

**HESSEQUA MUNICIPALITY**

**TENDER NO. HES-CORP 02/2122**

**THE CONSTRUCTION OF A NEW BUSINESS HUB - KWANOKUTHULA**

**PART C2.1: BILL OF QUANTITIES**

DECLARATION

I, THE UNDERSIGNED (NAME) .....

CERTIFY THAT THE INFORMATION FURNISHED BELOW IS CORRECT. I ACCEPT THAT THE MUNICIPALITY MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

AUTHORISED SIGNATURE: .....

NAME: .....

CAPACITY: .....

DATE: .....

HESSEQUA MUNICIPALITY TENDER: HES-CORP 02/2122  
 THE CONSTRUCTION OF A NEW BUSINESS HUB - KWANOKUTHULA  
 H1184

SECTION A : PRELIMINARY & GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A1	SANS 1200 A	PRELIMINARY AND GENERAL				
	8.3	<b>Scheduled Fixed-charge and Value-related Items</b>				
A1.1	8.3.1	Contractual Requirements	Sum	1		
A1.2	8.3.2	Establish Facilities on the Site :				
	8.3.2.1	Facilities for Engineer (SANS 1200 AB)				
A1.2.1		c) Nameboards (1 No) according to PS AB 3.1	Sum	1		
	8.3.2.2	Facilities for Contractor				
A1.2.2		a) Offices and storage sheds	Sum	1		
A1.2.3		b) Workshops	Sum	1		
A1.2.4		d) Living accommodation	Sum	1		
A1.2.5		e) Ablution and latrine facilities	Sum	1		
A1.2.6		f) Tools and equipment	Sum	1		
A1.2.7		g) Water supplies, electric power and communications	Sum	1		
A1.2.8		h) Dealing with water (See PS A 5.5)	Sum	1		
A1.2.9		i) Access (See A 5.8)	Sum	1		
A1.3	8.3.3	Other Fixed-charge Obligations (specify) .....	Sum	1		
A1.4	8.3.4	Removal of Site Establishment	Sum	1		
	8.4	<b>Scheduled Time-related Items</b>				
A1.5	8.4.1	Contractual Requirements	Sum	1		
A1.6	8.4.2	Operation and Maintenance of Facilities on Site, for Duration of Construction, except where otherwise stated				
A1.6.1		a) Offices and storage sheds	Sum	1		
TOTAL CARRIED FORWARD						

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**SECTION A : PRELIMINARY & GENERAL**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
A1.6.2		b) Workshops	Sum	1		
A1.6.3		d) Living accommodation	Sum	1		
A1.6.4		e) Ablution and latrine facilities	Sum	1		
A1.6.5		f) Tools and equipment	Sum	1		
A1.6.6		g) Water supplies, electric power and communications	Sum	1		
A1.6.7		h) Dealing with water (see PS A 5.5)	Sum	1		
A1.6.8		i) Access (see A5.8)	Sum	1		
A1.7	8.4.3	Supervision for Duration of Construction	Sum	1		
A1.8	8.4.4	Company and Head Office Overhead Costs for the Duration of the Construction	Sum	1		
A1.9	8.4.5	Other Time-related Obligations (specify)	Sum	1		
A2	8.9	<b>Occupational Health and Safety (Provisional)</b>				
		<b>Note : OHS Plan to be submitted by tenderers at tender stage as per the OHS specifications</b>				
A2.1	8.9.1	Cost of health and safety measures in terms of the Construction Regulations (2014) of the Occupational Health and Safety Act, 1993	Sum	1		
A2.2	8.9.2	Compile a Health and Safety Plan, including Risk Assessments, Safe Works Procedures and Methods Statements.	Sum	1		
A2.3	8.9.3	Maintenance of the Health and Safety File	Sum	1		
A2.4		OHS boards as per detail	No.	4		
<b>TOTAL CARRIED FORWARD</b>						

