

FIRE HYDRANT LEGEND		
SR.	SYMBOL	DISCRPTION
1		FIRE HYDRANT PIPE MAIN
2		SLUICE VALVE
3		NON RETURN VALVE
4		COURT YARD HYDRANT VALVE
5		LANDING HYDRANT VALVE
6		HOSE BOX
7		FIRST AID HOSE REEL
8		AIR RELEASE VALVE
9		TWO WAY SIAMESE CONNECTION
10		RISE OR DROP

1. HYDRANT SYSTEM:

ON/OFF switches located near the hose reel hose or hydrant outlet, at each floor the main FirePump at the underground water tank with a capacity to discharge 900 liters per minute at 3 bar. pressure as measured at the terrace level should be installed. The Riser for the buildings exceeding 18 meters and above 18 meters height should not be of less than 100 mm. internal diameter. The riser should be connected to the bottom of the terrace tank with a stop valve and a NRV to act as a Down - corner. One riser is required for every 1000sq. meters floor area and if the building is divided into, two or more parts then each part should have a separate riser with all the fittings at floor level. Each floor should have one hydrant outlet with a coupling for attaching a 63 mm.dia hose & 25 mm.bore Hose-reel hose with 8 mm. SS. Shut-off nozzle at each floor landing. The length of the hose reel hose should be enough to reach the farthest corner of the floor. Hose-box with 15 meters long 63mm. dia. hose and 12.5 mm. bore nozzle at alternate floors. The Hose-reel hose should be coupled to the Riser. Fire-service inlet should be installed at a point near the entry to the premises where a Fire service vehicle can approach easily. A permanent hydrant point comprising of 63 mm.dia size 2nos of hydrant valves should be installed at the terrace level. Overhead tank Refilling bypass connection should be done at the terrace level. The Overhead tank shall be of a capacity of not less than 20,000 liters. The Underground tank shall be of not less than 1,00,000 liters.

2. FIRE LIFT:

The Fire-Lift and all the lifts should have a provision to ground automatically in case of electricity failure. Each building should have at least one lift as a Fire-Lift and if the building is divided into two or more parts then each should have a Fire-Lift. Lift-well should have blowers to pressurize 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.

3. FIRE ALARM:

Fire alarm call point to be installed at each floor with sounders capable of being heard all throughout the building.

4. FIRE EXTINGUISHERS

One Carbon Dioxide (CO2) type extinguisher of 4.5 kg. with ISI mark. and one extinguisher of 5kg. Dry Chemical Powder (DCP) type extinguisher with ISI mark to be installed on each-floor in case of commercial building. One Carbon Dioxide (CO2) type extinguisher of 4.5 kg. with ISI mark. OR Two Carbon Dioxide (Co2) type extinguisher of 2 kg. with ISI mark capacity on alternate floors in case of residential building. If the building is divided into two or more parts then each part should have these extinguishers installed.

5. STAIRCASE:

The staircase has to be open from at least one or two sides but if the staircase is in the centre core of the buildings it has to be pressurized to prevent it from getting smoke logged. The Riser/Down-corner should be located in the staircase or close to in to make it easily approachable in case of Fire from the floor below or above.

6. LIGHTENING ARRESTER:

A lightning arrester should also be installed and be properly earthed to prevent damage to the building when the lightning strikes.

7. PHOTO LUMINESCENT (AUTO GLOW) SIGNAGE'S:

If the building falls in a confined area or if it has an enclosed staircase or is not well lit-up on the inside, then adequate photo luminescent (auto glow) signage's should be displayed at each floor / landing / pathway / dead-end along all exit routes leading to the ground level. The signage should indicate fire fighting, fire safety equipment present on the respective floor/landing/pathway/dead-end and along all exit routes leading to the ground level.

