

NAGALAND UNIVERSITY (A Central University Established by an Act No. 35 of Parliament 1989) School of Agricultural Sciences & Rural Development Medziphema Campus – 797 106 (Nagaland)

SAMN/ADMN/PRJ/E-174/21 -

18.07.2022

NOTICE INVITING TENDER

Sealed rate quotation are invited from reputed manufacturers/contractors to construct Hi-Tech Shade Net House (300 sqm)under DBT sponsored project *"Collection ,Conservation,Morphological-Phenological Characterization on Citrus germaplasm of NER "* under the department of Horticulture, SASRD, Nagaland University, Medziphema. The lists of items with technical specifications are available at Nagaland University Website (www.nagalanduniversity.ac.in)

The last date for submission of the tender is 19.08.2022 during office hours. Incomplete tender shall be summarily rejected. The University authority reserves the right to accept and reject any tender without assigned reasons whatsoever.

Sd/-Pro-Vice Chancellor Equipment : 1

Name of Item–Shade net house

Nos of chamber – 1 unit

Details Specification

SI	Specification		Unit
no			
1	Area	300 sqm	
2	Dimension	20 x 15	1 unit
3	Shape	Arch / ventilated	
4	Size	6 mtr center height, 4.5 mtr side height	
5	Buffer Room	Buffer room with Double door system (size 6'x3'), Lockable top & bottom tracks, jambs, flashings & installation hardware. Covering with 6mm diffused polycarbonate *All the control system, switching unit etc. in side the room. *Suitable lighting system with exhaust fan in this facility.	1 unit
6	Constructing Materials	All structures, Rafters, Perlins, Trusses complete are to made of hot dip galvanized iron. The structure made with the following combination of GI pipe (thickness 2.3mm). All G.I. steel and Design as per I.S 875 Standards to take withstand of wind speed km/ hour. Main column = 50mm Gable column=32mm Bottom Chord=25mm Top big Chord=25mm Top small chord=25mm Top Gutter purlin=32mm	1 unit
7	Working Bench	Rust free working station for associated work of citrus	1 unit

		project.	
8	Internal shading system	Manual rollable shading with 50% shade net for protection from extra heat with all rolling accessories.	1 unit
9	humidity sensor	The proposed chambar will be equiped with humidifier (as desired up to 80%) or de humidification fan.	1 unit
10	Civil construction/work	Foundation wall: Across the complete side of Green house including the Buffer/ Pre- entry room will be as per norms of PWD. Foundation wall- For all side of the chamber 1' below to the surface and 1' above earth surface as kick board 9" widh. Frame base block height 2' with plaster. Floor will be filled by earth up to 1' from the surface with compression. Foot path 1m wide and 10cm thick made by interlocking paving blocks. Drainage system- Provision for proper drainage with slope will be provided.	1 Unit
11	Over head tank , sprinkler & fogging system	Over head tank of 1000 lt capacity with 1 HP motor, all connecting pipe to the house & all accessories of sprinkler irrigation & fogging system.	1 Unit
12	Cladding	Roof will be covered by 50% UV Stablizedshade net. side also will be covered by 50% UV stabilized shade net & to be fitted by Alluminium profile, Zig-zag spring , SDS etc along with other accessories	1 unit

13	Electrical Panel	Electrical items such as pump. Lighting, voltmeter, amp-meter etc will have electrical panal(push Button) wich comply with CPRI guideline.	1 Unit
14	Control panel (Light & temperature control system)	The complete proposed facility with a programmable control system (PLC) should be equipped with the following facility: *Programmable photoperiodic timer Clock Accurancy: +/- 2.5 Sec/day@ 20 Degree centrigrade Programming: 1 channel/ 7 days with 16 memory locations Adjustment: In minutes Running Revers: 1200 to 1500 Hrs *Temperature control system : Range : 0.1 to 59.9 degree centigrade Hysteresis : 0.4 degree centigrade with sensor. Probe : Sensor cord 15 meters (1 no)	1 unit
17	Fitting & fixing charge	Fitting & fixing charge	1 unit
18	Transportation	Transportaion up to the project site.	1 unit

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1	Area	300 sqm	
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7	Working Bench	Rust free working station for associated work of citrus project.	1 unit
8	Internal shading system	Manual rollable shading with 50% shade net for protection from extra heat with all rolling accessories.	1 unit
9	humidity sensor	The proposed chambar will be equiped with humidifier (as desired up to 80%) or de humidification fan.	1 unit

Details Specification of HI-Tech Shade Net House

10	Civil construction/work	Foundation wall: Across the complete side of Green house including the Buffer/ Pre- entry room will be as per norms of PWD. Foundation wall- For all side of the chamber 1' below to the surface and 1' above earth surface as kick board 9" widh. Frame base block height 2' with plaster. Floor will be filled by earth up to 1' from the surface with compression. Foot path 1m wide and 10cm thick made by interlocking paving blocks. Drainage system- Provision for proper drainage with slope will be provided.	1 Unit
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