

PROCUREMENT OF GOODS UNDER NATIONAL SHOPPING PROCEDURES

COEP/TEQIP-II/CoE-SRES/March2016/NS/13

for

Retrofitting of Francis Turbine for data acquisition

Bid Price: Nil/-

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PACKET NO :COEP/TEQIP-II/ CoE-SRES/ March2016 /NS /13

INVITATION FOR QUOTATIONS FOR SUPPLY OF

Retrofitting of Francis Turbine for data acquisition

1. You are invited to submit your most competitive quotation for the following goods: -

Sr.	Title /Name	Brief description [Attach separate annexure if	Quantity
No	of the	necessary for detailed specifications	
	equipment		
	/System		
1	Retrofitting	Retrofitting of Francis Turbine for data	
	of Francis	acquisition	Refer to the
	Turbine for	Please refer to the Annexure A	Annexure A
	data		
	acquisition		

The schedule is as follows

Date of inviting the quotations	23/03/2016	
Last date of submitting the sealed	04/04/2016 [upto 3:00 pm]	
quotation to TEQIP office, COEP		
Opening of the quotations	04/04/2016 [4:00 pm]	
Validity of quotation	Min 45 days	
Delivery Period	4 weeks from the acceptance of PO	

2. College of Engineering has received the grants for establishing Center of Excellence in Smart Renewable Energy System under MHRD's Technical Education Quality Improvement Program-Phase II. The said procurement is for this center. This project is World Bank sponsored project. This procurement is being carried out using the National Shopping Process, and will observe the guidelines of Shopping under TEQIP-II.

3. **Bid Price**

- a) The contract shall be for the full quantity as described above and in the annexure. Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price. However, break- up of the basic price and taxes/duties shall be indicated clearly.
- c) The bidders will be evaluated on the basic price.

- d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- e) The Prices should be quoted **in Indian Rupees** only.
- 4. Each bidder shall submit only one quotation.

5. Validity of Quotation

Quotation shall remain valid for a period not less than 45 days after the deadline date specified for submission.

6. **Evaluation of Quotations**

The purchaser shall evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) are properly signed ; and
- (b) conform to the terms and conditions, and specifications.

The Quotations would be evaluated considering all items together in this packet.

7. Award of contract

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

7.1 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.

7.2 The bidder whose bid is accepted shall 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.

- 8. 80 % Payment shall be made immediately after delivery of the goods. Remaining 20 % payment will be made after successful commissioning and testing of the equipment/system.
- 9. Three years commercial warranty/ guarantee shall be applicable to the supplied goods.
- You are requested to provide your offer in sealed envelope latest by 04th April
 2016. Please indicate "Quotation for Retrofitting of Francis Turbine

for data acquisition, CoE-SRES/ March2016 /NS /13" at the right hand corner of the sealed envelope"

- 11. The bidder has to supply the material within the prescribed date. A penalty as per norms will be imposed for delayed supply upto 6 weeks. Any further delay will automatically terminate the purchase order/ contract.
- 12. The supplier requires supplying the store exactly as per the specifications and will be responsible to replace the defective supplies at his risk and cost.
- 13 The Supplier should submit deviation statement if any. The quotations simply mentioning "asper your specification and cost" shall be rejected.
- 14. The supplier should arrange for free demo / working trial of equipment (if required) at the Institute / Manufacturers place as the case may be at suppliers cost. The Purchase Order would be placed subject to satisfactory demonstration of the equipment.
- 15. Commissioning / Installation is at suppliers cost unless otherwise specified.
- 16. Conditional quotation will not be accepted.
- 17. We look forward to receiving your quotations and thank you for your interest in this project.

Name: Prof. B. N. Chaudhari Principal Investigator Center of Excellence-Smart Renewable Energy System

Annexure A

Sr.	Item	Quantity
No		-
1	Pressure Transmitter	01
	Wetted Part: Stainless Steel	
	Range: 0-6 bar,	
	Supply: 10 – 30 V DC	
	Output: 4-20 mA	
	Accuracy: ≤ 0.1 % of Full Range	
	Make: Wika / Siemens or Equivalent Imported	
2	Vacuum Pressure Transmitter	01
	Wetted Part: Stainless Steel	
	Range:- 1 to 0 bar,	
	Supply: 10 – 30 V DC	
	Output: 4-20 mA	
	Accuracy: ≤ 0.1 % of Full Range	
	Make: Wika / Siemens or Equivalent Imported	
3	Load Cell& Transmitter	
	Type: S type Load Cell	
	Range: 0 – 50 Kg	
	Supply: 10 V DC	01
	Output: 2/3 mv / V	
	Accuracy: ≤ 1 % of Full Range	
	Transmitter: Input 0-30 mV, Output 4-20 mA	
4	RPM Sensor & Transmitter	
-	Type: Inductive Proximity Switch	
	Range: $0 - 6000 \text{ RPM}$	
	Supply: $10 - 30 \text{ V DC}$	01
	Output: PNP	01
	Accuracy: $\leq 1 \%$ of Full Range	
	Transmitter: Input Proximity Switch, Output 4-20 mA	
5	Pressure Transmitter	
3	Wetted Part: Stainless Steel	
	Range: 0-0.5 bar,	
	Supply: $10 - 30 \text{ V DC}$	01
	Output: 4-20 mA	VI
	Accuracy: ≤ 0.1 % of Full Range	
	Make: Wika / Siemens or Equivalent Imported	
6	Data Scanner	
	No. of Channels: 8	
	Input: 4-20 mA,	
	Display: 3 ¹ / ₂ Digit Display with Scrolling between channels	0.1
	Supply: 230 V AC	01
	Communication: Serial communication on RS232 /	
	Modbus	
7		
7	Data Acquisition Software	01
	 LabVIEW based software for online display of 	

Detailed technical specifications for Retrofitting of Francis Turbine for data acquisition

	 following parameters – Torque,Speed, Turbine Inlet & Outlet pressure, Water flow rate The software should be able to calculate following performance parameters – Power Developed, Mechanical Efficiency, Turbine Speed vs Power Graph, Flow vs Mechanical Efficiency Graph, Head vs Power Graph 	
8	Computer Personal Computer, Processor Core i3, RAM 4 GB, 500 GB Hard disk with all accessories & 600 VA UPS	01
9	Dynamometer Type: Swinging Field Electric Dynamometer Output: 3.5 kW @ 3000 RPM Load bank: Air Heaters, Capacity 3.5 kW	01