

ITEM	DESCRIPTION	UNIT	QTY	RATE	FIRE SPRINKLER SYSTEM USD
<u>PROPOSED FIRE SPRINKLER SYSTEM AT ZAMMSA LUANSHYA REGIONAL HUB</u>					
<u>BILL NO. 1</u>					
<u>PRELIMINARY AND GENERAL ITEMS</u>					
A	The Tenderer is to allow for all Contract Preliminaries which he considers necessary to comply with all his obligations and all his charges including access to site, general attendance, security of works, all materials, tools and equipment, supervision and labour, possession and completion of works, variations, possession, fluctuations terms of payment, antiquities and arbitration		Item		
B	Testing , Commissioning and training of the end user .		Item		
C	Operation and Maintenance Manuals		Item		
D	Client will provide use of in house High Lift Stairs for use by the contractor. Water and Power will also be provided at no cost by the Client. Contractor must allow for installation of their own scaffolding where required. Preferably mobile scaffolding as the premises will be operation during installation				
E	Contractor must allow for the fact that the site is an operational facility and allowance must be made to work to the client's schedule and out of hours where required to avoid any inconvenience to the client's operations				
F	Technical Specifications and Drawings have been provided for the Fire Sprinkler System. The Technical Specifications and Drawings will take precedence over the Bills of Quantities where a discrepancy arises. When pricing reference to these two documents must be made				
G	Allow for 12 months warranty on all equipment and workmanship as well as call out service to attend to any defects During this period servicing and tresting of fire sprinkler equipment is to be provided		item		
H	Allow for Bonds and Insurances as required		item		
I	Allow for the provision of all PPE, compliance to Covid-19 regulations, preparation and submission of a Health and Safety Plan and compliance to the Cliwent's Health and safety Regulations on site		item		
J	The Tenderer is advised that should he require to insert prices for any items not specifically included above which he considers necessary in order to comply with all his obligations under the Contract Documents, he shall list them below and insert the prices in the Money Column				
TOTAL CARRIED TO GENERAL SUMMARY				USD	- ----- -----

ITEM	DESCRIPTION	UNIT	QTY	RATE	USD
	SUPPLY, INSTALL AND SET TO WORK				
	BILL NO.2				
	EXISTING WARE HOUSE				
	EXISTING PIPEWORK				
A	Remove Existing Sprinkler heads and hand back to Client.	Item			
	SOLID DRAWN MEDIUM DUTY MILD STEEL SCHED 40 PIPING AND FIXING in accordance with the recommended manufacturer's instructions and as shown on relevant drawings				
B	80mm Ditto	m	18		
C	50mm Ditto	m	6		
	Extra over the foregoing pipework for the following fittings				
D	80mm Grooved coupling	No	2		
E	50mm Socket	No	2		
F	200mm Grooved Coupling	No	2		
	Carried to Collection			USD	
ITEM	DESCRIPTION	UNIT	QTY	RATE	USD
	SUPPLY AND FIX NEW FIRE SPRINKLER HEADS				
J	15mm Brass pendant 68 degrees conventional automatic sprinkler head with white ceiling rosette as described with operating temperature of 68 / 78 degrees Celsius and jointing complete with heat shield on each sprinkler head	No	240		
	FIRE EXTINGUISHERS				
	Portable Dry Powder type fire extinguisher with wall fixing brackets, capacity . 9 Kg	No	2		
	FIRE HOSE REEL				
	Fixed type hose reel of 25 mm hose 30m long with metal case, spray nozzle, gride bracket, stop valve, pressure gauge and wall mounting bracket as specified on drawing no.	No	2		
	FIRE HYDRANT				
	Fire Hydrant comprising 75mm brass hydrant valve clamped on wall approximately 1,000mm above ground level including joint to 80mm water supply	No	2		
	MOBILE FOAM CANON				
	Supply to site mobile foam canon complete with 90 kg tank, hose and nozzle on wheeled frame	No	1		
	PAINTING				
K	Apply one coat etching primer and paint two coats signal red gloss enamel to all pipes	m	50		
	EXISTING WATER TANK				

FIRE SPRINKLER SYSTEM
USD

L Allow for draining, cleaning and sterilising of the existing water tank .

