



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-3

Date: 29/10/2021

NOTICE INVITING e-TENDER e-Tender ID : 2021_BCKV_348801

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.	Hydroponics system – Vertical NFT (1,200 sqft)	<ul style="list-style-type: none"> As per BOQ enclosed. Supply and installation of High strength metal A-frames for NFT channels, NFT hydroponic PVC grow channels for 2" pots, Grow-bed accessories, Hydroponic Filters (Radial Filter and Bio-Filter), Aerated sump and reservoir system, 3kW Automatic recirculating water heating unit, Pumping setup, Oxygen concentrator for advanced Bio-filtration, Electrical & lighting system, Automation & control systems, Integrated filter/condition & storage 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)

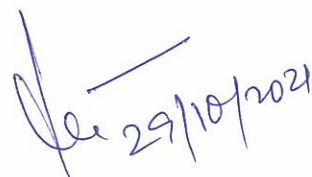
Terms and Conditions:

* 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. 9,000/- (Rupees Nine 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: Hydroponics System (1200 Sq.Ft. Vertical NFT)

Sl. No.	Item Description	Quantity	Units	Amount (Rs.) (incl. of taxes)	Amount (in words)
1	High strength metal A-frames for NFT channels: 10'X2.5' NFT-units, Total grow area = 1200 s.ft.	48	Units	Rs. 94,500	INR Ninety four thousand and five hundred only
	a) 1"MS square tubes, 1/2" MS round tubes, T-sections	2950	Feet		
	b) Tooling pieces (cutter discs, bits etc) & weld sticks	Lumpsum			
	c) Red oxide metal primer and high-gloss enamel paint	52	Liters		
2	NFT hydroponic PVC grow channels for 2" pots: 10' long, 4" diameter PVC pipes with 15/20 grow- sites each, NFT end-caps, grommets, supply piping, takeoffs, taps, through hulls, drain piping and fittings	264	Units	Rs. 2,77,200	INR Two lakhs, seventy seven thousand, and two hundred only
3	Grow-bed accessories: a) Grow media (vermiculite, perlite, hydroton, hydroponic sponges, rock-wool etc), grow pots: 2" netted pots and planting supports. b) Grow bed characters: 5 nos. (total 75 ft) portable three layer hydroponics grow bed in three separate section with net pot and one on-ground soil bed (control/check plot).	Lumpsum		Rs. 39,500	INR Thirty nine thousand and five hundred only
4	Hydroponic 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	Rs. 42,775	INR Forty two thousand, seven hundred and seventy five only
5	Aerated sump and reservoir system, with 55 W UV sterilizer and water parameter control system with integrated sensor probe and injector panels	1	Units	Rs. 24,500	INR Twenty four thousand and five hundred only
6	3kW Automatic recirculating water heating unit: 220V tankless water heater with temperature control	1	Units	Rs. 5,070	INR Five thousand and seventy only
7	Pumping setup: 1 HP Hi-Flow Pumps X 2, 1/2 HP regenerative pumps X 2, valves, fittings, venturi jet injectors, PVC manifolds, level switches and wiring	4	Units	Rs. 29,600	INR Twenty nine thousand and six hundred only
8	Oxygen concentrator for advanced Bio-filtration: PSA based oxygen concentrator, working pressure 35 PSI, flow rate ~ 30 lpm, 82 % O2 concentration	1	Nos.	Rs. 38,600	INR Thirty eight thousand and six hundred only

Sl. No.	Item Description	Quantity	Units	Amount (Rs.) (incl. of taxes)	Amount (in words)
9	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	Rs. 64,775	INR Sixty four thousand, seven hundred and seventy five only
10	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	Rs. 44,877	INR Forty four thousand , eight hundred and sixty seven only
11	Integrated filter/condition & storage unit: Three stage filter with pressurized inline water filter, iron filter & softener unit with backwash, 500L loft tank	1	Units	Rs. 31,900	INR Thirty one thousand and nine hundred only
12	Build Costs: Labor, Fabrication and Transports- Labor, supervision, fabrication and tooling charges, local and intercity transport and miscellaneous costs			Rs. 53,500	INR Fifty three thousand and five hundred only
	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.				
	Wages of one worker at hi-tech polyhouse (15 days/month x 36 months)				
	AMC: charges of maintenance and support service (36 months)				
Total Amount (in figure): Rs.		Total Amount (in words): Rupees			

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