

PROPOSED COMMUNITY CENTER

SH. FOAKAIDHOO

INVITATION TO SUPPLY & INSTALL PREFABRICATED BUILDING.

## Section II. Scope of Supplier

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### 1. Location of the Works

The proposed site is located in the island of SH.FOAKAIDHOO.

### 2. Description of the Works.

The major material supply/ works to be under taken include;

- a) Provide all the structural steel required for the building which includes foundation anchor bolts, columns, Beams, decks, Roof Beams, Roofing sheets, bolts...etc. (All the steel structure should be epoxy painted).
- b) Provide all the Cladding material for the building wall including all required framing for fixing of Cladding.
- c) Provide all floor decking materials.
- d) Provide all staircases mentioned in the drawing.
- e) Provide hand railings (staircase) as per shown in the drawings.
- f) Provide Roofing Sheets including purling, heat insulation material and all required material for fixing of Roof.
- g) Careful procedures for erection drawings giving importance to the given drawings.
- h) **Provide structural and other necessary detail drawings (including foundation drawings) and structural calculations (all drawings are need to be stamped and approved by the local structural and architectural checkers).**

#### **Note:**

1. Drawings are based upon BS standards.
2. Attached drawings clearly labels the use of specific spaces and type of walls can be proposed by the suppliers.
3. The building is to be erected with full cladding / any other method bidders proposed the block work is up to 900mm above the ground.
4. The supplier should quote and supply according to the drawings and specifications given; suppliers are encouraged propose an economical building solution.
5. It is recommended to design all foundations with in the given site boundary.
6. Before fabrication the supplier must submit the shop drawings for approval.

### Section III. Technical Specifications

## **TECHNICAL SPECIFICATIONS**

### **1.0 GENERAL AND PRELIMINARIES**

#### **1.1 GENERAL**

The Drawings shall be read in conjunction with the Specifications and matters referred to, shown or described in the former are not necessarily repeated in the latter.

#### **1.2 STANDARDS, MATERIALS, GOODS AND WORKMANSHIP**

Materials, goods and workmanship shall be of the best quality of their respective kinds and, as far as applicable, shall comply in every respect with the requirements of the quoted Standards, Codes of Practice and Specifications or any other National Standards approved by the Employer. Preambles and descriptions of materials, goods and workmanship given in any one section of the Specifications shall apply throughout the whole of these Specifications unless otherwise described.

#### **1.3 SAMPLES BROCHURES AND SHOP DRAWINGS**

The supplier shall furnish for approval with reasonable promptness, all samples and brochures as directed by LGA or a project consultant assign by the LGA. The supplier shall provide all the necessary shop drawings.

#### **1.5 DEFECT & PROTECTION DURING DELIVERY**

During Delivery all delicate materials shall be carefully handled and stored under cover in a manner to prevent deformation and damage to the materials and to prevent rusting and the accumulation of mud, dirt or other foreign matter on the metal work.

### **2.0 METALWORK**

#### **2.1 GENERAL**

Metal work shall be fabricated carefully and accurately to ensure compliance with design and performance requirements, using types and grades of metal as specified for the purpose. The finished work must be free from distortion and cracks. Test certificates should be provided for quality assurance of the metal works supplied.

#### **2.2 MATERIAL QUALITY**

Shape of steel shall be precise and straight and free of injurious scratches and rust. Metal work shall be fabricated carefully and accurately to ensure compliance with design and performance requirements, using types and grades of metal as specified below;

All structure members- Hot rolled universal section.

Steel Grade- Grade 43 / Q345B

Steel Strength – 275N/mm<sup>2</sup>

All Steels to Conform to BS 5950

## **2.3 BOLTING**

Bolts shall be of sufficient length to have at least one complete thread projecting beyond the outer face of the nut when tightened up. Washers shall be provided in all cases. Where necessary, washers shall be tapered or otherwise suitable shaped to give the heads and nuts of bolts a satisfactory bearing.

In all cases where the full bearing of the bolt is to be developed, the bolt shall be provided with a washer of sufficient thickness under the nut to avoid any threaded portion of the bolt being within the thickness of the parts bolted together. Where a tubular member is drilled to take bolts or studs, provision shall be made to prevent the access of moisture to the interior of the tube. For example, a transverse sleeve can be inserted where a bolt passes through a tube, or grommets can be used under the heads and nuts.

## **2.4 PAINTING TO STEEL**

All steel metal shall be epoxy painted.

## **3.0 WALL CLADDING AND ROOFING**

Wall Cladding and Roofing sheets shall be roll formed from not less than 0.5mm (nominal) thick cold-rolled steel coated with an Aluminium and Zinc Alloy (Zincalume). Wall Cladding and Roofing sheets should be pre-painted. Paint finish film thickness shall be 25microns of high durability polyester.

Cladding and Roofing material shall be to the highest standards and codes of practice.

The Supplier is responsible for providing Cladding and Roofing material that is completely watertight and corrosion resistant and able to withstand expansion extremes likely to be encountered with temperature fluctuations. The Supplier is to ensure that Cladding and Roofing will be able to withstand normal pedestrian traffic at occasional intervals without sustaining damage of any description.