FINANCIAL SERVICES COMMISSION BUILDING
Little Bay, Montserrat

Part B-Work Requirements

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Part B

1.0-5.0: Bill of Quantities

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1.0 PRELIMINARIES & GENERAL MATTERS

LOCATION OF SITE

A The site is located at Road 1 North on the way to Little Bay. Access to the site is by way of Road 1 North.

SITE RESTRICTIONS AND LIMITATIONS

B The Contractor must do his best in order to prevent vibration, dust and noise emanating from the works being a nuisance and causing disruption to the normal operations of the Museum.

C The Contractor must put adequate measures in place in order to ensure that debris emanating from the work does not accumulate on the public road or the internal road or hinder the public from using the public road in any way.

MATERIALS EXCAVATED FROM THE SITE

D The Contractor must not excavate to obtain excavated material for his own use. Any excavated material obtained from the authorised excavations shall be the property of the Employer and may, if approved, be used in the works.

PRELIMINARY INVESTIGATIONS

E The Contractor must satisfied himself as to local conditions, means of access, necessity for and extent of temporary drainage, location of existing services, the extent and nature of the site and work, the restrictions and limitations, the conditions under which work will be carried out, conditions affecting the supply of labour and materials, storage space for materials and plant and generally of all conditions which may in any way affect his costs. Any information known to the Employer which the Contractor could not be aware of which in turn will have an impact on the cost, may be the subject of a claim for additional costs.

To Collection	

Preliminaries Cont'd

A DESCRIPTION OF THE WORK

The work consists of the construction of a new office building approximately 10,000 square feet in area. There are three floors to the building.

The construction comprises the following:

- Reinforced concrete frame, upper floors and roof.
- Walls are generally eight and six inch blockwork.
- Windows are UPVC frames with tinted tempered glass and Aluminium hurricane shutters.
- Doors are solid core flush doors internally and glazed doors externally.
- Wall finishes are cement and sand render internally and externally, painted internally and trowel externally.
- Floor finishes are Porcelain tiles.
- Ceiling finishes are acoustic ceiling tiles in metal grind and painted concrete.

Services include electrical installation, plumbing installation, air conditioning installation, fire alarm and voice and data.

External works includes paving, landscaping and drainage work.

The foregoing is an outline description of the works, full details may be obtained from the Specifications and Drawings.

SIZES OF BUILDINGS

C The Contractor is referred to the drawings for the sizes of the proposed buildings and the Scope of the Works. All drawings and forms of contract may be inspected at the office of the Architect.

To Collection	

DRAWINGS

A The drawings are listed below:

Architectural Drawings

L-00	Site Location Map
L-01	Existing Site Plan
L-02	Proposed Site Plan
L-03	Site Section
A-01	Level 1 Floor Plan
A-01.1	Level 1 Furniture Plan
A-02	Level 2 Floor Plan
A-02.1	Level 2 Furniture Plan
A-03	Level 3 Floor Plan
A-03.1	Level 3 Furniture Plan
A-04	Roof Plan
A-05	Door Schedule
A-05.1	Door Elevations
A-06	Storefront Plan Details
A-06.1	Interior Store Front Details
A-06.2	Interior Store Fronts
A-07	Longitudinal Section A-A
A-08	Cross Section B-B
A-09	Cross Section C-C
A-10	North and South Elevation
A-11	West Elevation
A-12	East Elevation
A-13	Window Schedule
A-14	Window Details
A-14.1	Exterior Store Front Details
A-15	Wall Panel Details
A-16	Exterior Wall Sections 1
A-16.1	Exterior Wall Sections 2
A-17	Interior Wall Sections 1
A-17.1	Interior Walls Sections 2
A-18	Interior Stair Section
A-19	Exterior Stair Section
A-20	Exterior Stair Section
A-21	Kitchen Details
A-22	Kitchen Details
A-22.1	Washroom Details
A-23	Kitchen Details

Architectural Drawings (Cont'd)

A23.1	Washroom Details
A-24	Kitchen Details
A-24.1	Washroom Details
A-24.2	Washroom Details
A-26	Finishes Schedule Part 1
A-26.1	Finishes Schedule Part 2
A-29	Driveway Sections

Structural Drawings

S1.00	Foundation Plan
S1.01	Foundation Details 1
S1.02	Foundation Details 2
S1.10	Section Details
S2.00	Basement Reinforcement Plan
S3.00	Ground Floor Reinforcement Plan
S3.01	Ground Floor Reinforcement Details 1
S3.02	Ground Floor Reinforcement Details 2
S3.03	Ground Floor Reinforcement Details 3
S4.00	First Floor Reinforcement Plan
S4.01	First Floor Reinforcement Details 1
S4.02	First Floor Reinforcement Details 2
S4.03	First Floor Reinforcement Details 3
S4.04	First Floor Reinforcement Details 4
S5.00	Roof Slab Reinforcement Plan
S5.01	Roof Slab Reinforcement Details 1
S5.02	Roof Slab Reinforcement Details 2
S5.03	Roof Slab Reinforcement Details 3
S6.00	Stair Details 1
S6.01	Stair Details 2
S6.02	Stair Details 3
S6.03	Stair Details 4
S6.04	Stair Details 5
S7.00	Structural Details 1
S7.01	Structural Details 2
S7.02	Structural Details 3
S8.00	Wall Elevations & Details 1
S8.01	Wall Elevations & Details 2
S9.00	General Structural Details

Structural Drawings (Cont'd)

S10.00	General Site Details
S11.00	Site Drainage Plan

MEP Drawings

E-01	Electrical Site Plan
E-02	External Lighting Layout
E-03	External Grounding Layout
E-04	Level 1 Lighting and Fire Alarm Layout
E-05	Level 1 Power Layout
E-06	Level 2 Lighting and Fire Alarm Layout
E-07	Level 2 Power Layout
E-08	Level 3 Lighting and Fire Alarm Layout
E-09	Level 3 Power Layout
E-10	Level 1 HVAC Power Layout
E-11	Level 2 HVAC Power Layout
E-12	Level 3 HVAC Power Layout
E-13	Main Electrical Single Line Schematic
E-14	Panel Schedules
E-15	Level 1 Security Layout
E-16	Level 2 Security Layout
E-17	Level 3 Security Layout
P-01	Wastewater Site Plan
P-02	Water Reticulation Plan
P-03	Wastewater Level 1 Layout
P-04	Wastewater Level 2 Layout
P-05	Wastewater Level 3 Layout
P-06	Water Reticulation Level 1 Layout
P-07	Water Reticulation Level 2 Layout
P-08	Water Reticulation Level 3 Layout
AC-02	Level 1 HVAC Layout
AC-03	Level 2 HVAC Layout
AC-04	Level 3 HVAC Layout
AC-05	Level 1 VRF Piping Layout
AC-06	Level 2 VRF Piping Layout
AC-07	Level 3 VRF Piping Layout
AC-08	HVAC Ductwork Details
AC-09	HVAC Piping Details

Bills Of Quantities

A The Tenderer's attention is specifically drawn to the fact that the Bills have been prepared generally in accordance with the SMM7 as issued by the Royal Institution of Chartered Surveyors and the Construction Confederation Seventh Edition Revised 1998 and adapted for local use. The Tenderer shall allow in his tender for any items required but not measurable in his rates and prices for the work.

Tenderers are required to submit with their tender a copy of the Bills of Quantities priced in Eastern Caribbean (EC$) fully extended out to agree with the total Tender amount. It is emphasized that all items, including those contained in these Preliminaries, must be individually priced.

B Day Works & Optional Works: The Contractor shall insert prices to the Day Works and Optional Works schedules separate and apart from the Bill of Quantities. These prices shall not be included in the Tender sum and shall only be used if necessary during contract works as directed by the Architect.

C Ordering Materials: The necessary particulars for ordering materials are to be obtained from the full details and information which shall be approved by the Architect. The Contractor must not use the Bills of Quantities for this purpose. No claims will be admitted in respect of materials which have been ordered without such details and information being sought.

D Conflicting Clauses: In the event of any descriptions within the Bills of Quantities being at variance, in conflict or inconsistent with the Architect's, Structural Engineer's or Services Engineer's drawings or Specification or with the manufacturers printed recommendations then the requirements of the specification or manufacturer's recommendation will prevail.

To Collection	

Tenders

Forms of Tender

A All prices inserted shall be based upon the cost of labour and materials and other services current at the date of tender.

The form of tender shall be completed quoting firm prices on the basis that there shall be no adjustment to the Contract Sum for fluctuations in prices and any differences in the price between the total on the Summary page and the Form of Tender shall be taken into account by an adjustment to the amount of the Preliminaries and the Bill of Quantities.

Validity of Tender

B The offer shall be open for a period of 120 days from the closing date for the submission of Tenders.

Alterations to Documents

C No alterations in the text of these documents shall be made by the Contractor tendering unless so instructed in writing. Should any alteration, amendment note or addition be so made, the same will not be recognised but the reading of the printed documents will be adhered to. If the Contractor wishes to make an observation as to the printed text in connection with the rates he has inserted, this shall be in the form of a covering letter.

Pricing

D Every price or rate inserted into the documents by the Contractor shall be in ink. The Contractor's prices for any items against which he does not insert prices will either be deemed to be included in items against which prices have been inserted or assumed that he will perform this work or service free of charge.

To Collection	

Currency

A All prices and sums contained in and mentioned in these documents and all prices inserted by the Contractor shall be in Eastern Caribbean dollars. Materials and goods required specifically for this project shall be deemed to include for the provision of all labour, materials and return of empties, the erection, maintenance, adjustment and removal of scaffolding, temporary stagings, plankways, protection, hoardings, etc., and for all other things necessary for the completion of the works in accordance with the drawings and specification to the reasonable satisfaction of the Architect.

Visiting Site

B Persons shall at their own expense, visit the site of the works and obtain for themselves on their own responsibility all information that may be necessary for negotiating and entering into a contract and must examine the Contract Documents and inspect and consider the site and its surroundings.

Obtaining Information

C Any neglect or failure on the part of the Contractor to obtain reliable information upon any matters affecting the execution, construction, completion and maintenance of the works shall not relieve him from any risks or liabilities for the completion of the works, nor will any claim for increase of the Contract Sum or extension of the Contract period be entertained as a result of such neglect or failure.

Lump Sum Additions or Deductions to arrive at Tender

D If the Contractor, to arrive at the amount of the contract shall have added to or deducted from the total any sum either as a percentage or proportionate sum, it shall be added to or deducted from the amount of variations in the same percentage or proportion, provided always that in determining the percentage or proportion of the sum so added or deducted by the Contractor the total amounts of any provisional sums of money shall previously be deducted from the contract sum.

To Collection	

Queries

A The Contractor shall refer all queries arising out of any of the documents to the Architect whose decision, shall be final.

Import Duty and other Tax Concessions

B Imported materials and goods required specifically for this project shall be free of excise duties.

Correction of Errors

C Errors will be corrected by the Employer as follows:

(a) where there is a discrepancy between amounts in figures and in words, the amount in words will govern: and

(b) where there is a discrepancy between the unit rate and the total amount derived from the multiplication of the unit rate and the quantity, the unit rate as quoted will govern, unless, in the opinion of the Employer, there is an obviously gross misplacement of the decimal point in the unit rate, in which event the total amount as quoted will govern and the unit rate be corrected.

Contract Particulars

Conditions of Contract

D The works embraced in this contract shall be carried out in accordance with the Standard Building Contract with Quantities, Revision 2, 2009 altered to suit local conditions.

A copy of the contract conditions is included in this document.

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Definitions

A The term 'approved' 'directed' or 'selected' means the approval, direction and selection by the Architect unless otherwise described.

B Where the term 'allow' occurs in this document the cost of the item is at the risk of the Contractor.

C The abbreviations 'BS and CP' mean the latest British Standard Specification and British Code of Practice respectively.

D The term 'local' means Montserrat.

E All sums of money quoted in this document shall be in local currency East Caribbean dollars.

Abbreviations

F The following abbreviations are used:

B.Q.	Bill(s) of Quantities
B.S.	British Standard
C.P.	Code of Practice
SMM	Standard Method of Measurement 6th Edition
LY	Linear Yards
SY	Square Yards
CY	Cubic Yards
L.Ft.	Linear Feet
S.Ft.	Square Feet
C.Ft.	Cubic Feet
Hr.	Hour
Pr.	Pair
Lb.	Pounds

One Document

G Read the Conditions of Contract, and Specifications, the Bills of Quantities and drawings as one document and carry out everything for the proper execution of the Works whether or not specifically described or shown therein, provided the same may reasonably be inferred therefrom.

To Collection	

Discrepancies

A Verify on drawings or on site all dimensions shown or given before commencing construction. Work to figured dimensions only and in the absence of any dimensions, or cases of discrepancies between dimensions, bring the matter to the immediate attention of the Architect for a decision. For the purpose of construction, the drawings shall take precedence over the Bill of Quantities but in all cases of discrepancies between the documents, bring the matter to the attention of the Architect whose decision shall be final and binding.

