Description	Qty	Unit	Rate	Amount
DRAWING REGISTER **ARCHITECTURAL DRAWINGS** **Kearney Architecture** 000-01 (Rev B) - Cover Sheet 010-01 (Rev B) - Perspective 1 010-02 (Rev B) - Perspective 2 010-03 (Rev B) - Perspective 3 100-01 (Rev B) - Locality Plan 100-02 (Rev B) - Site Plan 100-03 (Rev B) - Detailed Site Plan 120-00 (Rev B) - Site Sections 200-01 (Rev B) - GA - Ground Floor Plan 200-02 (Rev B) - GA - First Floor Plan 210-01 (Rev B) - Roof Plan 220-01 (Rev B) - Structural Setout Plan - Ground Floor 220-02 (Rev B) - Structural Setout Plan - First Floor 240-01 (Rev B) - Reflected Ceiling Plan - Ground Floor 240-02 (Rev B) - Reflected Ceiling Plan - First Floor 250-01 (Rev B) - Partition Plan - Ground Floor 250-02 (Rev B) - Partition Plan - First Floor 250-21 (Rev B) - Wall Type Schedule 300-01 (Rev B) - External Elevations - Sheet 1 400-01 (Rev B) - Sections - Sheet 1 400-02 (Rev B) - Sections - Sheet 2 450-01 (Rev B) - Detail Sections - Sheet 1 450-02 (Rev B) - Detail Sections - Sheet 2 450-03 (Rev B) - Detail Sections - Sheet 3 500-01 (Rev B) - Stair 1 - Details 500-02 (Rev B) - Stair 2 - Details 520-01 (Rev B) - Room Detail - Toilets 520-02 (Rev B) - Room Detail - PWD + Shower 520-03 (Rev B) - Room Detail - Kitchen Ground Level and Kitchen First Floor Level 520-04 (Rev B) - Room Detail - Office Ground Level and Office First Floor Level 520-05 (Rev B) - Room Detail - Conference Ground Level and Conference First Floor Level 520-06 (Rev B) - Room Detail - Cashier and Reception Ground Level 520-07 (Rev B) - Room Detail - Executive 1 and CEO 520-08 (Rev B) - Room Detail - VMO and CFO and Registry 520-09 (Rev B) - Room Detail - Security Room 600-01 (Rev B) - Construction Details - Sheet 1				

Description	Qty	Unit	Rate	Amount
DRAWING REGISTER (Cont) **(Cont) ARCHITECTURAL DRAWINGS** **(Cont) Kearney Architecture** 700-01 (Rev B) - Glazing Schedule - Sheet 1 720-01 (Rev B) - Door Schedule - Sheet 1 740-01 (Rev B) - Metalwork Details - Sheet 1 740-02 (Rev B) - Metalwork Details - Sheet 2 740-03 (Rev B) - Metalwork Details - Sheet 3 740-04 (Rev B) - Metalwork Details - Sheet 4 740-05 (Rev B) - Metalwork Details - Sheet 5 800-01 (Rev B) - Joinery Details - Kitchen Ground Floor and Kitchen First Floor 800-02 (Rev B) - Joinery Details - Reception 800-03 (Rev B) - Joinery Details - Cashier and Registry 800-04 (Rev B) - Joinery Details - Conference Room 1 and Conference Room 2 800-05 (Rev B) - Joinery Details **CIVIL DRAWINGS** **NRW Macallan (Fiji) Ltd.** SN (Rev 0) - Structural Notes CN (Rev 0) - Civil Notes C100 (Rev 0) - Topo Plan C100a (Rev 0) - Bulk Earthworks Plan C101 (Rev 0) - Grid 1 & 2 C102 (Rev 0) - Grid 3 C103 (Rev 0) - Grid 4 C104 (Rev 0) - Grid 5 C105 (Rev 0) - Grid 6 C106 (Rev 0) - Grid 7 C107 (Rev 0) - Grid Line A & B C108 (Rev 0) - Grid Line C & D C109 (Rev 0) - Grid Line E & F C110 (Rev 0) - Grid Line G & H C111 (Rev 0) - Section Along Retaining Wall 1 & 2 C112 (Rev 0) - Retaining Wall Foundation Plan C113 (Rev 0) - Retaining Wall Section & Detail C114 (Rev 0) - Drainage Plan **STRUCTURAL DRAWINGS** **NRW Macallan (Fiji) Ltd.** G000 (Rev A) - Cover Sheet G001 (Rev A) - General Notes (Sheet 1 of 4) G002 (Rev A) - General Notes (Sheet 2 of 4) G003 (Rev A) - General Notes (Sheet 3 of 4) G004 (Rev A) - General Notes (Sheet 4 of 4)				

Description	Qty	Unit	Rate	Amount
DRAWING REGISTER (Cont) **(Cont) STRUCTURAL DRAWINGS** **(Cont) NRW Macallan (Fiji) Ltd.** S001 (Rev A) - Floundation Layout Plan S002 (Rev A) - Ground Floor Layout Plan S003 (Rev A) - Ground Floor Slab Layout Plan S004 (Rev A) - First Floor Slab Layout Plan S005 (Rev A) - First Floor Framing Layout Plan S006 (Rev A) - Upper Roof Framing Layout Plan S020 (Rev A) - Elevations (Sheet 1 of 2) S021 (Rev A) - Elevations (Sheet 2 of 2) S022 (Rev A) - Section 1 S023 (Rev A) - Section 2 **MECHANICAL SERVICES DRAWINGS** **Temo Consulting** M0000 (Rev 0) - Drawing Schedule, Legends and Symbols, Abbreviations and General Notes M0001 (Rev 0) - Equipment Schedule (Sheet 1 of 2) M0002 (Rev 0) - Equipment Schedule (Sheet 2 of 2) M0010 (Rev 0) - Overall Site Plan M0100 (Rev 0) - Ground Floor - Air Conditioning and Ventilation Layout M0200 (Rev 0) - First Floor - Air Conditioning and Ventilation Layout M0300 (Rev 0) - Section A M0400 (Rev 0) - Miscellaneous Details **ELECTRICAL SERVICES DRAWINGS** **Temo Consulting** E0000 (Rev 0) - Drawing Schedule, Legends and Symbols, Abbreviations and General Notes E0001 (Rev 0) - Site Plan - Electrical Infrastructure Layout E0002 (Rev 0) - Site Plan - Lighting Layout E0100 (Rev 0) - Ground Floor - Lighting Layout E0110 (Rev 0) - Ground Floor - Power Layout E0200 (Rev 0) - First Floor - Lighting Layout E0210 (Rev 0) - First Floor - Power Layout				

Description	Qty	Unit	Rate	Amount
DRAWING REGISTER (Cont) **FIRE SERVICES DRAWINGS** **Temo Consulting** F0000 (Rev 0) - Drawing Schedule, Legends and Symbols, Abbreviations and General Notes F0100 (Rev 0) - Ground Floor - Fire Services Layout F0200 (Rev 0) - First Floor - Fire Services Layout F-MISC (Rev 0) - Miscellaneous Details **COMMUNICATION SERVICE DRAWINGS** **Temo Consulting** C0000 (Rev 0) - Drawing Schedule, Legends and Symbols, Abbreviations and General Notes C0010 (Rev 0) - Overall Site Plan C0100 (Rev 0) - Ground Floor - Structured Cabling Layout C0110 (Rev 0) - First Floor - Structured Cabling Layout **HYDRAULIC SERVICE DRAWINGS** **Temo Consulting** H0000 (Rev 0) - Drawing Schedule, Legends and Symbols, Abbreviations and General Notes H0001 (Rev 0) - Equipment Schedule Hot Water Layout H0010 (Rev 0) - Overall Site Plan - Water Supply Layout and DCW Tanks and Pump Room - Enlarged Plan H0100 (Rev 0) - Ground Floor - Water Supply Layout H0200 (Rev 0) - First Floor - Water Supply Layout Drainage Layout H0110 (Rev 0) - Overall Site Plan - Drainage Layout and Invert Levels H0110 (Rev 0) - Ground Floor - Drainage Layout H0210 (Rev 0) - First Floor - Drainage Layout H0310 (Rev 0) - Roof Level - Drainage Layout				

Description	Qty	Unit	Rate	Amount
DRAWING REGISTER (Cont) **(Cont) HYDRAULIC SERVICE DRAWINGS** **(Cont) Temo Consulting** Miscellaneous H-MISC-A (Rev 0) - Miscellanous Details - A H-MISC-B (Rev 0) - Miscellanous Details - B H-MISC-C (Rev 0) - Miscellanous Details - C				

Description	Qty	Unit	Rate	Amount
DRAWING REGISTER (Cont)				
COLLECTION				
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DRAWING REGISTER				

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Particular Conditions, Technical Specifications, and Drawings.		Note		
C	The quantities given in the Bill of Quantities are estimated and provisional and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.		Note		
D	The rates and prices bid in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.		Note		
E	A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.		Note		
F	The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.		Note		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) PREAMBLES				
A	General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.		Note		
B	Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clauses 13.4 and 13.5 of the General Conditions except with respect to DAAB Fees and Expenses for which no instruction will be required from the Engineer.		Note		
C	The method of measurement of completed work for payment shall be in accordance with ASMM Current Edition		Note		
D	Bidders shall price the Bill of Quantities in local currency only and shall indicate in the Appendix to Bid the percentage expected for payment in foreign currency or currencies.		Note		
	DRAWINGS				
E	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
F	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
G	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
B	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	NAMES OF PARTIES				
	Principal				
	Ministry of Fishing and Marine Resources (MFMR) Kukum Highway, Honiara Contact - Robert D Meyenn				
	Project Manager & Quantity Surveyor				
	FMC Pacific (SI) Ltd. First Floor, Anthony Saru Building Honiara, Solomon Islands Contact - Rick Bagby				
	DESCRIPTION OF THE SITE				
C	The site is situated at Auki, Malaita Province, Solomon Islands		Note		
D	The Contractor will be deemed to have visited the site before tendering and inspected all existing structures and conditions, adjacent or abutting buildings, trial excavations and similar.		Note		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	LIMITS OF BUILDING SITE				
A	The area of the site for the Contractor's use shall be limited to those areas as shown on the drawings and as directed on site. The Contractor's use includes site establishment, sheds, working and storage areas, vehicular access and parking, temporary fencing and the like.		Note		
	TAXES AND RELATED CHARGES				
B	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	PRICING OF PRELIMINARIES				
C	References only have been made in the Preliminaries Section of these Bill of Quantities to the "Tender Conditions" and "Special Conditions of Contract" document. It is the Tenderers' obligation to refer to all of these documents in pricing the Bill of Quantities and to allow for any cost implications in connection with the various contractual conditions and requirements referred to therein.		Note		
D	References only have been made in the Preliminaries Section of these Bill of Quantities to clauses of the Tender Conditions and Schedules, Special Conditions of Contract and the Annexure to the Contract. It is the Tenderers' obligation to refer to all of these documents in pricing the Bill of Quantities and to allow for any cost implications in connection with the various contractual conditions and requirements referred to therein.		Note		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) PRICING OF PRELIMINARIES				
A	The word "Item" has been placed only against references to clauses in the foregoing documents which it is expected the Tenderer will price. However, the Tenderer should also price any other references to clauses where he considers that costs may be incurred in complying with the requirements of these clauses.		Note		
B	If the Tenderer leaves particular references to clauses unpriced it will be deemed that the clauses referred to have their costs included elsewhere or that the Tenderer considers that no costs will be incurred in relation to those clauses.		Note		
	TENDER CONDITIONS				
C	TENDER CONDITIONS - Refer to Tender Return Documents		Note		
	CONDITIONS OF CONTRACT				
D	CONDITIONS OF CONTRACT - Refer to Contract Document		Note		
	BILLS OF QUANTITIES				
	From Conditions of Bid Documents				
E	14.2 - The Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Bidder shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Employer. An item not listed in the priced Bill of Quantities shall be assumed to be not included in the Bid, and provided that the Bid is determined substantially responsive notwithstanding this omission, the average price of the item quoted by substantially responsive Bidders will be added to the Bid price and the equivalent total cost of the Bid so determined will be used for price comparison.		Note		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) BILLS OF QUANTITIES				
	Qualification				
A	This Bill of Quantities has been measured off drawings as noted at the back of this document. Tenderers' are to note that some Tender Drawings may contain revisions to those documents used in the preparation of this Bill of Quantities. Tenderer's are advised to price measured items as per these Bills. Any necessary adjustments between the Bills and Tender Documents will be negotiated with the successful Tenderer.		Note		
	Status				
B	This Bill of Quantities shall form part of the Contract only to the extent provided in the Contract.		Note		
	Generally				
C	This Bill of Quantities is in an abbreviated format and as such has not been measured in accordance with a standard method of measurement		Note		
D	The quantities have been measured in accordance with the Specification and from the Drawings listed in the Specification.		Note		
E	Unless otherwise stated, quantities have been measured net as fixed in position.		Note		
	Builder's Work				
F	Builder's work in connection with the Engineering Services Trades (Mechanical, Electrical, Lift, Fire, Communications and Security) has not been measured other than items of work detailed on the Architectural and Structural drawings. An item has been included within each of the Engineering Services Trades for Builder's Work in Connection which is deemed to include all builder's work not shown on Architectural and Structural drawings including trench excavation, backfilling, in-ground conduits, pump and plant bases, painting and the like.		Note		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) BILLS OF QUANTITIES				
	Trade Names				
A	Where trade names are stated in this Bill of Quantities an approved equivalent may be used if approved by the Superintendent except where otherwise noted in the Specification		Note		
	Provisional Quantities				
B	Where Provisional Quantities are given in the Bill of Quantities the work shall be remeasured in accordance with Specification and Conditions of Contract.		Note		
	PRICES GENERALLY				
C	Prices shall include for labour and all costs in connection therewith including labour in square, raking, splay and circular cutting, drilling, setting, fitting and fixing of materials and goods in position; materials and goods including materials required for lapping, jointing and the like, waste of materials, and all costs in connection therewith such as conveyance, delivery, unloading, storing, returning packings, handling, hoisting, lowering and delivery; forming of ends, angles, returned ends and the like and junctions between straight and raking and/or circular work; for custom duties, royalties, payroll tax, overtime, bonus and incentive payments, establishment costs, overhead and trading loan costs, Contractor's premises, administration and office personnel, processing of variations; profit, plant and equipment, protection of work against damage; and for any expense incurred in complying with the requirements of the Contract.		Note		
D	The Contractor shall price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be of Nil value. Unrealistic rates in the submitted priced Bill will be subject to adjustment.		Note		

To Collection $

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	ALTERNATIVES/ OPTIONS				
A	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
B	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
C	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
D	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
E	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	ABBREVIATIONS				
F	Where the following abbreviations have been used in this Bill of Quantities they shall have the meaning as shown below:		Note		
G	approx. - approximately				
H	AS - Australian Standard				
J	ASMM - Australian Standard Method of Measurement of Building Works, Fifth Edition				
K	BMT - base metal thickness				
L	CFC - Compressed Fibre Cement				
M	CHS - Circular Hollow Section				

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) ABBREVIATIONS				
A	cp - chromium plated				
B	dia. - diameter				
C	Det. - detail				
D	Dwg. - drawing				
E	EA - equal angle				
F	exc. - exceeding				
G	FRC - Fibre Reinforced Concrete				
H	fs - finished size				
J	FWG - floor waste gully				
K	galv. - galvanized				
L	gsm - grams per square metre				
M	HMR - Highly Moisture Resistant				
N	HW - hardwood				
P	ID - internal diameter				
Q	io - inspection opening				
R	KDHW - kiln dried hardwood				
S	Kg - kilogram				
T	kPa - kilopascal				
U	kN - kilonewton				
V	m - metre				
W	mm - millimetre				
X	m2 - square metre				
Y	m3 - cubic metre				
Z	max. - maximum				
AA	min. - minimum				
BB	MDF - Medium Density Fibreboard				

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) ABBREVIATIONS				
A	MGP - machine grade pine				
B	MPa - megapascal				
C	ms - mild steel				
D	nb - nominal bore				
E	No. - number				
F	OD - outside diameter				
G	PFC - Parallel Flange Channel				
H	pm - pressed metal				
J	ref. - reference				
K	RHS - Rectangular Hollow Section				
L	RL - Reduced Level				
M	RSA - Rolled Steel Angle				
N	RSC - Rolled Steel Channel				
P	Sect. - Section				
Q	s.s. - stainless steel				
R	scp - satin chromium plated				
S	SHS - Square Hollow Section				
T	swd - softwood				
U	t - tonne				
V	TFB - Tapered Flange Beam				
W	TFC - Tapered Flange Channel				
X	UA - Unequal angle				
Y	UB - Universal Beam				
Z	UC - Universal Column				
AA	um - micrometre				
BB	uPVC - unplasticized polyvinyl chloride				

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) ABBREVIATIONS				
A	vc - vitrified clay				
B	WB - Welded Beam				
C	WC - water closet				
D	QS - must have consultant				
	PRELIMINARIES & GENERAL REQUIREMENTS				
	Management				
E	Construction management including site management staff and support labour	1	Item		
F	Staff Transfers and Logistics (Honiara - Auki)				
G	.....-	1	Item		
H	.....-	1	Item		
J	.....-	1	Item		
	Site Facilities				
K	Site Shed / Office Shed	1	Item		
L	Site Ablution Shed	1	Item		
M	Site Kitchen Shed	1	Item		
N	Site First Aid Shed / Meeting Room	1	Item		
P	Off - Site Workers Accomodation / Camp facilities	1	Item		
Q					
R					
	Shipping and Logistics				
S	Shipping and logistics to HIR	1	Item		
T	Shipping and Logistics HIR - AUKI	1	Item		
U	Insurances / Consolidation / Agents / etc.	1	Item		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) PRELIMINARIES & GENERAL REQUIREMENTS				
	(Cont) Shipping and Logistics				
A	Staff / Workers Transfers and Logistics (Honiara - Auki)	1	Item		
B	.....-	1	Item		
C	.....-	1	Item		
	Site Conditions				
D	Temporary access roads and storage areas, traffic management and diversion (at the Constructors' discretion)	1	Item		
E	Temporary site fencing and securities	1	Item		
F	Commonly shared construction plant	1	Item		
G	Other temporary facilities and services	1	Item		
H	.....-	1	Item		
J	.....-	1	Item		
K	.....-	1	Item		
	Policies and Plans				
L	Quality monitoring, recording and inspections	1	Item		
M	Safety, health and environmental management	1	Item		
N	.....-	1	Item		
P	.....-	1	Item		
Q	.....-	1	Item		
	Securities and Insurance				
R	Insurances, bonds, guarantees and warranties	1	Item		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) PRELIMINARIES & GENERAL REQUIREMENTS				
	(Cont) Securities and Insurance				
A	.....-	1	Item		
B	.....-	1	Item		
C	.....-	1	Item		
	Handover and DLP				
D	Testing and commissioning	1	Item		
E	As built drawings and documentation	1	Item		
F	.....-	1	Item		
G	.....-	1	Item		
H	.....-	1	Item		
	Others.....to be scheduled by the Contractor				
J	.....-	1	Item		
K	.....-	1	Item		
L	.....-	1	Item		
M	.....-	1	Item		
N	.....-	1	Item		
P	.....-	1	Item		
Q	.....-	1	Item		
R	.....-	1	Item		

	Description	Qty	Unit	Rate	Amount
	PRELIMINARIES & GENERAL (Cont)				
	(Cont) Others.....to be scheduled by the Contractor				
A	.....-	1	Item		
B	.....-	1	Item		
C	.....-	1	Item		
D	.....-	1	Item		
E	.....-	1	Item		
F	.....-	1	Item		

Description	Qty	Unit	Rate	Amount
PRELIMINARIES & GENERAL (Cont)				
COLLECTION				
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PRELIMINARIES & GENERAL				
			Carried to Summary $	

	Description	Qty	Unit	Rate	Amount
	DEMOLITION WORKS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

To Collection $

	Description	Qty	Unit	Rate	Amount
	DEMOLITION WORKS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	MEASUREMENT AND PRICES				
G	All quantities in this section are PROVISIONAL and may be subject to remeasurement		Note		
H	Extent of demolition works to be confirmed on site		Note		

	Description	Qty	Unit	Rate	Amount
	DEMOLITION WORKS (Cont)				
	DEMOLITION WORKS				
	Site				
A	Demolish existing concrete slabs/pads/plints and associated footings/foundations and dispose of all debris off site.	1	Item		
B	Disconnect and demolish existing septic tanks, services, etc. and dispose off site.	1	Item		
C	Demolish existing wire fencing	1	Item		

To Collection $

Description	Qty	Unit	Rate	Amount
DEMOLITION WORKS (Cont)				
COLLECTION				
Page No. 3/1				
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DEMOLITION WORKS				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	CIVIL - GROUNDWORKS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	CIVIL - GROUNDWORKS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
G	DRAINAGE - Subsoil PVC AG drains behind retaining walls		Note		
H	HYDRAULICS, DRAINAGE, ELECTRICAL, MECHANCIAL, FIRE, SECURITY & COMMUNICATION SERVICES - service trenching and backfilling		Note		
J	ROADWORKS - base courses to roadworks, excavation associated with external paths, kerbs ,etc.		Note		

	Description	Qty	Unit	Rate	Amount
	CIVIL - GROUNDWORKS (Cont)				
	(Cont) WORK IN OTHER SECTIONS				
A	RETAINING WALLS - Detailed excavation for retaining walls		Note		
	MEASUREMENT AND PRICES				
B	All quantities in this section are PROVISIONAL and may be subject to remeasurement		Note		
C	Bulk earthworks quantities are approximate and taken from Engineer's drawings		Note		
D	Excavation quantities given are net		Note		
	GENERAL ITEMS				
E	Allow for testing as specified	1	Item		
F	Allow for inspections as specified	1	Item		
G	Allow for records of measurement as specified	1	Item		
H	Allow for surveys as specified	1	Item		
J	Allow for keeping excavations free from rain and percolating water by pumping or other means as specified	1	Item		
K	Allow for removing any obstructions such as boulders, roots, etc. encountered during excavations and for filling any resultant cavities to approval as specified	1	Item		
	GROUNDWORKS (ALL PROVISIONAL)				
L	All works measured in this section is PROVISIONAL		Note		
	Existing Services				
M	The Contractor shall investigate and satisfy himself as to the full extent and layout of existing underground or overground services and their potential impact on the works		Note		
	Locate, disconnect or make safe all existing services (as directed) over, under or on the site prior to commencement of groundworks.				
N	Upper Site	1	Item		

	Description	Qty	Unit	Rate	Amount
	CIVIL - GROUNDWORKS (Cont)				
	(Cont) Existing Services				
	(Cont) Locate, disconnect or make safe all existing services (as directed) over, under or on the site prior to commencement of groundworks.				
A	Lower Site	1	Item		
	Erosion & Sediment Control				
	Establish, maintain and control erosion and sediment control systems for the duration of earthworks				
B	Upper Site	1	Item		
C	Lower Site	1	Item		
	Site Clearance				
	Clear site of all existing trees, vegetation, other growth, debris or rubbish and dispose off site. (PROVISIONAL QTY)				
D	Upper Site	920	m2		
E	Lower Site	520	m2		
	Bulk Excavation				
F	Measurement and prices deemed to include for: levelling, grading, trimming, and similar to faces of filled areas other than to over site, floor slab and similar filling.		Note		
G	Measurement and prices of filling shall be deemed to include for executing in layers not exceeding 250mm, watering prior to and during rolling or tamping to ensure that filling is compacted at or near its minimum moisture content and rolling or tamping		Note		
H	All filling has been measured net as equal to the volume required to be filled and no allowance has been made for any decrease in bulk due to compaction.		Note		
J	Bulk Excavation; all quantities PROVISIONAL		Note		

To Collection $

	Description	Qty	Unit	Rate	Amount
	CIVIL - GROUNDWORKS (Cont)				
	(Cont) Bulk Excavation				
	Upper Site - Topsoil Strip				
A	Topsoil strip average 100mm depth and stockpile on site if suitable for reuse	500	m2		
	Upper Site - Bulk Excavation				
B	Cut/excavation to reduce levels; commencing from existing ground level (less topsoil)	760	m3		
C	Dispose of surplus excavated material off site	760	m3		
	Lower Site - Topsoil Strip				
D	Topsoil strip average 100mm depth and stockpile on site if suitable for reuse	100	m2		
	Lower Site - Bulk Excavation				
E	Cut/excavation to reduce levels; commencing from existing ground level (less topsoil)	57	m3		
F	Dispose of surplus excavated material off site	57	m3		
	Bulk Filling				
G	Bulk Filling; all quantities PROVISIONAL		Note		
	Upper Site				
	To subgrade; Place and compact in 200mm layers in accordance with Engineers specification.				
H	Fill obtained from excavated material; based on approval from the Superintendent/Engineer	50	m3		
J	Imported Fill; Provisional Quantity; only to be used based on Superintendent's Instructions	20	m3		

To Collection $

	Description	Qty	Unit	Rate	Amount
	CIVIL - GROUNDWORKS (Cont)				
	(Cont) Bulk Filling				
	Lower Site				
	To subgrade; Place and compact in 200mm layers in accordance with Engineers specification.				
A	Fill obtained from excavated material; based on approval from the Superintendent/Engineer	5	m3		
	Surface preparation				
	Surface preparation to building platforms (final trim, levelling, grading and proof rolling)				
B	Upper Site	700	m2		
	Surface preparation to road and pavement subgrade (final trim, levelling, grading and proof rolling)				
C	Upper Site	240	m2		
D	Lower Site	360	m2		

To Collection $

Description	Qty	Unit	Rate	Amount
CIVIL - GROUNDWORKS (Cont)				
COLLECTION				
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CIVIL - GROUNDWORKS				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	GROUNDWORKS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	Measurement and prices deemed to include for: levelling, grading, trimming, compacting, scabbling and similar to faces of excavations other than reduce level, floor slab and road pavement excavation, keeping sides plumb, backfilling, consolidating and disposing surplus spoil'.		Note		

	Description	Qty	Unit	Rate	Amount
	GROUNDWORKS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Measurement and prices for detailed excavation shall be deemed to include for wheeling, basketing or hoisting out excavated material prior to disposal, stepping bottom of trench and pit excavations to receive concrete, keeping free from debris and falling materials, stockpiling excavated material on site for re-use as filling, excavating in whatever material as found including rock, demolition and removal of obstructions encountered including redundant pipes, drains, manholes, foundations, and filling any resultant voids with compacted fill as required etc.		Note		
B	Prices for excavation and groundworks shall also include for staging works as necessary around existing structures and for all additional work and / or costs associated with working in close proximity to existing structures		Note		
C	Measurement and prices for reduce level excavation shall be deemed to include for maintaining sloping faces, batters and the like up to 60 degrees from the horizontal		Note		
D	It has been assumed that excavation to reduce levels and filling to make up levels will be executed prior to excavations for pits and trenches		Note		
E	The commencing levels of each type of excavation are described later herein. The Contractor shall allow in the prices, for any costs that may be incurred by employing an alternative method to that assumed and previously described.		Note		
F	Allowances for batters and backfill to pits have been measured or deemed to be included as per the drawings.		Note		
G	Backfilling as mentioned in the measurement and prices clause earlier in this section shall mean approved excavated material unless otherwise stated in the specification		Note		
H	No allowance has been made for increase in bulk after excavation		Note		

	Description	Qty	Unit	Rate	Amount
	GROUNDWORKS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
B	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	PROVISIONAL QUANTITIES				
C	The quantities of work labelled as PROVISIONAL in this Section of the Bill of quantities are to be remeasured during the progress of the works or on completion of the works. The Contractor will be deemed to have based his tender upon the quantities contained herein. He will be paid for the quantity of work contained in the Bill of Remeasured Quantities, subject only to subsequent variations authorised by the Superintendent and such quantity of work shall be valued at the unit price contained in the agreed priced copy of this Bill of Quantities		Note		
D	The Contractor will be deemed to have allowed in his prices for providing all records required for remeasuring the quantities, for providing the remeasured quantities and for all costs incurred in negotiating the value of the remeasured works		Note		
	ALTERNATIVES/ OPTIONS				
E	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
F	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		

