Hospital Rehabilitation

Tender for the Construction of New Maintenance Workshop

July 2016
July 28th, 2016

Dear Sir/Madam,

Re: Tender for the Construction of New Maintenance Workshop

You are invited to submit a tender for the above captioned project. Included are the tender documents consisting of:

1. Instruction to Tenderers
2. Document Check List
3. Form of Tender
4. Bill of Quantities
5. General Conditions of Contract
6. Anti-Collusion Statement
7. Evaluation Criteria
8. Post Contract Evaluation
9. Construction Drawing

Please return a complete document of the priced and signed Form of Tender, Bill of Quantities, Completed Document Check List, signed anti-collusion statement and a copy of your tax compliance certificate (if locally based). These should be placed in an inner envelope and addressed to The Chairperson, Departmental Tender Committee, Ministry of Communications, Works & Labour, Brades, MSR1110, Montserrat. The name of the project should also be written on this inner envelope and should read, “Tender for the Construction of New Maintenance Workshop”. The name of the tenderer should also be written on the inner envelope.

This envelope should be placed into an outer envelope addressed to The Chairperson, Departmental Tender Committee, Ministry of Communications, Works & Labour, Brades, MSR1110, Montserrat. The name of the project should also be written on this outer envelope and should read, “Tender for the Construction of New Maintenance Workshop”. The outer envelope should bear no identification of the tenderer. Tenders are to be received no later than 2:00p.m on Monday August 15th 2016. Please ensure that no additional marks are placed on the outer envelope.

Tenders are to be taken to the top floor of the Ministry of Communications Works & Labour building where the tenderer would place their tender in the Tender Box and be given a receipt after this is completed.

A site visit will be arranged for 10:00 am on Thursday August 4th, 2016 at the Glendon Hospital in St Johns. Any queries relating to the tender or works included should be made in writing to the Director, Public Works Department.

Yours faithfully,

Beverley Mendes
The Chairperson
Departmental Tender Committee
Ministry of Communications, Works and Labour
Instructions to Tenderers

1. The Montserrat General Conditions of Contract will be adopted for this contract.

2. Tenderers must complete the Form of Tender, Document Check List, Anti-collusion statement and Bill of Quantities for the works. Failure to fully complete these documents will lead to their Tenderer becoming non-compliant and rejected.

3. The tenderer must submit a Tax Compliance Certificate from Inland Revenue along with the Tender documents.

4. The tenderer will be deemed to have inspected the site and be familiar with the environment and working conditions on the site.

5. All works undertaken will be the subject of taxation in accordance with the current legislation.

6. The successful tenderer should submit details of their current insurance sufficient to satisfy the requirements for insurance given in the Conditions of Contract and the Specification. The insurance shall jointly indemnify the Contractor and GOM in the amount that is the greater of either EC$50,000.00 or the Submitted Price. This will be requested before the signing of the contract.

7. Tenders should be returned in a sealed envelope, no later than 2:00p.m on Monday 15th August 2016. Tenders and all supporting documents should be enclosed in an inner envelope duly sealed and bearing the words, “Tender for the Construction of New Maintenance Workshop” and addressed to The Chairperson, Departmental Tender Committee, Ministry of Communications Works and Labour, Brades, Montserrat. The name of the tenderer should also be placed on this inner envelope. The inner envelope should be placed in a large outer envelope and addressed to The Chairperson, Departmental Tender Committee, Ministry of Communications Works and Labour, Brades, Montserrat. The name of the project should also be written on the outer envelope and should read, “Tender for the Construction of New Maintenance Workshop”. The outer envelope should bear no identifiable mark of the tenderer. Tenders should not have any additional marks on the envelope.

8. Tenders are to be taken to the top floor of the Ministry of Communications Works & Labour building where the tenderer would place their tender in the Tender Box and be given a receipt after this is completed. Late tenders will not be considered.

9. Tenderers are to provide all documents and / or information requested as part of the Tender Evaluation.

10. All tenders will be arithmetically checked, any errors will be brought to the tenderers attention. The rates supplied would be the basis for the arithmetic correction and would be the determining factor for any queries about the corrected price.

11. Tenderers are not allowed to submit alternative tenders.

12. The Employer is not bound to accept the lowest tender and has the right to accept and reject any tender offers.
Description of the Works

- Construction of new timber framed superstructure as per attached drawing.
Ministry of Communications, Works and Labour

Tender Document Checklist

Project Title: *Tender for Construction of New Maintenance Workshop*

Date scheme advertised: *Thursday 28th July 2016*

Tender Deadline Date: *Monday 15th August 2016*

Tender Deadline Time: *2:00pm*

Below are the following documents that should be provided for a contractor’s tender to be valid. Bidders are asked to supply and tick off the following information. Failure to provide any of the stated documents will result in the tender being considered non-compliant and rejected.

The below documents should be presented with their bid to ensure that their bid is valid.

- Signed Form of Tender (*Including time for completion and notice period*)
- Completed Bill of Quantities
- Tax Compliance Certificate
- Signed Anti-Collusion Statement
- Details of Contractor Experience

.........................................     …………………………
Signed on behalf of Contractor     Date
FORM OF TENDER

The Chairperson
Departmental Tender Committee
Ministry of Communications, Works and Labour
Brades
Montserrat

Dear Sir/Madam;

Re: Tender for the Construction of Maintenance Workshop.

I/We the undersigned undertake to construct and complete the above Works in accordance with the General Conditions of Contract, Specifications and Drawings for the sum of:

EC$

..........................................................................................................................
(words).............................................................................................................
..........................................................................................................................
..........................................................................................................................
..........................................................................................................................

If my/our tender is accepted, I/We undertake to commence the Works within ____ days from the date of receipt by me/us of the official order and complete the works within _____ days from the date of receipt by me/us of the official order.

I/We understand I/We shall not be reimbursed for any cost that may have been incurred in compiling this tender. I/We confirm this tender shall remain valid for a period of 90 days from the date of submission of this tender.

