

BILL OF QUANTITIES

FOR

**FIRE DETECTION WORKS AT ZAMMSA
LUASHYA HUB.**

FOR

ZAMMSA

CONSULTING ENGINEERS AND PROJECT MANAGER :

CLIENT

DH ENGINEERING CONSULTANTS LTD
P.O. BOX: 37928
LUSAKA
ZAMBIA

CHEMONICS
P O BOX : 30207
LUSAKA,
ZAMBIA

| Item | Description of Work | Unit | Qty. | Rate | | Amount | |
|------------|--|------|------|------|---|--------|---|
| | | | | US\$ | C | US\$ | C |
| 1.0 | BILL-1- Preliminary and General | | | | | | |
| 1.1 | Preliminary (includes Site Establishment/ Office, Transportation, Equipment, Test, storage etc required by the Contractor) | Item | Item | | | | |
| 1.2 | Allow for attendance at any and all inspections, testing and meetings required by the Consulting Engineers | Item | Item | | | | |
| 1.3 | Allow for attendance at any and all site meetings required by the Engineer | Item | Item | | | | |
| 1.4 | Allow for protection of Fire Alarm Installation upto Testing and Commissioning stage | Item | Item | | | | |
| 1.5 | Provide Compliance Certificate at all stages of the installation (e.g. First Fix, Second Fix & Final Fix) | Item | Item | | | | |
| 1.6 | Provide Two Sets of "As Built" drawings and Equipment Manuals of the Fire Alarm Installation | Item | Item | | | | |
| 1.7 | Allow for any other item not provided for in the (Detailed as below) | Item | Item | | | | |
| | <p>Note the client will provide mobile high lift stairs for use by the contractor, but the contractor must allow for mobile scaffolding for use on site</p> <p>Where not stated in the BOQ the Technical Specifications and Drawings will take precedence over the BOQ. The contractor must take note of this when pricing</p> <p>This is an operational site and as such the contractor must be aware that work schedules will be dictated by the client and as such the contractor must allow for out of hours and non-sequential works in order to avoid any inconvenience to the client.</p> <p>Note: Above mentioned items need to be</p> <p>Sub-Total of Bill 1- Preliminary and General</p> | | | | | | |

| Item | Description of Work | Unit | Qty. | Rate | | Amount | |
|------------|--|------|------|------|---|--------|---|
| | | | | US\$ | C | US\$ | C |
| | | | | US\$ | | | |
| 2.0 | FIRE ALARM RETICULATION (Refer drg. No. DH20/2022/E01and E02) Supply, deliver, install & set to work the following Fire Alarm Panel and accessories | | | | | | |
| 2.1 | Addressable Fire Alarm Panel -2 Loop c/w Network Card and 72 hour Battery back-up, Make -EATON CF1200NC | No. | 1 | | | | |
| 2.2 | Fire Alarm Sounder, Make EATON COPWS | No. | 8 | | | | |
| 2.3 | Fire Alarm Sounder -Weatherproof Type, Make EATON COPWS-WP | No. | 1 | | | | |
| 2.4 | Loop Connected LED Beacon -Weatherproof Type, Make EATON | No. | 1 | | | | |
| 2.5 | Addressable Manual Fire Alarm Break Glass Unit, Make EATON COPBGU-S | No. | 6 | | | | |
| 2.6 | Optical Smoke Detector, Make EATON COPP420 | No. | 49 | | | | |
| 2.7 | Fire Retardant cable- 2.5mm sq PVC/Cu in 25mm sq PVC Conduit to connect Fire Panels to Break Glass, Sounder, Smoke Detectors | M | 1500 | | | | |
| 2.8 | 25mm PVC Conduits with All Complete Accessories. | M | 390 | | | | |
| 2.9 | looping Boxes PVC | No. | 39 | | | | |
| 2.1 | Addressable Temperature Heat Detectors | No. | 1 | | | | |

| Item | Description of Work | Unit | Qty. | Rate | | Amount | |
|---|---|------|------|------|---|-------------|---|
| | | | | US\$ | C | US\$ | C |
| 2.11 | 12VDC. 7AH Batteries For Conventional Fire Alarm Control Panel(Hazardous Store) | No. | 2 | | | | |
| 2.22 | Allow for the Removal of Existing and Re - Installation of the Conventional Alarm Control Panel, including Bell, Sounders/Beacons,Smoke Detectors,Manual Call Points, Power Supply and a weatherproof enclosure with panel mounted externally In the Hazardous Store. | Item | Item | | | | |
| 2.23 | Installation/Labour Charges. | Item | Item | | | | |
| 2.24 | Test and Commissioning Charges | Item | Item | | | | |
| Sub-Total of Bill 2, Fire Alarm Installation Carried to Main Summary | | | | | | | |
| | | | | | | US\$ | |

MAIN SUMMARY- FIRE ALARM INSTALLATION WORKS

| Bill No. | Description of Work | Amount | |
|---------------------|-------------------------|-------------|---|
| | | US\$ | C |
| 1.0 | Preliminary and General | | |
| 2.0 | Fire Alarm Installation | | |
| 3.0 | Allow Contingency of 5% | | |
| SUB TOTAL | | US\$ | |
| TOTAL AMOUNT | | US\$ | |