	Description	Qty	Unit	Rate	Amount
	GROUNDWORKS (Cont)				
	(Cont) ALTERNATIVES/ OPTIONS				
A	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
B	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
C	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
D	CIVIL WORKS' - Bulk excavation to platform level and excavation relating to retaining walls on Civils drawings		Note		
E	HYDRAULICS, DRAINAGE, ELECTRICAL, MECHANCIAL, FIRE, SECURITY & COMMUNICATION SERVICES' - service trenching and backfilling		Note		
F	EXTERNAL WORKS AND LANDSCAPING' - base courses to roadworks, excavation associated with external paths, kerbs ,etc.		Note		
G	RETAINING WALLS - Detailed Excavation for retaining wall footings				
	GENERAL ITEMS				
H	Allow for testing as specified	1	Item		
J	Allow for inspections as specified	1	Item		
K	Allow for records of measurement as specified	1	Item		
L	Allow for submissions as specified	1	Item		
M	Allow for certification as specified	1	Item		
N	Allow for surveys as specified	1	Item		

	Description	Qty	Unit	Rate	Amount
	GROUNDWORKS (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for keeping excavations free from rain and percolating water by pumping or other means as specified	1	Item		
B	Allow for erosion and sediment control as specified	1	Item		
C	Allow for removing any obstructions such as boulders, roots, etc. encountered during excavations and for filling any resultant cavities to approval as specified	1	Item		
D	Allow for removing, supporting, protecting, disconnecting, sealing or diverting any existing services, drains etc. encountered during excavations, making good any damage done and properly filling any resultant cavities to approval as specified	1	Item		
E	Allow for testing membrane installation as specified	1	Item		
	DETAILED EXCAVATION IN MATERIAL AS FOUND				
F	Bulk excavation to platform/reduced level measured in CIVILS BOQ section		Note		
	Excavation commencing at platform level; retain material on site to be used as fill/backfill				
	Pad footing excavation from existing levels incl. for working space for formwork				
G	Detailed excavation for P1/C1 - 1800mm x 1800mm x 350mm deep concrete pad footing :[1 No]	20	m3		
H	Detailed excavation for P2/C1 - 1500mm x 1500mm x 350mm deep concrete pad footing :[2 No]	32	m3		
J	Detailed excavation for P4/C1 - 1200mm x 1200mm x 350mm deep concrete pad footing :[7 No]	87	m3		
K	Detailed excavation for P4/C2 - 1200mm x 1200mm x 350mm deep concrete pad footing :[8 No]	100	m3		

To Collection $

	Description	Qty	Unit	Rate	Amount
	GROUNDWORKS (Cont)				
	(Cont) DETAILED EXCAVATION IN MATERIAL AS FOUND				
	(Cont) Excavation commencing at platform level; retain material on site to be used as fill/backfill				
	(Cont) Pad footing excavation from existing levels incl. for working space for formwork				
A	Detailed excavation for P5/C2 - 1500mm x 1500mm x 350mm deep concrete pad footing :[1 No]	16	m3		
	Trench excavation; not exceeding 1000mm deep [Provisional Quantities]				
B	Strip footings (SF1)	29	m3		
C	Ground beams (IB1, 2 & 3)	34	m3		
D	Edge thickenings (TH1)	8	m3		
E	Spoon drains	6	m3		
	Extra over for detailed excavation in rock				
F	Not exceeding 1000m deep [Provisional Quantity]	10	m3		
	Backfilling to detailed excavation with previously excavated materials				
G	Based on Engineer's approval of suitable material		Note		
	Not exceeding 1m deep to				
H	Trenches [Provisional Quantity]	12	m3		
	FILLING AND HARDCORE				
J	Filling and grading to platform/reduced level and backfilling behind retaining walls measured in CIVILS BOQ section		Note		
	FILLING IN BEDS				
	Approved fill materials				
K	50mm thick sand or similar approved bedding under slabs [Provisional Quantity]	220	m2		

	Description	Qty	Unit	Rate	Amount
	GROUNDWORKS (Cont)				
	PLASTIC MEMBRANES				
	0.2 mm thick black polyethylene film; 150 mm laps including sealing around penetrations as specified				
A	Horizontal membrane; laid on approved compacted hardfilled or excavated surfaces including turnups up to 100 mm high against abutments	340	m2		

Description	Qty	Unit	Rate	Amount
GROUNDWORKS (Cont)				
COLLECTION				
Page No. 5/1				
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GROUNDWORKS				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	IN SITU CONCRETE				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	Measurement and prices deemed to include for: placing in position; making good after removal of formwork and casting in all required items; additional concrete required to conform to structural and excavated tolerances; pour joints and joints shown on the drawings that do not require formwork; scabbling		Note		

	Description	Qty	Unit	Rate	Amount
	IN SITU CONCRETE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Measurement and prices for concrete shall, unless otherwise stated, be deemed to include for mixing, transporting, hoisting, handling and compacting by mechanical vibration or any other method, bridging footings over new and existing service pipes and the like as required, junctions between concrete of different classes and/or types, packing around floor ducting, conduits, etc. as required, initial screeding to receive subsequent finishes, secondary pours for infill slabs, pouring strips and the like, roughening and cleaning including all associated work at pour joints as required, bonding fresh and hardened concrete, cutting away, coring or forming holes as required by all trades		Note		
B	Measurement and prices for reinforced concrete shall be deemed to include for packing around reinforcement.		Note		
C	Measurement and prices deemed to include for: temporary grounds, and for screeding off to a true surface ready to receive subsequent finishes' for intergral finishes.		Note		
D	Prices for concrete works described as 'placed on ground' or 'placed between excavated faces' shall also include for preparation works, all loss or wastage of concrete due to any irregularities in the excavated face and for all additional concrete required as a result of maintaining faces of excavation and for any formwork which may be required where excavated faces are not stable.		Note		
E	All concrete is placed into formwork unless otherwise stated.		Note		
F	The prices for slabs described as having an average ('av') thickness and/or graded to falls and/or cross falls will be deemed to include for screeding to the required minimum and maximum thicknesses and for providing any necessary temporary screeds, rules, etc.		Note		

	Description	Qty	Unit	Rate	Amount
	IN SITU CONCRETE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	The quantities given for protecting and curing concrete are approximate only and have been rounded up to the nearest ten square metres		Note		
B	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
C	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
D	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
E	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
F	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
G	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		

To Collection $

	Description	Qty	Unit	Rate	Amount
	IN SITU CONCRETE (Cont)				
	DIMENSIONS				
A	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
B	MASONRY' - Concrete filling to block walls		Note		
C	STRUCTURAL STEEL' - steel columns cast in		Note		
D	METALWORK' - concrete footings to bollards		Note		
E	HYDRAULICS', DRAINAGE AND FIRE - concrete surrounds to downpipe outlets/sumps		Note		
F	CIVIL DRAINAGE' - concrete associated with pits, encasing work, thrust blocks and the like		Note		
G	CIVILS BOQ' - concrete relating to retaining walls, roadworks and the like and the like		Note		
H	CIVILS & EXTERNAL WORKS BOQ' - all concrete work associated with external paths, retaining walls, roadworks, ramps etc.		Note		
	GENERAL ITEMS				
J	Allow for coordination of services	1	Item		
K	Allow for records as specified	1	Item		
L	Allow for quality assurance as specified	1	Item		
M	Allow for certification as specified	1	Item		
N	Allow for inspections as specified	1	Item		
P	Allow for testing as specified	1	Item		
Q	Allow for submissions as specified	1	Item		
R	Allow for all costs of scabbling concrete as required	1	Item		
S	Allow for all costs of cleaning rough surfaces	1	Item		

	Description	Qty	Unit	Rate	Amount
	IN SITU CONCRETE (Cont)				
	REINFORCED CONCRETE; GRADE N32				
	Footings/Foundations; poured against excavated surfaces				
A	P1/C1 - 1800mm x 1800mm x 350mm deep concrete pad footing :[1 No]	1.2	m3		
B	P2/C1 - 1500mm x 1500mm x 350mm deep concrete pad footing :[2 No]	1.8	m3		
C	P3/C1 - 1200mm x 1200mm x 350mm deep concrete pad footing :[2 No]	1.2	m3		
D	P4/C1 - 1200mm x 1200mm x 350mm deep concrete pad footing :[7 No]	3.6	m3		
E	P4/C2 - 1200mm x 1200mm x 350mm deep concrete pad footing :[6 No]	3.3	m3		
F	P5/C2 - 1500mm x 1500mm x 350mm deep concrete pad footing :[1 No]	0.9	m3		
	Slabs; surfaces graded to falls and/or cross falls where indicated/required				
G	SL1 - Ground floor slab; 125mm thick; including edge thickenings :[302 m2]	45	m3		
H	SL2 - Ground floor slab; 150mm thick; including edge thickenings :[20 m2]	3	m3		
	External Path Slabs; surfaces graded to falls and/or cross falls where indicated/required				
J	External path slabs. 125mm thick :[70 m2]	9	m3		
K	External path slabs. 100mm thick :[56 m2]	6	m3		
L	Carpark Concrete slabs / Services upper carpark . 125mm thick :[19 m2]	3	m3		
	Stairs				
M	External Steps (Grid A)	6	m3		

	Description	Qty	Unit	Rate	Amount
	IN SITU CONCRETE (Cont)				
	REINFORCED CONCRETE; GRADE N32				
	Suspended Bondek Slabs; surfaces graded to falls and/or cross falls where indicated/required				
	Level 1				
A	Bondek permanent formwork measured elsewhere		Note		
B	SL1 - 170mm thick Bondek slab incl. all necessary propping and bracing as required :[226 m2]	34	m3		
C	SL2 - 150mm thick Bondek slab incl. all necessary propping and bracing as required :[26 m2]	4	m3		
D	Allowance for closing ends in prep for pour etc.	1	Item		
E	Allowance for control joints for slab pour	1	Item		
	CONCRETE COLUMN ENCASEMENTS				
	Concrete Encasement ot Columns				
	Grout concrete encasement as specified to columns incl. vibration of infill, etc.				
	Under Ground Slab				
F	C3 - 420mm x 300mm concrete encasement to 250 UB 37.3 column :[22 m]	3	m3		
G	C4 - 350mm x 350mm concrete encasement to 100 x 100 x 9.0 SHS column :[13 m]	1.5	m3		
	Ground to First Floor				
H	C3 - 420mm x 300mm concrete encasement to 250 UB 37.3 column :[12/3.1]	4.8	m3		
J	C4 - 350mm x 350mm concrete encasement to 100 x 100 x 9.0 SHS column :[7/3.1]	2.7	m3		
	Above Level 1				
K	C3 - 420mm x 300mm concrete encasement to 250 UB 37.3 column :[4/2.7 3/2.9 5/3.7]	4.8	m3		
L	C4 - 350mm x 350mm concrete encasement to 100 x 100 x 9.0 SHS column :[7/3.2]	2.7	m3		

To Collection $

	Description	Qty	Unit	Rate	Amount
	IN SITU CONCRETE (Cont)				
	INTEGRAL FINISHES				
	Steel trowelled or machine float finish to tolerances as specified on concrete				
	Surface of slabs				
A	Ground level	322	m2		
B	Level 1	251	m2		
C	Spoon drains	18	m		
	Broom finish				
D	External Paths	126	m2		
E	Traffic Island	19	m2		
	JOINTS				
	Dowel joints; as per Engineer's details				
F	Dowel joint between townhouse slab and concrete pavement (refer civil details)	1	Item		
	Saw cut joints; as per Engineer's details				
G	Ground level; (SCJ)	1	Item		
				To Collection $	

Description	Qty	Unit	Rate	Amount
IN SITU CONCRETE (Cont)				
COLLECTION				
Page No. 6/1				
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IN SITU CONCRETE				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	FORMWORK				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	Measurement and prices deemed to include for: all necessary boarding, supports, erecting, framing, temporary cambering, cutting, perforations for reinforcing bars, bolts, straps, ties, hangers, pipes and similar, angles, removal, cleaning, wetting and treatment with separating agent before placing concrete, chamfered edges and splayed internal angles up to 50 mm wide on face, forming drip grooves, filling tie bolt holes, strutting left after removal of formwork'.		Note		

	Description	Qty	Unit	Rate	Amount
	FORMWORK (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Measurement and prices for Formwork shall be deemed to include for all raking and circular cutting, cutting around steel sections and temporary openings to permit inspections before concrete is placed.		Note		
B	All slab soffit formwork is horizontal unless otherwise described, and all sloping slab soffits do not exceed 15 degrees from the horizontal unless otherwise described.		Note		
C	Formwork to chamfered edges and splayed internal angles and drip grooves up to 50mm wide on face has been included in `Measurement and Prices'.		Note		
D	All formwork reference types stated herein refer to AS 3610 and the specification.		Note		
E	In addition, prices for formwork systems shall include for all narrow widths caused by junctions with attached formed surfaces; all necessary raking and circular cutting of forms including junctions with other structural elements.		Note		
F	Prices for formwork systems shall include for all designed form board setout of sheets as required.		Note		
G	Formwork has been measured to the net contact surface unless otherwise stated and no allowance has been made for the overlap of formwork at angles.		Note		
H	Prices for permanent metal formwork shall include for all laps, temporary supports, braces, perforations for pipes, side lap jointing between panels, applied treatments, and cleaning down before placing concrete		Note		
J	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	FORMWORK (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
G	HYDRAULICS, DRAINAGE AND FIRE - formwork to concrete surrounds to downpipe outlets/sumps, formwork to pits.		Note		
H	CIVIL DRAINAGE - formwork to pits and manholes (if constructed insitu)		Note		
J	CIVILS BOQ, EXTERNAL WORKS & LANDSCAPING - all formwork associated with external paths, retaining walls, roadworks etc.		Note		

	Description	Qty	Unit	Rate	Amount
	FORMWORK (Cont)				
	GENERAL ITEMS				
A	Allow for inspections as specified		Item		
B	Allow for prototypes and samples as specified		Item		
C	Allow for submissions as specified		Item		
D	Allow for tests as specified		Item		
E	Allow for shop drawings as specified		Item		
F	Allow for design and construction to approval as specified		Item		
	FORMWORK CLASS 2				
	Stairs and Landings				
	Soffits of stair flights				
G	Stair 1 - Double 90 Degree Turn		m2		
	Soffits of stair landings				
H	Stair 1 - Double 90 Degree Turn		m2		
	Faces of stair risers; not exceeding 200mm high				
J	Main Entry at GL (Grid F,1)		m		
K	Side Entry at GL (Grid F 3&4)		m		
L	Stair 1 - Double 90 Degree Turn		m		
	Face of stair stringers				
M	Side Entry at GL (Grid F 3&4)		m2		
N	Stair 1 - Double 90 Degree Turn		m		
	Concrete Columns				
P	Form face of concrete columns - 800 x 400 (CC1) at 4200 high (Ground Floor)		m2		

	Description	Qty	Unit	Rate	Amount
	FORMWORK (Cont)				
	FORMWORK CLASS 3 - CONCRETE COLUMN ENCASEMENTS				
	Concrete Encasement ot Columns				
	Formwork - Class 3 incl. for all bracing and supports etc. to form encasement generally 250 - 500mm wide				
	Under Ground Slab				
A	C3 - 300mm face of concrete encasement to 250 UB 37.3 column :[12 No]	43	m		
B	C3 - 420mm face of concrete encasement to 250 UB 37.3 column :[12 No]	43	m		
C	C4 - 350mm face of concrete encasement to 100 x 100 x 9.0 SHS column :[7 No]	51	m		
	Ground to First Floor				
D	C3 - 300mm face of concrete encasement to 250 UB 37.3 column :[12 No]	74	m		
E	C3 - 420mm face of concrete encasement to 250 UB 37.3 column :[12 No]	74	m		
F	C4 - 350mm face of concrete encasement to 100 x 100 x 9.0 SHS column :[7 No]	85	m		
	Above Level 1				
G	C3 - 300mm face of concrete encasement to 250 UB 37.3 column :[12 No]	75	m		
H	C3 - 420mm face of concrete encasement to 250 UB 37.3 column :[12 No]	75	m		
J	C4 - 350mm face of concrete encasement to 100 x 100 x 9.0 SHS column :[7 No]	87	m		
K					
L					
	FORMWORK CLASS 3				
	Patio Stair				
M	Form face of stair risers; not exceeding 200mm high (external patio steps)		m		

	Description	Qty	Unit	Rate	Amount
	FORMWORK (Cont)				
	(Cont) FORMWORK CLASS 3				
	(Cont) Patio Stair				
A	Form face of stair stringers (external patio steps)		m		
	FORMWORK CLASS 5				
	Pad Footing				
	Form sides of pad footings 250mm - 500mm high				
B	Form face of P1/C1 - 1800mm x 1800mm x 350mm deep concrete pad footing :[1 No]	8	m		
C	Form face of P2/C1 - 1500mm x 1500mm x 350mm deep concrete pad footing :[2 No]	12	m		
D	Form face of P3/C1 - 1200mm x 1200mm x 350mm deep concrete pad footing :[2 No]	10	m		
E	Form face of P4/C1 - 1200mm x 1200mm x 350mm deep concrete pad footing :[7 No]	34	m		
F	Form face of P4/C2 - 1200mm x 1200mm x 350mm deep concrete pad footing :[6 No]	29	m		
G	Form face of P5/C2 - 1500mm x 1500mm x 350mm deep concrete pad footing :[1 No]	6	m		
	Slab on Ground				
	Form slab edges; not exceeding 300mm high				
H	Ground Level	92	m		
	Form setdowns or steps in slabs; not exceeding 100mm high				
J	Ground Level	22	m		
	Suspended Slabs				
	Form slab edges; not exceeding 300mm high				
K	Level 1	78	m		
	Form setdowns or steps in slabs; not exceeding 100mm high				
L	Level 1	14	m		

	Description	Qty	Unit	Rate	Amount
	FORMWORK (Cont)				
	(Cont) FORMWORK CLASS 5				
	(Cont) Suspended Slabs				
	Form soffits of Stairs horizontal, including propping/strutting to a max of 3m high				
A	Level 1 suspended slab up to 200mm thick	4	m2		
B	Level 1 suspended slab exceeding 200mm thick	12	m2		
	BONDEK				
	1.0 BMT Bondek permanent forwork installed and braced in accourdance with manufactureres recommendations				
	Upper Floor				
C	Bondek slab permanent formowork incl. all necessary proppong and bracing as required to suit 150mm thick slab	26	m2		
D	Bondek slab permanent formowork incl. all necessary proppong and bracing as required to suit 170mm thick slab	226	m2		

Description	Qty	Unit	Rate	Amount
FORMWORK (Cont)				
COLLECTION				
Page No. 7/1				
Page No. 7/2				
Page No. 7/3				
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Page No. 7/5				
Page No. 7/6				
Page No. 7/7				
FORMWORK				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	REINFORCEMENT				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	Measurement and prices deemed to include for: cleaning, fabrication, placing, the provision of all necessary temporary fixings and supports including tie wire and chair supports, rolling margins and laps other than laps shown on drawings'.		Note		
G	Measurement and prices for reinforcement shall be deemed to include for tying line to bundled bars.		Note		

	Description	Qty	Unit	Rate	Amount
	REINFORCEMENT (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Measurement and prices for fabric reinforcement shall be deemed to include for placing laps for the purpose of joining or splicing sheets of the same type of fabric reinforcement together.		Note		
B	Allowance for bends, hooks, cranks and the like on bar reinforcement have been measured in accordance with the minimum requirements as set out in A.S. 3600. The Contractor shall be deemed to have allowed here or in the prices for any additional allowances required to suit particular fabrication requirements.		Note		
C	Bar reinforcement which extends over two or more stages in a single length has been included in the measurement of the lower stage.		Note		
D	Prices shall include for all necessary site cutting, site bending, site welding, and similar items where detailed on the drawings. The Contractor shall be deemed to have allowed here or in the prices for any additional site work required to suit particular construction requirements.		Note		
E	The mass of reinforcement stated herein is net theoretical mass with no allowance for rolling margin. Rates are to include for rolling margin		Note		
F	Prices shall include for site cutting, site bending, site welding etc. in accordance with and to suit the Contractor's particular construction programme and site methodology.		Note		
G	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
H	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		

	Description	Qty	Unit	Rate	Amount
	REINFORCEMENT (Cont)				
	ALTERNATIVES/ OPTIONS				
A	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
B	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
C	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
D	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
E	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
F	MASONRY' - reinforcement to masonry walls and piers		Note		
G	EXTERNAL WORKS & LANDSCAPING' - reinforcement to all concrete work associated with external paths, retaining walls, kerbs, etc.		Note		
	GENERAL ITEMS				
H	Allow for all necessary test certificates and test as specified		Item		
J	Allow for inspections as specified		Item		
K	Allow for the preparation of all bending schedules as specified		Item		

	Description	Qty	Unit	Rate	Amount
	REINFORCEMENT (Cont)				
	GRADE 500N DEFORMED BAR REINFORCEMENT				
	Quantities of bar reinforcement include allowance for laps only as shown on the drawings.				
	Substructure & Ground Level				
A	HD20 bar to P1/C1 - 1800mm x 1800mm x 350mm deep concrete pad footing	0.3	tonne		
B	HD20 bar to P2/C1 - 1500mm x 1500mm x 350mm deep concrete pad footing	0.43	tonne		
C	HD20 bar to P3/C1 - 1200mm x 1200mm x 350mm deep concrete pad footing	0.3	tonne		
D	HD20 bar to P4/C1 - 1200mm x 1200mm x 350mm deep concrete pad footing	1.03	tonne		
E	HD20 bar to P4/C2 - 1200mm x 1200mm x 350mm deep concrete pad footing	0.88	tonne		
F	HD20 bar to P5/C2 - 1500mm x 1500mm x 350mm deep concrete pad footing	0.22	tonne		
G	12mm Bars in footings	1.22	tonne		
H	16mm Bars in footings	1.88	tonne		
	Level 1				
J	12mm Bars in slabs	0.8	tonne		
K	16mm Bars in slabs	0.08	tonne		
	FABRIC MESH REINFORCEMENT				
	Quantities of fabric have been measured nett with no allowance for laps				
	Ground Level/Substructure				
L	3-L11TM Trench Mesh in footings	46	m		
M	5-L11TM Trench Mesh in footings	18	m		
N	SL82 Mesh in Ground Floor Slab, footings and Steps	28	m²		

	Description	Qty	Unit	Rate	Amount
	REINFORCEMENT (Cont)				
	(Cont) FABRIC MESH REINFORCEMENT				
	Level 1				
A	SL92-4 Mesh in slabs	188	m2		

Description	Qty	Unit	Rate	Amount
REINFORCEMENT (Cont)				
COLLECTION				
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Page No. 8/3				
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Page No. 8/5				
REINFORCEMENT				

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	Description	Qty	Unit	Rate	Amount
	TANKING & WATERPROOF MEMBRANES				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	Measurement and prices for waterproofing systems shall be deemed to include for all necessary preparation work and for making good any damaged surfaces		Note		
G	Measurement and prices for waterproofing systems shall be deemed to include for turning membranes into reglets or similar and any sealing required at all junctions and ends as required to provided fully waterproof system		Note		

	Description	Qty	Unit	Rate	Amount
	TANKING & WATERPROOF MEMBRANES (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Measurement and prices for waterproofing systems shall be deemed to include for dressing over fillets, internal angles and external angles, dressing around and sealing to all penetrations.		Note		
B	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
C	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
D	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
E	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
F	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
G	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		

	Description	Qty	Unit	Rate	Amount
	TANKING & WATERPROOF MEMBRANES (Cont)				
	DIMENSIONS				
A	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	GENERAL ITEMS				
B	Allow for testing as specified		Item		
C	Allow for inspections as specified		Item		
D	Allow for submissions as specified		Item		
E	Allow for warranties as specified		Item		
	TANKING & WATERPROOF MEMBRANES				
	Approved waterproofing membrane to retaining walls				
F	Ret Walls	168	m2		
	Approved waterproofing membrane to wet area floors				
G	To internal wet area; on concrete substrate (Laundry, Powder, Ensuite, Bath, WC)	46	m2		
H	200mm upturn at perimeter	34	m		
J	To external wet areas; balconies	18	m2		
K	Upturn at wall or threshold junction	8	m		
	Approved waterproofing membrane to wet area walls				
L	To wet area walls (bath and ensuite)	128	m2		

Description	Qty	Unit	Rate	Amount
TANKING & WATERPROOF MEMBRANES (Cont)				
COLLECTION				
Page No. 9/1				
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Page No. 9/3				
TANKING & WATERPROOF MEMBRANES				

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	Description	Qty	Unit	Rate	Amount
	MASONRY				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		

	Description	Qty	Unit	Rate	Amount
	MASONRY (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Measurement and prices deemed to include for: leaving loose bricks or blocks for and cleaning out cavities, leaving weep holes, forming cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, plain and plain return blocks and similar blocks, all necessary hand or machine cutting, cutting to form bond, cutting or forming chases for edges of floor slabs, concrete or steel beams and the like, cutting or leaving holes and openings at recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashings, knocking off angles in preparation for plastering, bedding frames or plates, building in joists, bearers, or similar, temporary supports to openings lintels and the like, templates, and for all necessary making good'.		Note		
B	Measurement and prices for masonry deemed to include for forming and plumbing ends, angles, mixing and sorting masonry units, plumbing angles, wall joint reinforcement including bonding or tieing walls at intersections unless specifically detailed otherwise (NOTE - bar reinforcement measured separately), wedging and pinning up, cutting and levelling top course of load bearing walls to suit slabs, cutting and fitting top course of non load bearing walls to soffit of concrete slabs/beams,cutting and fitting to concrete or steel beams, columns, etc., building in of adjacent elements from other trades including steelwork, metalwork, etc., forming penetrations, building in or leaving openings in walls around all services, bedding and pointing plates, filling voids at back of steel door frames with mortar as work proceeds, joints not shown on the Drawings, and cleaning down and protection all masonry surfaces on completion including making good putlog holes and the like after other trades.		Note		

	Description	Qty	Unit	Rate	Amount
	MASONRY (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for masonry shall also include for all necessary propping and temporary bracing, all cleats, angles and sundry fixings as required for compliance with AS 1640, as specified, detailed on the Drawings and as deemed required by the Contractor;		Note		
B	In addition to the prices clause for masonry generally, prices for blockwork will be deemed to include for:- standard, fractional, solid and special blocks as required, threading blocks over reinforcing rods, bands of blocks as of a course height different to that of the general course height to make up heights of walls, solid blocks or core filling of hollow blocks to receive fixings for fittings, sanitary fixtures and the like and where chases are required		Note		
C	In addition to the prices clause for masonry generally, prices for blockwork shall be deemed to including for sealing penetrations in masonry walls, at junctions and penetrations as required to create and air tight seal.		Note		
D	In addition to the prices clause for masonry generally, prices for blockwork shall be deemed to include for grouting up at back of metal door frames with solid mortar where built into masonry walls.		Note		
E	In addition to the foregoing prices clauses, prices for masonry will be deemed to include for all ties and anchors at junctions, intersections and corners or masonry		Note		
F	In addition to the prices clause for masonry generally, prices for blockwork will be deemed to include for weephole insect barriers where required.		Note		
G	Prices for curved work will be deemed to including for all setting out, cutting and templates		Note		

	Description	Qty	Unit	Rate	Amount
	MASONRY (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
B	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
C	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
D	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
E	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
F	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
G	All dimensions given in item descriptions are in mm unless otherwise described.		Note		

	Description	Qty	Unit	Rate	Amount
	MASONRY (Cont)				
	GENERAL ITEMS				
A	Allow for inspections as specified		Item		
B	Allow for tests as specified		Item		
C	Allow for samples and sample panels as specified		Item		
	HOLLOW CONCRETE BLOCKWORK WALLS				
	200 series' smooth face natural grey blocks in stretcher bond with cement/lime/sand mortar (1:1:6) including closing cavities at ends of hollow walls and jambs of openings, pointing, joints and cleaning down as specified				
D	Substructure (below Ground Level)	88	m2		
E	Ground Level; generally	144	m2		
F	Level 1; generally	128	m2		
	Extra over for 200mm masonry lintel blocks over openings				
G	Ground Level; 8 no. openings	16	m		
H	Level 1; 14 no openings	22	m		
	Extra over for raking blockwork				
J	Level 1	15	m		
	VIBRATED REINFORCED CONCRETE FILLING (20 MPa)				
K	The Preamble Notes and General Items contained within the 'Concrete' trade apply equally to this section as though herein written in full.		Note		
L	Allow for complying with the Preamble Notes and General Items of the 'Concrete' trade insofar as they relate to corefilling of masonry		Item		
	20 MPa core filling to the following				
M	Substructure	88	m2		
N	Ground Level	144	m2		