Copies

B Two copies of the Bill of Quantities and drawings shall be furnished free of charge to the Contractor for his own use until the completion of the contract. They shall be accessible at all reasonable times, to the Architect, to whom they shall be returned at the completion of the Contract. Additional copies will be provided to the Contractor on request and charged at nett cost.

Ordering of Materials

C Prepare own materials ordering list based on the construction drawings and schedules issued and onsite measurements where appropriate. Contract drawings and schedules will be issued on possession of site. At the first site meeting, the Contractor should indicate what information is outstanding and suggest order or priority of receipt of such information to avoid delay by late ordering.

Record Drawings

D Keep accurate records of the Works in a form acceptable to the Architect.

Fire Precautions

E The Contractor is to take all reasonable precautions to avoid the outbreak of fire particularly in work involving the use of naked flames. He is to impress on the workmen the dangers involved in the careless disposal of matches, cigarette ends, etc., and in the accumulation of rubbish on site.

Fire extinguishers are to be kept on site and operatives instructed as to their whereabouts and use.

Smoking is NOT permitted in any part of the premises and it is the Contractor's responsibility to ensure that this condition is met and enforced throughout the contract period.

To Collection	

Plant, tool and vehicles

A Provide all implements, tools, hoists, plant, vehicles, etc., necessary for the proper execution of the works (for scaffolding, see Temporary Works section).

Safety, health and welfare of workpeople

B The Contractor shall, at his own expense, comply in all respects with the requirements of local regulations relating to the safety, health and welfare of operatives and shall provide such mess huts, changing and toilet facilities as are required under local working agreements including providing and maintaining an adequate First Aid kit upon the site or any places where work is being prepared for incorporation into the Works.

Benefits

C Allow for all costs in respect of workpeople including but not limited

to costs arising from the following:

(a) Social Services Scheme
(b) National Insurance including training fund, unemployment, employment injury, severance fund, health service levy and transport levy
(c) Vacation and Public Holidays leave
(d) Sick leave
(e) Cost of Living Allowance
(f) Subsistence Allowance
(g) Bonus payments
(h) Travelling time and expenses
(i) Workman's compensation

and to all other emoluments and expenses payable to or in connection with the employment of persons for the works.

To Collection	

Transport for Work People

A Allow for obtaining an adequate labour force for the Works and include for transporting workers to and from the site, as necessary.

Imported Labour

B The Contractor must comply with all immigration and other laws in force in respect of the importation of supervisory staff, skilled and unskilled labour and allow for security bonds and other payments in this connection.

Overtime

C The contract sum will be deemed to include any overtime working which the Contractor may consider necessary to complete the Works by the date stated. If work is to be executed outside normal working hours, 24 hours notification must be given and the consent of the Architect must be obtained before commencement.

Safeguarding the Works, materials and plant against damage and theft

D Allow for all necessary watching and lighting and protection of the Works, materials, plant, etc., on the site from theft or damage of any kind.

Maintenance of public and private roads

E Make good any damage to roads and footways whether public or private caused by or attributable in any way to the cartage of plant or materials for or by either the Contractor or any sub-contractor under the contract and indemnify the Employer against loss or damage or claims by the Government or others for damage to roads, paths, etc., by reason of unusual traffic or other causes.

The Contractor is also to take reasonable steps to prevent the excessive deposit on adjacent public or private roads, carparks and footways of mud, clay, hazardous waste etc., from his vehicles or those of any sub-contractor under the contract and is to clear away any dangerous deposits attributable to such vehicles.

Allow for providing all necessary temporary crossovers and hard-standings and clear away on completion and make good all damaged areas.

To Collection	

Police Regulations

A The Contractor is to ascertain and comply with all police regulations in regard to access to and from the site and to any works that may be executed in public thoroughfares adjacent to the site.

Additional obligations and restrictions imposed by the Employer

B The Contractor is to carry out the work with the minimum of noise and inconvenience to the occupants of the adjoining properties by the use of plant and equipment incorporating up-to-date methods of sound reduction in accordance with BS 5228.

Positions of all fixed plant installation on site shall be agreed with the Architect.

Access to the site shall be during daylight hours only.

The Contractor must inform the Architect of all working operations of a dangerous nature or which he proposes carrying on outside normal working hours.

In the event that exceptionally noisy operations have to be undertaken, the Contractor shall notify the Architect 24 hours in advance of each operation taking place.

Site Record Book

C The Contractor is to keep on site a site record book in which the Architect or Engineer can enter and confirm verbal instructions given on site. Any verbal instructions given to the Contractor at site meetings shall be deemed to have been given in writing when either entered in the site record book or included in the minutes of the site meetings.

Progress Meetings

D Regular progress meetings will be held throughout the duration of the contract and a principal representative of the Contractor will be required to attend in addition to his senior staff and if specifically requested by the Architect, representatives of any sub-contractors and principal material suppliers.

To Collection	

Programme

A The Contractor shall within twenty eight days after receiving the notice for the Commencement of Works, produce a draft outline programme for the information of the Architect. This draft programme shall indicate the dates for commencement and completion of all works including sub-contractors' work and the delivery dates required for materials from nominated suppliers. The Contractor, shall, not more than four weeks after the date for possession and after agreement of working and delivery dates with sub-contractors and nominated suppliers, produce a draft detailed programme indicating the critical path for the information of the Architect and after making any necessary amendments and after agreement of the programme with the sub-contractors, prepare final copies for all consultants and for his own use.

The Contractor shall allow for preparing any revised programmes which may become necessary and for notifying all sub-contractors and suppliers and consultants of any changes in programme. The production of revised programmes and their issue to the Architect shall not relieve the Contractor of his responsibility under Clause 2.27 of the Conditions of Contract relating to the giving of formal written notice of delays in, or disturbance of, the regular progress of the Works.

Progress chart and reports

B Keep a permanent written record on the site of the progress of the Works. This record shall be open to the inspection of the Architect at all reasonable times.

The record shall show the date of commencement and completion of all trades and parts of the work coming under the Contract. It shall also include particulars regarding daily weather conditions, excavation work, erection and removal of formwork, pouring of concrete, removal of formwork, etc., as well as the number of employees of the various trades engaged on the Works.

Submit a written progress report to the Architect at the end of each month showing, but not limited to the percentage of work completed in each trade shown on the programme and progress chart; quality control matters covered by the Quality Assurance Plan; Environmental Control Plan updates; progress photographs, etc.

Keep up-to-date a copy of the programme marked with coloured crayon to indicate weekly progress on the site compared to the programmed progress. This copy shall be made accessible to the consultants on their request.

To Collection	

A Performance Bond

The Contractor is to insert in the Summary the cost of providing a Performance Bond with an approved insurance company or bank based or fully represented in Montserrat an amount equal to 10% of the Contract Sum, if required by the Employer. Failure to comply with this requirement will mean that the cost of the Performance Bond, if required, will be provided by the Contractor free of charge.

The successful contractor shall be required to enter into the Bond not later than the date for possession of the site.

A specimen Performance Bond is included as an appendix to this document for tenderers' information.

The Bond shall be maintained by the Contractor until such time as he shall receive the Certificate of Making Good Defects.

Where applicable, the Bond shall be executed in accordance with the specimen format and shall be deposited with the Architect until such time as the Performance Certificate has been issued.

Advance Payment

B Should the successful tenderer so request, a mobilisation payment up to an amount of 10% of the contract sum will be considered by the Employer to meet expenditure resulting from the commencement of the Contract. If the contractor requests a mobilization payment he will be required to provide a mobilisation payment guarantee bond issued by an approved insurance company or bank based or fully represented in St. Kitts and Nevis.

No advance shall be granted until:

a) the signing of the Contract;
b) provision to the Employer by the Contractor of the Performance Bond and insurances required under the contract;
c) provision to the Employer by the Contractor of a separate directly liable guarantee for the full amount of the advance which shall remain effective until the advance has been completely repaid by the Contractor out of interim payments under the Contract.

The Contractor shall use the advance exclusively for operations connected with the execution of the Works. Should the Contractor misuse any portion of the advance, it shall become due and repayable immediately and no further advance payments will be made to him.
If the Contract is terminated for any reason whatsoever, the guarantees securing the advances may be invoked forthwith in order to repay the balance of the advance still owed by the Contractor, and the guarantor shall not delay payment or raise objection for any rason whatever.
The advance guarantee shall be released as when advances are repaid. The mobilisation payment if requested, will be recovered in equal installments deducted from interim payment as agreed.

To Collection	

Site Signboard

A The Contractor shall not be allowed to erect a signboard.

B Include the Provisional Sum of $5,000.00 for sample panels, etc., to be expended as directed by the Architect.

Watching and protection

C The site of the proposed works shall be under the Contractor's sole charge from the date of possession to the date of completion of the contract.

Provide all necessary day and night watching to effectively protect the Works and materials stored on site and accept all risks for damage or loss.

The Contractor shall, as he sees fit, provide all that is necessary for the protection of work people, adjoining property and the public and alter, adapt and maintain them as necessary and clear away on completion and reinstate all works disturbed.

To Collection	

Handover of completed work

A A provisional date for handing over the Works shall be agreed and approximately two weeks prior to this, the Architect, subject to his being satisfied that the work is in such a state of readiness, shall compile a 'snag list' of omitted and/or defective items and the formal handover shall not take place until all items on the 'snag list' have
been completed or remedied or shall be conditional upon completion of these.

B The Architect shall arrange for the formal handover normally within one week after satisfactory completion by the Contractor of the 'snag list'.

C At the formal handover, a responsible representative of the Contractor shall accompany the Architect together with such other representatives that the Architect and Employer deem necessary, on an inspection of the Works and if such an inspection shows the Works to be complete in every respect, the Works shall be taken over. Any minor omissions and/or defects found to exist at this point, shall be remedied by the Contractor within seven days.

Contractor's Liability

D The Contractor shall undertake all risks and liabilities arising out of incidental to or connected with the construction, completion and maintenance of the Works. The Contractor's liability shall extend to all risks involved in the execution of the Works with regard to temporary supports, struts, braces, shores and other works of supports, steadying, restraints or upholding and shall, at his own expense, make good damage or defects resulting from the inadequacy or failure of his actions or work in these respects.

To Collection	

Named Sub-Contractors And Suppliers

Attendance

A Provide attendance upon, cut away for and make good after all trades and in all trades performed by own workmen and own sub-contractors and leave perfect on completion.

Provide general attendance on named sub-contractors which shall be deemed to include allocation, for free use by sub-contractors of suitable areas on site for office accommodation and storage of plant and materials, reasonable and free use of scaffolding and hoisting tackle already erected by the Contractor, free use of messrooms, sanitary accommodation and their work and cleaning away rubbish.

Provide special attendance on named sub-contractors, ie. cutting chases and the like, only when specifically instructed so to do following the items in the Bills of Quantities which described the particular named sub-contract work. When a lump sum price is inserted against this item, it shall be adjusted in direct proportion to the amount of the named sub-contract PC sum actually expended.

Provisional and Prime Cost Sums

B The term 'Provisional Sum' shall mean a sum provided for work or for costs which cannot be entirely foreseen, defined, or detailed at the time the tendering documents are prepared. Such sum shall be used in part or in whole as directed by the Architect and shall be deemed to be inclusive of any profit required by the Contractor unless otherwise indicated.

The term 'Prime Cost Sum' or 'PC Sum' shall mean a sum provided for work services to be executed by a sub-contractor named by the Architect, a statutory authority or a public undertaking or for materials or goods to be obtained from a supplier named by the Architect. Such sums may be used in part or in whole as directed by the Architect and shall be deemed to be exclusive of any profit required by the Contractor and provision is made for the addition thereof. When profit is added by the Contractor, the sum so added shall be adjusted in direct proportion to the amount of the PC Sum actually expended.

When a PC Sum is given in the description of any item of work, it shall be taken as a price only for the materials or services referred to (delivered to site unless otherwise stated) and the Contractor shall use this price in the build-up of the rate for the supply and installation of that item of work. The PC price shall be deemed to include the Contractor's cash discount and the Contractor shall be deemed to have allowed in his unit price build-up for the profit, overheads, attendance, etc., he may require on the PC price given. A net adjustment shall be made to the Contractor's build-up price should the service or item selected by the Architect cost more or less than the PC price given.

To Collection	

Named Sub-Contractors And Suppliers-cont'd

A The Contractor shall enter into sub-contracts with each of the named sub-contractors embodying such conditions as would make them liable to him for the obligations he owes to the Employer, including the signing of a Performance Bond, as far as they are applicable to the main contract and are relevant to the sub-contract. The Contractor shall produce the signed sub-contracts for inspection by the Architect before the commencement of any work by the sub-contract will not relieve the Contractor from any of his responsibilities under the Contract.

Provide all named sub-contractors and specialists with proper facilities for carrying out their work and proper means of access thereto.

