# Section K: Monitoring Data from Stack sampling

**To be filled by the Environmental Laboratory.**

*Instructions: Stack sampling to be done at one stack per industry. J-PAL Staff will identify the stack.*

| | | |
|---|---|---|
| K1.1a | **Industry ID** | GJS\|___\|___\|___\| |
| K1.1b | **Stack ID** | S\|_____\| |
| K1.2 | **Is there a sampling port at this location?** | 1. ☐ Yes →***complete Section 3.1***<br>2. ☐ No→***skip Section 3.1*** |
| K1.3 | **Sample number** | 1. ☐ One 2. ☐ Two |
| K1.4 | **Is complete sampling report attached?** | 1. ☐ Yes 2. ☐ No *(Specify Why?)* _____ |
| K1.5 | **Date of Sampling***(DD/MM/2014)* | \|__ __\| / \|__ __\|/ 2016 |
| K1.6 | **Time of Sampling** *(24-hour format)* | Start Time \|_____\|hrs\|_____\|mins<br>End Time \|_____\|hrs\|_____\|mins |
| K1.7 | **Shape of duct cross-section** | 1. ☐ Round<br>2. ☐ Rectangular →**Skip to K1.8b** |

| | | | **Unit of Measurement** | **Preferred Unit** |
|---|---|---|---|---|
| K1.8a | **Duct cross-section internal dimensions** *(round)* | Diameter: \|_____\| | | Meters |
| K1.8b | **Duct cross-section internal dimensions** *(rectangular)* | Length: \|_____\| | | Meters |
| | | Breadth: \|_____\| | | |
| K1.9 | **Location of Sampling Port** | Distance from nearest upstream bend: \|_____\| | | Meters |
| | | Distance from nearest downstream bend: \|_____\| | | |
| K1.10 | **Diameter of the port** | | | Meters |
| K1.11 | **Collar length at the port** | | | Meters |
| K1.12 | **Maximum operating load of Boiler** | | | KPa |
| K1.13 | **Operating load at the time of Sampling** | | | KPa |

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| | | | Unit of Measurement | Preferred Unit |
|---|---|---|---|---|
| K1.14 | **Maximum operating load of Thermopack** | | | $^{O}$ Celsius |
| K1.15 | **Operating load at the time of sampling** | | | $^{O}$ Celsius |
| K1.16 | **Average $CO_2$** | | | PPM |
| K1.17 | **Average $O_2$** | | | PPM |
| K1.18 | **Average $SO_X$** | | | PPM |
| K1.19 | **Average $NO_x$** | | | PPM |
| K1.20 | **Average CO concentration** | | | PPM |
| K1.21 | **Average Moisture content** | | | % |
| K1.22 | **Average Flue Gas Temperature** | | | $^{O}$ Celsius |
| K1.23 | **Gas Molecular Weight** | | | mg |
| K1.24 | **Static Pressure** | | | mmwc |
| K1.25 | **Average Velocity Measurement** | | | m/sec |
| K1.26 | **Thimble Weight before sampling** | | | mg |
| K1.27 | **Thimble weight after sampling** | | | mg |
| K1.28 | **Volume of gas collected** | | | $m^3$ |
| K1.29 | **Average PM Concentration** | | | mg/Nm3 |
| K1.30 | **Average Gas Flow** | | | Nm3/hr |
| K1.31 | **Isokineticity** | | | % |
| K1.32 | **Dust Loading** | | | kg/hr |
| K1.33 | **Ambient Air Temperature** | | | $^{O}$ Celsius |
| K1.34 | **Ambient Air Humidity** | | | |

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