

**SENARAI SEMAK PENILAIAN PERMOHONAN PENDAFTARAN  
JURURUNDING CEM/PEMS JABATAN ALAM SEKITAR**

**NAMA SYARIKAT :** \_\_\_\_\_

<b>BIL</b>	<b>PERKARA</b>	<b>Ada(✓) / Tiada(X)</b>	<b>Catatan</b>
1	Surat Permohonan		
2	Borang Permohonan Pendaftaran Jururunding CEMS/PEMS		
3	Profil Syarikat		
4	Sijil Pendaftaran Syarikat (ROC)		
5	Equipment Manual / Catalogue (Operation & Maintenance Procedure)		
	a. Kesesuaian analyzer / equipment dengan kategori pelepasan(gas/particulate/ opacity)		
6	Surat Perakuan 'Sole Distributor' dari CEMS Manufacturer / Surat Perakuan 'Sub Distributor' dari 'Sole Distributor'		
7	Training Certification From Manufacturer		
8	CEMS Certification Schemes		
	a. United Kingdom Monitoring Certification Scheme (MCERTS)		
	b. German Technical Inspection and Monitoring Union (TUV)		
	c. EN14181 and IS EN13284-2		
	d. 40 CFR 60, Appendix B of the US Code of Federal Regulations, Performance Specifications (2 – 15)		
9	Quality Assurance Procedure & Quality Control Procedure (Please refer to CEMS Guidelines Volume 1)		
10	Information on Personnel for CEMS (Appendix A1) & Information on Analyzers and Equipment for CEMS (Appendix A2)		
11	Information on Personnel for PEMS (Appendix		

	B1) & Informations on PEMS (Appendix B2)		
12	Information on CEM-DIS (Data Interface System) Appendix C		
13	Company Working Experience (Appendix D)		



**APPLICATION FOR THE REGISTRATION OF  
CONSULTANTS FOR  
CONTINUOUS EMISSION MONITORING  
SYSTEM (CEMS) /  
PREDICTIVE EMISSION MONITORING  
SYSTEM (PEMS)**



**Registration for :** (Please check (✓) in the appropriate box.)

**CEMS**

Providing services for the installation of Continuous Emission Monitoring System (CEMS) , CEMS Data Acquisition System (DAS) and CEMS Data Interfacing System (DIS) at industrial premises for data transmission from DAS to a remote monitoring and enforcement system at the Department of Environment (DOE).

**PEMS**

Providing services for the installation of Predictive Emission Monitoring System (PEMS) , at industrial premises for data transmission from DAS to a remote monitoring and enforcement system at the Department of Environment (DOE).

**A) COMPANY DETAILS**

1. Company Name
2. Registration Number
3. Incorporation Date   -   -     (dd-mm-yyyy)
4. Registered Address
5. Mailing Address
6. Telephone    -
7. Fax    -
8. Website
9. E-mail
10. Contact Person
11. Please enclose your Company Profile and copy of ROC document

**B) FIELD OF SPECIALIZATION IN CEMS APPLICATION**

12. Type of industries/ industrial processes

- Palm oil mill                       Cement industry                       Others (please specify)
- Power plant                       Iron and steel mill                      \_\_\_\_\_
- Scheduled waste facilities    Incinerators                      \_\_\_\_\_
- Oil and Gas Industries                      \_\_\_\_\_

13. Categories of emission monitoring : \*

- Gases                       Particulate                       Opacity

14. a. Information of type of analyzers and equipment (DAS) in Appendix A

b. Information of DIS software must be compatible/ connected / communicate with DOE server. (Appendix C)

c. Information of certified employee related to each analyzers, equipment and employees working experiences in Appendix A

15. Information on your company's working experiences in Appendix D.

**C) FIELD OF SPECIALIZATION IN PEMS APPLICATION (\*PEMS is not applicable for solid fuel)**

16. a. Type of industries/ industrial processes

- Oil and Gas Industries                       Chemical Industry
- Power Generation (liquid and gas fuel)

b. Information on Personnel for PEMS (Appendix B1)

c. Information on PEMS (Appendix B2)

**D) CEMS CERTIFICATION SCHEMES AND FAMILIARITY WITH CONTROL PROCEDURE QUALITY ASSURANCE & QUALITY CONTROL PROCEDURE**

17. International schemes and standards : \*

- The United Kingdom Monitoring Certification Scheme (MCERTS)
- German Technical Inspection and Monitoring Union (TUV-QAL1)
- EN14181 and IS EN13284-2
- 40 CFR 60, Appendix B of the US Code of Federal Regulations, Performance Specifications (2 – 15)

\* Please check (✓) wherever applicable.

