
| Se | 0.0346 | 0.0030 | | |
| Si | 0.0152 | 0.0015 | | |
| Sm | 0.0015 | 0.0010 | | |
| Sn | 2.1376 | 0.1515 | | |

| | | |
|--------------------|--|--|
| Source Name | Secondary Metal Smelting (Lead) | |
| Source Code | 46 | |

Profile PM10
Location Kanpur
Control Cyclone Separator

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sr | 0.0001 | 0.0000 | | |
| Th | 0.0015 | 0.0004 | | |
| Ti | 0.0004 | 0.0001 | | |
| V | 0.0007 | 0.0005 | | |
| W | 0.0050 | 0.0016 | | |
| Y | 0.0001 | 0.0001 | | |
| Zn | 0.1856 | 0.0132 | | |
| Zr | 0.0006 | 0.0001 | | |
| ANIONS | | | | |
| F | 0.1320 | 0.0028 | | |
| Cl | 1.3139 | 0.1331 | | |
| NO2 | 0.0205 | 0.0005 | | |
| Br | 0.0361 | 0.0043 | | |
| NO3 | 0.6967 | 0.0720 | | |
| PO4 | 0.0022 | 0.0009 | | |
| SO4 | 2.0814 | 0.1894 | | |
| CATIONS | | | | |
| Na | 0.4530 | 0.0601 | | |
| NH4 | 0.1481 | 0.0130 | | |
| K | 0.9569 | 0.1041 | | |
| Ca | 0.0564 | 0.0290 | | |
| Mg | 0.0170 | 0.0079 | | |
| Organic Carbon | | | | |
| OC1 | 0.0277 | 0.0014 | | |
| OC2 | 0.1355 | 0.0068 | | |
| OC3 | 0.2360 | 0.0118 | | |
| OC4 | 0.0333 | 0.0017 | | |
| OP | 0.0063 | 0.0003 | | |
| Total OC | 0.4387 | 0.0219 | | |
| Elemental Carbon | | | | |
| EC1 | 0.0060 | 0.0003 | | |
| EC2 | 0.0026 | 0.0001 | | |

| | | |
|--------------------|--|--|
| Source Name | Secondary Metal Smelting (Lead) | |
| Source Code | 46 | |

Profile PM10
Location Kanpur
Control Cyclone Separator

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC3 | 0.0057 | 0.0003 | | |
| Total EC | 0.0144 | 0.0007 | | |
| Total Carbon | 0.4531 | 0.0227 | | |
| | | | | |
| Identified percentage of total mass | 87.9805 | | | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0147 | 0.0015 | | |
| n- Tritriacontane | 0.0147 | 0.0015 | | |
| n- Pentatriacontane | 0.0147 | 0.0015 | | |
| Hexadecanamide | 0.0147 | 0.0015 | | |
| Octadecanamide | 0.4507 | 0.0451 | | |
| Benzo[b]fluoranthene | 0.0372 | 0.0037 | | |
| Benzo[k]fluoranthene | 0.0194 | 0.0019 | | |
| Benzo[e]pyrene | 0.1843 | 0.0184 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0147 | 0.0015 | | |
| Indeno[1,2,3-cd]pyrene | 0.1334 | 0.0133 | | |
| Picene | 0.2583 | 0.0258 | | |
| Coronene | 0.0147 | 0.0015 | | |

| | |
|--------------------|--|
| Source Name | Soil Dust-Bangalore (Composite) |
| Source Code | 54 |

Profile
Location
Control

PM10
Laboratory
Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|----------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0089 | 0.0087 | | |
| Al | 0.1196 | 0.0062 | | |
| As | 0.0226 | 0.0089 | | |
| Ba | 0.0356 | 0.0040 | | |
| Ca | 2.1028 | 0.1274 | | |
| Cd | 0.0033 | 0.0008 | | |
| Ce | 0.0279 | 0.0200 | | |
| Co | 0.0031 | 0.0022 | | |
| Cr | 0.0224 | 0.0015 | | |
| Cu | 0.0093 | 0.0016 | | |
| Fe | 6.2356 | 0.3805 | | |
| Ga | 0.0049 | 0.0148 | | |
| Hf | 0.0049 | 0.0058 | | |
| Hg | 0.0076 | 0.0022 | | |
| In | 0.0576 | 0.0250 | | |
| K | 0.2931 | 0.0853 | | |
| Lu | 0.0003 | 0.0002 | | |
| Mg | 0.6109 | 0.0293 | | |
| Mn | 0.1153 | 0.0059 | | |
| Mo | 0.0037 | 0.0025 | | |
| Na | 0.1535 | 0.0116 | | |
| Ni | 0.0214 | 0.0151 | | |
| P | 0.0170 | 0.0122 | | |
| Pb | 0.0311 | 0.0168 | | |
| Pd | 0.0170 | 0.0081 | | |
| Sb | 0.0151 | 0.0086 | | |
| Sc | 0.0009 | 0.0004 | | |
| Se | 0.0153 | 0.0074 | | |
| Si | 0.2176 | 0.0114 | | |
| Sm | 0.0129 | 0.0092 | | |
| Sn | 1.2799 | 0.1578 | | |

| | |
|--------------------|--|
| Source Name | Soil Dust-Bangalore (Composite) |
| Source Code | 54 |

Profile
Location
Control

PM10
Laboratory
Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sr | 0.0059 | 0.0004 | | |
| Th | 0.0143 | 0.0035 | | |
| Ti | 0.1440 | 0.0083 | | |
| V | 0.0059 | 0.0042 | | |
| W | 0.0179 | 0.0128 | | |
| Y | 0.0013 | 0.0007 | | |
| Zn | 0.1136 | 0.0162 | | |
| Zr | 0.0021 | 0.0011 | | |
| ANIONS | | | | |
| F | 0.1414 | 0.0113 | | |
| Cl | 0.1562 | 0.0522 | | |
| NO2 | 0.0550 | 0.0039 | | |
| Br | 0.0074 | 0.0053 | | |
| NO3 | 0.2224 | 0.0240 | | |
| PO4 | 0.0068 | 0.0049 | | |
| SO4 | 0.1901 | 0.0185 | | |
| CATIONS | | | | |
| Na | 0.1073 | 0.1090 | | |
| NH4 | 0.1123 | 0.0499 | | |
| K | 0.0922 | 0.0835 | | |
| Ca | 1.2975 | 0.2239 | | |
| Mg | 0.0603 | 0.0433 | | |
| Organic Carbon | | | | |
| OC1 | 1.0044 | 0.0502 | | |
| OC2 | 3.2404 | 0.1620 | | |
| OC3 | 8.6624 | 0.4331 | | |
| OC4 | 5.2215 | 0.2611 | | |
| OP | 0.3275 | 0.0164 | | |
| Total OC | 18.4562 | 0.9228 | | |
| Elemental Carbon | | | | |
| EC1 | 0.6153 | 0.0308 | | |
| EC2 | 0.3080 | 0.0154 | | |

| | |
|--------------------|--|
| Source Name | Soil Dust-Bangalore (Composite) |
| Source Code | 54 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PM_x | Uncertainty | PM_x | Uncertainty |
|--|-----------------------|--------------------|-----------------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC3 | 0.0041 | 0.0002 | | |
| Total EC | 0.9274 | 0.0464 | | |
| Total Carbon | 19.3836 | 0.9692 | | |
| Identified percentage of total mass | 33.6087 | | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.1148 | 0.0115 | | |
| n-Tritriacontane | 0.2119 | 0.0212 | | |
| n- Pentatriacontane | 0.1225 | 0.0123 | | |
| Hexadecanamide | 0.6835 | 0.0684 | | |
| Octadecanamide | 0.1529 | 0.0153 | | |
| Benzo[b]fluoranthene | 0.0041 | 0.0004 | | |
| Benzo[k]fluoranthene | 0.0484 | 0.0048 | | |
| Benzo[e]pyrene | 0.0213 | 0.0021 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0979 | 0.0098 | | |
| Indeno[1,2,3-cd]pyrene | 0.0041 | 0.0004 | | |
| Picene | 0.0041 | 0.0004 | | |
| Coronene | 0.3335 | 0.0334 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Soil Dust-Chennai (Composite) |
| Source Code | 54 |

Profile
Location
Control

PM10
Laboratory
Not Available

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0042 | 0.0030 | | |
| Al | 0.0893 | 0.0052 | | |
| As | 0.0017 | 0.0026 | | |
| Ba | 0.0551 | 0.0036 | | |
| Ca | 3.5787 | 0.2305 | | |
| Cd | 0.0029 | 0.0003 | | |
| Ce | 0.0093 | 0.0067 | | |
| Co | 0.0010 | 0.0007 | | |
| Cr | 0.0113 | 0.0011 | | |
| Cu | 0.0210 | 0.0015 | | |
| Fe | 4.2035 | 0.2589 | | |
| Ga | 0.0055 | 0.0050 | | |
| Hf | 0.0018 | 0.0019 | | |
| Hg | 0.0055 | 0.0009 | | |
| In | 0.1043 | 0.0126 | | |
| K | 0.3087 | 0.0409 | | |
| Lu | 0.0001 | 0.0001 | | |
| Mg | 0.4847 | 0.0283 | | |
| Mn | 0.0919 | 0.0053 | | |
| Mo | 0.0006 | 0.0008 | | |
| Na | 0.0242 | 0.0058 | | |
| Ni | 0.0071 | 0.0050 | | |
| P | 0.2463 | 0.0159 | | |
| Pb | 0.0819 | 0.0071 | | |
| Pd | 0.0053 | 0.0027 | | |
| Sb | 0.0097 | 0.0030 | | |
| Sc | 0.0005 | 0.0001 | | |
| Se | 0.0025 | 0.0024 | | |
| Si | 0.1623 | 0.0130 | | |
| Sm | 0.0043 | 0.0031 | | |
| Sn | 1.0918 | 0.0842 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Soil Dust-Chennai (Composite) |
| Source Code | 54 |

| Profile Location Control | PM10 Laboratory Not Available | | | |
|---|--|--------------------|----------------|--------------------|
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sr | 0.0114 | 0.0007 | | |
| Th | 0.0009 | 0.0009 | | |
| Ti | 0.1016 | 0.0062 | | |
| V | 0.0020 | 0.0014 | | |
| W | 0.0059 | 0.0043 | | |
| Y | 0.0008 | 0.0002 | | |
| Zn | 0.1378 | 0.0108 | | |
| Zr | 0.0004 | 0.0003 | | |
| ANIONS | | | | |
| F | 0.1495 | 0.0116 | | |
| Cl | 0.0489 | 0.0352 | | |
| NO2 | 0.0108 | 0.0008 | | |
| Br | 0.1172 | 0.0115 | | |
| NO3 | 0.0047 | 0.0074 | | |
| PO4 | 0.0055 | 0.0037 | | |
| SO4 | 0.2599 | 0.0220 | | |
| CATIONS | | | | |
| Na | 0.0933 | 0.0821 | | |
| NH4 | 0.0764 | 0.0368 | | |
| K | 0.1972 | 0.0696 | | |
| Ca | 1.8637 | 0.2251 | | |
| Mg | 0.0253 | 0.0314 | | |
| Organic Carbon | | | | |
| OC1 | 0.0817 | 0.0041 | | |
| OC2 | 0.5707 | 0.0285 | | |
| OC3 | 2.3805 | 0.1190 | | |
| OC4 | 1.9966 | 0.0998 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 5.0295 | 0.2515 | | |
| Elemental Carbon | | | | |
| EC1 | 1.3417 | 0.0671 | | |
| EC2 | 0.3851 | 0.0193 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | Soil Dust-Chennai (Composite) |
| Source Code | 54 |

