

SUBJECT : BILL OF QUANTITIES				
PART C2.2.1			PAGE 1 of 2	
BILL No. 1 - PRELIMINARIES				
Item no.		Fixed	Value Related	Time Related
1	<p>PREAMBLES AND SPECIAL CONDITIONS</p> <p><u>Note 1</u> Principal building agreement</p> <p>The agreement entered into between the employer and the contractor is the Edition 5.0 - July 2007 Principal Building Agreement prepared by the Joint Building Contracts Committee and recommended by the JBCC Constituents, as amplified and amended by:</p> <p>1.1 The July 2007 (Code 2103) JBCC Preliminaries. 1.2 SANS 10139 1.3 The bills of quantities. 1.4 Such other documents as are identified in the schedule to the agreement.</p> <p>(The documents referred to in Note 1 above and comprising the principal building agreement, the preliminaries, the bills of quantities, and such other documents as are identified in the schedule shall collectively be referred to as the principal agreement)</p> <p><u>Note 2</u> Nominated/selected subcontract agreement. The selected subcontract agreement to be entered into between the contractor and the subcontractor shall be referred to as the N/S agreement and shall:</p> <p>2.1 not conflict with any of the provisions of the principal agreement as defined in Note 1 above; and</p> <p>2.2 conform to and incorporate the July 2007 (Code 2102) Nominated/Selected Subcontract Agreement prepared by the Joint Building Contracts Committee as amplified and/or amended by:</p> <p>2.2.1 these preliminaries;</p> <p>2.2.2 the N/S contract documents as defined in clause 1 of the N/S agreement.</p> <p><u>Note 3</u> In the event of a conflict between any provision contained in these preliminaries on the one hand and any provision contained in the N/S agreement on the other hand, the relevant provisions of these preliminaries shall prevail.</p>			

PART C2.2.1		PAGE 2 of 2		
<u>SPECIAL CONDITIONS OF CONTRACT (Refer to Part C1.5 AND C2.3)</u>				
Item no.		Fixed	Value Related	Time Related
	Clause 1.0: Definitions and interpretations	Sum		
	Clause 2.0: General	Sum		
	Clause 3.0: Drawings and Submissions	Sum		
	Clause 4.0: Work provided by others	Sum		
	Clause 5.0: Compliance with Regulations	Sum		
	Clause 6.0: Health and Safety	Sum		
	Clause 7.0: Hoisting and Rigging	Sum		
	Clause 8.0: Materials and Workmanship	Sum		
	Clause 9.0: Programming	Sum		
	Clause 10.0: Contract Management	Sum		
	Clause 11.0: Organisation and staff of sub-contractor	Sum		
	Clause 12.0: Protection against Damage	Sum		
	Clause 13.0: Access to Equipment and Systems	Sum		
	Clause 14.0: Testing, Balancing, Commissioning, Operating of Plant & Handover	Sum		
	Clause 15.0: Guarantee	Sum		
	Clause 16.0: Quality Management System - Testing and Inspection	Sum		
	Clause 17.0: Operating and Maintenance Manuals	Sum		
	Clause 18.0: One Year's Maintenance	Sum		
	Clause 19.0: Special Attendance	Sum		
	Clause 20.0: Example Checklists	Sum		
	Clause 21.0 Example Checklists	Sum		
	Clause 22.0 Example Checklists	Sum		
Subtotals		R -	R -	R -
FIXED				R -
VALUE RELATED				R -
TIME RELATED				R -
TOTAL TRANSFERRED TO ITEM 1 OF THE SUMMARY OF TENDER SUMS PART C2.3				R -

