



Quantity Surveyors
Project Managers
Facilities Managers

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TENDER BILL OF QUANTITIES

New Covered Walkway For SPC Narere Campus

**Beumont Rd, Narere, Suva
FIJI**

CLIENT



DATE/REVISION

31 May 2023

Rev 1

	Description	Qty	Unit	Rate	Amount
	<u>PRELIMINARIES</u>				
	<u>GENERALLY</u>				
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		
	<u>DRAWINGS</u>				
B	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		
	<u>SPECIFICATION</u>				
C	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		
	<u>MEASUREMENT AND PRICES</u>				
D	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		
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		
	<u>DESCRIPTION OF THE SITE</u>				
F	The site is situated at Beumont Road, Narere, Suva, Fiji Islands		Note		
G	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		
	<u>LIMITS OF BUILDING SITE</u>				
H	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		
				To Collection \$	

	Qty	Unit	Rate	Amount
<p><u>PRICING OF PRELIMINARIES & CONDITIONS OF CONTRACT</u></p>				
<p>A It is the Tenderers' obligation to refer to all of the tender 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.</p>		Note		
<p><u>BILLS OF QUANTITIES</u></p>				
<p>Qualification</p>				
<p>B 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.</p>		Note		
<p>Status</p>				
<p>C This Bill of Quantities shall form part of the Contract only to the extent provided in the Contract.</p>		Note		
<p>Generally</p>				
<p>D This Bill of Quantities is in an abbreviated format and as such has not been measured in accordance with a standard method of measurement</p>		Note		
<p>E The quantities have been measured in accordance with the Specification and from the Drawings listed in the Specification.</p>		Note		
<p>F Unless otherwise stated, quantities have been measured net as fixed in position.</p>		Note		
<p>Trade Names</p>				
<p>G Where trade names are stated in this Bill of Quantities an approved equivalent may be used if approved by the Architect/Superintendent/Contract Administrator except where otherwise noted in the Specification</p>		Note		
	BQ/2		To Collection \$	

	Description	Qty	Unit	Rate	Amount
<u>BILLS OF QUANTITIES (Cont)</u>					
Provisional Quantities					
A	Where Provisional Quantities are given in the Bill of Quantities the work shall be remeasured in accordance with Specification and Conditions of Contract.		Note		
<u>PRICES GENERALLY; SUPPLY AND FIX (GENERAL CONTRACT)</u>					
B	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 ; handling, hoisting, lowering on site; 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		
C	Prices shall include the supply and delivery of all materials, unless specially noted otherwise.		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		
<u>TAXES AND RELATED CHARGES</u>					
E	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
<u>DIMENSIONS</u>					
F	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
ABBREVIATIONS				
A Where the following abbreviations have been used in this Bill of Quantities they shall have the meaning as shown below:		Note		
B approx. - approximately				
C AS - Australian Standard				
D BMT - base metal thickness				
E CFC - Compressed Fibre Cement				
F CHS - Circular Hollow Section				
G cp - chromium plated				
H dia. - diameter				
J Det. - detail				
K Dwg. - drawing				
L EA - equal angle				
M exc. - exceeding				
N excl. - excluding/exclusive				
P FRC - Fibre Reinforced Concrete				
Q fs - finished size				
R FWG - floor waste gully				
S galv. - galvanized				
T gsm - grams per square metre				
U HMR - Highly Moisture Resistant				
V HW - hardwood				
W ID - internal diameter				
X io - inspection opening				
Y incl. - including/inclusive				
Z KDHW - kiln dried hardwood				
AA Kg - kilogram				
BB kPa - kilopascal				
BQ/4			To Collection \$	

Description		Qty	Unit	Rate	Amount
ABBREVIATIONS (Cont)					
A	kN - kilonewton				
B	m - metre				
C	mm - millimetre				
D	m ² - square metre				
E	m ³ - cubic metre				
F	max. - maximum				
G	min. - minimum				
H	MDF - Medium Density Fibreboard				
J	MGP - machine grade pine				
K	MPa - megapascal				
L	ms - mild steel				
M	nb - nominal bore				
N	No. - number				
P	OD - outside diameter				
Q	PFC - Parallel Flange Channel				
R	pm - pressed metal				
S	ref. - reference				
T	RHS - Rectangular Hollow Section				
U	RL - Reduced Level				
V	RSA - Rolled Steel Angle				
W	RSC - Rolled Steel Channel				
X	Sect. - Section				
Y	s.s. - stainless steel				
Z	scp - satin chromium plated				
AA	SHS - Square Hollow Section				
BB	swd - softwood				
CC	t - tonne				
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
<u>ABBREVIATIONS (Cont)</u>					
A	TFB - Tapered Flange Beam				
B	TFC - Tapered Flange Channel				
C	UA - Unequal angle				
D	UB - Universal Beam				
E	UC - Universal Column				
F	um - micrometre				
G	uPVC - unplasticized polyvinyl chloride				
H	vc - vitrified clay				
J	WB - Welded Beam				
K	WC - water closet				
L	QS - Quantity Surveyor				
<u>PRELIMINARIES & GENERAL REQUIREMENTS</u>					
<p>Note the following items are assumed to be provided by the Principal/Employer are NOT required to be priced by the Contractor</p>					
M	Toilet Facilities		Note		EXCL
N	Storage area for tools		Note		EXCL
P	Area for meals		Note		EXCL
Q	Power and water connction		Note		EXCL
R	All hoarding and safety signage		Note		EXCL
CONTARCTOR'S PRELIMINARY & GENERAL REQUIREMENTS					
S	Construction management including site management staff and support labour	1	Item		
T	Commonly shared construction plant and equipment	1	Item		
U	Materials Handling (Vertical and Horizontal Movement from Client stores on site or delivery area on site)	1	Item		
V	Access / Scaffolding	1	Item		
				To Collection \$	

Description		Qty	Unit	Rate	Amount
PRELIMINARIES & GENERAL REQUIREMENTS					
(Cont)					
CONTARCTOR'S PRELIMINARY & GENERAL REQUIREMENTS (Cont)					
A	Other temporary facilities and services	1	Item		
B	Quality monitoring, recording and inspections	1	Item		
C	Safety, health and environmental management	1	Item		
D	Insurances, bonds, guarantees and warranties	1	Item		
E	Contractor's statutory fees and charges	1	Item		
F	Testing and commissioning	1	Item		
G	Others.....to be scheduled by the Contractor if necessary	1	Item		
H	.....	1	Item		
J	.....	1	Item		
K	.....	1	Item		
L	.....	1	Item		
				To Collection \$	

	Qty	Unit	Rate	Amount
<u>DEMOLITION</u>				
<u>GENERALLY</u>				
Drawings & Specification				
A				
<p>The Tenderer shall refer to the Drawings and Specification 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. 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.</p>		Note		
Method of Measurement				
B				
<p>This Bill of Quantities is in an abbreviated format and as such has not been measured in accordance with a standard method of measurement</p>		Note		
Dimensions				
C				
<p>All dimensions given in item descriptions are in mm unless otherwise described.</p>		Note		
<u>TAXES AND RELATED CHARGES</u>				
D				
<p>All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)</p>		Note		
<u>MEASUREMENT AND PRICES</u>				
E				
<p>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</p>		Note		
Measurement and prices are deemed to include for:				
F				
<p>Removing all rubbish and debris, making good to work disturbed, temporary shoring (Other than designed shoring or similar items).</p>		Note		
			To Collection \$	