Profile **PM10**
Location **Laboratory**
Control **Not Available**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC3 | 0.0337 | 0.0017 | | |
| Total EC | 1.7605 | 0.0880 | | |
| Total Carbon | 6.7900 | 0.3395 | | |
| | | | | |
| Identified percentage of total mass | 20.5203 | | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0118 | 0.0012 | | |
| n-Tritriacontane | 0.0118 | 0.0012 | | |
| n- Pentatriacontane | 0.0118 | 0.0012 | | |
| Hexadecanamide | 0.0118 | 0.0012 | | |
| Octadecanamide | 0.0118 | 0.0012 | | |
| Benzo[b]fluoranthene | 0.0118 | 0.0012 | | |
| Benzo[k]fluoranthene | 0.0118 | 0.0012 | | |
| Benzo[e]pyrene | 0.0118 | 0.0012 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0118 | 0.0012 | | |
| Indeno[1,2,3-cd]pyrene | 0.0118 | 0.0012 | | |
| Picene | 0.0118 | 0.0012 | | |
| Coronene | 0.0118 | 0.0012 | | |

| | |
|--------------------|------------------------------------|
| Source Name | Soil Dust-Delhi (Composite) |
| Source Code | 54 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0014 | 0.0014 | | |
| Al | 0.1096 | 0.0073 | | |
| As | 0.0022 | 0.0013 | | |
| Ba | 0.0342 | 0.0036 | | |
| Ca | 0.9524 | 0.0618 | | |
| Cd | 0.0010 | 0.0002 | | |
| Ce | 0.0045 | 0.0032 | | |
| Co | 0.0005 | 0.0004 | | |
| Cr | 0.0217 | 0.0007 | | |
| Cu | 0.0239 | 0.0025 | | |
| Fe | 4.0697 | 0.4550 | | |
| Ga | 0.0028 | 0.0024 | | |
| Hf | 0.0006 | 0.0009 | | |
| Hg | 0.0062 | 0.0009 | | |
| In | 0.0587 | 0.0079 | | |
| K | 0.7574 | 0.1315 | | |
| Lu | 0.0001 | 0.0000 | | |
| Mg | 0.9303 | 0.1076 | | |
| Mn | 0.1090 | 0.0074 | | |
| Mo | 0.0004 | 0.0004 | | |
| Na | 0.1682 | 0.0202 | | |
| Ni | 0.0040 | 0.0027 | | |
| P | 0.0230 | 0.0037 | | |
| Pb | 0.0251 | 0.0039 | | |
| Pd | 0.0062 | 0.0019 | | |
| Sb | 0.0046 | 0.0015 | | |
| Sc | 0.0005 | 0.0001 | | |

| | |
|--------------------|------------------------------------|
| Source Name | Soil Dust-Delhi (Composite) |
| Source Code | 54 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Se | 0.0011 | 0.0012 | | |
| Si | 0.1962 | 0.0171 | | |
| Sm | 0.0021 | 0.0015 | | |
| Sn | 0.5884 | 0.0437 | | |
| Sr | 0.0101 | 0.0011 | | |
| Th | 0.0020 | 0.0005 | | |
| Ti | 0.0899 | 0.0115 | | |
| V | 0.0010 | 0.0007 | | |
| W | 0.0029 | 0.0021 | | |
| Y | 0.0007 | 0.0002 | | |
| Zn | 0.0677 | 0.0068 | | |
| Zr | 0.0002 | 0.0002 | | |
| ANIONS | | | | |
| F | 0.0408 | 0.0035 | | |
| Cl | 0.2450 | 0.0332 | | |
| NO2 | 0.0234 | 0.0017 | | |
| Br | 0.0023 | 0.0021 | | |
| NO3 | 0.1187 | 0.0117 | | |
| PO4 | 0.0027 | 0.0020 | | |
| SO4 | 0.1970 | 0.0158 | | |
| CATIONS | | | | |
| Na | 0.1673 | 0.0508 | | |
| NH4 | 0.0418 | 0.0198 | | |
| K | 0.2398 | 0.0454 | | |
| Ca | 1.3014 | 0.1408 | | |
| Mg | 0.1062 | 0.0221 | | |
| Organic Carbon | | | | |
| OC1 | 0.0085 | 0.0004 | | |

| | |
|--------------------|------------------------------------|
| Source Name | Soil Dust-Delhi (Composite) |
| Source Code | 54 |

| Profile | PM10 | | | |
|--|-----------------------|--------------------|----------------|--------------------|
| Location | Laboratory | | | |
| Control | Not Applicable | | | |
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| OC2 | 0.1694 | 0.0085 | | |
| OC3 | 0.7183 | 0.0359 | | |
| OC4 | 0.8733 | 0.0437 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 1.7695 | 0.0885 | | |
| Elemental Carbon | | | | |
| EC1 | 0.4127 | 0.0206 | | |
| EC2 | 0.1539 | 0.0077 | | |
| EC3 | 0.0419 | 0.0021 | | |
| Total EC | 0.6085 | 0.0304 | | |
| Total Carbon | 2.3781 | 0.1189 | | |
| Identified percentage of total mass | | | | |
| | 13.1450 | | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.1850 | 0.0185 | | |
| n-Tritriacontane | 0.0697 | 0.0070 | | |
| n- Pentatriacontane | 0.0697 | 0.0070 | | |
| Hexadecanamide | 0.0697 | 0.0070 | | |
| Octadecanamide | 0.0697 | 0.0070 | | |
| Benzo[b]fluoranthene | 0.0697 | 0.0070 | | |
| Benzo[k]fluoranthene | 0.0697 | 0.0070 | | |
| Benzo[e]pyrene | 0.0697 | 0.0070 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0697 | 0.0070 | | |
| Indeno[1,2,3-cd]pyrene | 0.0697 | 0.0070 | | |
| Picene | 0.0697 | 0.0070 | | |
| Coronene | 0.0697 | 0.0070 | | |

| | |
|--------------------|-------------------------------------|
| Source Name | Soil Dust-Kanpur (Composite) |
| Source Code | 54 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0015 | 0.0011 | | |
| Al | 0.0688 | 0.0044 | | |
| As | 0.0016 | 0.0010 | | |
| Ba | 0.0237 | 0.0018 | | |
| Ca | 1.0119 | 0.0513 | | |
| Cd | 0.0011 | 0.0002 | | |
| Ce | 0.0024 | 0.0024 | | |
| Co | 0.0003 | 0.0003 | | |
| Cr | 0.0064 | 0.0005 | | |
| Cu | 0.0046 | 0.0004 | | |
| Fe | 4.2474 | 0.2669 | | |
| Ga | 0.0021 | 0.0018 | | |
| Hf | 0.0008 | 0.0007 | | |
| Hg | 0.0063 | 0.0006 | | |
| In | 0.0338 | 0.0043 | | |
| K | 1.2721 | 0.0783 | | |
| Lu | 0.0000 | 0.0000 | | |
| Mg | 1.1043 | 0.0750 | | |
| Mn | 0.0662 | 0.0042 | | |
| Mo | 0.0003 | 0.0003 | | |
| Na | 0.0798 | 0.0137 | | |
| Ni | 0.0027 | 0.0019 | | |
| P | 0.0342 | 0.0048 | | |
| Pb | 0.0119 | 0.0035 | | |
| Pd | 0.0078 | 0.0014 | | |
| Sb | 0.0036 | 0.0010 | | |
| Sc | 0.0007 | 0.0001 | | |
| Se | 0.0010 | 0.0009 | | |
| Si | 0.0883 | 0.0055 | | |
| Sm | 0.0016 | 0.0011 | | |

| | |
|--------------------|-------------------------------------|
| Source Name | Soil Dust-Kanpur (Composite) |
| Source Code | 54 |

| Profile Location Control | PM10 Laboratory Not Applicable | | | |
|---------------------------------|---------------------------------------|--------------------|----------------|--------------------|
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sn | 0.4250 | 0.0281 | | |
| Sr | 0.0049 | 0.0007 | | |
| Th | 0.0010 | 0.0004 | | |
| Ti | 0.1202 | 0.0076 | | |
| V | 0.0006 | 0.0005 | | |
| W | 0.0022 | 0.0016 | | |
| Y | 0.0010 | 0.0001 | | |
| Zn | 0.0406 | 0.0034 | | |
| Zr | 0.0003 | 0.0001 | | |
| ANIONS | | | | |
| F | 0.2671 | 0.0193 | | |
| Cl | 0.0199 | 0.0143 | | |
| NO2 | 0.0049 | 0.0003 | | |
| Br | 0.0052 | 0.0018 | | |
| NO3 | 0.0044 | 0.0032 | | |
| PO4 | 0.0021 | 0.0015 | | |
| SO4 | 0.1186 | 0.0098 | | |
| CATIONS | | | | |
| Na | 0.0475 | 0.0339 | | |
| NH4 | 0.0292 | 0.0149 | | |
| K | 0.1550 | 0.0327 | | |
| Ca | 0.6756 | 0.0861 | | |
| Mg | 0.0530 | 0.0151 | | |
| Organic Carbon | | | | |
| OC1 | 0.0054 | 0.0003 | | |
| OC2 | 0.2193 | 0.0110 | | |
| OC3 | 0.7605 | 0.0380 | | |
| OC4 | 0.7645 | 0.0382 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 1.7497 | 0.0875 | | |
| Elemental Carbon | | | | |

| | |
|--------------------|-------------------------------------|
| Source Name | Soil Dust-Kanpur (Composite) |
| Source Code | 54 |