SUBJECT : PROVISIONAL AMOUNTS						
PART C2.2.2						PAGE 1 OF 1
BILL No. 2 - ADDITIONAL PRELIMINARIES						
ITEM	DESCRIPTION	UNIT	QTY	TARRIF	AMOUNT	
2	PROVISIONAL AMOUNTS FOR P&G					
	Provisional Amounts exclude the cost of Overheads, Preliminaries and Profit, as well as any items in the Preambles Tenderers are referred to Spoomaker & Partners' General Technical Specification (Part IV) and Project Technical Specification (Part V.1) for the following Additional Preliminaries:					
2.1	Operating and Maintenance Manuals (Part IV Section 16)	ITEM	3		R	-
2.2	"As Built" Drawings (Part IV Section 16 and Part V.1 Section 2)	ITEM	3		R	-
2.3	Testing and Commissioning (Part V.1 Section 9)	SUM	1		R	-
2.4	Equipment Submissions (Part IV Section 16 and Part V.1 Section 2)	SUM	1		R	-
2.5	1 - Year Maintenance and Guarantee (Part IV Section 13).	SUM	1		R	-
2.6	Operator Training	SUM	1		R	-
2.7	Labels Graflux	SUM	1		R	-
2.8	System Interface Testing with other services	SUM	1		R	-
2.9	Provisional Sum for CSIR Reporting System	Item	1	R 50 000.00	R	50 000.00
TOTAL TRANSFERRED TO SUMMARY PAGE - PART C.3						R 50 000.00

PART C2.2.3					
BILL No. 3 - Fire Detection & Alarm System - PHASE 1					
Item	Description	Unit	Qty	Tariff	Amount
3.1	CONTROL AND COMMUNICATION Supply and installation of addressable, Category L1 fire detection and alarm system in accordance with SANS 10139 requirements Fire Detection system to be of Ziton Manufacture or equivalent.				
3.1.1	Fire Alarm Control Panels Supply and installation of fire alarm control panel complete, including all necessary mounting brackets glands etc.				
3.1.1.1	4 Loops Addressable fire alarm control panel complete with zone indication matrix, Network Card and 72hr Battery Backup all inclusive	No	1	R	-
3.1.1.2	Addressable fire Panel Repeater supplied complete with zone indication matrix, Network Card and 72hr Battery Backup all inclusive	No	1	R	-
3.1.2	Cabling and Terminations 2-Core - 1.5mm ² - Fire retardent cable installed in conduit (conduit measured elsewhere), including terminations.				
3.1.2.1	PH30 (30min resistant)	m	5367	R	-
3.1.2.2	Cat 6 Networking cable c/w fire retardant insulation	m	150	R	-
3.1.3	Power Supplies				
3.1.3.1	Allow for electrical supplies from an existing DB to the new fire alarm control panel inclusive of DB alterations for the addition of a dedicated circuit breaker, 15m cable and new isolator above fire alarm control panel	sum	1	R	-
TOTAL TRANSFERRED TO NEXT PAGE					R -

PART C2.2.3					
BILL No. 3 - Fire Detection & Alarm System - PHASE 1					
Item	Description	Unit	Qty	Tariff	Amount
	TOTAL TRANSFERRED FROM PAGE 1	Sum			R -
3.2	LINE DEVICES				
	All line devices to be analogue addressable and provided with address labels				
3.2.1	Optical point-type smoke detectors				
3.2.1.1	Supply and installation of addressable, optical smoke detectors, complete with base surface mounted to concrete slab or ceiling	No	195	R	-
3.2.2	Fixed Temperature Heat Detectors				
3.2.2.1	Supply and installation of addressable heat detector, complete with base surface mounted to concrete slab/ceiling	No	7	R	-
3.2.3	Multisensor (Optical Smoke and Heat)				
3.2.3.1	Supply and installation of addressable, optical smoke/heat detector, complete with base surface mounted to ceiling	No	5	R	-
3.2.4	Optical Beam Detectors				
3.2.4.1	Supply and installation of optical beam detectors complete with detector, power supply, battery, backboard nad I/O Unit	No			
3.2.5	Resettable Break Glass Unit				
	Supply and installation of addressable manual call points complete with resettable elements - surface mounted				
3.2.5.1	Manual Call Point (Red) - supplied complete with clear plastic hinged cover	No	24	R	-
3.2.5.2	Weatherproof manual call point red supplied complete with clear plastic hinged cover	No	5	R	-
3.2.5.3	Emergency Door Release (Green) - complete with clear plastic hinged cover	No	25	R	-
TOTAL TRANSFERRED TO NEXT PAGE					R -