Description	Qty	Unit	Rate	Amount
MEASUREMENT AND PRICES (Cont)				
Measurement and prices are deemed to include for: (Cont)				
A Wheeling, basketing or hoisting out demolished material prior to disposal, keeping area free from debris and falling materials, stockpiling demolished material on site prior to removal from site.				
GENERAL ITEMS				
B Allow for inspections as specified	1	Item		
C Disconnecting and sealing off services not documented	1	Item		
DEMOLITION				
Zone B				
D Demolish existing concrete footpath complete with steps/stairs/ramps and dispose	15	m2		
E Demolish existing excess concrete along floor slab, dispose and make good	2	m2		
F Demolish existing concrete slab to allow C1/F1 - 375mm dia pad, dispose and make good	5	no.		
G Remove existing road kerbs and relocate to allow 3m wide driveway	8.60	m		
H Remove existing gravel to allow for new footpath works	16	m2		
Zone D				
J Demolish existing concrete slab to allow C1/F1 - 375mm dia pad and make good	3	no.		
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>GROUND WORKS</u>				
	<u>GENERALLY</u>				
	Drawings & Specification				
A	The Tenderer shall refer to the Drawings and Specification 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. 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		
	Method of Measurement				
B	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		
	Dimensions				
C	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	<u>TAXES AND RELATED CHARGES</u>				
D	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
	<u>MEASUREMENT AND PRICES</u>				
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		
	Measurement and prices are deemed to include for:				
F	Compacting excavated surfaces, keeping excavation sides plumb, backfilling, wheeling, basketing or hoisting out excavated material prior to disposal, consolidating and disposing surplus spoil as directed		Note		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>GENERAL ITEMS</u>				
A	Allow for inspections as specified	1	Item		
	<u>DETAILED EXCAVATION</u>				
	Zone A				
	<u>DETAILED EXCAVATION; in material as found</u>				
B	Excavate for isolated pad footings [C1/F1]	2	m3		
C	Excavate for slab thickening [SET1]	1	m3		
D	150mm thick compacted hardfill under slabs	4	m2		
E	50mm thick sand blinding over hardfill	4	m2		
F	200 microns visqueen dpc over 50mm thick sand blinding	4	m2		
	Zone B				
	<u>DETAILED EXCAVATION; in material as found - Walkways</u>				
G	Excavate for isolated pad footings [C1/F1]	9	m3		
H	Excavate for strip footing [SF1]	3	m3		
J	Excavate for slab thickening [SET1, SET2 & SET3]	4	m3		
K	150mm thick compacted hardfill under slabs	74	m2		
L	50mm thick sand blinding over hardfill	74	m2		
M	200 microns visqueen dpc over 50mm thick sand blinding	74	m2		
	<u>Existing Driveway Widening</u>				
N	Excavate for widening existing roadway to allow 3m driveway	1	m3		
P	Allow to compact 150mm thick gravelling relocated from area allowing new footpath. Assume existing gravel reused.	7	m2		
	Zone C				
	<u>DETAILED EXCAVATION; in material as found</u>				
Q	Excavate for isolated pad footings	8	m3		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>DETAILED EXCAVATION (Cont)</u>				
Zone D				
<u>DETAILED EXCAVATION; in material as found</u>				
A Excavate for isolated pad footings	5	m3		
B Excavate for slab thickening [SET1]	1	m3		
C 150mm thick compacted hardfill under slabs	3	m2		
D 50mm thick sand blinding over hardfill	3	m2		
E 200 microns visqueen dpc over 50mm thick sand blinding	3	m2		
To Collection \$				

	Qty	Unit	Rate	Amount
<u>IN SITU CONCRETE WORKS</u>				
<u>GENERALLY</u>				
Drawings & Specification				
<p>A The Tenderer shall refer to the Drawings and Specification 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. 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.</p>		Note		
Method of Measurement				
<p>B This Bill of Quantities is in an abbreviated format and as such has not been measured in accordance with a standard method of measurement</p>		Note		
Dimensions				
<p>C All dimensions given in item descriptions are in mm unless otherwise described.</p>		Note		
<u>TAXES AND RELATED CHARGES</u>				
<p>D All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)</p>		Note		
<u>MEASUREMENT AND PRICES</u>				
<p>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</p>		Note		
<p>F Measurement and prices deemed to include for: Supply and 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</p>		Note		
BQ/13			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>MEASUREMENT AND PRICES (Cont)</u>				
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		
G	Quantities are measured nett with no allowance in for waste		Note		
	<u>GENERAL ITEMS</u>				
H	Allow for inspections as specified	1	Item		
J	Allow for all costs of scabbling concrete as required	1	Item		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>GENERAL ITEMS (Cont)</u>				
A Allow for all costs of cleaning rough surfaces	1	Item		
<u>REINFORCED CONCRETE; GRADE 25 MPa to:</u>				
Zone A				
B Mass concrete to Isolated pad footings [C1/F1]	2	m3		
C Slab thickening [SET1]	1	m3		
D 100mm thick reinforced concrete slab	1	m3		
Zone B				
E Mass concrete to Isolated pad footings [C1/F1]	9	m3		
F Strip footing [SF1]	2	m3		
G Slab thickening [SET1, SET2 & SET3]	4	m3		
H Slab thickening [F2] to ramps	2	m3		
J 100mm thick reinforced concrete slab	6	m3		
K 100mm thick reinforced concrete slab to ramps	4	m3		
Zone C				
L Mass concrete to Isolated pad footings [C1/F1 and C2/F2]	8	m3		
Zone D				
M Mass concrete to Isolated pad footings [C1/F1 and C2/F2]	5	m3		
N Slab thickening [SET1]	1	m3		
P 100mm thick reinforced concrete slab	1	m3		
<u>INTEGRAL FINISHES</u>				
Zone A				
Q Steel trowel finish to top of post footings (375 dia overall) [C1/F1]	17	no.		
R Steel trowel finish to edges of Slab thickening [SET1]	7	m		
S Exposed aggregate finish to 100mm thick reinforced concrete slab	4	m2		
			To Collection \$	

Description		Qty	Unit	Rate	Amount
INTEGRAL FINISHES (Cont)					
Zone B					
A	Steel trowel finish to top of post footings (375 dia overall) [C1/F1]	108	no.		
B	Steel trowel finish to edges of Slab thickening [SET1, SET2 & SET3]	13	m2		
C	Steel trowel finish to edges of Slab thickening Slab thickening [F2] to ramps	11	m2		
D	Exposed aggregate finish to 100mm thick reinforced concrete slab	54	m2		
E	Exposed aggregate finish to 100mm thick reinforced concrete slab to ramps	34	m2		
Zone C					
F	Steel trowel finish to top of post footings (375 dia overall) [C1/F1]	8	no.		
G	Steel trowel finish to top of post footings (700 dia overall) [C2/F2]	20	no.		
Zone D					
H	Steel trowel finish to top of post footings (375 dia overall) [C1/F1]	8	no.		
J	Steel trowel finish to top of post footings (700 dia overall) [C2/F2]	13	no.		
K	Steel trowel finish to edges of Slab thickening [SET1]	4	m		
L	Exposed aggregate finish to 100mm thick reinforced concrete slab	3	m2		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>REINFORCEMENT</u>				
<u>GENERALLY</u>				
Drawings & Specification				
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Method of Measurement				
B 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		
Dimensions				
C All dimensions given in item descriptions are in mm unless otherwise described.		Note		
<u>TAXES AND RELATED CHARGES</u>				
D All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
<u>MEASUREMENT AND PRICES</u>				
E Prices are to reflect this document as a "Builder's 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 ¹ .		Note		
			To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>MEASUREMENT AND PRICES (Cont)</u>				
A Measurement and prices for reinforcement shall be deemed to include for tying line to bundled bars.		Note		
B 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		
C 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		
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		
<u>GENERAL ITEMS</u>				
G All necessary test certificates and test as specified	1	Item		
H Inspections as specified	1	Item		
J Preparation of all bending schedules as specified	1	Item		
<u>Grade 300 Bar Reinforcement to:</u>				
Zone A				
K D16 spikes to Isolated pad footings	0.03	tonne		
L D10 and D12 bars to 100mm thick reinforced concrete Slab and Slab Thickening [SET1]	0.03	tonne		
M Extra Value for Drill and epoxy D10 bars 100mm minimum into existing slab	10	no.		
			To Collection \$	

Description		Qty	Unit	Rate	Amount
<u>Grade 300 Bar Reinforcement to: (Cont)</u>					
Zone B					
A	D16 spikes to Isolated pad footings	0.20	tonne		
B	D16 bars with R10 ties at 200crs to Strip footing [SF1]	0.09	tonne		
C	D12 starter bars to Strip Footing [SF1]	0.02	tonne		
D	D10 and D12 bars to Slab and Slab thickening [SET1, SET2 & SET3]	0.25	tonne		
E	D10 and D12 bars to 100mm thick reinforced concrete slab to ramps and thickening [F2]	0.12	tonne		
F	Extra Value for Drill and epoxy D10 bars 100mm minimum into existing slab	172	no.		
Zone C					
G	D16 spikes to Isolated pad footings	0.07	tonne		
Zone D					
H	D16 spikes to Isolated pad footings	0.05	tonne		
J	D10 and D12 bars to 100mm thick reinforced concrete Slab and Slab Thickening [SET1]	0.02	tonne		
K	Extra Value for Drill and epoxy D10 bars 100mm minimum into existing slab	10	no.		
<u>Mesh Reinforcement to:</u>					
Zone A					
L	665 mesh to 100mm thick reinforced concrete slab	4	m2		
Zone B					
M	665 mesh to 100mm thick reinforced concrete slab	54	m2		
N	665 mesh to 100mm thick reinforced concrete slab to ramps	34	m2		
Zone D					
P	665 mesh to 100mm thick reinforced concrete slab	3	m2		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>FORMWORK</u>				
	<u>GENERALLY</u>				
	Drawings & Specification				
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	Method of Measurement				
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	Dimensions				
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	<u>TAXES AND RELATED CHARGES</u>				
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	<u>MEASUREMENT AND PRICES</u>				
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				To Collection \$	