	Description	Qty	Unit	Rate	Amount
	MASONRY (Cont)				
	(Cont) VIBRATED REINFORCED CONCRETE FILLING (20 MPa)				
	(Cont) 20 MPa core filling to the following				
A	Level 1	128	m2		
	REINFORCEMENT TO BLOCKWORK				
B	The Preamble Notes and General Items contained in the 'Reinforcement' trade apply equally to this section as though herein written in full.		Note		
C	In addition to the general prices clause for reinforcement, prices for reinforcement to concrete filling of masonry shall be deemed to including for any bending schedules required.		Note		
D	Allow for complying with the Preamble Notes and General Items of 'Reinforcement' insofar as they relate to reinforcement to concrete filling of masonry		Item		
	Grade 500N Deformed Bar Reinforcement				
E	Quantities of bar reinforcement include allowance for laps only as shown on the drawings.		Note		
	To walls, balustrade walls, and retaining walls				
F	12mm bars	2.56	tonne		
G	16mm bars	3.22	tonne		
	To lintel beams				
H	12mm bars	0.24	tonne		
J	12mm stirrups	0.12	tonne		
K	16mm bars	0.44	tonne		
	To bond beams				
L	12mm bars	0.23	tonne		
M	16mm bars	0.16	tonne		

Description	Qty	Unit	Rate	Amount
MASONRY (Cont)				
COLLECTION				
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Page No. 10/5				
Page No. 10/6				
MASONRY				

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	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	Measurement and prices for framed structures also deemed to include for cutting to dead lengths, notching and machining ends and bearings.		Note		
G	Measurement and prices deemed to include for: Notching, bolting, countersinking, welding, grinding, marking and labelling, isolating dissimilar materials, and all incidental labours.		Note		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	In addition prices for steelwork and associated works shall include for all on necessary snipping, cropping, and all other cutting of members to suit the installation including making good surface finishes as required		Note		
B	Prices shall be deemed to include for all additional truss field splices and site welding of components not specifically detailed and included herein but required by the Contractor to complete the installation to approval		Note		
C	The mass of all steelwork stated herein is the net theoretical mass excluding rolling margin and the mass of welding materials for which the Contractor must include in the prices.		Note		
D	The Contractor shall allow for any additional splicing or fabrication necessary to facilitate transportation or erection.		Note		
E	The prices included in rates for welds shall include for all necessary preparation for welding, including grinding, bevelling, etc. for 'run on' and 'run off' plates or chipping or cutting back, and welding ends and for the weight of metal in backing plates.		Note		
F	All members out of half or other parts of steel sections have been weighted at half the weight of the section from which they have been cut when equal to or less than half the section, and at the full weight of the section from which they have been cut when greater than half the section.		Note		
G	The method of dimensioning or describing items does not imply any particular or necessary fabrication or installation procedure, and the Contractor shall ensure that the prices include for all requirements in this regard.		Note		
H	Allowances for attached and loose connections are also to include for lightning protection tags welded to steel members as indicated on Electrical Services drawings		Note		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	All sizes given are approximate only and shall be confirmed on site prior to manufacture.		Note		
B	Black bolts' referred to are defined herein for the purpose of measurement to include grade 8.8/S bolts with galvanised or other finishes as specified.		Note		
C	Prices for masonry anchors and/or chemical anchors shall be deemed to include for all necessary anchoring devices together with bolt, stud, nuts, etc. any type of washer which may be required and for drilling the structure as required.		Note		
D	Prices for bolts shall be deemed to include for nuts and for any type of washer which may be required. Unless described otherwise bolts are in site connections.		Note		
E	Bolts classified as hold down type (H.D.) have been given by girth and prices are to include for all necessary fabrication to suit the required shape for casting in		Note		
F	Prices to include abrasive cleaning and one coat of 0.75mm zinc phosphate coating as specified		Note		
G	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
H	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	ALTERNATIVES/ OPTIONS				
A	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
B	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
C	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
D	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
E	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
F	METALWORK' - steelwork to sunscreens, stairs and ladders, roof walkways etc.		Note		
G	PAINTING - painting of structural steelwork apart from priming, priming included in herein STRUCTURAL STEEL		Note		
	GENERAL ITEMS				
H	Allow for shop drawings as specified	1	Item		
J	Allow for samples as required	1	Item		
K	Allow for testing as required	1	Item		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for the provision of all necessary temporary bracing and similar items as required	1	Item		
B	Allow for inspection of welds including use of special techniques as required	1	Item		
C	Allow for special trial shop assembly as required	1	Item		
	COLUMNS				
	UB columns (Concrete encasement measured separately)				
D	C1 - 250 UB 37.3 stub column to underside of ground slab :[4/7.9 3/8.1 5/8.8]	3.71	t		
	SHS columns (Concrete encasement measured separately)				
E	C2 - 100 x 100 x 9.0 SHS stub column to underside of ground slab :[5/3.8 7/8.6]	1.87	t		
	Hold down assembly				
	Hold down assembly incl. welded plate, stirrups, etc for encasement into footing				
F	Hold down assembly to footing for 250 UB 37.3 steel column	12	No.		
G	Hold down assembly to footing for 100 x 100 x 9.0 SHS steel column	7	No.		
H	Hold down assembly to footing for 100 x 100 x 9.0 SHS steel column (Lower roof)	5	No.		
	Concrete Encasement ot Columns				
J	Concrete encasement (Formwork and Concrete) - Measured elsewhere		Note		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	FLOOR FRAMING				
	Floor Beam				
	UB floor beam				
A	B1 - 410 UB 59.7 floor beam to underside of level 1 slab :[1/2.5 1/3.9 1/4.1 4/4.2 3/5.2 4/5.3 3/5.6 3/5.8 3/6.9]	7.11	t		
B	B2 - 360 UB 37.3 floor beam to underside of level 1 slab :[1/2.5 1/2.7 1/3.9 1/4.1 2/4.2 1/5.8]	1.03	t		
	Connections incl. site weld or attached and bolted plate connections incl. all bolts etc.				
	Beam to Column				
C	Welded / bolted connection from B1 to C1	29	No.		
D	Welded / bolted connection from B1 to C2	14	No.		
E	Welded / bolted connection from B2 to C1	3	No.		
F	Welded / bolted connection from B2 to C2	7	No.		
	Beam to Beam				
G	Welded / bolted connection from B1 to B1	3	No.		
H	Welded / bolted connection from B2 to B2	1	No.		
J	Welded / bolted connection from B2 to B1	3	No.		
	Allowance				
K	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		
	Shop Prime / Surface Finish				
L	Allowance for shop prime and surface finish as required to floor beams :[147 m]	229	m2		
	LOWER ROOF FRAMING				
	Rafters				
	UB Rafters				
M	R1 - 360 UB 37.3 rafter to roof :[2/7.4]	0.56	t		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	(Cont) Rafters				
	(Cont) UB Rafters				
A	R3 - 150 UB 14 steel rafter :[2/0.7 2/1.4]	0.06	t		
	RHS Rafters				
B	R4 - 250 x 150 x 6.0 RHS rafter to roof :[5/1.5]	0.27	t		
	Connections incl. site weld or attached and bolted plate connections incl. all bolts etc.				
	Rafter to Column				
C	Welded / bolted connection from R4 to C2	5	No.		
D	Welded / bolted connection from R4 to C1	5	No.		
E	Welded / bolted connection from R1 to blockwork bond beam	2	No.		
F	Welded 8mm ms plate (purlin cleat) welded to rafter for purlin	68	No.		
	Allowance				
G	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		
	Shop Prime / Surface Finish				
H	Allowance for shop prime and surface finish as required to rafters	42	m2		
	Wall Plates				
	PFC Wall Plates				
J	WP - 150 PFC steel wall plate :[1/6.7]	0.12	t		
	Connections incl. site weld or attached and bolted plate connections incl. all bolts etc.				
	Wall Plate to block wall				
K	Bolted chemset connection to block wall with M16 8.8/S	6	No.		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	(Cont) Wall Plates				
	(Cont) Wall Plate to block wall				
	Allowance				
A	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		
	Shop Prime / Surface Finish				
B	Allowance for shop prime and surface finish as required to rafters	5	m2		
	Braces				
	EA Roof Braces				
C	CB1 - 75 x 75 x 9.0 equal angle roof brace :[2/4.6 2/6.0 2/7.0 2/8.1]	0.53	t		
	Connections incl. site weld or attached and bolted plate connections incl. all bolts etc.				
	Bracing to Rafers				
D	Welded / bolted connection from CB1 to R1	6	No.		
E	Welded / bolted connection from CB1 to WB1	2	No.		
F	Welded / bolted connection from CB1 to R4	8	No.		
	Allowance				
G	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		
	Shop Prime / Surface Finish				
H	Allowance for shop prime and surface finish as required to lateral ties :[82 m]	27	m2		
	Purlins				
	Proprietary Purlins				
J	Prices for proprietary purlins, girts, bridgings and tie rods shall be deemed to include for all drilling, laps, splices and fixings, bolts, nuts, and washers and securing members to the supporting structure		Note		
K	RP01 - Z15075 galvanized purlins (measured nett - no allowance for laps)	100	m		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	(Cont) Purlins				
	(Cont) Proprietary Purlins				
A	RP02 - C200 galvanized purlins (measured nett - no allowance for laps)	85	m		
	Bolts in connection				
B	M12 purlin bolts (Purlin to purlin cleat)	140	No.		
	Allowance				
C	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		
	ROOF FRAMING				
	Rafters				
	UB Rafters				
D	R1 - 360 UB 37.3 rafter to roof :[1/2.3 1/2.8 2/3.7 7/5.8]	1.99	t		
E	R1 - 360 UB 37.3 rafter (cranked to roof (Grid B1 - D) :[2/4.2]	0.32	t		
	Connections incl. site weld or attached and bolted plate connections incl. all bolts etc.				
	Rafter to Column				
F	Welded / bolted connection from R1 to C1	13	No.		
G	Welded / bolted connection from R1 to C2	13	No.		
H	Welded 8mm ms plate (purlin cleat) welded to rafter for purlin	104	No.		
	Allowance				
J	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		
	Shop Prime / Surface Finish				
K	Allowance for shop prime and surface finish as required to rafters :[62 m]	87	m2		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	Outriggers				
	PFC Outrigger Rafters				
A	OH1 - 150 PFC outrigger rafter :[6/1.4]	0.15	t		
B	OH2 - 125 PFC outrigger rafter :[2/1.2]	0.04	t		
	Outrigger to Column				
C	Welded / bolted connection from OH1 to C1	5	No.		
D	Welded / bolted connection from OH1 to C2	1	No.		
E	Welded / bolted connection from OH2 to C1	2	No.		
F	Welded 8mm ms plate (purlin cleat) welded to outrigger for purlin	22	No.		
	Allowance				
G	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		
	Shop Prime / Surface Finish				
H	Allowance for shop prime and surface finish as required to rafters	7	m2		
	Ties				
	SHS Lateral Tie				
J	LT1 - 100 x 100 x 9.0 SHS lateral tie :[6/4.2 6/5.8 3/6.9]	1.9	t		
	Connections incl. site weld or attached and bolted plate connections incl. all bolts etc.				
	Lateral tie to Column				
K	Welded / bolted connection from LT1 to C1	19	No.		
L	Welded / bolted connection from LT1 to C2	7	No.		
M	Welded / bolted connection from LT1 to R1	4	No.		
	Allowance				
N	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	(Cont) Ties				
	(Cont) Lateral tie to Column				
	Shop Prime / Surface Finish				
A	Allowance for shop prime and surface finish as required to lateral ties :[81 m]	33	m2		
	Braces				
	EA Roof Braces				
B	CB1 - 75 x 75 x 9.0 equal angle roof brace :[4/6.0 4/6.9 2/7.2 2/7.8]	0.84	t		
	Connections incl. site weld or attached and bolted plate connections incl. all bolts etc.				
	Bracing to Rafers				
C	Welded / bolted connection from CB1 to R1	24	No.		
	Allowance				
D	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		
	Shop Prime / Surface Finish				
E	Allowance for shop prime and surface finish as required to lateral ties :[82 m]	27	m2		
	Purlins				
	Proprietary Purlins				
F	Prices for proprietary purlins, girts, bridgings and tie rods shall be deemed to include for all drilling, laps, splices and fixings, bolts, nuts, and washers and securing members to the supporting structure		Note		
G	RP01 - Z15075 galvanized purlins (measured nett - no allowance for laps)	527	m		
H	RP02 - C200 galvanized purlins (measured nett - no allowance for laps)	58	m		
	Bolts in connection				
J	M12 purlin bolts (Purlin to purlin cleat)	504	No.		

	Description	Qty	Unit	Rate	Amount
	STRUCTURAL STEEL (Cont)				
	(Cont) Purlins				
	Allowance				
A	Allowance for sundries, attached and loose connections, bolts, etc.	1	Item		

Description	Qty	Unit	Rate	Amount
STRUCTURAL STEEL (Cont)				
COLLECTION				
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Page No. 11/10				
Page No. 11/11				
Page No. 11/12				
STRUCTURAL STEEL				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	METALWORK				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	Measurement and prices deemed to include for: any type of bolts and washers which may be required.		Note		
G	Measurement and prices for bolts shall be deemed to include for drilling the structure including steelwork as required.		Note		

	Description	Qty	Unit	Rate	Amount
	METALWORK (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for metalwork generally shall be deemed to include for all fabrication work, including cutting, notching, drilling, bolting, riveting, countersinking, welding, brazing, grinding, filling, buffing off smooth, cleaning free from loose scale, slag, rust, grease, burr marks, and foreign matter, and all incidental labours; all expansion joints where required; site welding of components; all fixings including bolts, explosive power fixings, masonry bolt anchors, chemical anchors, connectors and similar items required either as part of the assembly and/or in fixing the metalwork items to adjacent structures including drilling structure as required; shop priming, hot dip galvanizing, powdercoat finishes and any or other applied finish which is required to be carried out prior to delivery to site; touching up shop finishes, regalvanizing and cold galvanizing as required; isolating dissimilar materials; marking, labelling, cleaning		Note		
B	Prices for handrails and balustrades shall be deemed to include for the complete assembly to the suit the particular drawing detail and specification comprising (but not limited to) handrails, mid rails, bottom rails, end standards, intermediate standards, baluster infilling, plate fixings, lugs and similar sundry fixing requirements to suit the assembly; finishing handrails and balustrades at ends and terminals as detailed; forming scrolls, mitres and similar items (NOTE, forming bends, knees, ramps and wreaths in continuous handrails and balustrades have not been measured); forming expansion joints and similar joints that are usually required in continuous length assemblies; drilling and fixing to adjacent structures with and including all bolts, masonry bolt anchors, explosive power fixings, chemical anchors, connectors and similar items as required.		Note		

	Description	Qty	Unit	Rate	Amount
	METALWORK (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for masonry anchors and/or chemical anchors shall be deemed to include for determining the length of bolt and embedment required to suit the fixing and location and all necessary anchoring devices together with bolts, studs, nuts, etc.,for any type of washer which may be required and for drilling the structure as required. NOTE, the length of bolts have not been given in the item description. The Contractor is required to determine this information and to allow in his price for whatever length is required to suit the fixing.		Note		
B	The Contractor is referred to the Specification and drawings for full details and descriptions for all items of metalwork included herein.		Note		
C	The method of dimensioning or describing metalwork items does not imply any particular or necessary fabrication or installation procedure, and the Contractor shall ensure that the prices include for his requirements in this regard.		Note		
D	All sizes given are approximate only and shall be confirmed on site prior to manufacture.		Note		
E	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
F	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		

	Description	Qty	Unit	Rate	Amount
	METALWORK (Cont)				
	ALTERNATIVES/ OPTIONS				
A	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
B	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
C	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
D	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
E	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
F	STRUCTURAL STEEL - Structural steel framing		Note		
G	DOOR HARDWARE - Hardware for metal doors		Note		
	GENERAL ITEMS				
H	Allow for the preparation of shop drawings as specified		Item		
J	Allow for samples as specified		Item		
K	Allow for sample installations and prototypes		item		
L	Allow for testing as specified		Item		
M	Allow for inspections as specified		Item		

	Description	Qty	Unit	Rate	Amount
	METALWORK (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for submissions as specified		Item		
B	Allow for warranties as specified		Item		
C	Allow for maintenance manuals as specified		Item		
	BALUSTRADES & HANDRAILS				
	External; Aluminium powdercoated batten balustrades				
D	1100mm high; to Level 1 balconies	14	m		
E	1100mm high; to External Stair	6	m		
F	1100mm high; to internal stair (On plan)	12	m		
	External; handrails and railings				
G	Metal pipe handrails to external steps at ground level; details TBC	8	m		
	SCREENS & GATES				
	External screen; powdercoated batten aluminium feature screens around external facade; including all brackets, cleats, fasteners and fixings and additional structural framing and bracing members as required.				
H	Vertical; 1800mm wide x 3800 mm high overall with approx. 780mm x 1350mm Hinged panel batten screen window opening on one side only (sides of balcony)	8	No.		
J	Horizontal; 1800mm wide x 4820 mm long overall (under and over balcony)	6	No.		
K	Vertical; 1210mm wide x 3600mm high overall (different design at section adjacent sliding door)	2	No.		

	Description	Qty	Unit	Rate	Amount
	METALWORK (Cont)				
	(Cont) SCREENS & GATES				
	External building screens & gate; powdercoated batten aluminium feature screens at Level 2 Porticos; including all brackets, cleats, fasteners and fixings and additional structural framing and bracing members as required.				
	AWNINGS/SUNHOODS				
	Metal awnings to Architects Specification				
A	2410 x 450mm wide; over window	6	No.		
	PALISADE FENCING & GATES				
	Aluminium powedercoated batten fencing; including all brackets, cleats, fasteners and fixings and additional structural framing and bracing members as required.				
B	1800 high fencing	114	m		
C	Extra over 1800 high fencing for operable gate	1	No.		

Description	Qty	Unit	Rate	Amount
METALWORK (Cont)				
COLLECTION				
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Page No. 12/6				
METALWORK				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	ROOFING				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	ROOFING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	Roofing				
B	Measurement and prices deemed to include for: separation strips other than those specifically detailed in the contract documents, nails screws, clips, rivets, straps and similar items'.		Note		
C	Measurement and prices for roofing shall be deemed to include for all protectors, jointing materials, solder, brazing material, bolts, washers, metal or other plugs, anchors, lugs, power driven fasteners, wedges, holdfasts, sealants etc., required for fixing and to make the roof, flashings and rainwater goods completely weathertight incl side lap seals, drilling holes and for fixing complete, separation strips detailed in the contract documents, provision for thermal movement, protection, covering up as necessary and making good.		Note		
D	Measurement and prices shall be deemed to including for forming penetrations and sealing, flashing for all services, fixings not shown on the roof plan including but not limited to mechanical, electrical, plumbing, hydraulics and and drainage services.		Note		
	Insulation				
E	Prices for insulation shall include for lapping at edges, sealing around penetrations with approved adhesive tape as required.		Note		
	Cappings and Flashings				
	Prices for flashings and cappings shall be deemed to include for:				
F	expansion joints and junctions		Note		
G	angles, stop ends and the like		Note		
H	sealing with sealant and foam filler strips as required		Note		

	Description	Qty	Unit	Rate	Amount
	ROOFING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
	(Cont) Cappings and Flashings				
	(Cont) Prices for flashings and cappings shall be deemed to include for:				
A	cutting and forming grooves in masonry or concrete, turning into masonry joints, wedging and pointing with mastic		Note		
B	all necessary packers		Note		
C	all fixings		Note		
D	touching up all damaged colorbond or other surfaces		Note		
E	wedging & pointing with mastic or sealant		Note		
F	separating all dissimilar metals with an approved isolating medium		Note		
G	provide and allow for all thermal movement including movement in joints and fastenings		Note		
H	Prices shall be deemed to include for all structural member penetrations of the roof and wall sheeting and all flashings, weather proofing, sealants and the like		Note		
J	Prices for forming openings for pipes in metal roof cladding shall include for Dektite flexible pipe flashings, sealants and laps as specified.		Note		
	Downpipes				
K	Prices for downpipes shall include for expansion joints, short lengths and joints in the running length. Downpipe bends, junctions and connections, etc. have been enumerated and the prices for which shall include for all cutting and extra joints		Note		
	ALTERNATIVES/ OPTIONS				
L	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		

	Description	Qty	Unit	Rate	Amount
	ROOFING (Cont)				
	(Cont) ALTERNATIVES/ OPTIONS				
A	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
B	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
C	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
D	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHERS SECTIONS				
E	HYDRAULICS - Plumbing apart apart from roof gutters and downpipes		Note		
	GENERAL ITEMS				
F	Allow for inspections as specified		Item		
G	Allow for performance criteria as specified		Item		
H	Allow for submissions and samples as specified		Item		
J	Allow for warranties as specified		Item		
K	Allow for maintenance manuals as specified		Item		

	Description	Qty	Unit	Rate	Amount
	ROOFING (Cont)				
	METAL ROOF SHEETING				
	0.48 mm thick BMT Colorbond Ultra Klip-lok 700 Hi-Strength metal roof sheeting screw fixed including laps installed in accordance with the specification and manufacturers recommendations				
A	Main Building roof	369	m2		
B	Main Building lower roof (Grids 1 - 7)	37	m2		
C	Main Building lower roof (Grids A - B)	4	m2		
D	Main Building lower roof incl. Guardhouse (Grids D - H)	57	m2		
	SAFETY MESH, SARKING, INSULATION				
	Safety Mesh				
	Approved safety mesh fixed to steel framing (no allowance made for laps or sag)				
E	Main Building roof	369	m2		
F	Main Building lower roof (Grids 1 - 7)	37	m2		
G	Main Building lower roof (Grids A - B)	4	m2		
H	Main Building lower roof incl. Guardhouse (Grids D - H)	57	m2		
	Sarking				
	Prices for sarking shall include for all necessary laps, cutting, adhesives, tapes to achieve air tight layer including sealing around any penetrations				
	Breathable (vapour permeable) membrane, installed in accordance with the specification, with all required sealing				
J	Main Building roof	369	m2		
K	Main Building lower roof incl. Guardhouse	98	m2		

	Description	Qty	Unit	Rate	Amount
	ROOFING (Cont)				
	(Cont) SAFETY MESH, SARKING, INSULATION				
	Insulation				
	Bradford Anticon R1.8 insulation blanket laid over roof support framing and fit tightly between framing members in accordance with the manufacturers recommendations				
A	Main Building roof	369	m2		
B	Main Building lower roof	98	m2		
	FLASHINGS & CAPPINGS				
	Custom folded 0.55 mm BMT Colorbond Ultra steel sheet flashings/cappings fixed over roof profiles including all labours, jointing and fixings				
	Main Building roof				
C	Apron and cover flashing to raking profile (Cover flashing 200mm girth and dressed into blockwork/ Underflashing 300mm girth	7	m		
D	Barge capping/flashing to raking profile	32	m		
E	Ridge skillion capping	10	m		
F	Rdige capping	20	m		
G	Fascia capping	50	m		
	Main Building Lower Roof incl. Guardhouse				
H	Apron and cover flashing (Cover flashing 200mm girth and dressed into blockwork/ Underflashing 300mm girth	33	m		
J	Apron and cover flashing to raking profile (Cover flashing 200mm girth and dressed into blockwork/ Underflashing 300mm girth	9	m		
K	Barge capping/flashing to raking profile	14	m		
L	Ridge skillion capping	7	m		
M	Fascia capping	39	m		

	Description	Qty	Unit	Rate	Amount
	ROOFING (Cont)				
	GUTTERS & DOWNPIPES				
	Colorbond Ultra steel edge gutters; including all fixings installed as per the manufacturers instructions				
	Main Building roof				
A	Approx. 300 wide edge gutters	50	m		
B	Stop ends	6	No.		
C	Downpipe outlets	10	No.		
	Main Building lower roof				
D	Approx. 300 wide edge gutters	39	m		
E	Stop ends	8	No.		
F	Downpipe outlets	10	No.		
	Colorbond Ultra downpipes; approved joints including bracket supports and similar items				
	Main Building roof				
G	150 x 75mm downpipes :[12 No]	80	m		
H	Bends	24	No.		
J	Spreader to lower roof	4	No.		
K	Shoes / base connections	8	No.		
	Main Building lower roof				
L	150 x 75mm downpipes :[8 No]	39	m		
M	Bends	16	No.		
N	Shoes / base connections	8	No.		