Name...........................................................................................................

Signed.........................................................................................................

Name of firm (If Applicable) .................................................................

Address......................................................................................................

......................................................................................................................

Tel. nr........................................................................................................

Fax nr........................................................................................................

Email Address ...........................................................................................

Date............................................................................................................
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty</th>
<th>Unit</th>
<th>Rate</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Superstructure</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Wolmanised Pitch Pine</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>2&quot; x 4&quot; treated timber stud wall with galvanise corner ties to both sides</td>
<td>602</td>
<td>ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>2&quot; x 4&quot; treated timber bottom plate bolted to floor</td>
<td>122</td>
<td>ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>6&quot; long raul bolts @ 4' - 0&quot; ctrs</td>
<td>34</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>2&quot; x 4&quot; treated timber stud wall to partition wall</td>
<td>96</td>
<td>ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>¾&quot; treated T1-11 plywood exterior wall</td>
<td>112</td>
<td>sy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>3/8&quot; treated plywood facing to internal walls and partition</td>
<td>142</td>
<td>sy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>1&quot; x 2&quot; timber casing at corners (external)</td>
<td>64</td>
<td>ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Windows W1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>48&quot; x 48&quot; Jalousie White Aluminium Window with 3&quot; Bello Horizonte Louvre Blades including screen with all necessary fittings as per drawing # A-07</td>
<td>9</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Wolmanised Pitch Pine to:-</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>1&quot; x 3&quot; timber casing around edges (internal)</td>
<td>150</td>
<td>ft</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Windows W1 continued</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>1&quot; x 3&quot; timber casing around edges (external)</td>
<td>150</td>
<td>ft</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Contract rates must include all materials, labour and transportation to successfully complete the works**

All works measured as per Smm7 and standards are to meet Government of Montserrat (GOM) and OECS building code. Copies of which can be read at PWD Architectural Section.

Maintenance Workshop
<table>
<thead>
<tr>
<th><strong>DOORS D1</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B</strong></td>
<td>Aluminium door (size 36&quot; x 80&quot;) complete with ½ louvre insert with all ironmongomary</td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>Wolmanised Pitch Pine to:-</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>2&quot; x 6&quot; treated timber door frame</td>
</tr>
<tr>
<td><strong>E</strong></td>
<td>1&quot; x 1&quot; Door stop glued and screwed to timber door frame</td>
</tr>
<tr>
<td><strong>F</strong></td>
<td>2&quot; Architrave</td>
</tr>
<tr>
<td><strong>G</strong></td>
<td>stainless steel 4&quot; butt hinges</td>
</tr>
<tr>
<td><strong>H</strong></td>
<td>combination lock set complete</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DOORS D2</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>H</strong></td>
<td>Aluminium door (size 36&quot; x 80&quot;) complete with ½ louvre insert with all ironmongomory</td>
</tr>
<tr>
<td><strong>J</strong></td>
<td>Wolmanised Pitch Pine to:-</td>
</tr>
<tr>
<td><strong>K</strong></td>
<td>2&quot; x 6&quot; treated timber door frame</td>
</tr>
<tr>
<td><strong>L</strong></td>
<td>1&quot; x 1&quot; Door stop glued and screwed to timber door frame</td>
</tr>
<tr>
<td><strong>M</strong></td>
<td>2&quot; Architrave</td>
</tr>
<tr>
<td><strong>N</strong></td>
<td>stainless steel 4&quot; butt hinges</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Roof</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>44' - 4&quot; x 24' - 3&quot; hip roof as per drawing # A-08 including 2&quot; x 6&quot; rafters @ 24&quot; on centers (o.c) fastened to double 2&quot; x 4&quot; top plates with metal hurricane ties, 2&quot; x 8&quot; hip board, 2&quot; x 6&quot; timber cross brace bolted to every second rafter on both sides, including galvalume sheathing nailed to 2&quot; x 4&quot; lathing fastened to T1-11 plywood nailed to 2&quot; x 6&quot; rafters with a 1&quot; x 6&quot; fascia board.</td>
</tr>
</tbody>
</table>
### Electrical Installation

Note electrical installation specific brands will be confirmed with Project Manager and QS quantities are provisional for remeasurement.

Distribution boards as drawing # A-09 Note all 110 and 110A including mains circuit breakers as specified and fixing panels to stud wall.

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Provide and lay 4 core 35mm² cable supplied by (MUL) in duct to be remeasured by the contractor</td>
</tr>
<tr>
<td>B</td>
<td>Panel board, 4way, single phase, 240v, 100amp isolator, 16mm² supply</td>
</tr>
<tr>
<td>C</td>
<td>Panel board, 4way, single phase, 110v, 100amp isolator, 16mm² supply</td>
</tr>
<tr>
<td>D</td>
<td>5 KVA 220v Step down Transformer</td>
</tr>
</tbody>
</table>

#### 240 Volt circuit, PVC insulated cabling conduits

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>1.5 mm² wiring to light fittings (6 fittings)</td>
</tr>
<tr>
<td>F</td>
<td>2.5 mm² wiring to socket outlets (14 outlets)</td>
</tr>
<tr>
<td>G</td>
<td>6.0 mm² wiring to transformer</td>
</tr>
</tbody>
</table>

#### 120 Volt circuit, PVC insulated cabling conduits

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>2.5 mm² wiring to socket outlets (14 outlets)</td>
</tr>
</tbody>
</table>

