

**Guyana Energy Agency**

**Project: Construction of Carport at Lot 1 - University of Guyana Turkeyen Campus,  
Region 4**

**Summary of Bills**

| <b>Bill No.</b> | <b>Description</b>                                   | <b>Amount (\$)</b> |
|-----------------|--|--------------------|
| 1               | Preliminaries  |                    |
| 2               | Sub- Structure                                       |                    |
| 3               | Superstructure                                       |                    |
|                 | <b>Sub-total</b>                                     |                    |
|                 | <b><u>Contingencies</u></b><br>Add 10% contingencies |                    |
|                 | <b>Total GYD Estimated</b>                           |                    |

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**Bill No. 1 - Preliminaries**

| <b>Item</b>                                  | <b>Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Rate (\$)</b> | <b>Amount(\$)</b> |
|--|--|-------------|-----------------|------------------|-------------------|
| 1.1  | Works for this project is not limited to normal working hours. This is to be considered by the contractor when pricing the Bill of Quantities.<br>Allow for Mobilization and demobilization  | Sum         |                 |                  |                   |
| 1.2  | Allow for providing Performance Bond. Bond to be valid until the issue of the Final Certificate.   | Sum         |                 |                  |                   |
| 1.3  | Allow for insurance of the works, materials, construction plant and for damage to property or person.  | Sum         |                 |                  |                   |
| 1.4  | Allow for the removal of temporary facilities, rubbish, debris and surplus materials as they accumulate and at the completion of the work to the satisfaction of the engineer.   | Sum         |                 |                  |                   |
| 1.5  | Allow for the protection to the immediate surroundings of the site. Construction traffic should be kept to a minimum. Also allow for the protection of the all existing infrastructure and the works during the construction period. All damages to existing infrastructure or the works due to the execution of the works will have to be rectified by the contractor to the satisfaction of the client.  | Sum         |                 |                  |                   |
| 1.6  | The Contractor shall comply with the requirements of Occupational health and safety regulations and ensure that his workforce and any other persons engaged on the works also comply with their requirements. The Contractor shall provide all warning signs, barricades, screens, construction nets, signages, caution tape, safety helmets, jackets, boots, safety harness etc. in adequate quantities as necessary. Safety gears must be worn at all times. | Sum         |                 |                  |                   |
| 1.7  | Allow for provision of security of the works and entirety from the date of site possession to the date of acceptance of works by the Client.   | Sum         |                 |                  |                   |
| 1.8  | Allow for provision of potable water, lighting, plants, tools and equipment for the execution of the works.  | Sum         |                 |                  |                   |
| <b>Total Bill No. 1 - Carried to Summary</b> |  |             |                 |                  |                   |

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## Bill No. 2 Sub-Structure

| Item No. | Description of Work  | Unit  | Qty | Rate (\$) | Amount (\$) |
|----------|--|-------|-----|-----------|-------------|
| 2        | <b>Sub- Structure</b><br><b>Pad foundation to hold columns in place - 2' length x 2' width x 8" thick pad and Pad foundation to hold diagonal members in place - 4' length x 2' width x 2' thick pad placement of 5/8" x 18" Anchor Bolts &amp; nuts as directed by the Engineer</b> |       |     |           |             |
| 2a.      | <b>Carport Foundation</b>  |       |     |           |             |
|          | <b>Excavation and Earthworks</b>   |       |     |           |             |
| 2a.1     | Excavate foundation footing not exceeding 38" deep.  | Cu.yd | 7   |           |             |
|          | <b>Sand filling</b>  |       |     |           |             |
| 2a.2     | Fill and compact 10" thk. white sand to bottom of pad foundation.  | Cu.yd | 2.5 |           |             |
|          | <b>Blinding (1:6 mix)</b>  |       |     |           |             |
| 2a.3     | Place 2" thick blinding upon compacted white sand to accommodate pad foundation.   | Sq.yd | 4   |           |             |
|          | <b>Mild Steel reinforcement in foundation pad</b>  |       |     |           |             |
| 2a.4     | Place 1/2" dia main steel bars at 5" crs inclusive of laps and ties to 8" pad  | lbs.  | 107 |           |             |
| 2a.5     | Place 1/2" dia main steel bars at 5" & 8" crs inclusive of laps and ties to 24" Pad  | lbs.  | 384 |           |             |
|          | <b>Place Structural concrete 4200 psi at 28 days, using 3/4 minus stones to:</b>   |       |     |           |             |
| 2a.6     | 24" Pad foundation.  | Cu.yd | 2   |           |             |
|          | 8" Pad foundation  | Cu.yd | 0.3 |           |             |
|          | <b>Formwork</b>  |       |     |           |             |
| 2a.7     | Provide vertical rough finish to sides of foundation pads and slab.  | Sq.yd | 10  |           |             |
|          | <b>Carport Parking Slab</b>  |       |     |           |             |
| 2b       | <b>Construction of Reinforced Concrete Base to house solar shed: Base Dimensions - 20ft length x 10ft width.</b>   |       |     |           |             |
|          | <b>Excavation and Earthworks</b>   |       |     |           |             |
| 2b.1     | Excavate foundation footing not exceeding 12" deep.  | Cu.yd | 15  |           |             |
|          | <b>Sand filling</b>  |       |     |           |             |
| 2b.2     | Fill and compact 6" thk. white sand to bottom of excavated area allowing a firm bed for blinding.  | Cu.yd | 8   |           |             |
|          | <b>Blinding (1:6 mix)</b>  |       |     |           |             |
| 2b.3     | Place 2" thick blinding upon compacted white sand to accommodate pad foundation and rc slab.   | Sq.yd | 43  |           |             |
|          | <b>Mild Steel reinforcement in slab:</b>   |       |     |           |             |
| 2b.4     | Supply and place BRC # 65 fabric to the slab, inclusive of laps.   | Sq.yd | 43  |           |             |
|          | <b>Place Structural concrete 4000 psi at 28 days, using 3/4 minus stones to:</b>   |       |     |           |             |
| 2b.5     | 4" thk floor slab.   | Cu.yd | 5   |           |             |
|          | <b>Formwork</b>  |       |     |           |             |
| 2b.6     | Provide vertical rough finish to sides of foundation pads and slab.  | Sq.yd | 5   |           |             |
| 2b.7     | Supply and install DPM to bottom of concrete slab and foundation   | Sq.yd | 65  |           |             |

