

STEEL AND INDUSTRIAL FORGINGS LTD. ATHANI,THRISSUR

BOQ FOR FIRE PROTECTION SYSTEM SUPPLY & INSTALLATION - DOWNCOMER IN HEAT TREATMENT PLANT

NAME OF CONTRACTOR:

MOBILE NO:

<u>Sl. No.</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
FIRE HYDRANT SYSTEM					
1	TERRACE PUMP Supply, installation, testing and commissioning of Electric Driven terrace pump for automatic pressurization of down comer system in cases of leakages consisting of the following: a) Horizontal, end suction, monoblock type Centrifugal fire pump CI impeller, running at minimum 2900 RPM capable of delivering 450 LPM b) Squirrel cage TEFC induction motor suitable for 415V, 3 phase, 50Hz AC supply of suitable HP conforming to IP-55 protection & class 'F' insulation. c) The rate shall include base plate common to pump and motors, foundation bolts, Coupling, coupling guards and standard mounting Accessories	Nos	1		
2	PUMP CONTROL PANEL Supply,erection, testing and commissioning of Automatic Motor Control Panel for the electric driven terrace pump, with DOL Starters, switch gear and contactors shall be rated for motor HP. The panel shall include necessary indicating lamps for the RYB phases, ammeters and volt meter with selector switch. etc. The panel shall have Auto/Manual Selector Switch. The panel shall be powder red in colour and shall have provision for wall mounting with all accessories as required complete. The cabling between the pump and the panel shall be provided by others.	Nos	1		
3	PRESSURE GAUGE Supplying, installing ,testing and commissioning of Pressure gauges located at fire pump delivery header with 0 to 100PSI, Dial should be 150 mm dia.	Nos	1		
4	PRESSURE SWITCH Supplying, installing ,testing and commissioning of Pressure switches of suitable range for pump sets with all standard accessories.	Nos	1		
5	Above Ground Piping Supplying, Installing, Testing & Commissioning of MS 'B' class medium pipe as per is medium grade of following dia, with necessary fittings such as nuts & bolts, bends, flanges ,etc and Welded joints, The pipe shall be painted with two coats red colour enamel paint over primary coat of Primer.				
a	100 mm dia	Mtrs	120		
b	80 mm dia	Mtrs	1		
6	Underground Piping Supplying, Installing, Testing & Commissioning of underground piping M S pipe Class 'B' medium grade ISI mark complete with all necessary fittings such as nuts & bolts, bends, flanges, tees etc . and piping shall have anti corrosive wrapping coat 4mm thickness(as per line item 7,8,9..)				
a	100 mm dia	Mtrs	15		
7	Excavation in 1 mtr depth	Mtrs	15		
8	Sand Bed(Refilling with sand)	Mtrs	15		
9	Concrete block every 3 mtrs	Nos	5		

10	Butterfly Valve				
	Supplying, Installing, Testing & Commissioning of butterfly valve wafer type Stainless steel/SG iron disc , lever operated as per IS:13095 in PN 1.0 , teflon or nylon bushing, nitrile O rings in standard mounting flanges with hand lever type.				
a	100 mm dia	Nos	2		
11	Non Return Valve				
	Supplying, Installing, Testing & Commissioning of Non Return Valve single plate wafer type slim seal check valve, short pattern type with integral hinge pin disc , nitrile rubber O - ring seat and face sealing as per IS: 5312 .				
a	100 mm dia	Nos	1		
12	Ball Valve				
	Supplying, Installing, Testing & Commissioning of Ball Valve as per IS 5312.				
a	20 mm dia	Nos	2		
13	Hydrant Valve				
	Supplying, Installing, Testing & Commissioning of Hydrant valve 63 mm dia oblique type with SS body & working parts, with instantaneous hose coupling adaptor and PVC blank cap & chain.	Nos	2		
14	Branch Pipe				
	Supplying, Installing, Testing & Commissioning of branch pipe made out of SS 63 mm short male instant. Inlet male threaded outlet, fitting with 15 mm bore nozzle ISI.	Nos	2		
15	Fire Hose				
	Supplying, Installing, Testing & Commissioning of Fire Fighting Hose , all synthetic fiber circular woven jacketed,control percolated delivery hose , 38kg/cm2 burst pressure, 22kg/cm2 proof pressure, 14 kg/cm2 working pressure, bearing IS:636-88 type B , in 15 mtrs length, 63 mm dia, duly bounded with SS coupling 63 mm dia pair of male & female parts, instantaneous type .	Nos	2		
16	Hose Reel Drum				
	Supplying, Installing, Testing & Commissioning of Hose reel drum made of Mild Steel, with mounting brackets 19 mm dia nylon braded smooth surface rubber thermo plast hose 30 mtrs length with shut off nozzle	Nos	2		
17	Hose Box				
	Supplying, Installing, Testing & Commissioning of Hose Box (Fire Hose cabinet) to accommodate one piece of 63 mm dia fire hose along with one piece of 63 mm dia male & female couplings and one branch pipe. The cabinet is made of M.S. powder coated with glass fronted hinged doors and lock.	Nos	2		
18	Air Release Valve				
	Supplying, Installing, Testing & Commissioning of Air release valve gun metal body as per IS:778 of				
a	20 mm dia .	Nos	2		
16	Fire Brigade Connection(FBC)				
	Supplying, Installing, Testing & Commissioning of 2 way Fire brigade Inlet connection fabricated from 100 mm dia MS Class B medium grade pipe comprising of two 63 mm dia gun metal male threaded non return valve.	Nos	1		