#### Fittings and accessories: Contactum or Pass and Seymour as appropriate or equally approved

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>220 socket outlet</td>
</tr>
<tr>
<td>K</td>
<td>110 socket outlet</td>
</tr>
<tr>
<td>L</td>
<td>Single pole 1 gang light switch</td>
</tr>
<tr>
<td>M</td>
<td>Three way light switch</td>
</tr>
<tr>
<td>Light fittings complete with lamps: TAMLITE lighting: as Schedule DWG Sheet 07</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>N</strong> External wall mounted security lights</td>
<td>2  nr</td>
</tr>
<tr>
<td><strong>Electrical Installation continued</strong></td>
<td></td>
</tr>
<tr>
<td><strong>A</strong> 24&quot; surface mounted single lamp florescent fixture reference WBC1217D including diffuser</td>
<td>4  nr</td>
</tr>
<tr>
<td><strong>Builders work in connection with services</strong></td>
<td></td>
</tr>
<tr>
<td><strong>B</strong> Allow for cutting or forming all holes and chases in stud wall for trunking or conduits and the like and making good on completion.</td>
<td>1  Item</td>
</tr>
<tr>
<td><strong>C</strong> 1/2&quot; Diameter Copper bonded Steel Earth Rod 6' - 0&quot; long driven into ground anchored and covered, well tested, including wiring and connection to main distribution board</td>
<td>2  nr</td>
</tr>
</tbody>
</table>

**Total**
Government of Montserrat
Public Works Department

Specifications
of
Labour and Materials
for

Construction of New Maintenance Workshop

CONTENTS

Section

1 General Items
2 Carpentry and Joinery
3 Roof Construction
4 Metal Work
5 Windows
6 Painting
7 Electrical Installation
Note:
This standard specification shall take precedence should there be minor discrepancies between this and other specifications contained within the tender documents.

Should there be any doubt about specific items; the tenderer shall obtain a ruling from the Government Architect/Contract Administrator before proceeding.
1.00 GENERAL ITEMS

1.01 Materials and Workmanship

All materials and workmanship shall be in accordance with current good practice and shall be fit for their purpose.

1.02 British Standards

BS references in this specification are to current British Standard Specifications.

1.03 Manufactured Materials

Strictly observe all manufacturers’ instructions. Ensure that the manufacturers’ instructions are available at the site. Incompatible materials shall not be mixed (for example, metric and imperial drainage systems). Where proprietary materials are specified on the drawing, the phrase “or equal approved” shall be deemed to be included.

1.04 Alternative Materials

“Or equal approved” means that products other than those specified may be used provided that the contractor satisfies the Architect as to their suitability and obtains his written approval. The Architect / Contract Administrator reserves the right to insist on the specified product if such approval is not given.

1.05 Accuracy

Work within dimensional limits that are suited to the structural stability and final appearance of the works taking account of the need for a good fit for prefabricated components.

1.06 Inspections

Give notices in respect of any work that must be inspected before covering up and do not cover up until inspections have been carried out. Such work includes pipework, drains and structural elements, e.g., foundations, ground slab and reinforcement for concrete.

1.07 Scaffolds

Properly constructed scaffolds shall be provided for all work that cannot be done safely by workmen standing on permanent or solid construction, except when such work can be done safely on ladders. All such scaffolds shall be substantially constructed, to support at least four times the maximum load and shall be secured to prevent swaying.

Roof brackets, roof scantling, crawling boards and similar forms of support shall be substantial in construction and securely fastened in place when in use.
Planks used in the construction of stationary scaffolds shall not be less than 2” nominal thickness. Where such planks overlap at the ends, the overlap shall be not less than 6”. Planks shall be placed so that they cannot tip under the weight of the worker at any point.

Nails used in construction of scaffolds shall be of ample size and length to carry loads they are intended to support and all nails shall be driven full length. No nails shall be subject to direct pull.

Barrels, boxes or other similar unstable objects shall not be used as supports for planking intended as scaffolds or places of work.

No materials or equipment other than required by the workers shall be placed on scaffold platforms.

1.08 Clearing and Cleaning

Remove all timber forms for concrete or other timber not required in the permanent works from the site. Keep the site clean and tidy. On completion, remove all plant, materials, waste and rubbish. Repair any damaged existing features and clean out gutters.

Remove all stains and splashes, clean glass, remove all dust and dirt from surfaces and leave the completed structure(s) to the Architect’s Contract Administrator’s satisfaction.

1.09 SITE SERVICES

Any arrangements that the Contractor enters into regarding the provision of electricity, water and other services shall be the sole responsibility of the Contractor. The Contractor shall be liable for all charges arising from such arrangements.

1.10 SITE POSSESSION

The contractor is responsible for obtaining permission to enter the site from the client.

1.11 DISRUPTION

The Contractor is responsible for organising the Works with Hospital management to minimise disruption of the day to day functions at the hospital and other activities in the vicinity of the site. Full and sufficient precautions to ensure the safety of all traffic through and around the work site and of traffic that is diverted by the Works shall be taken at all times, such measures to be approved by the PWD Quantity Surveyor. Signs shall be erected and maintained on the Site for the direction and control of traffic. The sizes of all such signs and the lettering and wording thereon shall be approved before erection. Construction areas shall be signed posted and, during periods of darkness lighted.

The Contractor should seek the approval of the Hospital Site Engineer before occupying any area of the site for the storage of materials, plant or equipment or welfare facilities.

1.12 INSURANCE
The Contractor is required to obtain contractors all risk insurance to cover public liability and damage to persons and property. The Contractor shall be required to prove that he has such insurance and that the sums insured are sufficient for the works in hand prior to commencement of the works. The Contractor shall ensure that the insurance remains valid throughout the period of the works and that any premiums due are paid. The Client may request proof of insurance at any time during the works.
2.00 CARPENTRY & JOINERY

Generally

Comply with BS 5268: Parts 2 and 3

2.01 Timber and Plywood

All timber and plywood is to be clean, sound, merchantable, properly seasoned timber, free from any defects making it unsuitable for its function in the Works. Unless otherwise stated, timber is to be stress graded imported Southern Yellow Pine, Grade No.1 or No.2 to NGRDL rules. Each piece of timber shall be marked with the grade and species. Plywood is to be American construction and industrial A-C or B-C grade sanded plywood, marked “APA: A-C (or B-C) exterior.”

2.02 Preservative

Timber and plywood are to be pressure impregnated with copper/chrome/arsenic (CCA) solution to BS 4072. After cutting or machining, brush on preservative in two applications to cut surfaces.