Description	Qty	Unit	Rate	Amount
MEASUREMENT AND PRICES (Cont)				
A 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		
B 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		
C Measurement and prices deemed to include for formwork to chamfered edges and splayed internal angles and drip grooves up to 50mm wide on face		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		
GENERAL ITEMS				
H Inspections as specified	1	Item		
Conventional Formwork - Class 3 Finish to:				
Zone A				
J Edge of Slab thickening, 300-400mm high [SET1]	3	m2		
Zone B				
K Edge of slab thickening not exceeding 200mm [SF1]	13	m		
			To Collection \$	

Description	Qty	Unit	Rate	Amount
Conventional Formwork - Class 3 Finish to: (Cont)				
Zone B (Cont)				
A Edge of Slab thickening, 300-400mm high [SET1, SET2 & SET3]	29	m2		
B Sides of Slab thickening [F2] to ramps	11	m2		
Zone D				
C Edge of Slab thickening, 300-400mm high [SET1]	2	m2		
BQ/22			To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>BLOCKWORK</u>				
<u>GENERALLY</u>				
Drawings & Specification				
A The Tenderer shall refer to the Drawings and Specification 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. 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		
Method of Measurement				
B 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		
Dimensions				
C All dimensions given in item descriptions are in mm unless otherwise described.		Note		
<u>TAXES AND RELATED CHARGES</u>				
D All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
<u>WORK IN OTHER SECTIONS</u>				
E REINFORCEMENT ¹ - Starter bars for Masonry walls		Note		
<u>MEASUREMENT AND PRICES</u>				
F Prices are to reflect this document as a "Builder's 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		
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>MEASUREMENT AND PRICES (Cont)</u>				
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	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 foregoing prices clauses, prices for masonry will be deemed to include for all ties and anchors at junctions, intersections and corners or masonry		Note		
	<u>GENERAL ITEMS</u>				
E	Inspections as specified	1	Item		
	<u>150mm series blockwork to Sub:</u>				
	Zone B				
F	Strip footing [SF1]	3	m2		
G	17.5Mpa corefill to blockwork	1	m3		
To Collection \$					

Description	Qty	Unit	Rate	Amount
<u>150mm series blockwork to Sub: (Cont)</u> Zone B (Cont)				
A Reinforcement to blockwork - measured under Reinforcement trade [SF1]		note		
To Collection \$				

	Description	Qty	Unit	Rate	Amount
<u>CARPENTRY</u>					
<u>GENERALLY</u>					
Drawings & Specification					
A	The Tenderer shall refer to the Drawings and Specification 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. 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		
Method of Measurement					
B	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		
Dimensions					
C	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
<u>TAXES AND RELATED CHARGES</u>					
D	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
<u>MEASUREMENT AND PRICES</u>					
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	Work fixed by nailing unless described otherwise		Note		
Measurement and prices are deemed to include for:					
G	Labours such as rebating, checking, grooving, chamfering, splaying, bevelling, tapering, bullnosing, tapering, moulding and similar items		Note		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
MEASUREMENT AND PRICES (Cont)					
Measurement and prices are deemed to include for: (Cont)					
A	All labours in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar items		Note		
GENERAL ITEMS					
B	Inspections as specified	1	Item		
C	Providing warranties as required	1	Item		
D	Submissions as specified	1	Item		
E	Samples as specified	1	Item		
F	Maintenance manuals as specified	1	Item		
Zone A					
COLUMNS/POSTS					
G	Structural Timber Posts; 125dia Fiji C-Select H4 preservative treated pine posts [3/3m,3/3.3m,7/3.6m,2/3.9m & 2/4.2m]	54	m		
ROOF FRAMING					
<u>Structural framing timber generally; Fiji C-select, Stress Grade F8 seasoned and preservative treated</u>					
<u>Grid 1-4</u>					
H	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	15	m		
J	Ex 100 x 50 timber rafters at 900crs max	23	m		
K	Ex 75 x 50 purlins at 750crs max	30	m		
L	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	18	m		
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)					
<i>Bolted connections</i>					
M	M16 x 180mm long Bolt and nut (post and beam connection)	8	no		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
Zone A (Cont)				
ROOF FRAMING (Cont)				
<u>Grid 1-4 (Cont)</u>				
Bolts and connections; refer Structural Details (ref dwg. S117 & S118) (Cont)				
<i>Galvanised Strap connections</i>				
A	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	18	no	
B	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	40	no	
Cross bracing				
C	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	9	m	
<u>Roof 1</u>				
D	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	11	m	
E	Ex 100 x 50 timber rafters at 900crs max	21	m	
F	Ex 75 x 50 purlins at 750crs max	23	m	
G	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	14	m	
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
<i>Bolted connections</i>				
H	M16 x 180mm long Bolt and nut (post and beam connection)	12	no	
<i>Galvanised Strap connections</i>				
J	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	16	no	
K	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	36	no	
To Collection \$				

	Description	Qty	Unit	Rate	Amount
	Zone A (Cont)				
	ROOF FRAMING (Cont)				
	<u>Roof 1 (Cont)</u>				
	Cross bracing				
A	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	8	m		
	<u>Roof 2</u>				
B	Ex 150 x 50 timber rafters bolted to Posts with 2/M16 bolt and nut. Rafters check 20mm into post.	6	m		
C	Ex 150 x 50 timber rafters dyna bolted to existing wall	2	m		
D	Ex 75 x 50 purlins at 750crs max	13	m		
E	Ex 75 x 50 timber packer fixed to the end of rafters for fascia board connection	5	m		
	Bolts and connections; refer Structural Details				
	<i>Bolted connections</i>				
F	M16 x 200mm long Bolt and nut (post and rafter connection)	2	no		
G	M16 x 150mm long dyna bolt to existing wall (rafter to concrete wall connection)	3	no		
	<i>Multi-Grips connections; 100x36x36mm galv. fixed with 35 x 3.15 dia. nails in all holes</i>				
H	150 x 50mm rafters to Existing Fascia board	5	no		
	<i>Galvanised Strap connections</i>				
J	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	15	no		
	Cross bracing (ref dwg. S102 R01)				
K	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	9	m		
	<u>Grid 7 -11</u>				
L	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	10	m		