PART C2.2.3					
BILL No. 3 - Fire Detection & Alarm System - PHASE 1					
Item	Description	Unit	Qty	Tariff	Amount
	TOTAL TRANSFERRED FROM PAGE 2	Sum			R -
3.2.6	Audible and visual alarms				
3.2.6.1	Supply and installation of surface mounted horn sounder and strobe visual indicator (white) complete with base	No	29	R	-
3.2.6.2	Supply and installation of addressable weatherproof Sounder Beacon (Red)	No	5	R	-
3.2.7	Interface and Control				
	Supply and installation of interface units and relays supplied complete with surface mounted single relay box (SMB-DIN1) c/w DIN-35 rails for fixing				
3.2.7.1	Input/Output Relay Unit	No	31	R	-
3.2.7.4	Isolator Base Supplied complete with Cover to suit	No	44	R	-
3.3	CONDUIT, WIREWAYS & ACCESSORIES				
	Conduit as specified under clause 3.3 of the standard specification including bending, jointing, short lengths, draw boxes, expansion joints, adaptors, round coverplates with chrome screws/bends and conduit ends which are to be allowed for in the conduit per meter rate.				
3.3.1	PVC Conduit				
3.3.1.1	Ø25mm PVC conduit built or chased into brick walls	m	87	R	-
3.3.1.2	Ø25mm PVC conduit on surface against underside of the concrete slab or against brick walls complete with galvanised saddles spaced at 500mm centres	m	1520	R	-
3.3.2	Galvanised / Bosal Conduit				
3.3.2.1	Ø25mm Galvanized / Bosal Conduit on surface against underside of the concrete slab or against brick walls	m	150	R	-
3.3.3	Draw Wire - Supply and Install by Electrical Contractor				
3.3.3.1	Galvanised draw wire installed in conduits.	m	2300	R	-
3.3.4	Wire Baskets				
3.3.4.1	HDG Wire Mesh Cable Tray 100mm medium duty	m	40	R	-
TOTAL TRANSFERRED TO NEXT PAGE					R -

PART C2.2.3					
BILL No. 3 - Fire Detection & Alarm System - PHASE 1					
Item	Description	Unit	Qty	Tariff	Amount
	TOTAL TRANSFERRED FROM PAGE 2	Sum			R -
3.4	DOOR AUXILLARY				
3.4.1	Access Control				
	Removal and reinstatement of access control maglocks to facilitate replacement of existing doors.				
	Provision to be made to interlock with the new fire detection and alarm system when reinstating the access control system (fire system relays measured elsewhere)				
3.4.1.1	Single Door	item	5	R	-
3.4.1.2	Double Door	item	20	R	-
3.4.2	Magnetic Hold Open Devices				
	Installation of new magnetic hold open devices complete with power supply, battery backup surface mount door holder with release button and Input/Output relay complete				
3.4.2.1	Single Door	Item	1	R	-
3.4.2.2	Double Door	Item	6	R	-
TOTAL TRANSFERRED TO BILL SUMMARY - PART C2.3					R -

PART C2.2.4

BILL No. 4 - Fire Detection & Alarm System - PHASE 2

Item	Description	Unit	Qty	Tariff	Amount
4.1	CONTROL AND COMMUNICATION Supply and installation of addressable, Category L1 fire detection and alarm system in accordance with SANS 10139 requirements Fire Detection system to be of Ziton Manufacture or equivalent.				
4.1.1	Fire Alarm Control Panels Supply and installation of fire alarm control panel complete, including all necessary mounting brackets glands etc.				
4.1.1.1	Loop expander PCB installed in existing Ziton ZP2 2-Loop Panel for additional 2 loops	No	1	R	-
4.1.1.2	Network card for networking Phase 1 and 2 Panels	No	1	R	-
4.1.2	Cabling and Terminations 2-Core - 1.5mm ² - Fire retardent cable installed in conduit (conduit measured elsewhere), including terminations.				
4.1.2.1	PH30 (30min resistant)	m	367	R	-
4.1.2.2	Cat 6 Networking cable c/w fire retardant insulation	m	210	R	-
4.1.3	Power Supplies				
4.1.3.1	Allow for electrical supplies from an existing DB to the new fire alarm control panel inclusive of DB alterations for the addition of a dedicated circuit breaker, 15m cable and new isolator above fire alarm control panel	sum			
TOTAL TRANSFERRED TO NEXT PAGE					R -