| Profile | PM10 | | | |
|--|-----------------------|--------------------|----------------|--------------------|
| Location | Laboratory | | | |
| Control | Not Applicable | | | |
| Species | PMx | Uncertainty | PMx | Uncertainty |
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC1 | 0.3325 | 0.0166 | | |
| EC2 | 0.1405 | 0.0070 | | |
| EC3 | 0.0361 | 0.0018 | | |
| Total EC | 0.5092 | 0.0255 | | |
| Total Carbon | 2.2589 | 0.1129 | | |
| | | | | |
| Identified percentage of total mass | 12.3245 | | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.2274 | 0.0227 | | |
| n-Tritriacontane | 0.0474 | 0.0047 | | |
| n- Pentatriacontane | 0.0474 | 0.0047 | | |
| Hexadecanamide | 0.0474 | 0.0047 | | |
| Octadecanamide | 0.0474 | 0.0047 | | |
| Benzo[b]fluoranthene | 0.3993 | 0.0399 | | |
| Benzo[k]fluoranthene | 0.2650 | 0.0265 | | |
| Benzo[e]pyrene | 0.1240 | 0.0124 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.3776 | 0.0378 | | |
| Indeno[1,2,3-cd]pyrene | 0.4137 | 0.0414 | | |
| Picene | 3.0696 | 0.3070 | | |
| Coronene | 0.0474 | 0.0047 | | |

| | |
|--------------------|-------------------------------------|
| Source Name | Soil Dust-Mumbai (Composite) |
| Source Code | 54 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0035 | 0.0035 | 0.0252 | 0.0171 |
| Al | 0.1954 | 0.0139 | 0.1743 | 0.0128 |
| As | 0.0137 | 0.0037 | 0.0524 | 0.0172 |
| Ba | 0.0327 | 0.0024 | 0.0323 | 0.0026 |
| Ca | 2.2323 | 0.1583 | 0.4589 | 0.0351 |
| Cd | 0.0083 | 0.0007 | 0.0020 | 0.0011 |
| Ce | 0.0114 | 0.0078 | 0.0494 | 0.0372 |
| Co | 0.0032 | 0.0010 | 0.0033 | 0.0040 |
| Cr | 0.0211 | 0.0017 | 0.0235 | 0.0029 |
| Cu | 0.0221 | 0.0018 | 0.0159 | 0.0026 |
| Fe | 9.5918 | 0.6787 | 8.5889 | 0.6097 |
| Ga | 0.0052 | 0.0058 | 0.0300 | 0.0280 |
| Hf | 0.0028 | 0.0023 | 0.0208 | 0.0113 |
| Hg | 0.0344 | 0.0031 | 0.0341 | 0.0059 |
| In | 0.0316 | 0.0082 | 0.0581 | 0.0343 |
| K | 0.1683 | 0.0364 | 0.2178 | 0.1412 |
| Lu | 0.0001 | 0.0001 | 0.0006 | 0.0004 |
| Mg | 0.9762 | 0.0694 | 0.8872 | 0.0647 |
| Mn | 0.1852 | 0.0132 | 0.1638 | 0.0120 |
| Mo | 0.0029 | 0.0010 | 0.0333 | 0.0062 |
| Na | 0.0372 | 0.0060 | 0.0561 | 0.0216 |
| Ni | 0.0147 | 0.0063 | 0.0370 | 0.0286 |
| P | 0.0563 | 0.0078 | 0.1566 | 0.0302 |
| Pb | 0.0826 | 0.0107 | 0.0220 | 0.0272 |
| Pd | 0.0071 | 0.0033 | 0.0196 | 0.0150 |
| Sb | 0.0028 | 0.0030 | 0.0125 | 0.0146 |
| Sc | 0.0021 | 0.0003 | 0.0011 | 0.0007 |
| Se | 0.0108 | 0.0033 | 0.1112 | 0.0193 |
| Si | 0.0555 | 0.0054 | 0.1038 | 0.0149 |
| Sm | 0.0123 | 0.0040 | 0.0240 | 0.0173 |
| Sn | 0.0566 | 0.0052 | 0.0893 | 0.0126 |
| Sr | 0.0123 | 0.0009 | 0.0115 | 0.0009 |
| Th | 0.0100 | 0.0016 | 0.0151 | 0.0058 |
| Ti | 0.4038 | 0.0287 | 0.3524 | 0.0256 |
| V | 0.0172 | 0.0026 | 0.0542 | 0.0105 |
| W | 0.0213 | 0.0058 | 0.0497 | 0.0249 |

| | |
|--------------------|-------------------------------------|
| Source Name | Soil Dust-Mumbai (Composite) |
| Source Code | 54 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Y | 0.0029 | 0.0004 | 0.0012 | 0.0011 |
| Zn | 0.0612 | 0.0044 | 0.0645 | 0.0052 |
| Zr | 0.0037 | 0.0006 | 0.0082 | 0.0022 |
| ANIONS | | | | |
| F | 0.1311 | 0.0109 | 0.0859 | 0.0164 |
| Cl | 0.0941 | 0.0556 | 0.4373 | 0.3142 |
| NO2 | 0.0168 | 0.0012 | 0.0643 | 0.0045 |
| Br | 0.0086 | 0.0062 | 0.0493 | 0.0354 |
| NO3 | 0.0479 | 0.0139 | 6.3112 | 0.4980 |
| PO4 | 0.0079 | 0.0057 | 0.0454 | 0.0326 |
| SO4 | 0.2684 | 0.0246 | 1.3973 | 0.1324 |
| CATIONS | | | | |
| Na | 0.1720 | 0.1289 | 1.0364 | 0.7446 |
| NH4 | 0.0763 | 0.0548 | 0.4391 | 0.3155 |
| K | 0.1371 | 0.0985 | 0.7889 | 0.5668 |
| Ca | 0.9379 | 0.2252 | 0.9565 | 1.0453 |
| Mg | 0.0997 | 0.0519 | 0.4029 | 0.2894 |
| Organic Carbon | | | | |
| OC1 | 0.1845 | 0.0092 | 2.2019 | 0.1101 |
| OC2 | 0.4293 | 0.0215 | 2.1536 | 0.1077 |
| OC3 | 1.9963 | 0.0998 | 4.2737 | 0.2137 |
| OC4 | 1.3078 | 0.0654 | 2.7005 | 0.1350 |
| OP | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total OC | 3.9179 | 0.1959 | 11.3297 | 0.5665 |
| Elemental Carbon | | | | |
| EC1 | 1.2342 | 0.0617 | 2.1059 | 0.1053 |
| EC2 | 0.6415 | 0.0321 | 0.9080 | 0.0454 |
| EC3 | 0.1485 | 0.0074 | 0.1397 | 0.0070 |
| Total EC | 2.0242 | 0.1012 | 3.1536 | 0.1577 |
| Total Carbon | 5.9421 | 0.2971 | 14.4833 | 0.7242 |
| Identified percentage of total mass | | | | |
| | 22.3525 | | 38.5597 | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0032 | 0.0003 | | |

| | |
|--------------------|-------------------------------------|
| Source Name | Soil Dust-Mumbai (Composite) |
| Source Code | 54 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PM_x x=10µm | Uncertainty ± (%) | PM_x x=2.5µm | Uncertainty ± (%) |
|------------------------------|--|------------------------------------|---|------------------------------------|
| n-Tritriacontane | 0.0032 | 0.0003 | | |
| n- Pentatriacontane | 0.0032 | 0.0003 | | |
| Hexadecanamide | 0.3235 | 0.0324 | | |
| Octadecanamide | 0.0032 | 0.0003 | | |
| Benzo[b]fluoranthene | 0.0051 | 0.0005 | | |
| Benzo[k]fluoranthene | 0.0032 | 0.0003 | | |
| Benzo[e]pyrene | 0.0080 | 0.0008 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0032 | 0.0003 | | |
| Indeno[1,2,3-cd]pyrene | 0.0032 | 0.0003 | | |
| Picene | 0.0032 | 0.0003 | | |
| Coronene | 0.0032 | 0.0003 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Soil Dust-Pune (Composite) |
| Source Code | 54 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|----------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0072 | 0.0061 | 0.0219 | 0.0123 |
| Al | 0.1572 | 0.0113 | 0.1252 | 0.0092 |
| As | 0.0109 | 0.0058 | 0.0203 | 0.0112 |
| Ba | 0.0332 | 0.0025 | 0.0304 | 0.0024 |
| Ca | 6.2073 | 0.4398 | 4.9710 | 0.3532 |
| Cd | 0.0027 | 0.0005 | 0.0007 | 0.0007 |
| Ce | 0.0201 | 0.0136 | 0.0419 | 0.0266 |
| Co | 0.0032 | 0.0016 | 0.0041 | 0.0029 |
| Cr | 0.5845 | 0.0418 | 0.0098 | 0.0016 |
| Cu | 0.0242 | 0.0022 | 0.0129 | 0.0019 |
| Fe | 8.5381 | 0.6046 | 6.3425 | 0.4501 |
| Ga | 0.0043 | 0.0098 | 0.0162 | 0.0195 |
| Hf | 0.0042 | 0.0039 | 0.0085 | 0.0076 |
| Hg | 0.0163 | 0.0024 | 0.0131 | 0.0035 |
| In | 0.0310 | 0.0130 | 0.0476 | 0.0245 |
| K | 0.2541 | 0.0611 | 0.6327 | 0.1286 |
| Lu | 0.0002 | 0.0002 | 0.0004 | 0.0003 |
| Mg | 1.3672 | 0.0974 | 1.2853 | 0.0922 |
| Mn | 0.1532 | 0.0110 | 0.1222 | 0.0089 |
| Mo | 0.0015 | 0.0016 | 0.0019 | 0.0031 |
| Na | 0.1880 | 0.0187 | 0.2535 | 0.0291 |
| Ni | 0.1832 | 0.0217 | 0.0133 | 0.0195 |
| P | 0.0452 | 0.0103 | 0.0756 | 0.0193 |
| Pb | 0.0324 | 0.0112 | 0.0513 | 0.0211 |
| Pd | 0.0059 | 0.0054 | 0.0165 | 0.0107 |
| Sb | 0.0048 | 0.0053 | 0.0148 | 0.0106 |
| Sc | 0.0013 | 0.0003 | 0.0007 | 0.0005 |
| Se | 0.0219 | 0.0059 | 0.0396 | 0.0113 |
| Si | 0.0440 | 0.0058 | 0.0655 | 0.0099 |
| Sm | 0.0087 | 0.0063 | 0.0169 | 0.0122 |
| Sn | 0.1337 | 0.0114 | 0.0894 | 0.0108 |
| Sr | 0.0202 | 0.0015 | 0.0188 | 0.0014 |
| Th | 0.0146 | 0.0027 | 0.0053 | 0.0038 |
| Ti | 0.3728 | 0.0266 | 0.2885 | 0.0209 |
| V | 0.0214 | 0.0039 | 0.0327 | 0.0071 |
| W | 0.0121 | 0.0087 | 0.0235 | 0.0169 |
| Y | 0.0013 | 0.0004 | 0.0017 | 0.0008 |

