

**BOQ for Fire Hydrant & Downcomer System at Currency Chest Branches located in  
Chhattisgarh state of Bhopal Circle**

S.No	Item Description	Unit	Quantity	Rate per unit (Rs.)	Total Amount
1	SITC of <b>Fire Bridage Inlet</b> (2 way) with 63 mm dia intstaneous inlet complete with all necessary fittings and MS enclosure with glass dooe made of 18/16 SWG sheet. (MAKE – NEW AGE/ GEI /AAAG or other equivalent ISI Mark)	Nos	1		
2	SITC of <b>sluice valve</b> ( 100 mm) complete with Fittings, Flanges, Nutbolts, Washers, Gaskets etc (MAKE – NEW AGE/ GEI /AAAG /other equivalent ISI Mark)	Nos	1		
3	SITC of Cast iron body <b>Non-Return valves (NRV)</b> dual plate with matching flanges, rubber insertion, nuts, bolts and washer etc. (IS:5312) of following sizes complete as reqd. (Make:Sant /Kartar/New Age/Audco/other equivalent ISI Mark)				
a	100 mm dia	Nos	2		
b	80 mm dia	Nos	2		
c	65 mm dia	Nos	1		
4	Supply, fixing, testing commissioning of <b>butterfly valve</b> PN 1.6, with Bronze/ Gunmetal seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, conforming to IS 13095, of following sizes as required. (MAKE – NEW AGE/ SWATI/Lifeguard /other equivalent ISI Mark)				
a	100 mm dia	Nos	2		
b	80 mm dia	Nos	2		
c	65 mm dia	Nos	1		
d	32 mm dia	Nos	1		
5	Providing, fixing, testing and commissioning of Above Ground <b>M.S. ERW Black C Class Heavy duty pipes as per IS: 1239</b> including cutting, screwing, welding etc. and providing all fittings like flanges, bends, tees, elbows, reducers, clamps, hangers etc. with painting of one coat of primer and 2 or more coats of synthetic enamel paint of approved make / shade complete as per specification (MAKE TATA/ JINDAL/ Nezone/other equivalent ISI Mark)				
a	100 mm dia	RMT	50		
b	80 mm dia	RMT	20		
c	32 mm dia	RMT	10		
d	25 mm dia	RMT	10		
6	Providing, fixing, testing and commissioning of Under Ground (including rapping, coating, digging & rehabilitation of digging surface etc.) <b>M.S. ERW Black C Class Heavy duty pipes as per IS: 1239</b> including cutting, screwing, welding etc. and providing all fittings like flanges, bends, tees, elbows, reducers, clamps, hangers etc. with painting of one coat of primer and 2 or more coats of synthetic enamel paint of approved make / shade complete as per specification (MAKE TATA/ JINDAL/ Nezone/other equivalent ISI Mark)				
a	100 mm dia	RMT	20		

b	80 mm dia	RMT	10		
7	SITC of <b>Fire Aid Hose Reel Drum</b> with 30mtrs ong rubber hose and GM shut off nozzle 25 mm dia Gate Valve, Union pipe complete set confirming to IS: 884 (MAKE – NEW AGE/ AAAG/ SWATI /Lifeguard / other equivalent ISI Mark)	Nos	3		
8	Providing, fixing, testing & Commissioning of Single headed Stainless Steel ISI Marker Oblique pattern <b>Hydrant Landing valve</b> with 80 mm dia, flanged inlet & 63 mm dia instantaneous type female outlet complete with cap and chain twist release lug and all accessories as per IS : 5290-1983 (Type -'A') and specifications complete as required. (MAKE – NEW AGE/SWATI/ Lifeguard/Shah Bhogilal/ Ghosh Engg/ New Age/ Safex or other ISI Mark)	Nos	2		
9	Providing & Fixing of weather proof <b>hose cabinets</b> fabricated from 16 S.W.G M.S Sheet with Centre opening full front glass door and locking arrangement suitable to accommodate 2nos 15M Long hoses and 1 no. Branch Pipe with nozzle. The cabinet shall be painted with one coat of primer and 2 or more coats of synthetic enamel paint of approved make & shade and shall be suitably mounted on a raised masonry platform complete as reqd.(Make - Self Fabricated) 750 X 600X 250 MM	Nos	2		
10	Providing <b>RRL Hose</b> with ISI Marked (IS:636) 63 mm dia X15 M long complete with instantaneous type Stainless Steel 63 mm dia ISI Marked male & female couplings (IS: 903) bound & riveted to hose pipes with SS rivets and SS wire complete as required. (MAKE: Shah bhogilal/Newage/Lifeguard/BRG or equivalent ISI Mark)	Nos	4		
11	Providing & Fixing of Stainless Steel 63 mm dia <b>Short Branch Pipe 20 mm dia nozzle</b> , ISI marked (IS: 903) complete as required.(MAKE– Shah Bhogilal/ Ghosh Engg/ New Age/Lifegaurd/ SWATI/TULSI/ or other equivalent ISI Mark)	Nos	2		
12	Supply & fixing of 100mm dia bourden type, Stainless steel dial type <b>pressure gauge(0 - 16 Kg ) range, 3 / 8 " BSP bottom entry on Pump Delivery Line complete with Ball valve (Wikai/ Waree/ baumar /Guru/other equivalent ISI Mark)</b>	Nos	2		
13	Supply & fixing of <b>Pressure switches</b> for automatic operation of pumps, including necessary wiring upto control panel and Ball valve. (Make Potter/Indfos or other equivalent ISI Mark)	Nos	1		
14	Supply & fixing of <b>Ball Valve</b> (80 mm), Stainless steel with necessary fittings (MAKE –NEW AGE/kartar/ Lifeguard or other/ Audco or equivalent ISI Mark)	Nos	2		

