

Fire Fighting System								
				Description of Item	Unit	Qty	Total Rate	Amount
	A.1.0			Water Tank and Pressure Pump for fire fighting System				
		a	Pump	Supplying, Installation, Testing and Commissioning of Electric Driven Terrace Pump suitable for auto operation and consisting of following: complete in all respect as required.	set			0
				Horizontal type, centrifugal end suction type pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 900 lpm at 40Mtr head conforming to IS:1520.				
				Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts \pm 10%, 3 phase 50 Hz. AC with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, confirming to IS:325.				
				M.S. fabricated Common base frame, flexible coupling, coupling guard, foundation bolts and pressure gauge with butterfly valve etc. Suitable cement concrete foundation duly plastered with anti vibration pads.etc. complete as per manufacturer's design & standards and as per detailed specifications.(including all civil works)				
				The pump shall include suitable weather proof electrical panel with all type of cables,tray,mcbs etc which ever is required.Take approval of panel design from consultant/client before installation.				
				Pump electrical panel automation and integration as per site requirement				
	A.2.0			(PIPING AND ACCESSORIES)				
		a		SLFTC of MS pipes on surface				
				Supplying, laying, fixing, testing and commissioning of following sizes (NB) of ISI marked heavy class M.S. pipes including cutting, threading, welding etc. and providing all fittings e.g. elbows, reducers, clamps, hangers, flanges, gaskets, nuts, bolts and washers etc. including painting of pipes and fittings with red paint over a coat of ready mixed primer, both of approved quality and shade including cutting holes and chases in brick or RCC walls/slabs and making good the same etc. complete in all respect as required.				
		a.1		150mm dia.	Meter			0
		a.2		100mm dia.	Meter			0
		a.3		80mm dia.	Meter			0
		a.4		65mm dia.	Meter			0
		a.5		50mm dia.	Meter			0
		a.6		40mm dia.	Meter			0
		a.7		32mm dia.	Meter			0
		a.8		25mm dia.	Meter			0
		b		SITC of butterfly valves				
				Supplying, Installation, Testing and Commissioning of butterfly valves of PN 1.6 rating of following sizes with nitrile seat and stainless steel stem with lever/gear operation and cast iron body in powder coated finish for fire fighting application complete in all respects as required.				
		b.1		100mm dia	Each			0
		b.2		65mm dia	Each			0
		b.3		80 mm	Each			0
		b.4		50 mm	Each			0
		c		SITC of cast iron flanged Non return valves				
				Supplying, Installation, Testing and Commissioning of cast iron flanged Non return valves of PN 1.6 rating of following sizes conforming to relevant IS specifications and providing and fixing nuts, bolts, washers, gaskets etc. complete as required.				
		c.1		100mm dia.	Each			0
		c.2		80 mm dia	Each			0
		c.3		65mm dia.	Each			0
		d		SITC of Brass Ball Valves				
				Supply, installation, testing and commissioning of forged brass ball valves with brass body nickel coated, brass ball, hard chrome plated, suitable for fire fighting complete in all respects.				
		d.1		50mm dia.	Each			0
		e		SITC of Cast iron flanged Y Strainer				
				Supplying, Installation, Testing and Commissioning of CI body flanged (both ends) type Y strainer with (stainless steel / brass mesh) conforming to relevant IS specifications amended upto date complete including providing and fixing nuts, bolts, washers, gaskets etc. complete as required.				