| | |
|--------------------|-----------------------------------|
| Source Name | Soil Dust-Pune (Composite) |
| Source Code | 54 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Zn | 0.0635 | 0.0047 | 0.0371 | 0.0031 |
| Zr | 0.0040 | 0.0009 | 0.0105 | 0.0018 |
| ANIONS | | | | |
| F | 0.0074 | 0.0035 | 1.2796 | 0.0958 |
| Cl | 0.1171 | 0.0833 | 0.2320 | 0.1667 |
| NO2 | 0.0256 | 0.0018 | 0.0512 | 0.0036 |
| Br | 0.0131 | 0.0094 | 0.0261 | 0.0188 |
| NO3 | 0.0256 | 0.0184 | 0.0512 | 0.0368 |
| PO4 | 0.0120 | 0.0086 | 0.0241 | 0.0173 |
| SO4 | 0.1249 | 0.0184 | 0.1490 | 0.0303 |
| CATIONS | | | | |
| Na | 0.3496 | 0.2014 | 0.5498 | 0.3950 |
| NH4 | 0.1164 | 0.0836 | 0.2329 | 0.1673 |
| K | 0.2091 | 0.1502 | 0.4185 | 0.3007 |
| Ca | 1.9143 | 0.3725 | 1.9346 | 0.6329 |
| Mg | 0.1054 | 0.0767 | 0.2137 | 0.1535 |
| Organic Carbon | | | | |
| OC1 | 0.1603 | 0.0080 | 0.2264 | 0.0113 |
| OC2 | 0.7795 | 0.0390 | 0.7379 | 0.0369 |
| OC3 | 2.0921 | 0.1046 | 1.7570 | 0.0879 |
| OC4 | 1.8168 | 0.0908 | 1.4028 | 0.0701 |
| OP | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total OC | 4.8487 | 0.2424 | 4.1241 | 0.2062 |
| Elemental Carbon | | | | |
| EC1 | 1.6410 | 0.0820 | 1.0068 | 0.0503 |
| EC2 | 0.7506 | 0.0375 | 0.5131 | 0.0257 |
| EC3 | 0.1347 | 0.0067 | 0.0085 | 0.0004 |
| Total EC | 2.5263 | 0.1263 | 1.5283 | 0.0764 |
| Total Carbon | 7.3750 | 0.3687 | 5.6525 | 0.2826 |
| Identified percentage of total mass | | | | |
| | 28.9028 | | 23.9537 | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0203 | 0.0020 | | |
| n- Tritriacontane | 0.0203 | 0.0020 | | |
| n- Pentatriacontane | 0.3285 | 0.0328 | | |

| | |
|--------------------|-----------------------------------|
| Source Name | Soil Dust-Pune (Composite) |
| Source Code | 54 |

Profile PM10
Location Laboratory
Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Hexadecanamide | 0.0203 | 0.0020 | | |
| Octadecanamide | 0.6009 | 0.0601 | | |
| Benzo[b]fluoranthene | 0.0203 | 0.0020 | | |
| Benzo[k]fluoranthene | 0.0203 | 0.0020 | | |
| Benzo[e]pyrene | 0.0203 | 0.0020 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0203 | 0.0020 | | |
| Indeno[1,2,3-cd]pyrene | 0.0203 | 0.0020 | | |
| Picene | 0.0203 | 0.0020 | | |
| Coronene | 0.0203 | 0.0020 | | |

| | |
|--------------------|---|
| Source Name | Solid Waste Open Burning-Commerical Area |
| Source Code | 18 |

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0014 | 0.0029 | | |
| Al | 0.0041 | 0.0004 | | |
| As | 0.0038 | 0.0027 | | |
| Ba | 0.0158 | 0.0012 | | |
| Ca | 0.4370 | 0.0313 | | |
| Cd | 0.0009 | 0.0002 | | |
| Ce | 0.0092 | 0.0066 | | |
| Co | 0.0010 | 0.0007 | | |
| Cr | 0.0032 | 0.0004 | | |
| Cu | 0.0003 | 0.0003 | | |
| Fe | 0.4858 | 0.0348 | | |
| Ga | 0.0002 | 0.0047 | | |
| Hf | 0.0027 | 0.0020 | | |
| Hg | 0.0010 | 0.0007 | | |
| In | 0.0620 | 0.0092 | | |
| K | 0.1064 | 0.0288 | | |
| Lu | 0.0001 | 0.0001 | | |
| Mg | 0.0006 | 0.0005 | | |
| Mn | 0.0034 | 0.0003 | | |
| Mo | 0.0011 | 0.0008 | | |
| Na | 0.2137 | 0.0176 | | |
| Ni | 0.0008 | 0.0048 | | |
| P | 0.0056 | 0.0040 | | |
| Pb | 0.0168 | 0.0055 | | |
| Pd | 0.0036 | 0.0027 | | |
| Sb | 0.0100 | 0.0030 | | |
| Sc | 0.0002 | 0.0001 | | |
| Se | 0.0035 | 0.0025 | | |
| Si | 0.0605 | 0.0054 | | |
| Sm | 0.0043 | 0.0031 | | |
| Sn | 1.1174 | 0.0799 | | |
| Sr | 0.0008 | 0.0001 | | |
| Th | 0.0008 | 0.0009 | | |
| Ti | 0.0072 | 0.0006 | | |

| | |
|--------------------|---|
| Source Name | Solid Waste Open Burning-Commerical Area |
| Source Code | 18 |

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0020 | 0.0014 | | |
| W | 0.0059 | 0.0042 | | |
| Y | 0.0003 | 0.0002 | | |
| Zn | 0.0831 | 0.0060 | | |
| Zr | 0.0001 | 0.0003 | | |
| ANIONS | | | | |
| F | 0.0476 | 0.0045 | | |
| Cl | 0.2619 | 0.0503 | | |
| NO2 | 0.0117 | 0.0003 | | |
| Br | 0.0060 | 0.0043 | | |
| NO3 | 0.0135 | 0.0085 | | |
| PO4 | 0.0210 | 0.0048 | | |
| SO4 | 0.2506 | 0.0215 | | |
| CATIONS | | | | |
| Na | 0.1071 | 0.0896 | | |
| NH4 | 0.1045 | 0.0412 | | |
| K | 0.0960 | 0.0689 | | |
| Ca | 1.7544 | 0.2266 | | |
| Mg | 0.0490 | 0.0352 | | |
| Organic Carbon | | | | |
| OC1 | 34.3086 | 1.4844 | | |
| OC2 | 9.0610 | 0.3920 | | |
| OC3 | 4.3943 | 0.1901 | | |
| OC4 | 0.8152 | 0.0353 | | |
| OP | 3.4800 | 0.1506 | | |
| Total OC | 52.0591 | 2.2524 | | |
| Elemental Carbon | | | | |
| EC1 | 1.3086 | 0.0566 | | |
| EC2 | 0.0686 | 0.0030 | | |
| EC3 | 0.0629 | 0.0027 | | |
| Total EC | 1.4400 | 0.0623 | | |
| Total Carbon | 53.4991 | 2.3147 | | |
| Identified percentage of total mass | | | | |
| | 58.8990 | | | |

| | |
|--------------------|---|
| Source Name | Solid Waste Open Burning-Commerical Area |
| Source Code | 18 |

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|--------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.2803 | 0.0280 | | |
| n-Tritriacontane | 0.3217 | 0.0322 | | |
| n- Pentatriacontane | 0.4232 | 0.0423 | | |
| Hexadecanamide | 0.3063 | 0.0306 | | |
| Octadecanamide | 0.1911 | 0.0191 | | |
| Benzo[b]fluoranthene | 0.0847 | 0.0085 | | |
| Benzo[k]fluoranthene | 0.0456 | 0.0046 | | |
| Benzo[e]pyrene | 0.0930 | 0.0093 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.1515 | 0.0152 | | |
| Indeno[1,2,3-cd]pyrene | 0.1268 | 0.0127 | | |
| Picene | 0.4547 | 0.0455 | | |
| Coronene | 0.3720 | 0.0372 | | |

| | | |
|--------------------|--|--|
| Source Name | Solid Waste Open Burning-Residential Area | |
| Source Code | 18 | |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0022 | 0.0043 | | |
| Al | 0.0065 | 0.0006 | | |
| As | 0.0057 | 0.0041 | | |
| Ba | 0.0247 | 0.0018 | | |
| Ca | 0.7558 | 0.0541 | | |
| Cd | 0.0016 | 0.0003 | | |
| Ce | 0.0139 | 0.0100 | | |
| Co | 0.0016 | 0.0011 | | |
| Cr | 0.0057 | 0.0007 | | |
| Cu | 0.0007 | 0.0005 | | |
| Fe | 0.9362 | 0.0668 | | |
| Ga | 0.0000 | 0.0071 | | |
| Hf | 0.0012 | 0.0028 | | |
| Hg | 0.0016 | 0.0011 | | |
| In | 0.1297 | 0.0162 | | |
| K | 0.0101 | 0.0352 | | |
| Lu | 0.0002 | 0.0001 | | |
| Mg | 0.0011 | 0.0008 | | |
| Mn | 0.0051 | 0.0005 | | |
| Mo | 0.0017 | 0.0012 | | |
| Na | 0.0636 | 0.0087 | | |
| Ni | 0.0037 | 0.0073 | | |
| P | 0.0085 | 0.0061 | | |
| Pb | 0.0463 | 0.0096 | | |
| Pd | 0.0005 | 0.0038 | | |
| Sb | 0.0021 | 0.0038 | | |
| Sc | 0.0001 | 0.0002 | | |
| Se | 0.0052 | 0.0037 | | |
| Si | 0.1892 | 0.0150 | | |
| Sm | 0.0064 | 0.0046 | | |
| Sn | 1.7518 | 0.1252 | | |
| Sr | 0.0008 | 0.0001 | | |
| Th | 0.0020 | 0.0014 | | |
| Ti | 0.0093 | 0.0009 | | |

| | | |
|--------------------|--|--|
| Source Name | Solid Waste Open Burning-Residential Area | |
| Source Code | 18 | |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0030 | 0.0021 | | |
| W | 0.0089 | 0.0064 | | |
| Y | 0.0004 | 0.0003 | | |
| Zn | 0.1518 | 0.0109 | | |
| Zr | 0.0005 | 0.0005 | | |
| ANIONS | | | | |
| F | 0.0723 | 0.0064 | | |
| Cl | 0.6023 | 0.0792 | | |
| NO2 | 0.0018 | 0.0001 | | |
| Br | 0.0073 | 0.0052 | | |
| NO3 | 0.0143 | 0.0103 | | |
| PO4 | 0.0037 | 0.0047 | | |
| SO4 | 0.3969 | 0.0326 | | |
| CATIONS | | | | |
| Na | 0.1535 | 0.1103 | | |
| NH4 | 0.2321 | 0.0562 | | |
| K | 0.1168 | 0.0839 | | |
| Ca | 2.0471 | 0.2701 | | |
| Mg | 0.0597 | 0.0429 | | |
| Organic Carbon | | | | |
| OC1 | 37.7432 | 1.8872 | | |
| OC2 | 16.6789 | 0.8339 | | |
| OC3 | 5.3577 | 0.2679 | | |
| OC4 | 0.8261 | 0.0413 | | |
| OP | 2.8228 | 0.1411 | | |
| Total OC | 63.4287 | 3.1714 | | |
| Elemental Carbon | | | | |
| EC1 | 3.5765 | 0.1788 | | |
| EC2 | 0.0677 | 0.0034 | | |
| EC3 | 0.1762 | 0.0088 | | |
| Total EC | 3.8204 | 0.1910 | | |
| Total Carbon | 67.2491 | 3.3625 | | |

| | | | | |
|--|---------|--|--|--|
| Identified percentage of total mass | 75.1161 | | | |
|--|---------|--|--|--|

| | | |
|--------------------|--|--|
| Source Name | Solid Waste Open Burning-Residential Area | |
| Source Code | 18 | |