2.03 Fastenings

All fastenings are to be galvanized or zinc plated. Bolt washers are to be large diameter, i.e., at least 3 times the bolt diameter with a thickness of at least ¼ of the bolt diameter.

2.04 Splices

Do not splice timber members except where shown on the drawing.

2.05 Doors

A specialist manufacturer shall construct doors. Timber shall be specially selected for straightness and is to be well seasoned, tenoned and glued and wedged or pinned together when being fabricated. Plywood faced doors shall be glued and pressed to the framework and suitably dressed and finished with lipped stiles for internal doors.

2.06 Built-In Cabinets

The Contractor shall finish and/or furnish and install complete the interior finished joinery work shown on the drawings or hereinafter specified or both.

All brads and screws shall be brass and all nails shall be galvanized.
Work shall be assembled at the workshop in so far as practicable and delivered ready for erection and shall be done in accordance with measurements taken at the job.

Cabinets should be adequately framed and braced internally as necessary to provide rigidity and prevent sagging of shelving and workshops.

Cabinet tops shall be surfaced as specified, with hardwood edge and shall have compensating veneer on the underside, cabinet drawers shall have hardwood trim on all edges. Interior of drawers and cabinet and all surfaces seen shall be sealed with undercoat and finished with two coats of gloss enamel.

All drawers shall have patent Roller Slides and shall be screwed to a tight and even fit.

2.07 Door and Window Frames

Where not otherwise specified, frames should be fixed to all sides of openings at not more than 12" centres. Fixtures are to consist of built-in cramps, plugs and anchorages at least 2" deep into the adjacent structure.
3.00 ROOF CONSTRUCTION

3.01 Roof Sheeting

Roof sheeting shall be as manufactured by an approved manufacturer and the Particular Specification as to sheeting profile and colour shall be as agreed with the Government Architect. Provide and fix all holding down bolts/screws, ties, straps, sealants etc. to ensure water tightness and stability.

3.02 Timber Frame

Timber used in the framing and construction of the roof shall be of the same specification as that for Carpentry and joinery.

3.03 Roof Boarding

Shall be T-111 plywood sheeting
4.00 METAL WORK

4.01 Ironmongery

Provide and fix all screws, nails, bolts, washers, galvanized wall ties, metal flashings etc to complete the contract.

4.02 Finished Hardware

The Contractor shall supply and install all operating gear, finished hardware locking devices and similar appliances.

Hardware for aluminium windows shall be supplied as part of the window assembly.

Locksets and latch sets shall be as secure and fit for their intended purposes. Locks by Schlage or other equal approved manufacturer shall be supplied with master keys. Locks must be provided with two keys that will be handed over to the Architect on completion of this Contract.

All hardware, unless otherwise stated, shall be stained chrome on brass or other non-ferrous metal base. All butts, fingerplates, bolts, door closers, stops and holdbacks shall have similar finish.

Unless otherwise specified, locksets and latch sets shall be of cylindrical type with mechanism throughout constructed of rust resistant materials.

4.03 Windows

Windows shall be of Industrias Feliciano Aluminum manufacturer or equivalent.
6.00 PAINTING

6.01 Preparation

Clean down all new surfaces before commencing decoration. Remove any oil or grease spots. All surface-fixed hardware, fittings, etc., except hinges, shall be removed before painting and re-fixed on completion.

Surfaces of wood to be painted shall be filled as required at no more than 1/8" per layer, each layer being dried in between. Treat all knots, shakes and resinous portions of timber with shellac knotting. Rub down and remove dust and decorate.

6.02 Materials

All painting materials and colours shall be selected by the Client or approved by the Government Architect.

Samples of all colours shall be submitted to the Architect for approval. Undercoats shall be flat and of the approved colour. All paint, when approved, is to be ordered in one batch to ensure the matching of colours. Paint shall be latex based for all wood surfaces except where otherwise specified.

6.03 Mixing

All paint shall be properly mixed and strained free from skins and loose particles before application.

6.04 Painting

All paints to be used on this project shall be manufactured by an approved manufacturer and are to be free from skins, etc. Paints shall be lead and mercury free. Colours will be specified on site. All surfaces to be painted are to be free from oil, rust, dust, chalking and any other deleterious materials or conditions.

Woodwork generally: To all external and internal woodwork including roof framing, apply one Undercoat primer (other than pre-finished woodwork/joinery) and two coats of gloss paint unless specified otherwise.
8.00 ELECTRICAL INSTALLATION

8.01 Compliance with Statutory Authorities

The electrical installation is to be executed in accordance with the requirements and regulations of and to the approval of Montserrat Utilities Ltd., and the Electrical Inspectorate Division by qualified and competent workmen.

8.02 Examination of Work

The Contractor is to process the “Application to Wire for Electricity Supply” forms and submit them to the Electrical Inspectorate Division. Make safe existing electrical installation and liaise with supply authority as necessary. Before starting work and from time to time as the work progresses, the Contractor shall examine the work and materials installed by Subcontractors insofar as it affects his own work and shall promptly notify the Architect if any conditions exist that will prevent him from carrying out satisfactory work.

The Contractor will be required to have sufficient workmen on site during the whole period of construction to ensure that all conduits, duct sleeves etc. can be placed in position as the work progresses.