Ascertain from all named sub-contractors and specialists at the proper time what their requirements are and make the necessary arrangements for them including leaving or forming chases and holes, etc., in the structure. Should either delay or extra expense be occasioned in consequence of any fault on the part of the Contractor in this respect, the penalty for such delay and extra expense incurred shall be borne by the Contractor.

It shall be the responsibility of the Contractor and each sub-contractor to ensure, by means of regular examination, that the work and materials installed by others do not create conditions which would prevent him from satisfactorily carrying out his work and inform the Architect in writing, as soon as such a condition exists. Failure to notify the Architect of such conditions before work is put in hand shall be construed as an acceptance of all preceding work and a waiver of all claims for questions as to its suitability for receiving his work.
At the time of every valuation of the works for certificate purposes, the Contractor is to submit to the Architect or Quantity Surveyor a statement from each of the named sub-contractors, showing:

1. The gross amount (including discounts and retention) claimed in the current certificate.

2. The net amount received from the Contractor to date.

Amounts in respect of named sub-contractors will not be included in valuations unless these statements are received.

It shall be the responsibility of the Contractor to co-ordinate the performance of named suppliers, on site operations of all nominated sub-contractors and to programme and reprogramme as required, the various operations including builders' work in connection with named sub-contractors' and suppliers' work. Regular site meetings should be held by the Contractor with all the named sub-contractors to enable proper co-ordination and the minutes of these meetings are to be sent to the Architect.

To Collection	

Named Sub-Contractors And Suppliers-cont'd

Named Suppliers

A The term 'Fix' (or similar term to the same effect) where prescribed in these Bills of Quantities for the performance of services in connection with materials to be supplied by a nominated supplier, shall in default of express indication to the contrary be deemed to include for taking delivery at site, off-loading, getting in, storing, distributing including hoisting or lowering, assembling and for returning empties, the whole to be at the Contractor's charge and to be included in the rates inserted against the several items to which the description 'fix' applies. All or any damage or breakage sustained by such materials after acceptance of delivery which in the opinion of the Architect, is attributable to the Contractor's neglect of proper precautions, shall be held to be the Contractor's responsibility and all or any replacement or making good of such broken or damaged materials shall be at his expense.

Where materials are to be supplied by an overseas named supplier, the term 'fix' (or similar term to the same effect) shall also include for clearing from the port of entry to Antigua, paying for customs brokerage fees, port and storage charges, bank charges and transportation to the site of the works.

To Collection	

Temporary Works

General

A All temporary works are to be placed on site in positions to be agreed by the Architect.

The price for all temporary works shall include for the provision of works, the hire and maintenance of equipment for as long as required by the work, the removal as required and the making good of any disturbed work or area. Altering, shifting and adapting from time to time as necessary must also be included.

Access and temporary road

B Access to the site is to be by way of Road 1 North.

Provide and maintain any temporary sleeper or other temporary main access to the works from the existing road or adjoining properties as necessary and obtain any way leaves that may be required including those in connection with cranes, where jibs enter the air space over adjoining property.

Temporary lighting and power for the Works

C Provide all temporary lighting and electrical power required for the carrying out of the works including the work of sub-contractors and

install all temporary wiring, etc., and pay all fees and charges and the cost of power consumed.

Water for the Works

D Provide clean water for the works, including the work of all sub-contractors.

Provide all temporary services, temporary plumbing, storage, etc. as required.

Temporary buildings for use by the Contractor

E Provide and maintain proper offices for the Contractor's site staff.

Provide and maintain suitable weathertight sheds and other protection necessary for the storage of materials.

To Collection	

Temporary Works – (Cont'd)

Temporary telephone

A Provide and install a telephone/printer with internet connection in the site office including paying the cost of all the Contractor's calls. Allow for
providing free use of the telephone for the Architect and all other consultants or their appointed representatives for local calls in connection with the Works, clear away at completion and make good all ground disturbed.

Latrines

B Provide and maintain sanitary accommodation for the use of the workmen in conformity with the requirements of the local Sanitary Authority and also deodorise and keep the same in thoroughly clean condition. Chemical closet type latrines must be used.

Temporary hoardings, gantries and the like

C Provide all necessary temporary fences, hoardings, planked footways, guard rails, gantries and the like necessary for the protection of the public, the proper execution of the works and comply with the requirements of the local authority and other official bodies having authority in connection with the works, clear away at completion and make good all ground disturbed.

Provide all necessary fans, hoardings, tarpaulins, flying scaffolds or other protection that may be required for the protection of adjoining property, buildings, the public and persons employed on the Works.

Provide all dust sheets, tarpaulins, temporary roofing, etc., as required and carefully cover up and protect the building and contents during the carrying out of the works.

Provide all temporary rainwater pipes, chutes, ducts, etc, as required.

D A painted timber hoarding 8 feet high and approximately 120 feet long must be erected as directed by the Architect in order to control access to the site.

Access

E The Contractor is to provide at all times during the execution of the works and the defects liability period, proper means of access with ladders, gangways, etc., and the necessary attendance to move or adapt them, as directed for the inspection or measurement of the works by the Architect or his representative.

To Collection	

General Scaffolding

A Provide all scaffolding necessary for the proper execution and completion of the Works including altering, adapting and maintaining during the progress of the Works. Scaffolding shall be in accordance with BS 5973.
If the Contractor should strike any of his scaffolding before ascertaining whether it is required by any sub-contractor, nominated sub-contractor or public undertaking, he must re-erect it at his own expense if so required.

Protecting, drying and cleaning the Works

B Cover up and protect the Works including that executed by sub-contractors during inclement weather or from damage from any occurrence whatsoever. The Contractor shall reinstate at his own expense any work so damaged to the satisfaction of the Architect.

Removing rubbish and cleaning

C Clear away all rubbish and materials from time to time as necessary or as directed by the Architect and leave the site and premises finally clear.

Clean out all gutters and down pipes, clean glass and metal work, scrub floors, etc., oil locks throughout, touch up paintwork and leave the buildings perfectly clean and entirely fit for occupation.

To Collection	

COLLECTION

Amount of Page No. 1	
Amount of Page No. 2	
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Amount of Page No. 23	
Amount of Page No. 24	
1.0 Total Preliminaries Carried to General Summary	

2.0 MEASURED WORKS

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*
2.1	**SUBSTRUCTURE**				
	Ground Work				
	Excavating and filling				
A	Excavating to reduce levels commencing at existing ground level, maximum depth less than 6ft				
B	Excavate pits commencing at reduced ground level, maximum depth less than 3'0"	45	CY		
C	Excavate pits commencing at existing ground level, maximum depth less than 3'0"	27	CY		
D	Excavate trenches commencing at reduce ground level, maximum depth less than 3'0"	73	CY		
E	Excavating rock in trenches commencing at ground level maximum depth less than 3'0"	12	CY		
F	Excavate trench commencing at existing ground level, maximum depth 3'0"	13	CY		
G	Working space allowance to excavations				
H	Reduce level excavations	132	SY		
I	Ditto, pits	56	CY		
J	Ditto, trenches	134	SY		
K	Earthwork support, maximum depth less than 3'0", distance between opposing surfaces less than 6'0"	190	SY		
L	Ditto, maximum depth less than 6'0", distance between opposing surfaces greater than 12'0"	132	SY		
	Disposal				
M	Surface water drainage		Item		
N	Excavated material off site	670	CY		
O	Filling to excavation with selected material arising from the excavation	48	CY		
P	Filling to make up levels with selected granular fill compacted in layers not exceeding 8" before compaction	524	CY		
Q	Sand blinding, thickness less then 8"	23	CY		
R	Form sinking in compacted fill 2'0" wide x 1'0" deep	4	LY		
	To Collection			$	

Item	Description	Qty	Unit	Rate	Amount
2.1	**Substructure (Cont'd)**				
A	Ditto, 12" wide x 16" deep	10	LY		
B	Ditto, 8" wide x 12" deep	4	LY		
C	Apply termite treatment as specified	715	SY		
	Insitu Concrete				
	Mass concrete 2000 psi at 28 days, 3/4" aggregate				
D	Beds, blinding	13	CY		
	Reinforced concrete 4000 psi at 28 days, 3/4" aggregate				
E	Foundations	80	CY		
F	Ground beams	2	CY		
G	Columns	9	CY		
H	Beams	8	CY		
I	Walls, thickness 6-18" with Xypex added in accordance with the manufacturer's instructions	39	CY		
J	Beds, thickness 6"	67	CY		
	Formwork for Insitu Concrete				
K	Foundations, plain and vertical	168	SY		
L	Ground beams	9	SY		
M	Beams and edges of beds, height less than 10"	237	LY		
N	Ditto, curved	15	LY		
O	Columns, isolated	81	SY		
P	Ditto, curved	21	SY		
Q	Walls, vertical	260	SY		
	Reinforcement for insitu concrete				
	Provisional				
	High yield steel reinforcement to BS4449 straight and bent				
R	3/8" diameter bars	2247	Lbs.		
S	1/2" do	9464	Lbs.		
	To Collection			$	

Item	Description	Qty	Unit	Rate	Amount
2.1	**Substructure (Cont'd)**				
A	5/8" do	136	Lbs.		
B	1/4" do, links	68	Lbs.		
C	BRC A142 fabric reinforcement well lapped at joints	398	SY		
	Worked finishes to insitu concrete				
D	Power floating	398	SY		
	Accessories cast into insitu concrete				
E	Sika water bar cat# A-19 or equal and approved cast in	41	LY		
	Masonry				
	Hollow concrete blocks laid in cement and sand 1:4 mortar, filled solidly with concrete 1:2:4 1/2" aggregate reinforced with 1No. 1/2" diameter high yield bar at 16" centres and Brickforce at 2'0", centre horizontally				
F	Walls, 8" thick	90	SY		
G	Ditto, curved	10	SY		
H	Bond 8" thick blockwork to concrete with 2No. 1/4" thick high yield bars 12" long cast into concrete and built into blockwork at 16" centres	50	LY		
	Damp Proofing				
I	500 gauge polyethylene sheet, well lapped at joints	400	SY		
	Drainage Below Ground				
J	6" diameter perforated PVC pipe with solvent welded joints in running length laid in gravel bed	44	LY		
K	Extra for 90 degree bends	4	No.		
L	3/4" stone bed and surround to perforated pipe	12	CY		
M	Geotextile fabric as specified	70	SY		
	Surface finishes				
	5/8" thick cement and sand 1:4 render				
N	Walls, width greater than 12"	175	SY		
O	Apply two coats of bitumen paint to general surfaces	175	SY	40.00	
			Item		
	To Collection			$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.1 Substructure (Cont'd)

Protection

A	Allow for the protection of all of the work contained in this section		Item		

To Collection $

Collection

Amount of Substructure Page 1	$	
Amount of Substructure Page 2	$	
Amount of Substructure Page 3	$	
Amount of Substructure Page 4	$	

2.1 Amount of Substructure To Summary $

Item	Description	Qty	Unit	Rate	Amount
2.2	**FRAME**				
	Insitu Concrete				
	Reinforced concrete 4000 psi at 28 days 3/4" aggregate				
A	Columns	17	CY		
B	Beams	32	CY		
C	Beam, attached deep	46	CY		
D	Walls, thickness 6-18"	42	CY		
	Formwork for Insitu Concrete				
	Sawn formwork				
E	Columns	414	SY		
F	Columns, attached to walls	54	SY		
G	Columns, curved	119	SY		
H	Beams, attached to slabs	701	SY		
I	Ditto, curved	70	SY		
J	Extra over beam formwork for nibs, size 4" x 3"	145	LY		
K	Ditto, but curved	62	LY		
L	Walls, vertical	370	SY		
M	Openings in walls, width less than 10"	6	LY		
N	Diagonal eliptical opening in wall, length 5'0" , width 2'0"	5	No.		
	Reinforcement for insitu concrete				
	Provisional				
O	High yield bars to BS4449, straight and bent				
P	3/8" diameter bars	6511	Lbs.		
Q	1/2" ditto	15026	Lbs.		
R	5/8" ditto	10244	Lbs.		
S	3/4" ditto	1555	Lbs.		
T	1/4" ditto links	326	Lbs.		
U	3/8" do, do	6468	Lbs.		
	To Collection			$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.2 Frame (Cont'd)

Protection

A	Allow for the protection of all of the work contained in this section		Item		
	To Collection			$	

Collection

	Amount of Frame Page 1	$	
	Amount of Frame Page 2	$	
2.2	**Total Amount of Frame To Summary**	$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*
2.3	**UPPER FLOORS**				
	Insitu Concrete				
	Reinforced concrete 4000 psi at 28 days 3/4" aggregate				
A	Slabs, thickness 6"	127	CY		
	Formwork for insitu concrete				
B	Soffits of slabs, thickness less than 8"	667	SY		
C	Edge of suspended slabs, height less than 10"	156	LY		
	Reinforcement for Insitu Concrete				
	Provisional				
	High yield bars to BS4449 straight and bent				
D	1/2" diameter bars	21345	Lbs.		
	Protection				
E	Allow for the protection of all of the work contained in this section		Item		
2.3	**Amount of Upper Floors To General Summary**			$	

