



# 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.: CirCulTex (IGSTC)-BCKV-Tender-1

Date : 29/10/2021

## NOTICE INVITING e-TENDER

**e-Tender ID : 2021\_BCKV\_348799**

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.	Hitech Polyhouse (3,000 sqft)	<ul style="list-style-type: none"> <li>As per BOQ enclosed.</li> <li>Supply and installation of Storm resistant and aerodynamic GI poly-house structural frame with standard materials (GI structure, UV stabilized film, insect screen, shade screen, etc.) of 3,000 sqft hitech polyhouse, including Double entry/exit door (2M x 1M, code safe lock), Foundation, walls and miscellaneous civil works, Poly-house cladding, top/side shading and apron, Thermal management/curtain automated shading, Automatic four way anti-leak HP fogging system, Automatic sensor based fan &amp; pad cooling system, Electrical &amp; lighting system, Automation &amp; control systems, CCTV and surveillance setup, Water supply, storage, irrigation &amp; drain system, SAAS (Software-as-a-service) based fullstack Farm Monitoring Application (FMA), AMC (3 years), etc.</li> <li>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.</li> </ul>	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. 10,000/- (Rupees Ten 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: High-Tech Polyhouse (3,000 sq. ft.)**

Sl. No.	Item Description	Quantity	Units	Amount (Rs.) (incl. of all taxes)	Amount (in words)
1	<b>Storm resistant and aerodynamic GI poly-house structural frame</b> (Dimensions: Grow-area = 80' X 38', Height = 16' at center & 12' at the edges)	1	Units		
	a) Galvanized Iron structural members pipes : 60mm OD/3mm thick, 76mm OD/2mm thick, 60mm OD/2mm thick, 50mm OD/2mm thick, 48mm OD/2mm thick, 42mm OD/2mm thick, 33mm OD/2mm thick, 27mm OD/2mm thick, 21 mm OD	925	Meters		
	b) GI pipe clamps 76/60/48/42/33mm OD full and half	484	Nos.		
	c) GI brackets and cleats 120 GSM cold galvanized	Lumpsum			
	d) GI fasteners : M12 – M6 nuts, washers and bolts 120 GSM cold galvanized , self tapping drill screws	Lumpsum			
	e) 50 cm perimeter/120 GSM/2mm GI connect gutters	1	Nos.		
	f) Aluminum profile runners for poly - film fixation	320	Meters		
	g) 2.2mm plastic coated zig-zag poly-film spring insert	650	Meters		
2	<b>Double entry/exit door (2M x 1M), code safe lock</b> Door frames 2mx1m, fasteners& fittings ( nuts,bolts washers), PCC flooring,FRP sheets and coded locks	1	Units		
3	<b>Foundation, walls and miscellaneous civil works</b> Cement, 20/10 mm stone chips, sand, 4.8-8 mm TMT re-bars,bricks and miscellaneous requirements	Lumpsum			
4	<b>Poly-house cladding, top/side shading and apron</b> HDPE top shading net,50 % shading, UV stabilized, 150 GSM, 35% UV stabilized,100GSM side shades, 40 mesh UV stabilized insect net,HDPE apron sheet	750	Sq.Mt.		
5	<b>Thermal management/curtain automated shading</b> Top thermal net : 50% aluminate, 100 GSM power crank operated, truss to truss, Side curtains : 1.5 mt, electric motors,GI wires,fittings frames & fasteners	380	Sq.Mt.		
6	<b>Automatic four way anti-leak HP fogging system</b> PVC Sch 40 pipes and fittings, 80 micron atomizers temp & humidity sensor,valves,filter,pump & panels	1	Units		
7	<b>Automatic sensor based fan &amp; pad cooling system</b> Smart energy and water efficient climate controller	2	Units		
	a) 1.5 HP, 54"Exhaust fan with fanpad house & louver	2	Units		
	b) 1.8 meters cooling pad wall with 100 mm thick cell -ulose pads, with a smart PVC water supply system	22	Sq.Mt.		
	c) Control system with manual/automatic interfaces & digital controller and temp & humidity sensor units	1	Units		
8	<b>Electrical &amp; lighting system:</b> Conduits, wires, fuses MCB's, junction boxes, relays, voltmeters, switches. Switchboards, LED lighting system, SMPS, cables, nuts,bolts & fasteners, panels and needed accessories	1	Units		

Sl. No.	Item Description	Quantity	Units	Amount (Rs.) (incl. of all taxes)	Amount (in words)
9	<b>Automation &amp; control systems</b> : Central controller system, PCB boards, IoT modules, sensors ( temp , humidity, light, pH, CO2, lvl etc ), actuators (servos, solenoids, relays ) PLC's, IP enclosures, connectors, wires, interfaces and meters, microprocessors, relay & keypads, BT, Wifi & connect modules, TFT GUI	1	Units		
10	<b>CCTV and surveillance setup</b> : 4-CH CCTV, DVR, modem, router, SMPS, cables, connectors, zip ties, fasteners, motion sensors, interfaces & accessories	1	Units		
11	<b>Water supply, storage, irrigation &amp; drain system</b> Includes water supply drainage and irrigation setups to provide parameter controlled filtered water supply	1	Units		
	a) PVC piping (Supplies) : ½ “-2” uPVC Sch 40 pipes	85	Meters		
	b) PVC fittings : elbow, tee, cross-tee, reducer, nipples	Lumpsum			
	c) Pumping System : pumps, valves, fittings & gauges	1	Units		
	d) Drainage and rain harvest : RPVC pipes and fittings accumulator, bilge pumps, valves and level switches	1	Units		
	e) Water storage : Loft tank 1000 Liters, level switches	1	Units		
	f) Integrated filtration & conditioner unit : pressurized water filter, iron filter & softener unit with backwash	1	Units		
	g) Parameter controls : water heater, pH controller, UV disinfection, fertilizer injector and aeration systems	1	Units		
12	<b>Build Costs: Labor, Fabrication and Transports</b> Labor, fabrication, tooling, transport and misc. costs				
13	<b>SAAS</b> (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.				
14	<b>Wages of one worker</b> at hi-tech polyhouse (15 days/month x 36 months)				
15	<b>AMC: including</b> charges of maintenance and support service (36 months)				
<b>Total Amount (in figures): Rs.</b>		<b>Total Amount (in words): Rupees</b>			

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