Phone No: 0467 2260632 Email: rarspil@kau.in



KERALA AGRICULTURAL UNIVERSITY Regional Agricultural Research Station, Pilicode KasaragodDist – 671310

No.B2-2837/2021

Dated: 05.10.2021

TENDER NOTICE

quotation is to be addressed	Regional Agricultural Research Station	
Designation and address of officer to whom the	The Associate Director,	
acceptance	0 0 0 31/12/2021	
Date up to which the rates are to remain firm for	Up to 31/12/2021	
Last date and time for opening of tender	20/10/2021 3.30 PM	
·	20/10/2021 3.00 PM	
Last date and time for receipt of tender	20/10/2021 3.00 PM	
Amount of EMD to be paid	Rs.1500/-	
GST (18%)	Rs.72/-	
Tender Cost	Rs. 400/-	
Tender Number	B2-2837/2021	

Sealed competitive tenders are invited to construct a Fan and pad poly house in the land possessed Malabar Kaipad Farmers Society under RKI initiative.

Specifications:

Technical Standards for Fan and pad cooling system Poly house:

SI No.	Item	Departmental Description
1	Size	100sqm
2	Shape	Aero Dynamic along all four sides with curvature shaped hockey pipes of 48 mm OD GI Pipes with a view to reduce the impact of wind and consequent damage of poly house structure Gutter Orientation- North South and may change according to wind direction PAD should be in wind direction and must have covered elevated balcony for shade
3	Structure	Hot Dip Galvanized Tubular Structure of BIS STANDARDS, Galvanization of the structural members should not be less that 300 GSM (grams per square meter)

	Withstand to wind	Structure should withstand	to minimun	n wind velo	city of 80	
	velocity	miles per/hr or 130 km/hr	or 36 meter i	per second	berry of 00	
	Sizes of the structural	miles per/hr or 130 km/hr or 36 meter per second				
	members		0			
	memoers	Members Name	Outside	Thickness	Wt.per	
		Wiembers Name	Diameter	(mm)	meter	
			(mm)		length (kg	
		Columns	76	2	3.75	
	The second se	Top Purlins	48 (Ridge)	2	2.30	
		Gutter Purlins	42/43	2	2.10	
	-		(centre)			
		Top Arches of the truss	42	2	2.10	
		Bottom Chord of the truss	60	2	2.85	
		Horizontal (GI pipe)		-	4.03	
		Top Chords and trusses	48/43	2	2 20/2 10	
		member	+0/45	2	2.30/2.10	
	-	Internal Bracings of the truss-	33			
		Pipe structural members to be	33	2	1.60	
		fitted in plated meta 1				
		fitted in plated nuts, bolts and	The second			
		washers without welding				
		Coridors/Balconies	60	2	2.85	
		Curtains Runner	42	2	2.10	
		Flap control pipe	21	2	1	
		Curtain Shaft	27	2	1.30	
		Cross Bracing	33	2	1.60	
		Note: Welded pipes should not	he used for atm	Loturo anoti	1.00	
		bottom pipe of 8 m length.	oc used for stre	icture erectio	n except	
	-	ettem pipe of 6 in lengui,				
	Columns	76.00.2				
		76 OD, 2 mm thick				
~	Purlin	48 mm OD/2.0 mm thick rid	dge and $42/4$	3 mm OD/	2 mm thick	
		for centre	0			
Trusses						
	Trusses	Bottom horizontal 60 mm C	D/2 mm th:	1 OID		
	Trusses	Bottom horizontal 60 mm C	D/2 mm thic	ck G.I Pipe	, top	
	Trusses	chords and truss members 4	D/2 mm thic 8 mm OD/ a	ck G.I Pipe nd 43mm (, top OD 2.0 mn	
	Trusses	chords and truss members 4 thick	8 mm OD/ a	nd 43mm (OD 2.0 mn	
	Trusses	chords and truss members 4 thick	8 mm OD/ a	nd 43mm (OD 2.0 mn	
	Trusses	chords and truss members 4 thick - Bracing 32 cm OD/1.8 mm	8 mm OD/ a thick GI Pipe	nd 43mm (DD 2.0 mn	
		chords and truss members 4 thick Bracing 32 cm OD/1.8 mm to be fitted in plated nuts an	8 mm OD/ a thick GI Pipe d washers w	nd 43mm (e structural ithout weld	DD 2.0 mn members	
4	Clamps and Nut Bolts	chords and truss members 4 thick Bracing 32 cm OD/1.8 mm to be fitted in plated nuts an Well compatible GI Clamps	8 mm OD/ a thick GI Pipe d washers w	nd 43mm (e structural ithout weld	DD 2.0 mn members	
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		to wind direction
	(a) Gutter Height	4 m to 4.5m
	(b) Gutter slope	1 to 1.5 % to be provided in civil structural work
	Ridge Height/Centre	Minimum 5 to 6.5 meter
8	Fasteners	Cold Galvanized well compatible M6 to M10 bolts & nuts 50
		to 150 mm long with plain washers as per requirement and
		with the best quality plating to have good anti-corrosiveness.
9	Ploy film	Technical Specifications of polythene should be as per Indian standard (IS 15827:2009)
		Polythene should be properly UV stabilized at least 3 years. Thickness of polythene should be minimum 200 micron (0.2
		mm)
		Properties:
		Optional properties:
		.UV blocking/ Anti virus
11	Poly fixing	C type profile made from Alloy Aluminum should have- high
		strength with light weight- (approx 220-250 gm/rmtrs),
		smooth edges, curve bottom proper for 1.25" to 3" pipes,
		proper channel for spring and suitable for double spring
		locking 0.9 mm thick. Self Drilling Screw should be fixed on
		profile every 40 cm along the full length of the profile.
13	Entrance	Double door entry Doors should be made of from EDD 1
	- be an at the tender form	Double door entry, Doors should be made of form FRP sheets
	weite and the standing of	or polycarbonate sheets. Opening and closing is either hinged
		or sliding. Min.width of door should be 1M and min height
		2M. The door area should have 50 mm PCC Flooring over 75 mm thick sub base
14	Civil work	
		Wall on fan side will be 35 mm thick and 80 cm high and wall
		on pad side will be 23 cm thick & 100 cm high from ground
		level in cm 1:6 with required foundation. All the walls will be
		plastered in cm 1:4 top and sides
		80 cm to 1 m wide and 10 cm thick footpaths made of cement
	a provide the provide	concrete ratio of 1:2:4 should be provided as per the
15	Electrical fittings:	requirements.
1.5	Lieunear fittings.	Conduit and wiring as required for connecting light, fan,
16	Climate control	motor and pumping to main electrical supplies.
10		stell which and harmship security deputy or we also be state
4	System	
-	Fan-pad System	-Numbers of Fan depends upon side of Fan-fad house and it
	1310 Kasaraali musaa	should be capable of exhausting air volume in one minutes
	S ATTACK STREAM	-Exhaust Fans-50" however it depends upon size of fan-pad
		house with louvers 1.5 HP – 3 phase ISI standard electric
		motor
	* 5	-Cellulose cooling pads of 1.8 meter height with 100 mm/150
		mm thickness covering the area properly, PVC water
		distribution system, screen/disc filter, valve and pumps etc.
		-Control panel with manual operation, temp and humidity
	- Contract the second	sensors
		-The necessary digital controller with sensory device &
		accessories of standard quality as per requirement should be
		provided to operate the fan & pad system for controlling
		temperature & humidity inside the Green house
3	Fogging System	-In consist of four way anti leak fogger 28 lph flow rate
		, and to be 20 ipit now rate

