Request for Proposal (RFP) for supply and installation of a polyhouse to be located at the Maize Doubled Haploid Facility at ARS-Kunigal, Karnataka

In partnership with the University of Agricultural Sciences (UAS)-Bangalore, the International Maize and Wheat Improvement Center (CIMMYT) is establishing a Maize Doubled Haploid Facility at Agricultural Research Station (ARS), Kunigal. ARS-Kunigal is located about 70 km from Bengaluru and about 10 km from Kunigal town on the Bengaluru-Hassan highway. This is a call to submit proposals for supply and installation of a polyhouse at this facility.

**Design Features and Requirements for a polyhouse:**

1. Structural design: A polyhouse of similar or improved design as in the photos below with anti-corrosive, humidity resistant GI structural frame
2. Total area under polyhouse: 200m²
3. GI structural frame using GI pipes of thickness at least 2mm
4. Wall height 10 ft; 3 ft concrete wall/base and above it a 7 ft thrips-resistant screen (Blockade 5525 trademark), with a hole size of 9.5 x 29.5 mils having medium air flow to cover the sides of the polyhouse.
5. Top of polyhouse to be covered by UV-resistant, high density clear polyethylene fabric (200 microns thickness)
6. Silver/gray Aluminate net 50% with sliding movement with manually rolling system to reduce temperature
7. Doors (Entrance, Exit): 6 ft wide sliding door made of 4 ft aluminum bottom portion on top of which is the polyethylene fabric described in Item 5, reinforced by a 1-inch square galvanized welded wire mesh with lock and pinion system.
8. Bay Interval: 10 ft spacing
9. Seeding Recovery Benches. Tables made with the GI Pipe of 25mm x 50mm, Support Pipes 20mm x 20mm and Legs of the Table 76mm and 2 mm thickness GI Pipes. Top of the Tables: iron mesh 3mm Thick. The bench is used to set plastic crates (16 inches W x 22 inches L) where potted seedlings are maintained for 2 weeks (see photos below)
   a. Dimension: the length of the bench depends on final length of the greenhouse.
   b. Height of Benches: 30 inches from the ground level to bottom of bench
   c. Post: 2 ⅛ inch GI posts in concrete footing, enclosed with 3-inch PVC shell to prevent animals climbing benches
7. Access:
   a. Central Access Alley: low-grade concrete pavement; 5 ft wide x 80 ft long
   b. Space between Benches: 2.5 ft
   b. Ground surface between and around Benches: gravel surface, medium coarse
8. Water supply and pump system to maintain constant pressure to end of benches
10. Air fans for ventilation and horizontal air movement to force out hot air. Four round fans of 20”, 0.5 HP capacity. High quality ISI approved electrical supplies (fittings, wires etc.) to be used.

11. Design should include appropriate measures for rainwater diversion (gutters), proper ventilation and all necessary accessories to ensure structural stability of the polyhouse.

Proposal Submission

1. Signed and stamped proposals should be in the name of CIMMYT India and scan copy needs to be submitted through email (see S. No. 5 below)

2. For ease of evaluation the proposal should be segregated into:
   a) Basis of design & technical specifications
   b) Bill of quantity & price schedule; applicable taxes should be mentioned separately. Itemized quotation is required especially indicating the costs for air fans and polythene and shading materials.
   c) Commercial terms & conditions with a clear mention of terms of payment
   d) Exclusions
   e) Warranty, after-sales service and maintenance clearly indicated

3. Delivery and installation timeframe should be specified

4. Scan copies of the following documents should be attached:
   a. Cancelled cheque
   b. Tax ID (PAN Card & GSTIN)
   c. Official letter of registration
   d. Proof of address of the Company
   e. ID of the legal representative of the Company
   f. Previous experience with relevant clientele (list them)

5. Submission Address: Through email: “CIMMYT-BISA.procurement@cgiar.org”

6. Last date of submission: April 22, 2021

For any clarifications you may write to Dr. B. Vivek, Regional Maize Breeding Coordinator; Email ID: b.vivek@cgiar.org

Hiring of the service provider will be done at the sole discretion of CIMMYT.