Profile for **PM10**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |

| Molecular Markers | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.2803 | 0.0005 | | |
| n-Tritriacontane | 0.3217 | 0.0005 | | |
| n- Pentatriacontane | 0.4232 | 0.0005 | | |
| Hexadecanamide | 0.3063 | 0.0005 | | |
| Octadecanamide | 0.1911 | 0.0005 | | |
| Benzo[b]fluoranthene | 0.0847 | 0.0005 | | |
| Benzo[k]fluoranthene | 0.0456 | 0.0005 | | |
| Benzo[e]pyrene | 0.0930 | 0.0005 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.1515 | 0.0005 | | |
| Indeno[1,2,3-cd]pyrene | 0.1268 | 0.0005 | | |
| Picene | 0.4547 | 0.0005 | | |
| Coronene | 0.3720 | 0.0005 | | |

| | |
|--------------------|----------------------------|
| Source Name | Steel Rolling Mills |
| Source Code | 6001 |

Profile PM10
Location Chennai
Control Not Used

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0013 | 0.0009 | 0.0014 | 0.0010 |
| Al | 0.2547 | 0.0180 | 0.0700 | 0.0050 |
| As | 0.0154 | 0.0017 | 0.0047 | 0.0011 |
| Ba | 0.2466 | 0.0175 | 0.1748 | 0.0124 |
| Ca | 4.9808 | 0.3523 | 4.6317 | 0.3277 |
| Cd | 0.0111 | 0.0008 | 0.0029 | 0.0002 |
| Ce | 0.0324 | 0.0039 | 0.0024 | 0.0022 |
| Co | 0.0109 | 0.0009 | 0.0004 | 0.0003 |
| Cr | 0.0122 | 0.0009 | 0.0003 | 0.0001 |
| Cu | 0.0610 | 0.0044 | 0.0094 | 0.0007 |
| Fe | 17.3209 | 1.2249 | 4.2400 | 0.3000 |
| Ga | 0.0112 | 0.0021 | 0.0016 | 0.0016 |
| Hf | 0.0008 | 0.0006 | 0.0009 | 0.0007 |
| Hg | 0.0490 | 0.0036 | 0.0120 | 0.0010 |
| In | 3.2550 | 0.2314 | 1.2300 | 0.0883 |
| K | 3.3165 | 0.2396 | 0.5931 | 0.0477 |
| Lu | 0.0005 | 0.0001 | 0.0000 | 0.0000 |
| Mg | 6.8823 | 0.4868 | 1.3036 | 0.0923 |
| Mn | 0.2468 | 0.0175 | 0.0675 | 0.0048 |
| Mo | 0.0003 | 0.0002 | 0.0004 | 0.0003 |
| Na | 6.8636 | 0.4860 | 1.6126 | 0.1148 |
| Ni | 0.0465 | 0.0045 | 0.0079 | 0.0020 |
| P | 0.1913 | 0.0144 | 0.0973 | 0.0078 |
| Pb | 2.1272 | 0.1514 | 2.6710 | 0.1900 |
| Pd | 0.0042 | 0.0010 | 0.0012 | 0.0009 |
| Sb | 0.0011 | 0.0008 | 0.0012 | 0.0009 |
| Sc | 0.0041 | 0.0003 | 0.0011 | 0.0001 |
| Se | 0.0010 | 0.0007 | 0.0011 | 0.0008 |
| Si | 0.1033 | 0.0076 | 0.1004 | 0.0075 |
| Sm | 0.0013 | 0.0009 | 0.0014 | 0.0010 |
| Sn | 0.0006 | 0.0004 | 0.0006 | 0.0005 |
| Sr | 0.3080 | 0.0218 | 0.0579 | 0.0041 |
| Th | 0.0004 | 0.0003 | 0.0017 | 0.0004 |
| Ti | 3.2861 | 0.2324 | 1.0987 | 0.0777 |
| V | 0.0178 | 0.0016 | 0.0080 | 0.0009 |

| | |
|--------------------|----------------------------|
| Source Name | Steel Rolling Mills |
| Source Code | 6001 |

Profile PM10
Location Chennai
Control Not Used

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| W | 0.0275 | 0.0030 | 0.0020 | 0.0014 |
| Y | 0.0062 | 0.0005 | 0.0015 | 0.0002 |
| Zn | 2.2593 | 0.1598 | 0.9426 | 0.0667 |
| Zr | 0.0063 | 0.0005 | 0.0035 | 0.0003 |
| ANIONS | | | | |
| F | 0.0193 | 0.0012 | 0.0164 | 0.0014 |
| Cl | 0.1597 | 0.0145 | 0.7575 | 0.0591 |
| NO2 | 0.0112 | 0.0002 | 0.0025 | 0.0002 |
| Br | 0.0031 | 0.0009 | 0.0236 | 0.0024 |
| NO3 | 0.3204 | 0.0305 | 0.3287 | 0.0244 |
| PO4 | 0.0012 | 0.0007 | 0.0012 | 0.0008 |
| SO4 | 12.1661 | 0.7781 | 3.4775 | 0.2466 |
| CATIONS | | | | |
| Na | 0.8267 | 0.0452 | 0.2934 | 0.0357 |
| NH4 | 0.0989 | 0.0105 | 0.1644 | 0.0178 |
| K | 0.0908 | 0.0140 | 0.0628 | 0.0170 |
| Ca | 2.5623 | 0.1657 | 1.1199 | 0.0991 |
| Mg | 0.3149 | 0.0096 | 0.1708 | 0.0177 |
| Organic Carbon | | | | |
| OC1 | 0.0058 | 0.0003 | 0.0561 | 0.0028 |
| OC2 | 0.1400 | 0.0070 | 0.6432 | 0.0322 |
| OC3 | 0.3815 | 0.0191 | 0.9095 | 0.0455 |
| OC4 | 0.4864 | 0.0243 | 0.6743 | 0.0337 |
| OP | 1.3751 | 0.0688 | 17.7682 | 0.8884 |
| Total OC | 2.3887 | 0.1194 | 20.0513 | 1.0026 |
| Elemental Carbon | | | | |
| EC1 | 2.1258 | 0.1063 | 9.1439 | 0.4572 |
| EC2 | 0.1739 | 0.0087 | 0.2662 | 0.0133 |
| EC3 | 0.0634 | 0.0032 | 0.1525 | 0.0076 |
| Total EC | 2.3630 | 0.1182 | 9.5626 | 0.4781 |
| Total Carbon | 4.7518 | 0.2376 | 29.6139 | 1.4807 |
| Identified percentage of total mass | | | | |
| | 73.2921 | | 54.9915 | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0052 | 0.0005 | | |

| | |
|--------------------|----------------------------|
| Source Name | Steel Rolling Mills |
| Source Code | 6001 |

Profile PM10
Location Chennai
Control Not Used

| Species | PMx | Uncertainty | PMx | Uncertainty |
|------------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| n-Tritriacontane | 0.0019 | 0.0002 | | |
| n- Pentatriacontane | 0.0019 | 0.0002 | | |
| Hexadecanamide | 0.0019 | 0.0002 | | |
| Octadecanamide | 0.0019 | 0.0002 | | |
| Benzo[b]fluoranthene | 0.0106 | 0.0011 | | |
| Benzo[k]fluoranthene | 0.0089 | 0.0009 | | |
| Benzo[e]pyrene | 0.0099 | 0.0010 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0168 | 0.0017 | | |
| Indeno[1,2,3-cd]pyrene | 0.0161 | 0.0016 | | |
| Picene | 0.0019 | 0.0002 | | |
| Coronene | 0.0019 | 0.0002 | | |

| | |
|--------------------|--------------------|
| Source Name | Tar Melting |
| Source Code | 6006 |

Profile for PM10 and PM2.5
Location Laboratory
Controls Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0009 | 0.0013 | | |
| Al | 0.0015 | 0.0001 | | |
| As | 0.0017 | 0.0012 | | |
| Ba | 0.0069 | 0.0005 | | |
| Ca | 0.3801 | 0.0271 | | |
| Cd | 0.0008 | 0.0001 | | |
| Ce | 0.0041 | 0.0029 | | |
| Co | 0.0005 | 0.0003 | | |
| Cr | 0.0012 | 0.0002 | | |
| Cu | 0.0002 | 0.0001 | | |
| Fe | 0.2193 | 0.0157 | | |
| Ga | 0.0005 | 0.0021 | | |
| Hf | 0.0012 | 0.0009 | | |
| Hg | 0.0005 | 0.0003 | | |
| In | 0.0263 | 0.0040 | | |
| K | 0.0294 | 0.0117 | | |
| Lu | 0.0000 | 0.0000 | | |
| Mg | 0.0091 | 0.0008 | | |
| Mn | 0.0010 | 0.0001 | | |
| Mo | 0.0005 | 0.0004 | | |
| Na | 0.0574 | 0.0052 | | |
| Ni | 0.0006 | 0.0021 | | |
| P | 0.0218 | 0.0030 | | |
| Pb | 0.0098 | 0.0026 | | |
| Pd | 0.0016 | 0.0012 | | |
| Sb | 0.0054 | 0.0014 | | |
| Sc | 0.0000 | 0.0001 | | |
| Se | 0.0023 | 0.0011 | | |
| Si | 0.0248 | 0.0023 | | |
| Sm | 0.0019 | 0.0013 | | |
| Sn | 0.5009 | 0.0358 | | |
| Sr | 0.0008 | 0.0001 | | |
| Th | 0.0006 | 0.0004 | | |
| Ti | 0.0013 | 0.0002 | | |

| | |
|--------------------|--------------------|
| Source Name | Tar Melting |
| Source Code | 6006 |