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**SECTION A : PRELIMINARY & GENERAL**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
A2.5		Conduct the necessary medical test on all permanent - and temporary staff involved in the construction work by a registered Medical Practitioner according to the Construction Regulation (2014) of the Occupational Health and Safety Act, 1993.				
A2.5.1		Medical Examination Including : Working at Heights / General Workers (incl drugscreening) This item only applicable on temporary workers. Medical examination on permanent staff stay the responsibility of the Tenderer.	No	5		
A2.5.1		Medical Examination Including : Working at Heights / General Workers (incl drugscreening) This item only applicable on temporary workers. Medical examination on permanent staff stay the responsibility of the Tenderer.	No	5		
TOTAL CARRIED FORWARD						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		<b>BUILDING ITEMS AS PER SANS 10400</b>				
B1		<b>EARTHWORKS</b>				
		Cut to fill compacted to 93% of modified AASHTO maximum density (100% for sand) from material :				
B1.1		On site from material on northern side of concrete slab	m <sup>3</sup>	350		
B1.2		Foundation excavations	m <sup>3</sup>	25		
		Borrow to fill compacted to 95% of modified AASHTO maximum density (100% for sand)				
B1.3		G7-material from commercial sources	m <sup>3</sup>	80		
B2		<b>FOUNDATION EXCAVATIONS</b>				
		Saw-cut of existing concrete surface bed for:				
B2.1		(1) Thickness exceeding 0 mm but not exceeding 75 mm	m	20		
B2.2		(2) Thickness exceeding 75 mm but not exceeding 150 mm	m	20		
B2.3		Remove existing concrete surface bed	m <sup>2</sup>	10		
B2.4		Overhaul (Provisional)				
B2.4.1		Limited overhaul	m <sup>3</sup>	1		
B2.4.2		Long overhaul	m <sup>3</sup> .km	10		
B2.5		Foundation excavation in soft material	m <sup>3</sup>	35		
B2.6		Foundation backfilling	m <sup>3</sup>	35		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
<b>B3</b>		<b>FILLING UNDER SURFACE BEDS</b>				
B3.1		Surface bed backfilling with G7 material (sand only) from commercial sources stabilized with 5% per volume cement compacted to 100% Mod Aashto density in layers not exceeding 100mm	m <sup>3</sup>	10		
<b>B4</b>		<b>DAMP COURSE</b>				
B4.1		250 Micron DPC damp course under surface beds	m <sup>2</sup>	120		
B4.2		250 Micron DPC damp course on surface bed under 150mm walls	m	80		
B4.3		250 Micron DPC damp course on surface bed under 110mm walls	m	20		
B4.4		250 Micron DPC at window and door openings	m	45		
<b>B5</b>		<b>CONCRETE AND REINFORCEMENT STEEL</b>				
		<b>Strength concrete for :</b>				
B5.1		Foundations - 25/19MPa	m <sup>3</sup>	12		
B5.2		Concrete for foundation walls - 25/19MPa	m <sup>3</sup>	3		
B5.3		Surface beds - 30/19MPa	m <sup>3</sup>	10		
B5.4		Concrete for informal work surface	m <sup>3</sup>	2		
B5.5		25mm Topping	m <sup>3</sup>	30		Rate Only
B5.6A		Cement content for items B5.1 - B5.5 & B19.3 & B19.4	kg	1200		
		<b>Concrete finishing for :</b>				
B5.6		Steel float for concrete surface bed	m <sup>2</sup>	100		
B5.7		Steel float for 25mm topping	m <sup>2</sup>	100		Rate Only
		<b>Structural steel for concrete elements</b>				
B5.8		Mesh ref 193	m <sup>2</sup>	100		
<b>TOTAL CARRIED FORWARD</b>						

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SECTION B : GENERAL BUILDING WORK

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
B5.9		Fix and supply Y-tipe steel with diameters:				
B5.9.1		Ø10mm	kg	150		
B5.9.2		Ø12mm	kg	30		
B5.9.3		Ø16mm	kg	15		
B6		<b>CONCRETE SHUTTERING</b>				
B6.1		Smooth vertical shuttering	m <sup>2</sup>	1		
B6.2		Smooth horizontal shuttering	m <sup>2</sup>	10		
B6.3		Floor saw cut joints	m	50		
B7		<b>BRICK WORK AND PLASTERING</b>				
B7.1		390 x 140 x 190mm cement block wals with brick force every 3rd brick course	m <sup>2</sup>	150		
B7.2		390 x 90 x 190mm cement block wals with brick force every 3rd brick course	m <sup>2</sup>	30		
B7.3		150mm lintels for the following lengths :				
B7.3.1		3 000mm for door openings	Nr	10		
B7.3.2		1 500mm for door openings	Nr	4		
B7.3.3		1 200mm for PT66 windndow openings	Nr	4		
B7.3.4		2 400mm for PTT186 windndow openings	Nr	2		
B7.4		110mm lintels for the following lengths :				
B7.4.1		1 500mm for door openings	Nr	4		Rate Only
B7.4.2		1 200mm for PT66 windndow openings	Nr	4		Rate Only
B7.4.3		2 400mm for PTT186 windndow openings	Nr	2		Rate Only
<b>TOTAL CARRIED FORWARD</b>						

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SECTION B: GENERAL BUILDING WORK