	Description	Qty	Unit	Rate	Amount
Zone A (Cont)					
ROOF FRAMING (Cont)					
<u>Grid 7 -11 (Cont)</u>					
A	Ex 100 x 50 timber wall plate dyna bolted with M16 x 150mm long dyna bolts to existing RC Wall at 600crs	10	m		
B	Ex 100 x 50 timber rafters at 900crs max	28	m		
C	Ex 75 x 50 purlins at 750crs max	38	m		
D	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	15	m		
Bolts and connections; refer Structural Details (ref dwg. S104)					
<i>Bolted connections</i>					
E	M16 x 180mm long Bolt and nut (post and beam connection)	10	no		
F	M16 x 150mm long dyna bolt to existing wall (wall plate connection)	16	no		
<i>Multi-Grips connections; 100x36x36mm galv. fixed with 35 x 3.15 dia. nails in all holes</i>					
G	100 x 50mm rafters to 100 x 50mm wall plate	22	no		
H	75 x 50mm fascia packer timber to 100 x 50mm wall plate	2	no.		
<i>Galvanised Strap connections</i>					
J	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	11	no		
K	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	52	no		
Cross bracing (ref dwg. S102 R01)					
L	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	16	m		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	Zone A (Cont)				
	FASCIA & BARGE BOARDS				
	<u>10mm Fibre cement fascia/barge board screw fixed to timber framing</u>				
A	Grid 1-4; 120mm high	20	m		
B	Roof 1; 120mm high	17	m		
C	Roof 2; 170mm high	6	m		
D	Grid 7 -11; 120mm high	15	m		
	Zone B				
	COLUMNS/POSTS				
E	Structural Timber Posts; 125dia Fiji C-Select H4 preservative treated pine posts [25/3m,32/3.3m,41/3.6m,10/3.9m]	368	m		
	ROOF FRAMING				
F	All bolts, nuts, washers and coach screws/bolts to be Galvanized 4.8 <u>Structural framing timber generally; Fiji C-select, Stress Grade F8 seasoned and preservative treated</u>				
	<u>Grid 1-2</u>				
G	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	8	m		
H	Ex 100 x 50 timber rafters at 900crs max	12	m		
J	Ex 75 x 50 purlins at 750crs max	16	m		
K	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	11	m		
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
	<i>Bolted connections</i>				
L	M16 x 180mm long Bolt and nut (post and beam connection)	10	no		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
Zone B (Cont)				
ROOF FRAMING (Cont)				
<u>Grid 1-2 (Cont)</u>				
Bolts and connections; refer Structural Details (ref dwg. S117 & S118) (Cont)				
<i>Galvanised Strap connections</i>				
A	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	10	no	
B	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	23	no	
Cross bracing				
C	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	8	m	
<u>Roof A</u>				
D	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	15	m	
E	Ex 100 x 50 timber rafters at 900crs max	20	m	
F	Ex 75 x 50 purlins at 750crs max	29	m	
G	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	15	m	
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
<i>Bolted connections</i>				
H	M16 x 180mm long Bolt and nut (post and beam connection)	16	no	
<i>Galvanised Strap connections</i>				
J	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	18	no	
K	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	36	no	
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	Zone B (Cont)				
	ROOF FRAMING (Cont)				
	<u>Roof A (Cont)</u>				
	Cross bracing				
A	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	13	m		
	<u>Grid 5-13</u>				
B	Ex 150 x 50 timber rafters bolted to Posts with 2/M16 bolt and nut. Rafters check 20mm into post.	38	m		
C	Ex 100 x 50 timber rafters at 900crs max	51	m		
D	Ex 75 x 50 purlins at 750crs max	76	m		
E	Ex 75 x 50 timber packer fixed to the end of rafters for fascia board connection	38	m		
	Bolts and connections; refer Structural Details				
	<i>Metal Brackets</i>				
F	70 x 75L x 125long x 8mm MS Plate drilled for 2-M12 bolts and 2-M12 Coach screws; Surface preped and painted with Resene Zinc epoxy primer and Resene High Build Epoxy or equivalent approved by architect	8	no.		
G	M12 x 75mm long Bolt and nut (metal bracket to rafter/brace connection)	16	no.		
H	M12 x 100mm long Coach Screws (ref S121 Construction details)	6	no.		
	<i>Bolted connections</i>				
J	M16 x 180mm long Bolt and nut (post and beam connection)	36	no		
	<i>Galvanised Strap connections</i>				
K	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	46	no		
L	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	92	no		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>Zone B (Cont)</u>				
	ROOF FRAMING (Cont)				
	<u>Grid 5-13 (Cont)</u>				
	Cross bracing				
A	25x1.2mm galv. strap cross brace with 33.15 \emptyset x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	27	m		
	<u>Roof B</u>				
B	Ex 150 x 75 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	10	m		
C	Ex 150 x 50 timber rafters at 900crs max	25	m		
D	Ex 75 x 50 purlins at 750crs max	32	m		
E	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	15	m		
	Bolts and connections; refer Structural Details				
	<i>Bolted connections</i>				
F	M16 x 200mm long Bolt and nut (post and beam connection)	14	no		
	<i>Galvanised Strap connections</i>				
G	2 x 100 long nails skewed to beam and 450 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	12	no		
H	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	48	no		
	Cross bracing				
J	25x1.2mm galv. strap cross brace with 33.15 \emptyset x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	14	m		
	<u>Roof C</u>				
K	Ex 150 x 50 timber wall plate fixed to existing timber Wall at 600crs	4	m		
L	Ex 150 x 50 timber rafters at 900crs max	11	m		
M	Ex 75 x 50 purlins at 750crs max	13	m		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	Zone B (Cont)				
	ROOF FRAMING (Cont)				
	<u>Roof C (Cont)</u>				
A	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	4	m		
B	Ex 200 x 50 Support timber bolted to Roof E posts. Check 20mm into posts.	4	m		
	Bolts and connections; refer Structural Details				
	<i>Bolted connections</i>				
C	M16 x 200mm long Bolt and nut (post and rafter connection)	6	no		
D	M16 x 180mm long Bolt and nut (post and support connection)	4	no.		
E	M16 x 150mm long coach bolts at 600crs (wall plate to existing timber wall)	8	no.		
	<i>Multi-Grips connections; 100x36x36mm galv. fixed with 35 x 3.15 dia. nails in all holes</i>				
F	150 x 50mm rafters to 150 x 50mm wall plate/Support timber	12	no		
G	75 x 50mm fascia packer timber to 150 x 50mm wall plate/support timber	4	no.		
	<i>Galvanised Strap connections</i>				
H	2 x 100 long nails skewed to wall plate (rafter to wall plate)	6	no		
J	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	24	no		
	Cross bracing				
K	25x1.2mm galv. strap cross brace with 33.15 ϕ x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	8	m		
	<u>Roof D</u>				
L	Ex 150 x 50 timber wall plate fixed to existing timber Wall at 600crs	3	m		
M	Ex 150 x 50 timber rafters at 900crs max	8	m		
N	Ex 75 x 50 purlins at 750crs max	10	m		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>Zone B (Cont)</u>				
	<u>ROOF FRAMING (Cont)</u>				
	<u>Roof D (Cont)</u>				
A	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	4	m		
B	Ex 200 x 50 Support timber bolted to Roof F posts. Check 20mm into posts. Bolts and connections; refer Structural Details <i>Bolted connections</i>	3	m		
C	M16 x 200mm long Bolt and nut (post and rafter connection)	4	no		
D	M16 x 150mm long coach bolts at 600crs (wall plate to existing timber wall) <i>Multi-Grips connections; 100x36x36mm galv. fixed with 35 x 3.15 dia. nails in all holes</i>	5	no.		
E	150 x 50mm rafters to 150 x 50mm wall plate	8	no		
F	75 x 50mm fascia packer timber to 150 x 50mm wall plate <i>Galvanised Strap connections</i>	4	no.		
G	2 x 100 long nails skewed to wall plate (rafter to wall plate)	4	no		
H	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter) Cross bracing	6	no		
J	25x1.2mm galv. strap cross brace with 33.15 \emptyset x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	6	m		
	<u>Roof E</u>				
K	Ex 150 x 50 timber rafters at 900crs max	20	m		
L	Ex 75 x 50 purlins at 750crs max	31	m		
M	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	23	m		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
Zone B (Cont)				
ROOF FRAMING (Cont)				
<u>Roof E (Cont)</u>				
Bolts and connections; refer Structural Details (ref dwg. S104)				
<i>Bolted connections</i>				
A	10	no		
M16 x 180mm long Bolt and nut (post and rafter connection)				
<i>Galvanised Strap connections</i>				
B	56	no		
1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)				
Cross bracing (ref dwg. S102 R01)				
C	12	m		
25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends				
<u>Roof F</u>				
D	16	m		
Ex 150 x 50 timber rafters at 900crs max				
E	27	m		
Ex 75 x 50 purlins at 750crs max				
F	18	m		
Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection				
Bolts and connections; refer Structural Details (ref dwg. S104)				
<i>Bolted connections</i>				
G	16	no		
M16 x 180mm long Bolt and nut (post and rafter connection)				
<i>Galvanised Strap connections</i>				
H	48	no		
1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)				
Cross bracing (ref dwg. S102 R01)				
J	12	m		
25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends				
			To Collection \$	

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Description	Qty	Unit	Rate	Amount
Zone B (Cont)				
ROOF FRAMING (Cont)				
<u>Grid 14-31</u>				
A	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	87	m	
B	Ex 100 x 50 timber rafters at 900crs max	129	m	
C	Ex 75 x 50 purlins at 750crs max	173	m	
D	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	94	m	
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
<i>Bolted connections</i>				
E	M16 x 180mm long Bolt and nut (post and beam connection)	78	no	
<i>Galvanised Strap connections</i>				
F	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	101	no	
G	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	213	no	
Cross bracing				
H	25x1.2mm galv. strap cross brace with 3.15 x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	48	m	
<u>Entry to PHD Building</u>				
J	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	9	m	
K	Ex 100 x 50 timber rafters at 900crs max	15	m	
L	Ex 75 x 50 purlins at 750crs max	17	m	
M	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	11	m	
			To Collection \$	

