

## **FIRE FIGHTING AND FIRE PROTECTION SYSTEM**

### **Basic/ Concept of Design**

The fire fighting arrangement shall be designed as per the requirement of local guidelines, engineering design standard.

The entire fire safety installation shall be compliant with the applicable codes / standard for the Complex to ensure the safety standard & uniformity of system. Further, before property is opened to public, the fire protection shall be fully operated and tested undersimulated conditions to demonstrate compliance with the standards, codes & guidelines.

Following functional system shall be provided, strictly in compliance with the listed reference standards:

- a. Piping System : Piping system confirming to IS: 1239.
- b. Fire Water Static Storage: Fire water static storage has been provided in accordance to NBC requirement. Each of towers shall also be provided with terrace fire water storage tank.
- c. Hydrant system : Internal & External stand pipe fire hydrant system shall be provided with landing valve , hose reel
- d. Sprinkler system : Elaborate Automatic sprinkler system shall be provided throughout the basement and other areas of the complex . The system shall be suitably zoned for its optimum functional performance.

The sprinkler system shall be provided with control valves, flow and tamper switches at suitable location and shall be connected to control module of the fire alarm system for its monitoring and annunciation in case of activation.

Wet pipe sprinkler shall be provided for all habitable spaces such as residence and club house.

- e. Hand held fire : Portable fire extinguishers of water (gas pressure), Carbon-dioxide  
Extinguishers and foam type shall be provided as first aid fire extinguishing  
appliances. These extinguishers shall be suitably distributed in the  
entire public as well as service areas.

Further, for rooms containing electrical transformers, switchgears,  
motors and of electrical apparatus, minimum 2 Nos. dry powder or  
carbon dioxide type/sand buckets extinguishers shall be additionally  
provided within 15 m of the apparatus.

- f. Fire : General fire detection & alarm system including emergency public  
Detection & address & communication system shall be provided.  
Alarm system