



GOVERNMENT ENGINEERING COLLEGE

(GOVERNMENT OF GUJARAT)

Sector -28, Gandhinagar-382028



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INVITATION FOR QUOTATION

TEQIP-II/2015/GJ1G07/Shopping/107 (2271)

21-Oct-2015

To,

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

- 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	Computerized Compression Ignition Engine Test Rig	1	62	Government Engineering College. Nr. Animal Vaccine Institute, Sector -28 Gandhinagar Gujarat	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 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 **45** 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 - 0% of total cost
Satisfactory Acceptance - 100% of total cost

10. All supplied items are under warranty of 24 months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **18:10** hours on **30-Nov-2015** .

12. Detailed specifications of the items are at Annexure I.

13. Training Clause (if any) **Yes**

14. Testing/Installation Clause (if any) **Yes**

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,
Government Engineering College Nr. Animal Vaccine Institute Sector-28 Gandhinagar

17. We look forward to receiving your quotation and thank you for your interest in this project.


(Authorized Signatory)

Name & Designation
Govt. Engg. College,
Sector-28, Gandhinagar.



Annexure I

Specifications for Computerised Diesel Engine Test Rig

Engine Test set up must be suitable for following capabilities :

- Run on Variable load and variable compression ratio (VCR).
- Provision for manipulation & indication of fuel injection timing.
- Provision for manipulation & measurement of fuel injection pressure.
- Electric starting arrangement
- On line results of: injection pressure, combustion Analysis, brake power, indicated power, frictional power, BMEP, IMEP, brake thermal efficiency indicated thermal efficiency, Mechanical Efficiency, volumetric efficiency, specific fuel consumption, A/F ratio and heat balance. Graph of cylinder Pressure v/s crank angle, cylinder Pressure v/s Volume, Heat release rate v/s crank angle. brake power vs brake thermal efficiency, brake power vs heat release rate etc

Engine	VCR Engine test setup 1 cylinder, 4 stroke, Diesel (Computerised) Standard Indigenous Make , New Brand (with certificate from original engine manufacturer) Type Single cylinder, 4 stroke Diesel, Water cooled, For fuel Diesel & Biodiesel Power 3.5 - 5 kW at 1500rpm, Engine compression ratio variable between 12:1 to 18:1 Injection timing variation 0-30 bTDC with electric start arrangement, battery and charger
Dynamometer	Type eddy current, water cooled, with appropriate capacity to test engine at full load or overload conditions.
Propeller shaft	Should be equipped with universal joints & safe guard
Air box	M S fabricated with orifice meter and manometer
Fuel tank	Capacity 12 to 15 litre . Separate tank for diesel/biodiesel made from material compatible with use of Diesel and Biodiesel with fuel metering glass column
Calorimeter	Type Pipe in pipe with Properly insulated with appropriate class insulating material Appropriate no. of points to measure relevant temperatures
Piezo sensor	Range 5000 PSI, with low noise cable
Crank angle sensor	Resolution 1 Deg, Speed 5500 RPM with TDC pulse.
Data acquisition device	USB-6210, 16/32-bit, 250kS/s.
Piezo powering unit	Model AX-409.
Temperature sensor	Type RTD, PT100 and Thermocouple, Type K
Temperature transmitter	Type two wire, Input RTD PT100, Range 0-100 Deg C, Output 4-20 mA and Type two wire, Input Thermocouple, Temp indicator fitted on control panel
Load indicator	Digital, Range 0-50 Kg, Supply 230VAC
Load sensor	Load cell, type strain gauge. range 0-50 Kg
Fuel flow transmitter	DP transmitter, Range 0-500 mm WC
Air flow transmitter	Air box with orifice and U tube manometer & also equipped with Pressure



	transmitter, Range (-) 250 mm WC
Software	Software compatible for Engine performance analysis
Rotameter	Acrylic Body Rotameter 35-400 LPH for Engine cooling 25-250 LPH for Calorimeter
Pump and piping	Monoblock Type Centrifugal , piping (flexible hose) to be done i) from water supply point available at distance of about 15 meters ii) drain line for about 5 meters
Also required	Supplier must provide, <ol style="list-style-type: none"> 1) training to the faculty members and laboratory assistant at institute. 2) Laboratory manual in THREE printed copies and one soft copy 3) Licensed copy of engine performance software (perpetual –life long validity) 4) PC set including printer. 5) Foundation for set up at the cost of supplier 6) Separate storage Tank for capacity 100 litres for Diesel & Biodiesel 7) 100 litre Diesel & 100 litre biodiesel (preferably 50 litre made from edible oil + 50 litre made from non-edible oil) 8) electrical wiring from our supply point, additional switches if required 9) erection and commissioning at his own cost
Computer	<p>Specifications:</p> <p>Processors : 2.66 GHz dual core or core 2 duo or dual core i3 processor Operating Systems : Genuine Windows® 8 (32 OR 64-bit) pre-installed and drivers will be supplied by the vendor, (with licensed CD or back up CD)</p> <p>Mother Board: Compatible with Above Specification. Chipset : Compactable with processor and mother board Form Factor: All-in-One Serial ATA Hard Drive: 500GB 7200 RPM SATA or 1TB 7200 RPM SATA8 Memory: 4 GB 1333 MHz DDR3 SoDIMM expandable Up to 6 GB memory Optical Drive: DVD Recordable Integrated Communications: 82578DM, 10M/100M/1000M Gigabit Ethernet WiFi: Wireless-N100 • Ultimate-N6300 Bluetooth: QMI 9WBM102QCE01Q2, Qcom QBT410UB-012 Ports: (6) High speed USB 2.0 (2 side/4 rear), (2) Side audio ports: headphone and microphone, (2) PS/2 ports, Serial2, Integrated display port, VGA-in, RJ-45, AC-in Slots: (1) Mini PCI-e x 1 slot, (1) Express card slot Bays: (1) Internal HDD Bay 3.5 inch, (1) Internal ODD Bay 5.25 inch Display/Monitor : Integrated 21 inch or 23-inch widescreen (16:9) Graphics Card: GMA HD (integrated) Power Supply: 150 W 85 plus (auto-sensing)</p>



	Keyboard: USB Mouse: USB Optical Wheel Mouse
Printer	<p><u>Printer Specification:</u></p> <p>Print Technology : Laser Printer Print Resolution : Up to 600x600 dpi for both Black and Color Duplex Technique : Automatic (Standard) Print Speed : Minimum 20 pages per minute (for both Black and Color) Connectivity : Minimum 1 Hi-Speed USB 2.0 port; 1 Built-in Ethernet 10/100 Ethernet; 1 Wireless 802.11 b/g/n RAM : 2 MB Operating System : Compatible with Windows 8.1 (32-bit and 64-bit), Windows 8 (32-bit and 64-bit), Windows 7 (32-bit and 64-bit), Windows Vista (32-bit and 64-bit), Supported Paper Size: A4, Letter, legal etc. Automatic two-sided printing</p>



FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

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)	In %	In figures (B)
Total Cost								

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) _____ 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: _____