Description	Qty	Unit	Rate	Amount
Zone B (Cont)				
ROOF FRAMING (Cont)				
<u>Entry to PHD Building (Cont)</u>				
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
<i>Bolted connections</i>				
A M16 x 180mm long Bolt and nut (post and beam connection)	8	no		
<i>Galvanised Strap connections</i>				
B 2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	12	no		
C 1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	28	no		
Cross bracing				
D 25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	10	m		
<u>Grid 31-40</u>				
E Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	47	m		
F Ex 100 x 50 timber rafters at 900crs max	73	m		
G Ex 75 x 50 purlins at 750crs max	95	m		
H Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	53	m		
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
<i>Bolted connections</i>				
J M16 x 180mm long Bolt and nut (post and beam connection)	44	no		
<i>Galvanised Strap connections</i>				
K 2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	56	no		
BQ/39			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	Zone B (Cont)				
	ROOF FRAMING (Cont)				
	<u>Grid 31-40 (Cont)</u>				
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118) (Cont)				
A	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	121	no		
	Cross bracing				
B	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	29	m		
	<u>Grid 40-43</u>				
C	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	9	m		
D	Ex 100 x 50 timber wall plate dyna bolted to existing concrete wall	9	m		
E	Ex 100 x 50 timber rafters at 900crs max	23	m		
F	Ex 75 x 50 purlins at 750crs max	35	m		
G	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	9	m		
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
	<i>Bolted connections</i>				
H	M16 x 180mm long Bolt and nut (post and beam connection)	8	no		
	<i>Galvanised Strap connections</i>				
J	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	11	no		
K	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	44	no		
	Cross bracing				
L	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	18	m		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	Zone B (Cont)				
	ROOF GUTTER FRAMING				
	<u>Gutter Framing - Structural framing timber generally; Fiji C-select, Stress Grade F8 seasoned and preservative treated</u>				
A	50mm x 50mm Framing to Box Gutter to Roof C & D	18	m		
	BOARDING				
	ROOF MEMBRANE SUBSTRATE				
	12mm exterior ply screw fixed to the following membrane roofs and associated box gutters (ref details on S118)				
B	Roof C And D	2	m2		
	FASCIA & BARGE BOARDS				
	<u>10mm Fibre cement fascia/barge board screw fixed to timber framing</u>				
C	Zone B; 200mm high	132	m		
D	Zone B; 120mm high	170	m		
	Zone C				
	COLUMNS/POSTS				
E	Structural Timber Posts; 125dia Fiji C-Select H4 preservative treated pine posts [8/3.3m]	27	m		
F	Structural Timber Posts; 200dia Fiji C-Select H4 preservative treated pine posts [16/3.6m,2/3.9m,2/4.8]	75	m		
	ROOF FRAMING				
	<u>Structural framing timber generally; Fiji C-select, Stress Grade F8 seasoned and preservative treated</u>				
	<u>Grid 1-2 - Roof A</u>				
G	Ex 150 x 50 timber rafters fixed to posts with 2xM16 bolt and nut. Rafter check 20mm into post.	13	m		
H	Ex 75 x 50 purlins at 750crs max	18	m		
J	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	13	m		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
Zone C (Cont)				
ROOF FRAMING (Cont)				
<u>Grid 1-2 - Roof A (Cont)</u>				
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
<i>Metal Brackets</i>				
A	300 x 100 x 8mm MS Plate drilled for 2-M16 bolts; Surface preped and painted with Resene Zinc epoxy primer and Resene High Build Epoxy or equivalent approved by architect	3	no.	
B	M16 x 75mm long Bolt and nut (metal bracket to rafter/brace connection)	6	no.	
<i>Bolted connections</i>				
C	M16 x 180mm long Bolt and nut (post and rafter connection)	2	no	
D	M16 x 240mm long Bolt and nut (post and rafter connection)	1	no.	
<i>Galvanised Strap connections</i>				
E	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	25	no	
<i>Cross bracing</i>				
F	25x1.2mm galv. strap cross brace with 33.15 ϕ x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	8	m	
<u>Roof B</u>				
G	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	3	m	
H	Ex 150 x 50 timber rafters at 900crs max	7	m	
J	Ex 75 x 50 purlins at 750crs max	10	m	
K	Ex 75 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	7	m	
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	Zone C (Cont)				
	ROOF FRAMING (Cont)				
	<u>Roof B (Cont)</u>				
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
	<i>Bolted connections</i>				
A	M16 x 180mm long Bolt and nut (post and beam connection)	4	no		
	<i>Galvanised Strap connections</i>				
B	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	4	no		
C	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	18	no		
	<i>Cross bracing</i>				
D	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	7	m		
	<u>Roof C</u>				
E	Ex 200mm x 50mm exterior timber framing fixed to posts with 2xM16 bolt and nut. Framing check 20mm into post.	8	m		
F	Ex 150mm x 50mm timber rafters at 400crs	3	m		
G	Ex 100mm x 50mm timber support fixed to 200 x 50 framing)	4	m		
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
	<i>Bolted connections</i>				
H	M16 x 180mm long Bolt and nut (post and beam connection)	4	no		
	<u>Roof D</u>				
J	Ex 150 x 50 timber rafters fixed to posts with 2xM16 bolt and nut. Rafters check 20mm into post.	9	m		
K	Ex 75 x 50 purlins at 750crs max	14	m		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	Zone C (Cont)				
	ROOF FRAMING (Cont)				
	<u>Roof D (Cont)</u>				
A	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	13	m		
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
	<i>Bolted connections</i>				
B	M16 x 180mm long Bolt and nut (post and beam connection)	12	no		
	<i>Galvanised Strap connections</i>				
C	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	24	no		
	Cross bracing				
D	25x1.2mm galv. strap cross brace with 33.15 ϕ x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	9	m		
	<u>Grid 2-17</u>				
E	Ex 150 x 50 timber rafters fixed to posts with 2xM16 bolt and nut. Rafter check 20mm into post.	121	m		
F	Ex 75 x 50 purlins at 750crs max	195	m		
G	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	78	m		
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
	<i>Metal Brackets</i>				
H	300 x 100 x 8mm MS Plate drilled for 2-M16 bolts; Surface preped and painted with Resene Zinc epoxy primer and Resene High Build Epoxy or equivalent approved by architect	30	no.		
J	M16 x 75mm long Bolt and nut (metal bracket to rafter/brace connection)	60	no.		
	<i>Bolted connections</i>				
K	M16 x 180mm long Bolt and nut (post and rafter connection)	4	no		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>Zone C (Cont)</u>				
ROOF FRAMING (Cont)				
<u>Grid 2-17 (Cont)</u>				
Bolts and connections; refer Structural Details (ref dwg. S117 & S118) (Cont)				
A	M16 x 240mm long Bolt and nut (post and rafter connection)	30	no.	
<i>Galvanised Strap connections</i>				
B	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	150	no	
Cross bracing				
C	25x1.2mm galv. strap cross brace with 33.15 ϕ x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	29	m	
<u>Grid 17-20 - Roof E</u>				
D	Ex 150 x 50 timber rafters fixed to posts with 2xM16 bolt and nut. Rafter check 20mm into post.	29	m	
E	Ex 75 x 50 purlins at 750crs max	47	m	
F	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	24	m	
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
<i>Metal Brackets</i>				
G	300 x 100 x 8mm MS Plate drilled for 2-M16 bolts; Surface preped and painted with Resene Zinc epoxy primer and Resene High Build Epoxy or equivalent approved by architect	7	no.	
H	M16 x 75mm long Bolt and nut (metal bracket to rafter/brace connection)	14	no.	
<i>Bolted connections</i>				
J	M16 x 180mm long Bolt and nut (post and rafter connection)	2	no	
K	M16 x 240mm long Bolt and nut (post and rafter connection)	6	no.	
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	Zone C (Cont)				
	ROOF FRAMING (Cont)				
	<u>Grid 17-20 - Roof E (Cont)</u>				
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118) (Cont)				
	<i>Galvanised Strap connections</i>				
A	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	45	no		
	Cross bracing				
B	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	8	m		
	BOARDING				
	<u>ROOF MEMBRANE SUBSTRATE</u>				
	12mm exterior ply screw fixed to the following membrane roofs and associated box gutters (ref details on S118)				
C	Roof C	3	m2		
	FASCIA & BARGE BOARDS				
	<u>10mm Fibre cement fascia/verge board screw fixed to timber framing</u>				
D	Zone C; 180mm high	146	m		
	Zone D				
	COLUMNS/POSTS				
E	Structural Timber Posts; 125dia Fiji C-Select H4 preservative treated pine posts [4/3m,4/3.3m]	26	m		
F	Structural Timber Posts; 200dia Fiji C-Select H4 preservative treated pine posts [13/3.6m]	4	m		
	ROOF FRAMING				
	<u>Structural framing timber generally; Fiji C-select, Stress Grade F8 seasoned and preservative treated</u>				
	<u>Roof A</u>				
G	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	10	m		
				To Collection \$	