8. ELECTRIC POWER SUPPLY TO THE ENTIRE FIRE-SAFETY SYSTEM

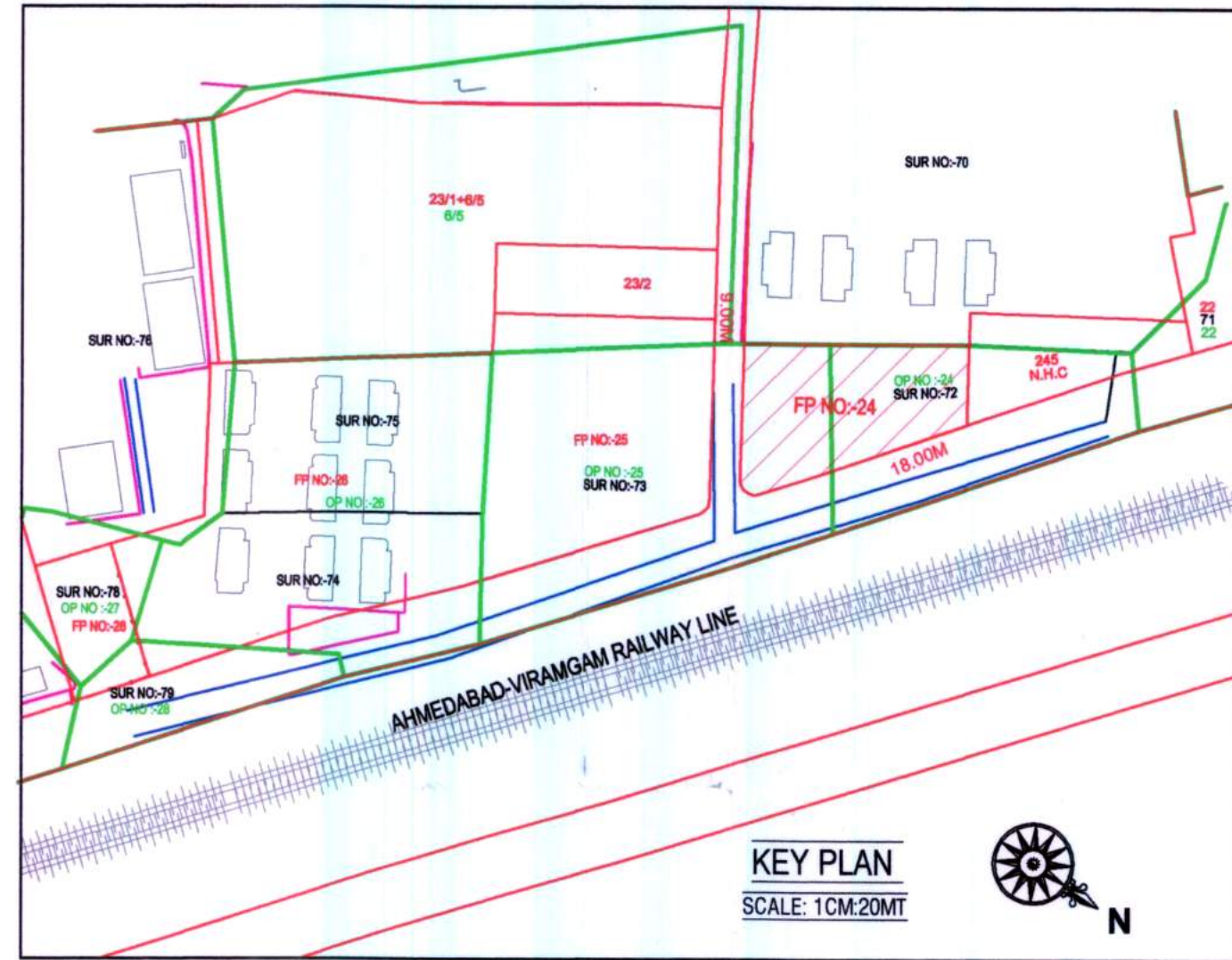
Electricity supply to the fire pump, fire alarm system, staircase pressurization system and fire lift should be made available from the main Electrical supply. (i.e. from Electrical power supply of the company) This is to ensure availability of power supply to the fire protection & Safety system even after the main electrical supply to the building is switched off at the time of fire.

9.INDIVIDUAL FIRE SAFETY SYSTEM

FIRE SEFTY SYSTEM SHOULD BE PROVIDED IN IDIVIDUAL SHOW ROOM BY OWNER

IMPORTANT INSTRUCTIONS:

After inspection of a low-rise building by the fire service authority,if the fire officer concerned feels th need for additional fire prevention/protection measures / ventilation system required or equipment (i.e. - Passive system / Suppression system / Fire door - Window / Detection system / Active system / Sprinkler / Drencher etc.) as per Fire load / Firerick / Public gathering. Potential / Occupancy / Confined area, those additional measures / equipment have to be implemented / installed.



