

INVITATION FOR QUOTATION

TEQIP-III/2018/bbek/Shopping/2

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	Ball Mill	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	YES
2	BATCH CRYSTALLIZER	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	YES
3	Cyclone scrubber	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
4	Cyclone separator	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes

5	Flocculation test unit	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
6	Forced draft tray dryer	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
7	Froth floatation Cell	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
8	Jaw crushe	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
9	Leaf filter	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
10	Natural draft tray Dryer	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
11	Plate and frame filter press	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
12	Roll crusher	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes

13	ROTARY DRYER	1	30	of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
14	Rotary vacuum filter	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
15	Sedimentation studies apparatus	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
16	STEAM DISTILLATION SET-UP	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
17	Vacuum Dryer	1	30	Department of Chemical Engineering, BBEC, Kokrajhar, Assam	Yes
18	Vibrating screen	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

Sr. No	Item Name	Specifications
1	Ball Mill	Ball Mill (variable speed) with balls (15 Kg), Model: KCMO 103 B, Specifications Ball mill : Material MS, Dia. 275 mm, Length 350 mm, thickness 4 mm (approx) Discharge Chute : Suitable size. Feed Size : 6 mm (approx.) Product Size : 200 mesh (approx.) Drive : 1 HP motor, variable speed coupled to Reduction Gearbox. Product receiver : Material Stainless Steel of suitable size. Control Panel Comprises of: RPM measurement : By proximity sensor with Digitalindicator Energy measurement : Electronic Energy meter RPM Measurement : Digital RPM Indicator, Non Contact type with Proximity sensor. The set-up is fitted with required guards. An

		ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on arigid structure painted with industrial PU Paint
2	BATCH CRYSTALLIZER	Crystallizer: Jacketed Type, Material Stainless Steel, Cap. 2 Ltrs. With conical bottom Stirrer: FHP, Variable Speed. Heater: Nichrome wire heater Cooling Water Tank: Material Stainless Steel, Capacity 30 litre fitted with Pump. Flow measurement: By Rotameter for cooling water. Pump : FHP. Receiving Tank : Material Stainless Steel, Capacity 2 litre with SS sieve Temp. Sensors : RTD PT-100 type Control panel comprises of: Digital Temp. Indicator: 0-199.9°C with multi-channel switch With Standard make on/off switch, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus. The whole set-up is well designed and arranged on arigid structure painted with industrial PU Paint.
3	Cyclone scrubber	Cyclone scrubber, Model: KCMO-122, Specification: Cyclone Scrubber : Made of Stainless Steel, suitable capacity Water Circulation : FHP Pump, standard make Centrifugal Blower : Compatible capacity. Impurity Mixing system : Special arrangement with compressed air for mixing of impurities in air. Sump Tank : Made of Stainless Steel capacity 50 Ltr (approx.) Control Panel comprises of : Standard make on off switch, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on arigid structure painted with industrial PU Paint
4	Cyclone separator	Cyclone separator, Model: KCMO-121, Specifications: Cyclone Separator : Material Stainless Steel, Dia 100mm (approx.) Solid Discharge Silo. : Material Stainless Steel, suitable capacity with discharge control valve. Blower : ID Fan Blower with 1 HP provided motor Air flow measurement : Pitot with manometer. Solids Collector : Transparent PVC container fixedwith Cyclone. Fine Dust Collector : Bag of Nylon cloth fixed on exit of air Control Panel comprises of : Standard make on off switch, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental

		procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on arigid structure painted with industrial PU Paint.
5	Flocculation test unit	Flocculation test unit, Model: KCEBE - 105, Flocculation Vess els Material : Borosilicate Glas s Capacity : 1 Ltrs. Quantity : 6 Nos. Stirrer : SS Shaft and impeller, 250 RPM (max). Impellers : Paddle Type, 50 mm x 15 mm, Removable (6 Nos.) Control panel comprising of Standard make On/off switch, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set- up is well designed and arranged on a rigid structure painted with industrial PU Paint.
6	Forced draft tray dryer	Forced draft tray dryer (with data logging facility), KCMT - 142, Drying Chamber : Insulated double wall chamber, Size (20 x 20 x 25) cm Weight analysis : By Load cell, compatible capacity Hot Air Circulation : By forced draft fan, Arrangement is done to vary the air flow rate. Air flow measurement : By Differential Pressure Transmitter with orifice Heating Chamber : Compatible capacity. Heater : Nichrome wire heater. Temperature Measurement : By Temperature transmitter- 2Nos., Output 4-20 mA. Control panel comprises of : Digital Temp. Controller : PID Controller, 0-199.9°C (For heating Chamber) With Standard make on/off switch, Mains Indicator etc. An ENGLISH instruction manual will be provided along with the Apparatus The whole set-up is well designed and arranged on arigid structure painted with industrial PU Paint.
7	Froth floatation Cell	Froth floatation Cell, Model: KCMO 125, Flotation Chamber : Material Stainless Steel, Compatible capacity. Agitator : Stainless Steel Impeller with Stainless Steel shaft coupled to FHP motor. Diffuser : Material Stainless Steel holding the impeller. Froth Collecting Tank : Material Stainless Steel, Capacity 15 Ltrs. Air Supply : By Air pump, Compatible capacity. Control Panel comprises of : Standard make on off switch, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure

		<p>Painted with industrial PU Paint</p>
8	Jaw crusher	<p>Jaw crusher, model: KCMO - 101, Jaw : Size 100 x 150mm., Feed Hopper : Suitable capacity. Feed Size : 50mm (approx.) Product Discharge Size : (5-15) mm (approx.) Drive : Electric motor, 3 HP, Single phase, Control Panel Comprises of: Energy measurement : Electronic Energy meter. Starter : 3 HP, Single Phase. MCB : For overload protection. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint</p>
9	Leaf filter	<p>Leaf filter, Model: KCMO - 133, Leaf filter : Dia. 200mm with SS Mesh & filter cloth on both sides. Slurry Tank : Stainless Steel, capacity 50 Ltrs. (approx.) Agitator : Stainless Steel Impeller with SS Shaftcoupled to FHP Motor and Reduction Gear Box Filtrate receiver : Made of Stainless Steel with water level gauge Vacuum pump : Standard make coupled to FHP motor. Control Panel comprises of : Standard make on off switch, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.</p>
10	Natural draft tray Dryer	<p>Natural draft tray Dryer, KCMT- 141/DL (with data logging facility) Drying Chamber : Material Stainless Steel, Size (30 x 30 x 30) cm insulated by Ceramic wool and housed in a MS Chamber. Maximum Temperature : 120°C. Heater : Nichrome wire heater Weight analysis : By load cell Temp. Measurement : By Temperature transmitter- 1No., Output 4-20 mA Control panel comprises of : Digital Temp. Controller : PID Controller, 0-199.9°C (For Drying Chamber) With Standard make on/off switch, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.</p>
11	Plate and frame	<p>No. of frame : 6 No. of Plates : 7 Size : 200 mm x 200 mm.</p>

	filter press	<p>Material : Acrylic Filter Medium : Filter Cloth Filtrate collection tray : Material Stainless Steel, Suitable size. Filtration rate measurement : Using measuring tank. Material Stainless Steel Slurry Feed tank : Material Stainless Steel, Capacity 40 Ltrs. Slurry Tank Agitator : Stainless Steel Impeller with SS Shaft coupled to FHP Motor and Reduction Gear Box Slurry Feed Pump : Gear Pump with FHP motor. Piping system : GI and PVC. Pressure Measurement : By Bourdon type pressure gauge-2Nos. Overhead water tank : Material Stainless Steel, Capacity 25 Ltrs. Control Panel comprises of : Standard make on off switch, Mains Indicator etc. Screw Jack arrangement for tightening and removing of frames easily. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint. (Installation included)</p>
12	Roll crusher	<p>Roll crusher, Model: KCMO - 102Rolls : Material Chilled Steel Dia. 200mm, Width 100mm. (approx.) Drive : 2 HP motor coupled with Reduction Gear Box to give 48-70 RPM Feed Hopper : Suitable capacity. Max feed Size : 6-8 mm. Product Size : 1-2 mm. Control Panel Comprises of: Energy measurement : Electronic energy meter. Starter : 2 HP, Single Phase, MCB : For overload protection. The set-up is fitted with required guards and product collection tray. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on arigid structure painted with industrial PU Paint.</p>
13	ROTARY DRYER	<p>Rotary dryer is a unit in which drying is done by forced draft action created by hot air. The set-up consists of a long revolving cylindrical shell slightly inclined towards the outlet. The shell is fitted with two brackets for support. Air from a blower passes through a heating chamber serves the purpose of drying agent. An arrangement for rotating the dryer drying agent. An arrangement for rotating the dryer drying agent. shell at low RPM is provided by means of an electrical motor and a reduction gearbox</p>
14	Rotary vacuum	<p>Filter Drum : Material Stainless Steel, Dia. 250 mm, Length 350 mm. Mesh : Material Stainless Steel Filter : Canvas Cloth No. of</p>