Description		Qty	Unit	Rate	Amount
Zone D (Cont)					
ROOF FRAMING (Cont)					
<u>Roof A (Cont)</u>					
A	Ex 150 x 50 timber rafters at 900crs max	18	m		
B	Ex 75 x 50 purlins at 750crs max	27	m		
C	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	17	m		
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)					
<i>Bolted connections</i>					
D	M16 x 180mm long Bolt and nut (post and beam connection)	8	no		
<i>Galvanised Strap connections</i>					
E	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	12	no		
F	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	40	no		
Cross bracing					
G	25x1.2mm galv. strap cross brace with 33.15 ϕ x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	11	m		
<u>Roof B</u>					
H	Ex 150 x 50 timber beams fixed to posts with 2xM16 bolt and nut. Beam check 20mm into post.	10	m		
J	Ex 150 x 50 timber rafters at 900crs max	18	m		
K	Ex 75 x 50 purlins at 750crs max	27	m		
L	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	17	m		
Bolts and connections; refer Structural Details (ref dwg. S117 & S118)					
<i>Bolted connections</i>					
M	M16 x 180mm long Bolt and nut (post and beam connection)	8	no		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>Zone D (Cont)</u>				
	ROOF FRAMING (Cont)				
	<u>Roof B (Cont)</u>				
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118) (Cont)				
	<i>Galvanised Strap connections</i>				
A	2 x 100 long nails skewed to beam and 350 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (rafter to beam)	12	no		
B	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	40	no		
	<i>Cross bracing</i>				
C	25x1.2mm galv. strap cross brace with 33.15 ϕ x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	11	m		
	<u>Grid 1-13</u>				
D	Ex 150 x 50 timber rafters fixed to posts with 2xM16 bolt and nut. Rafter check 20mm into post.	98	m		
E	Ex 75 x 50 purlins at 750crs max	110	m		
F	Ex 100 x 50 timber packer fixed to the end of rafters/overhang for fascia board connection	60	m		
	Bolts and connections; refer Structural Details (ref dwg. S117 & S118)				
	<i>Metal Brackets</i>				
G	300 x 100 x 8mm MS Plate drilled for 2-M16 bolts; Surface preped and painted with Resene Zinc epoxy primer and Resene High Build Epoxy or equivalent approved by architect	26	no.		
H	M16 x 75mm long Bolt and nut (metal bracket to rafter/brace connection)	52	no.		
	<i>Bolted connections</i>				
J	M16 x 240mm long Bolt and nut (post and rafter connection)	26	no.		
	<i>Galvanised Strap connections</i>				
K	1 -75mm purlin screw; 275 x 37 x 1.2mm galv. strap; 3 - 3.15 dia x 38mm long clout nails in each leg (purlin to rafter)	112	no		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
Zone D (Cont)	ROOF FRAMING (Cont)				
<u>Grid 1-13 (Cont)</u>	Cross bracing				
A	25x1.2mm galv. strap cross brace with 33.15Ø x 1.2mm x 30mm nails per crossing and 6-3.15 x 1.2mm nails at ends	30	m		
FASCIA & BARGE BOARDS	<u>10mm Fibre cement fascia/verge board screw fixed to timber framing</u>				
B	Zone D; 180mm high	93	m		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>ROOFING</u>				
<u>GENERALLY</u>				
Drawings & Specification				
A The Tenderer shall refer to the Drawings and Specification 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. 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		
Method of Measurement				
B 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		
Dimensions				
C All dimensions given in item descriptions are in mm unless otherwise described.		Note		
<u>TAXES AND RELATED CHARGES</u>				
D All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
<u>MEASUREMENT AND PRICES</u>				
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		
Roofing				
F 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		
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
MEASUREMENT AND PRICES (Cont)					
Roofing (Cont)					
A	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		
B	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		
Cappings and Flashings					
<u>Prices for flashings and cappings shall be deemed to include for:</u>					
	expansion joints and junctions angles, stop ends and the like		Note		
	sealing with sealant and foam filler strips as required		Note		
	cutting and forming grooves in masonry or concrete, turning into masonry joints, wedging and pointing with mastic		Note		
	all necessary packers		Note		
	all fixings		Note		
	touching up all damaged colorbond or other surfaces		Note		
	wedging & pointing with mastic or sealant		Note		
	separating all dissimilar metals with an approved isolating medium		Note		
	provide and allow for all thermal movement including movement in joints and fastenings		Note		
C	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		
D	Prices for forming openings for pipes in metal roof cladding shall include for Dektite flexible pipe flashings, sealants and laps as specified.		Note		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>MEASUREMENT AND PRICES (Cont)</u>				
Downpipes				
A 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		
<u>GENERAL ITEMS</u>				
B Inspections as specified	1	Item		
C Performance criteria as specified	1	Item		
D Tests as specified	1	Item		
E Submissions and samples as specified	1	Item		
F Warranties as specified	1	Item		
G Maintenance manuals as specified	1	Item		
<u>ZONE A</u>				
<u>CORRUGATED SHEET WALKWAYS</u>				
<u>Metal Profiled Roof Sheeting</u>				
H 0.48BMT Colorbond Trimdek roofing screw fixed to purlins with 5 degrees fall	58	m2		
<u>Flashings; 0.48 BMT Colorbond; including all jointing, fixings and approved sealant</u>				
J 0-470mm girth wall flashings/cappings fixed over roof profiles	10	m		
K 0-300mm Girth 0.48 BMT Colorbond Corner Trim flashings/cappings fixed over roof profiles including all jointing and fixings	13	m		
L 0-300mm Girth 0.48 BMT Colorbond Barge Board flashings/cappings fixed over roof profiles including all jointing and fixings	12	m		
<u>Gutter</u>				
M Colorbond squareline gutter 150 x 150; approved joints including straps, brackets, clips and similar items	27	m		
N Stop End Caps	6	no.		
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>ZONE A (Cont)</u>				
	CORRUGATED SHEET WALKWAYS (Cont)				
	<u>Gutter (Cont)</u>				
A	PVC Outlets	4	no.		
	<u>Downpipes</u>				
B	80mm PVC downpipes, approved joints including bracket supports and similar items . [Number of: 5]	15	m		
C	80mm PVC downpipes with spreader pipe holes at 150crs, approved joints including bracket supports and similar items (DP)	2	m		
	<u>Extra over</u> for:				
D	Bends	22	no		
	<u>ZONE B</u>				
	CORRUGATED SHEET WALKWAYS				
	<u>Roof sheeting</u>				
E	0.48BMT Colorbond Trimdek roofing screw fixed to purlins with 5 degrees fall	328	m2		
	<u>Flashings; 0.48 BMT Colorbond; including all jointing, fixings and approved sealant</u>				
F	0-350mm girth wall flashings/cappings fixed over roof profiles	12	m		
G	0-300mm Girth 0.48 BMT Colorbond Corner Trim flashings/cappings fixed over roof profiles including all jointing and fixings	109	m		
H	0-330mm Girth 0.48 BMT Colorbond Barge Board flashings/cappings fixed over roof profiles including all jointing and fixings	53	m		
J	0-430mm Girth Standard ridge cap (Size TBC)	3	m		
	<u>Gutter</u>				
K	Colorbond squareline gutter 150 x 150; approved joints including straps, brackets, clips and similar items	115	m		
L	Colorbond Valley gutter; approved joints including straps, brackets, clips and similar items	6	m		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>ZONE B (Cont)</u>				
	CORRUGATED SHEET WALKWAYS (Cont)				
	<u>Gutter (Cont)</u>				
A	Approx 2700mm long x 300mm wide x 50mm deep colorbond box gutter incl. 1 no. 80mm downpipe outlet with fixings and approved sealant	3	m		
B	Approx 3200mm long x 300mm wide x 50mm deep colorbond box gutter incl. 1 no. 80mm downpipe outlet with fixings and approved sealant	4	m		
C	StopEnd Caps	10	no.		
D	PVC Outlets	9	no.		
	<u>Downpipes</u>				
E	80mm PVC downpipes, approved joints including bracket supports and similar items . [Number of: 14]	44	m		
F	80mm PVC downpipes with spreader pipe holes at 150crs, approved joints including bracket supports and similar items (DP)	2	m		
	<u>Extra over for:</u>				
G	Bends	58	no		
	<u>ZONE C</u>				
	CORRUGATED SHEET WALKWAYS				
	<u>Roof sheeting</u>				
H	0.48BMT Colorbond Trimdek roofing screw fixed to purlins with 5 degrees fall	151	m2		
	<u>Flashings; 0.48 BMT Colorbond; including all jointing, fixings and approved sealant</u>				
J	0-300mm Girth 0.48 BMT Colorbond Corner Trim flashings/cappings fixed over roof profiles including all jointing and fixings	22	m		
K	0-330mm Girth 0.48 BMT Colorbond Barge Board flashings/cappings fixed over roof profiles including all jointing and fixings	55	m		
	<u>Gutter</u>				
L	Colorbond squareline gutter 150 x 150; approved joints including straps, brackets, clips and similar items	52	m		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>ZONE C (Cont)</u>				
	CORRUGATED SHEET WALKWAYS (Cont)				
	<u>Gutter (Cont)</u>				
A	StopEnd Caps	4	no.		
B	PVC Outlets	11	no.		
	<u>Downpipes</u>				
C	80mm PVC downpipes, approved joints including bracket supports and similar items . [Number of: 9]	32	m		
	<u>Extra over for:</u>				
D	Bends	44	no		
	MEMBRANES				
	<u>1mm thick Butynol membrane to flat roofs and associated box gutters as detailed, incl. all primers, adhesives, sealants, tapes and additional flashings as required; to be fixed in strict accordance with the manufacturers recommendations</u>				
E	New extended Butynol Roof to existing Butynol roof at Area A; 3300mm long x 680mm wide 50mm deep incl. 1 no. 80mm downpipe outlets	4	m2		
	<u>ZONE D</u>				
	CORRUGATED SHEET WALKWAYS				
	<u>Roof sheeting</u>				
F	0.48BMT Colorbond Trimdek roofing screw fixed to purlins with 5 degrees fall	98	m2		
	<u>Flashings; 0.48 BMT Colorbond; including all jointing, fixings and approved sealant</u>				
G	0-300mm Girth 0.48 BMT Colorbond Corner Trim flashings/cappings fixed over roof profiles including all jointing and fixings	17	m		
H	0-330mm Girth 0.48 BMT Colorbond Barge Board flashings/cappings fixed over roof profiles including all jointing and fixings	36	m		
J	approx for ridge cap (Size TBC)	8	m		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
ZONE D (Cont)				
CORRUGATED SHEET WALKWAYS (Cont)				
<u>Gutter</u>				
A Colorbond squareline gutter 150 x 150; approved joints including straps, brackets, clips and similar items	42	m		
B StopEnd Caps	6	no.		
C PVC Outlets	10	no.		
D Internal Gutter angle (angle TBD)	3	no.		
<u>Downpipes</u>				
E 80mm PVC downpipes, approved joints including bracket supports and similar items . [Number of: 10]	30	m		
<u>Extra over</u> for:				
F Bends	120	no		
BQ/56			To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>METALWORK</u>				
<u>GENERALLY</u>				
Drawings & Specification				
A The Tenderer shall refer to the Drawings and Specification 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. 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		
Method of Measurement				
B 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		
Dimensions				
C All dimensions given in item descriptions are in mm unless otherwise described.		Note		
<u>TAXES AND RELATED CHARGES</u>				
D All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
<u>MEASUREMENT AND PRICES</u>				
E Prices are to reflect this document as a "Builder's 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		
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
MEASUREMENT AND PRICES (Cont)					
A	<p>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</p>		Note		
B	<p>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.</p>		Note		
C	<p>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.</p>		Note		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>MEASUREMENT AND PRICES (Cont)</u>				
A The Contractor is referred to the Specification and drawings for full details and descriptions for all items of metalwork included herein.		Note		
B 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		
C All sizes given are approximate only and shall be confirmed on site prior to manufacture.		Note		
<u>GENERAL ITEMS</u>				
D Shop drawings as specified	1	Item		
E Samples as specified	1	Item		
F Testing as specified	1	Item		
G Inspections as specified	1	Item		
H Submissions as specified	1	Item		
J Warranties as specified	1	Item		
K Maintenance manuals as specified	1	Item		
L Refer to A152 -Zone D - Construction Details for handrails and ramp details				
<u>Ramp 1</u>				
M Approx 920mm high 40mm Dia 'Grade A' GMS handrails with a 40mm dia mid rail welded to 40mm dia GMS Posts fixed into concrete with M12 dynabolts	16	m		
<u>Ramp 2</u>				
N Approx 920mm high 40mm Dia 'Grade A' GMS handrails with a 40mm dia mid rail welded to 40mm dia GMS Posts fixed into concrete with M12 dynabolts	19	m		
<u>Ramp 3</u>				
P Approx 920mm high 40mm Dia 'Grade A' GMS handrails with a 40mm dia mid rail welded to 40mm dia GMS Posts fixed into concrete with M12 dynabolts	31	m		
			To Collection \$	