15	<p>Supply, Installation, Testing &amp; Commissioning of <b>Electric Driven Terrace pump</b> for Hydrant applications suitable for automatic operation and consisting of following details given as A, B, C, D, E, F, G. (Make- KIRLOSKAR / Mather &amp; platt /ABB/Siemens/other equivalent ISI Mark)</p> <p>A. Horizontal Single stage Centrifugal End suction, back pull type pump complete for delivery of below mentioned discharge, with necessary accessories the suction side ( all items to be matching with the suction side dia of the pump) including bypass arrangement for Testing of pump</p> <p>B. Material of construction : Pump Casing - Cast Iron, Impellor - Bronze, Shaft - SS 410, Packing - Mechanical Seal</p> <p>C. Pump shall be capable of furnishing not less than 150 % of rated capacity at a head not less than 65 % of the rated head. The shut off head shall not exceed 120 % of rated head</p> <p>D. Squirrel cage induction motor suitable for 3 phase, 415 V, 50 HZ, Ac supply T.E.F.C confirming to IP:55 , of required HP suitable for the above pump ,along with flexible coupling , coupling guard complete in all respect</p> <p>E. Common bed plate fabricated from mild steel channel for installation of pump and Motor</p> <p>F. Pump technical sheet which confirming required specifications issued by manufacturer to be submitted.</p> <p>G. Suitable cement concreat foundation duly plastered with anti vibration pads.</p>				
a	950 LPM (7.5 HP) suitable for 35 Mtr Head, single stage	Nos	1		
b	450 LPM (5.0 HP) suitable for 24 Mtr Head, single stage	Nos	1		
16	SITC of Starter Panel, Fabricated for capable of Operation of 450 / 900 LPM Terrace Pump or capable of start up to 10 HP pump and having provision for automatic starting by pressure switches, control mounting shall include necessary lamps indications, ammeters for motor full load circuit with CTs and selector switch, auto/manual selector switch voltmeter with selector switch controlling push button etc. The panel shall be duly painted with protective anticorrosive and shall be foot mounted/wall mounted type including all accessories. (Make- L&T/ ABB/ Siemens/other equivalent ISI Mark)	Nos	1		
17	SITC of 4C X 16sq mm, Copper PVC Shielded Cable suitable to run 7.5 HP/ 5.0 HP pump on maximum load (Fire Panel to Terrace PUMP) (Make- Polycab/ Finolex/ RR Kable/ KEI/other equivalent ISI Mark)	RMT	100		
18	Supplying, fixing and placing plastic cylindrical vertical closed top three layers (PVC) tank at the terrace over the staging with manhole cover with locking and cleaning arrangement including arrangements of overflow (Flot valve e.t.c), water filling from existing arrangements available at branch and also providing <b>CI Base Plate/ RCC BASE</b> of suitable size as required to hold the weight of tank on the terrace, and others connection etc. if required. (Make: Sintex / Polycon or equivalent ISI mark)				
a	5000 ltr	Nos	2		
b	2000 ltr	Nos	1		
b	1000 ltr	Nos	1		

19	Providing and fixing gunmetal of single acting air release valve with screwed inlet 25 mm dia. (Make: Zoloto/ Karter/ Kitz/ other equivalent ISI Mark)	Nos	1		
20	Providing, Fixing, Testing & Commissioning of G.M Stop / Ball Valve of 25 mm dia ISI Marked screwed type tested to 30Kg/cm2 pressure as per IS:778-1984 of following sizes complete as reqd. (Make: Zoloto/ Karter/ Kitz/ other equivalent ISI Mark)	Nos	1		
21	SITC of Sprinkler Head (Pendant Type,1.5 mm dia quartz bulb type sprinkler with 68 <sup>0</sup> /79 <sup>0</sup> C made out of forced brass and powder coated finish) with all fittings accessories ( <b>Make: Tyco/HD/ equivalent ISI Mark</b> )	Nos	1		
<b>Total cost excluding GST</b>					