



BIDHAN CHANDRA KRISHI VISWAVIDYALAYA

Indo-German R & d Project (IGSTC), "CirCulTex"

Dharampur, Vill-Palasi, P.O.- Majhipara, P.S.- Bizpur,
Dist- North 24 Parganas, West Bengal, Pin-743145

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Ref. No.: CurCulTex (IGSTC)-BCKV-Tender-2

Date: 29/10/2021

NOTICE INVITING e-TENDER e-Tender ID : 2021_BCKV_348800

Principal Investigator of the Indo-German R&D Project (IGSTC), "CirCulTex", (Project Code 11077) is inviting e-tenders from competent and *bonafide* manufacturers/vendors/ parties/distributors/dealers/agents having registration of GST for supply, installation, demonstration and maintenance of the following item to the above mentioned project, being implemented under the Directorate of Research, BCKV, Kalyani and located at RIDF-XXIII (FBMC), BCKV, Dharampur, Vill-Palasi, P.O.- Majhipara, P.S.- Bizpur, Dist- North 24 Parganas within 21 days (up to 5.00 pm) from the date of publication, as per specifications appended below.

Sl. No.	Item	Specification	Quantity
1.	Aquaponics system (1,000 sqft)	<ul style="list-style-type: none"> As per BOQ enclosed. Supply and installation of Twenty Five Thousand Liter (25 KL) Fish Tank, Aquaculture tank foundation & build civil works, Fish tank supply, drainage and aeration pipelines, Aeration supply for fish tank and DWC grow-beds, Aquaponic Filters (Radial Filter and Bio - Filter), Recirculating Aquaculture System (Filter Setup), 5kW Automatic recirculating water heating unit, Grow-bed Channels (528 sq.ft.) & sump civil work, Pumping setup, Grow-bed accessories, Oxygen concentrator for advanced Bio-filtration, Electrical & lighting system, Automation & control systems, Integrated filtration & conditioner unit, SAAS (Software-as-a-service) based fullstack Farm Monitoring Application (FMA), AMC (3 years), etc. Rate should include all charges (GST+others), including the cost of one experienced person/worker (to be deputed/engaged by the agency who got work order from BCKV) for on-site day-to-day (atleast 24 days/month) operations, maintenance and support service for consecutive 3 years. 	One (01)

Terms and Conditions:

* Quoted price should be included of the costs of GST, accessories and all other charges (delivery, installation, demonstration, etc.), if any. It should be in INR (No provision of foreign currency transaction).

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- * Technical and financial bids to be submitted separately.
- * The bids should be prepared and submitted with validity period of minimum 6 (six) months.
- * The bidders must stipulate the delivery period of the same within 7 days from date of issuing supply orders and to specified place of delivery at office of working days.
- * Any deviation from required specifications and standards will be treated as cancellation of bids at any stage and also cancellation of supply order, even after delivery, without further communication/clarification and no claim will be entertained thereof.
- * Written commitment or document must be submitted with tender for warranty (atleast 3 years) and on-site free service (for 3 years).
- * EMD of Rs. 11,000/- (Rupees Eleven Thousand only) to be submitted in favour of 'Bidhan Chandra Krishi Viswavidyalaya' either in off-line mode or in online mode. For off-line mode, original Bank Draft payable at SBI, Kalyani Branch (IFSC: SBIN0001082) to be submitted to the Principal Investigator prior to receive supply order and photocopy copy of the same to be uploaded during submission of tender. Proper documents/certificates to be submitted for EMD exemption claim, if any.
- * Challan and bill should be submitted in triplicate and bank account details (Name, A/C No., IFSC & MICR codes) of the beneficiary to be mentioned in bill.
- * Bill will be processed after delivery, installation and successful demonstration.
- * The vendor's experience on supplying to Government / Semi Government organization is required.
- * Supporting documents (as may be applicable): (a) Bid papers should accompany authorization certificate from original manufacturer, GST registration, latest IT return, PAN and other statutory documents, if any. (b) Scanned copy (self attested) of the original supporting document in favour of the specification –claim for each item must have to be uploaded separately. (c) User list along with certificate from reputed users also need to be uploaded.
- * The Viswavidyalaya reserves the right to accept or reject any tender without showing reason.
- * Decision of the University authority shall be treated as final and binding.