**E) DECLARATION AND AUTHORIZATION**

I/We hereby declare that all the information furnished in this form and any annexure(s) that comes with it are true, accurate, complete and up-to-date in all respect.

I/We authorize the Malaysian Department Of Environment to publish the following information in the Department's website at <http://www.doe.gov.my>. (Please check (✓) wherever applicable.)

Information furnished in the application form

Details Information of Analyzers, Equipment and Employee Working Experiences (Appendix A)

Details information of Personnel for PEMS (Appendix B1) and information on PEMS (Appendix B2) (If applicable)

Details information of DIS software (Appendix C)

Company Working Experience (Appendix D)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company's Seal

Name :  
NRIC No. :  
Position :  
Date :

**INFORMATION ON PERSONEL FOR CEMS**

No.	Name Of Certified Employee	Academic Qualification	Working Experiences	Training Certification From Manufacturer

## APPENDIX A2

**INFORMATION ON ANALYZERS AND EQUIPMENT FOR CEMS**

No.	Type Of Analyzers And Equipment	Model No.	Parameters and Specified Range	Certification Of Analyzers And Equipment * (certified by MCERTS / TUV/ EN14181 and IS EN13284-2 / 40 CFR 60, Appendix B of the US Code of Federal Regulations, Performance Specifications (2 – 15))	Equipment Manual/ Catalogue	

(\* Certification for each model)

**INFORMATION ON PERSONEL FOR PEMS**

No.	Name Of Certified Employee	Academic Qualification	Working Experiences	Training Certification From Manufacturer

**INFORMATION ON PEMS**

No.	Predictive Method (First Principle, Neural Network or Statistical Hybrid)	Modelling Software (Licensed Software)	Security Features of Software	Number of Input Parameter for Modelling	
				Minimum	Maximum

APPENDIX C

Bil.	Nama @ Sistem Software DIS	Status dibangunkan sendiri@ kerjasama dengan syarikat lain	Lain-lain maklumat sokongan

\* Sekiranya DIS dibekalkan dengan kerjasama syarikat lain sila sertakan dokumen perjanjian  
 Contoh : Undertaking letter

APPENDIX D

**COMPANY WORKING EXPERIENCE**

List of CEMS and PEMS consultancy and installation works carried out in the last five (5) years :

No.	Year	Project Title (Contract)	Client	Project Description	Scope of work	Type of Analyzer and Parameter Monitored	Project Value (RM)



**KRITERIA DAN SYARAT PENDAFTARAN JURURUNDING  
CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) /  
PREDICTIVE EMISSION MONITORING SYSTEM (PEMS)  
JABATAN ALAM SEKITAR**

1. Jururunding hendaklah berupaya membekal, memasang, menguji dan mentauliah peralatan lengkap bagi CEMS/PEMS, **Data Acquisition System (DAS)** dan **Data Interface System (DIS)** serta bertanggungjawab memastikan penghantaran maklumat ke Jabatan Alam Sekitar (JAS) secara berterusan atas talian tanpa gagal;
2. Mengemukakan maklumat CEMS berkaitan *academic qualification* beserta *training certification from manufacturer* dan maklumat berkaitan *analyzers and equipment* serta salinan maklumat sokongan dengan lengkap ke JAS seperti dalam Appendix A1 dan A2;
3. Mengemukakan maklumat PEMS seperti dalam Appendix B1 dan B2 jika berkaitan;
4. Mengemukakan maklumat berkaitan *equipment manual/katalogue* yang lengkap bagi kesesuaian *analyzers and equipment* dengan katogeri pelepasan (gas/particulate/opacity) dan mempunyai pengesahan dari pembuat peralatan bagi CEMS/PEMS;

5. Mengemukakan ***pensijilan yang sah mengikut International Schemes and Standards*** dari badan bertauliah (MCERTS/TUV(QAL1)/USEPA) yang diiktiraf bagi mengesahkan setiap *analyzers and equipment* bagi CEMS;
6. Mengemukakan maklumat berkaitan DIS Software serta dokumen sokongan lain seperti dalam Appendix C;
7. Mempunyai ***kakitangan yang kompeten/terlatih*** yang telah menjalani latihan bagi pengendalian *analyzers and equipment* daripada pengeluar peralatan CEMS;
8. Mengemukakan maklumat lengkap berkaitan ***Quality Assurance(QA) and Quality Control(QC) Procedure*** bagi setiap *analyzers and equipment* yang mendapat pensijilan dari MCERTS/TUV(QAL1)/USEPA; dan
9. Pendaftaran sebagai jururunding CEMS/PEMS hanya dibenarkan kepada syarikat berdaftar dengan Suruhanjaya Syarikat Malaysia.