Item	Description	Qty	Unit	Rate	Amount
2.4	**ROOF**				
	Insitu Concrete				
	Reinforced concrete 4000 psi at 28 days, 3/4" aggregate				
A	Slabs, thickness 6"	77	CY		
B	Slabs, thickness 6-18"	4	CY		
C	Upstands	19	CY		
	Formwork for insitu concrete				
	Sawn formwork				
D	Soffits of slabs	386	SY		
E	Ditto, left in	36	SY		
F	Sides of upstands, height 10-20"	31	LY		
G	Ditto, height greater than 20"	191	LY		
H	Ditto, do but curved	41	LY		
	Reinforcement for insitu concrete				
	High yield bars to BS4449, straight and bent				
I	1/2" diameter bars	15800	Lbs.		
	Worked finishes to insitu concrete				
J	Power floating to crossfalls	412	SY		
K	Power floating to falls	73	SY		
	Accessories cast into concrete				
L	Rainwater outlets	9	No.		
	Masonry				
	Hollow concrete block laid in cement and sand 1:4 mortar				
M	Walls, 4" thick	50	SY		
N	Ditto, curved	9	SY		
	Surface finishes				
	1/2" thick cement and sand 1:4 render				
O	Walls, width greater than 12"	59	SY	32.00	
	To Collection			$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*
2.4	**Roof (Cont'd)**				
	Water proofing				
	Apply one coat of Aquafin IC crystaline water proofing slurry, colour: white				
A	Roofing, width greater than 12"	549	SY		
B	Working around rainwater outlets	9	No.		
	Disposal Systems				
C	Rainwater outlet, ABS roof drain with Gravel Guard, 3" outlet	9	No.		
	Rainwater Pipework				
D	3" diameter PVC pipe with solvent welded joints in running length fixed with standard pipe clips to walls	101	LY		
E	Ditto, laid in compacted fill	12	LY		
F	Extra for 90 degree bed	9	No.		
	Protection				
G	Allow for the protection of all of the work contained in this section	Item			
	To Collection			$	

Collection

Amount of Roof Page 1	$	
Amount of Roof Page 2	$	
2.4 Total Amount of Roof To Summary	$	

Item	Description	Qty	Unit	Rate	Amount
2.5	**STAIRS**				
	Insitu concrete				
	Reinforced concrete 4000 psi at 28 days, 3/4" aggregate				
A	Staircases	17	CY		
	Formwork for insitu concrete				
	Sawn formwork				
B	Soffits of landings (13No.)	28	SY		
C	Stairflights, width 5'0", waist 7", risers 6" (4No.)	14	LY		
D	Stairflights, width 3'8", waist 7", risers 6" (12No.)	15	LY		
	Reinforcement for insitu concrete				
	Provisional				
	High yield bars to BS4449, straight and bent				
E	1/2" diameter bars	4717	Lbs.		
F	5/8" do	1714	Lbs.		
G	3/4" do	60	Lbs.		
H	3/8" do links	202	Lbs.		
	Protection				
I	Allow for the protection of all of the work contained in this section		Item		
2.5	**Amount of Stairs To Summary**			$	

Item	Description	Qty	Unit	Rate	Amount
2.6	**EXTERNAL WALLS**				
	Masonry				
	Hollow concrete blocks laid in cement and sand 1:4 mortar reinforced with 1No. 1/2" diameter high yield bar at 16" centres, Brickforce at 2'0", centres horizontally and filled solidly with concrete 1:2:4 1/2" aggregate				
A	Walls, 8" thick	398	SY		
B	Bond 8" thick blockwork to concrete with 2No. 1/4" diameter bars 16" long built into blockwork and case into concrete at 16" centres	246	LY		
	Insitu Concrete				
	Reinforced concrete 4000 psi at 28 days 3/4" aggregate				
C	Beams, isolated	6	CY		
D	Sills	2	CY		
	Formwork for insitu concrete				
	Sawn formwork				
E	Beams, isolated	57	SY		
F	Edge of sills, width less than 12"	130	LY		
	Store Fronts				
	Supply, fit and fix:				
	Kawneer IR500 glazed Aluminium store fronts with 2½" x 5" framing, non thermal 9/16" impact resistant glazing and powder coaed finish as detailed on the Architect's drawings				
G	Size 6'0" x 8'8"	8	No.		
H	Size 9'0" x 8'8"	3	No.		
I	Size 9'0" x 8'4"	2	No.		
J	Size 4'7½" x 5'10"	1	No.		
	Protection				
K	Allow for the protection of all of the work contained in this section		Item		
2.6	**Amount of External Walls To Summary**			$	

Item	Description	Qty	Unit	Rate	Amount
2.7	**EXTERNAL DOORS AND WINDOWS**				
	Doors				
A	1¾" x 3'0" x 6'8" solid core flush door with wood veneer facing	2	No.		
B	2" x 3'0" x 6'8" Aluminium faced solid core flush door as manufactured by Oran Limited or similar and approved with powder coated finish	2	No.		
C	2" x 6" dressed treated softwood frame	34	L.ft.		
D	1" x 2" dressed treated softwood door stop	33	L.ft.		
E	1" x 3" dressed treated moulded softwood architrave	34	L.ft.		
F	1¾" x 4" Aluminium frame as manufactured by Oran Limited with bated enamel finish to suit opening 3'4" x 6'10"	2	No.		
	Ironmongery				
	Supply, fit and fix				
G	Pairs of 6" x 4" stainless steel butts as manufactured by Waterson #K51M-640	8	No.		
H	Lever lock set by Kwikset #438CNC 15 satin nickel finish	2	No.		
I	Dead bolt downtown model by Kwikset	2	No.		
J	Heavy duty stainless steel closer	2	No.		
	Painting and Clear Finishing				
	Knot, prime, stop and apply two coats of Alkyd base paint				
K	General surfaces, girth greater than 12"	10	SY		
L	Ditto, girth less then 12"	12	LY		
	Glazed Shop Fronts				
	Supply, fit and fix				
	Kawneer IR 500 Aluminium framing, size 2½" x 5" with 9/16" thich non thermal impact resistant glazing with integral framed glass door, complete with iromongery				
M	Size 8'10" x 8'11¼" with 3'0" x 6'8" clear opening for and including framed fully glazed door, with powder coated finish colour to be selected by the Architect	2	No.		
	To Collection			$	

2.7 External Doors and Windows (Cont'd)

Windows

Supply, fit and fix

Kawneer 1600 UT system window system with 9/16" glazing with glass vents as described, powder coated finish, color as selected by the Architect

A	Size 3'0" x 3'0" with opening vents as detailed	12	No.	
B	Size 6'0" x 3'0" do	6	No.	
C	Size 6'0" x 6'0" do	11	No.	
D	Size 9'0" x 6'0" do	4	No.	

Shutters

Supply, fit and fix as described in the Material Specifications

Aluminium roller shutters as manufactured by Kimbel Inc. or equal with rolling mechanism, locking device with powder coated finish to suit opening

E	Size 3'0" x 3'0"	12	No.	
F	Size 6'0" x 3'0"	6	No.	
G	Size 6'0" x 6'0"	11	No.	
H	Size 9'0" x 6'0"	4	No.	

Protection

I	Allow for the protection of all of the work contained in this section		Item	_____

To Collection $ _____

Collection

Amount of External Doors & Windows Page1 $
Amount of External Doors & Windows Page 2 $ _____

2.7 Total Amount of External Doors and Windows To Summary $ _____

Item	Description	Qty	Unit	Rate	Amount
2.8	**INTERNAL WALLS AND PARTITIONS**				
	Masonry				
	Hollow concrete blocks laid in cement and sand 1:4 mortar				
A	Walls, 8" thick	281	SY		
B	Walls, 6" thick	521	SY		
C	Walls, 4" thick	18	SY		
D	Bond 8" thick blockwalls to concrete with 2No. ¼" diameter high yield bars, 16" long cast into concrete and built into blockwork at 2'0" centres	34	LY		
C	Bond 6" thick blockwall do	49	LY		
D	Bond 4" thick blockwall do	7	LY		
	Insitu Concrete				
	Reinforced concrete 4000 psi at 28 days ¾" aggregate				
E	isolated beams	2	CY		
	Formwork for insitu concrete				
	Sawn formwork				
F	Beams, isolated	26	SY		
	Reinforcement for insitu concrete				
	Provisional				
G	High yield bars, straight and bent, various sizes	600	Lbs.		
	Partitions				
	Lightweight metal framing				
H	3⅝" "C" channel 20 gauge galvanised steel studs and noggins at 2'0" centres horizontally and vertically	123	SY		
	Plaster Board/Dry Linings				
	½" thick plaster board fixed to metal framing, including filling and taping joints				
I	Linings, width greater than 12"	246	SY		
J	Ditto, width less than 12"	83	LY		
	To Collection			$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.8 Internal Walls and Partitions (Cont'd)

Glazed Partitions

Supply, fit and fix Kawneer Aluminium frames and glass infill panel partitions as shown and detailed on Architect's drawings A06.1 and A06.2

A	Size, 9'8" x 8'11" complete with door and ironmongery, Type S002	1	No.		
B	Size 12'5" x 8'11" ditto, Type S003	1	No.		
C	Size 6'6" x 8'11" ditto, Type S102	1	No.		
D	Size 7'10" x 8'11" ditto, Type S103	1	No.		
E	Size 12'6" x 8'11" ditto, Type S104	1	No.		
F	Size 7'11" x 8'11" ditto, Type S201	1	No.		
G	Size 10'10" x 9'5" ditto, Type S202	1	No.		
H	Size 10'2" x 9'5" ditto, Type S203	1	No.		

Protection

I	Allow for the protection of all of the work contained in this section		Item		

To Collection $ _____

Collection

Amount of Internal Walls & Partitions Page 1 $
Amount of Internal Walls & Partitions Page 2 $ _____

2.8 Total Amount of Internal Walls and Partitions To Summary $ _____

Item	Description	Qty	Unit	Rate	Amount
2.9	**INTERNAL DOORS**				
A	1¾" x 1'6" x 6'8" solid core flush door with plastic laminate finish both sides	2	No.		
B	1¾" x 2'6" x 6'8" ditto	15	No.		
C	1¾" x 3'0" x 6'8" ditto	11	No.		
D	1¾" x 3'0" x 6'8" solid core flush door with wood veneer both sides	15	No.		
E	1¾" x 3'0" x 6'8" solid core Aluminium faced flush door with louvred panel, size 2'0" x 2'6" high and powder coated finish	3	No.		
F	2" x 4" dressed treated softwood frames	231	L.ft.		
G	2" x 10" dressed treated softwood frames	473	L.ft.		
H	2" x 6" Aluminium door frame as manufactured by Oran Limited or equal with powder coated finish to suit door size 3'0" x 6'8"	3	No.		
I	1" x 6" dressed softwood stop	473	L.ft.		
J	1" x 2" ditto	231	L.ft.		
K	1" x 3" dressed, moulded softwood architrave	1408	L.ft.		
	Ironmongery				
	Supply, fit and fix				
L	Pairs of 6" x 4" stainless steel butts as manufactured Waterson # K51M - 640	66	No.		
M	Lever lockset by Kwikset #438CNC15 satin nickel finish	19	No.		
N	Privacy lever latch set, Kwickset # 408CNC15 satin nickel finish	13	No.		
O	Dead bolt down town model by Kwikset	6	No.		
P	Heavy duty stainless steel closer	3	No.		
	Painting and Clear Finishing				
	Knot prime, stop and apply two coats of Alkyd base paint				
Q	General surfaces, girth greater than 12"	143	SY		
R	Ditto, girth less than 12"	77	LY		

2.9 Amount of Internal Doors To Summary $ _____

Item	Description	Qty	Unit	Rate	Amount
2.10	**WALL FINISHES**				
	Internal				
	Surface finishes				
	1/2" thick cement and sand 1:4 render				
A	Walls, width greater than 12"	1732	SY		
B	Curved walls, width greater than 12"	44	SY		
C	Walls, width less than 12"	606	LY		
	Ceramic tiles				
	24" x 48" x ¼" thick polished Porcelain tile Pianetto Martello Noce as supplied by Floor Décor laid with tile cement and grouted afterwards with tile grout				
D	Walls, width greater than 12"	98	SY		
E	Curved walls, width greater than 12"	23	SY		
F	Walls, width less than 12"	85	LY		
	8" x 12" x ¼" thick off white Ceramic tiles laid with tile cement and grouted afterwards with tile grout				
G	Walls, width greater than 12"	277	SY		
H	Walls, width less than 12"	38	LY		
	Painting and Clear Finishing				
	Prepare and apply one coat concrete primer and two coats satin acrylic latex paint				
I	General surfaces, girth greater than 12"	1435	SY		
	External				
	Surface finishes				
J	Walls, width greater than 12"	1124	SY		
K	Curved walls, width greater than 12"	149	SY		
L	Walls, width less than 12"	408	LY		
	1.5mm thick Marmonan or equal and approved trowel on finish				
M	Walls, width greater than 12"	1034	SY		
N	Walls, width less than 12"	240	LY		

