

Generator Room

		Quantity	Unit	Rate	Tender price
	DEMOLITION				
A	Isolate existing underground service connections		Item		
B	Ensure protection for the demolition of generator and garage floor slab	488	sf		
C	Remove all demolished material from site and dispose at new winward		Item		
D	Prepare existing area to receive new foundations		Item		
Demolition carried to Summary					

SUBSTRUCTURE				
<u>D GROUNDWORK</u>				
<u>D20 Excavation and filling</u>				
A	Excavating trenches width not exceeding 2'-0"	45	cy	
B	Earthwork Support	126	sy	
C	Extra over excavations irrespective of depth for breaking out rock (Provisional)	5	cy	
D	Dispose excavated material to off site	32	cy	
E	Retain selected excavated material on site in spoil heaps	13	cy	
F	Keep excavations free from water (Provisional)	1	item	
G	Damp proof membrane under slab	61	sy	
H	Apply termite treatment to surfaces of excavations and fill	160	sy	
J	Compacting; fill material under slab	61	sy	
<u>E In situ Concrete</u>				
<u>E05 Reinforced Concrete</u>				
K	Foundations	9	cy	
L	2" Blinding	293	sf	
M	Column 8" x 1'-4"	1	cy	
N	Column 8" x 8"	1	cy	
<u>E20 Formwork</u>				
P	To sides of foundations	26	sy	
Q	To sides of 8" x 16" columns	1	sy	
R	To sides of 8" x 8" columns	7	sy	
To Collection				

SUBSTRUCTURE (continued)				
<u>E30 Reinforcement</u>				
A	1/2" Diameter bars in foundations	273	lb	
B	1/2" Diameter links in foundations	194	lb	
C	1/2" Diameter bars in blockwall	356	lb	
D	1/2" Diameter bars in 8" x 8" columns	57	lb	
E	1/2" Diameter bars in 8" x 16" columns	5	lb	
F	1/2" High tensile bars epoxied into existing floor slab	3	lb	
G	3/8" Diameter bars in 8" x 8" columns	30	lb	
H	3/8" Diameter bars in 8" x 16" columns	4	lb	
J	Ladder mesh to blockwall	87	ly	
<u>F MASONRY</u>				
<u>F10 Blockwork</u>				
K	8" Thick reinforced blockwork	39	sy	
L	Fill all cavities of 8" blocks with lean mix concrete	39	sy	
To collection				
<u>Collection</u>				
From page 1				
From page 2				
Substructure carried to Summary				

SUPERSTRUCTURE				
<u>E In situ Concrete</u>				
<u>E05 Reinforced Concrete</u>				
A	8" x 8" Concrete Column	2	cy	
B	8" x 16" Concrete Column	1	cy	
C	8" x 18" Beam	6	cy	
D	8" Lintel	1	cy	
E	6" Slab	75	sy	
F	6" Roof slab	68	sy	
<u>E20 Formwork</u>				
G	To sides of 8" x 8" columns	32	sy	
H	To sides of 8" x 16" columns	5	sy	
J	To sides of 8" x 18" beams	49	sy	
K	To sides of 8" lintels	7	sy	
L	To soffit of beams	3	sy	
M	To soffit of roof slab	61	sy	
N	To 6" edge of floor slab	32	ly	
P	To 6" edge of Roof slab	33	ly	
To Collection				

SUPERSTRUCTURE (continued)				
<u>E30 Reinforcement</u>				
A	1/2" High tensile bars in 8" x 8" columns	254	lb	
B	1/2" High tensile bars in 8" x 16" columns	25	lb	
C	1/2" High tensile bars in floor slab	1223	lb	
D	1/2" High tensile bars in roof slab	1500	lb	
E	1/2" High tensile bars in 8" lintel	106	lb	
F	1/2" High tensile bars in beams	466	lb	
G	1/2" High tensile bars in blockwall	314	lb	
H	1/2" High tensile bars epoxied into existing wall	3	lb	
J	3/8" High tensile links in beams	470	lb	
K	3/8" High tensile links in 8" lintels	87	lb	
L	3/8" High tensile links in 8" x 8" columns	134	lb	
M	3/8" High tensile links in 8" x 16" columns	21	lb	
N	Ladder mesh to 8" block walls	117	ly	
<u>F Masonry</u>				
<u>F10 Blockwork</u>				
P	8" Thick reinforced blockwork	65	sy	
Q	Fill alternate cavities of 8" thick blockwork with lean mix concrete	33	sy	
To collection				

SUPERSTRUCTURE (continued)				
<u>Collection</u> From page 3 From page 4 From page 5				
Superstructure carried to Summary				

