| | Section A: Industry Information | |
|---|---|---|
| A1. | **Start Time | \|___\|___\|hrs\|___\|___\|mins |
| A2. | **Date (DD/MM/YYYY) | \|___\|___\|/\|___\|___\|/ 20\|___\|___\| |
| A3. | **Industry ID | GJS____\|___\|___\| |
| *Display Prefilled Industry Information* | | |
| | Industry Name | *industry_name* |
| | Industry Address | Industry_address |
| | Cluster | *cluster* |
| | GPCB ID | *gpcb_id* |
| A4. | Is this information correct? | □ Yes<br>□ No, Re-enter prefilled industry information |

| Section B: Survey Information | | | | |
|---|---|---|---|---|
| B1. | Surveyor Name | | Surveyor Code (calc field) | ___\|___\| |
| B2. | Supervisor name | | Supervisor Code (calc field) | ___\|___\| |
| B3. | Total number of respondents Present | [numeric field] | | |
| B4. | Industry respondents (Please enter the name and contact details of any industry employees that answered questions) | Name | Designation | Contact Number |
| | | | | |
| | | | | |
| B5. | Environmental Lab | Lab Name | □ S. K. Mitra<br>□ Bhagwati | |
| | | Lab Code | | |
| | | Representative Name | | |
| | | Contact Number | | |

| Section C: Technical Details | | |
|---|---|---|
| | *Note: This section consists of information pertaining to industry stack characteristics.* | |
| | Composite ID | Dropdown menu |
| C1 | Stack Diameter | \|_____\| Meter |
| C2 | Number of parallel chains | \|_____\| |

| | | |
|---|---|---|
| | **Parallel Chain Module: Fill out for every parallel chain in the stack *(to be repeated "C3" number of times)*** | |
| C2.1 | **What is the emission source?** | **1.** ☐ Boiler<br>**2.** ☐ Thermo-Pack/Thermic Fluid Heater<br>**3.** ☐ HAG |
| C2.2 | **How many components in the parallel chain?** | \|_____\| |
| | ***(C2.3 to C2.4 To be repeated "C2.2" number of times)*** | |
| C2.3 | **What is the 1st component in the parallel chain?** | **1.** ☐ Air pre-heater<br>**2.** ☐ Water pre-heater/economizer<br>**3.** ☐ Cyclone<br>**4.** ☐ Scrubber<br>**5.** ☐ Bag Filter<br>**6.** ☐ ESP<br>**7.** ☐ FD/ID Fan |
| C2.4 | **Is this component common to the previous parallel chain?** | □ Yes<br>□ No |
| C3 | **Type of Boiler** | 1. ☐ Fire Tube<br>2. ☐ Water Tube<br>*3.* ☐ Packaged Boiler/Smoke cum water tube boiler<br>*4.* ☐ Others *(specify)*: _____ |
| C4 | **Steam Generating Capacity** | \|_____\| TPH |
| C5 | **Average working load** | |
| C6 | **Boiler Steam Pressure** | \|_____\| ☐KPa<br>☐BAR<br>☐kg/cm$^2$<br>☐**Other** |
| C7 | **Feed Water Temperature** | \|_____\| **°C** |
| C8 | **Fuel Firing Rate** | \|_____\| kg/hr |
| C9 | **Secondary Check (Excel)** | □ Normal<br>□ Abnormal |

| **Section D: Iso-kinetic Sampling Module** | | |
|---|---|---|
| D1 | **Checked all Lab Equipment?** | □ Yes<br>□ No, read note |
| Note: If no, supervisor to contact lab team and check all sampling equipment. | | |

| | | |
|---|---|---|
| D2 | **Any Equipment missing?** | □ Yes *(specify)*: _____<br>□ No |
| D3 | **Total No. of Sample Collected** | \|_____\| |
| | ***(To be repeated "D3" number of times)*** | |
| D3.1 | **Sample Start Time** | \|___\|___\|hrs\|___\|___\|mins |
| D3.2 | **Sample End Time** | \|___\|___\|hrs\|___\|___\|mins |
| D3.3 | **DGM Start Reading** | \|_____\| |
| D3.4 | **DGM End Reading** | \|_____\| |
| D3.5 | **LPM Set by Lab** | \|_____\| |
| D3.6 | **Flue Gas Temperature** | \|_____\|**°C** |
| D3.7 | **Ambient Temperature** | \|_____\|**°C** |
| D3.8 | **Atmospheric Pressure** | \|_____\|mb |
| D3.9 | **Relative Humidity** | \|_____\|% |
| D3.10 | **Dry Bulb Temperature** | \|_____\|**°C** |
| D3.11 | **Do you have any comments?** | |