Description	Qty	Unit	Rate	Amount
ROOFING (Cont)				
COLLECTION				
Page No. 13/1				
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Page No. 13/3				
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Page No. 13/5				
Page No. 13/6				
Page No. 13/7				
ROOFING				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	RENDER				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	RENDER (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
G	TANKING' - Waterproof membranes to floors and walls		Note		
	GENERAL ITEMS				
H	Allow for submissions and samples		Item		
J	Allow for inspections		Item		
K	Allow for warranties		Item		

	Description	Qty	Unit	Rate	Amount
	RENDER (Cont)				
	RENDER				
	Sand and cement render to blockwork walls or FC lined walls as specified; prepared to take paint; incl. waterproofing additives as necessary				
A	Generally to areas	288	m2		
B	To narrow widths not exceeding 300 wide	104	m		

Description	Qty	Unit	Rate	Amount
RENDER (Cont)				
COLLECTION				
Page No. 14/1				
Page No. 14/2				
Page No. 14/3				
RENDER				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	EXTERNAL CLADDING & FACADE				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	EXTERNAL CLADDING & FACADE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices deemed to include for: notching and fitting around projections, pipes, light fittings, hatches, grilles and similar items complete with all cleats, packers, wedges and similar items and all nails and screws.		Note		
C	Measurement and prices also deemed to include for: external salient angles; edges set and finished flush with solid plastering in same plane; cutting and making good around sprinkler heads and similar items.		Note		
D	Prices for plasterboard, fibrous plaster and similar items shall also include for preparing surfaces including treatment of any substrate as required prior to fixing the wall lining; set out; forming penetrations; all necessary fixings by mechanical means, screwing, glueing, stopping, etc.; taping and setting joints and holes; mitering at angles; sundry caulking where not included elsewhere herein, forming flush joints with other finishings, trimming as necessary for conduit, power points, pipes, sleeves, ducts, etc.; forming arrises and internal and external angles, etc.		Note		
E	In addition, prices for sheet linings shall be deemed to include for fixings to framing with studs generally at 600 centres, unless described otherwise		Note		
	ALTERNATIVES/ OPTIONS				
F	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
G	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		

	Description	Qty	Unit	Rate	Amount
	EXTERNAL CLADDING & FACADE (Cont)				
	(Cont) ALTERNATIVES/ OPTIONS				
A	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
B	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
C	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
D	STRUCTURAL STEEL - Framing		Note		
E	ROOFING - Flashing and cappings		Note		
F	REDNER - Render to FC sheet		Note		
G	PAINTING - Painting to FC sheet cladding		Note		
	GENERAL ITEMS				
H	Allow for inspections as required		Item		
J	Allow for providing prototypes as specified		Item		
K	Allow for all necessary special noggings, backing support panels etc. for supporting fixtures and equipment and similar items as specifically detailed and as specified		Item		

	Description	Qty	Unit	Rate	Amount
	EXTERNAL CLADDING & FACADE (Cont)				
	PRESEALED COMPRESSED FIBRE CEMENT CLADDING				
A	External claddings walls shall be engineered by an approved engineer to loads required by the structural drawings and specification. Prices for cladding wall systems shall include for all necessary support framing for cladding systems, bracing etc. design, engineering, shop drawings, etc. as specified		Note		
	James Hardie Scyon Axon, compressed fibre cement cladding system, 9mm sheet thick, 133 Smooth, vertical grooves, including furring channels/top hats, vapour barrier, flashings and fixings installed in accordance with the manufacturer's recommendations and the specification. Including forming openings and sealing/flashing to adjoining surfaces.				
B	Fixed to masonry external walls or steel framing as indicated on Level 1 and Level 2 (Wall reference EW02, finishes reference FN.03); to receive paint finish (painting measured separately)	188	m2		
	FIBRE CEMENT LININGS				
	6m fibre cement lining to external soffits on and including metal framing, flush set prepared to receive paint finish				
C	Level 1 lower soffit	44	m2		
D	Level 1 upper roof soffit	86	m2		

Description	Qty	Unit	Rate	Amount
EXTERNAL CLADDING & FACADE (Cont)				
COLLECTION				
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Page No. 15/4				
EXTERNAL CLADDING & FACADE				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	ALUMINIUM DOORS AND WINDOWS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	ALUMINIUM DOORS AND WINDOWS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Prices for aluminium framed windows, louvres and doors shall be deemed to include for all necessary design and complete installation; allowing for expansion and contraction; powdercoating and/or any other finish as specified; isolating dissimilar materials; packers as required; fixing anchors, lugs, brackets, couplings, screws, bolts, etc. and all other fixing devices necessary for the installation of the units; glass and glazing with glazing strips, gaskets, tapes, discs, setting blocks, sealants etc., labeling		Note		
C	All overall unit sizes given are approximate only and shall be confirmed on site prior to commencing manufacture. Sizes have been stated as width x height unless described otherwise.		Note		
D	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
E	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
F	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
G	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		

	Description	Qty	Unit	Rate	Amount
	ALUMINIUM DOORS AND WINDOWS (Cont)				
	(Cont) ALTERNATIVES/ OPTIONS				
A	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
B	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
C	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	GENERAL ITEMS				
D	Allow for inspections as specified	1	Item		
E	Allow for submissions and samples as specified	1	Item		
F	Allow for shop drawings as specified	1	Item		
G	Allow for maintenance manuals and warranties as specified	1	Item		
	GENERALLY				
H	Refer to Architectural Drawing DD 700-01(B) and DD 720-01(B) for requirements		Note		

	Description	Qty	Unit	Rate	Amount
	ALUMINIUM DOORS AND WINDOWS (Cont)				
	EXTERNAL ALUMINIUM FRAMED DOORS				
	Fire Rated - Aluminium commercial framed glazed door unit with powdercoated finish and glazed as specified to meet AS 1288 and minimum energy efficiency requirements, including all hardware, sealants and complete with fire and smoke seals etc. as required				
	Door Type - DT.03 - Double Swing Fire Rated Door				
A	Frame to suit 1840mm overall wide x 2040mm high to house 2 x 920mm wide x 2040mm high double swing glazed self closing doors (G.01)	1	No.		
	EXTERNAL ALUMINIUM FRAMED WINDOWS				
	Aluminium commercial framed window unit with powdercoated finish and glazed as specified to meet AS 1288 and minimum energy efficiency requirements, including all hardware, sealants etc. as required				
	Window Type W.01 - (1 x Fixed Panel)				
B	600mm wide x 1800mm high (G.01, G11)	2	No.		
C	900mm wide x 450mm high (G.05, G06, G.07, G.08, G.09, G.10, G.33, 1.17, 1.18)	9	No.		
D	900mm wide x 2100mm high (1.14, 1.15)	2	No.		
E	1200mm wide x 1200mm high (G.31, G.32)	2	No.		
F	1200mm wide x 1800mm high (1.12)	1	No.		
	Window Type W.10 - (1 x Fixed Panel)				
G	600mm wide x 1800mm high (G.20, G.21, G.22, G.23, G.24, 1.20, 1.21, 1.23, 1.24)	9	No.		
	Window Type W.02 - (2 x Fixed Panel)				
H	1200mm wide x 1300mm high (G.13, G.14, G.15, 1.09, 1.10, 1.11)	6	No.		
J	2000mm wide x 1300mm high (G.12)	1	No.		
K	2200mm wide x 1300mm high (1.08)	1	No.		

To Collection $

	Description	Qty	Unit	Rate	Amount
	ALUMINIUM DOORS AND WINDOWS (Cont)				
	(Cont) EXTERNAL ALUMINIUM FRAMED WINDOWS				
	Window Type W.03 - (3 x Fixed Panel)				
A	1700mm wide x 1800mm high (G.02, G.18)	2	No.		
B	2000mm wide x 1800mm high (1.06)	1	No.		
C	2400mm wide x 1800mm high (1.04)	1	No.		
D	2500mm wide x 1800mm high (G.04)	1	No.		
E	2600mm wide x 1800mm high (1.03, 1.05, 1.07)	3	No.		
F	2800mm wide x 1800mm high (G.19)	1	No.		
G	2900mm wide x 1800mm high (G.20)	1	No.		
H	3050mm wide x 2100mm high (1.01, 1..02)	2	No.		
J	2200mm wide x 2700mm high (1.13)	1	No.		
	Window Type W.04 - (4 x Fixed Panel)				
K	4200mm wide x 2100mm high (1.16)	1	No.		
	Window Type W.05 - (1 x Fixed Panel with Hinged Pass Through)				
L	1150mm wide x 900mm high with hinged and lockable pass through window (G.16, G.17)	2	No.		
	Window Type W.06 - (2 x Panel Window - 1 x Fixed and 1 x Sliding)				
M	1200mm wide x 1300mm high sliding window (G.13, G.14, G.15, 1.09, 1.10, 1.11)	6	No.		
N	2000mm wide x 1300mm high sliding window (G.12)	1	No.		
P	2200mm wide x 1300mm high sliding window (1.08)	1	No.		

	Description	Qty	Unit	Rate	Amount
	ALUMINIUM DOORS AND WINDOWS (Cont)				
	EXTERNAL ALUMINIUM WINDOW SCREENS				
	Aluminium framed 'Crimsafe' or similar security screen, powdercoated finish, including all hardware. all in accordance with the manufactureres recommendations and incl. all hardware as required to the following:				
A	Fixed screen (1 panel) approx 600mm wide x 1300mm high to suit 1200mm wide x 1300mm high sliding window (G.13, G.14, G.15, 1.09, 1.10, 1.11)	6	No.		
B	Fixed screen (1 panel) approx 1000mm wide x 1300mm high to suit 2000mm wide x 1300mm high sliding window (G.12)	1	No.		
C	Fixed screen (1 panel) approx 1100mm wide x 1300mm high to suit 2200mm wide x 1300mm high sliding window (1.08)	1	No.		

Description	Qty	Unit	Rate	Amount
ALUMINIUM DOORS AND WINDOWS (Cont)				
COLLECTION				
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Page No. 16/5				
Page No. 16/6				
ALUMINIUM DOORS AND WINDOWS				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	SHOWER SCREENS, MIRRORS & DECORATIVE GLAZING				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	SHOWER SCREENS, MIRRORS & DECORATIVE GLAZING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices deemed to include for: frames, mullions, transoms, glazing bars and beads, trims, caulking and pointing, sashes, casements, hinges, fastenings and other hardware'.		Note		
C	Prices shall be deemed to include for fixing complete, including all glazing materials, cleaning down and polishing both surfaces on completion, taking out and renewing all cracked, damaged, scratched or otherwise defective glazing on completion and leaving in a sound and perfect condition.		Note		
D	Prices shall be deemed to include for all necessary design and complete installation; allowing for expansion and contraction; powdercoating and/or any other finish as specified; isolating dissimilar materials; packers as required; fixing anchors, lugs, brackets, couplings, screws, bolts, etc. and all other fixing devices necessary for the installation of the units; glass and glazing with glazing strips, gaskets, tapes, discs, setting blocks, sealants etc., labeling		Note		
E	Prices for door units shall include for reviewing the hardware schedule to determine the fixing requirements for all hardware and for all cutting, notching, drilling, etc in the window and door assembly to suit the fixing requirements othe hardware type specified		Note		
F	The Contractor is referred to the Specification and Drawings for full details and descriptions for all items measured herein.		Note		
G	The method of dimensioning or describing window and glazing units, and louvre units is no indication of any particular or necessary fabrication or installation procedure, and the Contractor shall ensure the prices include for all requirements in this regard.		Note		

	Description	Qty	Unit	Rate	Amount
	SHOWER SCREENS, MIRRORS & DECORATIVE GLAZING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	All overall unit sizes given are approximate only and shall be confirmed on site prior to commencing manufacture. Sizes have been stated as width x height unless described otherwise.		Note		
B	Sizes are approximate only and must be confirmed on site before commencing manufacture		Note		
	ALTERNATIVES/ OPTIONS				
C	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
D	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
E	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
F	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
G	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
H	JOINERY - Glass Splashbacks to Kitchens		Note		

	Description	Qty	Unit	Rate	Amount
	SHOWER SCREENS, MIRRORS & DECORATIVE GLAZING (Cont)				
	GENERAL ITEMS				
A	Allow for protecting on site		Item		
B	Allow for submissions		Item		
	SHOWER SCREENS				
	PWD Shower				
	Grade A, toughened laminated clear glass shower screens; including all trims and fixings; supplied and fixed in accordance with the manufacturers instructions				
C	1100 x 1100mm tracked shower screen rail and screen to suit PWD application	1	No.		
	Shower				
	Grade A, toughened laminated clear glass shower screens; including all trims and fixings; supplied and fixed in accordance with the manufacturers instructions				
D	1000 x 2100mm high glazed screen incl. single pivot door	2	No.		
	MIRRORS				
	Bathroom mirrors, silver finish, supplied and fixed as per the manufacturers instructions				
	PWD Bathroom				
E	1000 x 1000	1	No.		
	Bathrooms				
F	1000 x 1000	4	No.		
	Security Bathroom				
G	1000 x 1000	1	No.		

Description	Qty	Unit	Rate	Amount
SHOWER SCREENS, MIRRORS & DECORATIVE GLAZING (Cont)				
COLLECTION				
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SHOWER SCREENS, MIRRORS & DECORATIVE GLAZING				

	Description	Qty	Unit	Rate	Amount
	CARPENTRY/WOODWORK				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	CARPENTRY/WOODWORK (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices are deemed to include for: all labours in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar complete with all cleats, packers, wedges and similar and all nails and screws'		Note		
C	Measurement and prices for joinery fittings shall be deemed to include for the following:		Note		
D	Design and fabrication to the requirements of the Drawings and specification; supply, delivery to site and fixing in position complete; all site measurements; assembly and prior sub-assembly; support framing, sundry brackets, etc.; all fasteners, caps, hardware, etc. as indicated on the Drawings and as necessary for the function of the unit and as specified, sealants and sealant rebates: provision of service openings etc., fitting around structural projections, columns and the like, coordination on location of all necessary timber noggings, sundry framing and scribing pieces at junctions with walls, etc.; all finishes including finishing all non-laminated surfaces either by prepainting or painting, pickling and polishing stainless steel on site as required; identification.		Note		

	Description	Qty	Unit	Rate	Amount
	CARPENTRY/WOODWORK (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for associated metalwork generally shall be deemed to include for all fabrication work, including cutting, notching, drilling, bolting, riveting, countersinking, welding, brazing, grinding, filling, buffing off smooth, cleaning free from loose scale, slag, rust, grease, burr marks, and foreign matter, and all incidental labours; all expansion joints where required; site welding of components; all fixings including bolts, explosive power fixings, masonry bolt anchor, chemical anchors, connectors and similar items required either as part of the assembly and/or in fixing the metalwork items to adjacent structures including drilling structure as required; shop priming, hot dip galvanising, powdercoat finishes and any or other applied finish which is required to be carried out prior to delivery to site, touching up shop priming, regalvanising and cold galvanising as required; isolating dissimilar materials; marking, labeling, cleaning and protecting		Note		
B	The descriptions provided for carpentry only serve to briefly describe the units required. The Contractor shall refer to the Specification and the architectural drawings for full details of all materials, fabrication and installation requirements for these units.		Note		
C	Units have generally been described length x width x height unless noted otherwise		Note		
	ALTERNATIVES/ OPTIONS				
D	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
E	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
F	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		

	Description	Qty	Unit	Rate	Amount
	CARPENTRY/WOODWORK (Cont)				
	TAXES AND RELATED CHARGES				
A	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
B	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
C	JOINERY - Fixed Joinery		Note		
	GENERAL ITEMS				
D	Allow for inspections as specified		Item		
E	Allow for submissions as specified		Item		
F	Allow for shop drawings as specified		Item		
G	Allow for prototypes as specified		Item		
H	Allow for providing warranties as required		Item		
J	Allow for samples as specified		Item		
K	Allow for maintenance manuals as specified		Item		
	ARCHITRAVES				
	Intrim SK51 Architrave (or equal approved alternative); 42mm MR MDF (Finishes ref FN.22); to:				
L	Timber door frames generally	144	m		
M	External glazed door surrounds	44	m		
N	External glazed window surrounds	118	m		

	Description	Qty	Unit	Rate	Amount
	CARPENTRY/WOODWORK (Cont)				
	SKIRTINGS				
	Intrim KS22 Skirting (or equal approved alternative) 90mm MR MDF (Finishes ref FN.21); fixed to walls generally as indicated				
A	Ground Floor	184	m		
B	Level 1	222	m		
	FASCIAS				
C	320mm high marine ply fascia boards to roofs generally; fixed to purlins, structural steel or blockwork incl. packers as necessary; to receive metal flashing finish	88	m		

Description	Qty	Unit	Rate	Amount
CARPENTRY/WOODWORK (Cont)				
COLLECTION				
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CARPENTRY/WOODWORK				

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	Description	Qty	Unit	Rate	Amount
	PARTITION & LININGS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	PARTITION & LININGS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices deemed to include for: notching and fitting around projections, pipes, light fittings, hatches, grilles and similar items complete with all cleats, packers, wedges and similar items and all nails and screws.		Note		
C	Measurement and prices also deemed to include for: external salient angles; edges set and finished flush with solid plastering in same plane; cutting and making good around sprinkler heads and similar items.		Note		
D	Prices for plasterboard, fibrous plaster and similar items shall also include for preparing surfaces including treatment of any substrate as required prior to fixing the wall lining; set out; forming penetrations; all necessary fixings by mechanical means, screwing, glueing, stopping, etc.; taping and setting joints and holes; mitering at angles; sundry caulking where not included elsewhere herein, forming flush joints with other finishings, trimming as necessary for conduit, power points, pipes, sleeves, ducts, etc.; forming arrises and internal and external angles, etc.		Note		
E	In addition, prices for sheet linings shall be deemed to include for fixings to framing with studs generally at 600 centres, unless described otherwise		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	PARTITION & LININGS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHERS SECTIONS				
G	CEILINGS' - Bulkheads, linings and access panels to ceilings		Note		
H	DOORS AND FRAMES' - Steel door frames and fixing to partitions		Note		
J	JOINERY' - Timber veneer linings and framing, and laminated linings		Note		

	Description	Qty	Unit	Rate	Amount
	PARTITION & LININGS (Cont)				
	GENERAL ITEMS				
A	Allow for submissions as specified		Item		
B	Allow for inspections as specified		Item		
C	Allow for shop drawings as specified		Item		
D	Allow for providing spares as specified		Item		
E	Allow for all extra control joints and movement joints where not shown on the drawings as required		Item		
F	Allow for samples as required		Item		
G	Allow for constructing prototypes as required		Item		
H	Allow with providing pressure tested partitions and linings and sarking linings		Item		
J	Allow for structural certification as specified		Item		
	METAL FRAMING TO PARTITIONS				
K	Linings measured separately below.		note		
	92mm stud partition insulated with 50mm GW Acousticguard 11kg (Wall reference P1)				
L	2000-3000mm high	122	m2		
M	Forming single door openings in the above	4	No.		
	92mm stud partition insulated with 75mm GW Acousticguard 11kg (Wall reference P2 & P3)				
N	2000-3000mm high	680	m2		
P	Forming single door openings in the above	14	No.		
	METAL FRAMING TO BULKHEADS				
Q	Linings measured separately below.		Note		
	40mm top hat framing to bulkhead (Wall reference P10)				
R	Framing not excceding 300 mm high vertical bulkhead	14	m		

	Description	Qty	Unit	Rate	Amount
	PARTITION & LININGS (Cont)				
	METAL FRAMING FIXED TO MASONRY WALLS				
A	Linings measured separately below.		note		
	28mm furring Channel, air gap plus 40mm furring channel with 50GW Acousticguard 11Kg insulation; including framing around window and door openings (Wall Reference L1 & L2)				
	LININGS				
	Plasterboard linings screw fixed to metal framing and finished in accordance with the manufacturers instructions; Level 4 finish to receive paint; including all angles, works to openings and sundries				
B	13mm standard plasterboard generally	436	m2		
C	13mm standard plasterboard to vertical bulkheads; not exceeding 300mm high	18	m		
	Plasterboard linings direct stick adhesive daub fixed to blockwork and finished in accordance with the manufacturers instructions; Level 4 finish to receive paint; including all angles, works to openings and sundries				
D	13mm standard plasterboard	114	m2		
	Fibre cement linings screw fixed to metal framing and finished in accordance with the manufacturers instructions; finish to receive tiles; including all angles, works to openings and sundries				
E	6mm fibre cement	88	m2		
F	6mm fibre cement	122	m2		
	Fibre cement linings direct stick adhesive daub fixed to blockwork and finished in accordance with the manufacturers instructions; finish to receive tiles; including all angles, works to openings and sundries				
G	6mm fibre cement on adhesive daubs to blockwork; to recieve tile finish	48	m2		

Description	Qty	Unit	Rate	Amount
PARTITION & LININGS (Cont)				
COLLECTION				
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PARTITION & LININGS				

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	Description	Qty	Unit	Rate	Amount
	SUSPENDED CEILINGS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	SUSPENDED CEILINGS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices deemed to include for: cutting and making good around sprinkler heads, pipes and similar items'.		Note		
C	Measurement and prices for forming openings for smoke detectors, thermal alarms, emergency lighting, small down lights, exit luminaries and all other openings not measured below are deemed to be included		Note		
D	Measurement and prices for ceilings shall be deemed to include for the following:		Note		
E	Complete setout and installation including sheet, metal or tile ceiling linings, support framing, hangers, brackets, hooks, clips, screws, bolts, masonry anchors, power driven or other fasteners, drilling, mortices, jointing materials, caulking compounds, adhesives, tape, etc.; additional support framing and suspension as required for bridging beams, ducts, service pipes and similar within ceiling space; notching and trimming around projections in the ceiling perimeter; working around and in conjunction with other trades installing works in the ceiling space; coordination with other trades and in particular the Services Sub-Contractors; all necessary additional framing and strengthening where the ceiling system is required to adequately support ceiling mounted equipment, lights, registers and the like; protection of completed work		Note		
F	Prices for furrings channels, top hats, etc. shall include for the provision of all necessary framing at the the required centres as specified or required by the manufacturers recommendations including all extra framing at edges, joints in sheetings and the like.		Note		

	Description	Qty	Unit	Rate	Amount
	SUSPENDED CEILINGS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for forming junctions with other ceiling types or structures shall be deemed to include all cutting, narrow widths, etc., trims and finishes required to form the junction in accordance with the architectural requirements and including any necessary additional support framing and/or fixings		Note		
B	Prices for ceilings shall include for all required control/expansion joints as specified		Note		
C	Prices for forming openings in ceilings shall be deemed to include for providing additional framing to the ceiling system to form the opening and also for strengthening the suspension system to provide adequate support around the opening		Note		
D	In addition prices for forming penetrations in ceiling tiles shall be deemed to include for providing plywood supporting to all ceiling tiles which have penetrations		Note		
E	Prices for bulkheads, beam casings and similar items shall be deemed to include for all necessary primary framing and secondary furring channel framing to complete the installation and construct to the profiles as documented		Note		
F	Prices for acoustic treatments shall include for sealing all paths of flanking sound transmission as specified		Note		
G	Openings for light fittings, access panels, mechanical grilles and the like have not been deducted from ceiling areas		Note		
H	Prices for "flush jointed" or "flush set" ceilings shall include for achieving a Level 4 finish as specified		Note		

	Description	Qty	Unit	Rate	Amount
	SUSPENDED CEILINGS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
B	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
C	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
D	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
E	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
F	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
G	All dimensions given in item descriptions are in mm unless otherwise described.		Note		

	Description	Qty	Unit	Rate	Amount
	SUSPENDED CEILINGS (Cont)				
	WORK IN OTHER SECTIONS				
A	EXTERNAL CLADDING/FACADE SYSTEMS - external soffit linings and gable end linings		Note		
B	PARTITIONS & LININGS - partitions and linings in and above ceiling space		Note		
C	MECHANICAL SERVICES - mechanical vents, penetrations in exposed grid ceilings		Note		
D	ELECTRICAL SERVICES - lighting troughs and penetrations in exposed grid ceilings		Note		
	GENERAL ITEMS				
E	Allow for inspections as specified		Item		
F	Allow for submissions as specified		Item		
G	Allow for preparing shop drawings as required		Item		
H	Allow for samples as specified		Item		
J	Allow for tests as specified		Item		
K	Allow for maintenance manuals as specified		Item		
L	Allow for spares as specified		Item		
	SUSPENDED CEILINGS				
	Proprietary metal framed suspended grid system ceiling system; hangers fixed to underside of suspended concrete slab with grid ceiling system as specifiied				
	Fibre Grid Ceiling				
M	CL03 - suspended ceiling system, 2600mm high	132	m2		
N	Perimeter trim	93	m		
	Proprietary metal framed suspended grid system ceiling system; hangers fixed to underside of steel roof structure with grid ceiling system as specifiied				
	Fibre Grid Ceiling				
P	CL03 - suspended ceiling system, 2400mm high	134	m2		
Q	CL03 - suspended ceiling system, 2600mm high	14	m2		

	Description	Qty	Unit	Rate	Amount
	SUSPENDED CEILINGS (Cont)				
	(Cont) SUSPENDED CEILINGS				
	(Cont) Fibre Grid Ceiling				
A	CL03 - suspended ceiling system, 2700mm high	32	m2		
B	Perimeter trim	108	m		
	Proprietary metal framed suspended system ceiling system; hangers fixed to underside of suspended concrete slab lined and set as specified to Level 4 finish				
	Plasterboard ceiling				
C	CL.01 - 10mm flush set plasterboard ceiling; 2600mm high (Reception)	21	m2		
D	Perimeter trim		m		
E	Transition trim		m		
	Fibre cement ceiling				
F	CL.02 - 6mm flush set fibre cement ceiling, 2400mm high (Bathrooms)		m2		
G	CL.02 - 6mm flush set fibre cement ceiling, 2700mm high (Kitchen)		m2		
H	Perimeter trim		m		
	External - Fibre Cement Ceiling				
J	CL.02 - 6mm flush set fibre cement ceiling, 2400mm high (Verandah)		m2		
K	Perimeter trim		m		
	External - Fibre Cement Soffit				
L	CL.02 - 6mm flush set fibre cement raking eaves soffit, 6000mm high above ground level		m2		
M	Perimeter trim, abbutment to building		m		
N	Perimeter trim, to edge purlin		m		

	Description	Qty	Unit	Rate	Amount
	SUSPENDED CEILINGS (Cont)				
	(Cont) SUSPENDED CEILINGS				
	(Cont) External - Fibre Cement Soffit				
	Proprietary metal framed suspended system ceiling system; hangers fixed to underside of steel roof structure lined and set as specified to Level 4 finish				
	Plasterboard ceiling				
A	CL.01 - 10mm flush set plasterboard ceiling; 2700mm high (Stair)	13	m2		
B	Perimeter trim	12	m		
C	Transition trim	3	m		
	Fibre cement ceiling				
D	CL.02 - 6mm flush set fibre cement ceiling, 2400mm high (Bathrooms)	31	m2		
E	CL.02 - 6mm flush set fibre cement ceiling, 2700mm high (Kitchen)	12	m2		
F	Perimeter trim	67	m		
	External - Fibre Cement Ceiling				
G	CL.02 - 6mm flush set fibre cement ceiling, 2400mm high (Verandah)	19	m2		
H	Perimeter trim	18	m		
	External - Fibre Cement Soffit				
J	CL.02 - 6mm flush set fibre cement raking eaves soffit, 6000mm high above ground level	80	m2		
K	Perimeter trim, abbutment to building	55	m		
L	Perimeter trim, to edge purlin	61	m		
	Proprietary metal framed suspended system ceiling system; hangers fixed to underside of concrete slab lined and set as specified to Level 4 finish				
M					
N					
P					

	Description	Qty	Unit	Rate	Amount
	SUSPENDED CEILINGS (Cont)				
	(Cont) SUSPENDED CEILINGS				
	(Cont) External - Fibre Cement Soffit				
	Cornice				
A	90mm Cove Cornice to all ceilings except bathrooms (Ref finishes schedule FN.20 cornice)		m		
	Access Panels				
B	Proprietary access panels in ceilings; approx. 600 x 600mm (refer Mechanical Layouts)		No.		

Description	Qty	Unit	Rate	Amount
SUSPENDED CEILINGS (Cont)				
COLLECTION				
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SUSPENDED CEILINGS				

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	Description	Qty	Unit	Rate	Amount
	DOORS AND FRAMES				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	DOORS AND FRAMES (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for fire door frames and metal door frames shall be deemed to include for cut outs, spreader bars, stiffener plates, mortar guards, strike plates, ties and anchors, rubber buffers, reinforcing of frames for fixing specified hardware and the like, drilling and tapping for hardware, cutouts for security alarm system reed switches, etc., shop priming, filling backs of frames solid at back with mortar where built into brick, block or concrete walls, pressure grouting where built into brick, block or concrete walls		Note		
B	Prices for timber doors shall include for all necessary beads, stops, glazing and glazing beads, casings, linings, additional framing required for hardware, protection etc.		Note		
C	All door and frame sizes have been given in the order of width x height		Note		
D	Prices for door, frame and door frame sets shall include for specified hinges as documented		Note		
E	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
F	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
G	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		

	Description	Qty	Unit	Rate	Amount
	DOORS AND FRAMES (Cont)				
	(Cont) ALTERNATIVES/ OPTIONS				
A	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
B	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
C	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
D	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
E	ALUMINIUM WINDOW & DOORS - External and Internal Aluminium Glazed Doors and frames		Note		
F	HARDWARE - Supply and installation of door hardware		Note		
G	SIGNAGE - Door signage		Note		
H	PAINTING - Door and Frame Painting		Note		
J	METALWORK - Gates and Garage Doors		Note		
	GENERAL ITEMS				
K	Allow for inspections as specified	1	Item		
L	Allow for submissions as specified	1	Item		
M	Allow for samples as specified	1	Item		
N	Allow for the preparation of shop drawings as required	1	Item		

	Description	Qty	Unit	Rate	Amount
	DOORS AND FRAMES (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for warranties as specified	1	Item		
	METAL DOOR FRAMES				
	Steel Door Frames; (metal - internal door frames)				
B	Frame to suit 820mm wide x 2040mm high x 40mm thick solid core flush panel door (G.16, G.17, G.19, G.20, G.24, G.26, 1.13)	7	No.		
C	Frame to suit 920mm wide x 2040mm high x 40mm thick solid core flush panel door (G.06, G.10, G.11, G.12, G.13, G.14, G.15, G.18, G.25, G.27)	10	No.		
D	Frame to suit 870mm wide x 2100mm high x 40mm thick solid core flush panel door (G.28, 1.01, 1.02, 1.03, 1.04, 1.05, 1.08, 1.09, 1.14, 1.15)	10	No.		
	TIMBER DOORS				
	Timber framed door leaf with glazed lights [Refer to 1.1-720-01[A] - Door Schedule & Details]				
	Door DT.04 - Internal Doors				
E	820mm wide x 2040mm high x 40mm thick solid core flush panel door (G.16, G.17, G.19, G.20, G.24, G.26, 1.13)	7	No.		
F	920mm wide x 2040mm high x 40mm thick solid core flush panel door (G.06, G.10, G.11, G.12, G.13, G.14, G.15, G.18, G.25, G.27)	10	No.		
G	870mm wide x 2100mm high x 40mm thick solid core flush panel door (G.28, 1.01, 1.02, 1.03, 1.04, 1.05, 1.08, 1.09, 1.14, 1.15)	10	No.		

