



**PROCUREMENT NOTICE
CONSULTANCY TO DEVELOP ARCHITECTURAL DRAWINGS
FOR AGRICULTURAL COVERED STRUCTURES**

Project country:	Belize
Financing institution:	International Fund for Agricultural Development
Sector:	Agriculture
Project name:	Resilient Rural Belize Programme
Title:	Specific Procurement Notice (SPN)
Procurement type:	Consulting Services
Procurement Post:	Consultancy to Develop Architectural Drawings for Agricultural Covered Structures
Loan/Credit/Grant Financing No.:	2000002301

Background: The Government of Belize (GOB), through a financing arrangement with the International Fund for Agricultural Development (IFAD) has embarked on a six-year Programme, Resilient Rural Belize (RRB), which aims to minimize the impacts of climatic and economic events on smallholder farmers while supporting sustainable market access for their produce. The programme will help farmers employ climate resilient agricultural practices and technologies; integrate profitable smallholder participation into the development of select vegetable, fruit, and honey value chains; and support smallholder production capacity through investments in public and private climate resilient infrastructure and in the strengthening of smallholder farmer Producers Organizations and relevant GOB Departments.

Scope of Service:

One of the objectives of the Programme is to assist small farmers to become more climate resilient by improving their agricultural production through investments in climate resilient agricultural technologies such as covered structures, water harvesting facilities and storage facilities. To accomplish this, the Programme must prepare appropriate designs and architectural drawings, which shall be used for the procurement of high-quality services and materials for the construction and delivery of all identified technologies.

To this end, the scope of service includes the preparation and delivery of architectural drawings (digital and hard copy), for two (2) types of climate smart covered structures (convex roofing style and shed style roof), based on the specifications attached to these Terms of Reference.

Duties and Responsibilities:

The duties and responsibilities of the consultant include, generally:

1. Accompanying representatives of the Horticulture Unit of the Ministry of Agriculture on site visits to at least two (2) locations within the country where similar type structures have been developed to gather prospective and preliminary measurements;

2. Conducting at least two (2) days of working visits to Central Farm to collaborate with technical officers on specifications, dimensions, angles and orientation of structure during the development of the drawings; and

Specifically:

3. Drawing the dimension layout or foundation of the structure showing the position, distance between the base anchors including the outer, mid inner (in the case of the external faces of the structure) and center anchors, total length and width of the structure.
4. Drawing elevation view to show a difference or change of height along the length of the structure of the base anchor purlin above the ground and poured concrete. The gradient from the first to last anchors should not exceed 5% and an anchor cannot be less than 8" inside the concrete.
5. Drawing 3D views of the base anchor footing details including hole dimensions, reinforcement and concrete requirements, outline of the base anchor including position of fastening holes and orientation of the anchor. Fully labelled.
6. Drawing 3D views of the of the structure's uprights (outer walls, mid inner for external faces and structural center). Labelling information should include width, length, height, gauge and fastening hole position and details. Uprights should be installed opposite to the base anchor openings.
7. Drawing 3D views of the upper, lower and complete rafter assembly detail, including length, height, quantity and angles of supporting trusses. In addition, fastening plate number and positions should be highlighted.
8. Drawing 3D views of structure's external and internal uprights and complete rafter assembly together showing critical dimensions such as length, width, heights angles, etc. These must include gutter height, total height and height from rafter assembly base to the top of the structure.
9. Drawing 3D views of the of the structure's connecting trusses (outer walls, lower and upper window). Labelling information should include width, length, height, gauge and fastening hole position and details. This must include drawing of connecting truss joiner and details such as dimensions and fastening hole position.
10. Drawing 3D views of the of the support trusses (overhead corners, between external upright and second upright and central upright support trusses). Labelling information must include width, length, height, gauge and fastening hole position and details.
11. Drawing 3D views of double door and the concrete base on which it sits. This must include position and dimensions of the foot bathe and wash station.
12. Drawing sketch of fastening plates showing assigned numbering, shape, quantity, sizes and position of fastening holes. This must include view of structure parts in the background to which the plates should be fastened.
13. Drawing 3D views of the complete frame of the structure showing all supporting parts such as base anchor, uprights, rafter assembly, connecting trusses, fastening plates, support trusses, etc. Drawing must show structure from all 4 sides.
14. Drawing 3D views of the complete structure showing general outline of the frame and covering material (plastic and netting) installed. Drawing must show structure from all 4 sides.

15. Conducting all of the above in order to provide the specified outputs for both the convex and lean-to or shed style roofing of the Tropical Greenhouse Structures.

Deliverables:

The deliverables shall include:

- i. Initial Renderings of Drawings in 3D view;
- ii. Final architectural design and detail working drawings, including 3D Renderings, for the specified structures in digital and (1) hard copy.

Duration of Work:

The completion of the architectural designs should be completed within two (2) months of contract signing.

Location of Work:

The consultant shall work from his/her own premises, but will be required to carry out field visits to specified locations of existing covered structures to become familiar with all aspects of the project.

Qualifications & Experience:

- The consultant must possess a minimum of an Associate's degree in Architecture or related field.
- A minimum of five (5) years' experience in developing architectural designs.

Specific Experience:

- A minimum of three (3) years' experience developing and supervising architectural designs.
- A minimum of three (3) years' experience in the designing of environmentally friendly buildings.
- A minimum of one project of similar nature and size.
- Experience with any Agricultural Infrastructure will be an advantage.
- Proficiency in the use of Computer Aid Design (CAD) Software for the preparation of the drawings and the creation of the 3D renderings.

Application Submission:

Interested candidates are requested to submit a Letter of Interest and Curriculum Vitae, along with a copy of the highest degree to the address below. The application package should be labelled with the subject line "*Consultancy to Develop Architectural Drawings for Agricultural Covered Structures*" and be delivered no later than 3:00 p.m. on Thursday, February 6, 2020. ***If submitted electronically, application package must be submitted as one PDF file.***

Attn: Tracey Recinos Hanson
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