Carried to Collection

USD

ITEM	DESCRIPTION	UNIT	QTY	RATE	USD
	SUPPLY, INSTALL AND SET TO WORK				FIRE SPRINKLER SYSTEM
	<u>BILL NO.3</u>				
	<u>CONNECTING MAINS</u>				
	<u>SEAMLESS SCH.40 Mild Steel Pipes</u> <u>all in accordance with the manufacturer's instructions</u>				
A	Above Ground Mounted 200mm seamless Sch. 40 carbon steel Pipes with steel pipe supports and concrete plinths fixed to ground. Include for painting of all pipework with primer, undercoat and final coat of signal red.	m	60		
B	Below Ground Mounted 200mm seamless Sch. 40 carbon steel pipes wrapped in Denso tape. Include for sand bedding and concrete haunching with MP10 mix along length of pipe.	m	30		
C	Allow for connections from existing tank to new pump set inclusive of piping, fittings, valves and pipe supports	Item	1		
	<u>Extra over the foregoing pipework for the following fittings</u>				
D	200mm Grooved coupling	no	12		
E	200x150mm W/on reducer	no	10		
F	200mm W/on tee	no	8		
	<u>Extra over the foregoing pipework for the following fittings (cont'd)</u>				
G	200mm Socket union	no	3		
H	150mm Equal tee	no	2		
I	50mm Socket	no	5		
J	Insertion rubber	m	12		
K	Anti vibration on the suction line and the test line	no	1		
L	Vortex inhibitors	no	2		
	<u>Installation Control Valves (ICV)</u>				
M	Supply and fit and set to work installation control valves complete with all necessary fittings as detailed on drawings and specifications	no	1		
N	Allow for connections from new ICV to existing pipework inclusive of piping, fittings, valves and pipe supports. All pipe work to be painted with primer and final coat of signal red	Item	1		

Allow lump sum for signage at ICV, FHR's Hydrants, Fire Pump, Fire Panels and Fire Exits	Item	1	USD	
Carried to Collection				

SUPPLY, INSTALL AND SET TO WORK			FIRE SPRINKLER SYSTEM		
ITEM	DESCRIPTION	UNIT	QTY	RATE	USD
<u>BILL NO.4</u>					
<u>FIRE PUMPS</u>					
<u>FIRE PUMPS</u>					
A	ASIB Approved Containerised Centrifugal Fire Pumpset as Davron comprising 2 X duty and 1 X jockey pumps as described as described or equivalent fully approved manufacturer with <i>Minimum Capacity:2900 l/m @80 m HD</i>				
1	75.0 KW, 3PHASE /50Hz/ 380V (Electric pump) complete installed <i>Comprising:</i> - Pressure switches - Red warning light for fixing on valve chamber - Control panels as described - Anti-vibration mounts				
2	66 KW,3 PHASE (Diesel) <i>Comprising:</i> - Pressure switches - Red warning light for fixing on valve chamber - Control panels as described - Anti-vibration mounts				
3	Pressure maintaining 1.1 KW "Jockey" pump as described all by a fully approved manufacturer and suitable for automatic operation by water pressure switch with: <i>Capacity: 20litres / minute at 5.5 bars</i> <i>Power Source : 380V/3Phase/50Hz</i> <i>Comprising:</i> - Pressure switch - Control panel as described - Anti-vibration mounts	Set	1		
	Complete with external siren and strobe light to indicate Fire Pump is running				
<u>PUMP CONTAINER CIVIL WORKS CONSTRUCTION</u>					
B	Allow for the construction of concrete containerised pump supports cast offsite and laid on levelled ground				
<u>CONTENERIZED FIRE PUMP ELECTRICITY SUPPLY</u>					
C	Allow for power supply to the pump set from pump DB inclusive of cable and breakers.	lot			
<u>TESTING OF FIRE FIGHTING SYSTEM</u>					
D	Include for carrying out in the presence of the Engineer a static pressure test at the furthest point on each system to 1.5 times the maximum operating pressure i.e. 16 bar		Item		
E	Include for carrying out in the presence of the Engineer a discharge test on any sprinkler outlet to be decided by the Engineer. The Contractor or his Subcontractor shall provide a hose connection and length of 25mm hose to lead the discharge to outside the building		Item		

F Include for carrying out in the presence of the Engineer a running pressure test

G Include for carrying out in the presence of the Engineer a test of the hydraulic alarm system

H Allow for as built drawings and all manuals to be submitted as a project handover file on completion of all works.

Item

item

Carried to Collection

USD

ITEM	DESCRIPTION	UNIT	QTY	FIRE SPRINKLER SYSTEM SUMMARY USD
	<u>PROPOSED FIRE SPRINKLER SYSTEM FOR LUANSHYA ZAMMSA REGIONAL HUB.</u>			
	<u>GENERAL SUMMARY</u>			
1	BILL NO.1 PRELIMINARY AND GENERAL ITEMS			
2	BILL NO.2 EXISTING WAREHOUSE			
3	BILL NO.3 MAINS CONNECTION			
4	BILL NO.4 FIRE PUMP			
6	ALLOW A CONTINGENCY 5%			
				USD
	TOTAL AMOUNT OF OFFER			USD
	<u>NO FLUCTUATIONS CLAUSE</u>			
	There will be no fluctuations on this contract. The Contract rates are <u>FIXED</u> in US Dollars and payment for work done will be made in same currency.			
	Name Contractor:.....			
	Signature:.....			
	Date:.....			
	VALIDITY OF QUOTATION			