



BIDHAN CHANDRA KRISHI VISWAVIDYALAYA

DIRECTORATE OF EXTENSION EDUCATION

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222/143
 19.01.23

From: Prof. Umesh Thapa
 Director

No. DEE/ 641/LTC-57
 Date : 18.01.2023

E-TENDER NOTICE

Rates are invited from the reputed and experienced Agency/Makers/Bidders for supplying and installation of polyhouse for Gerbera cultivation at Hooghly Krishi Vigyan Kendra Farm, Chinsurah, Hooghly under ATMA Research project of Hooghly KVK, Chinsurah, Hooghly during 2022-23 through E-Tender.

Sl. No.	Name of the items	Specification	Quantity	Remarks
1	Supply & Installation of Naturally Ventilated Poly House	Size- 12mtr. X 8 mtr. Area- about 100 sq.mtr. Ridge height- 6 mtr. Made with 200 micron UV plastic, side walls covered with insect proof net, Frame made with GI Pipes with base foundation with all necessary fittings like GI profile, GI spring, clumps, etc.	1 No.	Rate to be quoted with all charges including GST, transport cost, etc.

Technical specifications of Naturally Ventilated Poly Green house:

Sl. No.	Items	Description/Specifications																				
1	Product	Naturally Ventilated Greenhouse																				
2	Size	100 sq.mtr (8 m x 12m)																				
3	Bay size	4m x 4m, Width of greenhouse should be at least 35 % of the desired length.																				
4	Ridge height	6m																				
5	Ridge Vent	80-90 cm opening fixed with 40 mesh nylon insect screens																				
6	Gutter height	4 m from floor area																				
7	Gutter slope	2% slope need be provided in civil foundation work/ structure																				
8	Gutter material	High quality Plastic Sheet 1400-micron UV Stabilized 600mm width single length without joint																				
9	Structural design	The structural design needs to be sound enough to withstand wind speed minimum 100 km/hr and minimum load of 25 kg/m ² . There should be provision for opening one portion at either side for entry of small tractor/power tiller for intercultural practices. The firm needs to highlight design features and list of greenhouse clients.																				
10	Structure	Complete structure made of high quality galvanized tubular pipes or equivalent section conforming Indian Standards having wall thickness 2mm, structural member should be joined with fasteners properly.																				
11	Sizes of the structural members	<table border="1"> <thead> <tr> <th>Members Name</th> <th>Outside Diameter (mm)</th> <th>Thickness (mm)</th> <th>Wt. Per meter length (kg)</th> </tr> </thead> <tbody> <tr> <td>Columns (Big & All Side)</td> <td>60</td> <td>2</td> <td>2.90</td> </tr> <tr> <td>Hockey</td> <td>42</td> <td>2</td> <td>2.10</td> </tr> <tr> <td>Foundation Pipe</td> <td>48</td> <td>2</td> <td>2.30</td> </tr> <tr> <td>Top Purlins</td> <td>33</td> <td>2</td> <td>1.60</td> </tr> </tbody> </table>	Members Name	Outside Diameter (mm)	Thickness (mm)	Wt. Per meter length (kg)	Columns (Big & All Side)	60	2	2.90	Hockey	42	2	2.10	Foundation Pipe	48	2	2.30	Top Purlins	33	2	1.60
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Librarian
 17.01.23

