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

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## ENQUIRY

ENQUIRY NO : IPR/EQL/18-19/079  
Date : 13-06-2018

**Due on : 03-07-2018 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](mailto: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](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	Ethernet based remote IO modules as per attached specifications	2.0 Nos.

Note: -

Encl: 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.

## Compliance Form

<b>Ethernet Based IO Modules General Specs- common to all item in Table1</b>			
<b>Sr. Nos.</b>	<b>Particulars</b>	<b>IPR Specification</b>	<b>Vendors Specification to be mentioned in values</b>
a.	Ethernet Ports	Minimum one 10/100Mbps or higher RJ 45 port.	
b.	Protocols supported	Modbus TCP/IP	
c.	Standard web browser configuration Supported	Yes	
d.	Power Input	Should operate at Nominal 24V DC	
e.	Peer to peer communication	Yes	
f.	Isolation Protection	Yes	
g.	Mounting	DIN Rail mounted	
h.	Operating temperature	(0 deg C to 70 deg C) or better	
i.	Standards and certification	CE	
j.	Modbus TCP/IP User Manual	Available	

**Table1**

	<b>Particulars</b>	<b>IPR Specification</b>	<b>Vendors Specification to be mentioned in values</b>
<b>Module with the following specification (Ethernet Based-Modbus TCP/IP)</b>			
<b>Item1</b>	Analog Input module	<ul style="list-style-type: none"> <li>• 4 or more nos. of channels</li> <li>• Selectable range: Current: 0 to 20mA, 4 to 20 mA Voltage: ±5V, ±10V</li> <li>• 16-bit resolution or better</li> </ul>	
<b>Item2</b>	Analog Output module	<ul style="list-style-type: none"> <li>• 2 or more nos. of channels</li> <li>• Selectable range: Current: 4 to 20 mA Voltage: 0 to 10V</li> <li>• 12-bit resolution or better</li> </ul>	
<b>Item3</b>	Digital I/O	<ul style="list-style-type: none"> <li>• Digital Input (DI): 4 or more nos. of channels</li> <li>• Digital Output (DO): 2 or more nos. of channels</li> </ul>	
<b>Item 4</b>	Thermocouple input Module	<ul style="list-style-type: none"> <li>• 4 or more nos. of channels</li> <li>• 16-bit or better resolution</li> <li>• Type: J, K, T ,E, R, S, B</li> </ul>	

## Technical Specification

<b>Ethernet Based IO Modules General Specs- common to all item in Table1</b>		
Sr. Nos.	Particulars	IPR specifications
a.	Ethernet Ports	Minimum one 10/100Mbps or higher RJ 45 port.
b.	Protocols supported	Modbus TCP/IP
c.	Standard web browser configuration Supported	Yes
d.	Power Input	Should operate at nominal 24V DC
e.	Peer to peer communication	Yes
f.	Isolation protection	Yes
g.	Mounting	DIN Rail mounted
h.	Operating temperature	(0 deg C to 70 deg C) or better
i.	Standards and certification	CE

**Table1**

	Particulars	IPR specifications
<b>Module with the following specification (Ethernet Based-Modbus TCP/IP)</b>		
<b>Item 1</b>	<b>Analog Input Module</b>	<ul style="list-style-type: none"> <li>• 4 or more nos. of channels</li> <li>• Selectable range: Current: 0 to 20mA, 4 to 20 mA Voltage: ±5V, ±10V</li> <li>• 16-bit resolution or better</li> </ul>
<b>Item 2</b>	<b>Analog Output module</b>	<ul style="list-style-type: none"> <li>• 2 or more nos. of channels</li> <li>• Selectable range: Current: 4 to 20 mA Voltage: 0 to 10V</li> <li>• 12-bit resolution or better</li> </ul>
<b>Item 3</b>	<b>Digital I/O module</b>	<ul style="list-style-type: none"> <li>• Digital Input (DI): 4 or more nos. of channels</li> <li>• Digital Output (DO): 2 or more nos. of channels</li> </ul>
<b>Item 4</b>	<b>Thermocouple input Module</b>	<ul style="list-style-type: none"> <li>• 4 or more nos. of channels</li> <li>• 16-bit or better resolution</li> <li>• Type: J, K, T ,E, R, S, B</li> </ul>

- Item no.1, 2 and 3 shall be quoted as single module separately or in any combination. Item no 4 should be quoted as a separate module.
- Software other than standard web configuration, if required shall also be quoted along with and it should be latest version with full features and compatible with Windows 7/Linux, 64-bit OS or higher.
- Manufacturer must support open MODBUS TCP/IP protocol and shall provide Modbus TCP/IP user manual for accessing MODBUS register address.

- The vendor shall quote for all necessary accessories or modules required for integrated operation.
- Vendor shall be responsible for installation, testing and demonstration of supplied items at IPR.
- The products shall be under standard warranty for one year or more from date of acceptance at IPR. Vendor may also quote for extendable warranty, if applicable
- All the modules shall be from same OEM for integration and peer to peer communication

**Note:**

- The vendor shall supply the full datasheet along with quote and highlight the product compliance against the requirement on the datasheet. Please mention the values corresponding to the particulars and do not enter Yes, No, OK, available, Complied, etc. in the compliance form wherever applicable
- The vendor shall be an authorized distributor of the OEM Manufacturer and the authorization certificate must be included in the quote.