17	M.S Structural support				
	Supply,Installation,Testing and Commissioning of M.S structural support including, cutting welding with nut, bolt & Anchor fastners etc....	Kg	20		
	SUMMARY OF FIRE HYDRANT SYSTEM SUB TOTAL				-
18	Fire Extinguisher				
a	Supply &Installation of Fire Extinguisher ABC type fire extinguisher ISI mark ,4 kg capacity with initial charger and installation brackets.	Nos.	6		
	SUMMARY OF FIRE EXTINGUISHER TOTAL				
	FIRE ALARM SYSTEM				
19	SITC of Fire Alarm Control Panel 2 Zone , conventional type micro processor based control panel made of MS powder coated CRCA sheet with audio and visual display & supplied with all standard mounting accessories.	Nos.	1		
20	Manual Call Point				
	Supplying, Installing, Testing & Commissioning of Manual Call Point break glass type powder coated MS box ,24/12 Volt DC operated, and with necessary attachments.	Nos.	2		
21	Hooter				
	Supplying, Installing, Testing & Commissioning of Audio alarm hooter (sounder) powder coated MS box, 24/12 Volt DC operated with necessary attachments.	Nos.	2		
22	Fire Alarm Cabling				
	Supplying, Installing, Testing & Commissioning of Fire Alarm Cabling - PVC insulated fire retardant copper flexible wire 1 sq.mm with ISI mark.	Mts	250		
23	PVC Conduit				
	Supplying, Installing, Testing & Commissioning of 20 mm dia medium grade rigid PVC conduit ISI mark with elbow, tees, jn: boxes, saddle clip and with necessary fittings.	Mts	150		
24	Concealing work				
a	Labour charge for Concealing of PVC Conduit	Mts	R.O		
b	Labour charge for Concealing of MCP & Hooter	Nos	R.O		
	SUMMARY OF FIRE ALARM SYSTEM SUB TOTAL				
	SIGNAGES				
25	1 x 6W, 240 V, 1 ph, 50 Hz indoor type emergency exit light fixture with 1.3 AH 4hrs battery backup unit, LED Lamps, indicating Fire Exit, recess mounted type. 24 hrs x 7 days working conditional. (Upsy power supply to be provided near to the device)	Nos	R.O		
26	Supply, installation of in position the signages of "Fire boards approved by Kerala state fire service made out of PVC rigid sheet 3mm thick with computer cut luminescent self adhesive imported vinyl painted on the front of PVC rigid sheet complete with wall mounting arrangements with screws". with lettering "ASSEMBLY AREA"	Nos.	1		
27	Supplying and installing of in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut, luminescent self adhesive vinyl painted foam board, complete with mirror fasteners.				
a	FIRE DUCT	Nos.	2		
b	EXIT	Nos.	2		
c	FIRE EXIT	Nos.	2		
d	NO SMOKING	Nos.	2		
e	EVACUATION PLAN	Nos.	2		
	SIGNAGES SUB TOTAL				
28	STATUATORY APPROVAL				
	Preparation of drawings/ schemes/ documents and getting final approval/ sanction/ NOC from statutory departments viz. Fire Force Department, Tvm etc. as per rules and regulations (statutory fees if any will be borne by the owner).	LS	1		
	SUMMARY OF STATUATORY APPROVAL				

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PLANT****SUMMARY****FIRE FIGHTING INSTALLATIONS**

SL NO	DESCRIPTION		AMOUNT
A	FIRE HYDRANT SYSTEM	:	-
B	FIRE EXTINGUISHERS	:	-
C	FIRE ALARM SYSTEM	:	-
D	FIRE SIGNAGES	:	-
E	STATUATORY APPROVAL	:	-
		:	-
	TOTAL	:	-
		:	-
		:	-
	GST	:	-
	GRAND TOTAL	:	-