Description	Qty	Unit	Rate	Amount
DOORS AND FRAMES (Cont)				
COLLECTION				
Page No. 21/1				
Page No. 21/2				
Page No. 21/3				
Page No. 21/4				
DOORS AND FRAMES				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	DOOR HARDWARE				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	Measurement and prices are deemed to include for: matching fixings		Note		
G	Where items are described as fixed to wall, prices shall include for fixing to stud frame, masonry, concrete etc. as detailed		Note		
H	Prices for threshold plates shall include for grout filling where necessary		Note		

	Description	Qty	Unit	Rate	Amount
	DOOR HARDWARE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
B	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
C	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
D	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
E	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
F	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
G	All dimensions given in item descriptions are in mm unless otherwise described.		Note		

	Description	Qty	Unit	Rate	Amount
	DOOR HARDWARE (Cont)				
	WORK IN OTHER SECTIONS				
A	JOINERY': - Hardware to joinery fitments		Note		
B	CEILINGS': - Hardware to access panels		Note		
C	ALUMINIUM FRAMED WINDOWS AND DOORS' - Hardware to windows		Note		
	GENERAL ITEMS				
D	Allow for submissions, samples and record documents as specified		Item		
E	Allow for maintenance and manuals and warranties as specified		Item		
F	Allow for master, grand master and construction keying as specified		Item		
	DOOR HARDWARE - SUPPLY AND FIX				
	ALLEGION - Hardware Legge Bergen Series Hardware or equal approved				
	Allow for all door hardware to the following doors:				
	External Doors				
G	900 x 2100 single swing glazed door with 650 x 2400 timber louvered sidelight window (DT02)		No.		
H	820 x 2400 single swing glazed door (DT03)		No.		
J	820 x 2340 single swing solid core flush panel door (DT04)		No.		
K	820 x 2040 single swing solid core flush panel (DT05)		No.		
L	1000 x 2400; type DT01 metal gate		No.		
	Internal Doors				
M	820 x 2100 solid core flush panel door (DT20)		No.		
N	570 x 2100 solid core flush panel door (DT21)		No.		
P					

	Description	Qty	Unit	Rate	Amount
	DOOR HARDWARE (Cont)				
	(Cont) ALLEGION - Hardware Legge Bergen Series Hardware or equal approved				
	(Cont) Internal Doors				
	Push and Pull Hardware				
A	Bathroom push plate		No.		
B	Bathroom 'D' handlepull		No.		
C					
	Door Closers				
D	Door Closer to suit server room door		No.		
E	Door closer to suit bathroom entry door / airlock door		No.		
F	Door closer to suit shower room door		No.		
G					
H					
	Door Stop				
J	Magnetic door stop				

To Collection $

Description	Qty	Unit	Rate	Amount
DOOR HARDWARE (Cont)				
COLLECTION				
Page No. 22/1				
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Page No. 22/3				
Page No. 22/4				
DOOR HARDWARE				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	VINYL PLANK FLOORING				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	VINYL PLANK FLOORING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	Vinyl				
B	Measurement and prices shall be deemed to include for: temporary grounds, screeds and similar; bedding, grouting and pointing materials; cutting and/or making good around pipes, sanitary fixtures and similar; labour to internal angles; curing of finished work; cleaning down and polishing; covering; protecting and masking surfaces'.		Note		
C	Preparing surfaces and treatment of bases; dubbing out as required to adjust for the specified structural and nonstructural tolerances and to provide plumb or level and even surfaces for the application of the required thickness of tiling and beds; soaking tiles; metal lathing; removing and replacing damaged or defective tiles; forming caulked and/or sealant joints around pipes, sanitary fixtures, window and door frames designed joints and similar locations as required.		Note		
D	Measurement and prices of skirtings shall also include for: internal and external angles, exposed ends, etc.		Note		
E	Skirtings described as `fixed to wall' shall be deemed to include skirtings fixed to partition linings, block walls, joinery units, column casings, concrete elements and the like.		Note		
	Cementitious toppings				
F	Measurement and prices also deemed to include for: arrises, rounded or splayed external angles, fair edges, intersections to groins and similar, quirks, grooves, v-joints and similar or at junctions with other finishes; forming flush joints with other finishes in the same plane'		Note		

	Description	Qty	Unit	Rate	Amount
	VINYL PLANK FLOORING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
	(Cont) Cementitious toppings				
A	The prices for in-situ applied finishes and similar items shall also include for preparing surfaces including treatment of any substrate as required prior to applying; set out; forming penetrations; forming flush joints with other finishings, forming arrises and internal and external angles, control and movement joints including caulking and mastic joints, pointing, stopping, etc; curing, cleaning down and protecting the finished work		Note		
B	The prices for in-situ applied finishes and similar items shall also include for all architectural recessed joints in accordance with the elevation drawings		Note		
C	Prices for metal lathing will be deemed to include for all cutting and waste and cutting and fitting around pipes, ducts, conduits and the like.		Note		
D	All toppings are horizontal unless otherwise described, and all sloping toppings and topppings laid to falls and/or cross-falls do not exceed 15 degrees from the horizontal unless otherwise described		Note		
	ALTERNATIVES/ OPTIONS				
E	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
F	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
G	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		

	Description	Qty	Unit	Rate	Amount
	VINYL PLANK FLOORING (Cont)				
	TAXES AND RELATED CHARGES				
A	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
B	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
C	TANKING' - Waterproof membranes to floors and walls		Note		
	GENERAL ITEMS				
D	Allow for submissions and samples as specified	1	Item		
E	Allow for spares as specified	1	Item		
F	Allow for inspections as specified	1	Item		
G	Allow for warranties as specified	1	Item		
H	Allow for operations and maintenance manuals as specified	1	Item		
	VINYL PLANK TILES				
J	Prices and rates for vinyl tiling shall be deemed to include all materials required for levelling and surface preparation and fixing, adhesives, glue, and sundries.		Note		

	Description	Qty	Unit	Rate	Amount
	VINYL PLANK FLOORING (Cont)				
	(Cont) VINYL PLANK TILES				
	Internal Composite Vinyl Tiling				
	176 x 1213 mm plank vinyl floor tile; Grege Bleached Oak (finishes ref FN.06-02); incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
A	To internal areas as indicted; on concrete substrate (Kitchen/Dining/Living, Halls, Bedrooms)	287	m2		
	Transition Strips				
B	Selected threshold/transition/divison strips at changes in floor finish :[14/0.9]	13	m		

Description	Qty	Unit	Rate	Amount
VINYL PLANK FLOORING (Cont)				
COLLECTION				
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Page No. 23/5				
VINYL PLANK FLOORING				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	FLOOR AND WALL TILING				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	FLOOR AND WALL TILING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	Tiling				
B	Measurement and prices shall be deemed to include for: temporary grounds, screeds and similar; bedding, grouting and pointing materials; cutting and/or making good around pipes, sanitary fixtures and similar; labour to internal angles; curing of finished work; cleaning down and polishing; covering; protecting and masking surfaces'.		Note		
C	Measurement and prices for tiling also deemed to include for standard border edged, glazed edge tiles'.		Note		
D	Preparing surfaces and treatment of bases; dubbing out as required to adjust for the specified structural and nonstructural tolerances and to provide plumb or level and even surfaces for the application of the required thickness of tiling and beds; soaking tiles; metal lathing; removing and replacing damaged or defective tiles; forming caulked and/or sealant joints around pipes, sanitary fixtures, window and door frames designed joints and similar locations as required.		Note		
E	Measurement and prices of skirtings shall also include for: internal and external angles, exposed ends, etc.		Note		
F	Skirtings described as `fixed to wall' shall be deemed to include skirtings fixed to partition linings, block walls, joinery units, column casings, concrete elements and the like.		Note		

	Description	Qty	Unit	Rate	Amount
	FLOOR AND WALL TILING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
	Cementitious toppings				
A	Measurement and prices also deemed to include for: arrises, rounded or splayed external angles, fair edges, intersections to groins and similar, quirks, grooves, v-joints and similar or at junctions with other finishes; forming flush joints with other finishes in the same plane'		Note		
B	The prices for in-situ applied finishes and similar items shall also include for preparing surfaces including treatment of any substrate as required prior to applying; set out; forming penetrations; forming flush joints with other finishings, forming arrises and internal and external angles, control and movement joints including caulking and mastic joints, pointing, stopping, etc; curing, cleaning down and protecting the finished work		Note		
C	The prices for in-situ applied finishes and similar items shall also include for all architectural recessed joints in accordance with the elevation drawings		Note		
D	Prices for metal lathing will be deemed to include for all cutting and waste and cutting and fitting around pipes, ducts, conduits and the like.		Note		
E	All toppings are horizontal unless otherwise described, and all sloping toppings and topppings laid to falls and/or cross-falls do not exceed 15 degrees from the horizontal unless otherwise described		Note		
	ALTERNATIVES/ OPTIONS				
F	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
G	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		

	Description	Qty	Unit	Rate	Amount
	FLOOR AND WALL TILING (Cont)				
	(Cont) ALTERNATIVES/ OPTIONS				
A	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
B	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
C	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
D	TANKING' - Waterproof membranes to floors and walls		Note		
	GENERAL ITEMS				
E	Allow for submissions and samples as specified		Item		
F	Allow for spares to pass to client on completion		Item		
G	Allow for warranties as specified		Item		
	TILING				
H	Prices and rates for tiling shall be deemed to include all materials required for levelling and surface preparation and fixing, adhesives, glue, grout, spacers and sundries.		Note		

	Description	Qty	Unit	Rate	Amount
	FLOOR AND WALL TILING (Cont)				
	EXTERNAL FLOOR TILING				
	External Ceramic or Porcelain Tiling				
	Supply and Fix - 600mm x 600mm R13 slip rating Satin Finish; incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
A	To external deck areas; on concrete substrate to falls as indicated	19	m2		
B	to walls as 300 high skirting time	11	m		
	INTERNAL FLOOR TILING				
	Internal Ceramic or Porcelain Tiling				
	Supply and Fix - 300mm x 300mm Picadilly Ash Matt rectified edge glazed porcelain floor tile; R10 slip rating, incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
C	To internal wet area; on and incl. concrete substrate to falls and cross falls as indicated (Bathrooms, Showers, Cleaners)	79	m2		
D	To internal area; as indicated (Hallways, dry store, etc.)	95	m2		
	Sundries				
E	Approved transition strip (tile - carpet) :[4/0.9 3/1.2]	8	m		
	INTERNAL WALL TILING				
	Bathroom Walls				
	Supply and Fix wall tile; (type 1) incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
F	Tiling to bathroom walls	148	m2		

	Description	Qty	Unit	Rate	Amount
	FLOOR AND WALL TILING (Cont)				
	(Cont) INTERNAL WALL TILING				
	(Cont) Bathroom Walls				
	(Cont) Supply and Fix wall tile; (type 1) incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
A	Tiling to bathroom walls in narrow widths 0 - 150mm wide	10	m		
B	Tiling to PWD bathroom walls	23	m2		
	Shower Walls				
	Supply and Fix wall tile; (type 1) incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
C	Tiling to shower walls	32	m2		
	Cleaners Room Walls				
	Supply and Fix wall tile; (type 1) incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
D	Tiling to cleaners room walls	12	m2		
	Security Room				
	Supply and Fix wall tile; (type 1) incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
E	Tiling to WC skirting to security in narrow widths 0 - 150mm wide	6	m		
	Accessories				
F	External corner angle :[23/2.4]	56	m		

	Description	Qty	Unit	Rate	Amount
	FLOOR AND WALL TILING (Cont)				
	(Cont) INTERNAL WALL TILING				
	Kitchens and Security Kitchenette Splashbacks				
	Supply and fix wall tile (type 2) ; incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
A	Splashback 600mm high to kitchen counter bench on FC sheet substrate (Kitchen) :[10 m]	6	m2		
B	Splashback 150mm high to kitchen counter bench on FC sheet substrate (Kitchen) :[3 m]	1	m2		
	INTERNAL STAIR TILING				
	Internal Ceramic or Porcelain Tiling				
	Supply and Fix - 300mm x 300mm Picadilly Ash Matt rectified edge glazed porcelain floor tile; R10 slip rating, incl. levelling, adhesive; grouting with approved grout of selected colour all in accordance with manufacturer's recommendations to the following:				
C	To internal landing area	3	m2		
D	As skirting to landing	5	m		
E	Treads 200-300mm width	22	m		
F	Risers 100-200mm height	24	m		
G	Nosing tile	22	m		

Description	Qty	Unit	Rate	Amount
FLOOR AND WALL TILING (Cont)				
COLLECTION				
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FLOOR AND WALL TILING				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	JOINERY AND BENCHTOPS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	JOINERY AND BENCHTOPS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	GENERAL ITEMS				
G	Allow for shop drawings and approval process	1	Item		
H	Allow for Insurances	1	Item		
J	Allow for Storage and Protection on site	1	Item		

	Description	Qty	Unit	Rate	Amount
	JOINERY AND BENCHTOPS (Cont)				
	SUPPLY & INSTALL - FIXED JOINERY				
A	Stonework supply measured separately; all carcassing/supports deemed included in fixed joinery component		Note		
B	Prices deemed to include for Supply Only of all joinery carcase and finishing pamels and the like (In Flatpack Form) and also includes for hardware and fixings relating to fixed joinery		Note		
C	SUPPLY pricing to site is inclusive of all shipping, clearance, duties and taxes, delivered to site		Note		
	KITCHENS				
	Ground Floor Kitchen				
	Joinery - Refer to Joinery Detail in 800 series drawings and refer to finishes schedule for specific details				
D	Supply and Install - Overall approx. 1663mm long overall x 600mm wide x 900mm high bench joinery unit with double cupboard, microwave housing and single drawer under - Ground Floor Kitchen - Refer to Drwg 800-01(B)	1	No.		
E	Supply and Install - Overall approx. 1663mm long x 350mm wide x 600mm high over head cupboard in 3 equal bays with adjustable shelves - Ground Floor Kitchen - Refer to Drwg. 800-01(B)	1	No.		
F	Supply and Install - Overall approx. 850mm long x 350mm wide x 300mm high over head cupboard unit above fridge in 2 equal bays - Ground Floor Kitchen - Refer to Drwg. 800-01(B)	1	No.		
	Level 2 Kitchen				
G	Supply and Install - Overall approx. 3000mm long overall x 600mm wide x 900mm high bench joinery unit with double cupboard unit, 2 sets of underbench drawers and microwave housing and single drawer under - Ground Floor Kitchen - Refer to Drwg 800-01(B)	1	No.		

	Description	Qty	Unit	Rate	Amount
	JOINERY AND BENCHTOPS (Cont)				
	(Cont) KITCHENS				
	(Cont) Level 2 Kitchen				
A	Supply and Install - Overall approx. 3000mm long x 350mm wide x 600mm high over head cupboard in 5 equal bays with adjustable shelves - Ground Floor Kitchen - Refer to Drwg. 800-01(B)	1	No.		
B	Supply and Install - Overall approx. 850mm long x 350mm wide x 300mm high over head cupboard unit above fridge in 2 equal bays - Ground Floor Kitchen - Refer to Drwg. 800-01(B)	1	No.		
	GROUND FLOOR RECEPTION				
	Joinery - Refer to Joinery Detail in 800 series drawings and refer to finishes schedule for specific details				
	Reception Credenza				
C	Supply and Install - Overall approx. 2600mm long x 450mm wide x 900mm high credenza joinery unit with 3 x double cupboard unit under with adjustable shelves - Ground Floor Reception - Refer to Drwg 800-02(B)	1	No.		
	Reception Main Desk				
D	Supply and Install - Overall approx. 2800mm long x 1000mm overall wide x 1100mm overall high bench joinery unit with counter and stone detailing - Ground Floor Reception - Refer to Drwg 800-02(B)	1	No.		
	CASHIER				
	Joinery - Refer to Joinery Detail in 800 series drawings and refer to finishes schedule for specific details				
	Cashier Desk				
E	Supply and Install - Overall approx. 2560mm long x 650mm overall wide x 780mm overall high desk counter joinery unit with 600mm wide underbench drawer unit - Ground Floor Cashier - Refer to Drwg 800-03(B)	1	No.		

	Description	Qty	Unit	Rate	Amount
	JOINERY AND BENCHTOPS (Cont)				
	PLAN REGISTRY				
	Joinery - Refer to Joinery Detail in 800 series drawings and refer to finishes schedule for specific details				
	Shelf Unit				
A	Supply and Install - Overall approx. 4118mm long x 450mm overall wide x 2100mm overall high shelf joinery unit in 5 equal bays and with 3 adjustable shelves per bay - Upper Floor Plan Registry - Refer to Drwg 800-03(B)	1	No.		
	CONFERENCE ROOM CREDENZA				
	Joinery - Refer to Joinery Detail in 800 series drawings and refer to finishes schedule for specific details				
	Ground Floor - Conference Room Credenza				
B	Supply and Install - Overall approx. 3889mm long x 450mm wide x 900mm high credenza joinery unit with 5 x double cupboard unit under with adjustable shelves - Ground Floor Conference - Refer to Drwg 800-04(B)	1	No.		
	Upper Floor - Conference Room Credenza				
C	Supply and Install - Overall approx. 3423mm long x 450mm wide x 900mm high credenza joinery unit with 4 x double cupboard unit under with adjustable shelves - Upper Floor Conference - Refer to Drwg 800-04(B)	1	No.		
	SUPPLY ONLY - LAMINATED BENCHTOPS				
	Benchtops - Refer to Joinery Detail in 800 series drawings and refer to finishes schedule for specific details				
	Ground Floor Kitchen Benchtop				
D	Supply and Install - Overall approx. 1663mm long x 600mm wide benchtop with cutout for single bowl sink - Ground Floor Kitchen - Refer to Drwg 800-01(B)	1	No.		
E	Supply and Install - Overall approx. 2065mm long x 600mm wide counter benchtop - Ground Floor Kitchen - Refer to Drwg 800-01(B)	1	No.		

	Description	Qty	Unit	Rate	Amount
	JOINERY AND BENCHTOPS (Cont)				
	(Cont) SUPPLY ONLY - LAMINATED BENCHTOPS				
	Level 2 Kitchen Benchtop				
A	Supply and Install - Overall approx. 3000mm long x 600mm wide benchtop with cutout for single bowl sink - Upper Floor Kitchen - Refer to Drwg 800-01(B)	1	No.		
	Reception Credenza Benchtop				
B	Supply and Install - Overall approx. 2600mm long x 450mm wide benchtop - Ground Floor Reception - Refer to Drwg 801-01(B)	1	No.		
	Reception Benchtop				
C	Supply and Install Benchtop incl. with overall Joinery costs as integrated into returns etc.		Note		
	Cashier Desk				
D	Supply and Install - Overall approx. 2560mm long x 650mm overall wide benchtop - Ground Floor Cashier - Refer to Drwg 800-03(B)	1	No.		
	Conference Credenza Benchtop				
E	Supply and Install - Overall approx. 3889mm long x 450mm wide benchtop - Ground Floor Conference - Refer to Drwg 801-04(B)	1	No.		
F	Supply and Install - Overall approx. 3423mm long x 450mm wide benchtop - Upper Floor Conference - Refer to Drwg 801-04(B)	1	No.		
	SHIPPING AND LOGISTICS				
G	Allowance for shipping and packing from fabricator, etc. to Departure Port (Crates for Packing)	1	Item		
	BUILDERS WORK IN CONNECTION				
H	Allow for all noggins and supports for joinery etc. as required.	1	Item		

Description	Qty	Unit	Rate	Amount
JOINERY AND BENCHTOPS (Cont)				
COLLECTION				
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JOINERY AND BENCHTOPS				

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	Description	Qty	Unit	Rate	Amount
	SANITARYWARE & TAPWARE				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
				To Collection $	

	Description	Qty	Unit	Rate	Amount
	SANITARYWARE & TAPWARE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	GENERAL ITEMS				
G	Allow for inspections as specified	1	Item		
H	Allow for Storage and Protection on site	1	Item		
J	Allow for warranties as specified	1	Item		

	Description	Qty	Unit	Rate	Amount
	SANITARYWARE & TAPWARE (Cont)				
	SANITARY FIXTURES & TAPWARE				
	Approved Sanitary fixtures and tapware, supply and fit-off in accordance with the manufacturer's instructions ; including bracket, flush pipes, overflows; plugs and washers and similar items; including any connections or joints to piping etc.				
	Shower				
A	Caroma Liano Nexus Multifunctional Rail shower with overhead	2	No.		
B	Caroma Liano Shower Mixer	2	No.		
	PWD				
C	Caroma Liano Nexus Multifunctional Rail shower with overhead	1	No.		
D	Caroma Liano Shower Mixer	1	No.		
E	Caroma PWD basin set	1	No.		
F	Caroma PWD mixer tapset	1	No.		
G	Caroma PWD toilet suite complete with cistern	1	No.		
H	Hosecock tapset (Concealed) to WC	1	No.		
	Male / Female Bathrooms				
J	Caroma Tribute counter Basin Curved rectangled	4	No.		
K	Caroma Eco Chrome Bottle Trap	4	No.		
L	Caroma Liano Nexus Wall Basin Mixer kit	4	No.		
M	Caroma Liano wall Basin outlet	4	No.		
N	Caroma Urbane Cleanflush Wall faced Toilet Suite complete with cistern	6	No.		
P	Caroma Cleanflush Wall faced Urinal with sensor flush complete with cistern	2	No.		
Q	Hosecock tapset (Concealed) to WC and Utrinal	8	No.		

	Description	Qty	Unit	Rate	Amount
	SANITARYWARE & TAPWARE (Cont)				
	(Cont) SANITARY FIXTURES & TAPWARE				
	Kitchens				
A	'Clark' Punch Left Hand End Bowl (1 tap hole); Stainless steel 1000 x 500 x 180	2	No.		
B	Caroma Titan Sink Mixer	2	No.		
	Cleaners				
C	'Clark' Cleaners sink unit (1 tap hole); Stainless steel 500 x 500 x 300	2	No.		
D	Caroma Titan Sink Mixer	2	No.		
	External				
E	External Hosecock tapset	4	No.		
	Security				
F	Caroma Tribute counter Basin Curved rectangled	1	No.		
G	Caroma Eco Chrome Bottle Trap	1	No.		
H	Caroma Liano Nexus Wall Basin Mixer kit	1	No.		
J	Caroma Liano wall Basin outlet	1	No.		
K	Caroma Urbane Cleanflush Wall faced Toilet Suite complete with cistern	1	No.		
L	Hosecock tapset (Concealed) to WC and Utrinal	1	No.		
M	'Clark' Punch Left Hand End Bowl (1 tap hole); Stainless steel 1000 x 500 x 180	1	No.		
N	Caroma Titan Sink Mixer	1	No.		

Description	Qty	Unit	Rate	Amount
SANITARYWARE & TAPWARE (Cont)				
COLLECTION				
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SANITARYWARE & TAPWARE				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	FITMENTS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	FITMENTS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	GENERAL ITEMS				
G	Allow for warranties		Item		
H	Allow for all noggins and supports to walls or ceilings or floor etc. as required		Item		
	SANITARY FIXTURES				
J	Allow for all noggins and supports to walls etc. as required		Note		

	Description	Qty	Unit	Rate	Amount
	FITMENTS (Cont)				
	(Cont) SANITARY FIXTURES				
A	FT.06 - Caroma Liano Toilet Roll holder 96124C		No.		
B	FT.10 - Caroma single towel rail 96120C		No.		
C	FT.11 - Caroma Liano Robe Hook 96125C		No.		
D	FT.12 - Caroma Cosmo metal hand towel rail		No.		
	Shower				
E	Caroma Liano Soap Holder	2	No.		
F	Caroma Liano towel rail (900)	2	No.		
G	Caroma Liano coat hook (Bump stop)	4	No.		
	PWD				
H	Handicapped grab rail set to shower	1	No.		
J	Handicapped grab rail set to WC	1	No.		
K	Handicapped Shower seat	1	No.		
L	Caroma Liano Toilet Roll holder	1	No.		
M	Caroma Liano Soap Holder	1	No.		
N	Caroma Liano towel rail (900)	1	No.		
P	Caroma Liano coat hook (Bump stop)	1	No.		
Q	Caroma Liano hand towel ring	1	No.		
R	Britex (Rubbish bin)	1	No.		
	Male / Female Bathrooms				
S	Caroma Liano Toilet Roll holder	6	No.		
T	Britex (Soap dispenser)	4	No.		
U	Britex (Paper towel dispenser)	4	No.		
V	Britex (Rubbish bin)	4	No.		
	Kitchens				
W	Caroma Liano hand towel ring	2	No.		

	Description	Qty	Unit	Rate	Amount
	FITMENTS (Cont)				
	(Cont) SANITARY FIXTURES				
	(Cont) Kitchens				
A	Britex (Rubbish bin)	2	No.		
	Cleaners				
B	Caroma Liano hand towel ring	2	No.		
C	'Clark' Mop holders and rack	2	No.		
D	Britex (Rubbish bin)	2	No.		
	Security				
E	Caroma Liano Toilet Roll holder	1	No.		
F	Britex (Soap dispenser)	1	No.		
G	Britex (Paper towel dispenser)	1	No.		
H	Britex (Rubbish bin)	1	No.		
J	Caroma Liano hand towel ring	1	No.		
	MIRRORS				
	Bathroom mirrors, silver finish, supplied and fixed as per the manufacturers instructions				
	PWD Bathroom				
K	1000 x 1000	1	No.		
	Bathrooms				
L	1000 x 1000	4	No.		
	Security Bathroom				
M	1000 x 1000	1	No.		

Description	Qty	Unit	Rate	Amount
FITMENTS (Cont)				
COLLECTION				
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Page No. 27/4				
FITMENTS				

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	Description	Qty	Unit	Rate	Amount
	PAINTING				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	PAINTING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices shall be deemed to include : the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, removing and replacing door and window furniture and removing splash and spray marks'.		Note		
C	Measurement and prices for painting shall be deemed to include for thinnings, the use of various colours and tints, cutting in at angles between different colours or finishes, for making good and touching up after other trades and for leaving the whole of the painting in a first class condition on completion.		Note		
D	Prices for painting shall include for selected colours throughout		Note		
E	Prices for painting pipes and the like shall be deemed to include for painting cover plates, all fittings, valves, cocks and the like, all hangers and associated clips, straps, brackets, and similar fixings		Note		
F	The term 'prepare' where used to described individual paint finishes shall include for all necessary preparatory work including cleaning down, patching concrete surfaces, smoothing, burning off, stripping, knotting, spot priming, stopping, rubbing down, etc prior to the application of priming or sealing coats and for all necessary work between successive coats of paint.		Note		
	ALTERNATIVES/ OPTIONS				
G	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		

	Description	Qty	Unit	Rate	Amount
	PAINTING (Cont)				
	(Cont) ALTERNATIVES/ OPTIONS				
A	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
B	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
C	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
D	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
E	METALWORK'- Painting to metal sunscreens and awnings is included within the metalwork items		Note		
F	JOINERY' - finishes of associated with joinery items		Note		
G	HYDRAULIC SERVICES' - associated painting as required by the particular scope stated in the specification		Note		
H	MECHANICAL SERVICES' - associated painting as required by the particular scope stated in the specification		Note		
J	ELECTRICAL SERVICES' - associated painting as required by the particular scope stated in the specification		Note		
K	FIRE SERVICES' - associated painting as required by the particular scope stated in the specification		Note		

	Description	Qty	Unit	Rate	Amount
	PAINTING (Cont)				
	GENERAL ITEMS				
A	Allow for inspections as specified		Item		
B	Allow for submissions as specified		Item		
C	Allow for warranties as specified		Item		
D	Allow for spares as specified		Item		
E	Allow for providing sample finishes, colours and similar work as specified		Item		
	PAINT - INTERNAL				
	Internal Walls; Dulux White Duck AS216 wash and wear Semi Gloss (finishes ref FN.01)				
F	To plasterboard walls and bulkheads		m2		
	Internal Ceilings; Dulux wash and wear Semi Gloss (finishes ref FN.02)				
G	To plasterboard and FC lined ceilings (incl. cornices)		m2		
	Woodwork Painting; Dulux White Duck (ref FN.01)				
	Internal Doors				
H	820 x 2040 solid core flush panel door		No.		
J	570 x 2040 solid core flush panel door		No.		
	Timber trims				
K	Architrave; 42mm MR MDF		m		
L	Skirting: 90mm MR MDF		m		
	Steel Painting - Prime and 2 coat system				
	Steel Door Frames; (internal door frames)				
M	Frame 0 - 250mm wide	153	m		

	Description	Qty	Unit	Rate	Amount
	PAINTING (Cont)				
	PAINT - EXTERNAL				
	External Walls, Fascia & Soffits; Dulux Weathershield Low Sheen (finishes ref FN.04-01/02)				
	Rendered Walls				
A	Generally to areas exceeding 300 wide	226	m2		
B	To narrow widths not exceeding 300 wide	88	m		
	Fibre Cement Cladding				
C	To Scyon Axon cladding	202	m2		
D	To other FC lined areas (soffits etc. - assumed)	88	m2		
	Steel Painting - Prime and 2 coat system				
	Structural members				
E	To steel SHS/RHS		m2		
	Woodwork Painting; Dulux White Duck (ref FN.01)				
	External Doors - Timber framed door leaf with glazed lights [Refer to 1.1-720-01[A] - Door Schedule & Details]				
F	900 x 2040 single swing glazed door with 650 x 2400 timber louvered sidelight window (DT02)		No.		
G	820 x 2340 single swing glazed door (DT03)		No.		
	External Doors - Solid core timber doors; moisture resistant MDF [Refer to 1.1-720-01[A] - Door Schedule & Details]				
H	820 x 2340 single swing solid core flush panel door (DT04)		No.		
J	820 x 2040 single swing solid core flush panel (DT05)		No.		

