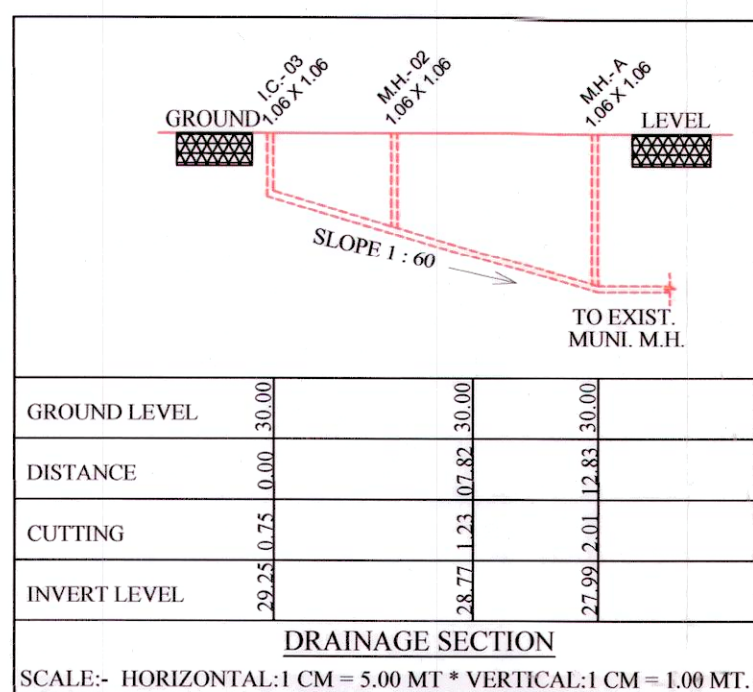
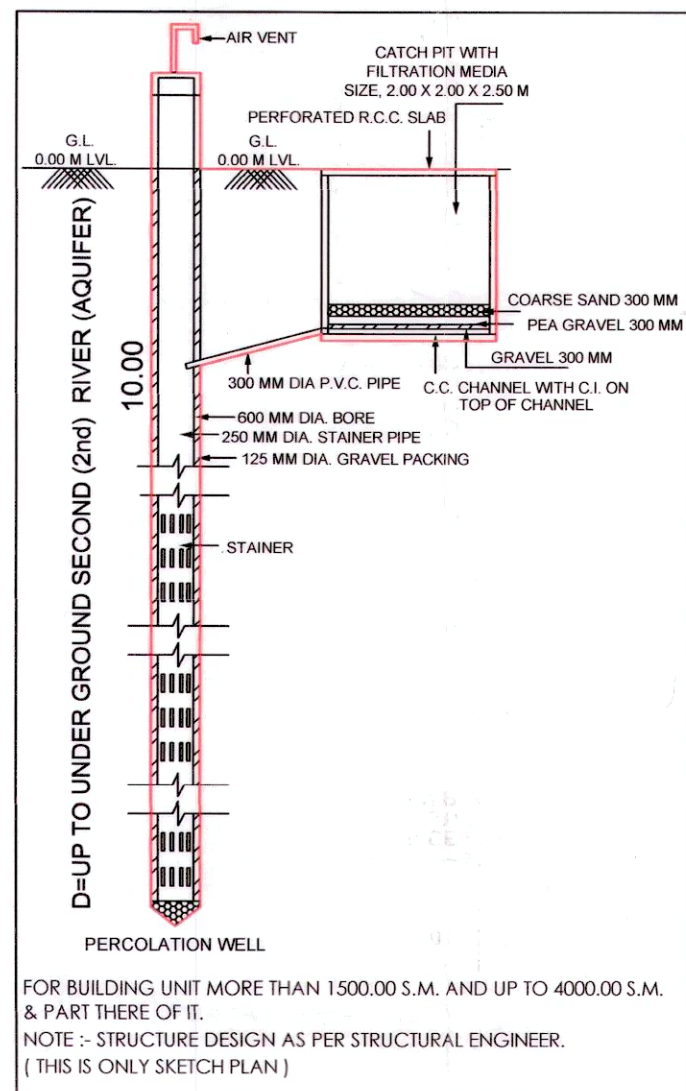