PART C2.2.4

BILL No. 4 - Fire Detection & Alarm System - PHASE 2

Item	Description	Unit	Qty	Tariff	Amount
	TOTAL TRANSFERRED FROM PAGE 1	Sum			R -
4.2	LINE DEVICES				
	All line devices to be analogue addressable and provided with address labels				
4.2.1	Optical point-type smoke detectors				
4.2.1.1	Supply and installation of addressable, optical smoke detectors, complete with base surface mounted to concrete slab or ceiling	No	4	R	-
4.2.2	Fixed Temperature Heat Detectors				
4.2.2.1	Supply and installation of addressable heat detector, complete with base surface mounted to concrete slab/ceiling	No			
4.2.3	Multisensor (Optical Smoke and Heat)				
4.2.3.1	Supply and installation of addressable, optical smoke/heat detector, complete with base surface mounted to ceiling	No			
4.2.4	Optical Beam Detectors				
4.2.4.1	Supply and installation of optical beam detectors set complete, supplied with transmitter, receiver, power supply, battery, backboard and I/O Unit	No	2	R	-
4.2.5	Resettable Break Glass Unit				
	Supply and installation of addressable manual call points complete with resettable elements - surface mounted				
4.2.5.1	Manual Call Point (Red) - supplied complete with clear plastic hinged cover	No	2	R	-
4.2.5.2	Weatherproof manual call point red supplied complete with clear plastic hinged cover	No			
4.2.5.3	Emergency Door Release (Green) - complete with clear plastic hinged cover	No	2	R	-
TOTAL TRANSFERRED TO NEXT PAGE					R -

PART C2.2.4					
BILL No. 4 - Fire Detection & Alarm System - PHASE 2					
Item	Description	Unit	Qty	Tariff	Amount
	TOTAL TRANSFERRED FROM PAGE 2	Sum			R -
4.2.6	Audible and visual alarms				
4.2.6.1	Supply and installation of surface mounted horn sounder and strobe visual indicator (white) complete with base	No			
4.2.6.2	Supply and installation of addressable weatherproof Sounder Beacon (Red)	No	2	R	-
4.2.7	Interface and Control				
	Supply and installation of interface units and relays supplied complete with surface mounted single relay box (SMB-DIN1) c/w DIN-35 rails for fixing				
4.2.7.1	Input/Output Relay Unit	No	2	R	-
4.2.7.2	Isolator Base Supplied complete with Cover to suit	No	5	R	-
4.3	CONDUIT, WIREWAYS & ACCESSORIES				
	Conduit as specified under clause 3.3 of the standard specification including bending, jointing, short lengths, draw boxes, expansion joints, adaptors, round coverplates with chrome screws/bends and conduit ends which are to be allowed for in the conduit per meter rate.				
4.3.1	PVC Conduit				
4.3.1.1	Ø25mm PVC conduit built or chased into brick walls	m			
4.3.1.2	Ø25mm PVC conduit on surface against underside of the concrete slab or against brick walls complete with galvanised saddles spaced at 500mm centres	m	170	R	-
4.3.1.3	Ø25mm PVC conduit chased underground complete with sand bedding, top fill and compaction.	m	40	R	-
4.3.2	Galvanised / Bosal Conduit				
4.3.2.1	Ø25mm Galvanized / Bosal Conduit on surface against underside of the concrete slab or against brick walls	m			
4.3.3	Draw Wire - Supply and Install by Electrical Contractor				
4.3.3.1	Galvanised draw wire installed in conduits.	m			
4.3.4	Wire Baskets				
4.3.4.1	HDG Wire Mesh Cable Tray 100mm medium duty	m	150	R	-
TOTAL TRANSFERRED TO NEXT PAGE					R -

