

## INVITATION FOR QUOTATION

TEQIP-III/2018/bbek/Shopping/4

12-Oct-2018

### 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	Air Compressor 1 HP, 4CFM with automatic switch	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
2	CASCADE CONTINUOUSLY STIRRED TANK REACTOR (Constant Head Feed System)	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
3	ISOTHERMAL CONTINUOUSLY STIRRED TANK REACTOR (Constant Head Feed System)	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
4	ISOTHERMAL PLUG FLOW TUBULAR REACTOR (Coiled Tube Type & Constant Head Feed System)	1	30	Department of Chemical Engineering, BBEC, Kokrajhar,	Yes

				Assam	
5	ISOTHERMAL SEMI-BATCH REACTOR (Constant Head Feed System)	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
6	PACKED BED REACTOR (Compressed Air Feed System)	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
7	RTD STUDIES IN CONTINUOUSLY STIRRED TANK REACTOR (Constant Head Feed System)	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
8	RTD STUDIES IN PLUG FLOW TUBULAR REACTOR (Straight Tube Type & Constant Head Feed System)	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
9	Temperature and Pressure Effects	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	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, 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 - 80% of total cost**

**Satisfactory Acceptance - 20% of total cost**

10. All supplied items are under warranty of **36** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **14:00** hours on **12-Nov-2018** .
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,  
Chandrapara Kokrajhar (BTAD) Assam-783370
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>Item Name</b>	<b>Specifications</b>
1	Air Compressor 1 HP, 4CFM with automatic switch	Power 4 HP Voltage 220/230 V Speed = 1100 RPM Air flow = 360 L/min Tank = 90 L Wt = 90 Kg
2	CASCADE CONTINUOUSLY STIRRED TANK REACTOR (Constant Head Feed System)	"Reactor (3Nos.) : Material Stainless Steel, Capacity 1 Ltr.(Approx.) • Agitator : Material Stainless Steel Impeller and shaft coupled with FHP motor • Impeller : Material Stainless Steel, 4 square bladed (1 No.) • Baffles : Material Stainless Steel, (4 Nos.) Detachable, symmetrically place • Feed Tank

		(2Nos.) : Material Stainless Steel, Capacity - 20 Ltrs. (Approx.) • Feed Circulation : By Polypropylene magnetic pump • Flow Measurement : Rotameter-2Nos. (One each for Reactants). • Piping : Stainless Steel and PVC/PU pipe. Reactor (3Nos.) : Material Stainless Steel, Capacity 1 Ltr.(Approx.) • Agitator : Material Stainless Steel Impeller and shaft coupled with FHP motor • Impeller : Material Stainless Steel, 4 square bladed (1 No.) • Baffles : Material Stainless Steel, (4 Nos.) Detachable, symmetrically place • Feed Tank (2Nos.) : Material Stainless Steel, Capacity - 20 Ltrs.
3	ISOTHERMAL CONTINUOUSLY STIRRED TANK REACTOR (Constant Head Feed System)	"Reactor : Material Stainless Steel, 2Ltr (Approx) • Water Bath : Material Stainless Steel, Double wall, insulated with Ceramic Wool • Heater : Nichrome wire Heater • Agitator : Material Stainless Steel Impeller and shaft coupled with FHP motor • Impeller : Material Stainless Steel, 4 square bladed (1 No.) • Baffles : Material Stainless Steel, (4 Nos.) Detachable, symmetrically place • Feed Tank (2Nos.) : Material Stainless Steel, Capacity - 20 Ltrs. • Feed Circulation : By Polypropylene magnetic pump • Flow Measurement : Rotameter-2Nos. (one each for Reactants). • Piping : Stainless Steel and PVC/PU pipe. • Temp. Sensor : RTD PT- 100 type • Control panel comprises of : Digital Temp. Controller : PID Controller, 0-199.9°C (For Hot Water Bath)"
4	ISOTHERMAL PLUG FLOW TUBULAR REACTOR (Coiled Tube Type & Constant Head Feed System)	"Reactor : Material Stainless Steel, Capacity (0.6-0.7) Ltrs. (approx.) (Helical Coiled Tube Type) • Water Bath : Material Stainless Steel, Double wall, insulated with Ceramic Wool. • Heater : Nichrome wire Heater • Stirrer (Water Bath) : Material SS Impeller and shaft coupled with FHP motor • Feed Tank (2Nos.) : Capacity 20 Ltrs. (approx.) • Feed Circulation : By Polypropylene magnetic pump • Flow Measurement : Rotameter-2Nos. (One each for Reactants). • Piping : Stainless Steel and PVC/PU