1. **Roof Top Solar Energy Installations and Generation :**
Space for Roof Top Solar Energy Installations and Generation system to be provided as per Cl. No. 17.5.1, table no. 17.3 of CGDCR - 2017 or as suggested by concern government authority/agency.
2. **Rain Water Harvesting System :**
Applicant shall have to make provision for Rain water harvesting system must be maintain regularly every year and rain water shall not be discharge to AMC storm water line.
3. **Rain Water Storage System :**
Applicant shall provide Rain Water Storage tank of adequate capacity as per Cl. No. 17.2.3 of GDCR - 2017.
4. **Tree Plantation :**
Applicant shall provide tree plantations conforming to Cl. No. 17.4 of CGDCR - 2017 and shall take proper care regularly & maintain the same number of trees permanently.
5. **Solid Waste Management :**
Applicant shall provide facilities for solid waste management with segregation of dry and wet waste at source regularly as per Cl. No. 17.2.3.1 of CGDCR - 2017 and disposal of solid waste shall be carried out as per the norms decided by the Competent Authority from time to time.



<u>REQ. PERCOLATING WELL:-</u> FOR PLOT AREA:- 1500 TO 4000 SQ. MTS. REQ. - 1 PERCOLATING WELL PLOT AREA = 1745.14 / 4000.00 SQ. MTS. = 0.44 NO. REQ. SAY 1 NOS. PROVI. 1 NO. PERCO. WELL	<u>DUST-BIN PROVIDED NOTES (RESIDENCE):-</u> 1 NOS. OF COMMUNITY BIN EACH OF 80 LITRES CAPACITY SHALL BE PROVIDED FOR 8 UNIT IN MARGINAL OPEN SPACE PROVIDED = 8 UNITS / 1BIN / 80 LITRES CAPACITY. REQUIRED = 44 UNITS / 8UNITS / 1 = 5.50 NOS. REQD. PROVIDED CONTAINER = 6 NOS.
<u>TREE PLANTATION:-</u> PLOT AREA:- 1745.14 SQ. MTS. 200 SQ. MTS. / 5 TREE 1745.14 X 5 / 200 = 43.63 NOS PROVI. 44 NO. TREES	<u>DUST-BIN PROVIDED NOTES (COMMERCIAL):-</u> TOTAL FLOOR AREA FOR SHOPS = 246.77 SQ.MT. C.B. SHALL BE PROVIDED IN MARGINAL OPEN SPACE CONTAINER REQD. = 246.77 X 20 / 100 X 80 = 0.62 NOS. SAY 2 NO. OF CONTAINER OF CAPACITY 80.00 LITRE MAX. CAP. OF CONTAINER = 80.0 LIT. PROVIDED CONTAINER = 1 NOS. TOTAL C.BIN PROVIDED = 6 NOS.FOR RESI. + 1 NOS.FOR COMM. = 7 NOS.OF 80 LIT.CAPACITY

