

NOTES RELATED TO FIRE SAFETY

1. HYDRANT SYSTEM
(A) HYDRANT LOCATED NEAR THE HOSE REEL HOSE OR HYDRANT OUTLET, AT EACH FLOOR FOR THE MAIN FIRE FIGHT UP UNDERGROUND WATER TANK WITH A CAPACITY TO DISCHARGE 900 LITERS PER MINUTE AT 2 BAR PRESSURE IS MANDATORY AT THE TERRACE LEVEL. SHOULD BE INSTALLED.
THE RISER FOR THE BUILDING EXCEEDING 10 METRE HEIGHT SHOULD NOT BE LESS THAN 100 MM. INTERNAL DIAMETER. THE RISER SHOULD BE CONNECTED TO THE BOTTOM OF THE TERNACE TANK WITH A STOP VALVE AND A R/W TO ACT AS A DOWN-COMER. ONE RISER IS REQUIRED FOR EVERY 1000 SQ. METERS FLOOR AREA AND THE BUILDING IS DIVIDED INTO TWO OR MORE PARTS THEN EACH PART SHOULD HAVE A SEPARATE RISER WITH ALL THE FITTINGS AT EACH FLOOR LEVEL.
(B) EACH FLOOR SHOULD HAVE ONE HYDRANT OUTLET WITH A COUPLER FOR ATTACHING A 50 MM DIA. HOSE. 25 MM. HOSE REEL HOSE WITH 5 MM. 3/4" ID NOZZLE AT EACH FLOOR LANDING. THE LENGTH OF THE HOSE SHOULD BE SUFFICIENT TO REACH THE FURTHEST CORNER OF THE FLOOR. HOSE SHOULD BE 15 METERS LONG 50 MM. DIA. HOSE AND 12.5 MM. HOSE NOZZLE AT ALTERNATE FLOORS. THE HOSE REEL HOSE SHOULD BE 10 M. BY THE RISER.
(C) FIRE SERVICE INLET SHOULD BE INSTALLED AT A POINT NEAR THE ENTRY TO THE PREMISES WHERE A FIRE SERVICE VEHICLE CAN APPROACH EASILY.
(D) A PERMANENT HYDRANT POINT COMPRISING OF 50 MM DIA. SIZE 2 NOS. OF HYDRANT VALVES SHOULD BE INSTALLED AT THE TERRACE LEVEL.
(E) OVERHEAD TANK RENEWING BYPASS CONNECTION SHOULD BE DONE AT THE TERRACE LEVEL.
(F) OVERHEAD TANK SHALL BE OF A CAPACITY OF NOT LESS THAN DOUBLE THE FLOOR UNDERGROUND TANK SHALL BE OF NOT LESS THAN 10000 LITERS.
(G) THE PRESSURE AND ALL LIFTS SHOULD HAVE A PROVISION TO SHUT DOWN AUTOMATICALLY IN CASE OF ELECTRICITY FAILURE. EACH LIFT SHOULD SHUT DOWN AT LEAST ONE LIFT AS A FIRE LIFT AND THE BUILDING IS DIVIDED INTO A MORE PARTS THEN EACH PART SHOULD HAVE A FIRE LIFT. LIFT WELL SHOULD HAVE DOWNERS TO SECURE THE LIFT WELL. SO CONNECTED THAT IT WILL AUTOMATICALLY OPERATE WHEN ALARM CALL POINT IS OPERATE. SO THAT IT PREVENTS THE LIFT WELL GETTING SMOKE LOGGED.
(H) FIRE ALARM
(I) FIRE ALARM CALL POINT TO BE INSTALLED AT EACH FLOOR WITH SOUNDERS CAPABLE OF BEING HEARD ALL THROUGHOUT THE BUILDING.
(J) FIRE EXTINGUISHERS
(K) ONE CARBON DIOXIDE (CO2) TYPE EXTINGUISHER OF 4.5 KG. WITH 10 MARK. AND ONE EXTINGUISHER OF 4 KG. DRY CHEMICAL POWDER (DCP) TYPE EXTINGUISHER WITH 10 MARK TO BE INSTALLED AT EACH FLOOR IN CASE OF COMMERCIAL BUILDING.