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
B7.5		<b>Plaster cement block walls for:</b>				
B7.5.1		Vertical surfaces	m <sup>2</sup>	300		
		Window sills for:				
B7.5.2		Vertical surfaces	m <sup>2</sup>	7		
B7.5.3		Horsontal surfaces	m <sup>2</sup>	5		
B8		<b>STRUCTURAL STEEL STRUCTURE</b>				
B8.1		Manufacture and install IPE 160 A-frame - painted	No	6		
B8.2		Manufacture and install IPE 160 lean-to roof beam 4 920mm - painted dark charcoal colour	No	6		
B8.3		100 x 50 x 20 x 2mm lip channel purlines - galvanized	m	800		
B8.4		50 x 50 x 3 mm angle iron cross brace - panted dark charcoal colour	m	160		
B9		<b>DOORS AND WINDOWS</b>				
		<b>All esposed wood to be sanded, stained with Ebony stain and sealed with approved sealer</b>				
B9.1		Supply and install Bronze Aluminuim PT66 window with single clear glass as per Architecs spesifications	No	10		
B9.2		Supply and install Bronze Aluminuim PTT186 window with single clear glass as per Architecs spesifications	No	10		
B9.3		Supply and install inside hollowcore door with miranti frame include hinges	No	10		
B9.4		2-lever mortice handle and lock - for inside door	No	10		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
B9.5		Supply and install outside hardwood (meranti or similar) door as per architects detail with miranti frame include 316 stainless steel hinges and outside hooks.	No	10		
B9.6		3-lever mortice handle and lock - for outside opening French door	No	10		
B9.7		Stacking exterior security door Trellidor / Xpanda or simmlar for outside doors	No	5		
B9.8		2 400mm Galvanized roll-up doors	No	4		
B9.9		Hot dipped galvanized expanded diamond mesh burglar bar at all windows as per detail for :				
B9.9.1		PT66 windows	No	10		
B9.9.2		PTT186 windows	No	10		
B10		<b>ROOF SHEETS, FACIAS, CEILINGS, INSULATION AND CUTTERS</b>				
B10.1		IBR profile 0.47mm - G550/AZ150 Zinalume roof sheeting fixed with 65mm hex head fasteners every second crest and every crest at eave purlines	m <sup>2</sup>	500		
B10.2		IBR Polycarbon roof sheets - 5m x 760mm effective with fixed with 65mm hex head fasteners every second crest	m <sup>2</sup>	5		
B10.3		600mm wide 0.47mm - G550/AZ150 Zinalume flashing sheet between lean to roof and wall	m	16		
B10.4		2 x 231mm - 0.47mm - G550/AZ150 Zinalume roof ridging fixed as per manufacturer specification	m	16		
B10.5		Heat activated roof ventilators	No	5		
<b>TOTAL CARRIED FORWARD</b>						

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**SECTION B: GENERAL BUILDING WORK**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
B10.6		Sisalation FR 405 Fire retardant light industrial grade reinforced aluminium foil insulation double sided, durable, reflective foil laminate incorporating a fire retardant between the various substrates, bonded together with low density polyethene, tested for conformance with SANS 1381-4:2009 , with a Class 1 fire rating in accordance with SANS 10177 - 3:2005 and ASTM E84 and BS 476 part 5, 6 and 7, with top and bottom edges folded around flat bar and fixed to ridge and eaves purlins, and drawn tautly over and fixed to intermediate purlins with double sided tape or contact adhesive and supported between purlins by 1,6mmØ double galvanised straining wires starting at 75mm centre then 275mm, 275mm, 275mm, 275mm and 75mm centres across each roll width securely fixed across top of purlins, with Sisalation lapped 150mm on both sides of each 1250mm width roll				
B10.6.1		Sisalation (R value = 1.31) insulation laid taut over purlins and fixed concurrently with roof covering, including galvanized	m <sup>2</sup>	120		
B10.6.2		30mm Isobaord (R value = 1.5) suspended ceiling fixed with metal hangers hanging from purlines	m <sup>2</sup>	80		
B10.6.3		50mm glass wool insulation (R value = 1.25) laid over 30mm Isobaord ceiling	m <sup>2</sup>	80		
B10.7		225mm wide 0.47mm - G550/AZ150 Zincalume facia	m	40		
B10.8		225 x 10mm Nutec facia	m	40		Rate Only
B10.9		100mm wide Seamless Aluminium gutter and brackets	m	40		
B10.10		100mm wide Seamless Aluminium gutter end cap	No	4		
<b>TOTAL CARRIED FORWARD</b>						