	Description	Qty	Unit	Rate	Amount
	PAINTING (Cont)				
	(Cont) PAINT - EXTERNAL				
	(Cont) External Doors - Solid core timber doors; moisture resistant MDF [Refer to 1.1-720-01[A] - Door Schedule & Details]				
	Steel Painting - Prime and 2 coat system				
	Steel Door Frames; galvanized (external door frames)				
A	Frame to 820 x 2340mm high overall (DT03)		No.		
B	Frame to 820 x 2340mm high overall (DT04)		No.		
C	Frame to 820 x 2040mm high overall (DT05)		No.		
D	Frame to 820 x 2040mm high overall (DT02)		No.		

Description	Qty	Unit	Rate	Amount
PAINTING (Cont)				
COLLECTION				
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PAINTING				

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	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices deemed to include for: sockets, running joints, connectors, back nuts, nipples, connections, incidental fittings, clips, saddles, brackets ie., including straps, hangers, screws, nails, explosive and low velocity tool fasteners and other metal fastening anchors and/or systems and fixing complete including cutting and forming holes, supplying and building in sleeves (other than fire-rated)'.		Note		
C	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
D	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
E	The prices for piping less than 32mm nominal dia. shall be deemed to include for all expansion fittings, bends, junctions, inspection openings, reducers and similar fittings; separating all dissimilar metals with an approved isolating medium.		Note		
F	The prices for piping shall generally include for expansion fittings; separating all dissimilar metals with an approved isolating medium		Note		
G	Unless otherwise described items described as `pipe' are pipes `fixed to walls, framing, etc.'		Note		

	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Pipes `fixed to walls, framing, etc.' shall be deemed to include pipes in joinery fittings, ducts, ceiling spaces, roof spaces, cavities of hollow walls, cavities of steel framed partitions and cores of hollow block walls, pipes above roof and pipes fixed to metal or steel.		Note		
B	Prices for clipping pipes shall be deemed to include for acoustic insulation between pipe support and pipe as specified		Note		
C	Prices for pipes described as 'chasing' shall be deemed to include for forming or cutting chases in the structure and making good.		Note		
D	Prices for c.p. pipes and fittings shall be deemed to include for sub assembly prior to plating, dismantling and final assembly after plating and protection with approved coatings and removal of same on completion		Note		
E	Prices for valves, cocks, sanitary fixtures, taps etc. shall be deemed to include for all unions, leads up to 1 metre long, ferrules etc., jointing to services including any flanges, etc., for anti-tampering or vandal proof devices where available and for signage/belling as required		Note		
F	Prices for pipe lagging shall be deemed to include for neatly cutting and dressing around bends, junctions, valves, etc.		Note		
G	Prices for traps, floor wastes, tundishes, and the like shall include for jointing to waste pipes and fittings		Note		
H	Prices for traps, floor wastes, tundishes, and general pipework penetrating slabs, walls and the like shall also include for the required flange plate of any finish to match the associated pipe		Note		
J	Prices for fixtures, appliances and equipment shall also include brackets, flush pipes, overflows, plugs and washers, and similar items where described.		Note		

	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for pipes described as `in trench' shall be deemed to include for excavating in whatever material is found, levelling or grading and ramming or scabbling bottoms of trenches, forming handholes and pockets where required for jointing pipes and for sockets of pipes, maintaining faces of excavation, including all additional excavation required for same, keeping excavations free from debris and falling materials, bedding pipes and drains on approved bedding material, backfilling as required above top of pipe with bedding material, and backfilling remainder of trench as specified, provide sleeves and flexible joint assemblies as detailed where pipes pass through foundations, anchor or thrust blocks, consolidating and disposal of surplus excavated material, detectable identification strip or tape and protective wrapping		Note		
B	Junctions have been given with the straight through opening sizes first and the branch opening last. reducers or bends which may be required to the ends or branches of the junctions to form the size of junctions described have NOT been scheduled separately and prices for junctions shall include for these as necessary.		Note		
C	All bends and junctions on soil and waste pipes, with the exception of junctions for ventilating pipes have been measured with inspection openings		Note		
	ALTERNATIVES/ OPTIONS				
D	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
E	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
F	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		

	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING (Cont)				
	TAXES AND RELATED CHARGES				
A	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
B	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
C	CIVILS & DRAINAGE: - External civil stormwater drainage and external sewer drainage		Note		
D	ROOFING: - Supply and installation of Roof Plumbing and External Downpipes		Note		
	GENERAL ITEMS				
E	Allow for compliance with statutory requirements as specified including relevant Acts, By-Laws, Regulations and Works by Authority as required		Item		
F	Allow for authority approvals as required		Item		
G	Allow for 'as-constructed' or record drawings		Item		
H	Allow for testing all installations as specified		Item		
J	Allow for inspections as specified		Item		
K	Allow for sterilizing installations as required		Item		
L	Allow for submitting operation and maintenance records as required		Item		
M	Allow for all guarantees and warranties		Item		

	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for marking pipes with colour bands, tags, plates, badges or lettering for identification purposes, or with arrows for indicating directions of flow for each type of installation		Item		
B	Allow for providing Operatorion Training and Maintenance Manuals as specified		Item		
C	Allow for chrome plating to pipework where required		Item		
D	Allow for insulating all pipework, floor gulleys, etc. receiving condensate waste		Item		
E	Allow for acoustic insulation to pipework as required		Item		
	SANITARY PLUMBING				
	uPVC pipes and fittings to Class DWV to AS/NZS 2160 with solvent welded joints and fire collars and insulation where specified, to comply with all relevant statutory requirements, drawings and specifications				
F	40 mm pipe fixed to walls / framing		m		
G	50 mm pipe fixed to walls / framing		m		
H	100 mm pipe fixed to walls / framing		m		
J	40 mm pipe suspended from soffits, etc.		m		
K	50 mm pipe suspended from soffits, etc.		m		
L	65 mm pipe suspended from soffits, etc.		m		
M	100 mm pipe suspended from soffits, etc.		m		
	Fittings				
N	50 mm vent cowl including flashings		No.		
P	40 mm bend		No.		
Q	50 mm bend		No.		
R	65 mm bend		No.		
S	100 mm bend		No.		

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	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING (Cont)				
	(Cont) SANITARY PLUMBING				
	(Cont) Fittings				
A	100 x 100 x 50 mm junction		No.		
B	100 x 100 x 65 mm junction		No.		
C	100 x 100 x 100 mm Junction		No.		
	Traps				
D	40 mm P Trap		No.		
E	50 mm P Trap		No.		
	Floor waste/shower grated drains; including any necessary connections or joints to piping and fixtures, appliances or equipment all as specified				
F	900mm long x 200mm wide approx. shower grated drains; including traps and connections (SHR/GD)		No.		
G	130 x 130mm Stormtech Tile Insert Drain SQ100Ti20-80 or equal approved floor waste gullies including traps and connections (FWG)		No.		
	Tundishes				
H	Mech AC/ITD with 40dia trap and 65dia waste		No.		
J	Untrapped Mech AC/ITD with 50dia waste		No.		
	SANITARY FIXTURES (FIX ONLY)				
K	Prices for Fix Only - Sanitary Fixtures shall be deemed to include for additional material and jointing compound for and accuratly assembling all component parts in their correct location, jointing to services and wastes including special pan connectors, motar joints, unions, etc., and fixing to floors and walls with brackets, bolts, screws, etc.		Note		

	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING (Cont)				
	(Cont) SANITARY FIXTURES (FIX ONLY)				
	FIX sanitary fixtures in accordance with the manufacturer's instructions; including bracket, flush pipes, overflows; plugs and washers and similar items; including any connections or joints to piping etc.				
A	Fix Only - FT.01 - Caroma Liano Nexus Multifunctional Rail shower with overhead 91056C3A (bath and ensuite)		No.		
B	Fix Only - FT.02 - Caroma Liano bath /Shower Mixer 96130C (bath and ensuite)		No.		
C	Fix Only - FT.03 - Caroma Tribute counter Basin Curved rectangled 874900W (bath and ensuite)		No.		
D	Fix Only - FT.03 - Caroma Eco Chrome Bottle Trap 687295c (bath and ensuite)		No.		
E	Fix Only - FT.04 - Caroma Liano Nexus Wall Basin / Bath Mixture Placement kit - 96164C (bath and ensuite)		No.		
F	Fix Only - FT.04 - Caroma Liano wall Basin outlet 90337C (bath and ensuite)		No.		
G	Fix Only - FT.05 - Caroma Urbane Cleanflush Wall faced Toilet Suite -746300W (bath, ensuite and powder)		No.		
H	Fix Only - FT.13 - Caroma Liano Hand wall Basin (powder)		No.		
J	Fix Only - FT.14 - Caroma Liano Basin Mixer 96142C5A (powder)		No.		
K	Fix Only - FT.22 - Caroma Luna 45L Laundry Tub (laundry)		No.		
L	Fix Only - FT.23 - Caroma Liano Sink Mixer (laundry)		No.		
M	Fix Only - FT.24 - Caroma Luna Level washing Machine tap set (laundry)		No.		
N	Fix Only - FT.20 - Clark Punch Left Hand End Bowl (1 tap hole); Stainless steel 1000 x 500 x 180 (kitchen)		No.		

	Description	Qty	Unit	Rate	Amount
	SANITARY PLUMBING (Cont)				
	(Cont) SANITARY FIXTURES (FIX ONLY)				
	(Cont) FIX sanitary fixtures in accordance with the manufacturer's instructions; including bracket, flush pipes, overflows; plugs and washers and similar items; including any connections or joints to piping etc.				
A	Fix Only - FT.21 - Caroma Titan Sink Mixer (kitchen)		No.		

Description	Qty	Unit	Rate	Amount
SANITARY PLUMBING (Cont)				
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SANITARY PLUMBING				

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	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices deemed to include for: sockets, running joints, connectors, back nuts, nipples, connections, incidental fittings, clips, saddles, brackets ie., including straps, hangers, screws, nails, explosive and low velocity tool fasteners and other metal fastening anchors and/or systems and fixing complete including cutting and forming holes, supplying and building in sleeves (other than fire-rated)'.		Note		
C	The prices for piping shall generally include for expansion fittings; separating all dissimilar metals with an approved isolating medium		Note		
D	Unless otherwise described items described as `pipe' are pipes `fixed to walls, framing, etc.'		Note		
E	Pipes `fixed to walls, framing, etc.' shall be deemed to include pipes in joinery fittings, ducts, ceiling spaces, roof spaces, cavities of hollow walls, cavities of steel framed partitions and cores of hollow block walls, pipes above roof and pipes fixed to metal or steel.		Note		
F	Prices for clipping pipes shall be deemed to include for acoustic insulation between pipe support and pipe as specified		Note		
G	Prices for pipes described as 'chasing' shall be deemed to include for forming or cutting chases in the structure and making good.		Note		
H	Prices for pipe lagging shall be deemed to include for neatly cutting and dressing around bends, junctions, valves, etc.		Note		

	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for pipes described as `in trench' shall be deemed to include for excavating in whatever material is found, levelling or grading and ramming or scabbling bottoms of trenches, forming handholes and pockets where required for jointing pipes and for sockets of pipes, maintaining faces of excavation, including all additional excavation required for same, keeping excavations free from debris and falling materials, bedding pipes and drains on approved bedding material, backfilling as required above top of pipe with bedding material, and backfilling remainder of trench as specified, provide sleeves and flexible joint assemblies as detailed where pipes pass through foundations, anchor or thrust blocks, consolidating and disposal of surplus excavated material, detectable identification strip or tape and protective wrapping		Note		
B	Junctions have been given with the straight through opening sizes first and the branch opening last. reducers or bends which may be required to the ends or branches of the junctions to form the size of junctions described have NOT been scheduled separately and prices for junctions shall include for these as necessary.		Note		
	ALTERNATIVES/ OPTIONS				
C	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
D	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
E	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		

To Collection $

	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE (Cont)				
	TAXES AND RELATED CHARGES				
A	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
B	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
C	CIVILS & DRAINAGE: - External civil stormwater drainage and external sewer drainage		Note		
D	ROOFING: - Supply and installation of Roof Plumbing and External Downpipes		Note		
	GENERAL ITEMS				
E	Allow for compliance with statutory requirements as specified including relevant Acts, By-Laws, Regulations and Works by Authority as required		Item		
F	Allow for paying all fees		Item		
G	Allow for 'as-constructed' or record drawings		Item		
H	Allow for testing all installations as specified		Item		
J	Allow for inspections as specified		Item		
K	Allow for keeping excavation free from rain and percolating water by pumping or otherwise		Item		
L	Allow for testing and commissioning the installations and equipment as specified		Item		
M	Allow for sterilizing installations as required		Item		
N	Allow for providing samples as specified		Item		

	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for submissions as specified		Item		
B	Allow for submitting operation and maintenance records as specified		Item		
C	Allow for all guarantees and warranties as specified		Item		
D	Allow for flushing of installations as specified		Item		
E	Allow for authorities approvals as specified		Item		
F	Allow for giving notices, obtaining permits, paying fees, obtaining certificates of satisfactory completion issued by a local authority where required and similar, in connection with the installations		Item		
G	Allow for marking pipes with colour bands, tags, plates, badges or lettering for identification purposes, or with arrows for indicating directions of flow for each type of installation		Item		
H	Allow for providing shop drawings as specified		Item		
J	Allow for providing Operatorion Training and Maintenance Manuals as specified		Item		
K	Allow for fire rated pipe sleeves, fire collars and similar		Item		
	SEPTIC TANK				
	Concrete septic tank to requirements constructed on site				
L	2500 litre capacity septic tank, 3000mm long x 1000mm wide x 2000mm deep to carpark zone and all in accordance with standard MID details etc.	1	No.		

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	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE (Cont)				
	SANITARY DRAINAGE				
	Upper Site Sewer Drainage to Civil Sewer Drainage				
	uPVC pipes and fittings to Class DWV to AS/NZS 2160 with solvent welded joints to comply with all relevant statutory requirements, drawings and specifications				
A	100mm pipe set vertically in trench		m		
B	100mm pipe in trench not exceeding 2m total depth		m		
C	150mm pipe set vertically in trench		m		
D	150mm pipe in trench not exceeding 2m total depth		m		
E	Connection to civil sewer stub/manhole		No.		
	Fittings				
F	100mm bend		No.		
G	150mm bend		No.		
H	100 x 100 x 100mm Tee or Y Junction		No.		
J	150 x 150 x 150mm Tee or Y Junction		No.		
K	150mm Single Expansion Joint (SEJ)		No.		
L	100mm clear out to surface (COS)		No.		
M	100mm jump up		No.		
N	150mm clear out to surface (COS)		No.		
P	150mm jump up		No.		
Q	100 to 150mm reducer		No.		
R	150mm inspection opening		No.		

	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE (Cont)				
	(Cont) Upper Site Sewer Drainage to Civil Sewer Drainage				
	Manholes				
	In-situ reinforced concrete sewer manholes connected to pipework; Excavate, level and compact bottom of excavation; including necessary working space; 50mm thick sand blinding; 250m thick base incl/ channels/benching and walls incl. formwork as required; step irons and frame/lid, back filling around with hardfill or excavated material. As per typical details on C802.				
A	1200 diameter sewer manhole; not exceeding 2m deep.		No.		
	uPVC pipes and fittings to Class DWV to AS/NZS 2160 with solvent welded joints and fire collars and insulation where specified, to comply with all relevant statutory requirements, drawings and specifications				
B	50mm pipe set vertically in trench/dropper		m		
C	100mm pipe set vertically in trench/dropper		m		
D	50mm pipe in trench up to 1m total depth		m		
E	100mm pipe in trench up to 1m total depth		m		
	Fittings				
F	50mm bends		No.		
G	Frog flap to 50mm discharge (outlet of mech tundish to SW pit)		No.		
H	100 mm bend		No.		
J	100 x 100 x 100mm Tee or Y Junction		No.		
K	Single Expansion Joint (SEJ)		No.		
L	100mm clear out to surface (COS)		No.		
	Gullys				
M	Overflow relief gully (ORG) including trap, grating and raised concrete surface		No.		

	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE (Cont)				
	(Cont) Upper Site Sewer Drainage to Civil Sewer Drainage				
	(Cont) Manholes				
	Traps				
A	100 mm P Trap		No.		
	Tundishes				
B	Mech AC/ITD with 50dia trap and 50dia waste (ground level external - drying area)		No.		
	STORMWATER DRAINAGE				
C	Refer site plan H103 - NOTE 1: CONTRACTOR TO LOCATE & CONNECT TO THE CIVIL SW PIT & RUN A Ø150 uPVC SW RAIN @ 1.00% GRADE UNLESS NOTED OTHERWISE AS SHOWN. CONTRACTOR TO LIAISE WITH CIVIL CONTRACTOR WHEN ON-SITE		Note		
D	Downpipes measured in ROOFING trade section		Note		
	uPVC pipework and fittings with joints as specified laid in trench including excavation in material as found, bedding and backfilling on completion all in accordance with the specification and drawings				
E	150mm pipework; not exceeding 1m deep		m		
	Fittings				
F	150mm bend		No.		
G	150 x 150 x 150mm junction		No.		
	Stormwater Pits				
H	SWP-1: Everhard industries series 450s stormwater pit installed with a 'Class b' with galvanised grate model number: 80073 or approved Equal. Stormwater pit to be installed to the manufacturers recommendations & requirements. 565mm W x 565mm L x 385mm D		No.		

	Description	Qty	Unit	Rate	Amount
	SEWER AND STORMWATER DRAINAGE (Cont)				
	(Cont) STORMWATER DRAINAGE				
	(Cont) Stormwater Pits				
A	SWP-2: Everhard industries series 300s stormwater pit installed with a 'Class b' with galvanised grate model number: 80071 or approved equal. Stormwater pit to be installed to the manufacturers recommendations & requirements. 357mm W x 357mm L x 326mm D		No.		
	Suspended Ramp Slab Drainage				
B	Refer Apartments Drainage Layout - H200		Note		
	Trench Grate				
C	Gatic "Class D" Ductile Iron Trench Grate Model or GM321T4512D equal approved		m		
	uPVC pipework and fittings with joints as specified laid in trench including excavation in material as found, bedding and backfilling on completion all in accordance with the specification and drawings				
D	150mm outlet/connection from trench drain		No.		
E	150mm pipework; in trenches not exceeding 1m deep		m		
F	150mm pipework; suspended from underside of ramp slab		m		
	Fittings				
G	150mm bend		No.		
H	150 x 150 x 150mm junction		No.		
	Headwall				
J	Concrete headwall for 150mm discharge to existing retention area		No.		

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Description	Qty	Unit	Rate	Amount
SEWER AND STORMWATER DRAINAGE (Cont)				
COLLECTION				
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SEWER AND STORMWATER DRAINAGE				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices deemed to include for: sockets, running joints, connectors, back nuts, nipples, connections, incidental fittings, clips, saddles, brackets ie., including straps, hangers, screws, nails, explosive and low velocity tool fasteners and other metal fastening anchors and/or systems and fixing complete including cutting and forming holes, supplying and building in sleeves (other than fire-rated)'.		Note		
C	The prices for piping less than 32mm nominal dia. shall be deemed to include for all expansion fittings, bends, junctions, inspection openings, reducers and similar fittings; separating all dissimilar metals with an approved isolating medium.		Note		
D	The prices for piping shall generally include for expansion fittings; separating all dissimilar metals with an approved isolating medium		Note		
E	Unless otherwise described items described as `pipe' are pipes `fixed to walls, framing, etc.'		Note		
F	Pipes `fixed to walls, framing, etc.' shall be deemed to include pipes in joinery fittings, ducts, ceiling spaces, roof spaces, cavities of hollow walls, cavities of steel framed partitions and cores of hollow block walls, pipes above roof and pipes fixed to metal or steel.		Note		
G	Prices for clipping pipes shall be deemed to include for acoustic insulation between pipe support and pipe as specified		Note		
H	Prices for pipes described as 'chasing' shall be deemed to include for forming or cutting chases in the structure and making good.		Note		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for c.p. pipes and fittings shall be deemed to include for sub assembly prior to plating, dismantling and final assembly after plating and protection with approved coatings and removal of same on completion		Note		
B	Prices for valves, cocks, sanitary fixtures, taps etc. shall be deemed to include for all unions, leads up to 1 metre long, ferrules etc., jointing to services including any flanges, etc., for anti-tampering or vandal proof devices where available and for signage/belling as required		Note		
C	Prices for pipe lagging shall be deemed to include for neatly cutting and dressing around bends, junctions, valves, etc.		Note		
D	Prices for fixtures, appliances and equipment shall also include brackets, flush pipes, overflows, plugs and washers, and similar items where described.		Note		
E	Prices for pipes described as `in trench' shall be deemed to include for excavating in whatever material is found, levelling or grading and ramming or scabbling bottoms of trenches, forming handholes and pockets where required for jointing pipes and for sockets of pipes, maintaining faces of excavation, including all additional excavation required for same, keeping excavations free from debris and falling materials, bedding pipes and drains on approved bedding material, backfilling as required above top of pipe with bedding material, and backfilling remainder of trench as specified, provide sleeves and flexible joint assemblies as detailed where pipes pass through foundations, anchor or thrust blocks, consolidating and disposal of surplus excavated material, detectable identification strip or tape and protective wrapping		Note		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Junctions have been given with the straight through opening sizes first and the branch opening last. reducers or bends which may be required to the ends or branches of the junctions to form the size of junctions described have NOT been scheduled separately and prices for junctions shall include for these as necessary.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
G	CIVILS & DRAINAGE: - External civil stormwater drainage and external sewer drainage		Note		
H	ROOFING: - Supply and installation of Roof Plumbing and External Downpipes		Note		

To Collection $

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	GENERAL ITEMS				
A	Allow for compliance with statutory requirements as specified including relevant Acts, By-Laws, Regulations and Works by Authority as required		Item		
B	Allow for paying all fees		Item		
C	Allow for 'as-constructed' or record drawings		Item		
D	Allow for testing all installations as specified		Item		
E	Allow for inspections as specified		Item		
F	Allow for keeping excavation free from rain and percolating water by pumping or otherwise		Item		
G	Allow for testing and commissioning the installations and equipment as specified		Item		
H	Allow for sterilizing installations as required		Item		
J	Allow for providing samples as specified		Item		
K	Allow for submissions as specified		Item		
L	Allow for submitting operation and maintenance records as specified		Item		
M	Allow for all guarantees and warranties as specified		Item		
N	Allow for flushing of installations as specified		Item		
P	Allow for authorities approvals as specified		Item		
Q	Allow for giving notices, obtaining permits, paying fees, obtaining certificates of satisfactory completion issued by a local authority where required and similar, in connection with the installations		Item		
R	Allow for marking pipes with colour bands, tags, plates, badges or lettering for identification purposes, or with arrows for indicating directions of flow for each type of installation		Item		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for providing shop drawings as specified		Item		
B	Allow for providing Operatorion Training and Maintenance Manuals as specified		Item		
C	Allow for training as specified		Item		
D	Allow for maintenance as specified		Item		
E	Allow for photographic records as specified		Item		
F	Allow for spares as specified		Item		
G	Allow for chrome plating to pipework where required		Item		
H	Allow for fire rated pipe sleeves, fire collars and similar		Item		
J	Allow for insulating all pipework, floor gulleys, etc. receiving condensate waste		Item		
K	Allow for acoustic insulation to pipework as specified		Item		
L	Allow for services connections as specified		Item		
M	Allow for all necessary painting		Item		
	COLD WATER SERVICES				
	Upper Site Reticulation				
	Mains Connection				
N	63mm PN16 HDPE connection to existing main; including locating and cutting into existing pipework, all necessary excavation, backfilling, fittings, any additional pipework etc.; including breaking out existing paving/road and reinstating on completion including all costs associated with connection fees and local authority costs for connections		No.		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) COLD WATER SERVICES				
	(Cont) Upper Site Reticulation				
	PN16 high density polyethylene (HDPE) pipe and associated fittings with joints as specified to comply with all relevant statutory requirements laid in trench including excavating in material as found, bedding, back filling, including bracket system where required, identification tape, marker plates etc. on completion as per the drawings and specifications				
	Pipework Including all bends, junctions, fittings as required.				
A	20mm pipe in trenches (to Hose Taps)		m		
B	32mm pipe in trenches (incoming to unit sub-meters)		m		
C	25mm dia. pipe in trench	11	m		
D	40mm dia. pipe in trench	30	m		
E	40mm dia. bend	9	No.		
F	40mm pipe vertically to wall	7	m		
G	40mm pipe in ceiling	13	m		
H	25 x 25 x 40mm tee	1	No.		
J	40 x 40 x 25mm tee	4	No.		
K	40 x 25 x 40mm tee	1	No.		
L	32mm dia. bend	4	No.		
M	63mm pipe in trenches		m		
N	90mm pipe in trenches		m		
P	Connection/termination at townhouse and community centre sub meters		No.		
	Valves, including valve boxes				
Q	50mm in ground stop valve in cast iron valve box		No		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) COLD WATER SERVICES				
	Hose Taps				
A	Hose tap with vacuum breaker to suit 20mm pipe as specified		No.		
	Copper pipes and fittings to AS 1432 Type B, with approved joints; to comply with all relevant statutory requirements, drawings and specifications				
B	15mm dia. pipe in wall	49	m		
C	15mm dia. pipe in ceiling space	27	m		
D	20mm dia. pipe in ceiling space	18	m		
E	25mm dia. pipe in ceiling space	36	m		
F	32mm dia. pipe in ceiling space	11	m		
G	20mm pipe pipe exposed externally; fixed to walls/slab (including bends and fittings)		m		
H	Connection/termination at guardhouse sub meter		No.		
J	25mm pipe exposed externally; fixed to walls or tanks (including bends and fittings)		m		
K	50mm pipe exposed externally; fixed to walls or tanks		m		
L	50mm pipe exposed externally; fixed to suspended slab soffit or over slab		m		
	Fittings				
M	!5mm dia. outlet to shower with control valve	2	No.		
N	25 x 25 x 15 dia. tee	1	No.		
P	15mm dia. gate valve	2	No.		
Q	20mm dia. gate valve	2	No.		
R	25mm dia. gate valve	4	No.		
S	15mm dia. zip boiler connection	2	No.		
T	15mm dia. hose cock	2	No.		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) COLD WATER SERVICES				
	(Cont) Fittings				
A	50mm bends		No.		
B	25 x 50 x 25 Tee		No.		
C	50 x 50 x 50 Tee		No.		
D	50 x -20mm reducer		No.		
E	50m copper to 90mm PN16 HDPE		No.		
	Valves, including valve boxes				
F	25mm isolation valve		No.		
G	50mm isolation valve		No.		
H	50mm check valve		No.		
J	50mm stop valve and control valve in cast iron valve box for emergency tank bypass		No.		
	Pump assemblies				
K	Lowara vertical multi-stage 3 phase pumps with a Duty of 4l/s @ 400kpa (40mh) or approved equal. Vertical multi-stage pumps to be installed to the Manufacturers recommendations & requirements. Including all necessary short lengths of pipe, fittings, valves, bypasses, alarms, equipment etc. which constitutes the assembly		No.		
	Copper pipes and fittings to AS 1432 Type B, with approved joints; to comply with all relevant statutory requirements, drawings and specifications				
L	Including all bends, junctions, fittings and lagging where necessary		Note		
M	20mm pipe fixed to walls / framing		m		
N	20mm diameter pipe suspended from soffits, etc.		m		
	Valves, including valve boxes				
P	Isolation valve assembly to suit 20mm pipe		No.		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) Pump assemblies				
	Hose Taps				
A	Hose tap with vacuum breaker to suit 20mm pipe as specified		No.		
	HOT WATER SERVICES				
	Copper pipes and fittings to AS 1432 Type B, with approved joints; including lagging /insulation to comply with all relevant statutory requirements, drawings and specifications				
B	Including all bends, junctions, fittings and lagging as specified		Note		
C	Including HW and WW		Note		
D	15mm pipe fixed to walls / framing		m		
E	15mm diameter pipe suspended from soffits, fixed to roof etc.		m		
	Valves, including valve boxes				
F	Tempering Valve		No.		
	Hot Water Units				
G	HWU-01: Stiebel Eltron 220l hot water heat pump Model number: WWK 222 or approved equal. Stiebel Eltron to be installed to the manufacturer's recommendations & requirements. Including all connections, pipework, valves, hoses, pumps, assemblies, etc.		No.		
	WATER METERS				
	Upper Site Reticulation				
H	40mm dia potable site master water meter assembly; including all valves, fittings and unions, any connections or jointing to piping etc.; all in accordance with the hydraulics drawings and specification. Including all local authority charges.	1	No.		