Profile for **PM10 and PM2.5**
Location **Laboratory**
Controls **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| V | 0.0009 | 0.0006 | | |
| W | 0.0026 | 0.0019 | | |
| Y | 0.0001 | 0.0001 | | |
| Zn | 0.0521 | 0.0037 | | |
| Zr | 0.0002 | 0.0001 | | |
| ANIONS | | | | |
| F | 0.0062 | 0.0007 | | |
| Cl | 0.0136 | 0.0097 | | |
| NO2 | 0.0030 | 0.0001 | | |
| Br | 0.0015 | 0.0011 | | |
| NO3 | 0.0030 | 0.0021 | | |
| PO4 | 0.0035 | 0.0011 | | |
| SO4 | 0.0803 | 0.0066 | | |
| CATIONS | | | | |
| Na | 0.0018 | 0.0215 | | |
| NH4 | 0.0136 | 0.0098 | | |
| K | 0.0221 | 0.0174 | | |
| Ca | 0.4663 | 0.0590 | | |
| Mg | 0.0754 | 0.0127 | | |
| Organic Carbon | | | | |
| OC1 | 34.2111 | 1.6584 | | |
| OC2 | 14.9674 | 0.7256 | | |
| OC3 | 3.6885 | 0.1788 | | |
| OC4 | 0.1483 | 0.0072 | | |
| OP | 2.4157 | 0.1171 | | |
| Total OC | 55.4309 | 2.6871 | | |
| Elemental Carbon | | | | |
| EC1 | 4.3057 | 0.2087 | | |
| EC2 | 0.0249 | 0.0012 | | |
| EC3 | 0.0202 | 0.0010 | | |
| Total EC | 4.3508 | 0.2109 | | |
| Total Carbon | 59.7817 | 2.8980 | | |
| Identified percentage of total mass | | | | |
| | 61.8429 | | | |

| | |
|--------------------|--------------------|
| Source Name | Tar Melting |
| Source Code | 6006 |

Profile for **PM10 and PM2.5**
Location **Laboratory**
Controls **Not Applicable**

| Species | PM_x | Uncertainty | PM_x | Uncertainty |
|----------------------------|-----------------------|--------------------|-----------------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| | | | | |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0064 | 0.0006 | | |
| n-Tritriacontane | 0.0064 | 0.0006 | | |
| n- Pentatriacontane | 0.0064 | 0.0006 | | |
| Hexadecanamide | 0.0064 | 0.0006 | | |
| Octadecanamide | 0.2003 | 0.0200 | | |
| Benzo[b]fluoranthene | 0.0064 | 0.0006 | | |
| Benzo[k]fluoranthene | 0.0064 | 0.0006 | | |
| Benzo[e]pyrene | 0.0064 | 0.0006 | | |
| deno[1,2,3-cd]fluoranthene | 0.0064 | 0.0006 | | |
| Indeno[1,2,3-cd]pyrene | 0.0064 | 0.0006 | | |
| Picene | 0.3352 | 0.0335 | | |
| Coronene | 0.0064 | 0.0006 | | |

| | | |
|--------------------|---|--|
| Source Name | UnPaved Road Dust- Bangalore (Composite) | |
| Source Code | 53 | |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0066 | 0.0065 | | |
| Al | 0.0379 | 0.0056 | | |
| As | 0.0214 | 0.0069 | | |
| Ba | 0.0261 | 0.0028 | | |
| Ca | 1.1848 | 0.2472 | | |
| Cd | 0.0026 | 0.0004 | | |
| Ce | 0.0198 | 0.0142 | | |
| Co | 0.0022 | 0.0016 | | |
| Cr | 0.0027 | 0.0012 | | |
| Cu | 0.0071 | 0.0018 | | |
| Fe | 2.7162 | 0.3531 | | |
| Ga | 0.0151 | 0.0108 | | |
| Hf | 0.0058 | 0.0042 | | |
| Hg | 0.0020 | 0.0019 | | |
| In | 0.0646 | 0.0129 | | |
| K | 0.2068 | 0.0820 | | |
| Lu | 0.0002 | 0.0002 | | |
| Mg | 0.2291 | 0.0485 | | |
| Mn | 0.0356 | 0.0055 | | |
| Mo | 0.0024 | 0.0017 | | |
| Na | 0.0726 | 0.0199 | | |
| Ni | 0.0086 | 0.0107 | | |
| P | 0.0121 | 0.0087 | | |
| Pb | 0.0280 | 0.0111 | | |
| Pd | 0.0049 | 0.0055 | | |
| Sb | 0.0147 | 0.0058 | | |
| Sc | 0.0003 | 0.0003 | | |
| Se | 0.0102 | 0.0055 | | |
| Si | 0.0910 | 0.0139 | | |
| Sm | 0.0091 | 0.0066 | | |
| Sn | 0.7288 | 0.0054 | | |

| | | |
|--------------------|---|--|
| Source Name | UnPaved Road Dust- Bangalore (Composite) | |
| Source Code | 53 | |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sr | 0.0031 | 0.0006 | | |
| Th | 0.0160 | 0.0027 | | |
| Ti | 0.0606 | 0.0080 | | |
| V | 0.0042 | 0.0030 | | |
| W | 0.0127 | 0.0091 | | |
| Y | 0.0012 | 0.0004 | | |
| Zn | 0.0868 | 0.0027 | | |
| Zr | 0.0060 | 0.0011 | | |
| ANIONS | | | | |
| F | 0.0434 | 0.0043 | | |
| Cl | 0.3881 | 0.0618 | | |
| NO2 | 0.0192 | 0.0014 | | |
| Br | 0.0074 | 0.0047 | | |
| NO3 | 0.1793 | 0.0201 | | |
| PO4 | 0.0059 | 0.0042 | | |
| SO4 | 0.4101 | 0.0331 | | |
| CATIONS | | | | |
| Na | 0.1333 | 0.0966 | | |
| NH4 | 0.0853 | 0.0426 | | |
| K | 0.2417 | 0.0816 | | |
| Ca | 2.1229 | 0.2585 | | |
| Mg | 0.1173 | 0.0414 | | |
| Organic Carbon | | | | |
| OC1 | 0.1537 | 0.0077 | | |
| OC2 | 0.4384 | 0.0219 | | |
| OC3 | 1.2352 | 0.0618 | | |
| OC4 | 0.7751 | 0.0388 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 2.6024 | 0.1301 | | |
| Elemental Carbon | | | | |
| EC1 | 0.7047 | 0.0352 | | |
| EC2 | 0.2535 | 0.0127 | | |

| | | |
|--------------------|---|--|
| Source Name | UnPaved Road Dust- Bangalore (Composite) | |
| Source Code | 53 | |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC3 | 0.0202 | 0.0010 | | |
| Total EC | 0.9783 | 0.0489 | | |
| Total Carbon | 3.5808 | 0.1790 | | |

| | | | | |
|--|---------|--|--|--|
| Identified percentage of total mass | 13.0947 | | | |
|--|---------|--|--|--|

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0290 | 0.0029 | | |
| n- Tritriacontane | 0.0302 | 0.0030 | | |
| n- Pentatriacontane | 0.0010 | 0.0001 | | |
| Hexadecanamide | 0.0358 | 0.0036 | | |
| Octadecanamide | 0.0448 | 0.0045 | | |
| Benzo[b]fluoranthene | 0.0010 | 0.0001 | | |
| Benzo[k]fluoranthene | 0.0010 | 0.0001 | | |
| Benzo[e]pyrene | 0.0010 | 0.0001 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0010 | 0.0001 | | |
| Indeno[1,2,3-cd]pyrene | 0.0010 | 0.0001 | | |
| Picene | 0.0010 | 0.0001 | | |
| Coronene | 0.0010 | 0.0001 | | |

| | |
|--------------------|---------------------------------|
| Source Name | Unpaved Road Dust- Delhi |
| Source Code | 53 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0004 | 0.0006 | | |
| Al | 0.0670 | 0.0044 | | |
| As | 0.0007 | 0.0006 | | |
| Ba | 0.0396 | 0.0023 | | |
| Ca | 1.5716 | 0.1177 | | |
| Cd | 0.0012 | 0.0001 | | |
| Ce | 0.0025 | 0.0015 | | |
| Co | 0.0008 | 0.0002 | | |
| Cr | 0.0071 | 0.0005 | | |
| Cu | 0.0386 | 0.0021 | | |
| Fe | 4.7725 | 0.2893 | | |
| Ga | 0.0008 | 0.0011 | | |
| Hf | 0.0006 | 0.0004 | | |
| Hg | 0.0070 | 0.0005 | | |
| In | 0.0733 | 0.0053 | | |
| K | 1.1014 | 0.0601 | | |
| Lu | 0.0001 | 0.0000 | | |
| Mg | 1.1653 | 0.0740 | | |
| Mn | 0.0668 | 0.0044 | | |
| Mo | 0.0004 | 0.0002 | | |
| Na | 0.2149 | 0.0121 | | |
| Ni | 0.0055 | 0.0013 | | |
| P | 0.0170 | 0.0020 | | |
| Pb | 0.0194 | 0.0035 | | |
| Pd | 0.0089 | 0.0010 | | |
| Sb | 0.0014 | 0.0006 | | |
| Sc | 0.0006 | 0.0001 | | |
| Se | 0.0006 | 0.0005 | | |
| Si | 0.1118 | 0.0063 | | |
| Sm | 0.0009 | 0.0007 | | |

| | |
|--------------------|---------------------------------|
| Source Name | Unpaved Road Dust- Delhi |
| Source Code | 53 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-------------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sn | 0.2949 | 0.0201 | | |
| Sr | 0.0138 | 0.0008 | | |
| Th | 0.0006 | 0.0002 | | |
| Ti | 0.1254 | 0.0078 | | |
| V | 0.0016 | 0.0004 | | |
| W | 0.0037 | 0.0011 | | |
| Y | 0.0009 | 0.0001 | | |
| Zn | 0.0810 | 0.0048 | | |
| Zr | 0.0003 | 0.0001 | | |
| ANIONS | | | | |
| F | 0.3016 | 0.0216 | | |
| Cl | 0.2628 | 0.0253 | | |
| NO2 | 0.0028 | 0.0002 | | |
| Br | 0.0140 | 0.0018 | | |
| NO3 | 0.0028 | 0.0020 | | |
| PO4 | 0.0013 | 0.0009 | | |
| SO4 | 0.6315 | 0.0455 | | |
| CATIONS | | | | |
| Na | 0.2077 | 0.0322 | | |
| NH4 | 0.0436 | 0.0109 | | |
| K | 0.1197 | 0.0221 | | |
| Ca | 1.0617 | 0.0977 | | |
| Mg | 0.1470 | 0.0169 | | |
| Organic Carbon | | | | |
| OC1 | 0.0242 | 0.0012 | | |
| OC2 | 0.2890 | 0.0144 | | |
| OC3 | 0.9751 | 0.0488 | | |
| OC4 | 1.1421 | 0.0571 | | |
| OP | 0.0000 | 0.0000 | | |
| Total OC | 2.4304 | 0.1215 | | |
| Elemental Carbon | | | | |

| | |
|--------------------|---------------------------------|
| Source Name | Unpaved Road Dust- Delhi |
| Source Code | 53 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| EC1 | 0.6128 | 0.0306 | | |
| EC2 | 0.1405 | 0.0070 | | |
| EC3 | 0.0349 | 0.0017 | | |
| Total EC | 0.7882 | 0.0394 | | |
| Total Carbon | 3.2186 | 0.1609 | | |

| | | | | |
|--|---------|--|--|--|
| Identified percentage of total mass | 15.8365 | | | |
|--|---------|--|--|--|