(L) ONE CARBON DIOXIDE (CO2) TYPE EXTINGUISHER OF 4.5 KG. WITH 10 MARK OR TWO CARBON DIOXIDE (CO2) TYPE EXTINGUISHER OF 2.5 KG. CAPACITY ON EACH FLOOR AND DRY CHEMICAL POWDER (DCP) TYPE EXTINGUISHER WITH 10 MARK TYPE EXTINGUISHER OR ALTERNATE FLOOR IN CASE OF RESIDENTIAL BUILDINGS.
(M) IF THE BUILDING IS DIVIDED INTO TWO OR MORE PARTS THEN EACH PART SHOULD HAVE THESE EXTINGUISHERS INSTALLED.
(N) STAIRCASE
(O) THE STAIRCASE HAS TO BE OPEN FROM AT LEAST ONE OF TWO SIDES BUT IF THE STAIRCASE IS IN THE CORNER CORNER OF THE BUILDING IT HAS TO BE OPEN FROM TWO SIDES FROM GETTING SMOKE LOGGED.
(P) RISER (CORNER CORNER) SHOULD BE LOCATED IN THE STAIRCASE OR CLOSE TO IT TO MAKE IT EASILY APPROACHABLE IN CASE OF FIRE FROM THE FLOOR BELOW OR ABOVE.
(Q) BASEMENT
(R) THE BASEMENT OF 300 SQ. METERS OR MORE SHOULD BE PROTECTED WITH AUTOMATIC SPRINKLER SYSTEM WITH AT LEAST ONE SPRINKLER HEAD FOR EACH CAR PARKING SPACE.
(S) ADDITIONALLY BE PROTECTED WITH A HYDRANT OUTLET AND TWO 25 MM. HOSE REEL HOSE WITH 5 MM. DIA. NOZZLES AT EACH BASEMENT LEVEL.
(T) LIGHTING ARRESTER
(U) A LIGHTING ARRESTER SHOULD ALSO BE INSTALLED AND BE PROPERLY EARTHED TO PREVENT DAMAGE TO THE BUILDING WITH THE LIGHTNING STRIKES.
(V) PHOTO LUMINESCENT AUTO GLOW SIGNAGES
(W) PHOTO LUMINESCENT AUTO GLOW SIGNAGES
(X) THE BUILDING SHOULD BE PROTECTED WITH PHOTO LUMINESCENT AUTO GLOW SIGNAGES OR PHOTO LUMINESCENT AUTO GLOW SIGNAGES. THEN ADEQUATE PHOTO LUMINESCENT (AUTO GLOW) SIGNAGES SHOULD BE DISPLAYED AT EACH FLOOR LANDING, ENTRY, EXIT AND ADJACENT TO ALL EXITS. THE SIGNAGE SHOULD INDICATE FIRE FIGHTING, FIRE SAFETY, FIRST AID AND OTHER SAFETY EQUIPMENT PRESENT AT THE RESPECTIVE FLOOR LANDING, ENTRY, EXIT AND ADJACENT TO ALL EXITS. THE SIGNAGE SHOULD BE OF THE FOLLOWING TYPE: (1) 1000 X 500 MM. (2) 500 X 1000 MM. (3) 1000 X 1000 MM. (4) 1000 X 1000 MM. (5) 1000 X 1000 MM. (6) 1000 X 1000 MM. (7) 1000 X 1000 MM. (8) 1000 X 1000 MM. (9) 1000 X 1000 MM. (10) 1000 X 1000 MM. (11) 1000 X 1000 MM. (12) 1000 X 1000 MM. (13) 1000 X 1000 MM. (14) 1000 X 1000 MM. (15) 1000 X 1000 MM. (16) 1000 X 1000 MM. (17) 1000 X 1000 MM. (18) 1000 X 1000 MM. (19) 1000 X 1000 MM. (20) 1000 X 1000 MM. (21) 1000 X 1000 MM. (22) 1000 X 1000 MM. (23) 1000 X 1000 MM. (24) 1000 X 1000 MM. (25) 1000 X 1000 MM. 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