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| <b>Item No.</b>                 | <b>Description of Work</b>  | <b>Unit</b> | <b>Qty</b> | <b>Rate (\$)</b> | <b>Amount (\$)</b> |
|---------------------------------|---|-------------|------------|------------------|--------------------|
| 2c.1                            | <b>Excavation and Earthworks</b><br>Excavate foundation footing not exceeding 38" deep.   | Cu.yd       | 7.0        |                  |                    |
| 2c.2                            | <b>Sand filling</b><br>Fill and compact 10" thk. white sand to bottom of pad foundation.  | Cu.yd       | 3          |                  |                    |
| 2c.3                            | <b>Blinding (1:6 mix)</b><br>Place 2" thick blinding upon compacted white sand to accommodate pad foundation.   | Sq.yd       | 7          |                  |                    |
| 2c.4                            | <b>Corregated Steel reinforcement in foundation pad</b><br>Place 1/2" dia main steel bars at 8" crs inclusive of laps and ties to 8" strip foundation | lbs.        | 141        |                  |                    |
| 2c.5                            | Place 1/2" dia stirrups at 8" crs inclusive of laps and ties to 8" strip foundation   | lbs.        | 60         |                  |                    |
| 2c.6                            | Place 1/2" dia starter bars at 16" crs inclusive of laps and ties to for Kerb wall  | lbs.        | 47         |                  |                    |
| 2c.7                            | <b>Place Structural concrete 4200 psi at 28 days, using 3/4 minus stones to:</b><br>8" strip foundation   | Cu.yd       | 2          |                  |                    |
| 2c.8                            | Supply and install 6" concrete hollow blocks core filled with 1:3 mix kerb wall to strip foundation inclusive of rendering and 1" thick mortar        | Sq.yd       | 6          |                  |                    |
| 2c.9                            | <b>Formwork</b><br>Provide vertical rough finish to sides of foundation pads and slab.  | Sq.yd       | 11         |                  |                    |
| 2c.10                           | Supply and install DPM to bottom of concrete strip foundation   | Sq.yd       | 16         |                  |                    |
| <b>Total Carried to Summary</b> |   |             |            |                  |                    |

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**Bill No. 3 Sub-Structure**

| Item No. | Description of Work  | Unit  | Qty   | Rate (\$) | Amount (\$) |
|----------|--|-------|-------|-----------|-------------|
| 3        | <b>Superstructure</b><br><b>Columns in place - 8" length x 8" width x 8'1" height to Pad foundation to hold diagonal 4"x4"x1/4" hallow section rafter inclusive if bolts, nuts and base plate</b>  |       |       |           |             |
|          | <b>Columns</b>   |       |       |           |             |
|          | <b>Mild Steel reinforcement in foundation pad</b>  |       |       |           |             |
| 3.1      | Place 1/2" dia main steel bars at 4" crs inclusive of laps and ties.   | lbs.  | 170   |           |             |
| 3.2      | Place 1/4" dia main steel bars at 8" crs inclusive of laps and ties.   | lbs.  | 20    |           |             |
|          | <b>Place Structural concrete 4200 psi at 28 days, using 3/4 minus stones to:</b>   |       |       |           |             |
| 3.3      | 8" x 8" Column   | Cu.yd | 2     |           |             |
|          | <b>Formwork</b>  |       |       |           |             |
| 3.4      | Provide vertical fair finish to sides of Column.   | Sq.yd | 8     |           |             |
|          | <b>STRUCTURAL STEEL</b>  |       |       |           |             |
|          | <b>Framing and fabrication; including shop and site bolts, nuts and washers for structural framing to structural framing connections, welded connections, base plates surface preparation and treatment with anti corrosive paint. Steel grade to be ASTM A572 grade 50 or equivalent.Weldable steel, as specified</b> |       |       |           |             |
|          | <b>Ton = 2000 lbs</b>  |       |       |           |             |
|          | <b>Columns</b>   |       |       |           |             |
| 3.5      | 8"x4"x1/4" hallow section  | tons  | 0.55  |           |             |
|          | <b>Rafters</b>   |       |       |           |             |
| 3.6      | 4"x4"x1/4" hallow section inclusive of welded 4" angle section to receive purlins  | tons  | 0.5   |           |             |
|          | <b>Purlins</b>   |       |       |           |             |
| 3.7      | 6" galvanized purlins 2.5mm  | tons  | 0.600 |           |             |
|          | <b>Total Carried to Summary</b>  |       |       |           |             |