

Republic of Iraq
Ministry of Electricity
General directorate of electrical energy
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جمهورية العراق
وزارة الكهرباء
المديرية العامة لإنتاج الطاقة الكهربائية في البصرة
قسم الشؤون التجارية


No. : 39
DATE : 12 / 1 / 2015

SUB./Re. Advertising TENDER No. 5/2/24/1180 S

The General Directorate of Electrical Energy Production in Basrah is advertising tender to supply **(supply installation and operation the Equipmnet of contionus emission monitoring system (CEMS)**) to Hartha power station according to the specifications and general conditions as attached . So those who want to participate, should consult Commercial department to buy the tender conditions for non-refundable amount of (275,000 I.D) and submit primary insurances(bid bond) amounting to (25000) twenty five thousand dollar issued by accredited bank in Iraq. knowing that the potential amount of the material is(1,250,000)\$. The deadline of receiving offers is 12 o'clock of the official work day dated 11. / 02. / 2015 In case the closing date happens to be an nexpected official holiday, The closing date will be the next official work day after the holiday

Our directorate is not obliged to accept the lowest offer.

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Tahseen Zaki Salem
Director General
12 / 1 / 2015

Power Station: Hartha power station	المحطة : الهارثة
REF NO. 5/2/24/1180 S	رقم الطلب : ١١٨٠/٢٤/٢/٥ أس

Request summary

Supply ,installation and operation the Equipment of Continuous Emission Monitoring System (CEMS) for units (2&3) in Hartha thermal power station (TOW SETS ONE FOR EACH UNIT)

1- PURPOSE OF request:-

This document provides the specifications for Continuous Emission Monitoring System (CEMS) to be installed for the operation of Units 2 and 3 of the Al Hartha Power Station, as required in the project's ESMP. It identifies and defines acceptable methods and specifications for the supply, installations and operation of the CEMS.

The CEMS specifications presented in this document are mainly based on standards and specifications prepared by regulatory authorities from USA, Canada and Australia

2- GENERAL REQUIRMENTS:-

MONITORING PARAMETERS

The CEMS shall be capable of monitoring the following parameters:

- Sulfur dioxide (SO₂);
- Nitrogen oxides (NO_x) expressed as nitrogen dioxide (NO₂);
- Carbon monoxide (CO);
- Particulate matter (PM);
- Oxygen (O₂);
- Carbon dioxide (CO₂);
- Total hydrocarbons (THC)
- Stack gas volumetric flow rate and velocity; and
- Stack gas temperature.

3- International CEMS Regulations/Guidelines:-

In the absence of specific Iraqi regulatory guidelines and requirements on CEMS, internationally accepted guidelines have been adopted to define the technical specifications of the CEMS to be installed. Specifically, the CEMS should comply with the following standards:

- USEPA 40 CFR Part 75 (Continuous Emission Monitoring) Subpart B (Monitoring Provisions); and
- USEPA 40 CFR Part 60 Appendix B, Promulgated CEMS Performance Specifications.

In addition, the CEMS accuracy (analyzer detection limit, span, response time, etc.) must also comply with specifications set out in the following standard, in addition to the USEPA standard listed above:

- Department of Environment and Conservation, Government of Western Australia. Continuous Emission Monitoring System (CEMS) Code for Stationary Source Emissions , October 2006.

The CEMS to be installed and operated as part of the Units 2 and 3 of the Al Hartha Power Station shall comply with the technical requirements of the above regulations, as specified in this document (see Section 4.0).

All other aspects of the CEMS not specifically mentioned in this document (i.e. CEMS auxiliaries, installation procedures, sampling point location, etc.) shall be in accordance with internationally accepted standards