8.03 Approval, Testing, Fees and Permits

The work shall include the provision of all necessary notices, obtaining and paying for all permits, governmental taxes, fees and other costs in connection with their work; filing all necessary plans, preparation of all documents and obtaining all necessary approvals of Government Departments having jurisdiction; obtaining all required Certificates of Inspection for the work and delivery of the same to the Employer before request for acceptance and final payment.
GOVERNMENT OF
MONTSERRAT
PUBLIC WORKS DEPARTMENT
GENERAL CONDITIONS
OF
CONTRACT
GENERAL CONDITIONS

1 Definitions

a) The “Contract” means these General Conditions together with the Specification drawings and includes the contract agreement
b) The “Employer” means the Government of Montserrat
c) The “Engineer” means a duly authorized representative of the Employer
d) The “Contractor” means the company appointed to carry out the works
e) The “colony” means the colony of Montserrat
f) The “Site” means the lands and/or other places on under or through which Works are to be carried out
g) The “Works” means the works to be executed in accordance with this Contract as described in the Specification
h) The “language” of the Contract shall be English
i) The “Law” applicable to the Contract, shall be the Laws of Montserrat

2 Contract Document - Priority

1) Contract Agreement
2) The Drawings
3) Specifications
4) Conditions of Contract
5) Any other document forming part of the Contract

3 Extent of Contract

The Contract comprises of the construction and completion of all Works described in the Specifications, Drawings and Bill of Quantities and to supply all necessary labor, plant and temporary works to complete the described works together with such materials as are required by the Specifications.
4 Power to Vary or Omit
   a) The Employer reserves the right to vary from time to time during the progress of the works, the Specifications or Drawings and shall in writing, notify the Contractor of such variation. If the instructions are given orally, they shall, within two days be confirmed in writing by the Engineer, in the event of any such variation involving an alteration in the cost, or in the period required for completion an agreed revision of contract price and/or time of completion may be made, any such alterations should be deemed part of the Contract.
   b) No variation, alteration or addition to the work indicated in the Specification and/or Drawing shall be made unless the written instruction of the employer has been obtained.

5 Assignment of Contract
   1) The Contractor shall remain responsible to the Employer for workmanship and manner of workmanship defaults and neglects of any sub-contractor or agent or workman employed by him.

6 Supply Materials
   1) The Contractor shall within the agreed contract price, supply such materials as required and detailed by the Specifications

7 Setting Out
   1) The Contractor shall be responsible for setting out of the work.

8 Workmanship
   i. The Contractor shall at all times carry out his works in accordance with the laws of the Colony.
   ii. The Employer may from time during the course of the Contract inspect any completed or part-completed work of the Contractor. If the Employer is not satisfied with such work, he in writing, inform the Contractor of his dissatisfaction.
   iii. Not withstanding any such progress inspection by the Employer the Contractor shall at all times carry out the Contract in a workman-like manner. On completion of the works, the Contractor shall satisfy the Employer as to the quality and fitness of the work.
9 Removal of Debris

The Contractor shall remove all debris caused by their work from time to time as it accumulates and shall leave the site clean on completion of the Contracted Works.

10 Supervision of Works and Skilled Workmen

a) The Contractor shall provide all necessary superintendence during the execution of the works.

b) The Contractor shall employ in and about the execution of the Works only such persons who are carefully skilled and experienced in their several trades.

c) The Supervising Officer may (but not unreasonably or vexatiously) issue instructions requiring the exclusion from the Works of any person employed thereon.

11 Contractor’s Plant

The Contractor shall provide at their own cost all tools, and other plant necessary for the purpose of carrying out the specified Work in an organized and expeditious manner.

12 Payment Fees

The Contractor shall be responsible for the payment of all fees necessary for the completion of the Contract required by an Statutory Authority within or without the Colony.

13 Safety

a) The Contractor is responsible for the safety of all persons employed by him.

b) He shall in no way carry out any work that could be seen to endanger the life of any of his employees or of any member of the general public, including any other employee of the employer.
14 **Injury to or death of a person**

The Contractor shall be liable for and shall, indemnify the Employer against any expense, liability, loss, claim or proceedings whatsoever arising under any statute or at Common Law in respect of personal injury to or death of any person whomsoever arising out of or in the course of or caused by the carrying out of the Works.

15 **Damage to Property**

The Contractor shall be liable for and indemnify the Employer against any expense, liability, loss, claim or proceedings in respect of any damage whatsoever to any property real or personal insofar as such damage arises out of or in the course of or by reason of the carrying out of the Works and is due to any negligence, omission and default of the Contractor is responsible.

16 **Evidence of Insurance**

The Contractor shall produce such evidence as the Employer may reasonably require that the insurance’s referred to herein have been taken out and are in force at all material times.

17 **Traffic Control**

Due to the nature of the Works it will be the responsibility of the Contractor to ensure that a system of traffic control is in operation, including no vehicular access, if necessary.

18 **Payment to the Contractor**

Payment to the Contractor will be made after the issue of an Engineer’s certificate based on the amount of work completed to date. A retention of 5% will be held from the value of each certificate up to a maximum of 3% of the contract sum. Such retention money will be released at the end of the warranty period provided that all works and repairs have been executed to the satisfaction of the employer.

19 **Warranty Period**

A warranty period of 12 months is part of the Contract agreement, during which time the Contractor bears the full responsibility for the execution of maintenance of the works and any repair or correction which might become necessary due to the failure and incorrect performance of the Contractor.
20 **Handing Over Completed Works**

The Contractor shall notify the Employer in writing of his completion of the contracted Works. Said work shall be subject to the satisfaction of the employer and the statutory body having jurisdiction that all the works is completed and in good order. The supervising Officer shall certify the date when in his opinion, the works have reached practical completion. This date shall be the date of commencement of the warranty period.

21 **Failure to Meet Completion Date**

Should the contractor fail to complete the contracted works within the agreed time he shall be subject to a fine of 1% of the contract price a day, for every day the completion is overdue.

22 **Matters not Contained in the Contract**

Any matter not explicitly provided for within this Contract shall be in the matter of a separate agreement between the Employer and Contractor. Any such agreement shall be part of his Contract.

23 **Matter of Disagreement**

If a dispute arises under this Contract, the parties agree that they would first exhaust the provisions outlined in sections 46, 47 and 48 of the Public Finance (Management and Accountability) Procurement regulations 2012. If the parties fail to come to an amicable resolution through the provisions outlined above, then the dispute shall be settled with the help of a mutually agreed-upon mediator in Montserrat. The parties shall share any costs and fees other than attorney fees associated with the mediation equally.