<u>WINDOWS / DOORS</u>				
<u>L10 WINDOWS</u>				
<u>Jalousie White Aluminium Security Window with 3" Louver</u>				
<u>including screen complete with all</u>				
<u>necessary fittings.</u>				
A	Window Size 60" x 48" (W1)	4	No.	
<u>L20 DOORS</u>				
<u>Wrought iron swing gate with capability to be locked</u>				
<u>with a lock with an outward swing as of detail D-6</u>				
<u>on Drawing#S-05</u>				
B	Door size 108" x 96" (D2)	1	No.	
<u>Aluminium Door hanging on 1 1/2" pairs of 4" stainless</u>				
<u>steel butt hinges with entrance lock,deadbolt, screens</u>				
<u>and</u>				
C	Door Size 72" x 80" (D1)	2	No.	
Door and Wiindows carried to Summary				

	<u>M FINISHINGS</u> <u>Wall finishes</u> <u>Cement and sand (1:3) render applied to;</u> Walls (internally and externally), stairs, columns, beams and lintels	144	sy		
A	Finishes Carried to Summary				

<u>DISPOSAL SYSTEMS</u> A provisional sum is required as QS remeasurement of all elements will take place. <u>Note: pipework rates shall include for all joints, fittings and connections</u> <u>R11 FOUL DRAINAGE ABOVE GROUND</u> 3" diameter PVC drain, waste pipes laid horizontally in block walls <u>R12 DRAINAGE BELOW GROUND</u> Excavate trench for pipes less than 6" diameter, average depth 2' 0", clean out (prov) 3" diameter PVC drain pipe laid in trench (Provisonal) Backfilling to pipes in trench, average depth 2' 0", level and compact (prov)				
A	1	LF		
B	3	LY		
C	10	LF		
D	1	yd ³		
Disposal Systems carried to Summary				

<u>Electrical Installation</u>					
<u>Note electrical installation specific brands will be confirmed with Project Manager and QS quantities are provisional for remeasurement</u>					
<u>Distribution boards all as drawing sheets 110 and 110A including mains circuit breakers as specified and fixing panels to blockwork</u>					
A	Excavate trench average 2' 6" deep, clean out, sand and supply and lay 4" pvc duct (Provisional)	1	Item		
B	Provide and lay 4 core 35mm2 cable supplied by(MUL) in duct (Provisional)	1	Item		
C	Panel board, 8way, single phase, 220v and 110v, 100amp isolator, 16 mm2 supply	1	No		
D	5 KVA 220v - 110v Step down Transformer	1	No		
E	Monlec meter and fuse	1	No		
<u>240 Volt circuit, PVC insulated cabling conduits</u>					
F	1.5 mm2 wiring to light fittings	1	circuits		
<u>120 Volt circuit, PVC insulated cabling conduits</u>					
G	2.5 mm2 wiring to socket outlets	1	circuits		
H	2.5 mm2 wiring to transformer	1	circuits		
<u>Fittings and accessories: Contactum or Pass and Seymour as appropriate or equally approved</u>					
J	220v socket outlet weather protected	4	No		
K	110v socket outlet	4	No		
To Collection					

<u>Electrical Installation (continued)</u>				
A	Single pole one way light switch	2	No	
B	Single pole two way light switch	2	No	
<u>Light fittings complete with lamps:</u>				
C	External wall mounted weather proof lights	1	No	
D	48" surface mounted single lamp flourescent fixture including diffuser	5	No	
<u>Builders work in connection with services</u>				
E	Allow for cutting or forming all holes and chases in concrete or block walls for fans, trunking or conduits and the like and making good on completion. (prov)	1	Item	
F	5/8" Diameter Copper bonded Steel Earth Rod 6' - 0" long driven into ground anchored with covered test well including wiring and connection to main distribution board	1	No	
G	Allow for installing connections to Monlec existing system new residence	1	No	
To Collection				
<u>Collection</u>				
From page21				
From page22				
Electrical Installation Carried to Summary				

PRELIMINARIES / GENERAL conditions <u>Project Particulars</u> Project particulars <u>Generator House; Located at Government Headquarters</u> <u>Names and addresses of employers and consultants</u> Employer; Government of Montserrat Office of the Deputy Governor Architect; Public Works Department; Ministry of Communication, Works and Labour; Montserrat; Telephone 1664-491-6611; Fax 1664-491-6659 Engineer; Public Works Department; Ministry of Communication, Works and Labour; Montserrat; Telephone 1664-491-6611; Fax 1664-491-6659 Quantity Surveyor; Public Works Department; Ministry of Communication, Works and Labour; Montserrat; Telephone 1664-491-6611; Fax 1664-491-6659 <u>Tender and contract documents</u> Documents <u>List of drawings / other documents</u> To be used for contract; Architectural Drawings; A-01 - A-08 To be used for contract; Electrical Drawings; E-01 - E-02 To be used for contract; Structural Drawings; S-01 - S-03				
To Collection				

