

**CHECK LIST FOR THE APPLICATION AND REGISTRATION OF CONSULTANT  
FOR PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)**

**COMPANY NAME :** \_\_\_\_\_

<b>NO.</b>	<b>CONTENTS</b>	<b>YES(✓) / NO(X)</b>	<b>REMARKS</b>
	<b>General Requirements (Option 1 &amp; Option2)</b>		
1	Application Letter & Registration Form		
2	Company Profile		
3	Registration of Company (ROC)		
4	PEMS – Regulatory Framework USEPA and RAA & RATA Procedures		
	<b>Option 1- Requirements for Registration of PEMS Software/Modeler</b>		
5	Information on Personnel for PEMS Software and technical knowledge on industrial process		
6	PEMS Competent Certificate from Principal Modeler etc		
7	PEMS – Typical Architecture		
8	Information on PEMS: a. Predictive Method b. Modelling Software c. Security Features of Software d. Number of Input Parameter for Modelling (Minimum and Maximum) e. Typical PEMS Input Parameter		
9	Sensor Validation Methodology		
10	PEMS Quality Assurance and Quality Control Practices		
11	Company Working Experiences		

	<b>Option 2- Requirements for Registration of Stack Tester Using Mobile CEMS</b>		
12	Information on Personnel for Mobile CEMS		
13	Training Certificate from Manufacturer (Analyzers and Equipment )		
14	Authorized Distributor Letter from Manufacturer for Mobile CEMS (Analyzers and Equipment)		
15	Mobile CEMS Catalogue, Operating Manual & Specifications on Analyzers and Equipment including the detailed informations - type/model, function, parameter and range		
16	Mobile CEMS Analyzers Certification Schemes (TUV-QAL1/MCERTS-EN15267-3 & EN14181) /(Performance Specifications Test Report-Specific Field Test Report in USA(follow performance specifications procedure by USEPA)		
17	Mobile CEMS on-site Installation & Operation Procedure		
18	Mobile CEMS Analyzers and Equipment Schematic Diagram showing (Gas Sampling Probe-Heated Sampling Line-Gas Conditioning System-Flowmeter-Analyzer-Calibration Gas etc)		
19	Mobile CEMS Analyzer Calibration Procedure		
20	Stack Sampling Methodology and Reference Methods		
21	Description for Normalized at Standard Condition(STP) and Corrected at Reference Oxygen (Refer to Table 2, CAR 2014)		
22	Information on CEMS-DIS: a. Computer Hardware and Operating System b. Discription process of data collection from CEMS instruments to DOE Server c. Process flow of data collection from CEMS instrument to DOE Server d. Database Management System (DBMS) used e. Table Reading Structure (refer to item 3.3.8 - data format and data structure, CEMS Guideline Volume II) f. CEMS-DIS Reporting System		

23	Quality Assurance and Quality Control Practices (eg QC Activities – daily, weekly and monthly checks)		
24	Example for PEMS RAA/RATA Test Report (Summary, Introduction, QA & QC, Sampling and Analytical Methodologies, Test Results and Conclusion)		
25	Company Working Experiences		