

DEPARTMENT OF MECHANICAL ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY DELHI

Date: 13.02.2012

Notice Inviting Quotations

Quotations are invited for purchase of a Data Acquisition System (hardware and software) for monitoring and preferably controlling operations of a biomass stove system.

Notes

1. Sensors are already installed on the set-up and are not part of data acquisition hardware.
2. Hardware connectors should be compatible with the existing sensors.
3. Computer interface of Data Acquisition System to be done using USB 2.0.
4. The sampling rate in all cases is 100 sample per sec. which should be varied as per the requirements & every run typically extends to several hours.

Required inputs to be monitored/ recorded

1. 32 K-type thermocouples (Temperature range: ambient-1100°C ± 0.01 °C).
Software should be configurable to other types of thermocouples also.
2. Two mass flow controllers (Make: Alicat Scientific Instruments, Model: MC-100SLPM-D/5M)
3. Two digital weighing scales (Range: 0-50 kg, Resolution: 1 g)

Software for the purpose should provide a facility

- To plot all the outputs on properly labeled graphs with the zooming, panning and auto-scaling
- To display several plots simultaneously on a single graph.

Preferable options

1. Mass flow Controller controllable from software.
2. Complete software and hardware should be configured for the system in the laboratory by the vendor.
3. After sale support for at least one year from the date of installation.
4. The software should run on both Windows and Linux operating systems.

Terms and Conditions:

- i. Quotations should preferably be submitted by authorized dealers/ distributors (Please include a copy of certificate).
- ii. IIT Delhi is exempted from excise duty and necessary certificate can be issued, if required.
- iii. IIT Delhi reserves the right to reject any or all quotations without assigning any reason.

iv. Submit your technical and commercial offers in separate sealed envelopes to the following address so as to reach latest by 27.02.2012, 1.00 pm.

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