	Description	Qty	Unit	Rate	Amount
	WATER SERVICES AND STORAGE (Cont)				
	(Cont) Upper Site Reticulation				
A	20mm dia sub-meter assembly with control valve and pressure limiting valve at 500kPA; including all valves, fittings and unions, any connections or jointing to piping etc.; all in accordance with the hydraulics drawings and specification		No.		
	WATER STORAGE				
	ROTOMOULD or approved equal water storage tanks				
	Raw Water Tank				
B	5300L Water Tank., 1800mm dia, x 2480mm high, install all as per the manufacturer's recommendations and incl. for all connections, outlets, etc as required	1	No.		
	Potable Water Tank				
C	5300L Water Tank., 1800mm dia, x 2480mm high, install all as per the manufacturer's recommendations and incl. for all connections, outlets, etc as required	2	No.		
	Non-Potable Water Tank				
D	5300L Water Tank., 1800mm dia, x 2480mm high, install all as per the manufacturer's recommendations and incl. for all connections, outlets, etc as required	1	No.		

Description	Qty	Unit	Rate	Amount
WATER SERVICES AND STORAGE (Cont)				
COLLECTION				
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Page No. 31/10				
Page No. 31/11				
WATER SERVICES AND STORAGE				

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	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	References only have been made in the Electrical, Communications and Security Services Section of these Bill of Quantities to the "Electrical Services" Specification. It is the Tenderers' obligation to refer to all of these documents in pricing the Bill of Quantities and to allow for any cost implications in connection with the various contractual conditions and requirements referred to therein.		Note		
C	The word "Item" has been placed only against references to clauses in the foregoing documents which it is expected the Tenderer will price. However, the Tenderer should also price any other references to clauses where he considers that costs may be incurred in complying with the requirements of these clauses.		Note		
D	If the Tenderer leaves particular references to clauses unpriced it will be deemed that the clauses referred to have their costs included elsewhere or that the Tenderer considers that no costs will be incurred in relation to those clauses.		Note		
E	Prices for fittings on conduits shall be deemed to include for cutting and waste and for extra joints		Note		

	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for conduits as `in trench' shall be deemed to include for excavating in whatever material is found including rock, levelling or grading and ramming or scabbling bottoms of trenches, forming handholes and pockets where required for jointing conduits, maintaining faces of excavation, including all additional excavation required for same, keeping excavations free from debris and falling materials, bedding, and backfilling as required above top of conduit with bedding material, and backfilling remainder of trench as specified, provide sleeves and flexible joint assemblies as detailed where conduits pass through foundations, consolidating and disposal of surplus excavated material, detectable identification strip or tape.		Note		
	BUILDER'S WORK				
B	Builder's work in connection with Electrical, Security and Communications Services has not been measured other than items of work detailed on the Architectural and Structural drawings. An item has been included within this section for Builder's Work in Connection which is deemed to include all builder's work not shown on Architectural and Structural drawings including trench excavation, backfilling, in-ground conduits, pump and plant bases, painting and the like.		Note		
	ALTERNATIVES/ OPTIONS				
C	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
D	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
E	Alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		

	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES (Cont)				
	TAXES AND RELATED CHARGES				
A	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import Fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
B	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
C	The following work has been measured and/or provided for elsewhere:		Note		
D	CIVIL WORKS' - Site Services - Trenching and conduits for cables		Note		
E	HYDRAULICS, DRAINAGE & FIRE' - Pump control panels, boiling water units, solar hot water service units, electronic sensor taps		Note		
	GENERAL ITEMS				
F	Allow for compliance with local relevant Acts, By-laws and regulations	1	Item		
G	Allow for giving notices, obtaining permits and completion certificates, paying fees and charges in connection with the installation	1	Item		
H	Allow for testing installations	1	Item		
J	Allow for providing samples	1	Item		
K	Allow for providing plans, diagrams, manuals and similar items of the installation as fitted	1	Item		
L	Allow for providing spares	1	Item		
M	Allow for providing prototypes of each non proprietary luminaire	1	Item		
N	Allow for providing manufacture and construction drawings	1	Item		

	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for testing, commissioning and maintaining	1	Item		
B	Allow for providing all guarantees and warranties	1	Item		
C	Allow for storing and protecting all materials and equipment	1	Item		
D	Allow for keeping site clean and free from rubish	1	Item		
	POWER SUPPLY				
	Site Reticulation/Mains				
	Mains				
E	Allow for the supply and installation of new underground consumer mains 4x1C 50mm2 CU XLPE/PVC originating from the nearest property pole/connection point from the point of supply to the main switchboard including terminations and connections at both ends as detailed on the Electrical drawings.	1	Item		
	POWER INSTALLATION				
	Main Switcboard				
F	Main Switchboard, (2400 wide x 300 deep x 2000mm high: IP56; Cable entry/exit: bottom. Freestanding totally enclosed construction. Including all switchgear, connections and sundries in accordance with the electrical drawings and specification.	1	No.		
G	Meter panel to comply with the electrical drawings and specification and local authority and power supplier guidelines	1	Item		
	Distribution Switchboard				
H	Distriution Switchboard (approx. 700 wide x 300 deep x 1200 high) totally enclosed construction. Including all switchgear, connections and sundries in accordance with the electrical drawings and specification.(Ground Floor)	1	No.		

	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES (Cont)				
	(Cont) POWER INSTALLATION				
	(Cont) Distribution Switchboard				
A	Distriution Switchboard (approx. 700 wide x 300 deep x 1200 high) totally enclosed construction. Including all switchgear, connections and sundries in accordance with the electrical drawings and specification.(First Floor)	1	No.		
B	Distriution Switchboard (approx. 300 wide x 100 deep x 400 high) totally enclosed construction. Including all switchgear, connections and sundries in accordance with the electrical drawings and specification.(Security / External)	1	No.		
C	Meter panel to comply with the electrical drawings and specification and local authority and power supplier guidelines	1	Item		
D	Main switchboard room bifolding door to house the MSB	1	No.		
	RETICULATION				
	Circuitry Wiring for Power Circuits				
E	Allow for circuitry wiring for power circuits generally, comprising insulated cables with copper conductors, PVC conduits and fittings, jointing and terminations, cable trays, cable tray fittings and catenary wires where required and earthing, including connection to switchboards and distribution boards; all as detailed on the Electrical Drawings	1	Item		
	Cable Trays				
F	300mm wide electric cable tray in ceiling	18	m		
G	300mm wide electric cable tray in electrical riser	4	m		
	Pump Shed				
H	Allow for power to Rain Water pumps all as detailed on Drwg. E0001 (0) incl. isolators, etc. all as detailed	1	Item		

	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES (Cont)				
	(Cont) RETICULATION				
	DCW Pump Room				
A	Allow for power to Domestic Cold Water pumps all as detailed on Drwg. E0001 (0) incl. weatherproof proprietry stand for isolators, additional weatherproof stand for GPO's incl. fixing of all GPO's etc. as detailed, etc.	1	Item		
	Power to pumps				
B	Allow for power to fire booster pumps	1	Item		
C	Allow for power to potable water pumps	1	Item		
	LIGHT FITTINGS				
	Refer Specification for light fitting details				
	Internal				
D	R1 - Recessed downlight to Wet areas	23	No.		
E	R2 - Recessed downlight to Common areas	37	No.		
F	R3 - Recessed downlight to Conference rooms	16	No.		
G	R4 - Recessed downlight to Ktchens	7	No.		
H	R5 - Recessed downlight to Offices / Reception	29	No.		
J	BH - Surface mounted LED Bulkhead light	4	No.		
K	BHE - Surface mounted LED Emergency Bulkhead light	1	No.		
L	LN - Linear light panel (Suspended) :[11/1.2 12/2.4]	42	m		
M	EXIT sign	9	No.		
N	Emergency light	13	No.		
	External				
P	SD - Weatherproof surface mounted LED down light	32	No.		
Q	G - Garden uplight	4	No.		
R	WL - Wall light surface mounted	16	No.		

	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES (Cont)				
	(Cont) LIGHT FITTINGS				
	(Cont) External				
A	PK - External carpark light (3m high) pole mounted with dayligt switch	11	No.		
	SWITCHES				
	Clipsal or approved equal switches incl. all associated wiring to lights etc.				
B	1 single switch	23	No.		
C	2 panel switch	5	No.		
D	3 panel switch	6	No.		
E	4 panel switch	1	No.		
F	Daylight switch to carpark lights (Single switch over-ride)	1	No.		
G	Daylight switch to external wall lights (Single switch over-ride)	3	No.		
H	Daylight switch to garden uplights (Single switch over-ride)	1	No.		
	GPO's				
	Clipsal or approved equal switches incl. all associated wiring to lights etc.				
	Internal				
J	Single power point to external wall	2	No.		
K	Single power point to internal wall	13	No.		
L	Double power point to external wall	22	No.		
M	Double power point to internal wall	46	No.		
N	Double power point to furniture	34	No.		
P	Dedicated hard wired power outlet for exhaust / fixtures	20	No.		
	External				
Q	Double weatherproof GPO withsplash cover	3	No.		
R	IP66 rated Isolator for ACU units	21	No.		

	Description	Qty	Unit	Rate	Amount
	ELECTRICAL SERVICES (Cont)				
	DIESEL STANDBY GENERATORS				
	Refer to Drwg E0001 (0) for detauls				
A	Allow for the complete, detailed design, manufacture, supply, delivery, placing into position, installation, energisation, testing, commissioning, placing into service, warranty, certification and maintenance for a complete and fully functional 415-240V/3Hp 4W, 50Hz - 3 phase diesel standby Genset with integral base fuel tank. Including all cabling and connection to reticulation, IP66 rated isolator for battery charger, 3 phase ATS. All in accordance with the electrical drawings and specification.	1	No.		

Description	Qty	Unit	Rate	Amount
ELECTRICAL SERVICES (Cont)				
COLLECTION				
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Page No. 32/9				
ELECTRICAL SERVICES				
Carried to Summary $				

	Description	Qty	Unit	Rate	Amount
	FIRE DETECTION AND ALARM				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	FIRE DETECTION AND ALARM (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	References only have been made in the Electrical, Communications and Security Services Section of these Bill of Quantities to the "Electrical Services" Specification. It is the Tenderers' obligation to refer to all of these documents in pricing the Bill of Quantities and to allow for any cost implications in connection with the various contractual conditions and requirements referred to therein.		Note		
C	The word "Item" has been placed only against references to clauses in the foregoing documents which it is expected the Tenderer will price. However, the Tenderer should also price any other references to clauses where he considers that costs may be incurred in complying with the requirements of these clauses.		Note		
D	If the Tenderer leaves particular references to clauses unpriced it will be deemed that the clauses referred to have their costs included elsewhere or that the Tenderer considers that no costs will be incurred in relation to those clauses.		Note		
	BUILDER'S WORK				
E	Builder's work in connection with Electrical, Security and Communications Services has not been measured other than items of work detailed on the Architectural and Structural drawings. An item has been included within this section for Builder's Work in Connection which is deemed to include all builder's work not shown on Architectural and Structural drawings including trench excavation, backfilling, in-ground conduits, pump and plant bases, painting and the like.		Note		

	Description	Qty	Unit	Rate	Amount
	FIRE DETECTION AND ALARM (Cont)				
	PROVISIONAL QUANTITIES				
A	The quantities of work labelled as PROVISIONAL in this Section of the Bill of quantities are to be remeasured during the progress of the works or on completion of the works. The Contractor will be deemed to have based his tender upon the quantities contained herein. He will be paid for the quantity of work contained in the Bill of Remeasured Quantities, subject only to subsequent variations authorised by the Superintendent and such quantity of work shall be valued at the unit price contained in the agreed priced copy of this Bill of Quantities		Note		
B	The Contractor will be deemed to have allowed in his prices for providing all records required for remeasuring the quantities, for providing the remeasured quantities and for all costs incurred in negotiating the value of the remeasured works		Note		
	ALTERNATIVES/ OPTIONS				
C	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
D	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
E	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
F	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import Fees, SINPF contribution etc.)		Note		

	Description	Qty	Unit	Rate	Amount
	FIRE DETECTION AND ALARM (Cont)				
	DIMENSIONS				
A	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
B	The following work has been measured and/or provided for elsewhere:		Note		
C	CIVIL WORKS' - Trenching and conduits for cables		Note		
	GENERAL ITEMS				
D	Allow for testing installations	1	Item		
E	Allow for providing samples	1	Item		
F	Allow for providing plans, diagrams, manuals and similar items of the installation as fitted	1	Item		
G	Allow for providing spares	1	Item		
H	Allow for testing, commissioning and maintaining	1	Item		
J	Allow for providing all guarantees and warranties	1	Item		
	FIRE DETECTION AND ALARM - SUPPLY AND INSTALL				
	Smoke Alarms				
	Ground Level				
K	240V Photoelectric Smoke alarm with 9V backup battery to AS3786	1	No.		
	Level 1				
L	240V Photoelectric Smoke alarm with 9V backup battery to AS3786	2	No.		
	BUILDERS WORKS IN CONNECTION				
	Allow for all builder's works in connection not measured separately				
M	Allow for all builder's works in connection associated and not measured separately	1	Item		

Description	Qty	Unit	Rate	Amount
FIRE DETECTION AND ALARM (Cont)				
COLLECTION				
Page No. 33/1				
Page No. 33/2				
Page No. 33/3				
Page No. 33/4				
FIRE DETECTION AND ALARM				

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	Description	Qty	Unit	Rate	Amount
	DATA, ACCESS CONTROL, SECURITY AND COMMUNICATIONS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	DATA, ACCESS CONTROL, SECURITY AND COMMUNICATIONS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	References only have been made in the Electrical, Communications and Security Services Section of these Bill of Quantities to the "Electrical Services" Specification. It is the Tenderers' obligation to refer to all of these documents in pricing the Bill of Quantities and to allow for any cost implications in connection with the various contractual conditions and requirements referred to therein.		Note		
C	The word "Item" has been placed only against references to clauses in the foregoing documents which it is expected the Tenderer will price. However, the Tenderer should also price any other references to clauses where he considers that costs may be incurred in complying with the requirements of these clauses.		Note		
D	If the Tenderer leaves particular references to clauses unpriced it will be deemed that the clauses referred to have their costs included elsewhere or that the Tenderer considers that no costs will be incurred in relation to those clauses.		Note		
	BUILDER'S WORK				
E	Builder's work in connection with Electrical, Security and Communications Services has not been measured other than items of work detailed on the Architectural and Structural drawings. An item has been included within this section for Builder's Work in Connection which is deemed to include all builder's work not shown on Architectural and Structural drawings including trench excavation, backfilling, in-ground conduits, pump and plant bases, painting and the like.		Note		

	Description	Qty	Unit	Rate	Amount
	DATA, ACCESS CONTROL, SECURITY AND COMMUNICATIONS (Cont)				
	ALTERNATIVES/ OPTIONS				
A	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
B	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
C	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
D	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import Fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
E	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
F	The following work has been measured and/or provided for elsewhere:		Note		
G	CIVIL WORKS' - Trenching and conduits for cables		Note		
	GENERAL ITEMS				
H	Allow for compliance with local relevant Acts, By-laws and regulations	1	Item		
J	Allow for liaison with local authorities as required				
K	Allow for giving notices, obtaining permits and completion certificates, paying fees and charges in connection with the installation	1	Item		

	Description	Qty	Unit	Rate	Amount
	DATA, ACCESS CONTROL, SECURITY AND COMMUNICATIONS (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for testing installations	1	Item		
B	Allow for providing samples	1	Item		
C	Allow for providing plans, diagrams, manuals and similar items of the installation as fitted	1	Item		
D	Allow for providing spares	1	Item		
E	Allow for providing manufacture and construction drawings	1	Item		
F	Allow for testing, commissioning and maintaining	1	Item		
G	Allow for providing all guarantees and warranties	1	Item		
H	Allow for storing and protecting all materials and equipment	1	Item		
	DATA AND TELECOMMUNICATIONS - OUTLETS				
	Data outlets				
J	Wall - Single RJ45 Cat 6 outlets	14	No.		
K	Wall - Double RJ45 Cat 6 outlets	17	No.		
L	Furniture - Single RJ45 Cat 6 outlets	13	No.		
M	Furniture - Double RJ45 Cat 6 outlets	3	No.		
	Telephone Outlet				
N	Wall - Single RJ45 Cat 6 outlets	25	No.		
P	Furniture - Single RJ45 Cat 6 outlets	13	No.		
	Printer Outlet				
Q	Wall - Double RJ45 Cat 6 outlets	2	No.		
	Television Outlet				
R	Wall - Double RJ45 Cat 6 outlets	2	No.		

To Collection $

	Description	Qty	Unit	Rate	Amount
	DATA, ACCESS CONTROL, SECURITY AND COMMUNICATIONS (Cont)				
	(Cont) DATA AND TELECOMMUNICATIONS - OUTLETS				
	HDMI with Fibre Optic Outlet				
A	Furniture - HDMI outlet incl. connection to TV points	3	No.		
	Access Point				
B	Ceiling - Single RJ45 Cat 6 outlets	4	No.		
	Projector				
C	Ceiling - Single RJ45 Cat 6 outlets	1	No.		
	CCTV				
	Proprietry CCTV System				
D	Supply and install approved CCTV system as detailed incl. linking back to the communications rack and complete with wall mounted monitoring screen and all requirements as detailed.	1	Item		
E	CCTV cameras for the system	3	No.		
	ACCESS CONTROL				
	Proprietry Access Control System				
F	Refer to Drwg - CO-200		Note		
G	Supply and install approved access control system as detailed incl. linking back to the communications rack and complete with access panels, magnetic locks, touch on exit button and Emergency Exit button.	2	Sets		
	SERVER ROOM				
	Structured Cabling - Server Rack				
H	TFL - 42U Communications rack (Approx 1000mm wide x 2100mm high x 1000mm deep	1	No.		
J	Structured cabling to the following from rack (RJ45 Data outlets, Photocopier outlets, TV outlets, Access Points, Projectors and CCTV cameras, access control)	1	Item		

	Description	Qty	Unit	Rate	Amount
	DATA, ACCESS CONTROL, SECURITY AND COMMUNICATIONS (Cont)				
	CABLING				
	Telecommunications Cabling				
A	Allow for supply, installation, testing and commissioning of the complete integrated structured telecommunications cabling system as per the engineers drawings and specifications	1	Item		
B	50mm in wall conduit (From cable pull box in ground floor) - vertically to level 1 ceiling space	6	m		
C	150mm wide comms cable tray in first floor ceiling space	38	m		
D	150mm wide comms cable tray in ground floor ceiling space	35	m		
E	300mm wide comms cable tray vertically to lower level in cover and incl. all fire petration cover etc.	3	m		
F	150mm wide comms cable tray vertically to lower level in cover and incl. all fire petration cover etc.	3	m		
G	Ground bar to the structured cabling system (Liaise with Electrician)	1	Item		
	Building Distributor / MDF				
H	Telecom lead-in and Cat 6 Distributor/Comms Rack - MDFs to units as specified	1	No.		
	BUILDERS WORKS IN CONNECTION				
J	Allow for all builder's works in connection associated and not measured separately	1	Item		

To Collection $

Description	Qty	Unit	Rate	Amount
DATA, ACCESS CONTROL, SECURITY AND COMMUNICATIONS (Cont)				
COLLECTION				
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DATA, ACCESS CONTROL, SECURITY AND COMMUNICATIONS				

	Description	Qty	Unit	Rate	Amount
	MECHANICAL SERVICES				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	MECHANICAL SERVICES (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	Measurement and prices deemed to include for: sockets, running joints, connectors, back nuts, nipples and pipe and duct fittings such as support clips, saddles, brackets, hangers, straps, screws, nails, explosive and low velocity tool fasteners and other metal fasteners anchors and/or systems and fixing complete including cutting and forming holes, supply and building in sleeves (other then fire rated).		Note		
C	Prices for sheetmetal ductwork shall be deemed to include for all air terminals, hangers, brackets, fittings and accessories as specified to form complete systems.		Note		
D	The Contractor's is referred to the Drawings/Specification for Mechanical Services for full details on measurement and prices requirements.		Note		
E	References only have been made in the Mechanical Services Section of these Bill of Quantities to the "Mechanical Services" Specification. It is the Tenderers' obligation to refer to all of these documents in pricing the Bill of Quantities and to allow for any cost implications in connection with the various contractual conditions and requirements referred to therein.		Note		
F	The word "Item" has been placed only against references to clauses in the foregoing documents which it is expected the Tenderer will price. However, the Tenderer should also price any other references to clauses where he considers that costs may be incurred in complying with the requirements of these clauses.		Note		
G	If the Tenderer leaves particular references to clauses unpriced it will be deemed that the clauses referred to have their costs included elsewhere or that the Tenderer considers that no costs will be incurred in relation to those clauses.		Note		

	Description	Qty	Unit	Rate	Amount
	MECHANICAL SERVICES (Cont)				
	BUILDER'S WORK				
A	Builder's work in connection with Mechanical Services has not been measured other than items of work detailed on the Architectural and Structural drawings. An item has been included within this section for Builder's Work in Connection which is deemed to include all builder's work not shown on Architectural and Structural drawings.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
G	ROOFING: - Wall and roof penetrations, upstands and underflashing		Note		
H	CONCRETE: - Concrete plinths to the underside of plinth mounted condenser units.		Note		

	Description	Qty	Unit	Rate	Amount
	MECHANICAL SERVICES (Cont)				
	(Cont) WORK IN OTHER SECTIONS				
A	SUSPENDED CEILINGS - Penetrations in ceilings for grilles, ducts and pipework		Note		
B	HYDRAULICS: - Tundishes		Note		
C	ELECTRICAL: - Installation and termination of 415 Volt 3 phase submains		Note		
D	ELECTRICAL: - Provision of electrical power and weatherproof isolators		Note		
E	ELECTRICAL: - Provision of electrical power and a dedicated isolator		Note		
F	ELECTRICAL: - Fire indicator panel including fire fan control panel		Note		
	MECHANICAL SERVICES				
G	Sub-Contract for Mechanical Services Works to the Project is based on D&C Submission with Peer Review by Consultants and Review of Sub-Contractor and Sub-Contract Arrangements.		Note		
H	Sub-Contrator is to be a 'Panel Service Provider' for SINPF in meeting their requirements for active service on SINPF Projects		Note		
J	Sub-Contrator is to supply Daiken product and carry spares to support and back up the installation of equipment supplied as well as provision of 24Hr Emergency Breakdown Service, Spare units and parts and full compliance to manufactureres warranties, etc.		Note		
	GENERAL ITEMS				
K	Allow for co-ordination of work programme and time chart as specified	1	Item		
L	Allow for setting out and openings as specified	1	Item		
M	Allow for provision of 2 Year Preventative Maintenance Programme on completion of the installation works.	1	Item		
N	Allow for insurance	1	Item		
P	Allow for warranties	1	Item		

To Collection $

	Description	Qty	Unit	Rate	Amount
	MECHANICAL SERVICES (Cont)				
	(Cont) GENERAL ITEMS				
A	Allow for 'Blygold' treatment or similar anti corrosive factory application	1	Item		
B	Allow for Handover Documents and As Built drawings	1	Item		
	MECHANICAL SERVICES WORKS				
	Air Conditioning Works				
	DAIKEN or approved air conditioning systems/units including ductwork, grilles, refrigerant pipework and condensing units. to complete AC system as specified				
	Ductworks and refrigerant pipework				
C	Allowance for ductwork, refrigerant pipework, drainage and freshair lines and associated items as required for complete system as documented	1	Item		
	High Wall Unit				
D	High wall unit 2.2KW Capacity (G2, G3, G4)	3	No.		
E	High wall unit 2.5KW Capacity (G9)	1	No.		
F	High wall unit 2.5KW Capacity (F3A, F3B) complete with safety drain tray to server room indoor units	2	No.		
G	High wall unit 2.8KW Capacity (G1)	1	No.		
H	High wall unit 3.6KW Capacity (G5, G8, F1, F2, F4, F5, F8, F10)	8	No.		
	Standard Cassett Unit				
J	Standard Casette unit 8.5KW Capacity (G6, G7)	2	No.		
K	Standard Casette unit 10.5KW Capacity (F6, F7)	2	No.		
	Compact Cassette Unit				
L	Compact Casette unit 6KW Capacity (F9)	1	No.		

	Description	Qty	Unit	Rate	Amount
	MECHANICAL SERVICES (Cont)				
	(Cont) Air Conditioning Works				
	(Cont) Compact Cassette Unit				
	Unistrut fixing brackets to walls to support and house units incl. all necessary seismic fittings, etc. as required				
	Brackets fixed to block walls				
A	Bracket to suit 2.2KW outdoor unit	3	No.		
B	Bracket to suit 2.5KW outdoor unit	3	No.		
C	Bracket to suit 2.8KW outdoor unit	1	No.		
D	Bracket to suit 3.6KW outdoor unit	8	No.		
E	Bracket to suit 6.0KW outdoor unit	1	No.		
F	Bracket to suit 8.5KW outdoor unit	2	No.		
G	Bracket to suit 10.5KW outdoor unit	2	No.		
	Mini BMS to Data Room				
H	Mini BMS for automatic switchover to Server Room	1	No.		
	Access Panels to Ceiling Spaces to allow access for maintenance etc. incl. liason with Builder to provide framing and panel				
	Proprietry hinged access panel				
J	600 x 600 access panel	12	No.		
	Trapped tundish in wall to suit pipework incl. liaison with builder for location and outfalls				
K	In wall tundish for condensate lines	10	No.		
	Holyoake or approved Door Grill				
	Model DG-52				
L	600 x 300 door grill	10	No.		

