

Bill of Quantities for Fire Protection System & Civil Works Allied To Fire Fighting Works For Statelife Building # 11, Karachi		
BOQ Summary		
S.No.	Description	Total Amount (Rs.)
1	Bill of Quantities for Fire Protection System Works for Statelife Building # 11, Karachi	
2	Bill of Quantities for Fire Protection System (Civil Works) for Statelife Building # 11, Karachi	
	Grand Total	

NOTE: The above quoted rates should be inclusive of all relevant applicable taxes, profit, levies and transportation charges e.t.c

Total Amount in Words: _____

Signature and Seal of Tenderer: _____

Bill of Quantities for Fire Protection System Works for Statelife Building # 11, Karachi		
BOQ Summary		
Item No.	Description	Total Cost of supply and Installation (Rs.)
1	FIRE PUMP SET	
2	OS & Y GATE VALVE	
3	CHECK VALVE	
4	STRAINERS WITH BALL VALVE WITH MATERIAL/FLANGES/UNIONS etc.	
5	FLEXIBLE CONNECTOR	
6	DOYMA SLEEVE	
7	PORTABLE FIRE EXTINGUISHER	
8	HIGH DENSITY POLYETHYLENE PIPE (HDPE) FOR BURRIED APPLICATIONS	
9	BLACK STEEL SCHEDULE 40 PIPING	
10	FIRE BRIGADE CONNECTION	
11	FIRE HOSE REEL & HYDRANT VALVES	
12	FIRE PROTECTION SYSTEM ACCEPTANCE TEST	
13	PAINTING COATING & STENCILING	
14	ALARM CHECK VALVE ASSEMBLY	
15	ZONE CONTROL VALVE ASSEMBLY	
16	FIRE SPRINKLERS	
17	MISCELLANEOUS Of Fire	
	Total Amount in Rupees (Rs.)	
	__% SST on Installation (Rs.)	
	Grand Total Amount in Rupees including SST (Rs.)	

NOTE:The above quoted rates should be inclusive of all relevant applicable taxes , profit , levies and transportation charges e.t.c

Total Amount in Words: _____

Signature and Seal of Tenderer: _____

Bill of Quantities for Fire Protection System Works for Statelife Building # 11, Karachi								
Item No.	Description	Qty.	Unit	Material		Installation		Total
				Rate	Amount	Rate	Amount	Amount
				(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
1	2	3	4	5	6	7	8	9
1.0	FIRE PUMP SET							
1.1	Supply and Installation of Fire Pump 1 No. Electrical Motor Driven, 1 No. Diesel Engine driven fire pump & 1 No. Electric Motor Driven Jockey pump Complete With Controller including supply of all consumables with supply & installation of flow meter, waste cone, pressure relief valve etc. including supply of all consumables required for installation complete in all respects.	1	Job					
1.2	Foundation & Support for Diesel Engine, Electric Engine Fire Pumps and Jockey Pump and Diesel Tank with containment bund.	1	Job					
1.3	Supply and Installation of Wiring between Diesel Fire Pump Sets and Controller	1	Job					
1.4	Supply and Installation of Wiring between Electric Fire Pump Sets and Controller	1	Job					
1.5	Supply and Installation of Wiring between Jockey Pump Set and Controller	1	Job					
1.6	Fuel Piping Connection to Diesel Engine & Fuel Sensing Line	1	Job					
1.7	Supply & Installation of Fire Engine Exhaust Pipe (MS) - Ø 8" with 4" thick Rockwool Insulation & Cladding	1	Job					
1.8	Fire Pumps Water Pressure Sensing Lines							
1.8.1	Stainless Steel tubing & their hookup with controller As Per NFPA	1	Job					
1.8.2	Stainless Steel Globe Valve - Ø 1/2 inch	12	Nos.					
1.8.3	Stainless Steel Tee - Ø 1/2 inch With 1/4 Inch Plug	6	Nos.					
1.8.4	Ø1/2 inch - Stainless Steel Check Valve with 3/32 Inch Orifice in Clapper	6	Nos.					
1.9	Testing & Commissioning of Fire Pumps	1	Job					
Total								

