FIRE DETECTION INSTALLATION BILLS OF QUANTITIES

Project Name : **LAHAE LA SARS - BASEMENT**		Date:	**2023-08-23**
Drawing Reference : **21B09-D-600-01**		Page	**1 of 4**
Location : **BROOKLYN**		Prepared by:	**S.C**
Floor level : **BASEMENT**		Revision:	**0**

BILL N°1
PRELIMINARY AND GENERAL ITEMS

item	Description	Unit	Qty.	Rate	Amount R c
1	**ALL ITEMS SHALL BE PRICED INDIVIDUALLY AS A LUMP SUM WILL NOT BE ACCEPTABLE!**				
	Tenderer shall allow for whatever cost he may consider necessary for Preliminary and General Items to carry out the Fire Detection Installations in full, as detailed in the drawings, Specifications and Schedules, which shall include, but shall not be limited,				
1.1	Testing & Commissioning of installation	Item	1		
1.2	Clearing	Item	1		
1.3	Site meetings	Item	1		
1.4	Installation - shop drawings	Item	1		
1.5	Submission of electrical requirements for installation	Item	1		
1.6	Labelling of equipment	Item	1		
1.7	Operation and maintenance manuals 3-off paper and 3-off pdf electronic copies on a CD	Item	1		
1.8	Provision of As built Drawings and documents	Item	1		
1.9	Any necessary calculations requested by the engineer	Item	1		
1.10	Equipment submissions	Item	1		
1.11	Statutory authorities - site inspections	Item	1		
1.12	Training and Hand over of installation to client	Item	1		
1.13	SAQCC Certificate of competancy submission	Item	1		
1.14	SANS 10139 installation and commission certification	Item	1		
1.15	Funtionality test on both normal and emergency power with Professional team and Municipal officials	Item	1		
1.16	Any other items	Item			
	Total for this page carried forward to final collection page:				

BILL N°2 - FIRE DETECTION EQUIPMENT				Page	2 of 4
Item	**Description**	**Unit**	**Qty.**	**Rate**	**Amount**
2	**Fire Resistant Cables:**				
	Supply and install fire resistant cables = PH30 in accordance with SANS 10139. Allow for cabling of the appropriate diameter for the detection system				
2.1	Loop 1	m	840		
2.2	**Conduit**:				
2.2.1	Supply and install of Ø25mm PVC conduits with all required accessories	m	420		
3	**FIRE DETECTION FIELD EQUIPMENT:**				
3.1	**Analogue Addressable Smoke Detectors:**				
3.1.1	Smoke Detectors	No.	10		
3.1.2	Detectors Bases	No.	10		
3.2	**Analogue Addressable Heat Detectors:**				
3.2.1	Heat Detectors	No.	42		
3.2.2	Detectors Bases	No.	42		
3.3	**Analogue Addressable Manual Fire Alarm Points:**				
3.3.1	Manual Fire Alarm Points	No.	4		
3.3.2	Manual Fire Alarm Point bases	No.	4		
4	**FIRE DETECTION AUXILIARY EQUIPMENT:**				
4.1	Alarm Sounder with StrobeLights	No.	4		
4.2	Alarm Sounder and Strobe Lights bases	No.	4		
5	**Relay/Input - Output Units**				
5.1	Fresh Air Fan and AC System-Stop	No.	6		
5.2	Ducted air conditions system - Stop	No.	6		
5.3	Additional Line Relays	No.	4		
5.4	Access control doors to release	No.	2		
5.5	Brackets	Item	Sum		
5	**Any item not listed (Specify)**				
	Total for bill No.2 carried forward to final collection page:				

BILL N°3
SCAFFOLDING & ERECTION EQUIPMENT AND PROJECT ENGINEERS, TESTING, COMMISSIONING & HANDOVER

Item	Description	Unit	Qty.	Rate	Amount
1	**SCAFFOLDING AND ERECTION EQUIPMENT**				
1.1	SCAFFOLDING : Allow for the provision, erection, use, dismantling and transportation of scaffolding in accordance with the requirements of the Occupational Health and Safety Act (Act 85 of 1993). Note: No scaffolding will be provided by others	Item	Sum		
1.2	ERECTION EQUIPMENT : Allow for any additional erection equipment required for the installation of the fire detection system to all portions of the building as indicated on the tender drawings. Note: As there is no scaffolding or erection equipment on site for general use, it is the tenderer's obligation to provide all his own scaffolding erection equipment for his use.	Item	Sum		
2	**PROJECT ENGINEERING, TESTING, COMMISSIONING AND HANDOVER**				
2.1	PROJECT ENGINEERING : Allow for provision of project engineering, management and quality control in accordance with the conditions of subcontract.	Item	Sum		
2.2	ONE YEAR'S FREE MAINTENANCE AND GUARANTEE : Allow for one year's free maintenance and guarantee in accordance with specifications.	Item	Sum		
2.3	LABOUR, TESTING, COMMISSIONING AND HANDOVER : Allow for all factors required for the testing, commissioning and handover of systems and equipment associated with this specification.	Item	Sum		
2.4	INSTRUCTION MANUALS, DRAWINGS, ETC : Allow for the production of all instruction manuals, drawings, details, etc. Required for the systems and equipment associated with this specification.	Item	Sum		
2.5	Any item not listed (Specify)	Item	Sum		
	Total for bill No.3 carried forward to final collection page:				

FINAL COLLECTION PAGE				Page 4 of 4
Item	Description			Amount R c
1	**Bill No. 1** Preliminary and General			
2	**Bill No. 2 - Basement** Fire Detection Control Equipment, Fire Detection Conduits and Cables, Fire Detection Field Equipment, Fire Detection Auxiliary Equipment			
3	**Bill No. 3 - Scaffolding and Errection Equipments** Scaffolding and Erection Equipment, Project Engineering, Testing, Commissioning and Handover			
4	**Subtotal (items 1 to 3)**			
5	Allow for contingencies associated with any changes during construction. Related to the following:			R 18 000.00
5.1	After hours work	R	8 000.00	
5.2	Health and safety file	R	6 000.00	
5.3	Possible construction changes	R	4 000.00	
6	**Subtotal (Item 4 and 5)**			
7	**Add VAT (15% of The item 6)**			
8	**Total Contract Value (Items 6 and 7)**			
Total Contract Value Carried to Main Contractor's Bill				