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0059 | 0.0006 | | |
| n-Tritriacontane | 0.0059 | 0.0006 | | |
| n- Pentatriacontane | 0.0059 | 0.0006 | | |
| Hexadecanamide | 0.0059 | 0.0006 | | |
| Octadecanamide | 0.0059 | 0.0006 | | |
| Benzo[b]fluoranthene | 0.0059 | 0.0006 | | |
| Benzo[k]fluoranthene | 0.0059 | 0.0006 | | |
| Benzo[e]pyrene | 0.0367 | 0.0037 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0059 | 0.0006 | | |
| Indeno[1,2,3-cd]pyrene | 0.0059 | 0.0006 | | |
| Picene | 0.0059 | 0.0006 | | |
| Coronene | 0.0059 | 0.0006 | | |

| | |
|--------------------|--|
| Source Name | Unpaved Road Dust- Kanpur (Composite) |
| Source Code | 53 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0009 | 0.0008 | | |
| Al | 0.0435 | 0.0027 | | |
| As | 0.0005 | 0.0007 | | |
| Ba | 0.0238 | 0.0015 | | |
| Ca | 0.3331 | 0.0240 | | |
| Cd | 0.0011 | 0.0001 | | |
| Ce | 0.0036 | 0.0018 | | |
| Co | 0.0002 | 0.0002 | | |
| Cr | 0.0049 | 0.0003 | | |
| Cu | 0.0040 | 0.0004 | | |
| Fe | 2.4616 | 0.1456 | | |
| Ga | 0.0017 | 0.0013 | | |
| Hf | 0.0004 | 0.0005 | | |
| Hg | 0.0044 | 0.0004 | | |
| In | 0.0326 | 0.0033 | | |
| K | 0.6044 | 0.0411 | | |
| Lu | 0.0000 | 0.0000 | | |
| Mg | 0.8061 | 0.0484 | | |
| Mn | 0.0413 | 0.0026 | | |
| Mo | 0.0003 | 0.0002 | | |
| Na | 0.2424 | 0.0145 | | |
| Ni | 0.0014 | 0.0013 | | |
| P | 0.0690 | 0.0049 | | |
| Pb | 0.0209 | 0.0019 | | |
| Pd | 0.0048 | 0.0009 | | |
| Sb | 0.0019 | 0.0007 | | |
| Sc | 0.0005 | 0.0001 | | |
| Se | 0.0010 | 0.0006 | | |
| Si | 0.0415 | 0.0032 | | |

| | |
|--------------------|--|
| Source Name | Unpaved Road Dust- Kanpur (Composite) |
| Source Code | 53 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Sm | 0.0011 | 0.0008 | | |
| Sn | 0.2690 | 0.0186 | | |
| Sr | 0.0145 | 0.0009 | | |
| Th | 0.0013 | 0.0003 | | |
| Ti | 0.0782 | 0.0045 | | |
| V | 0.0005 | 0.0004 | | |
| W | 0.0016 | 0.0011 | | |
| Y | 0.0011 | 0.0001 | | |
| Zn | 0.0430 | 0.0028 | | |
| Zr | 0.0003 | 0.0001 | | |
| ANIONS | | | | |
| F | 0.3226 | 0.0231 | | |
| Cl | 0.1926 | 0.0208 | | |
| NO2 | 0.0029 | 0.0002 | | |
| Br | 0.0107 | 0.0016 | | |
| NO3 | 0.0029 | 0.0021 | | |
| PO4 | 0.0022 | 0.0010 | | |
| SO4 | 1.2634 | 0.0902 | | |
| CATIONS | | | | |
| Na | 0.2695 | 0.0369 | | |
| NH4 | 0.0107 | 0.0094 | | |
| K | 0.1054 | 0.0220 | | |
| Ca | 1.1847 | 0.1072 | | |
| Mg | 0.0988 | 0.0140 | | |
| Organic Carbon | | | | |
| OC1 | 0.0524 | 0.0026 | | |
| OC2 | 0.3059 | 0.0153 | | |
| OC3 | 1.2852 | 0.0643 | | |
| OC4 | 1.7572 | 0.0879 | | |
| OP | 0.0000 | 0.0000 | | |

| | |
|--------------------|--|
| Source Name | Unpaved Road Dust- Kanpur (Composite) |
| Source Code | 53 |

Profile **PM10**
Location **Laboratory**
Control **Not Applicable**

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Total OC | 3.4006 | 0.1700 | | |
| Elemental Carbon | | | | |
| EC1 | 0.5844 | 0.0292 | | |
| EC2 | 0.1564 | 0.0078 | | |
| EC3 | 0.0332 | 0.0017 | | |
| Total EC | 0.7739 | 0.0387 | | |
| Total Carbon | 4.1745 | 0.2087 | | |
| | | | | |
| Identified percentage of total mass | 12.8030 | | | |

| Molecular Marker | | | | |
|------------------------------|--------|--------|--|--|
| n- Hentriacontane | 0.0018 | 0.0002 | | |
| n-Tritriacontane | 0.0018 | 0.0002 | | |
| n- Pentatriacontane | 0.0018 | 0.0002 | | |
| Hexadecanamide | 0.0018 | 0.0002 | | |
| Octadecanamide | 0.0018 | 0.0002 | | |
| Benzo[b]fluoranthene | 0.0018 | 0.0002 | | |
| Benzo[k]fluoranthene | 0.0018 | 0.0002 | | |
| Benzo[e]pyrene | 0.0018 | 0.0002 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0018 | 0.0002 | | |
| Indeno[1,2,3-cd]pyrene | 0.0018 | 0.0002 | | |
| Picene | 0.0018 | 0.0002 | | |
| Coronene | 0.0018 | 0.0002 | | |

| | |
|--------------------|--------------------------------------|
| Source Name | UnPaved Road-Pune (Composite) |
| Source Code | 53 |

Profile PM10 and PM2.5

Location Laboratory

Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0023 | 0.0028 | 0.0057 | 0.0049 |
| Al | 0.1275 | 0.0091 | 0.1215 | 0.0087 |
| As | 0.0085 | 0.0029 | 0.0070 | 0.0046 |
| Ba | 0.0191 | 0.0014 | 0.0199 | 0.0015 |
| Ca | 5.0712 | 0.3590 | 6.0381 | 0.4277 |
| Cd | 0.0015 | 0.0003 | 0.0017 | 0.0004 |
| Ce | 0.0064 | 0.0061 | 0.0063 | 0.0105 |
| Co | 0.0011 | 0.0007 | 0.0017 | 0.0012 |
| Cr | 0.0144 | 0.0012 | 0.0084 | 0.0009 |
| Cu | 0.0222 | 0.0018 | 0.0174 | 0.0016 |
| Fe | 7.2180 | 0.5108 | 6.7152 | 0.4755 |
| Ga | 0.0011 | 0.0045 | 0.0086 | 0.0082 |
| Hf | 0.0015 | 0.0018 | 0.0044 | 0.0032 |
| Hg | 0.0213 | 0.0020 | 0.0143 | 0.0020 |
| In | 0.0140 | 0.0060 | 0.0137 | 0.0099 |
| K | 0.2742 | 0.0381 | 0.2605 | 0.0528 |
| Lu | 0.0001 | 0.0001 | 0.0002 | 0.0001 |
| Mg | 1.9001 | 0.1347 | 1.7909 | 0.1272 |
| Mn | 0.1245 | 0.0089 | 0.1164 | 0.0083 |
| Mo | 0.0017 | 0.0008 | 0.0033 | 0.0014 |
| Na | 0.2939 | 0.0231 | 0.2910 | 0.0247 |
| Ni | 0.0233 | 0.0058 | 0.0209 | 0.0089 |
| P | 0.0361 | 0.0057 | 0.0448 | 0.0088 |
| Pb | 0.0091 | 0.0048 | 0.0097 | 0.0081 |
| Pd | 0.0079 | 0.0028 | 0.0065 | 0.0044 |
| Sb | 0.0051 | 0.0026 | 0.0129 | 0.0048 |
| Sc | 0.0016 | 0.0002 | 0.0014 | 0.0003 |
| Se | 0.0080 | 0.0026 | 0.0165 | 0.0047 |

| | |
|--------------------|--------------------------------------|
| Source Name | UnPaved Road-Pune (Composite) |
| Source Code | 53 |