<u>Description of the Works</u> Description of the work <u>The construction of a Generator Room</u> 41'-4" x 20'-0" <u>The Contract / Sub Contract</u> Form of contract The form of contract to be used JCT SBC/2011 with Quantities <u>Schedule of clause headings of standard conditions</u> First Recitals - The Government of Montserrat Office of the Deputy Governor wishes to have a Generator Room constructed at Government Headquarters, Brades ('the Works') and has had drawings and bills of quantities prepared which show and describe the work to be done. Second Recital - The Contractor has supplied The Government of Montserrat, Office of the Deputy Governor with a fully priced copy of the bills of Quantities, which for identification has been signed or initialled by or on behalf of each party ('the Contract Bills'); and has provided the Government of Montserrat, Office of the Deputy Governor with the priced schedule of activities annexed to this Contract ('the Activity Schedule') Third Recital - The drawings are numbered/listed in annexed to this Contract ('the Contract Drawings') and have for identification been signed or initialled by or on behalf of each Party. Article 1: Contractor's obligations				
To Collection				

<u>Schedule of clause headings of standard conditions</u> The Contractor shall carry out and complete the Works in accordance with the Contract Documents. Article 2: Contract Sum The Contract Sum shall be in Eastern Caribbean Dollars; Delete ('Exclusive of VAT') and insert Inclusive of duties', consumption and customs services and taxes'. Article 3: Project Architect/Contract Administrator The Project Architect/Contract Administrator as listed in Project Particulars. Article 4: Quantity Surveyor The Quantity Surveyor as listed in Project Particulars. Article 8: Arbitration 2.1 General Obligations 2.4 Date of Possession - progress 2.5 Deferment of possession 2.6 Early use by Employer 2.7 Work not forming part of the Contract 2.9 Construction information and Contractor's master programme 2.10 Levels and setting out of the Works. 2.12 Further drawings, details and instructions. 2.13 Preparation of Contract Bills and Employer's requirements				
To Collection				

<u>Schedule of clause headings of standard conditions</u>				
2.15 Notice of discrepancies etc.				
2.24 Materials and goods - on site				
2.25 Materials and goods - off site				
2.26 Related definitions and interpretation				
2.27 Notice by Contractor of delay to progress				
2.28 Fixing Completion Date				
2.30 Practical completion and certificates				
2.31 Non-Completion Certificates				
2.32 Payment or allowance of liquidated damages				
2.39 Certificate of Making Good				
3.1 Access for Project Architect/Contract Administrator				
3.2 Person-in-charge				
3.3 Employer's representative				
3.4 Clerk of works				
3.5 Replacement of Architect/Contract Administrator or Quantity Surveyor				
3.6 Contractor's responsibility				
3.7 Consent to sub-contracting				
3.8 List in Contract Bills				
3.9 Conditions of sub-contracting				
3.10 Compliance with instructions				
To Collection				

<u>Schedule of clause headings of standard conditions</u>				
3.11 Non-compliance with instructions				
3.12 Instructions other than in writing				
3.13 Provisions empowering instructions				
3.14 Instructions requiring Variations				
3.15 Postponement of work				
3.16 Instructions on Provisional Sums				
3.17 Inspection - tests				
3.18 Work not in accordance with the Contract				
3.19 Workmanship not in accordance with the Contract				
3.20 Executed work				
3.21 Exclusion of persons from the Works				
4.1 Work included in Contract Sum				
4.2 Adjustment only under the Conditions				
4.3 Items included in adjustments				
4.4 Taking adjustments into account				
4.5 Final adjustment				
4.8 Advance payment				
4.9 Interim payments - due dates and amounts due				
4.10 Interim Certificates and valuations				
4.11 Contractor's Interim Applications and Payment Notices				
To Collection				

<u>Schedule of clause headings of standard conditions</u>				
4.12 Interim payments - final date and amount				
4.15 Final Certificate and final payment				
4.17 Off-site materials and goods				
4.18 Rules on treatment of Retention				
4.20 Retention - amounts and periods				
5.1 Definition of Variations				
5.2 Valuation of Variations and provisional sum work				
5.3 Variation Quotation				
5.4 Contractor's right to be present at measurement				
5.5 Giving effect to Valuations, agreements etc.				
5.7 Daywork				
6.1 Liability of Contractor - personal injury or death				
6.2 Liability of Contractor - injury or damage to property				
6.3 Injury or damage to property - Works and Site Materials excluded				
6.4 Contractor's insurance of his liability				
6.5 Contractor's insurance of liability of Employer				
6.6 Excepted Risks				
6.8 Related definitions				
6.14 Application of clauses				
6.15 Compliance with Joint Fire Code				
To Collection				

<u>Schedule of clause headings of standard conditions</u>				
6.16 Breach of Joint Fire Code - Remedial Measures				
6.17 Joint Fire Code - amendments/revisions				
7.1 General				
7.2 Rights of enforcement				
7.3 Notices				
7.4 Execution of Collateral Warranties				
8.1 Meaning of insolvency				
8.2 Notices under section 8				
8.4 Default by Contractor				
8.5 Insolvency of Contractor				
8.6 Corruption				
8.7 Consequences of termination under clauses 8.4 to 8.6				
8.8 Employer's decision not to complete the Works				
8.10 Insolvency of Employer				
8.12 Consequences of Termination under clauses 8.9 to 8.11, etc.				
9.3 Conduct of arbitration				
9.4 Notice of reference to arbitration				
9.5 Powers of Arbitrator				
9.6 Effect of award				
9.7 Appeal - questions of law				
To Collection				