24 **Contracts Documents**

a) The Contractor shall receive two complete copies of Contract Documents
b) Subsequent to the commencement of the Contract, the Contractor shall receive a copy of all additions to and amendments to the Specifications or drawings.

25 **DETERMINATION OF THE CONTRACT**

1) Default by the Contractor

If, before the date for practical completion, the Contractor shall make a default in any one or more of the following respects:

a) Without reasonable cause he wholly or substantially suspends the carrying out
of the works, or

b) He fails to proceed regularly or diligently with the works, or

c) He refuses or neglects to comply with a written instruction given by the Engineer and by such refusal or neglect the works are materially affected

The Engineer may give to the Contractor a notice specifying the default or defaults.

If the Contractor continues with the default for 14 days from the issue of the notice under the contract the Employer may by a further notice to the Contractor determine the employment of the Contractor under this Contract. Such determination shall take effect on the date of receipt of such further notice.

A notice of determination shall not be given unreasonably or vexatiously.

2) Consequences of determination under clause 25.1.

The Engineer shall determine the amount due to the Contractor which shall include loss, damage or expenses incurred by the Employer as a direct consequence of the determination. A final payment certificate will be prepared accordingly.

3) Determination by the Contractor or Employer

If, before the date of practical completion, the carrying out of the whole or substantially the whole of the uncompleted works is suspended by reason of one or more of the events stated below for a period of three months or more

a) Force majeure, or

b) The Engineers instruction

Then the Contractor or the Employer may upon expiry of the period of the suspension gives notice to the other that unless suspension is terminated within 7 days after the receipt of such notice.

The Employer shall pay to the Contractor, the total value of the work properly executed at the date of determination of the employment of the Contractor, such value ascertained in accordance with the conditions as if the employment of the Contractor had not been determined.

A notice of determination shall not be given unreasonably or vexatiously.
26 SUSPENSION OF THE UNCOMPLETED WORKS

a) The Engineer may issue instructions in regard the postponement of any or all the works to be executed under this contract.

27 CONTRACTOR PERFORMANCE REPORT

a) It is a requirement of the Client for the Engineer to assess the performance of the Contractor upon completion of the agreed works. The assessment will be based on the following criteria;

i. The project deliverables achieved,
ii. Organization & management of works,
iii. Quality of work provided,
iv. Health & Safety plan implementation,
v. Management of Finances & budget,
vi. Technical performance & adherence to specifications,
vii. Completion time and scheduling.

b) The assessment has an overall maximum score of 1 and the following are the rating that can be achieved;
   1.00 – 0.75 = Very Good Performance
   0.74 – 0.50 = Good Performance
   0.49 – 0.25 = Poor Performance
   0.24 – 0.10 = Very Poor Performance

c) If Contractor has attained an overall score less than 0.50 at the end of the contract performance reporting period, the Contractor will be subjected to sanctions by procuring entities.

d) Once a contractor has attained a first score of less than 0.50 which indicated poor performance, he/she will be sanctioned and is allowed to bid on projects that has an estimated value EC$50,000 or less. This sanction will be implemented for 12 months.

e) If the Contractor has a second score on another project less than 0.50, the Contractor will be suspended from being eligible to bid on any project regardless of the value. This suspension and sanctions will run for 1 year.

f) After a 1-year suspension or sanction, the Contractor will only be allowed to bid only on contracts valued at EC$ 50,000 or less. If on this occasion the Contractor’s score is 0.75 or greater only then will he be allowed to bid on contracts valued above EC$50,000. If his score is less than 0.75 but is equal to or greater than 0.5, he will only be allowed to bid contracts valued at $50,000 or less until he can achieve a higher score.
## Government of Montserrat

### CONTRACT PERFORMANCE REPORT

<table>
<thead>
<tr>
<th>GoM Contract Ref</th>
<th>Start Date</th>
<th>Contractual Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Service/Item Code</th>
<th>Contractor &amp; VDB No (if known)</th>
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</thead>
<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Delivery Point</th>
<th>Project &amp; Contract Title</th>
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</table>

<table>
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<tr>
<th>Original Contract Value</th>
<th>Original Programme (weeks)</th>
<th>Actual Completion Date:</th>
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</table>

<table>
<thead>
<tr>
<th>Completion Value (if agreed)</th>
<th>Final Programme (weeks)</th>
<th>Would you use them again?</th>
</tr>
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<tr>
<td></td>
<td></td>
<td>Yes / No</td>
</tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Any problems with performance or advance payment guarantees?</th>
<th>Yes / No</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Comments</th>
<th>CP score</th>
<th>5 - as appropriate</th>
<th>4 - good</th>
<th>3 - poor average</th>
<th>2 poor</th>
<th>1 awful</th>
</tr>
</thead>
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</tbody>
</table>

### Organisation

### Quality

### Personnel

### Environment

### Safety

### Commercial

### Manufacturing

### Technical

### Time

Additional information (if necessary amplifying comments, eg why would you use them again if they had scored poorly, were delays/increases in cost the fault of the supplier):

Signed (Project Officer) | Date:
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<tr>
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</table>
EVALUATION OF TENDER

Evaluation Criteria

The following evaluation criteria will be used to evaluate tenders received in response to this Invitation to Tender provided. The Administrative Compliance would be applied before the remaining criteria and is either pass or fail with failure meaning that bids would be deemed Non-compliant. **Tenders must achieve a minimum score of 65% to be considered for award of contract.**

<table>
<thead>
<tr>
<th>Criteria Description</th>
<th>Weight (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Compliance</td>
<td>Pass / Fail</td>
</tr>
<tr>
<td>Financial Compliance</td>
<td>60</td>
</tr>
<tr>
<td>Technical Compliance &amp; Tenderer’s Experience</td>
<td>40</td>
</tr>
</tbody>
</table>

Tenderers that fail to meet the above qualifying score will be rejected and not considered for award of contract.