To Collection $

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*
2.10	**Wall Finishes (Cont'd)**				
A	Projections in walls girth less than 12"	145	LY		
B	Ditto curved	62	LY		
	Ceramic Tiles				
	24" x 48" x ¼" thick Hainant Gray Matte Porcelain tiles laid with tile cement and grouted afterwards with tile grout				
C	Walls, width greater than 12"	309	SY		
D	Curved walls, width greater than 12"	169	SY		
E	Walls, width less than 12"	302	LY		
F	Curved walls, width less than 12"	62	LY		
	Protection				
G	Allow for the protection of all of the work contained in this section		Item		
	To Collection			$	

Collection

Amount of Wall Finishes Page 1	$	
Amount of Wall Finishes Page 2	$	

2.10 Total Amount of Wall Finishes To Summary $

Item	Description	Qty	Unit	Rate	Amount
2.11	**FLOOR FINISHES**				
	Ceramic Tiling				
	2'0" x 2'0" x ⅜" thick Porcelain floor tile Cross Light Beige laid in tile cement and grouted afterwards with an approved tile grout				
A	Floors, level	573	SY		
B	Skirting, height 6"	318	LY		
C	Ditto, curved	20	LY		
	24" x 48" x ⅜" thick polished Porcelain tile, Pianetto Cypress Beige laid with tile cement and grouted afterwards with tile grout				
D	Floors, level	363	SY		
E	Skirtings, height 6"	172	LY		
F	Ditto, but curved	20	LY		
	24" x 48" x ⅜" thick non-slip Porcelain tile, Basilea Bone Matte, laid in tile cement and grouted afterwards with tile grout				
G	Floors, level	30	SY		
H	Treads, width 12"	116	LY		
I	Risers, height 6"	137	LY		
J	Skirtings, height 6"	87	LY		
	Surface Finishes				
	Stained concrete finish				
K	Floors, width greater than 12"	42	SY		
	Protection				
L	Allow for the protection of all of the work contained in this section		Item		

2.11 Amount of Floor Finishes To Summary $ _____

Item	Description	Qty	Unit	Rate	Amount
2.12	**CEILING FINISHES**				
	Surface Finishes				
	½" thick cement and sand 1:4 render finished smooth				
A	Ceilings, width greater than 12"	159	SY		
B	Sloping soffits of stairs, width greater than 12"	52	SY		
C	2'0" x 2'0" x ⅜" thick acoustic tile Ceramic guard, off-white, lay in ceiling tile with tegular lay in grid all by Armstrong, suspended 2'6" below the structure	74	SY		
D	2'0" x 2'0" x ⅜" thick acoustic tile Ultima tegular celing tile with tegular lay in grid all by Armstrong, suspended 1'6" below the structure	774	SY		
	Painting and Clear Finishing				
	Prepare, apply one coat of concrete primer and two coats of satin acrylic latex paint				
E	General surfaces, girth greater than 12"	211	SY		
	External				
F	1'9" x 9" support constructed with 1" x 2" Aluminium members welded together as detailed on Architect's drawing A-16.1 bolted to concrete	240	No.		
G	¼" thick concrete board fixed to soffit of framing	910	S.ft.		
H	24" x 48" x ¼" thick Hainaut Grey Matte porcelain tile laid with tile cement to soffit of concrete board and pointed afterwards with tile grout	104	SY		
	Protection				
I	Allow for the protection of all of the work contained in this section		Item		_____

2.12 Amount of Ceiling Finishes To Summary $ _____

Item	Description	Qty	Unit	Rate	Amount
2.13	**FITTINGS AND FIXTURES**				
A	Construct kitchen base cupboard unit 12'0" long on plan x 3'0" high x 2'0" wide with 2" x 4" treated softwood bearers, 2" x 3" treated softwood framing, ½" thick PVC base, backing, side, divisions, doors and drawers, complete with hinges, door pulls, drawer pills and catches and spray painted with automotive paint	2	No.		
B	Ditto, 14'0" long do	1	No.		
C	Construct high level kitchen cupboard unit 8'0" long x 1'0" wide x 2'0" deep with 2" x 3" treated softwood framing, ½" thick PVC bottom, sides, divisions, doors and drawers, complete with ironmongery and spray painted with automotive paint	1	No.		
D	Ditto 6'9" long do	2	No.		
E	Construct framing for solid surface counter with 2" x 3" softwood framing 17'7" long on plan and 2'0" wide	2	No.		
F	Ditto 6'6" long do	1	No.		
G	Construct vanity unit, size 2'0" x 2'0" x 3'0" high with 2" x 4" treated softwood bearers, 2" x 3" treated softwood framing ½" thick PVC bottoms, sides, and doors complete with ironmongery and sprat painted with automotive paint	4	No.		
H	Ditto, size 3'0" x 2'0" wide x 3'0" high do	6	No.		
I	1" thick solid surface counter top Decoran or equal and approved fixed to plywood base	25	SY		
J	Extra for holes for sinks	13	No.		
	Balustrades				
	Supply, fit and fix:				
K	Viva cube rail glazed ramped balustrade with stainless steel posts and connections, including Red Oak handrails 4'0" high, ½" thick tempered glass	12	LY		
L	Viva cube nail stainless steel handrail support fixed to concrete	26	No.		
M	2" diameter Red Oak handrail	84	L.ft.		
	To Collection			$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.13 Fittings & Fixtures (Cont'd)

Supply, fit and fix:

A	Viva Cube Stainless Steel ramped balustrade 3'6" high with 7No. 1½" diameter horizontal bars and 2" diameter post at 4'0" centres	16	LY		
B	Stainless steel handrail brackets	60	No.		
C	1½" diameter Stainless Steel handrail	30	LY		
D	Ditto, ramped	16	LY		
	Bathroom Accessories				
E	Toilet roll holders as specified	10	No.		
F	18" x 24" mirrors do	10	No.		
G	Paper towel dispensers do	10	No.		
H	Soap dispensers do	10	No.		
I	Grab bars 36" long do	2	No.		
	Protection				
J	Allow for the protection of all of the work contained in this section	Item			

To Collection $ _____

Collection

Amount of Fittings & Fixtures Page 1 $
Amount of Fittings & Fixtures Page 2 $ _____

2.13 Total Amount of Fittings and Fixtures To Summary $ _____

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.14 PLUMBING INSTALLATION

This section of the works has not been measured in accordance with the Standard Method of Measurement 7th Edition. Tenderers are to price this section in accordance with the specifications and drawings.

A	Insert the amount from the priced schedule	Item			
B	Add for Main Contractor's special and general attendance	Item			

2.14 Total Plumbing Installation To Tender Summary $ _____

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.15 ELECTRICAL INSTALLATION

This section of the works has not been measured in accordance with the Standard Method of Measurement 7th Edition. Tenderers are to price this section in accordance with the specifications and drawings.

A	Insert the amount from the priced schedule	Item			
B	Add for Main Contractor's special and general attendance	Item			

2.15 Total Electrical Installation To Tender Summary $ _____

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.16 AIR CONDITIONING INSTALLATION

This section of the works has not been measured in accordance with the Standard Method of Measurement 7th Edition. Tenderers are to price this section in accordance with the specifications and drawings.

A	Insert the amount from the priced schedule	Item			
B	Add for Main Contractor's special and general attendance	Item			

2.16 Total Air Conditioning Installation To Tender Summary $ _____

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.17 FIRE ALARM INSTALLATION

This section of the works has not been measured in accordance with the Standard Method of Measurement 7th Edition. Tenderers are to price this section in accordance with the specifications and drawings.

A	Insert the amount from the priced schedule	Item			
B	Add for Main Contractor's special and general attendance	Item			

2.17 Total Fire Alarm Installation To Tender Summary $ _____

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*
2.18	**BUILDERS WORK IN CONNECTION WITH SERVICES**				
A	Allow for the marking of all holes and chases for the Plumbing, Electrical, Air Conditioning and Fire Alarm installation		Item		
	Allow for builder's work for the following:				
	Plumbing Installation				
B	WC's	10	No.		
C	Wash hand basins	10	No.		
D	Kitchen sinks	3	No.		
E	Cleaner's sinks	3	No.		
	Electrical Installation				
F	Light fixtures	279	No.		
G	Switch points	58	No.		
H	Power points	168	No.		
I	Smoke detectors	40	No.		
J	Pull stations	3	No.		
K	Fire alarm bells	3	No.		
L	Exit signs	6	No.		
M	Anunciators	1	No.		
N	Data outlets	74	No.		
O	Isolators	8	No.		
P	Electrical panels	13	No.		
Q	Automatic transfer switch	1	No.		
R	CCTV points	6	No.		
S	Access control points	84	No.		
T	Lightning protection points	6	No.		
	Air Conditioning Installation				
U	Air handling units	11	No.		
V	Condenser units	6	No.		
	To Collection			$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.18 BWIC (Cont'd)

A	Ceiling mounted cassettes	8	No.		
B	Wall mounted units	16	No.		
C	Air diffusers	74	No.		
D	Return air grille	10	No.		
E	Extract fans	13	No.		
F	Fresh air inlet	3	No.		
	Protection				
G	Allow for the protection of all of the work contained in this section	Item			
	To Collection			$	

Collection

Amount of BWIC Page No. 1	$	
Amount of BWIC Page No. 2	$	
2.18 Total Amount of Builder's Work To Summary	$	

Item	Description	Qty	Unit	Rate	Amount
2.19	**EXTERNAL WORKS AND DRAINAGE**				
	Excavating and filling				
A	Excavate to reduce levels commencing at existing ground level, depth not exceeding 3'0"	363	CY		
B	Excavate rock to reduce levels	18	CY		
	Disposal				
C	Surface water		Item		
D	Excavated material	363	CY		
E	Imported granular fill to make up levels	560	CY		
	Surface Treatments				
F	Compacting	1119	SY		
	Insitu Concrete				
G	Mass concrete 4000 psi at 28 days, ¾" aggregate				
H	Slipper drain	5	CY		
I	Kerb and slipper drain	24	CY		
J	Reinforced concrete 4000 psi at 28 days ¾" aggregate				
K	Beds, thickness 6"	20	CY		
L	Steps	1	CY		
	Formwork for insitu concrete				
M	Sawn formwork				
N	Sides of slipper	13	SY		
O	Edge of kerb and slipper 10" high	219	LY		
P	Ditto, 6" high	438	LY		
Q	Ditto but curved	75	LY		
R	Edge of bed, width 10-20"	71	LY		
S	Risers, 6" high	6	LY		
	Reinforcement for insitu concrete				
	Provisional				
T	High yield bar, straight and bent, various sizes	3402	Lbs.		
	To Collection			$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*
2.19	**External Works and Drainage (Cont'd)**				
A	BRC fabric A98 well lapped at joints	115	SY		
	Worked Finishes on Insitu Concrete				
B	Trowelling	92	SY		
C	Power floating	86	SY		
	Foul Drainage				
D	Excavating trenches in ordinary material commencing at reduced level for pipes less than 8" in diameter, average depth 2'0" including backfilling with selected excavated material	14	LY		
E	Ditto, average depth 3'0" do	38	LY		
F	Ditto average depth do 4'0"	14	LY		
	Construct manhole 2'0" x 2'0" internally, 6" thick reinforced concrete, 4000 psi at 28 days, 8" thick concrete blockwalls filled solidly with concrete 1:2:4 ½" aggregate, ½" thick cement and sand render with Xypex additive internally, concrete 1:2:4 benching, 8" x 8" concrete capping beam and 2'0" x 2'0" Brickhouse Broads light duty cast iron manhole cover #L5672				
G	2'0" deep	1	No.		
H	3'0" deep	1	No.		
I	4'0" deep	1	No.		
J	Construct septic tank with capacity of 2450 gallons as detailed on Architect's drawing S11	1	No.		
K	Construct soak pit, size 6'0" x 4'8" on plan as detailed on Architect's drawing S11	1	No.		