Thank you,


(DR. SANJIT DEBNATH)

BOQ: Double Recirculating Aquaponics System (DRAPS)

Sl. No.	Item Description	Quantity	Units	Amount (Rs.) (incl. of all taxes)	Amount (in words)
1	Twenty Five Thousand Liter (25 KL) Fish Tank	1	Units		
	a) PPGI corrugated roofing sheets of 1 mm thickness	325	Sq. Ft.		
	b) GI structural frame tubing, rectangular profile pipes	275	Feet		
	c) GI fasteners : M12 – M8 nuts, washers and bolts 120 GSM cold galvanized , self tapping drill screws	Lumpsum			
	d) Geo-textile PP fabric 120 GSM for substrate lining	675	Sq. Ft.		
	e) 500 micron UV stabilized HDPE protective liner	380	Sq. Ft.		
	f) 650 GSM PVC wrinkle-free aquatic tank tarpaulin	675	Sq. Ft.		
2	Aquaculture tank foundation & build civil works Cement, 20/10 mm stone chips, sand, 4.8-6 mm TMT re-bars, bricks and miscellaneous requirements	Lumpsum			
3	Fish tank supply, drainage and aeration pipelines 3" drain, 1½" supply & ½" aeration lines and valves	1	Units		
	a) 3" drain pipe line : pipes, valves, couplings & sieves	1	Units		
	b) 1½" supply pipe line : S-40 pipes, valves & coupling	1	Units		
	c) ½" air manifold : pipes, valves, grommets & fittings	1	Units		
4	Aeration supply for fish tank and DWC grow-beds 1 HP Vortex ring blower X 2, 2" one - way valves, UPVC manifold pipes, fittings & valves, aeration tubing, take-offs, regulators, disc bubblers & wiring	1	Units		
5	Aquaponic Filters : Radial Filter and Bio - Filter Radial filter with combined gravel filter for removal of bulk solid, bio-filter with enriched O2 aeration & high surface area bio-media and output line strainer	1	Units		
6	Recirculating Aquaculture System : Filter Setup Integrated four compartment filter with RDSF, bio- filter, media filter & sump with inline UV sterilizer	1	Units		
	a) Rotating drum screen filter(30u) with auto backwash	Sub-Units			
	b) Enriched & atomized O2 fed HSA biological filter				
	c) Foam & gravel based mechanical fine media filter				
	d) Aerated sump with sensor probe holder & injectors				
	e) 55 W ultraviolet light based inline sterilizer/clarifier	1	Units		
7	5kW Automatic recirculating water heating unit 220V tankless water heater with temperature control	1	Units		
8	Grow-bed Channels(528 sq.ft.) & sump civil work Six DWC grow channels 22' X 4' on 5' high platform	1	Units		

Sl. No.	Item Description	Quantity	Units	Amount (Rs.) (incl. of all taxes)	Amount (in words)
	Cement, 20/10 mm stone chips, sand, 6-8 mm TMT re-bars,wires,bricks and miscellaneous requirements				
9	Pumping setup : 1 HP Hi-Flow Pumps X 1, 1 HP regenerative pumps X 2, ½ HP utility regenerative pump X 1, valves, fittings, PVC manifolds & wiring	4	Units		
10	Grow-bed accessories : Grow media (vermiculite, perlite, hydroton, hydroponic sponges, rock-wool etc), grow pots : 2” netted pots, and floating rafts	Lumpsum			
11	Oxygen concentrator for advanced Bio-filtration PSA based oxygen concentrator, working pressure 35 PSI , flow rate ~ 30 lpm, 82 % O2 concentration	1	Nos.		
12	Electrical & lighting system: Conduits, wires, fuses MCB's, junction boxes, relays, voltmeters, switches. SW.boards, LED grow-light system, SMPS, cables, nuts,bolts & fasteners, panels and needed accessories	1	Units		
13	Automation & control systems : Central controller system, PCB boards, IoT modules,sensors (temp , ORP,TDS,TSS,pH,O2,level etc), actuators (servos, solenoids, relays), MCU, IP enclosures, connectors, wires, interfaces and meters, microprocessors, relay & keypads, BT, Wifi & connect modules, TFT GUI	1	Units		
14	Integrated filtration & conditioner unit : Three stage integrated filtration unit with pressurized inline water filter,iron filter & softener unit with backwash	1	Units		
15	Build Costs: Labor, Fabrication and Transports Labor, supervision, fabrication and tooling charges, local and intercity transport and miscellaneous costs				
16	SAAS (Software-as-a-service) based fullstack Farm Monitoring Application (FMA) with data monitoring modules, data collection modules and OLAP/OLTP database powered farm data fetching capability.				
17	Wages of one worker at hi-tech polyhouse (15 days/month x 36 months)				
18	AMC: charges of maintenance and support service (36 months)				
Total Amount (in figure): Rs.		Total Amount (in words): Rupees			

Quoted Amount (in figure):	Rs.
Quoted Amount (in words):	Rupees
LESS (in figure) : %	LESS (in word) : percent