	Description	Qty	Unit	Rate	Amount
	MECHANICAL SERVICES (Cont)				
	Freshair Intake				
	Ductwork				
A	Allowance for ductwork and associated items as required for complete system as documented	1	Item		
	Holyoake or approved Fresh Air Louvre				
	Model OHL-F-D				
B	300 x 300 fresh air intake louvre	3	No.		
C	450 x 300 fresh air intake louvre	1	No.		
	Commissioning and Testing				
D	Commission and test system to design requirements	1	Item		
	Ventilation Works				
	FANTECH or approved ventilation fan system incl. dictwork, etc. to complete the system as specified				
	Ductwork				
E	Allowance for ductwork and associated items as required for complete system as documented	1	Item		
	Wall Mounted System				
F	EDM-300C exhaust fan unit 50L/s (G1, F1)	2	No.		
G	RP204 exhaust fan unit, 50L/s (G1)	1	No.		
	In Ceiling Ducted System				
H	TD-EVO-200VAR exhaust fan unit 100L/s (G2, G3)	2	No.		
J	TD-EVO-200VAR exhaust fan unit 100L/s (F1)	1	No.		
K	TD-EVO-200VAR exhaust fan unit 75L/s (F1)	1	No.		
	Holyoake or approved Ceiling Exhaust Grill				
	Model ECO				
L	150 dia. exhaust grill	11	No.		

	Description	Qty	Unit	Rate	Amount
	MECHANICAL SERVICES (Cont)				
	(Cont) Ventilation Works				
	(Cont) Model ECO				
	Holyoake or approved Exhaust Air Louvre				
	Model OHL-F-D				
A	450 x 300 exhaust air louvre to block wall	2	No.		
	Commissioning and Testing				
B	Commission and test system to design requirements	1	Item		
	BUILDERS WORK IN CONNECTION				
	Builders Work in Connection with Mechanical Services				
C	Allow for all builder's works in connection associated and not measured separately	1	Item		

Description	Qty	Unit	Rate	Amount
MECHANICAL SERVICES (Cont)				
COLLECTION				
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MECHANICAL SERVICES				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	FIRE SERVICES				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	FIRE SERVICES (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import Fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	GENERAL ITEMS				
G	Allow for samples as required	1	Item		
H	Allow for providing plans, diagrams, manuals and similar items of the installation as fitted	1	Item		
J	Allow for providing spares	1	Item		

To Collection $

	Description	Qty	Unit	Rate	Amount
	FIRE SERVICES (Cont)				
	FIRE EXTINGUISHERS				
	Portable Dry Powder Fire Extinguisher (ABE) incl. all associated signage and fixings etc.				
A	2.5Kg portable extinguisher (Outside Cashier Office)	1	No.		
B	2.5Kg portable extinguisher (Outside Cashier Office)	1	No.		
C	2.5Kg portable extinguisher (Hallways, Ground and First Floor)	2	No.		
D	2.5Kg portable extinguisher (Inside ICT Room)	1	No.		
E	2.5Kg portable extinguisher (Security Office)	1	No.		
	Portable Carbon Dioxide Fire Extinguisher (CO2) incl. for weatherproof external cabinet and all associated signage and fixings etc.				
F	3.5Kg portable extinguisher (External)	1	No		
	FIRE BLANKET				
	Proprietry Fire Blanket incl. all signage and fixings as required				
G	Fire blanket to kitchen	2	No.		
	BUILDERS WORKS IN CONNECTION				
H	Allow for all builder's works in connection associated and not measured separately	1	Item		

To Collection $

Description	Qty	Unit	Rate	Amount
FIRE SERVICES (Cont)				
COLLECTION				
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FIRE SERVICES				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	(CIVILS) DRAINAGE				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) DRAINAGE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
G	HYDRAULICS - Subsoil drainage		Note		
H	Constructing concrete trench drains included with the relevant concrete/formwork sections in ROADWORKS or TOWNHOUSES		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) DRAINAGE (Cont)				
	MEASUREMENT AND PRICES				
A	Trench depths stated in drainage items assume that all excavations will be executed from the finished formation level (i. e. after excavation to reduce levels and/or filling to make up levels has been completed). The rates for such items shall include for any costs that may be incurred by employing an alternative method to that described.		Note		
B	Excavation depths stated are to invert level of pipe and make no allowance for the depths for thicknesses of pipes and beds under.		Note		
C	Junctions have been given with the straight through opening sizes first and the branch opening last. Reducers or bends which may be required to ends or branches of the junctions have not been measured and prices shall include for these as necessary.		Note		
D	Prices for fittings on pipes shall be deemed to include for cutting and waste and for extra joints		Note		
E	Prices for gullies, traps, junctions, bends, vertical bends etc., shall be deemed to include for assembling and jointing component parts together; jointing to drains, setting on and surrounding with concrete 150mm min thick, additional excavation, maintaining faces of excavation and disposal of surplus excavated material, all necessary formwork		Note		
F	Prices for manholes, inspection chambers, field gullies, interceptor traps and the like shall be deemed to include for all necessary excavation in material as found including rock, maintaining faces of excavation, backfilling, concrete, formwork, reinforcement, benching as required. Where necessary prices shall also be deemed to include for pipework, fittings, etc. within the chamber to provide internal droppers and for ladders and/or step irons as required/specified		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) DRAINAGE (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for pipes described as `in trench' shall be deemed to include for excavating in whatever material is found including rock, levelling or grading and ramming or scabbling bottoms of trenches, forming handholes and pockets where required for jointing pipes and for sockets of pipes, maintaining faces of excavation, including all additional excavation required for same, keeping excavations free from debris and falling materials, bedding pipes and drains as specified, backfilling as required above top of pipe with bedding material, and backfilling remainder of trench as specified, provide sleeves and flexible joint assemblies as detailed where pipes pass through foundations, anchor or thrust blocks, consolidating and disposal of surplus excavated material, detectable identification strip or tape.		Note		
	GENERAL ITEMS				
B	Allow for compliance with statutory requirements as specified including relevant Acts, By-Laws, Regulations and Works by Authority as required		Item		
C	Allow for giving all notices, obtaining permits and certificates, paying fees and the like		Item		
D	Allow for 'as-constructed' drawings as specified		item		
E	Allow for keeping excavation free from rain and percolating water by pumping or otherwise		Item		
F	Allow to liase with local authorities prior to commencement of construction of sewer manholes and associated pipework as specified		Item		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) DRAINAGE (Cont)				
	STORMWATER DRAINAGE - UPPER SITE				
	PVC Pipework				
	uPVC pipework and fittings with joints as specified laid in trench including excavation in material as found, bedding and backfilling on completion all in accordance with the specification and drawings				
	100mm Pipework				
A	100mm dia; 0-1m deep	24	m		
B	100mm dia; 1-2m deep	11	m		
C	100mm dia; 2-3m deep	8	m		
	100mm Fittings				
D	100mm fittings; bends	14	No.		
E	100mm fittings; 100-225mm transition	6	No.		
	150mm Pipework				
F	150mm dia; 0-1m deep	34	m		
G	150mm dia; 1-2m deep	12	m		
H	150mm dia; 2-3m deep	4	m		
	150mm Fittings				
J	150mm fittings; Tee or Y	2	No.		
K	150mm fittings; bends	4	No.		
L	150mm pipe inlet to trench drain	2	No.		
M	150mm pipe outlet from trench drain	2	No.		
	225mm Pipework				
N	225mm dia; 0-1m deep	4	m		
P	225mm dia; 1-2m deep	18	m		
Q	225mm dia; 2-3m deep	12	m		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) DRAINAGE (Cont)				
	(Cont) PVC Pipework				
	225mm Fittings				
A	225mm fittings; Tee or Y	2	No.		
B	225mm fittings; bends	12	No.		
	450mm Pipework				
C	450mm dia; 1-2m deep	6	m		
D	450mm dia; 2-3m deep	3	m		
	Agricultural drains				
E	100mm agi drains with couse aggregate surround to retaining walls as per details om C803. Connected to nearest sormwater line/out to be directed on site. (Provisional Quantity)	38	m		
	STORMWATER DRAINAGE - LOWER SITE				
F	Lower site drainage measured from inlet		Note		
	Trench/channel grates				
G	1300mm approx. wide Class "D" trafficable trench grate; fixed over existing channel	6	m		
	SEWER DRAINAGE				
	PVC Pipework				
	In trenches; PVC pipework including excavation, laying, jointing, backfilling and compaction as specified				
H	150mm dia; 1-2m deep	64	m		
J	Extra over above for works outside the boundary and reinstatement of existing road/surfaces	6	m		
K	150mm dia; 2-3m deep	9	m		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) DRAINAGE (Cont)				
	Manholes / Inspection Chamber				
	In-situ reinforced concrete sewer manholes / inspection chamber connected to pipework; Excavate, level and compact bottom of excavation; including necessary working space; 50mm thick sand blinding; 150m thick base incl/ channels/benching and walls incl. formwork as required; step irons as required and frame/lid, back filling around with hardfill or excavated material. As per typical details on H-Misc-B(0)				
A	IC1 - 600mm x 450mm (Less than 600mm deep to invert level) and with 1 x 100mm dia. inlet and 1 x 100mm dia. outlet	1	No.		
B	IC2 - 900mm x 600mm (Less than 900mm deep to invert level) and with 1 x 100mm dia. inlet and 1 x 100mm dia. outlet	1	No.		
C	IC3 - 1200mm x 750mm (Approx 1850mm deep to invert level) and with 2 x 100mm dia inlet and 1 x 100mm dia. outlet	1	No.		
D	IC4 - 1200mm x 750mm (Approx 2450mm deep to invert level) and with 2 x 100mm dia inlet and 1 x 150mm dia. outlet	1	No.		
	Manholes				
E	1050mm dia. MH, 2-3m deep (ref. 2/1)	1	No.		
F	1050mm dia. MH, 5-6m deep (ref. 4/1)	1	No.		
G	1050mm dia. MH, 6-7m deep (ref. 3/1)	1	No.		

Description	Qty	Unit	Rate	Amount
(CIVILS) DRAINAGE (Cont)				
COLLECTION				
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(CIVILS) DRAINAGE				
			Carried to Summary $	

	Description	Qty	Unit	Rate	Amount
	(CIVILS) RETAINING WALLS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) RETAINING WALLS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
G	GROUNDWORKS - Stripping of topsoil and bulk cut and fill		Note		
H	HYDRAULICS - Agricultural drains behind retaining walls		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) RETAINING WALLS (Cont)				
	MEASUREMENT AND PRICES				
A	All quantities in this section are PROVISIONAL and may be subject to remeasurement		Note		
B	Excavation quantities given are net		Note		
C	Footing size variable based on wall height		Note		
	RETAINING WALLS				
	GENERAL ITEMS				
D	Allow for compaction tests as specified	1	Item		
E	Allow for inspections as specified	1	Item		
F	Allow for submissions as specified	1	Item		
G	Allow for the preparation of all bending schedules as specified	1	Item		
H	Allow for coordination of services	1	Item		
J	Allow for records as specified	1	Item		
K	Allow for testing as specified	1	Item		
L	Allow for compaction tests as specified	1	Item		
	Footings				
	Detailed excavation from reduced level incl. for working space (Prior to Engineered Fill)				
M	Detailed excavation for footing (Section A on Drwg C113) :[25 m]	77	m3		
N	Detailed excavation for footing toe - from reduced footing excavation level (Section A on Drwg C113)	8	m3		
P	Detailed excavation for footing (Section B on Drwg C113) :[44 m]	185	m3		
Q	Detailed excavation for footing (Section C on Drwg C113) :[19 m]	19	m3		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) RETAINING WALLS (Cont)				
	(Cont) Footings				
	Concrete to footings (base/toe/heels); 32 Mpa				
A	2150 wide x 500mm deep footing with 500mm wide x 600mm deep toe (Section A on Drwg C113) :[25 m]	34	m3		
B	1850 wide x 1050mm deep footing (Section B on Drwg C113) :[44 m]	84	m3		
C	700mm wide x 300mm deep footing (Section C on Drwg C113) :[19 m]	3.9	m3		
	Formwork to footings incl. for all bracing, etc.				
D	Class 5 formwork to face of concrete toe (Section A on Drwg C113) :[25 m]	15	m2		
E	Class 5 formwork to face of concrete footing (Section A on Drwg C113) :[25 m]	13	m2		
F	Class 5 formwork to face of concrete footing & toe (Section A on Drwg C113) :[25 m]	27	m2		
G	Class 5 formwork to face of concrete footing (Section B on Drwg C113) :[91 m]	96	m2		
H	Class 5 formwork to face of footing 250mm - 500mm high (Section C on Drwg C113)	37	m		
	Reinforcement to Footings - All Bars ar HD Grade				
J	HD16 bars to footings and toe (Section A on Drwg C113)	1.72	t		
K	HD16 bars to footings (Section B on Drwg C113)	2.95	t		
L	HD16 bars to footing (Section C on Drwg C113)	0.28	t		
M	HD16 ligature bars to footing (Section A on Drwg C113)	1.74	t		
N	HD16 ligature bars to footing (Section B on Drwg C113)	2.05	t		
P	HD16 ligature bars to footing (Section C on DRWG C113)	0.31	t		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) RETAINING WALLS (Cont)				
	(Cont) Footings				
	(Cont) Reinforcement to Footings - All Bars ar HD Grade				
A	HD10 ligature bars to footings (Section A on Drwg C113)	0.12	t		
	Stem Walls				
	Concrete to Stem Wall - 32Mpa				
B	350mm thick concrete stem wall (Section A + B on Drwg C113) :[68 m]	60	m3		
	Formwork to Stem walls incl. for all propping, bracing, etc.				
C	Class 5 formwork / face of stem wall to outside rear backfilled section :[68 m]	170	m2		
D	Class 2 formwork / face of stem wall to inside visable section :[68 m]	170	m2		
	Reinforcement to Stem Walls				
E	HD12 starter bars + vertical bars to stem walls (Section A + B on DRWG C113)	2.81	t		
F	HD16 bars to stem walls (Section A + B on Drwg C13)	3.22	t		
G	HD10 ligature bars to stem wall (Section A on Drwg C113)	0.44	t		
	Concrete finishes				
H	Trowel finish to top of stem wall, 250 - 500mm wide	68	m		
	Drainage Pipe Penetrations				
J	Allow to form penetrations or cast in pipe sections for drainage penetrations through retaining walls (as per detail on C804). Pipe size not exceeding 450mm.	1	Item		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) RETAINING WALLS (Cont)				
	Blockwork				
	200mm thick block wall				
	200 series' smooth face natural grey blocks in stretcher bond with cement/lime/sand mortar (1:1:6) including closing cavitites at ends of hollow walls and jambs of openings, pointing, joints and cleaning down as specified				
A	200 Block retaining wall n.e 1000mm high (Section C on Drwg C113) :[19 m]	15	m2		
B	200 Block retaining wall 1000mm - 2000mm high (Section A+B on Drwg C113) :[68 m]	75	m2		
	Reinforcement to Blockwork				
C	HD16 starter bar to block wall	2.12	t		
D	HD16 bar in block wall	1.88	t		
	Core filling to all cores of block wall				
E	Core fill to block retaining wall n.e. 1000mm high :[86 m]	89	m2		
	Concrete Header Beam				
	Concrete Header Beam - 32 Mpa				
F	Concrete beam to top of wall :[68 m]	6	m3		
	Formwork to Header Beam incl. for all propping, bracing, etc.				
G	Class 2 formwork to sides of header beam to top of block wall 250mm - 500mm high :[135 m]	135	m		
	Reinforcement to Header Beam				
H	HD16 starter bar to block wall	0.5	t		
	Concrete finishes				
J	Trowel finish to top of header beam, 0 - 250mm wide :[68 m]	68	m		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) RETAINING WALLS (Cont)				
	Subsoil Drainage				
	Subsoil Drain (300 x 300)				
A	100 dia. class 400 slotted pipe with approved geotextile sock behind retaining wall in 300 x 300 subsoil drain as detailed (Section C on Drwg C113)	86	m		
	Engineered Fill				
	Engineers fill as specified				
B	Engineered fill compacted as specified in layers to rear of block retaining walls	109	m3		
C	Engineered fill compacted as specified in layers to rear of stem concrete retaining walls	171	m3		
D	Engineered fill compacted as specified in layers to front of stem concrete retaining walls and footing excavations	221	m3		
	Surface Drains				
	V Drain				
E	Top of Wall - Construct 480mm wide 'V' drain to top of retaining wall all as per details on Drwg C113 incl. for all levrelling, concrete cappings, etc. as required	57	m		
F	Base of Wall - Construct 480mm wide 'V' drain to base of retaining wall all as per details on Drwg C113 incl. for all levrelling, concrete cappings, etc. as required	57	m		
G	On Grade - Construct 480mm wide 'V' drain as per details on Drwg C113 incl. for all levrelling, concrete cappings, etc. as required	11	m		
	RET WALLS - WATERPROOF MEMBRANES				
	Approved waterproof membranes to retaining walls (including concrete stem wall and blockwork)				
H	Waterproof membreane to stem concrete wall	171	m2		
J	Waterproof membrane to block retaining wall / concrete header	118	m2		

Description	Qty	Unit	Rate	Amount
(CIVILS) RETAINING WALLS (Cont)				
COLLECTION				
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(CIVILS) RETAINING WALLS				

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	Description	Qty	Unit	Rate	Amount
	(CIVILS) ROADWORKS & SERVICES SLABS				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) ROADWORKS & SERVICES SLABS (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import fees, SINPF contribution etc.)		Note		
	DIMENSIONS				
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	WORK IN OTHER SECTIONS				
G	Suspended slabs at rear of Townhouses measured with Townhouses		Note		
H	DRAINAGE - Trench grates, pits and associated works		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) ROADWORKS & SERVICES SLABS (Cont)				
	GENERAL ITEMS				
A	Allow for compliance with statutory requirements as specified including relevant Acts, By-Laws, Regulations and Works by Authority as required		Item		
B	Allow for giving all notices, obtaining permits and certificates, paying fees and the like		Item		
C	Allow for 'as-constructed' drawings as specified		Item		
D	Allow for subgrade CBR testing to confirm pavement design		Item		
E	Allow for completion of roadworks/pavements after the building construction and/or keeping construction traffic off finished pavement (if roadworks approved to be completed earlier by the Superintednent)		Item		
	ROADWORKS				
	UPPER SITE - CONCRETE ROADS & CAR PARKS				
	150mm thick concrete pavement/roads, including base preparation; 100mm sand or other approved bedding, 0.2mm Polyethylene membrane, SL82 mesh, N32 concrete finished in accordance with the specification.to falls as per levels and layout plans				
	Upper Site - Road				
F	Road 1	112	m2		
	Extra over				
G	Extra over for edge thickenings in above	26	m		
H	Extra over for forming 300 wide trench drains in above	18	m		
	Upper Site - Visitor Carpark				
J	Visitor car park and bin store area	68	m2		
	Extra over				
K	Extra over for edge thickenings in above	34	m		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) ROADWORKS & SERVICES SLABS (Cont)				
	Joints - Upper Site				
A	Saw cut joints; saw cut as specified and 10mm PD3 Danley (Galv.) dowels and cradle	38	m		
B	Dowel expansion joints; including dowel bars at centres as specified, 10mm impressible filler full depth and 10 x 10 sealant	44	m		
	Kerbs - Upper Site				
C	Formed edge (FE); 150 x 150 tapered; incl. N12 Galv starter bar	28	m		
D	M4 type mountable kerb; 325 wide	6	m		
E	Semi mountable kerb (SM2); 300 x 150	4	m		
	LOWER SITE - CAR PARKS				
	150mm thick concrete pavement/roads, including base preparation; 100mm sand or other approved bedding, 0.2mm Polyethylene membrane, SL82 mesh, N32 concrete finished in accordance with the specification to falls as per levels and layout plans				
	Lower Site - Carpark				
F	Car park slab	108	m2		
	Extra over				
G	Extra over for edge thickenings in above	14	m		
	Joints - Lower Site				
H	Saw cut joints	14	m		
J	Dowel joints	6	m		
	Joint to existing flexible road pavement				
K	Sawcut 600mm into existing pavement at both site access points and join to new pavement as per detail on drawing	18	m		
	Kerbs - Lower Site				
L	Formed edge (FE); 150 x 150 tapered; incl. N12 Galv starter bar	22	m		
M	Extra over above for edge thickenings	14	m		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) ROADWORKS & SERVICES SLABS (Cont)				
	SERVICES SLABS/PLINTHS ON GRADE				
	Genset Slab				
	500mm thick concrete slabs/plinths, including base preparation; 100mm sand or other approved bedding, 0.2mm Polyethylene membrane, SL82 mesh, N32 concrete finished in accordance with the specification. Refer Drawings E0001. To falls as per levels and layout plans.				
A	Genset services slabs, 3300 x 3300 slab :[11 m2]	6	m3		

Description	Qty	Unit	Rate	Amount
(CIVILS) ROADWORKS & SERVICES SLABS (Cont)				
COLLECTION				
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(CIVILS) ROADWORKS & SERVICES SLABS				

Carried to Summary $

	Description	Qty	Unit	Rate	Amount
	(CIVILS) SITE SERVICES				
	GENERALLY				
A	The Tenderer shall refer to the Specification and Drawings for full particulars and descriptions of workmanship and materials and shall include for the full intent and meaning thereof in the prices of items herein		Note		
	PREAMBLES				
B	The Contractor is referred to Bill #1 - 'PRELIMINARIES & GENERAL' and shall make all allowances in each sections of this BOQ to comply with these items.		Note		
	DRAWINGS				
C	The Contractor is referred to the Drawing Register attached to the back of this Bill of Quantities for the drawings and their revision or issue references used in the preparation of this document.		Note		
	SPECIFICATION				
D	The Contractor is referred to the Specification for full descriptions of materials, workmanship, etc. and shall allow here or in his prices for all costs incurred in connection therewith		Note		
	MEASUREMENT AND PRICES				
E	Prices are to reflect this document as a "Builders Bill" only and Contractors shall include for all works not measured nor noted but deemed necessary for the construction and completion of the project in full compliance with all Tender Documents		Note		
F	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) SITE SERVICES (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
B	References only have been made in the Electrical, Communications and Security Services Section of these Bill of Quantities to the "Electrical Services" Specification. It is the Tenderers' obligation to refer to all of these documents in pricing the Bill of Quantities and to allow for any cost implications in connection with the various contractual conditions and requirements referred to therein.		Note		
C	The word "Item" has been placed only against references to clauses in the foregoing documents which it is expected the Tenderer will price. However, the Tenderer should also price any other references to clauses where he considers that costs may be incurred in complying with the requirements of these clauses.		Note		
D	If the Tenderer leaves particular references to clauses unpriced it will be deemed that the clauses referred to have their costs included elsewhere or that the Tenderer considers that no costs will be incurred in relation to those clauses.		Note		
E	The Contractor will price every item that has a value and use realistic rates to facilitate accurate costing of Variations and Claims. Unpriced items will be deemed to have their cost included elsewhere or to be NIL value. Unrealistic rates in the submitted priced Bill of Quantities will be subject to adjustment in accordance with the Conditions of Contract.		Note		
F	Prices will be deemed to include for all work necessary to fully provide and commission the installations in accordance with the drawings and specifications.		Note		
G	Prices for fittings on conduits shall be deemed to include for cutting and waste and for extra joints		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) SITE SERVICES (Cont)				
	(Cont) MEASUREMENT AND PRICES				
A	Prices for conduits as `in trench' shall be deemed to include for excavating in whatever material is found including rock, levelling or grading and ramming or scabbling bottoms of trenches, forming handholes and pockets where required for jointing conduits, maintaining faces of excavation, including all additional excavation required for same, keeping excavations free from debris and falling materials, bedding, and backfilling as required above top of conduit with bedding material, and backfilling remainder of trench as specified, provide sleeves and flexible joint assemblies as detailed where conduits pass through foundations, consolidating and disposal of surplus excavated material, detectable identification strip or tape.		Note		
	ALTERNATIVES/ OPTIONS				
B	The contractor is welcome to provide alternatives to products, materials, details and methodology to facilitate cost and/or time savings.		Note		
C	Alternatives are to be submitted as a separate document but all items as shown on the Drawings and as measured in the Bill of Quantities shall be priced and submitted for Tender evaluation purposes.		Note		
D	All alternatives are to be submitted to the Superintendent/Project Manager for written approval prior to implementation.		Note		
	TAXES AND RELATED CHARGES				
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance) and shall include costs for compliance with all legislative and statutory requirements and related charges (including but not limited to: Sales Tax, Goods Tax, With-holding Tax, Duties, HCC Fees, Import Fees, SINPF contribution etc.)		Note		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) SITE SERVICES (Cont)				
	DIMENSIONS				
A	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	GENERAL ITEMS				
B	Allow for compliance with local relevant Acts, By-laws and regulations		Item		
C	Allow for giving notices, obtaining permits and completion certificates, paying fees and charges in connection with the installation		Item		
D	Allow for providing insurances		Item		
E	Allow for testing installations		Item		
F	Allow for providing samples		Item		
G	Allow for providing plans, diagrams, manuals and similar items of the installation as fitted		Item		
H	Allow for providing spares		Item		
J	Allow for providing manufacture and construction drawings		Item		
K	Allow for testing, commissioning and maintaining		Item		
L	Allow for providing all guarantees and warranties		Item		
M	Allow for storing and protecting all materials and equipment		Item		
N	Allow for keeping site clean and free from rubish		Item		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) SITE SERVICES (Cont)				
	ELECTRICAL CONDUITS AND PITS				
	Electrical Conduits				
	HDPVC conduits and fittings laid in trenches or fixed to structures; including trenching, jointing, fittings, solvent welding, backfilling and compaction, marker tapes/posts all in compliance with the drawings and specification				
A	100mm conduit	36	m		
	Conduits for DCW Pump Room				
B	Allow to provide suitably sized underground conduits for reticulation of cabling as required for DCW Pump Room power supply.	1	Item		
	Conduits for Pump Shed				
C	Allow to provide suitably sized underground conduits for reticulation of cabling as required for Domestic Water Pump supply.	1	Item		
	Conduits for Genset				
D	Allow to provide suitably sized underground conduits for reticulation of cabling as required for Genset	1	Item		
	Connection				
E	Allow to connect to existing site utility as required	1	Item		
	SERVICES PITS				
	Cable Pits				
	UPVC pits and covers; including excavation, backfilling and compaction in compliance with the drawings and specification				
F	CP#1 - 700 x 700 x 750mm deep pit	1	No.		
G	CP#2 - 700 x 700 x 750mm deep pit	1	No.		
	Connections				
H	100mm dia. communication conduits inlets	4	No.		
J	100mm dia. communication conduits outlets	4	No.		

	Description	Qty	Unit	Rate	Amount
	(CIVILS) SITE SERVICES (Cont)				
	EXTERNAL COMMUNICATIONS				
	Communications Conduits				
	UPVC conduits and fittings laid in trenches or fixed to structures; including trenching, jointing, fittings, solvent welding, backfilling and compaction, marker tapes/posts all in compliance with the drawings and specification				
A	50mm conduit (Under slab to pull box location)	7	m		
B	50mm conduit bend and connection to vertical riser point (incl. pull box)	1	No.		
C	2 x 100mm conduits (CP#1 - CP#2) in ground	20	m		
D	2 x 100mm conduits (CP#1 - Telecom Connection Across Road) in ground	7	m		
E	2 x 100mm conduits (CP#1 - Telecom Connection Across Road) in road Outside Site Boundary	12	m		
	Connection				
F	Connection into Telecom Box (Outside Site Boundary)	1	Item		
	BUILDERS WORK IN CONNECTION				
	Allow for all builder's works in connection not measured separately				
G	Allow for trenching works (700mm wide x 800mm deep) for services incl. backfilling with sand and engineered fill on completion:[46 m] :[36 m]	21	m3		
H	Allow for trenching works in road reserve - Outside Site Boundary (700mm wide x 800mm deep) for services incl. backfilling with sand and engineered fill and reinstatement of road on completion:[46 m] :[10 m]	6	m3		

Description	Qty	Unit	Rate	Amount
(CIVILS) SITE SERVICES (Cont)				
COLLECTION				
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(CIVILS) SITE SERVICES				

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