

**LIST OF APPROVED
MANUFACTURER / SUPPLIERS**

FIRE FIGHTING & PLUMBING SYSTEM		
S.NO	ITEM	APPROVED MAKE
1	Fire Pumps (UL Listed / FM Approved)	1. Naffco 2. Sffeco Approved Equal
2	Transfer Pumps	1. KSB 2. Wilo Approved Equal
3	M.S Pipe	1. Haffaz 2. Econosto Approved Equal
4	Extinguishers	1. Naffco 2. SRI Approved Equal
5	Fire Hose Cabinets	
6	Breeching inlet	1. Naffco 2. Sffeco Approved Equal
7	Electric Cables & Wires	1. Pakistan Cables Approved Equal
8	Valve fitting	1. Gala 2. Hattersley Approved Equal
9	M.C.C	1. Karimi Electric 2. Sunbeam Approved Equal
10	UPVC Pipe	1. Dadex 2. Hepworth Approved Equal
11	Concrete Fasteners & anchors	1. Hilti 2. Sikla Approved Equal
12	Paints	1. ICI (Pakistan) 2. Berger (Pakistan)

13	W.C	1. Porta Approved equal
14	Wash Basin	
15	CP Tee Valve	
16	Muslim Shower	1. Master Approved equal
17	C.P. Bottle Trap	
18	PPR PN20 Pipe	1. Dadex 2. Hepworth 3. Approved Equal

All material shall be of class 1 quality, purchased from approved authorized dealer, sole importers & good shops.

PART -4

BILL OF QUANTITIES

AL-HAMD INTERNATIONAL (AICT) LTD
B.O.Q OF FIRE FIGHTING & PLUMBING SYSTEM FOR AL HAMD INTERNATIONAL KARACHI.

S. No.	DESCRIPTION	QTY	UNIT RATE (RS)		AMOUNT(RS)	
			COST OF SUPPLY	COST OF INSTALLATION	COST OF SUPPLY	COST OF INSTALLATION
1	2	3	4	5	6	7
PART-A FIRE FIGHTING SYSTEM						
1	Supply, installation, testing & commissioning of Fire Pump Skid Mounted Package set complete with Electric, Diesel & Jockey pump including Bacnet Control panel, fuel tank all special fitting, Painting and hangers complete in all respects as per drawing & specifications. (500GPM & 10BAR)	1 Set				
2	Supply & Installed of Fire Hose Cabinets including automatic 25mm diameter Hose Reel, Nozzle, 25mm Lock Shield Valve, 25mm Pressure Reducing Valve Complete in all respects as shown on drawings & specification.	6 Nos.				
3	Supply, installation, testing & commissioning of 4-way Fire Department Connection including all accessories complete in all respects as shown on Drawings / Specifications.	1 No.				
4	Supply, installation, of OS & Y Gate valve Including all accessories complete in all respects as shown on Drawings / Specifications.	Nos.				
i.	Dia 2 1/2"	6				
ii.	Check Valve Dia 6"	1				
5	Supply, installation and commission of seamless M.S ASTM grade B, schedule 40 Fire piping including all special fitting, Painting and hangers complete in all respects show on drawing & specifications.	Rft.				
i.	Dia 6"	20				
ii.	Dia 4"	450				
iii.	Dia 2 1/2"	150				
6	Motor Control Center-1 (M.C.C. 20 KW, 40 AMP TPN with 2 earthing points) for Fire Pump	1				
					TOTAL COST	
					8	

S. No.	DESCRIPTION	QTY	UNIT RATE (RS)		AMOUNT (RS)	
			COST OF SUPPLY	COST OF INSTALLATION	COST OF SUPPLY	COST OF INSTALLATION
7	Supply & Installation of Wall Mounted Fire Extinguisher with hangers as per drawing and specification.	Nos.				
i.	6 Kg Dry Powder Extinguisher	14				
ii.	6 Kg CO2 Fire Extinguisher	14				
TOTAL COST PART - A (RS)						
PART-B PLUMBING SYSTEM						
1	Supply and installation of O.H. Transfer pumps complete with accessories as per drawings and specifications. (50gpm, 70ft Head)	2				
2	Supply and installation of Submersible pumps complete with accessories as per drawings and specifications. (5gpm, 20ft Head)	2				
3	Supply and installation of Water closets European style with close coupled cistern, cistern fittings, acrylic seat cover complete with all respect	20				
4	Supply & Installation of counter top Wash Basin with Waste, Bottle Trap & Tee Stop-Cocks complete with all respect.	15				
5	Supply & Installation of Wash Basin Single Lever Mixer complete with all respect	15				
6	Supply & Installation of S.S Sink Single Lever Mixer complete with all respect	5				
7	Supply & Installation of Towel Dispenser (SS body) complete with all respect	15				
8	Supply & Installation of WC Hand Operated Shower With Angle Valve complete with all respect	20				
9	Supply & Installation of Sanitizer -Automatic.	15				
10	Supply & Installation of SS Sink, Waste, Bottle Trap and Tee-Stop Cocks complete with all respect.	5				
11	Supply & Installation of Toilet Roll Holder.	20				
12	Supply & Installation of Soap Dispenser.	20				