PART C2.2.4					
BILL No. 4 - Fire Detection & Alarm System - PHASE 2					
Item	Description	Unit	Qty	Tariff	Amount
	TOTAL TRANSFERRED FROM PAGE 2	Sum			R -
4.4	DOOR AUXILLARY				
4.4.1	Access Control				
	Removal and reinstatement of access control maglocks to facilitate replacement of existing doors.				
	Provision to be made to interlock with the new fire detection and alarm system when reinstating the access control system (fire system relays measured elsewhere)				
4.4.1.1	Single Door	item	2		R -
4.4.1.2	Double Door	item			
4.4.2	Magnetic Hold Open Devices				
	Installation of new magnetic hold open devices complete with power supply, battery backup surface mount door holder with release button and Input/Output relay complete				
4.4.2.1	Single Door	Item			
4.4.2.2	Double Door	Item			
TOTAL TRANSFERRED TO BILL SUMMARY - PART C2.3					R -

PART C2.2.5					
BILL No. 5 - Fire Doors & Builder's Work					
Item	Description	Unit	Qty	Tariff	Amount
5	Fire Doors and Builders Work				
	Contractor to supply, deliver and install doors complete with fire sealing around frame inclusive of painting the door and its frame.				
	Fire Doors and their installation to be compliant to SANS 10400:T (Relevant parts) and SANS 1253.				
5.1	Fire Door Hardware				
	<i>Rate to be inclusive of brickwork, plaster and paint to new fire doors (assume a maximum wall projection of 300mm either side of frame with a height of 2,8m</i>				
5.1.1	Single leaf Class A fire door c/w painting, hinges and frame complete	No	18	R	-
5.1.2	Double leaf ClassA fire door c/w painting, hinges and frame complete	No	17	R	-
5.1.3	Single leaf Class B fire door c/w painting, hinges and frame complete	No	1	R	-
5.1.4	Double leaf Class B fire door c/w painting, hinges and frame complete	No	1	R	-
5.2	Ironmongery				
	<i>Ironmongery rate shall include all necessary fixations, screws etc as required for installation</i>				
5.2.1	Single Door Closer c/w R&P Closer and mounting plate	No	17	R	-
5.2.2	Double Door Closer c/w 2-off R&P Closers, fire door coordinator, and mounting plates	No	17	R	-
5.2.3	Locks c/w escutcheon, thumb turn and key cylinder profile (thumb turn on fire side) and deadlock	No	34	R	-
5.2.4	300mm SS Pull Handle	No	34	R	-
5.2.5	150x300 SS Push Plate	No	34	R	-
5.3	Existing Door Alterations				
5.3.1	Removal and reinstatement of existing shopfront doors to correct the door swing to open in the direction of egress	Item	3	R	-
5.3.2	Replacement of existing locking mechanisms with new thumb turn locks	Item	5	R	-
5.4	Builder's Work				
5.4.1	Brickwork required around fire new fire doors.	m2	220	R	-
5.4.2	Fire Stopping and sealing around fire doors	Item	40	R	-
5.4.3	Trenching through existing asphalt for installation of new cable sleeves. Rate to include for making good layer works, and road surface to match existing	m	50	R	-
5.4.4	Core Drill Ø100 n.e 300mm thick concrete slab. Rate to include fire stopping penetration to 120min fire rating	No	5	R	-
TOTAL TRANSFERRED TO BILL SUMMARY - PART C2.3					R -

PROJECT NUMBER:
231064

PROJECT NAME:
CSIR - DURBAN

FIRE DETECTION INSTALLATION
AUGUST 2024

SUBJECT : SUMMARY OF TENDER SUMS				
PART C2.3				
PART NO	BILL			Amount
	ITEM NO	DESCRIPTION	PAGE NO.	
C2.2.1	1	BILL No. 1 - PRELIMINARIES	1-2	R -
C2.2.2	2	PROVISIONAL AMOUNTS FOR P&G	1-1	R 50 000.00
C2.2.3	3	FIRE DETECTION & ALARM SYSTEM - PHASE 1	1-4	R -
C2.2.4	4	FIRE DETECTION & ALARM SYSTEM - PHASE 2	1-4	R -
C2.2.5	5	FIRE DOORS AND BUILDER'S WORK	1-1	R -
C.3	6	PROVISION FOR CONTINGENCY (10%)	1-1	R 5 000.00
Subtotal to be transferred to the Form of Tender				R 55 000.00