Item No.	Description	Qty.	Unit	Material		Installation		Total
				Rate	Amount	Rate	Amount	Amount
				(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
					(3) x (5)		(3) x (7)	(6) + (8)
1	2	3	4	5	6	7	8	9
2.0	OS & Y GATE VALVE							
2.1	Ø8 inch (Pressure Class 300 / PN 20)	2	No.					
2.2	Ø6 inch (Pressure Class 300 / PN 20)	6	No.					
2.3	Ø4 inch (Pressure Class 300 / PN 20)	1	No.					
2.4	Ø3 inch (Pressure Class 300 / PN 20)	16	No.					
2.5	Ø3 inch (Pressure Class 235 / PN 16)	14	No.					
2.6	Ø 2 1/2 inch (Pressure Class 300 / PN 20)	2	No.					
Total								
3.0	CHECK VALVE							
3.1	Ø6 inch (Pressure Class 300 / PN 20)	2	No.					
3.2	Ø4 inch (Pressure Class 300 / PN 20)	2	No.					
3.3	Ø2 1/2 inch(Pressure Class 300 / PN 20)	1	No.					
Total								
4.0	STRAINERS WITH BALL VALVE WITH MATERIAL/FLANGES/UNIONS etc.							
4.1	Ø 2 ½ inch (Pressure Class 300 / PN 20)	1	No.					
Total								
5.0	FLEXIBLE CONNECTOR							
5.1	Ø 8 inch (Pressure Class 300 / PN 20)	2	Nos.					
5.2	Ø 6 inch (Pressure Class 300 / PN 20)	2	Nos.					
5.3	Ø 2 ½ inch (Pressure Class 300 / PN 20)	2	No.					
Total								
6.0	DOYMA SLEEVE							
6.1	Ø 8 inch	2	Nos.					
6.2	Ø 6 inch	2	Nos.					
Total								
7.0	PORTABLE FIRE EXTINGUISHER							
7.1	Supply & Installation of 6kg Dry Powder Extinguisher (ABC)	31	Nos.					
7.2	Supply & Installation of 5kg CO2 Fire Extinguisher	32	Nos.					
7.3	Supply & Installation of K type Wet Chemical 6kg Fire Extinguisher	13	Nos.					
Total								
8.0	HIGH DENSITY POLYETHYLENE PIPE (HDPE) FOR BURRIED APPLICATIONS							
	All Indicated Pipe Diameters are internal Pipe Diameter							
8.1	Ø 6 inch (150 mm)	-	Rft		Rate Only		Rate Only	Rate Only
8.2	Ø 8 inch (200 mm)	-	Rft		Rate Only		Rate Only	Rate Only
Total								

Item No.	Description	Qty.	Unit	Material		Installation		Total
				Rate	Amount	Rate	Amount	Amount
				(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
					(3) x (5)		(3) x (7)	(6) + (8)
1	2	3	4	5	6	7	8	9
9.0	BLACK STEEL SCHEDULE 40 PIPING							
9.1	Ø 10 inch	20	Rft					
9.2	Ø 8 inch	300	Rft					
9.3	Ø 6 inch	1,180	Rft					
9.4	Ø 4 inch	4,550	Rft					
9.5	Ø 3 inch	160	Rft					
9.6	Ø 2 1/2 inch	80	Rft					
9.7	Ø 2 inch	20	Rft					
9.8	Ø 1 1/2 inch	410	Rft					
9.9	Ø 1 1/4 inch	1,390	Rft					
9.10	Ø 1 inch	4,950	Rft					
Total								
10.0	FIRE BRIGADE CONNECTION							
10.1	Fire Brigade Connection (Pressure Class 300 / PN 20)	2	No.					
10.2	Cabinet of Fire Brigade Connection	2	No.					
Total								
11.0	FIRE HOSE REEL & HYDRANT VALVES							
11.1	Fire Hose Reel With Double Cabinet, PRV, Lock Sheild Valve - Ø 1 inch x 100ft (Powder Coated)	31	Nos.					
11.2	External Fire Hydrant - Floor Mounted (Pressure Class 300 / PN 20) with PRV & Quick Coupling	-	Nos.					
11.3	Ø 2 1/2 inch External Fire Hydrant - Double Headed Hydrant Valve (Pressure Class 300 / PN 20) with PRV & Quick Coupling	2	Nos.					
11.4	Ø 2 1/2 inch Hydrant Valve with Quick Coupling	18	Nos.					
11.5	Ø 2 1/2 inch Hydrant Valve with PRV (Pressure Class 300 / PN 20) with Quick Coupling	32	Nos.					
11.6	Fire Hose Cabinet with 2 x 100Ft , Ø 2 1/2 inch Quick Coupling Hose, 2 Nos. Diffuser Nozzle	52	Nos.					
Total								
12.0	FIRE PROTECTION SYSTEM ACCEPTANCE TEST							
12.1	Fire Protection System Acceptance Test	1	Job					
Total								

