

### Scope of work

- (a) The scope of work of each type of equipments/systems shall be carried out monthly/ bi-annual maintenance or actuation test as listed hereunder:
  - (i) Weekly visual check each equipment like extinguisher gas content and cleaning of nozzle, tube etc. Also visual check of hose, clamp, horn, valve & safety clip.
  - (ii) For each type of equipment a separate register shall be maintained with separate page allotted for particular number.
  - (iii) After each maintenance /testing, the test details or maintenance work shall be entered in the given register.

### Note:

1. The offer does not include repair/replacement of defective equipments, during maintenance of the existing fire fighting systems.

### FIRE DETECTION AND ALARM

- (a) Monthly visual check detector- (external check only)
- (b) Six monthly cleaning of smoke/heat detectors (removal of dirt if any)
- (c) Quarterly actuation of smoke detector by turn- at least one detector in each floor to be subjected to test. Monthly actuation of test of heat detector.
- (d) Circuit Test/Panel Test for fault and fire condition every month for fault test and every quarter for every quarter for fire condition.
- (e) Quarterly test of Manual call box by turn.
- (f) Manual test of Public Addresses System.
- (g) Manual (actual) test of Public Address System-Every month.
- (h) Visual check with cleaning of smoke switch every month at least one third.

### HYDRANT & WET RISER SYSTEM

- (a) Weekly visual test/check of External or Internal Hydrant Valve, outlets washer etc. by turn, per week.
- (b) Monthly test of Hose Reel, Hydrant Control Valve, outlets with actual discharge test with water.
- (c) Monthly visual check of fire hose, including coupling/washer etc.
- (d) Quarterly discharge test from at least one external hydrant and one internal hydrant by attaching single length of fire hose with nozzle. To check automatic starting of pump with hydrant operation.

## AUTOMATIC START

At monthly check to test automatic start of jockey pump at pre-set pressure and auto stop of jockey pump at pre-set pressure; Auto start of Main pump at pre-set pressure jockey pump to stop automatically when main pump starts. Main pump stopping will be manual.

Takeover by stand by pump to be automatic – by cutting off main pump control for all these tests at least 3 persons will be required.

## FIRE BRIGADE INLETS

To check physically, about the non-return valve fitted, this should not be too-stiff, and yet should allow water to go in when pushed from outside under pressure.

The above are general check-lists and test requirements etc. The contractors shall be bound for undertaking any other check test which is considered necessary for efficient functioning of equipment/system, whether included in above schedule or not. He shall not claim any extra charge for such work, which must be included in the overall contractual fees. However, replacement of worn out/defective material shall be issued free of cost by the department or shall be paid extra at market rate to the contractor.

## FIRE EXTINGUISHERS:

- (a) Monthly visual check with nozzle and snifter valve cleaning etc.
- (b) Quarterly check including cleaning and servicing.

## WATER CO2 EXTINGUISHERS

- (a) Monthly visual check with cartridge of CO2 check and cleaning of nozzle.
- (b) Quarterly check of CO2 content.

## CO2 EXTINGUISHERS

- (a) Monthly check of CO2 content and cleaning of nozzle/tube etc. Also Visual check of hose, clamp, horn, valve & safety clip.
- (b) Quarterly checking of the same.
- (c) Half-yearly test with short blast discharge.

1. Routine servicing of diesel engine pump set shall be done by the agency.
2. The department will provide diesel oil and lubricant oil for diesel engine.
3. All cleaning material like old dhoti, duster, soap, cotton waste will be supplied by the agency as required.

## LIST OF EQUIPMENTS

1. Electric Motor Driven Fire Pump 60 HP, Capable of delivering 2850 litres/minute.
2. Diesel Engine Driven Fire Pump 90 BHP Capable of delivering 2850 litres/minute.
3. Jockey Pump 15 HP Capable of delivering 180 litres/minute.
4. Main Control Fire Panel for Pumps & Diesel Engine.
5. Sluice Valves.
6. Non return Valves.
7. Single Headed Hydrants Gun Metal Valves
8. C.P. Fire Hose Pipes
9. Hose Reel drums
10. Weather proof standard hose cabinets
11. Exit Glow Sign board wall mounting signages
12. 3 Way fire brigade inlet
13. Gun Metal Gate Valves
14. Drawl of connection
15. Side wall type sprinklers
16. Pendent type sprinklers
17. Gong Bell
18. Fire Detection Systems- Nization Type Smoke Detectors, Heat Detectors, Manual Call Point, Response Indicator, Local control panel, Electric hooter cum speaker.
19. Fire Extinguishers- Water gas pressure type, CO2 type, Dry Powder type, Mechanical foam type.
20. Fire smoke wooden doors.
21. Luminous Inverter.