<u>Special conditions or amendments to standard conditions</u> 2.38 Schedules of defects and instructions Delete the words ' in respect of the Contractor's Designed Portion ' 2.14 Contract Bills and CDP Documents - errors and inadequacy Delete the words ' or in the CDP Analysis' 2.8 Contract Documents. Delete the words ' the CDP Documents (where applicable)' 2.29 Relevant Events Replace "United Kingdom Government" with "Government of Montserrat" 6.4 Contractor's insurance of his liability Clause 6.4.1.1 insert the words 'applicable in Montserrat' after the words 'relevant legislation'. 6.7 Insurance Options Insurance A Applies 6.9 Sub-contractors - Specified Perils cover under Joint Names All Risks Policies Clause 6.9.1 Delete the words ' and the Employer, where Insurance Option B or C applies' and " B.1 or C.2'. Clause 6.9.2 Delete the words ' B.2.1.2 or C.3.1.2'. 6.10 Terrorism Cover - policy extensions and premiums				
To Collection				

A	<u>Special conditions or amendments to standard</u> <u>Special conditions or amendments to standard conditions</u> Clause 6.10.1 Delete the words ' or the Employer, where insurance Option B or C applies'. 6.11 Terrorism Cover - non-availability - Employer's options Clause 6.11.5.3 Delete 8.9 Default by Employer Clause 8.9.1.1 Delete the word ('VAT') and insert Inclusive of duties, consumption and customs services and taxes'. 8.11 Termination by either Party Clause 8.11.1.5 Replace the words ' United Kingdom Government' with ' Government of Montserrat'. <u>Appendix insertions</u> 1.1 Date for Completion of the works clause 2.4; Date of possession: To be inserted Clause 2.32.2; Liquidated Damages At a rate of \$420 per day or part of a day 4.8. Advance Payment; The Advance payment of 10% of the Contract Sum will be paid to the Contractor upon Contract Signature and the provision of an Advance payment Guarantee subject to the approval of the Financial Secretary. It will be reimbursed to the Employer in monthly equal installments commencing at Interim Certificate No.1				
	B Clause 4.20.1; Percentage of Retention (5 percent)	5 %			
	To Collection				

<u>Appendix insertions</u> Clause 6.4.1.2; Contractor's insurance: Insurance cover (for any one occurrence or series of occurrences arising out of one event Clause 6.5.1; Insurance liability of Employee Insurance is Required Clause 6.7; Insurance of the Works Clause 6.7A Applies Clause 6.14; Joint Fire Code Applies Clause 9.4.1; Appointment of Arbitrator President or a Vice President pf the Royal Institue of British Architects in accordance wirth laws of Montserrat <u>Employers insurance responsibility</u> Minimum Amount of third Paty Insurance EC\$ 400,000.00 <u>Performance guarantee bond / collateral warranties</u> Amount of Bond or Guarantee (if required) 10 percent of contract price <u>Employers requirements: Tendering / Sub-letting / Supply</u> Employers requirements and limitations <u>TEXT TO BE DEFINITIVE:</u> Do not alter, add to or modify the text of the Bills of Quantities as this will not be recognized or taken into account and could lead to a disqualification of the tender. If the Contractor wishes to make an observation as to the printed text in connection to the rates he has inserted, such observation shall form the subject of a separate letter to accompany his tender.	1			
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	<u>PRICING</u> Price in ink each item in the Bills of Quantities which is considered to have a money value. If the Tenderer omits to price any item it will be deemed that either he will perform the services described free of charge or that a cost of such service has been included against items appearing elsewhere in the Bills. The rates inserted shall be deemed to be in Eastern Caribbean Currency. Prices inserted shall be deemed to include for the payment of customs and other duties, import levies and the like, for the provision of all labour, materials and plant for transport, for deliveries to Site (where not specifically mentioned in the description) for temporary storage of materials and return of empties, for the erection, maintenance and removal of scaffolding, temporary staging, plankways protection, etc. and for all other things necessary for the completion of the works in accordance with the drawings and Bills of Quantities to the reasonable satisfaction of the Project Architect. <u>FLUCTUATIONS</u> No adjustments shall be made for fluctuations in the cost of labour and materials. <u>QUERIES</u> Tenderers shall refer all queries arising out of this Tender to the Project Architect whose decision for the purpose of tendering shall be final.	1			
	To Collection				

