

CANARABANK

PREMISES AND ESTATE SECTION,
CIRCLE OFFICE, CHENNAI
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TENDER DOCUMENT FINANCIAL BID

FOR THE PROPOSED

FIRE HYDRANT, SPRINKLER, GAS TYPE FIRE
SUPPRESSION SYSTEMS, FIRE PUMP ROOM AND
ASSOCIATED CIVIL WORKS AT CIRCLE OFFICE BUILDING,
TEYNAMPET, CHENNAI

NOTICE INVITING THE TENDER, GENERAL RULES & INSTRUCTIONS GENERAL
CONDITIONS, SPECIAL CONDITIONS, OFFER LETTER, APPENDICES, SCHEDULE OF
QUANTITIES.



FINANCIAL BID - FIRE HYDRANT SYSTEM AT CIRCLE OFFICE

CANARA BANK CIRCLE OFFICE, ANNA SALAI, CHENNAI - 18

Design, Supply, Installation, Testing and Commissioning of Fire Hydrant & Sprinkler Systems

BUDGETARY BILL OF QUANTITY

S. No.	Description	Quantity		Make	Unit rate		Total rate	
					Supply	Erection	Supply	Erection
1	FIRE PUMP ROOM EQPT. FOR FIRE FIGHTING SYSTEMS							
1)	Supply, Installation, Testing and Commissioning of Electrically driven Jockey pump set. Couples end Suction Fire Pump set with 10 / 12.5 HP Motor TEFC type, 2900 RPM 420 V, 50 cycles, 3 phase, class 'F' insulation, IP 55 protection, starting on DOL. The Pump shall be with Cast Iron casing, Bronze impeller, steel shaft capable of discharging 10.8 Cu.m/Hr (180 LPM) at 88M head. complete with base frame & foundation bolts / Anti Vibration Pads.	1	Set					
2)	Removing, Servicing, Re-Installation, Testing and Commissioning of Electrically driven Main fire pump set. Couples end Suction Fire Pump set with 60 HP Motor TEFC type, 2900 rpm, 420V, 50 cycle frequency 3 phase class 'F' insulation, I.P. 55 protection, starting on Star Delta. The Pump shall be horizontal, end suction, top discharge. The pump shall have cast iron casing, bronze impeller, steel shaft with common base frame capable of discharging 137.0 Cu.m/hr (2280 LPM) at 70m Head. complete with base frame & foundation bolts / Anti Vibration Pads.	1	Set					



3)	<p>Supply, Installation, Testing and Commissioning of Diesel engine driven Standby Fire pump set. The engine should have RPM between 1500 to 2300. The Pump shall be horizontal end suction, top discharge mounted on common baseframe. Pump shall be directly coupled to diesel engine of suitable HP as per system design condition. Engine shall be complete with flywheel, spider coupling, Air cleaners, Water cooled, Radiator cooled, Corrosion Resistor, Oil Sump with lube at pump. Governor, Fuel Filter, starting motor battery charging alternator & instrument panel suitable for 12-volt DC including starting switches, lube oil temperature gauge, lube oil pressure & high water temperature including flexible exhaust connection. The pump shall be capable to delivery 137.0 Cu.m/hr (2280 LPM) at 88m Head. Following additional requirements shall be considered in the cost. 1) RPM of the Diesel pump to be 1500 to 2300. 2) High speed sensing to be provided and incorporated in control panel. 3) 130Ah, 12V Battery with Battery cable and stand with lock facility 4) RPM / Hour meter to be installed in separate stand to avoid failure due to vibration, not to be fixed in Engine itself. base frame & foundation bolts / Anti vibration Pads.</p>	1	Set					
4)	<p>Supply, Installation, Testing and Commissioning of Motor control center for Electric Motor Driven pump sets complete with incomer, DOL starter, Star/Delta Starter, bus bar, protective fuses indicating lamps with interlock facility with bottom / Top entry with foot mounting type complete with all accessories.</p>	1	Sets					