To Collection $ _____

Item	Description	Qty	Unit	Rate	Amount
2.19	**External Works and Drainage (Cont'd)**				
A	10" deep sand surround to PVC pipe work	66	LY		
	Surface water drainage				
B	Excavating trenches in ordinary material, commencing at reduced level for pipes, diameter 8" or less average depth 2'6" including backfilling with selected excavated material	80	LY		
C	Ditto 3'6" do	74	LY		
D	Ditto 4'6" do	24	LY		
	Construct collection box size 2'0" x 2'0" internally, 6" thick reinforced concrete base, 8" thick reinforced concrete walls as detailed on Structural Engineer's drawing S10.00				
E	Depth 2'6"	5	No.		
F	Depth 3'6"	5	No.		
G	Depth 4'6"	2	No.		
	Electrical Site Work				
H	Excavating trenches 3'0" deep, 2'0" wide in ordinary material commencing at reduced level, 1'0" deep sand surround to ducts, one layer of clay tiles and backfilled with selected excavated material	44	LY		
J	Construct manhole size 4'0" x 4'0" internally, 6" thick reinforced concrete (4000 psi at 28 days) base, 8" thick block walls filled solidly with concrete 1:2:4 and reinforced with high yield bars, 8" x 8" reinforced concrete capping beam and 4'4" x 4'4" x ¼" thick chequer plate steel cover	4	No.		
	Plumbing Installation Site Work				
K	Excavating trenches commencing at reduced level for pipes less than 8" in diameter, depth 10-20" backfilling with selected excavated material	61	LY		
	reinforced concrete capping beam and 4'4" x 4'4" x ¼" thick chequer plate steel cover	4	No.		
	Plumbing Installation Site Work				
L	Excavating trenches commencing at reduced level for pipes less than 8" in diameter, depth 10-20" backfilling with selected excavated material	61	LY		
	To Collection			$	

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

2.19 External Works and Drainage (Cont'd)

Paving

A	2" down material 8" thick laid to falls and well compacted	1076	SY		
B	Apply bitumen emulsified binder as specified	1076	SY		
C	40mm thick hot asphalt laid to falls	1076	SY		
D	Form fair joint to concrete	41	LY		

Protection

E	Allow for the protection of all of the work contained in this section		Item		

To Collection $ _____

Collection

Amount of External Works & Drainage Page 1	$	
Amount of External Works & Drainage Page 2	$	
Amount of External Works & Drainage Page 3	$	
Amount of External Works & Drainage Page 4	$	_____

2.19 Total Amount of External Works and Drainage To Summary $ _____

3.0 PROVISIONAL SUMS

		Amount EC$
A	Landscaping	30,000.00
B	Signage	20,000.00
C	Additional Builder's Work for Services	6,000.00
D	Light Pole Bases	6,400.00
E	Sky Light	9,000.00
F	Transformer Pad	7,000.00
G	Entrance Canopy	5,000.00
H	Intumescent Strips for Selected Doors	4,500.00
I	Access Control for Selected Doors	13,500.00
J	LED Ribbon Lights	5,000.00
K	Timber Floor Insert in Level 2	3,000.00
3.0	**Amount of Provisional Sums To General Summary**	$ **109,400.00**

Item	*Description*	*Qty*	*Unit*	*Rate*	*Amount*

4.0 CONTRACTORS ALL RISK INSURANCE

A	Tenderers are to price for providing Contractors All Risk Insurance for the duration of the contract works				

4.0 Contractor's All Risk Insurance To Tender Summary $ _____

THE FINANCIAL SERVICES COMMISSION BUILDING

5.0 GENERAL SUMMARY

			Amount EC$
1.0	**PRELIMINARIES**	$	
2.0	**MEASURED WORKS**		
2.1	SUBSTRUCTURE	$	
2.2	FRAME	$	
2.3	UPPER FLOORS	$	
2.4	ROOF	$	
2.5	STAIRS	$	
2.6	EXTERNAL WALLS	$	
2.7	EXTERNAL DOORS, WINDOWS AND GLAZING	$	
2.8	INTERNAL WALLS AND PARTITIONS	$	
2.9	INTERNAL DOORS	$	
2.10	WALL FINISHES	$	
2.11	FLOOR FINISHES	$	
2.12	CEILING FINISHES	$	
2.13	FITTINGS & FIXTURES	$	
2.14	PLUMBING INSTALLATION	$	
2.15	ELECTRICAL INSTALLATION	$	
2.16	AIR CONDITIONING INSTALLATION	$	
2.17	FIRE ALARM INSTALLATION	$	
2.18	BWIC WITH SERVICES	$	
2.19	EXTERNAL WORKS AND DRAINAGE	$	
3.0	**PROVISIONAL SUMS**	$	
4.0	**CONTRACTORS ALL RISK INSURANCE**	$	
	TOTAL AMOUNT CARRIED TO FORM OF TENDER	$	

Signed: _____

Contractor's Authorised Signatory Date: _____

Part B

6.0: Day Works

KJ Cassell Consultants Ltd
P.O. Box 313
Gerald's, Montserrat,

Office : 664-491-2819
Mobile : 664-492-1282
E-mail : kencassell@gmail.com

Part B

6.0: Day Works

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6.0 DAYWORKS

DAYWORKS

A Where work arising under a variation ordered by the Architect cannot properly be measured and valued, the Contractor shall be paid on a daywork basis. Such payments shall be the sum of the prime cost of such work calculated in accordance with the following 'Definitions of Prime Cost of Daywork' and in the percentage additions to each section of the prime cost of the rates set out hereunder by the Contractor.

DEFINITION OF PRIME COST OF DAYWORK

B This definition applies to daywork carried out under or incidental to this building contract but does not cover daywork ordered by the Architect to be carried out after the date of commencement of the Defects Liability Period, which may be the subject of a separate agreement.

1.0 LABOUR

1.1 The standard wage rates, emoluments and expenses referred to below and the standard working hours referred to in 1.2 are those laid down for the time being in the rules or decisions of agreements of the Labour Union and the Contractor, applicable to the works (or those of such other body as may be appropriate) and to the grade of operative concerned at the time when and the area where the daywork is executed.

1.2 Hourly base rates for labour are computed by dividing the annual prime cost of labour based upon the standard working hours and as defined in 1.4 by the number of standard working hours per annum.

1.3 The hourly rates computed in accordance with 1.2 shall be applied in respect of the time spent by operatives directly engaged on daywork, including those operating mechanical plant and transport and erecting and dismantling other plant (unless otherwise expressly provided in the contract) and handling and distributing the materials and goods used in the daywork.

1.4 The annual prime cost of labour comprises the following:

(a) Standard weekly earnings (ie. the standard working week as determined at the appropriate rate for the operative concerned).
(b) Any supplemental payments.
(c) Any guaranteed minimum payments (unless included in Section 3.1 (a) - (p)).
(d) Merit money.
(e) Differentials or extra payments in respect of skill, responsibility, discomfort, inconvenience or rish (excluding those in respect of supervisory responsibility - see 1.5).
(f) Payments in respect of public holidays.
(g) Any amounts which may become payable by the contractor to or in respect of operatives arising from the rules etc., referred to in 1.1 which are not provided for in 1.4 (a) - (f) nor in Section 3.1 (a) - (p).
(h) Employer's contributions to the Annual Holiday with Pay and Welfare Benefits Scheme or payments in lieu thereof.
(i) Employer's National Insurance contributions as applicable to 1.4 (h).
(j) Any contribution, levy or tax imposed by Statute, payable by the contractor in his capacity as an employer.

6.0 DAYWORKS (Cont'd)

1.5 Differentials or extra payments in respect of supervisory responsibility are excluded from the annual prime cost. The time of principals, staff, foremen, charge hands and the like when working manually is admissible under this Section at the rates for the appropriate grades.

2.0 MATERIALS

2.1 The prime cost of materials and goods obtained specifically for the daywork is the invoice cost after deducting all trade discounts and any portion of cash discounts in excess of 5 per cent.

2.2 The prime cost of all other materials and goods used in the daywork is based upon the current market prices plus any appropriate handling charges.

2.3 The prime cost referred to in 2.1 and 2.2 includes the cost of delivery to site.

3.0 PLANT

3.1 Unless otherwise stated in the contract, the prime cost of plant comprises the cost of the following:

(a) use or hire of mechanically operated plant and transport for the time employed on and/or provided or retained for the daywork;

(b) use of non-mechanical plant (excluding non-mechanical hand tools) for the time employed on and/or provided or retained for the daywork:

(c) transport to and from site and erection and dismantling where applicable.

3.2 The use of non-mechanical hand tools and of erected scaffolding, staging, trestles or the like is excluded (see Section 6), unless specifically retained for the daywork.

6.0 DAYWORKS (Cont'd)

Daywork Schedule

A For works to be executed on a daywork basis and instructions, the Contractor shall insert a rate against the items mentioned below on which the tender is based on.

B Rates for plant under "A" below shall include fuel, oil and all consumable items plus wages of operator.

C Payment shall be made for "working time" and "movement time" only. "Standing time" shall not be paid for. Breakdowns in "working time" periods shall not be paid for.

Table A: Plant /Equipment

Description / Type	***Rate Per Hour***
BackHoe Loader	
Skid-Steer loader	
Front-end Loader	
Bulldozer (D6 or equal)	
Bulldozer (D8 or equal)	
Road Grader	
Tractor Roller Compactor	
4 tonne truck	
6 tonne truck	
Large Concrete Mixer with Hopper-Approx. 0.5CY	
Concrete Mortar Mixer	
Excavator-20 tonne	
Telehandler	
Mobile Crane	
Jack Hammer	
Concrete Vibrator	

Labour Rates

I (We) hereby certify that to the best of my (our) knowledge and belief the wages, and conditions of labour of all work people proposed to be employed by me (us) on this project for which I (we) am (are) offering myself (ourselves) as a Contractor are fair and reasonable having regard to the statutory provisions regulating rates of wages as are in force in Montserrat on the date of this my (our) Tender and I (we) will accept responsibility for the observance of these regulations by sub-contractors employed by me (us) in the execution of the works.

Table B: Labour

Class of Worker / Trade	***Rate Per Hour***
Mason	
Carpenter	
Joiner	
Steel Bender	
Labourer	
Semi-Skilled Labourer	
Painter	
Plumber	
Foreman	

Dated this: _____day of_____2020

Signature: _____

in the capacity of : _____

duly authorised to sign tenders for and on the behalf of:

_____
(Name In Block Capitals)

Address:_____

Part B

7.0: MEP Schedules of Works

KJ Cassell Consultants Ltd
P.O. Box 313
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Office : 664-491-2819
Mobile : 664-492-1282
E-mail : kencassell@gmail.com

FINANCIAL SERVICES COMMISSION BUILDING

7.1 : ELECTRICAL INSTALLATION SCHEDULE OF WORKS

Item	Description	Qty	Unit	Rate	Amount (EC$)
	Provide all materials, labour and supervision necessary to complete the Works				
	in all respects, all as specified, shown on the Drawings or as indicated otherwise.				
	NOTE: All individual sub-sections of each item are to be priced, indicating cost totals for material + labour. All prices are to quoted in Eastern Caribbean Dollars				
E1	a) **415V 400A 3-Pole 22 kAIC** Main Utility Transformer L.V. Isolator	**2**	**Item**		
	b) Automatic Transfer Switch - **ASCO 300 (or equal aproved) 415V 400A 3-pole 22 kAIC**		**Item**		
	c) 4C **x 240mm^2 X.L.P.E. Generator Cables** - to Contractor's Estimate				
	1. Main Isolator #1 to ATS		**m**		
	2. ATS to generator		**m**		
	e) ATS to Main Panel 'M'				
	f) **Main L.V. Distribution Panel 'M' - 415/240V 3-Phase 4-Wire 30-Way 400A B/B 22 kAIC** c/w Digital Power Meter, CT.s, Ground Fault and 250 kA TVSS and all branch circuit breakers		**Item**		
	g) Cable Trays, ducts, supports etc.		**Item**		
	SUB-TOTAL - Item E1				
E2	**Air Conditioning Distribution Panel 'AC' (Weatherproof)**				
	a) 415/240-Volts 3-phase 4-wire 18-way 150A B/B 22 kAIC		**Item**		
	b) **4C x 50mm^2** - to contractor's estimate		**m**		
	SUB-TOTAL - Item E2				
E3	**Computer Distribution Panel 'CS'**				
	a) 208/120-Volts 3-phase 5-wire 18-way 150A B/B 14 kAIC		**Item**		
	b) **3 x 50mm^2 (Phase Conductors)** - to contractor's estimate		**m**		
	c) **1 x 95mm^2 (Neutral Conductors)** - to contractor's estimate		**m**		
	d) **1 x 35mm^2 (Ground Conductor)** - to contractor's estimate		**m**		
	SUB-TOTAL - Item E3				
E4	**Power Distribution Panel 'PS'**				
	a) 208/120-Volts 3-phase 4-wire 18-way 150A B/B 14 kAIC		**Item**		
	b) **4 x 25mm^2** - to contractor's estimate		**m**		
	SUB-TOTAL - Item E4				
E5	**Transformers 'T1'**				
E5-1	a) **'T1' - 30 kVA** 3-Phase Dry Type Transformer				
	400-Volts Primary (Delta) / 208/120-Volts Secondary (Wye)	**1**	**No.**		
	b) Primary Cable - **3C x 16mm^2** - to contractor's estimate		**m**		
E5-2	a) **'T2' - 45 kVA** 3-Phase Dry Type K-13 Isolation Transformer				
	400-Volts Primary (Delta) / 230/115-Volts Secondary (Wye)	**1**	**No.**		
	b) Primary Cable - **3C x 25mm^2** - to contractor's estimate		**m**		
	SUB-TOTAL - Item E5				
	To Collection $				