<u>QUERIES</u> Queries shall be raised no later than seven days before the date of tenders so as to permit the circularizing of the replies to all tenderers, if this is considered necessary. Such answers as are necessary shall be given as a matter of assistance to the Tenderer but they shall not be interpreted as adding to, or taking away from, or otherwise altering the meaning and intent of the tender documents, and/or the Tenderer's obligations thereunder, which can be varied only by a letter signed by the Project Architect. <u>TIME</u> Time is critical in this contract, therefore the agreed contract completion date must be adhered to. <u>PERIOD OF VALIDITY</u> Tenders shall remain open for consideration (unless previously withdrawn) for not less than 90 days from the date fixed for the submission of lodgment of tenders. Information on the date for possession/commencement can be found in section A20 <u>EXCLUSIONS</u> If the Contractor cannot tender for any part(s) of the Work as defined in the tender documents the Project Architect must be informed as soon as possible, defining the relevant part(s) and stating the reason(s) for the inability to tender. <u>SUBMISSION:</u> The completed Form of Tender and the Priced Bills of Quantities and submit in a inner sealed envelope bearing the title of the Project and the Tenderer's name. The inner envelope should then be placed in an outer envelope which shall only bear the title of the Project and should be dropped off to the Address stated in the Instructions to Tender on or before the deadline date.				
To Collection				

	<u>PRELIMINARIES IN THE SPECIFICATION</u> The Preliminaries/General conditions sections (A10-A55 inclusive) have been prepared in accordance with the Standard Method of Measurement of Building Works Seventh Edition Revised 1998 Incorporating Amendments 1+2 SMM7. <u>ERRORS</u> Arithmetical errors discovered in the Tenderer's priced Bills of Quantities will be dealt with as follows. If the total net error would cause a divergence from the tendered sum of over \$1,000.00 or less, or in the former case if the Tenderer has elected to stand by his/her tender, the total net error will be added to or deducted from the total shown against Preliminaries so that the tendered sum remains the same. For the purpose of administering the contract, for interim payments and for the settlement of accounts, the amount of any error adjustment shall be calculated as a percentage of the tendered sum (P.C.) and Provisional Sums expected) and applied to all rates. <u>ACCEPTANCE OF TENDER:</u> The Employer does not bind himself to accept the lowest or any tender or to reimburse tenderers for any expense incurred in tendering, nor offer no guarantee that any tenderers will be recommended for acceptance or accepted.				
	To Collection				

	<u>PROGRAMME/METHOD STATEMENT/RISK ANALYSIS</u> <u>Documents Provided on Behalf of the Employer</u> BILLS OF QUANTITIES AND DRAWINGS; Read 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 reasonable inferred there from a list of the drawings from which the Bills of Quantities have been prepared is embodied in this document. Items in the Materials and Workmanship Section of these Bills of Quantities are deemed to qualify and to be part of every description of measured work to which they refer. THE MEASURED QUANTITIES; For purposes of ordering products and constructing the Works: The accuracy and sufficiency of the measured quantities is not guaranteed. The specification and drawings shall take precedence over the measured quantities. THE SPECIFICATIONS; All sections of the specification must be read in conjunction with Main Contract Preliminaries/General conditions.				
	To Collection				

	<u>Documents Provided on Behalf of the Employer</u> DISCREPANCIES; Verify on drawings and on site all dimensions shown or given before commencing construction. Work to figured dimensions only and in the absence of any dimensions, or in case of discrepancies between dimensions, bring the matter to the immediate attention of the Project Architect for a decision. For the purpose of construction, the drawings shall take precedence over the Bills of Quantities but in all cases of discrepancies between the documents, bring the matter to the attention of the Project Architect whose decision shall be final and binding. The accuracy of dimensions scaled from the drawings is not guaranteed. Obtain from the Project Architect/CA any dimensions required but not given in figures on the drawings nor calculable from figures on the drawings. COPIES; Two copies of the Bills of Quantities and all 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 Project Architect, to whom they shall be returned at the completion of the contract. After execution of the contract, two copies of the specification will be issued to the contractor in accordance with the contract. Additional copies will be issued on request, if available, but will be charged to the contractor. ORDERING OF MATERIALS; Do not use the Bills of Quantities as a ordering list. Tenderers are advised to prepare their own material loading list based on the construction drawings issued and on measurements where appropriate.				
	To Collection				

<u>Employer's requirements: Management of the Works</u>				
Employers requirements and limitations				
<u>Generally</u>				
THE SITE; Tenderers are expected to visit the site and ascertain the nature of the work to be done, means of access and egress, the availability and positions of essential services, viz. electricity, water, etc., condition of the Site, necessity for and extent of sleeper roads, temporary crossings and temporary drainage, working space and storage for materials and allow in this tender for all such factors which may affect the execution of the Works.				
INSURANCE; Before starting work on site submit documentary evidence and/or policies and receipts for the insurance required by the Conditions of Contract.				
INSURANCE CLAIMS; If any event occurs which may give rise to any claim or proceeding in respect of loss or damage to the Works or injury or damage to persons or property arising out of the Works, forthwith give notice in writing to the Employer, the Project Architect/CA and the Insurers. Indemnify the Employer against any loss which may be caused by failure to give such notice.				
CLIMATIC CONDITIONS; Keep an accurate record of: Daily maximum and minimum air temperatures (including overnight). Delays due to adverse weather, including description of the weather, type(s) of work affected and number of hours lost.				
To Collection				