	filter	Zones : 6 Nos. Drive for Drum : FHP motor coupled to a Reduction Gear Box Trough : Material Stainless Steel, Compatible capacity. Trough Agitator : Material Stainless Steel, drivenby FHP motor with Reduction Gearbox. Slurry Tank : Stainless Steel, capacity 75 Ltrs. Slurry Pump : Gear Pump with ½ HP motor Slurry Tank Agitator : Stainless Steel Impeller with SS Shaft coupled to FHP motor and Reduction Gear Box Filtrate Receiver : Material Stainless Steel, Capacity 10 Ltrs. (2 Nos.) with water level gauge Vacuum Pump : Liquid Ring type coupled to a 1 HP Motor Piping : GI and PVC size ½ Control Panel comprises of : Standard make on off switches, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on arigid structure painted with industrial PU Paint (Installation included)
15	Sedimentation studies apparatus	Sedimentation studies apparatus, Model: KCEBE - 106, Cylinders : Five Graduated cylinders (Mounted vertically) Material : Borosilicate Glass ID : 50 to 51 mm Length : 1 m Stop Watch : Electronic Collecting Tanks : Capacity 2 Ltrs. (3 Nos.) The set-up has the back lighting arrangement. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set- up is well designed and arranged on arigid structure painted with industrial PU Paint.
16	STEAM DISTILLATION SET-UP	Distillation Vessel : Material Stainless Steel, Capacity 3 Ltrs. (approx.) Jacketed Type, insulated with ceramic wool and Aluminium cladding. Flow measurement: Rotameter for cold water. Steam Generator : Made of Stainless Steel, provided with Pressure Gauge & Level Indicator, Safety valve & insulated with ceramic wool and Aluminium cladding. Separating Chamber: Material Borosilicate Glass, Capacity 2 Ltrs. (approx.) Condenser: Material Stainless Steel, Shell & Tube type Distillate tank: Material Stainless Steel, Capacity 5 Ltrs. (approx.) Heater: Nichrome wire heater Temp. Sensors: RTD PT-100 type Control panel comprises of: Digital Temp. Controller: PID Controller, 0-199.9°C (For Steam Generator) Digital Temp. Indicator: 0-199.9°C, with multi-channel switch. With Standard, make on/off switch, Mains Indicator etc. An ENGLISH instruction

		<p>manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.</p>
17	Vacuum Dryer	<p>Vacuum Dryer (With vacuum pump), Specificationa: Drying chamber: material stainless steel insulated by ceramic wool, heater: nichrome wire heater, vacuum pump: 0.5 HP with all required accessories, Temperature sensor: RTD PT – 100 type, Control panel comprises of digital temperature controller: PID controller (For drying chamber) with standard make on/off switch, mains indicator etc., removable tray (1 no.) will be provided. The whole set-up is well desinged and arranged on a rigif structure painted with industrial PU paint</p>
18	Vibrating screen	<p>Vibrating screen, Model: KCMO-111, Specification: Vibrating Screen (3 Nos.) : Width 380mm, Length 600mm. Mesh : Size - 2.7mm, 9.5mm and 6.3mm (Approx.) Drive : Eccentric shaft coupled to motor Feed Hopper Compatible Capacity with arrangement to control feed. Collecting bins : 4 Nos. of suitable capacity. Control Panel comprises of : Standard make on off switch, Mains Indicator etc. An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus : The whole set- up is well designed and arranged on arigid structure painted with industrial PU Paint</p>

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. _____

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: _____