Item	Description	Qty	Unit	Rate	Amount (EC$)
E6	**Pre-Commissioning Testing**				
	a) Transformers 'T1 - T2'		**Item**		
E7	**Grounding System**				
	a) Standby Generator		**Item**		
	b) Main L.V. Panelboard and sub-distribution panels		**Item**		
	d) Cable trays, supports, structured cabling bulkheads etc.		**Item**		
	e) UPS units		**Item**		
	f) Communications (Voice/Data) Systems		**Item**		
	G) Building roof & structure		**Item**		
	SUB-TOTAL - Item E7				
E8	**PANELS & SUB-FEEDERS**				
	This item is to include for all contactors and associated feeder cables, all as specified on the Drawings or in the Electrical Specification. This item is also to include for all glands, clamps, supports, circuit breakers as per schedule.				
E8-1	a) **Panel 'LP1'** - 400/230V 3Ph 4W 42-way 150A B/B 10 kAIC		**Item**		
	b) 4C x 16 mm^2 X.L.P.E. - to Contractor's estimate		**m**		
E8-1	a) **Panel 'LP2'** - 400/230V 3Ph 4W 42-way 150A B/B 10 kAIC		**Item**		
	b) 4C x 16 mm^2 X.L.P.E. - to Contractor's estimate		**m**		
E8-3	a) **Panel 'LP3'** - 400/230V 3Ph 4W 42-way 150A B/B 10 kAIC		**Item**		
	b) 4C x 16 mm^2 X.L.P.E. - to Contractor's estimate		**m**		
E8-4	**PANEL 'NL' - Night Lighting Panel**				
	400/230-volts 3-phase 4-wire 30-way 150A B/B 10 kAIC c/w 415V 30A-3P lighting contactor, timer and local switch bank at panel		**Item**		
	a) 4C x 4.0mm2 XLPE armoured - to Contractor's estimate		**m**		
E8-5	a) **Panel 'P1'** - 208/120V 3Ph 4W 18-way 125A B/B 10 kAIC		**Item**		
	b) 4C x 6.0 mm^2 X.L.P.E. - to Contractor's estimate		**m**		
E8-6	a) **Panel 'P2'** - 208/120V 3Ph 4W 18-way 125A B/B 10 kAIC		**Item**		
	b) 4C x 6.0 mm^2 X.L.P.E. - to Contractor's estimate		**m**		
E8-7	a) **Panel 'P3'** - 208/120V 3Ph 4W 18-way 125A B/B 10 kAIC		**Item**		
	b) 4C x 6.0 mm^2 X.L.P.E. - to Contractor's estimate		**m**		
E8-8	a) **Panel 'C1'** - 208/120V 3Ph 5W 18-way 125A B/B 10 kAIC		**Item**		
	b) 3 x 50mm^2 (Phase Conductors) - to contractor's estimate	**3**	**m**		
	c) 1 x 95mm^2 (Neutral Conductors) - to contractor's estimate		**m**		
	d) 1 x 35mm^2 (Ground Conductor) - to contractor's estimate		**m**		
E8-9	a) **Panel 'C2'** - 208/120V 3Ph 5W 18-way 125A B/B 10 kAIC		**Item**		
	b) 3 x 10mm^2 (Phase Conductors) - to contractor's estimate	**4**	**m**		
	c) 1 x 16mm^2 (Neutral Conductors) - to contractor's estimate		**m**		
	d) 1 x 6.0mm^2 (Ground Conductor) - to contractor's estimate		**m**		
E8-10	a) **Panel 'C3'** - 208/120V 3Ph 5W 18-way 125A B/B 10 kAIC		**Item**		
	b) 3 x 10mm^2 (Phase Conductors) - to contractor's estimate	**6**	**m**		
	c) 1 x 16mm^2 (Neutral Conductors) - to contractor's estimate		**m**		
	d) 1 x 6.0mm^2 (Ground Conductor) - to contractor's estimate		**m**		
	SUB-TOTAL - Item E8				
	To Collection $				

Item	Description	Qty	Unit	Rate	Amount (EC$)
E9	**AIR CONDITIONING & VENTILATION & EQUIPMENT**				
	Weatherproof Serviceman Isolators & Cables				
E9-1	Level 1 AC Condensing Unit -**415V 50A-3P / 4C x 10mm^2 XLPE (To Contractor's Estimate)**	**1**	**No.**		
E9-2	Level 2 AC Condensing Unit -**415V 60A-3P / 4C x 16mm^2 XLPE (To Contractor's Estimate)**	**1**	**No.**		
E9-3	Level 3 AC Condensing Unit -**415V 60A-3P / 4C x 16mm^2 XLPE (To Contractor's Estimate)**	**1**	**No.**		
E9-4	Outside Air Unit - **415V 40A-3P / 4C x 6.0mm^2 XLPE (To Contractor's Estimate)**	**1**	**No.**		
E9-5	Fan Coil Units - **3C x 1.5mm^2 XLPE (To Contractor's Estimate)**	**35**	**No.**		
E9-6	Toilet Exhaust Fans - Weatherproof Isolator - **15A-2P / 3Cx1.5mm2 XLPE (To Contractor's Estimate)**	**13**	**No.**		
E9-7	Water Heaters (Kitchen) - Weatherproof Isolator - **15A-1P / 3Cx1.5mm2 XLPE (To Contractor's Estimate)**	**3**	**No.**		
	SUB-TOTAL - Item E9				
E10	**Lighting Fixtures**				
	a) Car Park - LED fixture c/w 25'-0" steel pole	**8**	**No.**		
	b) Security Wallpack LED fixtures	**10**	**No.**		
	c) 2'-0" square recessed LED troffer fixture	**210**	**No.**		
	d) 2'-0" vapourproof LED surface mount	**9**	**No.**		
	e) 4'-0" vapourproof LED surface mount	**4**	**No.**		
	f) Downlighters	**21**	**No.**		
	g) Pendants	**25**	**No.**		
	h) Emergency Exit / Emergency Lighting Combination	**8**	**No.**		
	i) Emergency Lighting	**6**	**No.**		
	SUB-TOTAL - Item E10				
E11	**Power Outlets**				
	a) 115-volt 15A duplex	**17**	**No.**		
	b) 115-volt 15A duplex ground fault -	**38**	**No.**		
	c) 115-volt 15A duplex isolated ground -	**72**	**No.**		
	d) Combination 115-volt 15A duplex / 115-volt 15A isolated ground / communications floor outlet	**8**	**No.**		
	e) 230-volt switched 13A duplex RCD	**17**	**No.**		
	f) Cooktop Control switched outlet - 230V 45A	**3**	**No.**		
	g) Hand Dryer outlet points	**10**	**No.**		
	SUB-TOTAL: Item E11				
E12	**Conduit Infrastructure**				
	a) Fire Detection / Alarm System		**Item**		
	b) Voice / Data (Communications) Outlets		**Item**		
	c) Communications Steel Trunking / Basket Trays		**Item**		
	d) Security System Steel Trunking / Basket Trays		**Item**		
	SUB-TOTAL: Item E12				
	To Collection $				

Item	Description	Qty	Unit	Rate	Amount (EC$)
E13	**Industrial Cable Tray / Trunking & Supports**		**Item**		
E14	**Lighting / Control Switches**				
	a) 230-volt 20A single-pole toggle -	**62**	**No.**		
	b) 230-volt 20A two-way toggle	**6**	**No.**		
	SUB-TOTAL: Item E14				
E15	**Hand Dryers**	**10**	**No.**		
	Bobrick Eclipse® Dryer Model B-715E 230-Volts 1700 Watts c/w chrome cover				
E16	**Conduits**				
	This item is to include for all junction boxes, connectors, elbows,				
	terminations, clamps etc. - to Contractor's estimate				
	a) 1/2 dia.		**m**		
	b) 3/4" dia.		**m**		
	c) 1" dia.		**m**		
	d) Miscellaneous		**Item**		
	SUB-TOTAL: Item E16				
E17	**Sub-Circuit Wiring**				
	P.V.C. insulated single-core copper conductors - to Contractor's estimate				
	a) 1.5mm2		**m**		
	b) 2.5mm2		**m**		
	c) 4.0mm2		**m**		
	c) 6.0mm2		**m**		
	c) 10.0mm2		**m**		
	SUB-TOTAL: Item E17				
E18	**MAIN L.V. CABLE DUCTS / CONNECTION**				
	From Utility meter pillar - this item is to include for all long radius bends, fittings etc.				
E18.1	Duct connection at MUL meter Pillar roadside	**1**	**item**		
E18.2	4" dia. Schedule 40 PVC L.V. ducts - to Contractor's estimate	**120**	**m**		
E18.3	Laying of ducts in sand beds	**1**	**Item**		
	SUB-TOTAL: Item E18				
	To Collection $				
	Collection				
		Subtotal from		***Pg 1***	
		Subtotal from		***Pg 2***	
		Subtotal from		***Pg3***	
		Subtotal from		***Pg4***	
	TOTAL TO MAIN BILL OF QUANTITIES				

Part B-Work Requirements

8.0: Optional Works

8.1: Separate Electrical Metering-Schedule of Works
8.2: Sub Metering-Modified Panel 'M'
8.3: Separate Electrical Metering-Schematic Diagram

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Financial Services Commission Bldg-Little Bay

8.0: OPTIONAL WORKS (For quotations only)

NB: These optional works are for quotation of cost only and shall not to be included in the contract price stated on the Form of Tender.These options may be later applied to the contract works in a variation order.

A	Supply and install platform wheel chair lift by Bruno with load capacity of 750 Lbs. as per Particular/Material Specification	Item			
B	Supply, fit and fix Casino architectural cable railing systems by Trex Commercial Products as per the particular/material specifications	12	LY		
C	100Kw/125KVA standby generator and automatic transfer switch. Simmilar to the Genertor described in the Materials Specifications	1	No.		
D	Supply & Instll 4C x 95 cable connections for 100 Kw standby generator	Item			
E	Panel described in the section 8.2 Panel Schedule labeld 'M' Modified, to accommodate the above 100kw stand by generator and the digital smart meter described below	Item			
F	Multi-Point multifunctioning power & energy metering system to all circuits in modified Panel' M' (See section 8.2). Unit to be supplied along with supporting Energy Reporter EXT software, all as described in the Material Specifications	Item			
G	**Provide for separate floor by floor electric metering:** Insert the net total from the section 8.1 Optional Works-Separate Electrical	Item			

Signed: _____ *Date:* _____

Tenderer's Authorized Signatory

Financial Services Commission Bldg-Little Bay

8.1: Optional Works-Separate Electrical Metering

NB: These optional works are for quotation of cost only and shall not to be included in the contract price stated on the form of Tender.These changes may be later applied to the contract works in a variation order. This schedule includes items of work which the Bidder priced in the Measured Works that shall be substracted from the Contract works if a variation order for Separate Metering is issued by the Architect. This Schedule of works is based on the optional elctrical meter network described in the attached schematic diagram in Part B Section ***8.3.***

Item	*Description*	*Qty*	*Unit*	*Rate*	*Total*
	WORKS TO BE SUBSTRACTED				
E1	a) **415V 400A 3-Pole 22 kAIC** Main Utility L.V. Isolator	**-1**	**Item**		
	b) Automatic Transfer Switch - **ASCO 300 (or equal aproved) 415V 400A 3-pole 22 kAIC**	-1	**Item**		
	c) 4C **x 240mm^2 X.L.P.E. Generator Cables**- to Contractor's Estimate				
	1. Utiliy Main to main Isolator and to ATS	-50	**m**		
	2. Generator to Generator Main Isolator and ATS		**m**		
	3. ATS to Main Panel 'M'	-2			
	e) **Main L.V. Distribution Panel 'M'** - **415/240V 3-Phase 4-Wire 30-Way 400A B/B** **22 kAIC** c/w Digital Power Meter, CT.s, Ground Fault and 250 kA TVSS and all branch circuit breakers	-1	**Item**		
	f) Cable Trays, ducts, supports etc.		**Item**		
E2	**Air Conditioning Distribution Panel 'AC' (Weatherproof)**				
	a) 415/240-Volts 3-phase 4-wire 18-way 150A B/B 22 kAIC	-1	**Item**		
	b) **4C x 50mm^2** - to contractor's estimate	-20	**m**		
E3	**Computer Distribution Panel 'CS'**				
	a) 208/120-Volts 3-phase 5-wire 18-way 150A B/B 14 kAIC	-1	**Item**		
	b) **3 x 50mm^2 (Phase Conductors)** - to contractor's estimate	-3	**m**		
	c) **1 x 95mm^2 (Neutral Conductors)** - to contractor's estimate	-3	**m**		
	d) **1 x 35mm^2 (Ground Conductor)** - to contractor's estimate	-3	**m**		
E4	**Power Distribution Panel 'PS'**				
	a) 208/120-Volts 3-phase 4-wire 18-way 150A B/B 14 kAIC	-1	**Item**		
	b) **4 x 25mm^2** - to contractor's estimate	-3	**m**		
E5	**Transformers 'T1'**				
E5-1	a) **'T1'** - **30 kVA** 3-Phase Dry Type Transformer	**-1**			
	400-Volts Primary (Delta) / 208/120-Volts Secondary (Wye)		**No.**		
	b) Primary Cable - **3C x 16mm^2** - to contractor's estimate	-3	**m**		
E5-2	a) **'T2'** - **45 kVA** 3-Phase Dry Type K-13 Isolation Transformer	**-1**			
	400-Volts Primary (Delta) / 230/115-Volts Secondary (Wye)		**No.**		
	b) Primary Cable - **3C x 25mm^2** - to contractor's estimate	-3	**m**		
	TOTAL AMOUNT OF SUBTRACTIONS				