Item No.	Description	Qty.	Unit	Material		Installation		Total
				Rate	Amount	Rate	Amount	Amount
				(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
					(3) x (5)		(3) x (7)	(6) + (8)
1	2	3	4	5	6	7	8	9
13.0	PAINTING COATING & STENCILING							
	Painting, Coating							
13.1	Ø 10 inch	20	Rft					
13.2	Ø 8 inch	300	Rft					
13.3	Ø 6 inch	1,180	Rft					
13.4	Ø 4 inch	4,550	Rft					
13.5	Ø 3 inch	160	Rft					
13.6	Ø 2 1/2 inch	80	Rft					
13.7	Ø 2 inch	20	Rft					
13.8	Ø 1 1/2 inch	410	Rft					
13.9	Ø 1 1/4 inch	1,390	Rft					
13.10	Ø 1 inch	4,950	Rft					
13.11	Stenciling & Identification Tags of Valves	1	Job					
13.12	Signage as per NFPA (For Example: Signage of Fire Hose Reel, Landing Valve etc)	1	Job					
Total								
14.0	ALARM CHECK VALVE ASSEMBLY							
14.1	Alarm Check Valve Assembly (Pressure Class 300 / PN 20) - Ø6 inch (150 mm)	1	No.					
Total								
15.0	ZONE CONTROL VALVE ASSEMBLY							
15.1	Ø6 inch (150 mm) Zone Control Valve Assembly with PRV Including Butterfly Valve (Pressure Class 300 / PN20) with Flow Switch, PRV with Guages, Check Valve, Pressure Gauge, Drain Assembly & Sight Glass Complete in all respects	10	No.					
15.2	Ø6 inch (150 mm) Zone Control Valve Assembly including Butterfly Valve with Flow Switch, Check Valve, Pressure Gauge, Drain Assembly & Sight Glass Complete in all respects	7	No.					
Total								

Item No.	Description	Qty.	Unit	Material		Installation		Total
				Rate	Amount	Rate	Amount	Amount
				(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
					(3) x (5)		(3) x (7)	(6) + (8)
1	2	3	4	5	6	7	8	9
16.0	FIRE SPRINKLERS							
16.1	Fire Sprinkler-Pendent Ceiling Concealed, Quick Response	182	No.					
16.2	Fire Sprinkler-Upright, Quick Response	329	No.					
16.2	Fire Sprinkler-Upright with guard, Quick Response	-	No.					
16.3	Cabinet complete with 06 Spare Sprinklers (Upright Quick response)	2	Nos.					
16.4	Cabinet complete with 06 Spare Sprinklers (Pendent Ceiling Concealed, Quick Response)	1	Nos.					
Total								
17.0	MISCELLANEOUS							
17.1	Hydrostatic Testing	1	Job					
17.2	Shop Drawings	1	Job					
17.3	As Built Drawings	1	Job					
17.4	Automatic Air Vent - Ø 3/4 inch	4	Nos.					
17.5	Ball Valve - Ø 3/4 inch	4	Nos.					
17.6	Fire Stopping of Walls & Structure Openings (For Small Openings - Hilti FS - ONE or Approved Equivalent)	1	Job					
17.7	Pipe Sleeves	1	Job					
17.8	Stainless Steel Vortex Plate as per detail	1	Job					
17.9	Isolation / Gate Valves Locks (Wire / Chain Type)	41	Nos.					
17.10	Structural Openings & Core Cuts	1	Job					
17.11	Operation & Maintenance Manuals	1	Job					
17.12	Stainless Steel Vortex Plate - As per Pipe Dia mentioned in drawing and detail	1	Job					
17.13	Engineering Support System for Fire Protection System	1	Job					
17.14	Inspector Test and Drain valve Assembly (UL/FM approved)	17	Nos.					
17.15	Hooter & Light - to be Connected to Fire Pump Controller - To be Installed/ Provided outside the Pump Room	1	Nos.					
17.16	Pressure Relief Valve Ø 2 1/2 inch complete in all respects	1	Job					
Total								
Grand Total								-