	(fogger spacing along the lateral and lateral spacing) and particle size 80-100 micron, 16 mm lateral class-3, PVC pipe	
	6 kg/cms, valves, filter, pump panel with volt meter, MCB,	
	relay etc. complete application rate 3mm/hr	

Terms and conditions

1. Tender form

The Tender form shall be downloaded from the following link in the internetwww.kau.in/tenders OR rarspil.kau.in/tenders. The same should be submitted duly signed along with other documents.

The cost of tender form, GST and EMD will be accepted by way of separate DDs in favour of Associate Director, Regional Agricultural Research Station, Pilicode, Pin 671310.

- Earnest Money Deposit: An EMD of Rs.1500/- should be remitted by separate DD drawn in favour of Associate Director, Regional Agricultural Research Station. Pilicode Pin-671310.
- The cost of tender form, GST and EMD will be accepted by way of separate DDs in favour of Associate Director, Regional Agricultural Research Station, Pilicode, Pin 671310.

Agreement:-

- 4. The tender should be accompanied by an Agreement in Kerala stamp paper worthRs.200/-(Rupees Two hundred only) in theformat that can be downloaded from thewebsite<u>www.kau.edu/tenders</u> OR<u>rarspil.kau.in/tenders</u>.
- 5. The sealed cover containing the tender documents should be super scribed as "Tender for Fan and Pad green house "The cover should contain the DDs for tender cost, GST, EMD and the Agreement as mentioned above.
- 6. The successful tenders should execute an agreement in Kerala Stamp paper worth Rs.200/-(Rupees Two hundred only) and furnish a security deposit of 5% of cost of the rate quoted in the form of term deposit/bank guarantee/demand draft drawn in favourof Associate Director, Regional Agricultural Research Station, Pilicode, Pin 671310,Kasargod,District payable at the State Bank of India, Kayyur (Branch code SBTR000573),when directed from this office.
- 7. The rate,tax and other charges if any should be separately stated.
- 8. The Associate Director has the right to accept or reject any or all of the offers without assigningany reason.
- 9. The successful tenderer shall initiate the work/supply the item within one week of award and should finish the supply within one month.
- 10. If any hartal/strike/any unexpected holiday occurs on the date of opening of tender, the tender will be opened at the same time on the next working day.
- 11. All the rules and regulation applicable to government tender will be applicable to this tender also.

Special Conditions

- 1. Tender insisting payment in advance either full or part for releasing the documents through bank are liable for rejection.
- 2. Leaflets/brochures containing technical features on the different models of the items quoted should be attached with the tender.
- 3. Payment will be made after satisfactory delivery/ installation and demonstration of the Item/equipment.
- 4. Details of warranty offered should be clearly stated in the tender details of maintenance service contract offered after expiry of normal warrantee and after-sales service facilities available should be indicated.
- 5. The under signed reserves the authority to accept or reject any or all of the offers for any particular item without assigning any reason whatsoever.
- 6. The decision of the under signed in tender procedures will be final and binding.

*Enquiries if any may be mailed to <u>rarspil@kau.in</u> or contact 04672260632/04672260450 during office hours.

Sd/-Dr.Vanaja T Associate Director

To:1.Notice Board/KAU website

2. Panchayath Office, Pilicode/Cheruvathur

3. Nileshwaram Municipality.

//Approved for issue//

Section Officer. 3