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प्लाज़्मा अनुसंधान संस्थान
INSTITUTE FOR PLASMA RESEARCH
परमाणु ऊर्जा विभाग, भारत सरकार का एक सहायता



प्राप्त संस्थान

An Aided Institute of Department of Atomic Energy,
Government of India

इन्दिरा पुल के पास, भट, गांधीनगर - 382 428 भारत

दूरभाष: (079) 2396 2020/2021/2028

फैक्स: 91-079-23962277

वेब: www.ipr.res.in

NEAR INDIRA BRIDGE, BHAT

DIST. GANDHINAGAR - 382 428 (INDIA)

Phone: (079) 2396 2020/2021/2028

Fax : 91-079-23962277

Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/137

Date : 28-06-2019

Due on : 08-08-2019 by 1:00 PM IST

Please send your offer in sealed envelope specifying Enquiry No, Date & Due Date,
ALONG WITH your credentials for the following items:

Important Note:

Please note that e-mail quotations are not acceptable however you may send your
queries (if any) to localpurchase@ipr.res.in

Please ensure your sealed quotation reaches this office not later than above mentioned
due date and time.

Kindly go through the following documents properly before quoting which are available on
the IPR web portal i.e., http://www.ipr.res.in/documents/tender_terms.html / attached
herewith.

- 1) Instructions to the bidders & Terms and conditions (refer Form No: **IPR-LP-01.V4**)
- 2) Bidding format

GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS): Please refer **clause no: 8** of Form No: **IPR-LP-01.V4**

QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

| Sr No | Description | Quantity |
|-------|---|----------|
| 1 | Universal Input type Portable Datalogger system | 1.0 Nos. |

Note: Note : (1) Unsigned quotations are not acceptable.
Quotation should be submitted duly signed on ALL PAGES
invariably
(2) TDS as per CGST Act : As per provisions of section

No. 51 of the CGST Act 2017, TDS @ 2% (IGST 2% or CGST 1% and SGST 1%) will be deducted while making payment to the suppliers where total value of orders/contracts/work orders exceeds Rs. 2.5 Lakhs, in the event of order in Indian Rupees

Encl: Delivery Time:08-10 Weeks
As Per Attachment

Sd/-

Mr. D. Ramesh
Purchase Officer-II

Information to Vendors: We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e, <http://www.ipr.res.in/documents/tenderseng.html> for our future requirement.

Technical specifications of a Universal Input type Portable Datalogger system

| Sr. No. | Parameter | IPR Specification |
|---------|--|---|
| 1) | Analog Input Channels | At-least 16 universal input channels and should be further expandable up to at least 16 more universal input channels |
| 2) | Measurement Parameters | a) Thermocouples: K, J, E, T & N type (20 °C – 800 °C) b) Pt-100 RTD: 3-Wire (20 °C -600 °C) c) Voltage: ±100 mV, ±1 V, ± 2 V, ±10 V, ± 100 V DC (selectable) d) Current: 4 - 20 mA (DC) |
| 3) | Measurement Accuracy tolerance limits | a) K type Thermocouples: Within ± 2.0 °C (for 20 °C – 800 °C range) b) Pt-100 RTD: Within ±1 °C (for 20 °C-600 °C range) c) Voltage: Within ±100 µV (for ±100 mV range), Within ±1 mV (for ±1 V range), Within ±2 mV (for ±2 V range), Within ±10 mV (for ±10 V range), Within ±100 mV (for ±100 V range) |
| 4) | Reference junction compensation & burn-out detection | Required for thermocouple signals |
| 5) | Functional Requirement | Stand-alone portable system (without requirement of a PC system or any other peripherals) |
| 6) | Signal connection | Screw terminals/Spring loaded |
| 7) | Display | Backlit LCD display for Real-time display of data waveforms & numerical values Language: English |
| 8) | Display update frequency | 1 Hz or better while using all the channels simultaneously |
| 9) | Data logging frequency | 100 ms or better for at least 8 channels while using all the channels simultaneously |
| 10) | Time-stamp for logged data samples | Time Format HH:MM:SS ; Date format: dd/mm/yyyy or yyyy/mm/dd |
| 11) | Data-log file format | Microsoft Excel format (preferred) |
| 12) | Internal memory | Atleast 16 MB |
| 13) | Ambient conditions | 20° C – 40 °C |
| 14) | Data storage | External USB drive and/or Memory card |