	Qty	Unit	Rate	Amount
<p>Ramp 4</p> <p>A Approx 920mm high 40mm Dia 'Grade A' GMS handrails with a 40mm dia mid rail welded to 40mm dia GMS Posts fixed into concrete with M12 dynabolts</p>	10	m		
	BQ/60		To Collection \$	

	Qty	Unit	Rate	Amount
<u>PAINTING</u>				
<u>GENERALLY</u>				
Drawings & Specification				
A				
<p>The Tenderer shall refer to the Drawings and Specification 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. 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.</p>		Note		
Method of Measurement				
B				
<p>This Bill of Quantities is in an abbreviated format and as such has not been measured in accordance with a standard method of measurement</p>		Note		
Dimensions				
C				
<p>All dimensions given in item descriptions are in mm unless otherwise described.</p>		Note		
<u>TAXES AND RELATED CHARGES</u>				
D				
<p>All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)</p>		Note		
<u>MEASUREMENT AND PRICES</u>				
E				
<p>Prices are to reflect this document as a "Builder's 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</p>		Note		
F				
<p>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'.</p>		Note		
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
<u>MEASUREMENT AND PRICES (Cont)</u>					
A	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		
B	Prices for painting shall include for selected colours throughout		Note		
C	The term 'prepare' where used to described individual paint finishes shall include for all necessary preparatory work including cleaning down, patching timber 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		
<u>GENERAL ITEMS</u>					
D	Inspections as specified	1	Item		
E	Submissions as specified	1	Item		
F	Warranties as specified	1	Item		
G	Spares as specified	1	Item		
H	Providing sample finishes, colours and similar work as specified	1	Item		
<u>TIMBER</u>					
J	Prepare and paint with three coat systems generally; with products and colours as provided/instructed and in accordance with the manufacturer's recommendations		Note		
Zone A					
K	Posts	22	m2		
L	Framing - Beams, rafters, purlins and packing timbers	59	m2		
Zone B					
M	Posts	145	m2		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>TIMBER (Cont)</u>				
	Zone B (Cont)				
A	Framing - Beams, rafters, purlins, gutter framing, support and packing timbers	343	m2		
	Zone C				
B	Posts	58	m2		
C	Framing - Beams, rafters, purlins, gutter framing, support and packing timbers	150	m2		
	Zone D				
D	Posts	13	m2		
E	Framing - Beams, rafters, purlins, support and packing timbers	108	m2		
	<u>FC SHEET PAINTING</u>				
F	Prepare and paint with three coat systems generally; with products and colours as provided/instruted and in accordance with the manufacturer's recommendations		Note		
	Zone A				
G	10mm FC Fascia/Barge Boards	18	m2		
	Zone B				
H	10mm FC Fascia/Barge Boards	112	m2		
J	12mm exterior ply board (ref details on S118)	2	m2		
	Zone C				
K	10mm FC Fascia/Barge Boards	64	m2		
	Zone D				
L	10mm FC Fascia/Barge Boards	40	m2		
	<u>METALWORK</u>				
M	Prepare and paint metal surface with Resene Zinc epoxy primer and Resene High Build Epoxy or equivalent approved by architect				
	Ramp 1				
N	Approx 900mm high 40mm Dia 'Grade A' GMS handrails	6	m2		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
<u>METALWORK (Cont)</u>					
Ramp 2					
A	Approx 900mm high 40mm Dia 'Grade A' GMS handrails	7	m2		
Ramp 3					
B	Approx 900mm high 40mm Dia 'Grade A' GMS handrails	11	m2		
Ramp 4					
C	Approx 900mm high 40mm Dia 'Grade A' GMS handrails	4	m2		
<u>DOWNPIPES PAINTING</u>					
D	Prepare and paint with three coat systems generally; with products and colours as provided/instruted and in accordance with the manufacturer's recommendations				
ZONE A					
E	80mm PVC Downpipes	5	m2		
ZONE B					
F	80mm PVC Downpipes	12	m2		
ZONE C					
G	80mm PVC Downpipes	9	m2		
ZONE D					
H	80mm PVC Downpipes	8	m2		
				To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>DRAINAGE</u>				
	<u>GENERALLY</u>				
	Drawings & Specification				
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	Method of Measurement				
B	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		
	Dimensions				
C	All dimensions given in item descriptions are in mm unless otherwise described.		Note		
	<u>TAXES AND RELATED CHARGES</u>				
D	All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
	<u>MEASUREMENT AND PRICES</u>				
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		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>MEASUREMENT AND PRICES (Cont)</u>				
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		
<u>GENERAL ITEMS</u>				
D Allow for inspections as specified	1	Item		
E Allow for keeping excavation free from rain and percolating water by pumping or otherwise	1	Item		
DRAINAGE; SUPPLY AND FIX				
<u>STORMWATER PIPEWORK; IN TRENCHES</u>				
100mm dia PVC waste pipe laid in ground; not to exceeding 1m depth. Including all necessary excavation and backfilling				
F Zone A	26	m		
G Zone B	94	m		
H Zone C	17	m		
			To Collection \$	