## Section E: Fly Ash Sampling Module

***(to be displayed only when Boiler is selected in C2.1)***

| | | | |
|---|---|---|---|
| E1 | **Sample Start Time** | \|___\|___\|hrs\|___\|___\|mins | |
| E2 | **Sample End Time** | \|___\|___\|hrs\|___\|___\|mins | |
| E3 | **Fly Ash Collection location** | **1.** ☐ Air pre-heater<br>**2.** ☐ Water pre-heater/economizer<br>**3.** ☐ Cyclone<br>**4.** ☐ Scrubber<br>**5.** ☐ Bag Filter<br>***6.*** ☐ ESP<br>***7.*** ☐ Stack<br>***8.*** □ *No Sample Collected, skip to question E6* | |
| E4 | **Weight of Sample Collected** | _____ | □gm<br>□ kg |
| E5 | **Is the Fly Ash Sample given to the Lab Representative?** | □ Yes<br>□ No*, (specify)*: _____ | |
| E6 | **Do you have any comments?** | | |

## Section F: Bottom Ash Sampling Module

| *(to be displayed only when Boiler is selected in C2.1)* | | |
|---|---|---|
| F1 | **Sample Start Time** | \|___\|___\|hrs\|___\|___\|mins |
| F2 | **Sample End Time** | \|___\|___\|hrs\|___\|___\|mins |
| F3 | **Bottom Ash Collection location** | **1.** ☐ Air pre-heater<br>**2.** ☐ Water pre-heater/economizer<br>**3.** ☐ Cyclone<br>**4.** ☐ Scrubber<br>**5.** ☐ Bag Filter<br>***6***. ☐ ESP<br>***7***. □ *No Sample Collected,* skip to F6 |
| F4 | **Weight of Sample Collected** | □ gm<br>□ kg |
| F5 | **Is the Bottom Ash Sample given to the Lab Representative?** | □ Yes<br>□ No*, (specify)*: _____ |
| F6 | **Do you have any comments?** | |

| | **Section G: Flue Gas Sampling Module**<br>*(to be displayed only when Boiler is selected in C2.1)* | |
|---|---|---|
| G1 | **Sample Start Time** | \|___\|___\|hrs\|___\|___\|mins |
| G2 | **Sample End Time** | \|___\|___\|hrs\|___\|___\|mins |
| G3 | **Flue Gas Collection Location** | 1. Boiler Outler<br>2. APH Outlet<br>3. Cyclone<br>4. Other, specify _____<br>5. No sample collected, skip to G5 |
| G4 | **Gas Composition Reading** | **1.** O2% : _____<br>**2.** CO2% : _____<br>**3.** CO% : _____<br>**4.** Excess Air % : _____<br>**5.** Flue Gas Temperature **°C**: _____ |
| G5 | **Do you have any comments?** | |

| **Section H: Fuel Sampling Module**<br>*(to be displayed only when Boiler is selected in C2.1)* | | |
|---|---|---|
| H1 | **Sample Fuel Type** | □ Coal (Indian); Specify Grade _____<br>□ Coal (Imported); Specify Country _____<br>□ Coke<br>□ Lignite<br>□ Pet Coke<br>□ Other Solid Fuel (specify): _____<br>□ Wood<br>□ Bagasse<br>□ Rice Husk |

| | | |
|---|---|---|
| | | □ Other Biomass (specify): _____<br>□Mix Indian + Imported Coal<br>□ Mix Indian Coal + Wood<br>□ Mix Lignite + Wood<br>□ Mix Imported coal + lignite<br>□ Don't know<br>□ *No sample collected, skip to H4* |
| H2 | **Weight of Sample Collected** | □ gm<br>□ kg |
| H3 | **Is the Fuel Sample given to the Lab Representative?** | □ Yes<br>□ No*, (specify)*: _____ |
| H4 | **Do you have any comments?** | |

| | Section I: Recheck Module | |
|---|---|---|
| I1 | **Which Sample collected and handed over to the lab** | **1.** □ Iso-kinetic Samples<br>**2.** □ Fly Ash Samples<br>**3.** □ Bottom Ash Samples<br>**4.** □ Flue Gas Samples<br>**5.** □ Fuel Samples |

| | Section J: Survey Notes | |
|---|---|---|
| J1. | ****End Time** | \|___\|___\|hrs\|___\|___\|mins |
| **J2.** | **How many people were present at the time of the interview?** | \|___\|___\| |
| J3. | **Are you satisfied with the answers given by the respondent(s)?** | □ Yes<br>□ No |
| J4. | **Do you have any other comments?** | |
| J5. | ****Survey Status Code** | *1.* □ *SS01- Complete*<br>*2.* □ *SS02- Partially Complete*<br>*3.* □ *SS03- Respondent Unavailable*<br>*4.* □ *SS04 – Industry Temporarily Closed*<br>*5.* □ *SS05- Industry Permanently Closed*<br>*6.* □ *SS06- Did Not Consent*<br>*7.* □ *SS07- Refused to Complete Survey* |