



Dibrugarh University Institute of Engineering & Technology,
Dibrugarh, Dibrugarh University, Dibrugarh, Assam- 786004., Assam

INVITATION LETTER

Package Code: TEQIP-III/2019/AS/duie/50

Current Date: 19-Aug-2019

Package Name: DUIET/TEQIP50/ME/IC

Method: Shopping Goods

To,

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.....
.....

Sub: INVITATION LETTER FOR DUIET/TEQIP50/ME/IC

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	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Gas Analyser	1	Director DUIET, Dibrugarh University, Dibrugarh, Assam, 786004	Yes
2	Installing pressure and crank angle sensors in VCR engine of IC lab and converting it to Open ECU	1	Director DUIET, Dibrugarh University, Dibrugarh, Assam, 786004	Yes

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 III** 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, initialling, 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 with valid PAN and GST number.
5. Quotation shall remain valid for a period not less than 60days 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:

Payment Description	Expected Delivery Period (in Days)	Payment Percentage
Satisfactory Delivery & Installation	15	90
Satisfactory Acceptance	15	10

10. Liquidated Damages will be applied as per the below:
Liquidated Damages Per Day Min %: 0.01
Liquidated Damages Max %: 10
11. All supplied items are under warranty of **36 months** from the date of successful acceptance of items and AMC/Others is **NIL**.
12. You are requested to provide your offer latest by **12:00 hours on 03-Sep-2019**.
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **Yes**
15. Testing/Installation Clause (if any) **Yes**
16. Performance Security shall be applicable: **10%**
17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Sealed quotation to be submitted/ delivered at the address mentioned below, **Dibrugarh University Institute of Engineering & Technology, Dibrugarh, Dibrugarh University, Dibrugarh, Assam- 786004., Assam**
19. We look forward to receiving your quotation and thank you for your interest in this project.


(Authorized Signatory)
Name & Designation

Annexure I

Sr. No	Item Name	Specifications																												
1	Gas Analyser	<table border="1"> <thead> <tr> <th>Parameters</th> <th>Range</th> <th>Resolution</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>0-15%</td> <td>0.001%</td> <td>±5%</td> </tr> <tr> <td>HC</td> <td>0-20000ppm</td> <td>1ppm</td> <td>±5%</td> </tr> <tr> <td>CO2</td> <td>0-20%</td> <td>0.01%</td> <td>±5%</td> </tr> <tr> <td>O2</td> <td>0-25%</td> <td>0.01%</td> <td>±5%</td> </tr> <tr> <td>NOx*</td> <td>0-5000ppm</td> <td>1ppm</td> <td>±5%</td> </tr> <tr> <td>Opacity (K)</td> <td>0-21.439m-1</td> <td>0.001m-1</td> <td>±0.1m-1</td> </tr> </tbody> </table> <p>Combined function in single equipment for above functions would be preferred.</p>	Parameters	Range	Resolution	Accuracy	CO	0-15%	0.001%	±5%	HC	0-20000ppm	1ppm	±5%	CO2	0-20%	0.01%	±5%	O2	0-25%	0.01%	±5%	NOx*	0-5000ppm	1ppm	±5%	Opacity (K)	0-21.439m-1	0.001m-1	±0.1m-1
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2	Installing pressure and crank angle sensors in VCR engine of IC lab and converting it to Open ECU	<p>Engine Specification: No. of Cylinders – 01 Type: Constant Speed, Power: 7hp@1500 rpm, Volume: 600 cc or more, Provision for VCR, 12.0 to 18.0</p> <p>Fuel system: Common Rail Direct Injection System –High Pressure Pump, Common Rail with Pressure Control Valve, Injector: Multi-hole, Peak & Hold, Injection Pressure: upto 500 bar, Sensors - Engine Temp, Camshaft Position Sensor, Crankshaft Position Sensor, Fuel Line Sensor.</p> <p>ECU system: Injection pressure (Upto 500 bar PID), Injection Timing, Injection Quantity Control, To calculate the quantity as output of PID module., Multiple injection (upto 3), Dual fuel injection control (Diesel and Secondary Fuel) from the diesel ECU, PC Based Software with CAN Communication, Industry Standard ECU, 12V, Hardware Provision for Lambda Sensor / Airflow Sensor for future upgrade.</p> <p>Secondary fuel control: Secondary Fuel Injection Duration Control, Secondary Fuel Injection Timing Control (Stop to TDC Angle, Compatible with CNG/H2/Methanol/LPG/Ethanol/Gasoline Fuel Systems with saturated injectors. Fuel system need not be in scope of supply.</p> <p>DAC: Combustion Analysis System, Software Combustion Pressure Sensor – PCB, Encoder – 360 ppr</p> <p>Air/Fuel/Load Measurement, Existing Sensors of VCR to be used.</p> <p>Miscellaneous: Integration of Engine with Dyno Controller and Dynamometer, Exhaust flange, Fuel filter, Oil filter, Air filter, Water inlet, Water Outlet.</p> <p>Warranty & others: Warranty for 3 Year, Supplier should have supplied same/similar equipment to at least three established IITs</p>																												

Specification for Gas Analyser and Installing pressure and crank angle sensors in VCR engine of I.C. Lab have approved

mpl
19/08/19
(Pranjal Sarmah)
I/C ME

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)
Total Cost							

Gross Total Cost (A+B): Rs. _____

(Rupees _____ amount in words) within the period specified in the Invitation for Quotations. _____ (Amount in figures)

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. _____