Description		Qty	Unit	Rate	Amount
STORMWATER PIPEWORK; IN TRENCHES (Cont)					
<u>Extra over for pipework through existing footpaths; including demolition and reinstatement</u>					
A	Zone B	3	m		
B	Zone C	3	m		
Bends and connections					
<u>Connection to existing; Allow to connect new 100mm stormwater pipe into existing stormwater sump</u>					
C	Zone A	2	no		
D	Zone B	1	no		
E	Zone C	2	no.		
<u>100 dia T junction</u>					
F	Zone B	1	no.		
<u>100. dia bends</u>					
G	Zone A	1	no.		
H	Zone B	2	no.		
STORMWATER SUMPS					
450 x 450 x 450 Concrete sump with 100mm thick sides and 150mm thick base plastered to fall with reinforcement 665 mesh and grating (ref. dwg. H000)					
J	Zone A	6	no.		
K	Zone B	4	no.		
L	Zone C	13	no.		
				To Collection \$	

Description	Qty	Unit	Rate	Amount
<u>ELECTRICAL SERVICES</u>				
<u>GENERALLY</u>				
Drawings & Specification				
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Method of Measurement				
B 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		
Dimensions				
C All dimensions given in item descriptions are in mm unless otherwise described.		Note		
<u>TAXES AND RELATED CHARGES</u>				
D All rates included in this Bill of Quantities shall include for all related costs (e.g. overheads, profit, attendance, compliance with all legislative and statutory requirements and related charges (FNPF etc.) but shall be exclusive of the contractor's obligations for VAT (refer to the General Conditions of Contract and Specifications for calculations of the applicable VAT)		Note		
<u>MEASUREMENT AND PRICES</u>				
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 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		
<u>GENERAL ITEMS</u>				
G Allow for inspections as specified	1	Item		
			To Collection \$	

	Description	Qty	Unit	Rate	Amount
	<u>GENERAL ITEMS (Cont)</u>				
A	Allow for giving notices, obtaining permits and completion certificates (if required) ELECTRICAL; SUPPLY AND FIX	1	Item		
	<u>LIGHTING</u>				
	Supply and Fix solar lights and associated solar panels				
	<u>ZONE A</u>				
B	Glitz Tasco Solar LED Flood Light with PIR motion sensor 1100 or equally specified at 3m max crs.	6	no		
	<u>ZONE B</u>				
C	Glitz Tasco Solar LED Flood Light with PIR motion sensor 1100 or equally specified at 3m max crs.	44	no		
	<u>ZONE C</u>				
D	Glitz Tasco Solar LED Flood Light with PIR motion sensor 1100 or equally specified at 3m max crs.	18	no		
	<u>ZONE D</u>				
E	Glitz Tasco Solar LED Flood Light with PIR motion sensor 1100 or equally specified at 3m max crs.	9	no		
					To Collection \$

Description	Qty	Unit	Rate	Amount
SUMMARY	Page No.			
PRELIMINARIES	BQ/7			
DEMOLITION	BQ/9			
GROUND WORKS	BQ/12			
IN SITU CONCRETE WORKS	BQ/16			
REINFORCEMENT	BQ/19			
FORMWORK	BQ/22			
BLOCKWORK	BQ/25			
CARPENTRY	BQ/49			
ROOFING	BQ/56			
METALWORK	BQ/60			
PAINTING	BQ/64			
DRAINAGE	BQ/67			
ELECTRICAL SERVICES	BQ/69			
TOTAL AMOUNT TO FORM OF TENDER - \$FJD VEP				
<p>Note: This Bill of Quantities contains pages numbered BQ/1 to BQ/69. The Contractor should ensure that all items are priced and all calculations are correct.</p>				

APPENDIX A

DOCUMENT REGISTER

Drawing Register

Sheet Number	Drawing Reference - Description	Revision	Date
BEUMOUNT ROAD, NARERE			
ARCHITECTURAL - ORTON ARCHITECTS			
A000	DRAWING INDEX SHEET	R00	06.02.23
A001	SITE PLAN & LOCALITY PLAN	R00	06.02.23
A100	ZONE A - EXISTING PLAN	R00	06.02.23
A101	ZONE A - DIMENSIONED PLAN	R00	06.02.23
A102	ZONE A - ROOF PLAN	R00	06.02.23
A103	ZONE A - ELEVATIONS	R00	06.02.23
A110	ZONE B - EXISTING PLAN	R00	06.02.23
A111	ZONE B - EXISTING PLAN CONTINUED	R00	06.02.23
A112	ZONE B - EXISTING PLAN CONTINUED	R00	06.02.23
A113	ZONE B - DIMENSIONED PLAN	R00	06.02.23
A114	ZONE B - DIMENSIONED PLAN CONTINUED	R00	06.02.23
A115	ZONE B - DIMENSIONED PLAN CONTINUED	R00	06.02.23
A116	ZONE B - ROOF PLAN	R00	06.02.23
A117	ZONE B - ROOF PLAN CONTINUED	R00	06.02.23
A118	ZONE B - ROOF PLAN CONTINUED	R00	06.02.23
A119	ZONE B - ELEVATIONS	R00	06.02.23
A120	ZONE B - ELEVATIONS	R00	06.02.23
A130	ZONE C - EXISTING PLAN	R00	06.02.23
A131	ZONE C - DIMENSIONED PLAN	R00	06.02.23
A132	ZONE C - ROOF PLAN	R00	06.02.23
A133	ZONE C - ELEVATIONS	R00	06.02.23
A140	ZONE D - EXISTING PLAN	R00	06.02.23
A141	ZONE D - DIMENSIONED PLAN	R00	06.02.23
A142	ZONE D - ROOF PLAN	R00	06.02.23
A143	ZONE D - ELEVATIONS	R00	06.02.23
A150	SECTIONS	R00	06.02.23
A151	SECTIONS	R00	06.02.23
STRUCTURAL - ORTON ARCHITECTS			
S000	STRUCTURAL NOTES	R00	06.02.23
S100	ZONE A - FOUNDATION PLAN	R00	06.02.23
S101	ZONE B - FOUNDATION PLAN	R00	06.02.23
S102	ZONE B - FOUNDATION PLAN CONTINUED	R00	06.02.23
S103	ZONE B - FOUNDATION PLAN CONTINUED	R00	06.02.23
S104	ZONE C - FOUNDATION PLAN	R00	06.02.23
S105	ZONE D - FOUNDATION PLAN	R00	06.02.23
S106	FOUNDATION DETAILS	R00	06.02.23
S107	FOUNDATION DETAILS	R00	06.02.23
S110	ZONE A - ROOF FRAMING PLAN	R00	06.02.23
S111	ZONE B - ROOF FRAMING PLAN	R00	06.02.23
S112	ZONE B - ROOF FRAMING PLAN CONTINUED	R00	06.02.23
S113	ZONE B - ROOF FRAMING PLAN CONTINUED	R00	06.02.23
S114	ZONE B - ROOF FRAMING PLAN CONTINUED	R00	06.02.23
S115	ZONE C - ROOF FRAMING PLAN	R00	06.02.23
S116	ZONE D - ROOF FRAMING PLAN	R00	06.02.23
S117	CONSTRUCTION DETAILS	R00	06.02.23
S118	ZONE A CONSTRUCTION DETAILS	R01	06.02.23
S119	CONSTRUCTION DETAILS	R00	06.02.23
S120	CONSTRUCTION DETAILS	R00	06.02.23
S121	ZONE A & B CONSTRUCTION DETAILS	R00	06.02.23
ELECTRICAL SERVICES - ORTON ARCHITECTS			
E100	SITE ZONE LOCATION AND ZONE A LIGHTING SETOUT PLAN	R00	06.02.23
E101	ZONE B AND C LIGHTING SETOUT PLAN	R00	06.02.23
E102	ZONE B AND D LIGHTING SETOUT PLAN	R00	06.02.23
HYDRAULIC SERVICES - ORTON ARCHITECTS			
H100	ZONE A - STORM WATER DRAINAGE PLAN AND DETAILS	R00	06.02.23
H101	ZONE B AND C - STORM WATER DRAINAGE PLAN	R00	06.02.23
H102	ZONE B AND D - STORM WATER DRAINAGE PLAN	R00	06.02.23