

**GOVERNMENT OF INDIA  
BHABHA ATOMIC RESEARCH CENTRE  
CHEMICAL TECHNOLOGY GROUP  
Control, Measurement & Drives Section**

NOTICE INVITING TENDER

Tender Ref. No. *CHTG/CM&DS/417/2017/GSS*

Date: *13.11.17*

Sealed quotations are invited on behalf of President of India by Head, CM&DS/BARC, CEL-V, Mumbai-400096 for the following work from contractors;

Name of work: *Fabrication and supply of Customised DSP based Communication Modules & Application Software as per Annexure-1*

Quantity: 2 nos.

Parties who have done similar works of similar magnitude and quality for BARC or any other unit of DAE may only quote with proper credentials. Any bid without substantiation of this information will be summarily rejected.

1. Period of completion: 60 days from the date of issue of work order.
2. The vendors may contact on Telephone No. 25593508 for submission of application for tender/issuance of enquiry.
3. Sealed Quotations should be submitted only through speed post through Indian Postal Service.  
**Hand delivery of quotation will not be accepted.**
4. Since BARC is a protected area, the party shall arrange **Police Verification Certificate** for their engineers and workmen as per the security guidelines of BARC before the issue of work order.
5. Enquiries will be issued to the eligible vendors from 14/11/2017 onwards between 10:30 hrs to 16:00 hrs (only on working days).
6. Sealed quotations will be received upto 12:00 hrs on 20/11/2017 and will be opened on 21/11/2017 at 14:30hrs.

The Head, Control Measurement & Drives Section, BARC reserves the right to accept or reject any or all quotations without assigning any reason.

Annexure 1

**Customised DSP Based Communication modules**

Customised DSP Base Communication Modules should perform the following functions and should be user configurable as per the attached specification

Product or component type	<b>Communication Modules(Serial Link Modules)</b>
Concept	Serial link
Integrated connection type	2 RS485 RJ45 57.6 kbit/s 1 twisted pair 1 RS232 RJ45 115.2 kbit/s 8 wires
Type of connector	2 RJ45 and 1 RJ45
Access method	Master/slave with Modbus link, Full duplex (RS 232)/Half duplex (RS 485)
Data rate	0.3...115.2 Kbps in RS 232 0.3...57.6 Kbps in RS 485
Medium	Shielded twisted pair copper cable
Supply Internal	Power supply via rack
Local signalling	1 LED red module fault (ERR) 1 LED green module running (RUN) 1 LED green activity on the serial link (SER COM 0) 1 LED green activity on the serial link (SER COM 1)
Current consumption	80 mA at 24 V DC
Module format	Back Plane mountable
Ambient temperature for operation	air for 32...140 °F (0...60 °C)
Relative humidity	10...95 % without condensation
IP degree of protection	IP20
Standards	CSA C22.2 No 213 Class I Division 2 EN/IEC 61131-2 CSA C22.2 No 142
<b>Quantity</b>	<b>2</b>
The above module should be programmable from a windows based application software as per user requirement. The successful bidder will have to program the modules as per user requirement which will be communicated at the time of purchase order. The running of the module will have to be demonstrated at the user lab with modbus based communication slaves	
<b>Software Development package</b>	As per user requirement
<b>Quantity</b>	<b>1 lot</b>