



GOVERNMENT ENGINEERING COLLEGE

(GOVERNMENT OF GUJARAT)

Sector -28, Gandhinagar-382028



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INVITATION FOR QUOTATION

TEQIP-II/2015/GJ1G07/Shopping/517/318

Dt: 11-3-2016

To,

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	Single Cylinder Four Stroke Spark Ignition Engine Test Rig	1	42	Government Engineering College, Nr. Animal Vaccine Center, Sector-28, Gandhinagar-382028	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 **12** months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **18:10** hours on **29-March 2016** .

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
Sector-28, Gandhinagar.



FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

To: _____

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)
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) (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: _____



The test rig is to be designed to provide self-contained facility for teaching spark Ignition engine principles. The unit is to be instrumented so that the following experiments can be carried out.

- AIR INTAKE MEASUREMENT
- FUEL CONSUMPTION MEASUREMENT
- BHP MEASUREMENT
- BRAKE THERMAL EFFICIENCY

The Engine Test Rig Facilitate To Evaluate The Following:

- 1). Performance at various throttle position
- 2). BHP measurement from no load to full load

Specifications of the Engine

- New Brand Single Cylinder, Air Cooled, Four Stroke Petrol Engine (indigenous make) with CNG kit (engine can be fuelled with Petrol as well as CNG)
- Cubic Capacity : 198.88 cc
- Power: approx. 9.0 kW @6000 RPM on Petrol OR approx. 7.5 kW @6000 RPM on CNG
Engine must be ready to use with sufficient engine oil.

Instrumentation

The following instrumentation is to be provided.

1. **For measurement of intake air to engine :** an air tank mounted on an iron stand fitted with a suitable orifice plate, manometer 'U' tube manometer for air flow rate .
2. **For measurement of fuel consumption :**
For Petrol Mode:
Fuel Measuring Arrangement consists of fuel tank, burette and suitable cock all mounted on a suitable frame work and panel board and supplied with fuel piping from fuel tank to Engine
For CNG Mode:
Digital Weighting Scale of capacity 100 kg for CNG. Appropriate CNG kit with cylinder. CNG cylinder must be hydro tested with necessary certification.
3. **Engine Speed Indicator- Digital**
4. **Digital Temperature Indicator-Multi point indicator with thermocouples.** Thermocouple for measuring the exhaust gas temperature with pocket connection with instruments suitably mounted on a panel board
5. **Digital Voltmeter, Ammeter**

Dynamometer

The loading device used should be either Electric OR Eddy Current Dynamometer of matching capacity to load the engine up to its full capacity.

Controls

The test rig is to be arranged for manual control of the engine with electric start (with appropriate battery) arrangement for engine starting & manual throttle control.

Separate Instruments to be supplied along with set up:

- Psychrometer (for measuring temperature of atmospheric air)
- Non-Contact Type Digital Tachometer
- Non-Contact type Digital Temperature Measuring Gun (Min. zero degree Centigrade and Max Temperature about 540 Degree Centigrade)

The test set up should be mounted on welded steel base plate with appropriate anti vibration mounting. If foundation is required, supplier has to prepare the foundation at his own cost.

Scope of Supply and work:

Supply of setup with all above said items to college, Installation, Commissioning and demonstration to faculty members/ staff of the institute with soft and hard copy of instruction/lab manual.

