



**APPLICATION FOR APPROVAL OF
INSTALLATION THE REGISTRATION OF
CONTINUOUS EMISSION MONITORING
SYSTEM (CEMS) AT INDUSTRIAL PREMISES**



A) INDUSTRIAL DETAILS

1. Industrial Name
2. Address
3. Plant Location
4. Telephone / Fax No.
5. Plant ID
6. Plant Sector
7. Reasons of CEMS Installation

EIA Approval Condition CAR,2014

DOE Directive Others (Please Specify;)
8. Type of Application

New Installation Upgrading/Changes of Plant Operation

Changes of CEMS Equipment Others (Please Specify;)
9. Total Stack
10. Contact Person
11. Job Position
12. Email

B) SOURCE OF EMISSIONS

13. Industrial Process Description Related to the Specified Chimney for this purpose of CEMS installation.

(*Please attach relevant information and technical drawings as mentioned in Appendix 1)

14. Source of Emission

- Type of Fuel Burning Equipment/Specified Equipment Related to Specified Chimney (eg Boiler,Waste Incinerator,Furnace,Thermal Heater,Turbine etc)
- Capacity (MW or kg/hr)
- Type of Fuel (gas/solid/liquid)
- Fuel Quantity / Fuel Load (kg/hr)

15. Type of Air Pollutant Monitored

Gases Particulates/ Dust Opacity

16. Parameters To Be Monitored. Please Specify :

NO.	PARAMETERS	CONCENTRATION (mg/m ³)	LIMIT VALUE (mg/m ³)

Notes : Limit value for each parameter may subjects to the limits mentioned in CAR 2014 and/EIA Approval Condition/DOE Directive

17. Stack Information

- Stack Number
- Stack Height(m/
mm)
- Stack Diameter (m/mm)
- Upstream : Downstream:
(m/mm) (m/mm)

18. Flue Gas Information (During Normal Plant Operation)

- Temperature
- Moisture Content
- Air Flow Rate
- Pressure
- Stack Velocity

19. Written Approval / Notification Status of Fuel Burning Equipment/Specified Equipment (Please attach complete relevant document)

Type :

- Date:
- Reference Number:

20. Written Approval / Notification of Air Pollution Control System Information (Please attach complete relevant document)

- Type:(eg Cyclone,Scrubber,Bag Filter etc):
- Date :
- Reference Number :

C) INFORMATION OF CEMS EQUIPMENT

21. Description of CEMS (Please specify the information of CEMS equipment with relevant catalog or product document)

- Type

Extractive System
 Source Level
 Dilution

In Situ System
 Point
 Path
 Single Pass
 Double Pass

- Technique/Principal of Detection (eg UV Fluorescence, GFC, NDIR,FTIR,DOAS e.t.c):
- Model :
- Certification - (MCERT, TUV - (EN:14181, EN :15267-1,EN :15267-2,EN:15267-3) & Validity Date :

22. Quality Assurance Plan (QAP) for the CEMs Analyzer/Monitor for dust and gas

D) INFORMATION OF CEMS DATA COMMUNICATION

- 23. Connectivity Type
- 24. Domain Name / I.P No
- 25. TCP Port No.
- 26. Phone Number
- 27. User ID
- 28. Password

E) INFORMATION OF CEMS PERSONEL

- 29. Name
- 30. Position
- 31. Email
- 32. Certification
- 33. CEMS Relevant Training Information

F) INFORMATION OF CEMS SUPPLIER / PROVIDER

- 34 Name of Company
- 35. Address & Email
- 36. Person Incharge & Contact No.
- 37. DOE CEMS Registration Status
- 38. Date of Registration
- 39. Supplier Type:

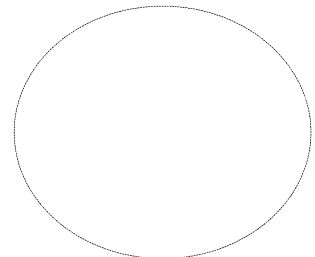
Sole/main Supplier

Distributor/Appointed Agent

I the owner/ occupier/ authorized consultant of the owner/occupier, hereby declare that all the information given in this application is to the best of my knowledge and belief true and correct.

Signature
 Name :
 NRIC No. :
 Position :
 Date :

Company's Seal



APPENDIX 1

Relevant information and technical drawings (**A1/A2 paper size**) need to be attached during submission:

- a). Overall industrial process flow chart showing the sequence of each process including all fuel burning equipment, all air pollution control and all stack location;
- b). Layout plan of industrial premises showing CEMS location;
- c). Schematic diagram of stack informations:
 - i. total stack design (side view & top view from upstream to downstream),
 - ii. total stack height(m/mm),
 - iii. stack upstream height(m/mm) - from inlet flue gas ducting to sampling port,
 - iv. stack downstream height(m/mm) - from sampling port to flue gas discharge point,
 - v. flue gas ducting to stack height(m/mm),
 - vi. location of sampling platform height(m/mm),
 - vii. location of sampling port height for dust & gas(m/mm),
 - viii. location of reference method sampling port height for dust & gas(m/mm),
 - ix. stack internal diameter & thickness(m/mm),
 - x. sample probe insertion length(m/mm),
 - xi. flange length(m/mm),
 - xii. Side view and top view diagram of sampling port for (dust & gas) and reference method
- d). Piping and Instruments Diagram (P&ID) of CEMS equipments installation for Extractive Sampling Method [stack location - heated sample probe - heated line - heated pump - temperature controller - gas conditioning - flow meter - analyser - zero & span calibration gas (mention the specific gases are required and also the technique required for the certain gases, e.g HCL, HF) - Purging/blow back & purge air unit/instrument air tubing line for dust/gas - Data Acquisition System - Data Information System] etc.

e).Diagram of CEMS equipment installation for In-Situ Sampling Method (stack location
- analyzer - zero & span calibration - Purging/blow back & purge air unit/instrument
air tubing line for dust/gas - Data Acquisition System - Data Information System)
etc.