Profile PM10 and PM2.5

Location Laboratory

Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|-----------------------|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Si | 0.0497 | 0.0047 | 0.0319 | 0.0044 |
| Sm | 0.0040 | 0.0029 | 0.0070 | 0.0051 |
| Sn | 0.0264 | 0.0029 | 0.0279 | 0.0037 |
| Sr | 0.0158 | 0.0011 | 0.0154 | 0.0011 |
| Th | 0.0064 | 0.0012 | 0.0064 | 0.0018 |
| Ti | 0.2482 | 0.0177 | 0.2057 | 0.0147 |
| V | 0.0044 | 0.0015 | 0.0178 | 0.0032 |
| W | 0.0046 | 0.0040 | 0.0098 | 0.0070 |
| Y | 0.0018 | 0.0003 | 0.0013 | 0.0004 |
| Zn | 0.0165 | 0.0013 | 0.0094 | 0.0008 |
| Zr | 0.0063 | 0.0007 | 0.0057 | 0.0008 |
| ANIONS | | | | |
| F | 0.3564 | 0.0260 | 0.0595 | 0.0062 |
| Cl | 0.0500 | 0.0315 | 0.0873 | 0.0627 |
| NO2 | 0.0096 | 0.0007 | 0.0193 | 0.0014 |
| Br | 0.0049 | 0.0035 | 0.0098 | 0.0071 |
| NO3 | 0.0096 | 0.0069 | 0.0193 | 0.0138 |
| PO4 | 0.0045 | 0.0032 | 0.0091 | 0.0065 |
| SO4 | 0.1464 | 0.0137 | 0.2592 | 0.0247 |
| CATIONS | | | | |
| Na | 0.0869 | 0.0730 | 0.0913 | 0.1426 |
| NH4 | 0.0435 | 0.0313 | 0.0876 | 0.0630 |
| K | 0.0782 | 0.0562 | 0.1574 | 0.1131 |
| Ca | 2.3792 | 0.2483 | 2.8739 | 0.3715 |
| Mg | 0.0473 | 0.0291 | 0.1158 | 0.0597 |
| Organic Carbon | | | | |
| OC1 | 0.0284 | 0.0014 | 0.0802 | 0.0040 |
| OC2 | 0.3228 | 0.0161 | 0.4457 | 0.0223 |
| OC3 | 1.1212 | 0.0561 | 1.3213 | 0.0661 |

| | |
|--------------------|--------------------------------------|
| Source Name | UnPaved Road-Pune (Composite) |
| Source Code | 53 |

Profile PM10 and PM2.5

Location Laboratory

Control Not Applicable

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|---------------|--------------------|----------------|--------------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| OC4 | 1.7477 | 0.0874 | 1.7961 | 0.0898 |
| OP | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total OC | 3.2202 | 0.1610 | 3.6433 | 0.1822 |
| Elemental Carbon | | | | |
| EC1 | 0.7694 | 0.0385 | 0.7229 | 0.0361 |
| EC2 | 0.5257 | 0.0263 | 0.5925 | 0.0296 |
| EC3 | 0.1497 | 0.0075 | 0.1161 | 0.0058 |
| Total EC | 1.4448 | 0.0722 | 1.4315 | 0.0716 |
| Total Carbon | 4.6649 | 0.2332 | 5.0748 | 0.2537 |
| | | | | |
| Identified percentage of total mass | 23.4814 | | 24.7614 | |
| | | | | |
| Molecular Marker | | | | |
| n- Hentriacontane | 0.0037 | 0.0004 | | |
| n-Tritriacontane | 0.0037 | 0.0004 | | |
| n- Pentatriacontane | 0.0037 | 0.0004 | | |
| Hexadecanamide | 0.0037 | 0.0004 | | |
| Octadecanamide | 0.0037 | 0.0004 | | |
| Benzo[b]fluoranthene | 0.0092 | 0.0009 | | |
| Benzo[k]fluoranthene | 0.0037 | 0.0004 | | |
| Benzo[e]pyrene | 0.0194 | 0.0019 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0037 | 0.0004 | | |
| Indeno[1,2,3-cd]pyrene | 0.0037 | 0.0004 | | |
| Picene | 0.0037 | 0.0004 | | |
| Coronene | 0.0037 | 0.0004 | | |

| | |
|-------------|---|
| Source Name | Wood Residue Combustion in Boilers/Bakeries |
| Source Code | 11 |

Profile PM10 and PM2.5
Location Bangalore
Control Diffusion Battery

| Species | PMx | Uncertainty | PMx | Uncertainty |
|----------|---------|-------------|---------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Elements | | | | |
| Ag | 0.0123 | 0.0080 | 0.0105 | 0.0098 |
| Al | 0.0209 | 0.0017 | 0.0173 | 0.0016 |
| As | 0.0101 | 0.0072 | 0.0123 | 0.0090 |
| Ba | 0.0263 | 0.0020 | 0.0300 | 0.0023 |
| Ca | 3.1176 | 0.2216 | 3.4099 | 0.2425 |
| Cd | 0.0006 | 0.0005 | 0.0169 | 0.0017 |
| Ce | 0.0283 | 0.0178 | 0.0263 | 0.0216 |
| Co | 0.0027 | 0.0020 | 0.0034 | 0.0024 |
| Cr | 0.0041 | 0.0009 | 0.0120 | 0.0016 |
| Cu | 0.0558 | 0.0045 | 0.0435 | 0.0038 |
| Fe | 0.0176 | 0.0027 | 0.2136 | 0.0168 |
| Ga | 0.0161 | 0.0132 | 0.0079 | 0.0158 |
| Hf | 0.0189 | 0.0058 | 0.0179 | 0.0070 |
| Hg | 0.0027 | 0.0020 | 0.0034 | 0.0024 |
| In | 0.0517 | 0.0175 | 0.0754 | 0.0225 |
| K | 27.5540 | 1.9920 | 39.9724 | 2.8808 |
| Lu | 0.0003 | 0.0002 | 0.0008 | 0.0003 |
| Mg | 1.3332 | 0.0952 | 1.4795 | 0.1057 |
| Mn | 0.0177 | 0.0015 | 0.0173 | 0.0015 |
| Mo | 0.0168 | 0.0030 | 0.0241 | 0.0039 |
| Na | 4.4281 | 0.3193 | 4.3809 | 0.3175 |
| Ni | 0.0063 | 0.0128 | 0.0084 | 0.0160 |
| P | 0.1995 | 0.0234 | 0.1839 | 0.0239 |
| Pb | 0.1516 | 0.0217 | 0.3668 | 0.0393 |
| Pd | 0.0124 | 0.0072 | 0.0072 | 0.0085 |
| Sb | 0.0172 | 0.0075 | 0.0154 | 0.0090 |
| Sc | 0.0005 | 0.0003 | 0.0006 | 0.0004 |
| Se | 0.0610 | 0.0096 | 0.0730 | 0.0118 |
| Si | 0.0890 | 0.0097 | 0.1570 | 0.0153 |
| Sm | 0.0113 | 0.0081 | 0.0140 | 0.0101 |
| Sn | 0.2166 | 0.0178 | 0.2492 | 0.0207 |
| Sr | 0.0665 | 0.0048 | 0.0607 | 0.0043 |
| Th | 0.0047 | 0.0026 | 0.0155 | 0.0038 |
| Ti | 0.0026 | 0.0006 | 0.0184 | 0.0018 |
| V | 0.0394 | 0.0059 | 0.0499 | 0.0073 |
| W | 0.0337 | 0.0123 | 0.0337 | 0.0148 |
| Y | 0.0007 | 0.0005 | 0.0005 | 0.0006 |

| | |
|-------------|---|
| Source Name | Wood Residue Combustion in Boilers/Bakeries |
| Source Code | 11 |

Profile PM10 and PM2.5
Location Bangalore
Control Diffusion Battery

| Species | PMx | Uncertainty | PMx | Uncertainty |
|--|----------|-------------|----------|-------------|
| | x=10µm | ± (%) | x=2.5µm | ± (%) |
| Zn | 0.0781 | 0.0058 | 0.1116 | 0.0082 |
| Zr | 0.0025 | 0.0009 | 0.0025 | 0.0011 |
| ANIONS | | | | |
| F | 0.0309 | 0.0044 | 0.1076 | 0.0104 |
| Cl | 14.6499 | 1.0819 | 14.8362 | 1.1082 |
| NO2 | 1.1806 | 0.0835 | 0.3788 | 0.0268 |
| Br | 0.0334 | 0.0090 | 0.0330 | 0.0109 |
| NO3 | 0.1683 | 0.0246 | 0.2940 | 0.0375 |
| PO4 | 0.0099 | 0.0071 | 0.0126 | 0.0091 |
| SO4 | 10.6344 | 0.7583 | 11.7600 | 0.8396 |
| CATIONS | | | | |
| Na | 4.8510 | 0.4623 | 5.3010 | 0.5285 |
| NH4 | 0.0958 | 0.0688 | 0.1220 | 0.0877 |
| K | 22.8274 | 1.6973 | 27.0551 | 2.0193 |
| Ca | 1.8006 | 0.3241 | 1.2130 | 0.3450 |
| Mg | 0.9056 | 0.1182 | 0.6226 | 0.1143 |
| Organic Carbon | | | | |
| OC1 | 0.2796 | 0.0140 | 0.5244 | 0.0262 |
| OC2 | 1.1358 | 0.0568 | 1.8703 | 0.0935 |
| OC3 | 2.2940 | 0.1147 | 3.1696 | 0.1585 |
| OC4 | 2.2516 | 0.1126 | 2.4117 | 0.1206 |
| OP | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total OC | 5.9610 | 0.2980 | 7.9760 | 0.3988 |
| Elemental Carbon | | | | |
| EC1 | 1.7839 | 0.0892 | 2.0932 | 0.1047 |
| EC2 | 0.2270 | 0.0114 | 1.3342 | 0.0667 |
| EC3 | 0.2191 | 0.0110 | 1.3507 | 0.0675 |
| Total EC | 2.2301 | 0.1115 | 5.5634 | 0.2782 |
| Total Carbon | 8.1910 | 0.4096 | 12.7540 | 0.6377 |
| Identified percentage of total mass | | | | |
| | 103.1080 | | 125.6341 | |
| Molecular Markers | | | | |
| n- Hentriacontane | 0.0098 | 0.0010 | | |
| n- Tritriacontane | 0.0098 | 0.0010 | | |
| n- Pentatriacontane | 0.0098 | 0.0010 | | |

| | |
|--------------------|--|
| Source Name | Wood Residue Combustion in Boilers/Bakeries |
| Source Code | 11 |

Profile PM10 and PM2.5
Location Bangalore
Control Diffusion Battery

| Species | PM_x | Uncertainty | PM_x | Uncertainty |
|------------------------------|------------------------------|-----------------------------|-------------------------------|-----------------------------|
| | x=10μm | \pm (%) | x=2.5μm | \pm (%) |
| Hexadecanamide | 0.0098 | 0.0010 | | |
| Octadecanamide | 0.2914 | 0.0291 | | |
| Benzo[b]fluoranthene | 0.0098 | 0.0010 | | |
| Benzo[k]fluoranthene | 0.0098 | 0.0010 | | |
| Benzo[e]pyrene | 0.0098 | 0.0010 | | |
| Indeno[1,2,3-cd]fluoranthene | 0.0098 | 0.0010 | | |
| Indeno[1,2,3-cd]pyrene | 0.0098 | 0.0010 | | |
| Picene | 0.0098 | 0.0010 | | |
| Coronene | 0.0098 | 0.0010 | | |