5)	Supply, Installation, Testing and Commissioning of Diesel Engine Control Panel for Engine Driven pump set complete with Battery Charger Unit, Pressure switch interlock, protective fuses indicating lamps with interlock facility with bottom / Top entry with foot mounting type complete with all accessories.	1	Sets					
6)	Power cabling and control cabling including Cable tray and Earthing from MCC/ panel to pumps with all accessories.	1	Lot					
7)	Instrumentation for automatic operation of All Pump Sets including Pressure switch (1 No) and pressure gauge (1 No) with siphon & cock arrangements with necessary isolation valves	3	Sets					
8)	Pressure gauge (1 No) with siphon & cock arrangements with necessary isolation valves	2	Sets					
9)	Supply and Installation of Cast iron body Butterfly valve of PN 16 pressure rating complete with matching flanges with bolts & nuts etc. (Lever operated)							
a)	150 NB	2	Nos					
b)	50 NB	5	No					
10)	Supply and Installation of Cast iron body Non-Return valves of PN 16 rating complete with matching flanges of following sizes with Bolts & Nuts etc. (Ball Type / Swing type)							
a)	150 NB	2	Nos					
b)	50 NB	4	No					
11)	Supply and Installation of Cast iron body Ball Type Foot Valve with G.I. matching flanges of following sizes with G.I Bolts & Nuts (for Suction Side)							
a)	150 NB	2	Nos					
b)	80 NB	1	Nos					
12)	Supply and Installation of Threaded End Forged SS / Cast Iron / Gunmetal Ball Valves for							



	Isolation Purposes							
a)	25 NB	5	Nos					
13)	Supply and Installation of Gun Metal Single ball acting air release valve with Isolation Ball valve.							
a)	25 NB	1	Set					
14)	Supply, Installation, testing and Commissioning of Pressure Release Valve arrangement with Solinoid Valve, Pressure switch and etc.	1	Set					
15)	Air cushion tank/ pressure vessel of 1.2m x 200/250mm dia with all necessary Connections, Valves & accessories	1	Set					
16)	200 Ltrs. Capacity M.S. Diesle tank fabricated with all necessary accessories like Inlet, Drain out, Vent, Level Indicator, Valves/Strainers etc and with adequates diesel for testing	1	Set					
17)	500 Ltrs. Capacity M.S. Priming Water tank fabricated with all necessary accessories like Inlet, Drain out, Level Indicator, Valves/Strainers etc.	1	Set					
18)	G.I. Pipes for Suction Side confirming to IS 1239 Pt - I Heavy grade Class C with painting of the pipes with desired shade of two or more coats enamel paint over a coat of primer, anchor fasteners, bolts nuts, clamps, "U" bolte, Heavy Grade C Class M.S fittings such as Reducers, Tees, elbows, flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per site requirements.							
a)	150 NB	12	m					
b)	80 NB	6	m					
19)	G.I Pipes for Delivery Side confirming to IS 1239 Pt - I Heavy Grade Class C with painting of the pipes with desired shade of two or more coats enamel paint over a coat							



	of primer, anchor fasteners, bolts nuts, clamps, "U" bolt, Heavy Grade C Class M.S fittings such as Reducers, Tees, elbows, flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per site requirements.							
a)	200 NB	6	m					
b)	150 NB	6	m					
c)	50 NB	18	m					
d)	25 NB	12	m					
TOTAL								
II	EXTERNAL FIRE HYDRANT, WET RISER & HOSE REEL SYSTEM							
1)	G.I Pipes conforming to IS 1239 Pt - I Heavy grade Class C with painting of the pipes with desired shade of two or more coats enamel paint over a coat of primer, anchor fasteners, bolts nuts, clamps, "U" bolt, Heavy Grade C Class M.S fittings such as Reducers, Tees, elbows, flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per site requirements.							
a)	150 NB	144	m					
b)	100 NB	96	m					
c)	80 NB	12	m					
2)	Supply and Installation of Cast iron body Butterfly valve of PN 16 pressure rating complete with matching flanges with bolts & nuts etc. (Gear operated)							
a)	150 NB	3	Nos					
b)	100 NB	1	Nos					
c)	80 NB	0	Nos					
3)	Supply and Fixing MS Hose Cabinet to accommodate 02 nos, 7.5 mtrs length hose and a short branch pipe / Multipurpose Nozzle, glass fronted with hanging type clamp	10	Nos					
4)	Supply and Fixing MS/FRP Hose box to accommodate 02 nos, 15 mtrs length hose and a short	4	Nos					