Bill of Quantities for Fire Protection System Civil Works for Statelife Building # 11, Karachi		
BOQ Summary		
Item No.	Description	Total Amount (Rs.)
	CIVIL & ALLIED WORKS TO FIRE FIGHTING SYSTEM	
1	DEMOLITION, CUTTING & DISMANTLING	
2	PIPE PENETRATION & REPAIR	
3	FALSE CEILING RESTORATION	
4	FIRE PUMP ROOM MODIFICATION	
5	PUMP FOUNDATIONS	
6	MISCELLANEOUS Of Civil Works	
	Total Amount in Rupees (Rs.)	
	__% SST (Rs.)	
	Grand Total Amount in Rupees including SST (Rs.)	

NOTE: The above quoted rates should be inclusive of all relevant applicable taxes, profit, levies and transportation charges e.t.c

Total Amount in Words: _____

Signature and Seal of Tenderer: _____

CIVIL WORKS ALLIED TO FIRE FIGHTING SYSTEM					
Sr.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
A. DEMOLITION, CUTTING & DISMANTLING					
1	providing and performing Core Cutting through RCC Slabs (100–350 mm dia.)	No.	90		
2	providing and performing Core Cutting through RCC Walls/Shear Walls	No.	45		
3	providing and performing Core Cutting through Brick/Concrete Block Walls	No.	90		
4	providing and performing Wall Chasing for Concealed Fire Fighting Pipes	Rft	2000		
5	providing and performing Removal of Existing Gypsum Board False Ceiling	Sft	24000		
6	providing and performing Removal of Existing Ceiling Suspension Framework	Sft	24000		
7	providing and performing Removal of Existing Access Panels	No.	80		
8	providing and performing Removal of Existing Floor Screed	Sft	1200		
9	providing and performing Removal of Existing Floor Tiles	Sft	1000		
10	providing tools and performing Debris Removal & Disposal	LS	1		
				Total	
B. PIPE PENETRATION & REPAIR					
11	providing and fixing GI Pipe Sleeves	No.	275		
12	providing and Repair RCC Openings	No.	275		
13	providing and Repair Masonry Openings	No.	250		
14	providing and applying Epoxy Bonding Agent	Ltr	120		

15	providing and applying Polymer Modified Repair Mortar	Bag	80		
16	providing and applying Fire Rated Sealant	No.	275		
17	providing and applying Fire Rated Mortar Packing	No.	275		
18	providing and performing UL/FM Fire Stopping	No.	275		
Total					
C. FALSE CEILING RESTORATION					
19	providing and installing Moisture Resistant Gypsum Ceiling	Sft	24000		
20	providing and installing GI Framework	Sft	24000		
21	providing and installing Joint Treatment	Sft	24000		
22	providing and installing Access Panel	No.	80		
23	providing and installing Ceiling Paint	Sft	24000		
24	providing and installing Matching Existing Finish	LS	1		
Total					
D. FIRE PUMP ROOM MODIFICATION					
25	providing and installing 8" Concrete Block Masonry	Cft	480		
26	providing and installing 20mm Cement Plaster Both Sides	Sft	1440		
27	providing and performing Plastic Emulsion Paint	Sft	1440		
28	providing and performing Heavy Duty Floor Repair	Sft	625		
29	providing and performing Waterproof Cement Screed	Sft	625		
30	providing and installing 2-Hour Fire Rated Double Leaf Door	No.	1		
31	providing and installing 2-Hour Fire Rated Single Leaf Door	No.	1		

32	providing and installing Porcelain Tiles for Fire Pump Room	Sft	625		
Total					
E. PUMP FOUNDATIONS					
33	providing and constructing Main Fire Pump Foundation	No.	1		
34	providing and constructing Diesel Pump Foundation	No.	1		
35	providing and constructing Jockey Pump Foundation	No.	1		
36	providing and constructing Housekeeping Pads	No.	3		
37	providing and applying Non-shrink Grouting	Bag	30		
38	providing and constructing Anchor Bolt Grouting	Bag	30		
Total					
G. MISCELLANEOUS					
39	Providing and performing Cleaning & Disposal	LS	1		
Grand Total Amount (Rs.)					