

## INVITATION FOR QUOTATION

TEQIP-II/2015/GJ1G02/Shopping/M-EE-11

02-Dec-2015

**Sub: Invitation for Quotations for supply of Goods**

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	6 digital output / 6 digital Input Power Relay Module	1	28	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
2	16 Channel Source type Digital Input / Digital Output Module	1	28	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site
3	12 Channel Isolated Universal I/O Module	1	28	BVM Engineering College, Vallabh Vidyanagar, Gujarat-388120	Free at the time of delivery at our site

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase II** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
- 3.1 The contract shall be for the full quantity as described above.
- 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.

3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.

3.4 Applicable taxes shall be quoted separately for all items.

3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.

6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

6.1 are properly signed ; and

6.2 Confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

9. Payment shall be made in Indian Rupees as follows:

**Delivery and Installation - 90% of total cost**

**Satisfactory Acceptance - 10% of total cost**

10. All supplied items are under warranty of **24 months** from the date of successful acceptance of items with free replacement at our site.

11. You are requested to provide your offer latest by **15:00** hours on **21-Dec-2015**.
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Free Training at the time of Installation at our site**
14. Testing/Installation Clause (if any) **Free Installation at the time of delivery at our site**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,  
BVM Engineering College, Vallabh Vidyanagar, Dist: Anand , Gujarat- 388120
17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)  
Name & Designation

**Annexure I**

<b>Sr. No.</b>	<b>Name of Item</b>	<b>Detailed Technical Specifications</b>
1	6 Digital output / 6 digital Input Power Relay Module	<p>Communication: 10/100 Base-T Ethernet</p> <ul style="list-style-type: none"> <li>• Supports Protocol: Modbus/TCP, TCP/IP, UDP, HTTP, ICMP and ARP</li> <li>• Supports Peer-to-Peer and GCL</li> </ul> <p><b>Digital Input</b></p> <ul style="list-style-type: none"> <li>• Channels: 6</li> <li>• Dry Contact: <ul style="list-style-type: none"> <li>Logic level 0: Close to Ground</li> <li>Logic level 1: Open</li> </ul> </li> <li>• Wet Contact: <ul style="list-style-type: none"> <li>Logic level 0: 0 ~ 3 VDC</li> <li>Logic level 1: 10 ~ 30 VDC</li> </ul> </li> <li>• Supports 3 kHz counter input (32-bit + 1-bit)</li> <li>• Supports 3 kHz frequency input</li> <li>• Supports inverted DI status</li> </ul> <p><b>Relay Output</b></p> <ul style="list-style-type: none"> <li>• Channels: 6 (Form A)</li> <li>• Contact rating (Resistive): AC: 250 V @ 5 A DC: 30 V @ 3 A</li> </ul>