		e.1		100 mm dia.	Each			0
		f		SITC of Pressure Switches				
				Supplying, Installation, Testing and Commissioning of pressure switches suitable for operating with fire hydrant systems for working pressure of 14.0 Kg/cm ² including electrical control wiring with suitable copper conductor PVC insulated and sheathed control cable upto control panel, connections etc. complete as required.	Each			0

		g	SITC of Pressure gauge				
			Supply, installation, testing & commissioning of 100 mm dia Bourden type, Stainless Steel dial type pressure gauge including brass isolation valve and pipe having calibration of 0-16 Kg/cm2.	Each			0
		h	SITC of SS orifice plate				
			Supplying, Installation, Testing and Commissioning of Stainless steel orifice plates having 6 mm nominal thickness, upto 200mm outer dia. and internal dia. suitable to reduce pressure to between 3.2 to 3.5 Kg/sq.mm., complete as required.	Each			0
		i	Vibration Bellow				
		i.1	Supply, Installation, Testing and Commissioning 100% synthetic flax canvas Non-percolating FIRE hose (Type B), I.S.I marked 63mm diax15m long with stainless steel male & female couplings (ISI marked) bound & riveted to hose pipes with copper rivets and copper wire as required.	Each			
		i.2	Supply, installation, testing and commissioning of single headed gun metal ISI marked oblique pattern landing valve Type 'A' with 80mm dia. flanged inlet & 63mm dia instantaneous type female outlet complete with A.B.S. plastic cap and chain, twist release type lug and all accessories complete as required.	Each			
	A.3.0		(HYDRANT AND HOSES)				
			SITC Fire hose				
		a	Supply, Installation, Testing and Commissioning 100% synthetic flax canvas Non-percolating FIRE hose (Type B), I.S.I marked 63mm diax15m long with stainless steel male & female couplings (ISI marked) bound & riveted to hose pipes with copper rivets and copper wire as required.	Each			0
			SITC Short branch pipe				
		b	Supply, Installation, Testing and Commissioning gun metal 63mm dia. Short Branch Pipe (ISI marked) with 20mm dia nozzle as required.	Each			0
			Branch Pipe SS GUNMETAL.	Each			0
			SITC Landing Valve				
		c	Supply, installation, testing and commissioning of single headed gun metal ISI marked oblique pattern landing valve Type 'A' with 80mm dia. flanged inlet & 63mm dia instantaneous type female outlet complete with A.B.S. plastic cap and chain, twist release type lug and all accessories complete as required.	Each			0
			SITC First-Aid-fire Hose reel				
		d	Supply, installation, testing and commissioning of First-Aid-fire Hose reel wall mounting swinging type complete with drum, bracket, 20mm dia. 30M long high pressure hose reel tubing with gunmetal shutoff nozzle conforming to IS: 8090 - 1976. The hose reel shall be as per IS:884-1985.	Each			0
			SITC of Fire Man's Axe				
		e	Supplying, Installation, Testing and Commissioning of standard Fire Man's axe with heavy insulated rubber conforming to IS : 926.	Nos.			0
			SITC (supply Installation testing and commissioning)of 15mm dia. Quartzoid bulb type sprinkler				
		f	Supplying, Installation, Testing and Commissioning of 15mm dia. Quartzoid bulb type sprinkler with temperature rating at 68°/79°C made out of forged brass and in powder coated finish.				
		f.1	Pendent/Upright 68° C Chrome Plated	Each			0
		f.2	Pendent 141° C Chrome Plated	Each			0
			SITC weather proof M.S cabinet size 900 mm x 2100 mm x 600mm				
		g	Supplying, installation, testing and commissioning of weather proof M.S cabinet size 900 mm x 2100 mm x 600mm deep fabricated from 1.6mm thick M.S. sheets and M.S angle 40mmx40mmx6mm complete with glass, locking arrangements.	Each			0
			S/F of Vane type Water flow Switch				
		h	Supplying and fixing vane type water flow switch suitable for installation on 50 mm to 150 mm dia line for a service pressure upto 20 kg/sq. cm. of Potter / System sensor /Angus	Each			0
		i	Providing and fixing flexible connectors consisting of flexible core 1.5 mtr. in length of corrugated stainless steel tubing under the braid, (Braiding to be SS-304, tubing to be SS-304) for minimum working pressure rating of 200 PSI to be installed at connections from branch pipes to pendant sprinklers blow false ceiling as per specification of the manufacturers.	Each			0
		j	Hydrant Box	Each			0
		k	Hydrant Valve	Each			0
		l	Hydrant 2 way	Each			0
Grand Total							#REF!