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			COST OF SUPPLY	COST OF INSTALLATION	COST OF SUPPLY	COST OF INSTALLATION
13	Supply & Installation of Hand Dryer.	10				
14	Supply & Installation of S.Steel Robe hooks.	20				
15	Supply and installation of C.P Tee valves, for cistern water inlet CP connectors with nuts and fittings.	55				
16	WATER DISTRIBUTION SYSTEM					
a.	Supply and installation of PPR PN 20 piping for cold & Hot water system , with fittings, specialties, including all cutting, fitting, fixing and cleaning, wall and slab sleeves/Core Cutting, CP clamps, hangers and supports, making connection with fixtures, valves and specialties, chiseling, making wall an floor openings and making good, pressure testing at a pressure of 250 psig, painting of exposed piping in occupied areas with primer and coats of approved paint in approved color complete in all respect.	Rft.				
i.	3" diameter	80				
ii.	2" diameter	80				
iii.	1 1/2" diameter	20				
iv.	1 1/4" diameter	40				
v.	1" diameter	40				
vi.	3/4" diameter	375				
b.	Gate Valve	Nos.				
i.	3" diameter	3				
ii.	2" diameter	4				
iii.	1 1/2" diameter	5				
c.	Y-Strainers	Nos.				

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			COST OF SUPPLY	COST OF INSTALLATION	COST OF SUPPLY	COST OF INSTALLATION	TOTAL COST
i.	2" diameter	2					
d	Float Valve	No.					
i.	2" diameter	1					
e.	Foot Valve	No.					
i.	2" diameter	1					
17	SOIL, WASTE AND VENT SYSTEM						
a.	Supply and installation of UPVC Class D piping including all fittings, sockets, hangers and specials for soil, waste & vent stacks and horizontal runs buried in ground or above false ceiling, in shafts exposed or concealed in floors and walls and connecting to manholes, including cutting, fitting, chiseling, wall and slab sleeves/Core Cutting, making good, fixing and cleaning, wall and slab openings complete in all respect	Rft					
i.	6" diameter	20					
ii.	4" diameter	170					
iii.	3" diameter	160					
iv.	2" diameter	215					
v.	1 1/2" diameter	135					
18	Supply & installation of Vent cowl complete with all respect as per drawing & specification.	3					

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			COST OF SUPPLY	COST OF INSTALLATION	COST OF SUPPLY	COST OF INSTALLATION	TOTAL COST
19	Supply and installation of Floor Drain with Trap complete in all respect.	Nos.					
a.	2" dia (Balcony Drain)	8					
b.	3" dia	35					
c.	4" dia (ROOF DRAIN)	2					
20	Supply and installation of Clean Out complete in all respect.	Nos.					
i.	3" dia	6					
ii.	4" dia	6					
21	Supply & installation of M.H. complete with all respect as per drawing & specification.	2					
22	Supply & installation of Floor Gully with Trap complete with all respect as per drawing & specification.	2					
23	Stainless Steel Grease Trap for Kitchen Installed Below Sink on Floor (Size = 12" L x 18" W x 18" H)	5 Nos.					
24	Excavation and back filling for the sewerage and plumbing pipes as per drawings and specifications.	1 Lot					
SUB-TOTAL-B (PLUMBING SYSTEM)							
PART-C NATURAL GAS SUPPLY SYSTEM							
1	Supply & Installation of M.S Piping Schedule- 40 for Natural Gas System complete with Specialties, wall and slab sleeves/Core Cutting, fitting & hanger supports etc. as per specification and drawings.	70					
i	3/4" diameter	65					

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			COST OF SUPPLY	COST OF INSTALLATION	COST OF SUPPLY	COST OF INSTALLATION
b.	Gas Cock/Plug Valves	Nos.				
i	3/4" diameter	5				
SUB. TOTAL-C (NATURAL GAS SYSTEM)						
PART-D GENERAL ITEMS						
1	Equipment foundation, lifting & shifting charges from Ground floor to foundation pads as per specification and drawings.	1 Job.				
2	Stencilling, Painting & Finishing as per specification.	1 Job.				
3	M&P Services Shop drawings & As Built Drawings Color Copies. (Minimum scale 1-1/8")	4 Sets				
4	Hard Copy and Soft Copy in Autocad format in CD					
4	Fire Stoping of Walls & Structure Openings (For Small Openings - Hilti FS - ONE or Approved Equivalent)	1 Job.				
5	Cost of testing, Starting up, commissioning, balancing, adjusting and handling over of the complete Plant.	1 Job.				
SUB. TOTAL-D (GENERAL ITEM)						
SUB TOTAL PART A, B, C & D (RS.)						

NOTES

- The Contractor shall be responsible for the supply, procurement and delivery of all the material and shifting of the equipment to their respective location, installation, testing, commissioning of the systems in all respects.
- The quoted cost should include all overheads, profits, income tax and all other Taxes which are applicable, import duty (if any), insurance, packing, unpacking, transportation charges etc.
- The work at site shall be executed in accordance with the approved shop drawings which will be prepared by the Contractor.
- The work at site shall be executed in accordance with the approved shop drawings which will be prepared by the Contractor within 1 week after award of works and Manufacturers drawings, Contract Specifications etc.
- The work shall be awarded on item Rate cost basis.
- The complete system complete replacement warranty should be minimum 2years.
- The contractor will provide Equipment Operation & Maintenance Manuals (2 sets Hard copy & Soft Copy.)
- The contractor will provide Operation & Maintenance Instructions to Clients Representatives
- The Owner reserves the right to delete any item before award of works. The cost of such items shall be reduced.

Abbreviation used in the BOQ are as follows:

- Sq. Ft. Square Feet, (b) R. Feet. Running Feet, (c) Ton. Ton weight, (d) TR. Ton of refrigeration, (e) No. Number, (f) Lot. Complete package/lump sum.