		<ul style="list-style-type: none"> <li>• Breakdown voltage: 500 VAC (50/60 Hz)</li> <li>• Relay on time: 7 millisecond</li> <li>• Relay off time: 3 millisecond</li> <li>• Total switching time: 10 milliseconds</li> <li>• Insulation Resistance: 1 G<math>\Omega</math> minimum at 500 VDC</li> <li>• Maximum Switching Rate: 20 operations/minute (at rated load)</li>   <li>• Electrical Endurance At 30 VDC / 3 A Typical 1 x 10<sup>5</sup> operations (Operating frequency 20 operations/minute) At 250 VAC / 3 A Typical 1 x 10<sup>5</sup> operations (Operating frequency 20 operations/minute)</li>   <li>• Mechanical endurance Typical 2 x 10<sup>7</sup> operations (Under no load at operating frequency of 180 operations/minute)</li> <li>• Supports pulse output (maximum 3 Hz)</li>   <li>General: <ul style="list-style-type: none"> <li>• Built-in Watchdog Timer</li> <li>• Isolation Protection: 2000 VDC</li> <li>• Power Input: Unregulated 10 ~ 30 VDC</li> <li>• Power Consumption: 2.5 W @ 24 VDC</li> <li>• Power Reversal Protection</li> <li>• Operating Humidity: 20 ~ 95 % RH (non-condensing)</li> <li>• Storage Humidity: 0 ~ 95 % RH (non-condensing)</li> <li>• Operating Temperature: -10 ~ 70° C</li> <li>• Storage Temperature: -20 ~ 80° C</li> </ul> </li> </ul>
2	16 Channel Source type Digital Input / Digital Output Module	<ul style="list-style-type: none"> <li>• Communication: 10/100 Base-T Ethernet</li> <li>• Supports Protocol: Modbus/TCP, TCP/IP, UDP, HTTP, ICMP and ARP</li> <li>• Supports Peer-to-Peer and GCL</li>   <li><b>Digital Input</b> <ul style="list-style-type: none"> <li>• Channels: 8</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• Dry Contact: Logic level 0: Close to Ground Logic level 1: Open</li> <li>• Wet Contact: Logic level 0: 0 ~ 3 VDC Logic level 1: 10 ~ 30 VDC</li> <li>• Supports 3 kHz counter input (32-bit + 1-bit overflow)</li> <li>• Supports 3 kHz frequency input</li> <li>• Supports inverted DI status</li> </ul> <p><b>Digital Output</b></p> <ul style="list-style-type: none"> <li>• Channels: 8</li> <li>• Source Type: 10 ~ 35 VDC, 1 A (per channel)</li> <li>• Supports 5 kHz pulse output</li> <li>• Supports high-to-low and low-to-high delay output</li> </ul> <p><b>General:</b></p> <ul style="list-style-type: none"> <li>• Built-in Watchdog Timer</li> <li>• Isolation Protection: 2000 VDC</li> <li>• Power Input: Unregulated 10 ~ 30 VDC</li> <li>• Power Consumption: 2 W @ 24 VDC</li> <li>• Power Reversal Protection</li> <li>• Operating Humidity: 20 ~ 95 % RH (non-condensing)</li> <li>• Storage Humidity: 0 ~ 95 % RH (non-condensing)</li> <li>• Operating Temperature: -10 ~ 70° C</li> <li>• Storage Temperature: -20 ~ 80° C</li> </ul>
3	12 Channel Isolated Universal I/O Module	<ul style="list-style-type: none"> <li>• Communication: 10/100 Base-T Ethernet</li> <li>• Supports Protocol: Modbus/TCP, TCP/IP, UDP, HTTP, ICMP and ARP</li> <li>• Receives data from other modules with Peer-to-Peer and GCL function only and generates analog output signals</li> </ul> <p><b>Analog Input</b></p> <ul style="list-style-type: none"> <li>• Channels: 6 (differential)</li> <li>• Range: ±10 VDC, 0~20 mA, 4~20 mA</li> <li>• Input Impedance: &gt;10 MOhms</li> <li>• Accuracy: ±0.1% of FSR</li> <li>• Resolution: 16-bit</li> <li>• CMR @ 50/60 Hz: 90 dB</li> <li>• NMR @ 50/60 Hz: 60 dB</li> <li>• Span Drift: ±25 ppm/° C</li> <li>• Zero Drift: ±6 µV/° C</li> <li>• Isolation Protection: 2000 VDC</li> </ul> <p><b>Analog Output</b></p> <ul style="list-style-type: none"> <li>• Channels: 2</li> <li>• Range: 0 ~ 10 VDC, 0~20 mA, 4~20 mA</li> </ul>

		<ul style="list-style-type: none"> <li>• Accuracy: <math>\pm 0.1\%</math> of FSR</li> <li>• Resolution: 12-bit</li> <li>• Current Load Resistor: 0 ~ 500 Ohms</li> <li>• Isolation Protection: 2000 VDC</li> <li>• Drift: <math>\pm 50</math> ppm/<math>^{\circ}</math> C</li> </ul> <p><b>Digital Input</b></p> <ul style="list-style-type: none"> <li>• Channels: 2</li> <li>• Dry Contact: Logic level 0: close to GND Logic level 1: open</li> <li>• Wet Contact: Logic level 0: 0 ~ 3 VDC Logic level 1: 10 ~ 30 VDC</li> </ul> <p><b>Digital Output</b></p> <ul style="list-style-type: none"> <li>• Channels: 2</li> <li>• Sink type: Open collector to 30 V, 100 mA (maximum)</li> <li>• Power Dissipation: 300 mW for each module</li> </ul> <p><b>General:</b></p> <ul style="list-style-type: none"> <li>• Built-in Watchdog Timer</li> <li>• Isolation Protection: 2000VDC</li> <li>• Power Input: Unregulated 10 ~ 30 VDC</li> <li>• Power Consumption: 4 W @ 24 VDC</li> <li>• Power Reversal Protection</li> <li>• Operating Humidity: 20 ~ 95 % RH (non-condensing)</li> <li>• Storage Humidity: 0 ~ 95 % RH (non-condensing)</li> <li>• Operating Temperature: -10 ~ 50<math>^{\circ}</math> C</li> <li>• Storage Temperature: -20 ~ 80<math>^{\circ}</math> C</li> </ul>
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**FORMAT FOR QUOTATION SUBMISSION**

(In letterhead of the supplier with seal)

Date: \_\_\_\_\_

To:

\_\_\_\_\_  
\_\_\_\_\_

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
<b>Total Cost</b>							

Gross Total Cost (A+B): Rs. \_\_\_\_\_

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. \_\_\_\_\_ (Amount in figures) (Rupees \_\_\_\_\_ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of \_\_\_\_\_ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact No: \_\_\_\_\_