**Administrative Compliance (Pass/Fail)**

Tenderers must submit all the documents requested in the tender document. The tender checklist provides a list of requirements which need to be fulfilled. All Tenderers are required to fully complete the Form of Tender including the commencement time and the proposed completion time which are highlighted. In addition they need to fully complete the Bill of Quantities provided. A valid Tax Compliance Certificate need to be submitted with their submission. Tenderers should sign and date the Anti-Collusion statement. Similarly details of previous experience must be submitted in accordance with the Technical Compliance below. This is a pass/fail criteria. If **all** the above requirements are fulfilled then the tenderer would move onto the other evaluation criteria. If any of the above mentioned items are not submitted then the tender would be deemed non-compliant and rejected.

**Financial Compliance (60%)**

Tenderers must complete the Form of Tender and the Bill of Quantities and return them with their tender submission. The tendered price is a significant factor and the Government of Montserrat will seek to ensure that the works are undertaken at the most economically advantageous price. However, there are other factors which comprise the criterion and these will be considered proportionately. Government of Montserrat is not bound to accept the lowest or any tender. The percentage for this criterion will be calculated proportionately in comparison to other price submissions from tenders.
**Technical Compliance & Experience (40%)**

Adherence to the technical specification is paramount to tenderers achieving success in the evaluation process. Prospective tenderers need to provide details of at least 2 previous contracts completed within the past 10 years of a similar nature to the scope of works of this tender with a value of a minimum $50,000.00 for material and labour and a minimum value of $20,000 for labour only. These details should include but are not limited to the following; the entity or person for which the work was completed, contact information for the entity or person, the value of the works, the location of the works. In addition the prospective tenders can submit award letters for works in lieu of the above mentioned information. The percentage for this criterion will be calculated proportionately in comparison to other submissions from tenders.

<table>
<thead>
<tr>
<th>Start Date or Date of Award</th>
<th>Description of Works</th>
<th>Name of Client</th>
<th>Price of Contract</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>
GOVERNMENT OF MONTSERRAT
TENDER SUBMISSION ANTI-COLLUSION CERTIFICATE

I/WE CERTIFY THAT THIS TENDER IS MADE IN GOOD FAITH, AND THAT WE HAVE NOT FIXED OR ADJUSTED THE AMOUNT OF THE TENDER BY OR UNDER OR IN ACCORDANCE WITH ANY AGREEMENT OR ARRANGEMENT WITH ANY OTHER PERSON. I/WE ALSO CERTIFY THAT WE HAVE NOT AND I/WE UNDERTAKE THAT WE WILL NOT BEFORE THE AWARD OF ANY CONTRACT FOR THE WORK:

DISCLOSE THE TENDER PRICE OR ANY OTHER FIGURES OR OTHER INFORMATION IN CONNECTION WITH THE TENDER TO ANY OTHER PARTY (INCLUDING ANY OTHER COMPANY OR PART OF A COMPANY FORMING PART OF A GROUP OF COMPANIES OF WHICH I AM/WE ARE A PART OF) NOR TO ANY SUB-CONTRACTOR (WHETHER NOMINATED OR DOMESTIC) NOR SUPPLIER (WHETHER NOMINATED OR DOMESTIC) OR ANY OTHER PERSON TO WHOM SUCH DISCLOSURE COULD HAVE THE EFFECT OF PREVENTING OR RESTRICTING FULL COMPETITION IN THIS TENDERING EXERCISE

ENTER INTO ANY AGREEMENT OR ARRANGEMENT WITH ANY PERSON THAT THEY SHALL REFRAIN FROM TENDERING, THAT THEY SHALL WITHDRAW ANY TENDER ONCE OFFERED OR VARY THE AMOUNT OF ANY TENDER TO BE SUBMITTED OR OTHERWISE COLLUDE WITH ANY PERSON WITH THE INTENT OF PREVENTING OR RESTRICTING FULL COMPETITION

PAY, GIVE OR OFFER PAY OR GIVE ANY SUM OF MONEY OR OTHER VALUABLE CONSIDERATION DIRECTLY OR INDIRECTLY TO ANY PERSON FOR DOING OR HAVING DONE OR CAUSING OR HAVING CAUSED TO BE DONE IN RELATION TO ANOTHER TENDER OR PROPOSED TENDER FOR THE WORK ANY ACT OR THING OF THE SORT DESCRIBED AT I), II) OR III) ABOVE.

I/WE FURTHER DECLARE THAT I/WE HAVE NO KNOWLEDGE EITHER OF ANY SUM QUOTED OR OF ANY OTHER PARTICULARS OF ANY OTHER TENDER FOR THIS CONTRACT BY ANY OTHER PARTY.

I/WE FURTHER CERTIFY THAT THE PRINCIPLES DESCRIBED ABOVE HAVE BEEN, OR WILL BE, Brought TO THE ATTENTION OF ALL SUB-CONTRACTORS, SUPPLIERS AND ASSOCIATED COMPANIES PROVIDING SERVICES OR MATERIALS CONNECTED WITH THE TENDER AND ANY CONTRACT ENTERED INTO WITH SUCH SUB-CONTRACTORS, SUPPLIERS OR ASSOCIATED COMPANIES WILL BE MADE ON THE BASIS OF COMPLIANCE WITH THE ABOVE PRINCIPLES BY ALL PARTIES.

I/WE ACKNOWLEDGE THAT ANY BREACH OF THE FOREGOING PROVISIONS SHALL LEAD AUTOMATICALLY TO THIS TENDER BEING DISQUALIFIED AND MAY LEAD TO CRIMINAL OR CIVIL PROCEEDINGS. THE GOVERNMENT OF MONTSERRAT SHALL TREAT ANY TENDER RECEIVED IN CONFIDENCE BUT RESERVES THE RIGHT TO MAKE THE SAME AVAILABLE TO ANY OTHER FUNDING ORGANISATION OR STATUTORY REGULATORY AUTHORITY EITHER HAVING JURISDICTION OVER THE WORKS OR WHO MAY NOW OR AT ANY TIME IN THE FUTURE HAVE STATUTORY POWER TO REQUIRE DISCLOSURE OF THIS TENDER.