COMMON PLOT AREA CALC.

1/2 x 26.61 x 4.50 = 59.87 SQ.MTS.

1/2 x 26.61 x 12.45 = 165.65 SQ.MTS.

TOTAL = 225.52 SQ.MTS.

less

1/3 x 4.50 x 4.50 x 2 = 13.50 SQ.MTS.

TOTAL = 212.02 SQ.MTS.

COMMON PLOT AREA

= 212.02 SQ.MTS.

CONTAINER BIN AREA CALC.

RESI : 1 UNIT 10 LIT. REQ. 1 CONTAINER

TOTAL UNIT 140 X 10 LIT. = 1400 LIT.

1400/80 = 17.5 = SAY = 18 NOS. CONT.

REQU. 18 NOS BIN OF 80 LIT CAP.

PROVI. 18 NOS BIN OF 80 LIT CAP.

COMM. USE :-

FL. AREA OF COMM. = 180.01

100 SQ. MTS. FL. AREA / 20 LTS.

180.01/5 SQ. MTS / 36.00 LTS.

36.00/80 = 0.45 SAY 1 NOS. BIN

REQU. 1 NOS BIN OF 80 LIT CAP.

PROVI. 1 NOS BIN OF 80 LIT CAP.

CERTIFICATE

Certified that the plot under reference was surveyed by me on and the dimension of sides etc. of plot state on plan are as measure on site and the area so worked out tallies with the area stated in document of ownership/T.P. record

Engineer signature

BUILT UP AREA TABLE		APPRO.	REVISE
		SQ. MTS.	SQ. MTS.
PROP. B. A. ON GR. FL.(S.P.)		128.81	180.01
PROP. B. A. ON GR. FL.(H.P.)		690.31	808.52
PROP. B. A. ON FIR. FL.		809.18	972.59
PROP. B. A. ON SEC. FL.		809.18	972.59
PROP. B. A. ON 3 RD. FL.		809.18	972.59
PROP. B. A. ON 4 TH. FL.		809.18	972.59
PROP. B. A. ON 5 TH. FL.		809.18	972.59
PROP. B. A. ON 6 TH. FL.		809.18	972.59
PROP. B. A. ON 7 TH. FL.		809.18	972.59
PROP. B. A. ON STAIR CABIN		158.74	180.58
PROP. B. A. ON W.TANK+M/C RM.		104.44	132.57
TOTAL BUILT UP AREA		6746.56	8109.81

F. S. I. TABLE		SQ. MTS.	SQ. MTS.
PROP. F. S. I. AREA ON GR. FL.		128.81	180.01
PROP. F. S. I. AREA ON FIR. FL.		678.18	839.86
PROP. F. S. I. AREA ON SEC. FL.		678.18	839.86
PROP. F. S. I. AREA ON 3 RD. FL.		678.18	839.86
PROP. F. S. I. AREA ON 4 TH. FL.		678.18	839.86
PROP. F. S. I. AREA ON 5 TH. FL.		678.18	839.86
PAY. F. S. I. AREA ON 5 TH. FL.		116.93	
PAY. F. S. I. AREA ON 6 TH. FL.		678.18	839.86
PAY. F. S. I. AREA ON 7 TH. FL.		678.18	839.86
TOTAL F.S.I. AREA		4876.07	6059.03

PAY. F.S.I. AREA TABLE		TOTAL	TOTAL
PERMI. PAY. F. S. I. @ 0.90% OF (2368.00)		2131.20	2131.20
PAY. F.S.I. USED (5976.33 - 4262.40)		613.49	1796.63

FLOOR AREA TABLE		USE	EQ. TENA.	FL. AREA IN SQ. MT
FLOOR		COMM. RESI.	APPRO. COMM. RESI.	REVISE COMM. RESI.
GR. FL.(S.P.+H.P.)	SHOP. PARK.	06	09	120.65 + 144.00 = 264.65
FIR. FL.	RESI.	17	20	678.18
SEC. FL.	RESI.	17	20	678.18
THI. FL.	RESI.	17	20	678.18
4TH. FL.	RESI.	17	20	678.18
5TH. FL.	RESI.	17	20	678.18
6TH. FL.	RESI.	17	20	678.18
7TH. FL.	RESI.	17	20	678.18
TOTAL	SHOP. RESI.	06 + 119	08 + 140	120.65 + 4747.26 = 4867.91

SECTION THROUGH WELL.	