	branch pipe / Multipurpose Nozzle, glass fronted with hanging type clamp						
5)	Supply & fixing of First Aid Hose Reel units with 20 mm dia high pressure braided rubber hoses 30.mtr.long with 19 mm dia shut-off Jet Spray nozzle to IS:903 & Hose reel to IS:884, complete with wall mounting brackets, having 360 degree rotating & 160 degree swinging action with Isolation Ball/Gate Valve.	11	Nos				
6)	Stainless Steel Fire Hydrant valve with 75 mm inlet and 63 mm female instantaneous single outlet completes with Pvc cap & chain as per IS:5290, Type-A	14	Nos.				
7)	RRL Hoses of 63 mm dia, 7.5 Mtrs, long as per IS:636 with S.S coupling bearing with ISI mark	20	Nos.				
8)	RRL Hoses of 63 mm dia, 15 Mtrs, long as per IS:636 with S.S coupling bearing with ISI mark	8	Nos.				
9)	Stainless steel branch pipes 63 mm dia male instantaneous inlet and male threaded outlet complete with hexagonal base bore nozzles as per ISI	14	Nos.				
10)	4 - Way Fire Brigade Inlet with C.I. Non return Valve and Isolation C.I Lever Operated Butterfly Valve for Complete System Emergency Inlet from Fire Department near Entry/Exit Gate	1	Set				
11)	Supply and Fixing Gun metal single ball acting air release valve with Isolation Ball valve.						
a)	25 NB	1	Nos				
12)	Anti-corrosive treatment for underground pipes with Tar Primer and Wrapping coating of IWL tapes 4 mm thick						
a)	150 NB	15	m				
b)	100/80 NB	6	m				
13)	Interconnection of Wet Risers to Overhead tank with C.I. Non Return Valve and Isolation	1	Set				



	Butterfly Valve Lever operated at Terrace level							
14)	Structural Support materials for pipes supports including painting with one coat of primer and 2 coats of approved enamel color paint.	1	Ton					
TOTAL								
S. No.	Description	Quantity	Make	Unit rate		Unit rate		
				Erection	Supply	Erection	Supply	
III	SPRINKLER SYSTEM FOR BASEMENT FLOOR & SPRINKLER RISER							
1)	G.I Pipes confirming to IS 1239 Pt - I Heavy grade Class C with painting of the pipes with desired shade of two or more coats enamel paint over a coat of primer, anchor fasteners, bolts nuts, clamps, "U" bolt, Heavy Grade C Class M.S fittings such as Reducers, Tees, elbows, flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per site requirements.							
a)	150 NB	48	m					
b)	100 NB	42	m					
c)	80 NB	6	m					
d)	50 NB	72	m					
e)	40 NB	30	m					
f)	32 NB	30	m					
g)	25 NB	66	m					
2)	Supply, Installation, Testing & Commissioning of 150NB Sprinkler Alarm Valve with Isolation Butterfly Valve & all necessary Trim Set and Alarm Gong at Ground floor	1	Set					
3)	Supply, Installation, Testing & Commissioning of 100nb Zone Control Valve assembly with Gear operated Butterfly Valve, Pressure Gauge, Test/Drain Ball Valve & Flow switch for future connection.	10	Set					



4)	Supply & Installation of Upright Sprinklers with Std. Response, Std. Coverage K-80, 1/2" Threaded Inlet and 68 Deg. C	70	Nos					
5)	Supply & Installation of Test Sprinklers at Outside for Testing with ball Valve	1	Nos					
6)	Supply and Fixing Gun metal single ball acting air release valve with Isolation Ball valve.							
a)	25 NB	1	Nos					
7)	Supply & Installation of Crossman Flush / Drain Ball Valve arrangements with 25NB	1	Nos					
8)	Structural Support materials for pipes support including painting with one coat of primer and 2 coats of approved enamel color paint.	1	Lot					
TOTAL								
S. No.	Description	Quantity	Make	Unit rate		Unit rate		
				Erection	Supply	Erection	Supply	
IV	PORTABLE FIRE EXTINGUISHERS							
1)	4.5 Kg CO2 Fire Extinguishers	24	m					
2)	6.0 Kg ABC Powder Fire Extinguishers	24	m					
3)	50 Ltrs Foam Trolley Fire extinguishers	1	m					
4)	20 Kgs CO2 Trolley Type Fire extinguishers	3	m					
TOTAL								
V	FIRE RATED EMERGENCY EXIT DOORS & PHOTO LUMINESCENT SIGNAGES							
1)	2 Hrs Fire rated Emergency Exit Doors with Panic Push Bar	11	Sets					
2)	Photo luminescent EXIT & EMERGENCY EXIT SIGNS (Approx 4 nos per Floor)	11	Sets					
3)	Extinguishers Panoramic Photo Luminescent Signage	15	Nos					
4)	Evacuation Plan with Acrylic sheet sandwich	11	Sets					