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SECTION B: GENERAL BUILDING WORK

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
B10.11		100mm wide Seamless Aluminium gutter outlet	No	4		
B10.12		Seamless Aluminium downpipe shoe - Ø63mm	No	4		
B10.13		Seamless Aluminium Gutter downpipe and brackets or similar - Ø63mm	m	15		
B11		<b>FLOOR AND WALL COVERING</b>				
B11.1		Install tiles above hand wash basins. Tile cement and grout to be included.	m <sup>2</sup>	2		
B11.2		Provisional rate for tiles	m <sup>2</sup>	2	150.00	300.00
B11.3		Contractors mark-up on tile purchase. Item B11.2.	%	300.00		
B12		<b>PLUMBING</b>				
B12.1		Supply and fit of Vaal Hibiscus or similar Close Coupled Suite with Seat and Mechanism - White (2 Piece) complete	No	4		
B12.2		316 Stainless steel wall and toilet close coupled suite handrailing for the disabled	No	1		
B12.3		White Stone Toilet Roll Holder.	No	4		
B12.4		Vaal Hibiscus or similar range hand basin and pedestal	No	4		
B12.5		ISCA TRI AEX5026CH or similar PILLAR TAP 15mm for hand wash basin	No	4		
B12.6		Towel Ring Fusion	No	4		
B12.7		Supply and fit 800x460mm Franke Projectline PLN611 or similar Inset Kitchen Sink or similar complete with Ø38mm PVC waste fittings and plug , etc - only cold water - excluding taps	m	4		
<b>TOTAL CARRIED FORWARD</b>						

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SECTION B: GENERAL BUILDING WORK

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
B12.8		ISCA (TAPS & MIXERS) or similar - TRI - TAPS - PREP BOWL TAPS - CHROME - COB-EX5035CH	No	4		
B12.9		uPVC Ø110mm uPVC stack	No	6		
B12.10		Ø40mm pipe brachets - wall mounted	No	6		
B12.11		uPVC Ø40mm 45Deg T-piece	No	1		
B12.12		uPVC Ø110mm 90-degree bent	No	3		
B12.13		uPVC Ø40mm saddle onto Ø110mm	No	2		
B12.14		uPVC Ø40mm uPVC air vent	No	1		
B12.15		uPVC Ø110mm rodding eye	No	2		
B12.16		uPVC Ø40mm waste pipe	m	50		
B12.17		uPVC Ø110mm waste pipe	m	80		
B12.18		Ø20mm Polycob water pipe	m	30		
B12.19		Ø15mm copper water pipe	m	10		
B12.20		Copper Ø15mm solder T-piece	No	3		
B12.21		Copper Ø15mm solder 90 deg bent	No	3		
B12.22		Copper Solder CxFI Elbow 90° Wall plate Ø15mm	No	3		
B12.23		Flexi connector Ø15mm	No	3		
B12.24		Ø15mm Valve	No	3		
B12.25		Pipe excavation and backfilling	m³	5		
B12.26		Supply and install 6 000 litre sewer conservancy tank	No	1		
B12.27		Ø90mm Perrot coupling for emptying of conservancy tank	No	1		
B12.28		Ø20mm post paid water meter	No	1		
TOTAL CARRIED FORWARD						

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SECTION B: GENERAL BUILDING WORK

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
B13		<b>WALL PAINT</b>				
B13.1		All external and internal walls. One (1) coat universal plaster primer to plastered walls and prepare walls for final paint coats	m <sup>2</sup>	325		
B13.2		All external and internal walls. Two (2) coats NHBRC approved external PVA acrylic paint (colour to be determine by client) to plastered walls	m <sup>2</sup>	325		
B14		<b>ELECTRICAL</b>				
		All electrical installation as per drawings.				
B14.1		Electrical distribution board	No	7		
B14.2		1200mm double LED lights	No	7		
B14.3		PL2X9W circular external light	No	4		
B14.4		16A single plug points 1 200mm above floor level	No	7		
B14.5		16A single plug points 300mm above floor level	No	7		
B14.6		Light switches for :				
B14.6.1		3 lever	No	3		
B14.6.2		2 lever	No	3		
B14.6.3		1 lever	No	2		
B14.7		Electrical surface mount trunking (75 x 40mm)	m	30		Rate Only
B14.8		16mm electrical external cable including trench excavation and backfilling	m	30		
B14.9		Computer Network installation	PC Sum	1	25 000.00	25 000.00
B14.9		Contractors mark-up on Item B13.7	%	25 000.00		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
B15		<b>KITCHEN CUBOARDS</b>				
B15.1		Kitchen cupboard coloured melamine	Sum	5		
B15.1		Kitchen counter 2400 x 600mm Rustenburg granite	Sum	5		
B16		<b>BOLTS, NAILS AND SCREWS, etc</b>				
B16.1		M16 galvanized bolts and nuts	No	150		
B16.2		M12 galvanized bolts and nuts	No	125		
B16.3		M16 galvanized washers	No	300		
B16.4		M12 galvanized washers	No	300		
B17		<b>SEGMENTED PAVING</b>				
		Selected layer compacted to 95% modified AASHTO density (100% if sand) for :				
B17.1		150mm G7 - material from commercial sources (no sand)	m <sup>3</sup>	10		
		<b>SUBBASE</b>				
		Construct the subbase course/shoulder/gravel wearing course with material from commercial sources				
B17.2		150 mm thick subbase (G5 material) compact to 97% of Modified AASHTO maximum density	m <sup>3</sup>	10		
B17.3		New 200x100x50mm Bevel paving bricks laid on 25mm river sand - 25MPa	m <sup>2</sup>	400		
B17.4		Cutting of 200x100x50mm Bevel paving bricks	m	80		
B17.5		Role 50mm Bevel paving brick to close state	m <sup>2</sup>	400		
<b>TOTAL CARRIED FORWARD</b>						