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		High Line	42	2	2.10
		Top Arches	42	2	2.10
		Cross Tie of Arches	33	2	1.60
		Bottom Chord	42	2	2.10
		Curtain Runner	21	2	1.08
		Flap Control Pipe	21	2	1.08
		Curtain Shaft	21	2	1.08
12	Brackets & cleats	Made from the section like angel, channel, I beams and should be cold galvanized with minimum coat of 120 GSM.			
13	Fasteners	All nuts & bolts must be of high tensile strength and galvanized.			
14	Self-Tapping Screw	These screws should be used to assure extra safety. They prevent dislocation of clamps from its place. Distance between tapping screw specially for fixing profile to gutter should be 30-40 cm.			
15	Clamps	Different type of clamps like 76/60/48/42/33mm OD Full/half are used which should be made from min 42mm wide and 2mm thick GP Coil having minimum 120 GSM Galvanization.			
16	Aluminium Profile	C type profile made from Alloy Aluminium should have-high strength with light weight (approx. 650 grm/nos), smooth edges, curve bottom proper for 1" to 2.5" pipes, Proper Channel for spring and suitable for double spring locking 0.9mm thick, Self Drilling screw should be fixed on profile every 40 cm along the full length of the profile.			
17	Foundations	Insert GI pipes of minimum 48 mm OD or more to have foundation depth of 75 cm or more depending upon soil type and prevailing wind condition, grouted with cement concrete mixture of 1:2:4 using telescopic insertion of column.			
18	Door	One hinge doors of size 1 m width & 2.5 m height made in plastic sheets mounted in suitable strong frame.			
19	Cladding material	UV stabilized 200-micron transparent Plastics films conforming Indian Standards (IS 15827: 2009), multi-layered, anti-drip, anti-fog, anti- sulphur, diffused, clear and having minimum 85% level of light transmittance.			
20	Spring Insert	Zigzag high carbon steel with spring action wire of 2-3 mm diameter must be inserted to fix shade net into Aluminium Profile.			
21	Curtains and insectscreen	Roll up UV stabilized 200-micron transparent plastic film as curtains need be provided up to 3.0 m height on all sides having manual type gear box operated crank mechanism. However, provision for manual opening and closing of curtains need also be provided.			
22	Side (Bottom) Apron	UV Stabilized HDPE Woven fabric, 150 GSM thick for a height of 60 cm to L m above ground and 40 cm buried below ground vertically and 20 cm horizontally.			
23	Insect Proof Nets	UV stabilized monofilament HDPE material insect proof net with 40 - 50 mesh, white in colour on all four sides of side ventilation portion & top ventilator with a light transmission 75-78 to Air transmission 72 %.			
24	Shade net	UV stabilized 50% shading net with manually operated mechanism for expanding and retracting. Size of net should be equal to the floor area of greenhouse.			



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Terms and conditions:

1. Quotation should be uploaded **within 10 (Ten) days of publishing the notice latest by 5.00 pm.**
2. **Preparation of bids:** The tender should be uploaded in two bids system (i.e. technical bids and financial bids) with validity for a period of 6 (six) months. Technical bids will be evaluated by the indenter and the other expert member.
3. Rate should be given inclusive of Taxes if any, transport charges, etc.
4. Bidders should have uploaded valid PAN Card, Current Trade License, GST Certificate, at least one year experience certificate in the field and also uploaded any documents related to this work.
5. The Financial Of the respective bidders will be considered only if the tender qualifies in the technical bid. The decision of Evaluation Committee / LTC will be final and binding all concerned and no challenge against such decision will be entertained.
6. **EMD:** The bidders have to deposit an **EMD of Rs. 2,000/- (Rupees two thousand only) through the process of RTGS/NEFT transaction by e-Banking system during the time of applying. To avail the system bidders have to login to the e-Procurement Portal of the Gov. of W.B. <http://wbtenders.gov.in> by using login ID and Password.**
7. The successful bidder will remain liable to supply, install and demonstrate the prepared unit to the satisfaction of the office as per specification.
8. For any clarification for installation, bidders may visit the site at Hooghly KVK, Chinsurah, Hooghly during office hours only.
9. The payment will be made after supply and installation of the units in good condition and after submission of bills.
10. The office reserves the right to accept or reject any or all of the quotations without assigning any reason whatsoever at any stage of the tender process.

Sd/-

Director of Extension Education
BCKV

Date: 18.01.2023

Ref. No.: DEE/641/1(10)/LTC-57

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Director of Extension Education
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