	<u>Generally</u> SUPERVISION; Accept responsibility for co-ordination, supervision and administration of the Works, including all subcontractor. Arrange and monitor a programme with each subcontractor, supplier, local authority and statutory undertaker, and obtain and supply information as necessary for co-ordination of the work. MAINTENANCE OF ROADS; Maintain the public and private roads, footpaths, ditches, curbs, and the like. Keep the approaches to the site free from excavated materials, mud and debris. The Contractor is to make good any damage due to any cause within his control at his own expense or pay any cost and charges in connection therewith. TEMPORARY ROADS; Provide, maintain and alter as necessary all temporary roads, tracks, paths, hard standings, pavement crossings, temporary works and the like. Reinstate all ground and all work disturbed on completion of the works. PROTECTION OF PUBLIC AND PRIVATE SERVICES; Protect, uphold, temporarily divert and maintain all pipes, ducts, drains, sewers, service mains, overhead cables and the like during the execution of the works. The Contractor is to make good any damage due to any cause within his control at his own expense or pay any cost and charges in connection therewith. Approval shall be obtained at least two weeks in advance if any service have to be interrupted.				
	To Collection				

	<u>Generally</u> SITTING OF TEMPORARY WORKS AND OF PERMANENT SOIL DISPOSAL; Obtain the approval of the Project Architect to the sitting of permanent soil disposal and notify him of the proposed sitting of materials, of temporary soil and rubbish deposits and of temporary buildings, temporary roads and the like. TEMPORARY WATER DISPOSAL; Provide and maintain temporary gutters, channels, drains and the like for the disposal of surface and other water. Alter, shift and adapt from time to time as necessary. WATER LEVEL; Information on soil tests and water level is obtained from a soil Investigation report which is available for inspection at the office of the Engineer during normal working hours. <u>PROGRAMME/PROGRESS</u> A OVERTIME; The contractors attention is drawn to the restricted working hours as set out under the relevant item of this Section of the Bills of Quantities. Work outside those hours specified or authorised later by the Project Architect shall be permitted. COMMENCEMENT OF WORK; Inform the Project Architect/CA at least 5 working days before the proposed date of commencement of work on site. NOTICE OF COMPLETION; Give the Project Architect/CA at least 2 weeks notice of the anticipated dates of Practical Completion of the whole or parts of the Works. ADVERSE WEATHER; Use all reasonable and suitable building aids and methods to prevent or minimize delays during adverse weather conditions.				
	To Collection				

	<u>CONTROL OF COST</u> MEASUREMENT; Give reasonable notice to the Quantity Surveyor before covering up work which the Quantity Surveyor requires to be measured. INTERIM VALUATIONS; At least 3 days before the end of each established Period for interim valuations submit to the QS details of amounts due under the Contract together with all necessary supporting information. UNFIXED MATERIALS; At the time of each valuation disclose to the QS which of the unfixed materials and goods on site are free from, and which are subject to, any reservation of title inconsistent with passing or property as required by the Conditions of the Contract, together with their respective values. When requested provide evidence of freedom from reservation of title.				
	To Collection				

<u>Employers requirements: Quality standards / control</u> Employers requirements and limitations <u>MATERIALS AND WORK GENERALLY</u> GOOD PRACTICE; Where and to the extent that materials, products and workmanship are not fully detailed or specified they are to be: a) Of a standard appropriate to the Works and suitable for the functions stated in or reasonable to be inferred from the project documents, b) In accordance with relevant good building practice. GENERAL QUALITY OF PRODUCTS; a) Materials and workmanship are to be of the best quality of their respective kinds, and those for which there is a British Standard or Code of Practice are to conform thereto unless otherwise stated. Workmanship is to conform to sound building practice unless otherwise described or shown. b) Products to be new unless otherwise specified. BEST QUALITY; Materials and workmanship are to be of the best quality of their respective kinds, and those for which there is a British Standard or Code of Practice are to conform thereto unless otherwise stated. Workmanship must conform to sound building practice unless otherwise described or shown. APPLY THROUGHOUT; Description of materials and workmanship given in any one Section of Trade are to apply throughout the Bills of Quantities unless otherwise described.				
To Collection				

	<u>MATERIALS AND WORK GENERALLY</u> BRAND NAMES; Where materials are described by Brand or Trade names such names are given as indication of type, quality etc. Allow in tendering for these particular materials but alternatives may be used with the Project Architects approval. If approval is not given the materials described herein must be provided. All branded materials shall be used strictly in accordance with the respective manufacturer's recommendations or instructions. The Contractor shall be responsible for obtaining from manufacturers all relevant details regarding the use of their products. The Contractor shall bring immediately to the attention of the Project Architect any differences between the manufacturer's recommendations and the specification given herein for a decision on which it will take precedence. MATERIALS PROVIDE AS NECESSARY; Provide as necessary all materials required for the proper execution and completion of the Works. MATERIALS AVAILABILITY; Ensure that all materials will be available from stock and, if this is not the case, make arrangements for deliveries so that no delay is occasioned due to the non-availability of materials. A LABOUR PROVIDE AS NECESSARY; Provide as necessary, all skilled, semi-skilled and unskilled labor required for the execution and completion of the Works. Workmanship is to be of the best quality throughout, to the reasonable satisfaction of the Project Architect. Provide a competent foreman-in-charge and all other site staff such as storekeeper, timekeeper, checker, etc., necessary for the proper supervision of the Works. Any instruction given by the Project Architect to the foreman-in-charge shall be deemed to have been given to the contractor.				
	To Collection				