TOTAL							
VI	FIRE PUMP ROOM & OTHER CIVIL WORKS						
1)	Fire Pump Room Construction with Brick wall & RCC Roofing, MS Steel Gates as required, tiles outside, Fire Pump Foundations, Suction Hole and Finishing and all related activities inside pump room	1	Lot				
2)	Removal of Existing Riser, Riser entry opening for all Floors, Packing/Closing, External Supports Grouting, Roof Overhead Tank connection supports and Misc. civil works	1	Lot				
3)	Road Crossing at 1 Mtr depth excavation and Refilling with Quarry dust/Fine sand for pipe covering removal of soil and all associated works	20	Mtrs				
4)	Any Miscellaneous Civil works required during Fire Hydrant system execution	1	Lot				
TOTAL							
S. No.	Description	Quantity	Make	Unit rate		Unit rate	
				Erection	Supply	Erection	Supply
VII	NOVEC CLEAN AGENT GAS FIRE SUPPRESSION SYSTEM @ ELECTRICAL ROOM (Approx 200 Cu.m)						
1)	NOVEC Gas Fire Suppression System with all required Master/Slave Cylinders, Discharge Hoses, Piping's, Signs, Detection & release system, Cabling and all required equipment's and accessories without standby	1	Lot				
2)	Any Miscellaneous Civil works, Hardware's & Accessories	1	Lot				
TOTAL							
SUMMARY							



I	FIRE PUMP ROOM EQPTS. FOR FIRE FIGHTING SYSTEMS		
II	EXTERNAL FIRE HYDRANT, WET RISER & HOSE REEL SYSTEM		
III	SPRINKLER SYSTEM FOR BASEMENT FLOOR & SPRINKLER RISER		
IV	PORTABLE FIRE EXTINGUISHERS		
V	FIRE RATED EMERGENCY EXIT DOORS & PHOTO LUMINESCENT SIGNAGES		
VI	FIRE PUMP ROOM & OTHER CIVIL WORKS		
VII	NOVEC GAS FIRE SUPPRESSION SYSTEM @ ELECTRICAL ROOM (Approx 200 Cu.m)		
TOTAL (INR)			
GRAND TOTAL (INR)			
AMOUNT IN WORDS			



Note:

1. The rates quoted shall be **exclusive of GST**. The quantities mentioned are approximate. Final bill will be settled based on actual measurement only.
2. Bank reserves the right to alter / modify the scope of work any time during the course of execution of work.
3. **Earnest Money Deposit:** Rs.2,00,000/- should be drawn by Demand draft favoring, Premises & Estate Section, Circle Office, Canara Bank payable at Chennai. Bids submitted without EMD and Processing fee will be rejected.
4. **Processing fee:** Rs.1,000/- should be drawn by demand draft favouring Premises and Estate section, circle office, Canara Bank, Payable at Chennai.
5. The work has to be strictly completed within 75 days in all aspect.
6. 8% of the total bill Amount will be retained as retention money for a period of 12 months from the date of settlement of bill, during which period any defect shall be rectified at free of cost.
7. The supplier should take care of the warranty of any fixtures during warranty period and get it replaced them, if it required.
8. The materials that are used and other accessories should be of the specified make and quality.
9. Any additional type of work and quantity of work over and above the bill of quantity should be got approved before carrying out such works.

The quotation should be addressed to:

**THE DIVISIONAL MANAGER
CANARA BANK
PREMISES & ESTATE SECTION-CIRCLE OFFICE
524,ANNA SALAI,
TEYNAMPET,
CHENNAI-600018.**