Item	Description	Qty	Unit	Rate	Total
	ADDITIONS				
	3 Module 3 Phase Meter Stack	**1**	ea		
	Additions for Level 1:				
	Mains Isolator - Level 1 , 150A, 3 Pole, 400/230V	**1**	**ea**		
	Automatic Transfer Switch - ASCO 300 (or equal aproved) 415V 150A 3-pole 22 kAIC (Level 1)	**1**			
	Distribution Panel M1				
	a) 400/230-Volts 3-phase 4-wire 18-way 250A B/B 14 kAIC	**1**	**ea**		
	b) **70mm^2 4 core** - to contractor's estimate	**50**	**m**		
	c) 250KA TVSS	**1**	**ea**		
	d) 16mm2 4 core cable to condensing Unit Level 1	**20**	m		
	Transformer 'T11' (To Supply DP P1)				
	a) **'T1'** - 1**0 kVA** 3-Phase Dry Type Transformer	**1**	**ea**		
	400-Volts Primary (Delta) / 208/120-Volts Secondary (Wye)				
	b) **4 x 10mm^2** - to contractor's estimate	**3**	**m**		
	a) **'T12'** - 10 **kVA** 3-Phase Dry Type K-13 Isolation Transformer	**1**	**ea**		
	400-Volts Primary (Delta) / 230/115-Volts Secondary (Wye)				
	b) **3 x 10mm^2 (Phase Conductors)** - to contractor's estimate	**4**	**m**		
	c) **1 x 16mm^2 (Neutral Conductors)** - to contractor's estimate	**4**	**m**		
	d) **1 x 16mm^2 (Ground Conductor)** - to contractor's estimate	**4**	**m**		
	Additions for Level 2:				
	Mains Isolator - Level 2 , 150A, 3 Pole, 400/230V	**1**	**ea**		
	Automatic Transfer Switch - ASCO 300 (or equal aproved) 415V 150A 3-pole 22 kAIC (Level 2)	**1**	**ea**		
	Distribution Panel M2				
	a) 400/230-Volts 3-phase 4-wire 30-way 250A B/B 14 kAIC	**1**	**ea**		
	b) 95mm2 4 core cable	**50**	**m**		
	c) 250KA TVSS	**1**	**ea**		
	d) 25mm2 4 core cable to condensing Unit Level 2	**25**	**m**		
	e) 16mm2 4 core cable to DOAS condensing Unit	**25**	**m**		
	Transformer 'T21' (To Supply DP P2)				
	a) **'T21'** - 1**0 kVA** 3-Phase Dry Type Transformer	**1**	**ea**		
	400-Volts Primary (Delta) / 208/120-Volts Secondary (Wye)				
	b) **4 x 10mm^2** - to contractor's estimate	**3**	**m**		
	Transformer 'T22 (To Supply DP C2)				
	a) **'T22'** - 15 **kVA** 3-Phase Dry Type K-13 Isolation Transformer	**1**	**ea**		
	400-Volts Primary (Delta) / 230/115-Volts Secondary (Wye)				
	b) **3 x 10mm^2 (Phase Conductors)** - to contractor's estimate	**4**	**m**		
	c) **1 x 16mm^2 (Neutral Conductors)** - to contractor's estimate	**4**	**m**		
	d) **1 x 16mm^2 (Ground Conductor)** - to contractor's estimate	**4**	**m**		
	SUB-TOTAL-ADDITIONAL WORKS				

Item	Description	Qty	Unit	Rate	Total
	Additions for Level 3:				
	Mains Isolator - Level 2 , 150A, 3 Pole, 400/230V	**1**	**ea**		
	Automatic Transfer Switch - ASCO 300 (or equal aproved) 415V 150A 3-	**1**	**ea**		
	Distribution Panel M3				
	a) 400/230-Volts 3-phase 4-wire 18-way 250A B/B 14 kAIC	**1**	**ea**		
	b) 95mm2 4 core cable	**50**	**m**		
	c) 250KA TVSS	**1**	**ea**		
	d) 25mm2 4 core cable to condensing Unit Level 3	**25**	**m**		$6.00
	Transformer 'T31' (To Supply DP P3)				
	a) **'T31'** - 1**0 kVA** 3-Phase Dry Type Transformer	**1**	**ea**		
	400-Volts Primary (Delta) / 208/120-Volts Secondary (Wye)				
	b) **4 x 10mm^2** - to contractor's estimate	**4**	**m**		
	Transformer 'T32 (To Supply DP C3)				
	a) **'T32'** - 15 **kVA** 3-Phase Dry Type K-13 Isolation Transformer	**1**	**ea**		
	400-Volts Primary (Delta) / 230/115-Volts Secondary (Wye)				
	b) **3 x 10mm^2 (Phase Conductors)** - to contractor's estimate	**4**	**m**		
	c) **1 x 16mm^2 (Neutral Conductors)** - to contractor's estimate	**4**	**m**		
	d) **1 x 16mm^2 (Ground Conductor)** - to contractor's estimate	**4**	**m**		
	Generator Distribution Panel G1 - 415/240V 3-Phase 4-Wire 12-Way 400A B/B	**1**	**ea**		
	SUB-TOTAL-ADDITIONAL WORKS				
	TOTAL-ADDITIONAL WORKS				
	SUMMARY OF ADDITIONS & SUBTRACTIONS				
	TOTAL AMOUNT OF SUBTRACTIONS				
	TOTAL COST OF ADDITIONAL WORKS				
	8.1 NET AMOUNT CARRIED TO 8.0 OPTIONAL WORKS				

8.2 Optional Works-Sub Metering-Modified Panel 'M'

FSC BUILDING - MONTSERRAT							
Panel 'M' - Main Distribution Panel Modified							
Circuit	**Description**	**Voltage**	**Phase 1**	**Phase 2**	**Phase 3**	**CB**	**Cable**
1,3,5	Panel 'AC'	400	90.7	90.7	90.7	150A-3P	4C x 50
2,4,6	Panel 'FC' - Fan Coil Units	400	10.8	11.3	8.3	40A-3P	4C x 6.0
	Panel 'ES' - Emergency Services						
2,4,6	Panel 'LP1'	400	26.1	15.4	15.3	70A-3P	4C x 16
7,9,11	Panel 'LP2	400	15.7	32.1	16.1	70A-3P	4C x 16
8,10,12	Panel 'LP3'	400	17.4	24.0	34.4	70A-3P	4C x 16
13,15,17	Panel 'PS'	400	14.0	14.6	14.0	100A-3P	4C x 25
14,16,18	Panel 'CS'	400	29.0	28.2	27.7	150A-3P	4C x 50
19,21,23	Panel 'NL'	400	10.0	10.0	10.0	30A-3P	4C x 4.0
	TOTAL	**400**	**134.3**	**146.3**	**139.5**		
	STANDBY GENERATOR						
	PARTIAL STANDBY POWER					**225A-3P**	**4C x 95**
	100 kW / 125 kVA					**400/230V**	**3Ph 4W**
	400/230V 3-Phase 4-Wire					**30-Way**	**225A B/B**
	TOTAL	**400**	**225.0**	**237.1**	**230.2**	**308**	

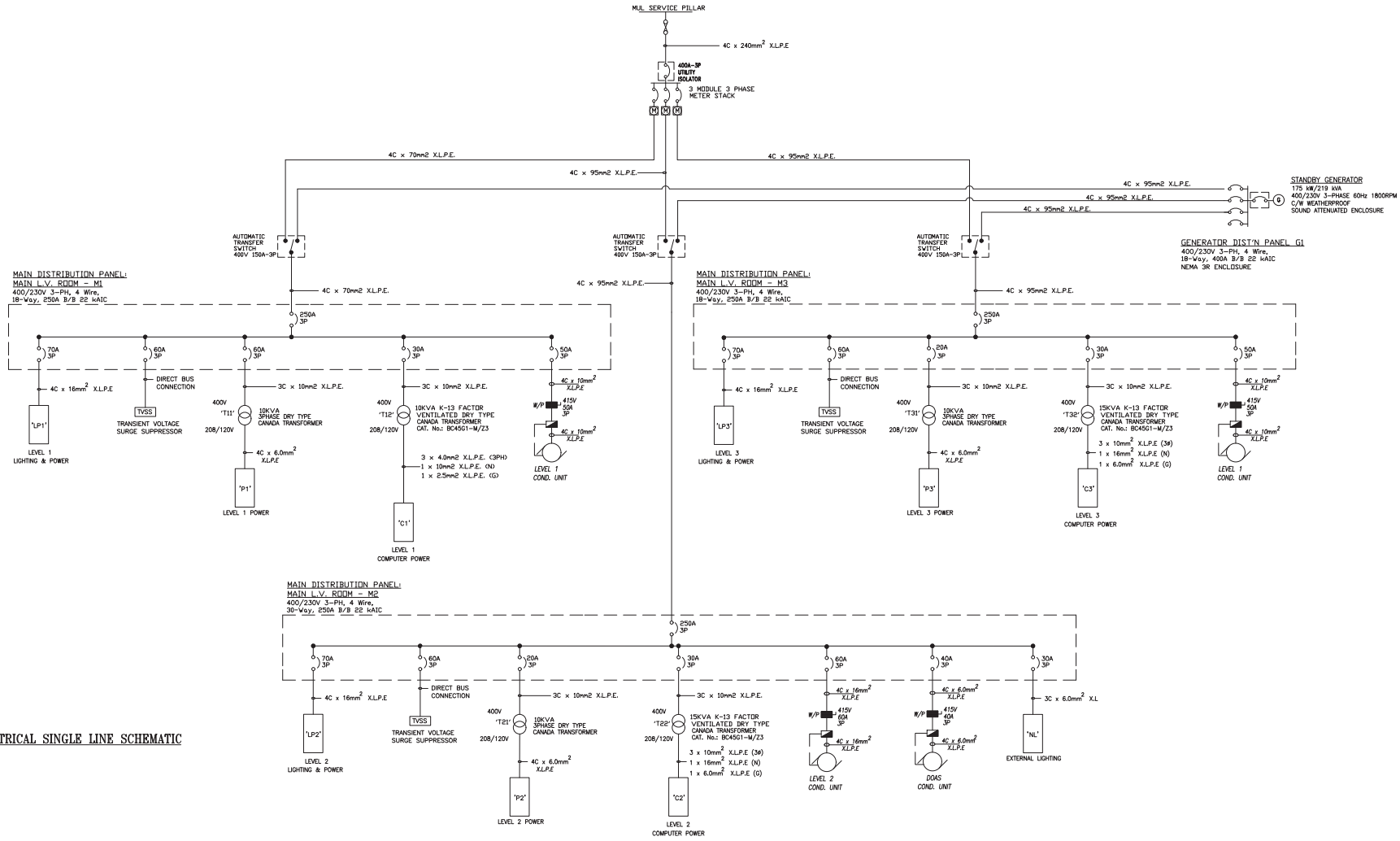
Panel 'M' Specifications

Voltage:	400/230V	**Wires:**	5
Ways	12	**Phase:**	3
Bus bar	400A		
Main C/B	**400A-3P**		
Main Cabl	**4C x 240**		

Note: Smart Metering is to be applied to all circuits in this Panel

FINANCIAL SERVICES COMMISSION BLDG-LITTLE BAY

PART B-8.3 OPTIONAL WORKS-SEPARTE ELECTICAL METERING-SCHEMATIC DIAGRAM



MAIN ELECTRICAL SINGLE LINE SCHEMATIC

SCALE: N.T.S.

SCHEMATIC DIAGRAM OF PROPOSED 3 THREE MUL METER FLOOR BY FLOOR DISTRIBUTION SYSTEM

Note: The following Sections of this Tender Package are Bound Separately

Part B

9.0: Specifications
10.0: Drawings