	<u>MATERIALS AND WORK GENERALLY</u> LABOUR AVAILABILITY; Ensure that all labour will be available for the Works and allow in the tender for the additional cost of any importation of labour from other districts that may be deemed necessary. TRANSPORTATION PROVIDE AS NECESSARY; Provide all necessary transport for labour, materials and plant. A SAMPLES; Samples and materials, colors, finished work, etc. shall be provided, without charge to the Project Architect for approval if required. Keep approved samples on site in an approved position for use as reference by craftsmen. No materials or workmanship which in the opinion of the Project Architect is of a lower quality than the approved sample will be accepted by the Project Architect. <u>ACCURACY/SETTING OUT GENERALLY</u> RECORD DRAWINGS; Keep accurate records, in a form acceptable to the Project Architect, of the position and routing of all services internally and externally, whether executed by own workman or others, and deliver in duplicate fully detailed drawings to the Architect not later than seven days after completion of the particular installation. Record details of all grids lines, setting-out stations, bench marks and profiles on the site setting-out drawings. Retain on site throughout the Contract and hand to the Project Architect/CA on Completion				
	To Collection				

	<u>ACCURACY/SETTING OUT GENERALLY</u> SETTING OUT; Check the levels and dimensions of the site against those shown on the drawings, and record the results on a copy of the drawings. Notify the Project Architect/CA in writing of any discrepancies and obtain instructions before proceeding. Inform the Project Architect/CA when overall setting out is completed and before commencing construction. <u>SUPERVISION/INSPECTION/DEFECTIVE WORK</u> SUPERVISION; In addition to the constant management and supervision of the Works provided by the Contractor's person in charge, all significant types of works must be under the close control of competent trade supervisors to ensure maintenance of satisfactory quality and progress. CO-ORDINATION OF ENGINEERING SERVICES; The site organisation staff must include one or more persons with appropriate knowledge and experience of mechanical and electrical engineering services to ensure compatibility between engineering services, one with another and each in relation to the Works generally. Submit to the Project Architect/CA, when requested, CV's or other documentary evidence relating to the staff concerned. DEFECTIVE WORK; Any defective materials or sub-standard workmanship not in accordance with this contract shall be removed and replaced without charge.				
	To Collection				

A	<u>SUPERVISION/INSPECTION/DEFECTIVE WORK</u> TEST; Provide materials for and carry out tests as and when directed by the Project Architect. If the results of any tests are unsatisfactory bear the cost of any resulting reconstruction which may be ordered by the Project Architect. Make the necessary provisions in your bid price for the cost of testing materials or workmanship by independent agencies as may be directed by the Project Architect. The cost of testing materials and workmanship found not to be in accordance with the Specification shall be borne by the Contractor. Load testing of piles (if applicable) is measured in the Measured Works Section of the Bills of Quantities. <u>WORK AT OR AFTER COMPLETION</u> GENERAL CLEAR AWAY AND CLEAN; Clear away all plant and temporary work unless otherwise described or directed and make good. Clear away all existing rubbish, debris and surplus materials as they accumulate and at completion. Clean floors, pavings, glass both sides and all external surfaces and leave the Works clean and perfect at completion. <u>Employers requirements: Security / Safety /Protection</u> Employers requirements or details stated <u>Noise and pollution control</u> Comply generally with the Local laws as it applies to noise pollutions. Comply generally with the recommendations of BS 5228 Part 1, clause 9.3 for minimising noise levels during the execution of the Works. Take all reasonable precautions to prevent pollution on the site, the Works and the general environment.		Item		
	To Collection				

<u>Security</u> 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 including those of sub-contractors and accept all risks for damage or loss. Provide all necessary temporary hoarding, barricades, planked footways, gantries, screens, etc., for the protection of the work people, occupants, adjoining property and the public and alter, adapt and maintain them as necessary and clear away on completion and reinstate all work disturbed to the satisfaction of the relevant authorities. <u>Protection of work in all sections</u> Case up and protect all work including that executed by sub-contractors and specialists from any kind of injury and damage. Provide all necessary temporary roofs, tarpaulins, screens, planking and general protection that may be required and clear away when no longer needed and reinstate any work which has become damaged or stained. <u>Explosive</u> Do not use <u>Nuisance</u> Take all reasonable precautions to prevent nuisance from smoke, dust, rubbish, vermin and other causes <u>Fire prevention</u> Smoking will not be permitted on the site, equip appropriate areas with fire equipment and schedule inspections to guard against risk of fire. Burning of materials arising from the work will not be permitted.				
To Collection				