SHEET NO :- 01

AFORDABLE HOUSING PROJECT
LAYOUT PLAN SHOWING PROP. COMM.+RESI.
AFORDEBLE BUILDING ON R. SUR NO : 72 , O. P. NO :- 24,
F.P. NO. :- 24 , T.P.S. NO :- 2 (GHUMA) AT GHUMA
TA :- DASKROI, DIST:-AHMEDABAD.

SCALE :- 1.00 CM = 2.00 MT.

ZONE : RESIDENCE-I (RESI. AFORDABLE HOUSING)

USE :- COMM.+RESI. (RESI. AFFORD. HOUSING)

AREA TABLE

PLOT AREA OF F.P. NO. 24 = 2368.00 SQ. MTS.

REQU. COMMON PLOT @ 8 % OF 2368.00=189.44 = 200.00 SQ. MTS. (MINIMUM)

PROVIDED COMMON PLOT AREA = 212.02 SQ. MTS.

F.S.I. AREA TABLE

PLOT AREA OF F.P. NO :- 24 = 2368.00 SQ. MTS.

PERMI. F.S.I. AREA (2368.00 X 1.80) = 4262.40 SQ. MTS.

PERMI. PAY. F.S.I. AREA (2368.00 X 0.90) = 2131.20 SQ. MTS.

TOTAL PERMI. F.S.I. AREA = 6393.60 SQ. MTS.

TOTAL UTILIZED F.S.I. AREA = 6059.03 SQ. MTS.

PAYMENT F.S.I. USED (6059.03 - 4262.40) = 1796.63 SQ. MTS.

BALANCE PAY. F.S.I. AREA = 334.57 SQ. MTS.

COLOUR NOTE :

COMMON PLOT (Green), ROAD (Red), F.P. BOUNDARY (Blue), COM.BIN. (Yellow), TREE (Green), P.W. (Blue).

ENGINEER NOTE

ENGINEER IS FULLY RESPONSIBLE FOR LEAVING MARGINAL, OPEN SPACE AND ROAD LINE PORTION

GENERAL NOTES

- 0.10 Ø MT C.I.P WITH VP SHALL BE PROVI FOR W.C & TOILET.
- 0.07 Ø MT C.I.P WITH VP SHALL BE PROVI FOR BATH & KITCHEN.
- ALL BALCONY & TERRACE PARAPAT WALL AREA 1.15 MT IN HT
- LIFT CAPACITY OF 8 PERSON.
- LIFT WALL SHALL BE 0.15 MT. TH. R.C.C. WALL.
- DISCHARGE OF RAIN WATER PIPE PROVI ON TERR LVL TO G.F
- ALL DIMENSIONS ARE IN METRE.
- ALL EXTERNAL WALLS ARE AS PER NBC & IS SPECIFICATION
- THE SIZE OF ALL R.C.C. COLUMNS ARE AS PER STRL. DETAILS.

R.C.C. STAIR DETAILS

WIDTH > 1.50 MT.
TREAD > 0.25 MT.
RISER > 0.17 MT.

OWNER

AMIT C. VORA

372, Vishusha Bunglows,

Ghuma, Ahmedabad-380058.

AUDA Reg.No. AUDA/DEV/00943

DEVELOPER

C.O.W.

ENGINEER

KETAV P. JOSHI

K/2, KENYUG APART, A'BAD,

AUDA S. D. LIC. NO. 1/202

STR. ENGINEER

APPROVED

As amended by Reg (Colour) Subject

to the condition as mentioned in this

office Letter PRN No. 526/11/2016

Date.....

Note Approved by Chairman

No 248

12 9 APR 2017

Assistant Town Planner

Ahmedabad Urban Development Authority

Senior Town Planner

Ahmedabad Urban Development Authority

Ahmedabad.

DISPATCH BY

Authorised Signatory

Signature

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