IN THIS CERTIFICATE, THE WORD ‘PERSON’ INCLUDES ANY PERSONS AND ANY BODY OR ASSOCIATION, INCORPORATED OR UNINCORPORATED; ANY AGREEMENT OR ARRANGEMENT INCLUDES ANY TRANSACTIONS, FORMAL OR INFORMAL AND WHETHER LEGALLY BINDING OR NOT; AND ‘THE WORK’ MEANS THE WORK IN RELATION TO WHICH THIS TENDER IS MADE.

SIGNATURE………………………………………………. IN CAPACITY OF ……………………………………….
DATE……………………………………………………2016

DULY AUTHORISED TO SIGN TENDERS AND ACKNOWLEDGE THE CONTENTS OF THE ANTI-COLLUSION CERTIFICATE FOR AND ON BEHALF OF:

NAME OF FIRM……………………………………………………………………………………………………
FULL POSTAL ADDRESS…………………………………………………………………………………………
TELEPHONE NO……………………………….. FAX NO ………………………………………….
FLOOR PLAN
SCALE 1/4"=1'-0"

HOSPITAL MAINTENANCE SHED

1" x 3" timber casing around edge of window face typ.

Timber partition w/ 2"x4" studs @ 16" c/c typ. & 3/8" form ply facing.

T1-11 exterior formply on 2"x4" studs @ 16" c/c typ. & 3/8" interior formply facing.

WINDOW SCHEDULE

<table>
<thead>
<tr>
<th>SYM</th>
<th>QNT.</th>
<th>SIZE</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>9</td>
<td>48&quot;x48&quot;</td>
<td>ALUMINIUM LOUVRE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>W/ 2&quot; LOUVRE INSERT</td>
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</tbody>
</table>

DOOR SCHEDULE

<table>
<thead>
<tr>
<th>SYM</th>
<th>QNT.</th>
<th>SIZE</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>2</td>
<td>30&quot;x80&quot;</td>
<td>ALUMINIUM W/ 2&quot; LOUVRE INSERT</td>
</tr>
<tr>
<td>D2</td>
<td>1</td>
<td>72&quot;x80&quot;</td>
<td>ALUMINIUM W/ 2&quot; LOUVRE INSERT</td>
</tr>
</tbody>
</table>
EXISTING 20'-3" X 40'-4" CONCRETE SLAB

FOUNDATION PLAN
SCALE 1/4"=1'-0"
SECTION A-A
SCALE 3/8" = 1'-0"
DETAIL 1
SCALE 1/2" = 1'-0"

2" x 4" Wall Stud
2" x 4" Floor plate
Existing RC Concrete Slab
2" x 4" Floor plate anchored with bolts into existing RC concrete slabs. Bolts placed @ 4' o.c.
T1-11 Overhanging existing concrete slab

2" x 4" Spacer Block
MIN. 12" LONG

CORNER FRAMING ISOMETRIC DETAIL
SCALE 1/2" = 1'-0"

2" x 4" Stud
GALV. CORNER TIE BOTH SIDES TYPICAL
2" x 4" Bottom Plate, Bolted to Floor
CONCRETE FLOORING
T1-11 Exterior Plywood Typical

DETAIL 2 (RAFTER TO TOP PLATE CONNECTION DETAIL)
SCALE 1/2" = 1'-0"

2" x 4" Rafter Typ
Hurricane Tie to attach Rafter to Top Plate on both sides.
2" x 4" Double Top Plate.
2" x 4" Stud
ROOF FRAMING PLAN

SCALE 1/4" = 1'-0"
ELECTRICAL PLAN
SCALE 3/16"=1'-0"

**Panel A Circuit Schedule**

<table>
<thead>
<tr>
<th>CIRCUIT NO.</th>
<th>DESCRIPTION</th>
<th>NO. OF POINTS</th>
<th>MCB RATING (A)</th>
<th>CABLE SIZE (MM²)</th>
<th>EST LENGTH (M)</th>
<th>EST LOAD (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LIGHTS</td>
<td>10</td>
<td>5</td>
<td>1.0</td>
<td>3</td>
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</tr>
<tr>
<td>2</td>
<td>OUTLETS</td>
<td>5</td>
<td>20</td>
<td>2.5</td>
<td>16</td>
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<tr>
<td>3</td>
<td>OUTLETS</td>
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<td>Transformer/Three phase</td>
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<td>30</td>
<td>6.0</td>
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**Panel B Circuit Schedule**

<table>
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<tr>
<th>CIRCUIT NO.</th>
<th>DESCRIPTION</th>
<th>NO. OF POINTS</th>
<th>MCB RATING (A)</th>
<th>CABLE SIZE (MM²)</th>
<th>EST LENGTH (M)</th>
<th>EST LOAD (A)</th>
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</thead>
<tbody>
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<td>OUTLETS</td>
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<td>OUTLETS</td>
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<td>20</td>
<td>2.5</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

**Notes:**
- All electrical work must be done by a certified electrician.
- All power outlets to be placed 18" above floor level, unless indicated otherwise on the electrical plan.

**Symbols and Descriptions**

- SINGLE POLE SWITCH 40 A A/F
- TWO WAY SWITCH 40 A A/F
- 120V OUTLET 16 A A/F
- WALL MOUNTED FUTURISTIC WEATHER PROTECTED
- 400 VOLT DISTRIBUTION PANEL
- 120 VOLT DISTRIBUTION PANEL
- EARTHING - 6 x 1/2" COPPER ROD
- MOPED METAL AND Pails
- 3 PHASE ISOLATOR
- 3 PHASE MAIN CONTACTOR

**Project:** Hospital Maintenance Workshop

**Drawing:** Electrical Plan

**Scale:** 3/16"=1'-0"