<u>Water</u> Prevent damage from storm and surface water. (items for keeping the site and excavations free from water are given elsewhere). <u>Employers requirements: Specific limitations on method/ sequence timing / use of site</u> Employers requirements or limitations, details stated <u>Access</u> Prevent any trespassing by unauthorised persons on the site of the Works and any trespassing on the adjoining property by own employees or those of sub-contractors and indemnify the Employer against any claims, costs or proceedings whatsoever arising out of any trespassing or alleged trespassing. <u>Use of the site</u> Inform the Project Architect/CA of the intended siting of all spoil heaps, temporary works and services. Provide suitable temporary accommodation for site meetings, the room may be part of the contractors own site office. Provide and maintain in a clean condition sanitary accommodation for the Employer's representatives, either separate or shared with the Contractor's supervisory staff. The accommodation must include an adequate number of appliances, wash hand basin(s) with adequate lighting and ventilation. <u>MAINTAIN</u> Maintain, alter, adapt and move temporary works and services as necessary. Remove when no longer required and make good.				
To Collection				

	<u>Contractors general cost items: Management and staff</u> Management and staff A The Project Architect in conjunction with the Contractor shall select all temporary buildings including areas for use by nominated sub-contractors as may be necessary. The Ground on which temporary buildings are sited shall be made good after removal of these buildings. Provide, erect and maintain suitable office accommodation and Mess-rooms for staff and workmen and remove on completion. Provide, erect and maintain suitable sheds for storage of materials and remove on completion. Provide temporary latrines for the use of workmen, to the satisfaction of the Project Architect and the relevant Sanitary Authorities and empty and cleanse same as and when required and clear away on completion. For the purposes of this Contract the Contractor shall provide suitable space within the general site office, provided for the Contractor's supervisor, for a large desk with two chairs for use by the Employers consultants or representatives. This work will be carried by the Contractor. <u>Contractors general cost items: Services and facilities</u> Services and facilities <u>Lighting</u> B Provide all necessary artificial lighting and power, including that for sub-contractors and specialists, and pay all charges for drawing off main supply. This work will be carried by the Electrical Contractor.				
	To Collection				

[illegible]

	<u>Protection of work in all sections</u>				
A	Allow for all work in connection with protecting all the Works, by whatever means necessary from any kind of injury or damage. Provide all necessary temporary roofs, tarpaulins, screens, planks and general protection that may be required and clear away when no longer needed and reinstate any work which has become damaged or stained. <u>Maintain public and private roads</u> The Contractor shall be responsible for maintaining and protecting private and public roads and that of drainage. The Contractor shall indemnify the Employer against any claim for damage to public and private roads and that of drainage caused by the execution of the Works		Item		
	To Collection				

	<u>General attendance on nominated sub-contractors</u>				
A	Provide attendance upon, cut away for and make good after trades performed by own workmen and own sub-contractors and leave perfect on completion. Provide general attendance on nominated sub-contractors which shall be deemed to include allocation, for free use by sub-contractor, 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 mess-rooms, sanitary accommodation and their work and cleaning away rubbish. When a lump sum price is inserted against this item it shall be adjusted in direct proportion to the amount of the nominated sub-contract P.C. sum actually expended. Provide special attendance on nominated sub-contractors e.g. cutting chases and the like, only when specifically instructed so to do following the items in the Bills of Quantities which describe the particular nominated 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 nominated sub- contract P.C. sum actually expended.				
	<u>Contractors general cost items: Mechanical plant</u>				
	Hoists				
B	Provide all hoist and the like for the proper execution and completion of the Works.				
	Transport				
C	Provide all transport and the like for the proper execution and completion of the Works.				
	To Collection				

	Concrete plant				
A	Provide all concrete plant and the like for the proper execution and completion of the Works.				
	<u>Contractors general cost items: Temporary works</u>				
	Temporary roads				
B	Provide and maintain all necessary temporary roads, tracks, gangways, bridges and the like, within the site for the proper completion of the works				
	Scaffolding				
C	Provide all scaffolding necessary for the proper execution and completion of the Works including altering, adapting and maintaining during the progress of the works				
	Hoardings, fans, fencing etc.				
D	Provide and maintain all necessary temporary fences, hoardings, planked footways, guard rails, gantries and the like necessary for the protection of the public and the proper execution of the Works and comply with the requirements of all official bodies having authority in connection with the Works		Item		
	<u>A53: WORK BY STATUTORY AUTHORITIES</u>				
	Include the following Provisional Sums:-				
	<u>For work by statutory undertakings</u>				
F	electricity main and meter		Item		
	<u>A54: PROVISIONAL WORK</u>				
	Include the following Provisional Sums:-				
	<u>For undefined work</u>				
G	Contingencies		Item		
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	7 - PRELIMINARIES Carried to Summary				

SUMMARY Demolition Substructure Superstructure Windows/ Doors Finishings Disposal Systems Electrical Installation Preliminaries		from page 1 from page 3 from page 06 from page 07 from page 08 from page 09 from page 11 from page 43			
TOTAL OF BUILDING WORKS TO GENERAL SUMMARY					