| | | |
|-----|------------------------------|--|
| 15) | Data protection | Complete logged data should be saved automatically in case of a sudden power failure. Vendor should include necessary battery pack to ensure the same. |
| 16) | EMC/EMI compatibility | As per EN-61326 |
| 17) | Channel to channel isolation | 250VDC or better |
| 18) | Input power supply | 230 VAC , 50 Hz |
| 19) | Application software | Required to optionally interface (through LAN or USB) & configure the datalogger system with Windows OS compatible PC. Necessary interface cables shall be provided by the vendor. |
| 20) | Test Reports | Vendor shall submit the calibration certificate for the equipment for Voltage, current and temperature parameters. Measurement accuracy shall be within the tolerance limits as mentioned in Sr. No - 3. |
| 21) | Documents | Vendor shall submit detailed technical brochure, operational manual with wiring and connection diagrams for the equipment. |
| 22) | Warranty/Guarantee | Vendor shall provide a guarantee/warranty of minimum 1 (one) year for the equipment. The necessary guarantee/warranty certificate shall be sent to IPR along with the delivery of the equipment. |
| 23) | Delivery of product | Product should be delivered within 8 to 10 weeks from the date of receipt of technically and commercially clear order. |

Note: Vendor shall clearly mention the model number and submit the detailed technical Specifications and brochure for the offered equipment along with the quotation.

Data Sheet to be filled by the vendor

Vendor is requested **not to write only 'complied'** but give proper inputs in the specified column (Vendor's Reply)

| Sr. No | Parameter | IPR Specification | Vendor's Reply |
|--------|--|---|----------------|
| 1) | Analog Input Channels | At-least 16 universal input channels and should be further expandable up to at least 16 more universal input channels | |
| 2) | Measurement Parameters | a) Thermocouples: K, J, E, T & N type (20 °C – 800 °C) b) Pt-100 RTD: 3-Wire (20 °C -600 °C) c) Voltage: ± 100 mV, ± 1 V, ± 2 V, ± 10 V, ± 100 V DC (selectable) d) Current: 4 - 20 mA (DC) | |
| 3) | Measurement Accuracy tolerance limits | a) K type Thermocouples: Within ± 2.0 °C (for 20 °C – 800 °C range) b) Pt-100 RTD: Within ± 1 °C (for 20 °C-600 °C range) c) Voltage: Within ± 100 μ V (for ± 100 mV range), Within ± 1 mV (for ± 1 V range), Within ± 2 mV (for ± 2 V range), Within ± 10 mV (for ± 10 V range), Within ± 100 mV (for ± 100 V range) | |
| 4) | Reference junction compensation & burn-out detection | Required for thermocouple signals | |
| 5) | Functional Requirement | Stand-alone portable system (without requirement of a PC system or any other peripherals) | |
| 6) | Signal connection | Screw terminals/Spring loaded | |

| | | | |
|-----|------------------------------------|--|--|
| 7) | Display | Backlit LCD display for Real-time display of data waveforms & numerical values Language: English | |
| 8) | Display update frequency | 1 Hz or better while using all the channels simultaneously | |
| 9) | Data logging frequency | 100 ms or better for at least 8 channels while using all the channels simultaneously | |
| 10) | Time-stamp for logged data samples | Time Format HH:MM:SS ; Date format: dd/mm/yyyy or yyyy/mm/dd | |
| 11) | Data-log file format | Microsoft Excel format (preferred) | |
| 12) | Internal memory | Atleast 16 MB | |
| 13) | Ambient conditions | 20° C – 40 °C | |
| 14) | Data storage | External USB drive and/or Memory card | |
| 15) | Data protection | Complete logged data should be saved automatically in case of a sudden power failure. Vendor should include necessary battery pack to ensure the same. | |
| 16) | EMC/EMI compatibility | As per EN-61326 | |
| 17) | Channel to channel isolation | 250VDC or better | |
| 18) | Input power supply | 230 VAC , 50 Hz | |
| 19) | Application software | Required to optionally interface (through LAN or USB) & configure the datalogger system with Windows OS compatible PC. Necessary interface cables shall be provided by the vendor. | |

| | | | |
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| 20) | Test Reports | Vendor shall submit the calibration certificate for the equipment for Voltage, current and temperature parameters. Measurement accuracy shall be within the tolerance limits as mentioned in Sr. No - 3. | |
| 21) | Documents | Vendor shall submit detailed technical brochure, operational manual with wiring and connection diagrams for the equipment. | |
| 22) | Warranty/Guarantee | Vendor shall provide a guarantee/warranty of minimum 1 (one) year for the equipment. The necessary guarantee/warranty certificate shall be sent to IPR along with the delivery of the equipment. | |
| 23) | Delivery of product | Product should be delivered within 8 to 10 weeks from the date of receipt of technically and commercially clear order. | |
| 24) | Model number of product | Vendor shall clearly mention the model number and submit the detailed technical specifications and brochure for the offered equipment along with the quotation. | |