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SECTION B: GENERAL BUILDING WORK

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
B18		<b>FIRE EQUIPMET AND SIGNAGE AS PER DRAWING W1786-21-M1</b>				
B18.1		Emergency exit signage	No	5		
B18.2		First aid signage	No	5		
B18.3		Fire extinguisher signage	No	5		
B18.4		4.5kg dry chemical powder fire extinguisher and wall bracket	No	5		
B18.5		4.5kg dry co2 fire extinguisher and wall bracket	No	5		
B19		<b>FENCING</b>				
		CLEAR-VU FENCING				
B19.1		Excavation for post installation	m³	10		
B19.2		Excavation for fence bottom strip beam	m³	15		
B19.3		Concrete for post foundation 600x400x400mm - 15/19MPa	m³	10		
B19.4		Concrete strip beam to fix bottom section of fence 200x200mm - 15/19MPa	m³	0.6		
		<b>All post should be galvanized.</b>				
		Post shall be 2700mm long Taper Locking Post				
		Post shall be 85mm – tapering to 45mm with a depth of 85mm				
		Post shall include Locking Recess Mechanism to secure panel edge.				
		Post shall be sealed with a UV stabilized polymer cap				
B19.5		Number of Posts	Nr	250		
<b>TOTAL CARRIED FORWARD</b>						

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**SECTION B: GENERAL BUILDING WORK**

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>BROUGHT FORWARD</b>						
		<p><b>All pannels should be galvanized.</b></p> <p>Panel shall be 3.305m with and 2100mm in height            Panel aperture size (centers) shall be 76.2mm x 12.7mm            The panel shall be reinforced with 4 x 50mm deep 'V' formation horizontal recessed bands (rigidity).            ExcPanel shall have 2 x 70° flanges along sides (internal fixtures – all fixtures shall be on the inside of fence line)avation Ancillaries            Panel shall have 2 x 30° flanges along top and toe (integrated rigid angle).            Panel post shall have a flush panel post finish with no climbing aid.</p> <p>Panel shall be affixed to post over 48-line wires using 8 x Double bolt comb clamps and 8 x Single bolt combs clamps using 24 x Anti vandal bolts.</p>				
B19.6		Number of Pannels	Nr	250		
B19.7		<b>4000mm double leaf swing gate - All elements should be galvanized</b>	Nr	1		
B20		<b>AIRCONDITIONING</b>				
B20.1		Airconditioning	PC Sum	1	75 000.00	75 000.00
B20.2		Contractors mark-up on Item B20.1	%	75 000.00		
B21		<b>SIGNAGE</b>				
B21.1		Business signage boards	PC Sum	1	8 000.00	8 000.00
B21.2		Contractors mark-up on Item B21.1	%	8 000.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>						

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**SUMMARY OF SCHEDULES**

PAGE	DESCRIPTION	TENDER AMOUNT
100	SECTION A: PRELIMINARY AND GENERAL	-
109	SECTION B: GENERAL BUILDING WORK	-
<p><b>SUB-TOTAL</b></p> <p>Allow 10% contingencies to be spent in part or as a whole at the sole discretion of the Engineer</p>		
<p><b>SUB-TOTAL</b></p> <p>Add 15% VAT</p>		
<p><b>TOTAL CARRIED FORWARD TO FORM OF TENDER</b></p>		