		pipe. • Temp. Sensor : RTD PT- 100 type • Control panel comprises of : Digital Temp. Controller : PID Controller, 0-199.9°C (For Water Bath)"
5	ISOTHERMAL SEMI-BATCH REACTOR (Constant Head Feed System)	"Reactor : Material Stainless Steel, Capacity 2 Ltrs. (approx). • Water Bath : Material Stainless Steel, Double wall, Insulated with Ceramic Wool. • Heater : Nichrome wire Heater • Agitator : Material Stainless Steel Impeller and shaft coupled with FHP motor • Impeller : Material Stainless Steel, 4 square bladed (1 No.) • Baffles : Material Stainless Steel, (4Nos.) Detachable, symmetrically placed • Feed Tank (1No.) : Material Stainless Steel, Capacity - 20 Ltrs. • Feed Circulation : By Polypropylene magnetic pump. • Flow Measurement : Rotameter. • Piping : Material Stainless Steel and PVC/PU pipe. • Stop Watch : Electronic • Temp. Sensor : RTD PT- 100 type • Control panel comprises of : Digital Temp. Controller : 0- 199.9°C, RTD PT-100 type (For Water Bath) With Standard make on/off switch, Mains Indicator etc."
6	PACKED BED REACTOR (Compressed Air Feed System)	"Reactor Column : Material Borosilicate Glass Volume 1.2 Ltrs. (Approx). • Packing : Rasching Rings, Material Borosilicate Glass. Size 6-8 mm (approx) • Feed Tank (2Nos.) : Material Stainless Steel, Capacity 20 Ltrs. • Feed Circulation : By compressed air. • Flow Measurement : Rotameter 2Nos. (One each for Reactants). • Piping : Stainless Steel and PU Pipe. • Pressure Regulator : 0-2 Kg/cm <sup>2</sup> • Pressure Gauge : Bourdon type 0-2 Kg/cm <sup>2</sup> "
7	RTD STUDIES IN CONTINUOUSLY STIRRED TANK REACTOR (Constant Head Feed System)	"Reactor : Material Stainless Steel, capacity 2Ltrs. (Approx.) • Agitator : Material Stainless Steel Impeller and shaft coupled with FHP motor • Impeller : Material Stainless Steel, 4 square bladed (1No.) • Baffles : Material Stainless Steel (4Nos.) Detachable, symmetrically placed • Feed Tank :

		Material Stainless Steel, Capacity - 20 Ltrs. (Approx.) <ul style="list-style-type: none"> <li>• Feed Circulation : By Polypropylene magnetic pump</li> <li>• Flow Measurement : Rotameter.</li> <li>• Piping : Stainless Steel and PVC/PU pipe."</li> </ul>
8	RTD STUDIES IN PLUG FLOW TUBULAR REACTOR (Straight Tube Type & Constant Head Feed System)	"Reactor : Material Borosilicate Glass, OD-32mm, ID-25mm, Length-1200mm • Feed Tank : Material Stainless Steel, Capacity 20 Ltrs. • Feed Circulation : By Polypropylene magnetic pump • Flow Measurement : By Rotameter • Piping : Stainless Steel and PVC/PU pipe • Stop Watch : Electronic"
9	Temperature and Pressure Effects	50 ml SS316 Fixed head vessel with lid rated for 5000 psig at 350 deg centigrade, 1.3" ID 2.3" Depth SS Magnetic drive 16 in-lb torque ¼" NPT port with plug, 1/8 HP Variable speed motor with 1700 rpm, gas release valve, gas inlet valve, liquid sampling valve, 5000 psig gauge, rupture disc, type K thermocouple, Heater 4848 PID controller RPM display Power 230V 50 Hz.

**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: \_\_\_\_\_