1. GENERAL NOTES :-

- It is certified that plot under reference is surveyed by me and the dimensions of all sides of plot and area as shown in plan are measured by engineer on record and in accordance with ownership / leaving record.
- Engineer is fully responsible for reviewing open spaces and coverages.
- The depth and position of existing municipal manhole is verified by on site and premises can get drainage connection.
- It is certify that according to CGOBR 2017 all the requirements of the building are checked and necessary actions are taken.
- It is certify that according to the clause no. 4.4.3 of the CGOBR 2017, the structure of the building is design as per the norms of the Indian standards.
- Design of staircase and railing is provided as per the provision of the clause no. 13.11.11 and 13.11.3 of CGOBR 2017.
- Pedestrians ramp is provided as per the provision of the clause no. 13.11.4 of CGOBR 2017.
- Lift is provided as per the provision of the clause no. 13.12 of CGOBR 2017.
- Water tank is provided as per the provision of the clause no. 13.8 of CGOBR 2017.
- letter box for each unit shall be provided at ground floor level for each unit.
- Water tank for fire safety requirement provided as per chapter no. 13.11 of CGOBR 2017.
- Electrical infrastructure shall be provided as per clause no. 13.11 of CGOBR 2017.
- Drinking water facility for disabled persons is provide as per the clause no. 13.6.2 of CGOBR 2017.
- Drainage system is provided as per the clause no. 13.10 of CGOBR 2017.
- Signages of the parking place is to be provided as per the clause no. 13.7 of the CGOBR 2017.
- Entrance of the building is provided as per the clause no. 13.1.6 of CGOBR 2017.
- The paving of building/unfinal plot as per the provision of the clause no. 13.1.3 of CGOBR 2017.
- The structure of the building is as per the norms of the specification in the standardised building construction action for the structural safety during the construction.
- Rain water storage tank and rain water harvesting system is provided as per the clause no. 17.2 of CGOBR 2017.
- Community bin provided as per the provision of the clause no. 7.2.4 & 17.2.5 of CGOBR 2017.
- Tree plantation is provided as per the clause no. 17.4 of CGOBR 2017.
- Fire safety system is provided as per chapter no. 14 of CGOBR 2017.
- Fire safety provisions shall be made as per the fire prevention and life safety measures regulation-2015 and fire prevention and life safety measures act-2013.
- Maintenance and upgradation of building is as per chapter no. 19 of CGOBR 2017.
- Marginal space & cellar shall have load bearing capacity 6000 tonnes as per the Infrastructure On Road Side Boundary As per Notification No. GH/MS/DC 2018/PR-102018-5068-L, Dt- 21/07/2018 Regarding Fire Regulation-2016.

2. HYDRANT SYSTEM:

CMOPF located near the house hold water or hydrant outlet, at each floor the main FirePump at the underground water tank with a capacity to discharge 900 litres per minute x 3 hrs. pressure as measured at the house level should be installed.

The Riser for the buildings exceeding 100 meters and above 18 meters height should not be less than 18 mm. internal diameter. The riser should be connected to the bottom of the terrace tank with a stop valve and a MFRV as act as a Down counter.

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. Each floor should have the hydrant outlet with a coupling for attaching 45 mm hose 2.5 mm bore hose-18 mm with 8 m. SS. Shutoff nozzle at each floor landing. The length of the hose reel should be enough to reach the terrace corner of the floor. The hose box with 15 meters length 50mm dia hose and 12.5 mm bore nozzle or alternate floor. The hose reel should be coupled to the Riser.

Fire service inlet shall be installed at a point near the entry to the premises where a Fire service truck can approach easily.

A permanent hydrant point comprising of 53 mm dia zone 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 10000 litres and not less than 10,000 litres. The Underground tank shall be of not less than 1,00,000 litres.

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 one lift at a Fire Lift and if the building is divided into two or more parts then each part should have a Fire Lift. Lift shall have down buttons to pressurize the lift well so connected that it will automatically operate when alarm call signal is received, so that it prevents the lift well getting smoke trapped.

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 IS mark, and one extinguisher of 9 kg. Dry Chemical Powder (DCP) type extinguisher with IS mark to be installed on each floor in case of commercial building.

One Carbon Dioxide (CO2) type extinguisher of 4.5 kg. with IS mark. Or Two Carbon Dioxide (CO2) type extinguisher of 2 kg. with IS mark capable 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 shall be to 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 from getting smoke trapped.

The Riser/Down-counter 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.

6. BASEMENT :

The basement of 200 m. meters or more should be protected with Automatic Sprinkler system with at least one sprinkler head for actual Car Park area.

Additionally be protected by a Hydrant outlet and two 25 mm. bore house hold water hose with 8 m. SS. Shutoff nozzle at each floor.

7. LIGHTING AND ARRESTER :

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

8. PHOTO LUMINESCENT (AUTO GLOW) SIGNAGES :

If the building falls in a confined area or if has an enclosed staircase or it is not well lit up on the inside, then adequate photo luminescent (auto glow) signposts/signboards should be installed at each floor / gateway / door / along inside all exit routes leading to the ground level. The signposts/signboards for fire lighting, fire safety equipment present on the respective floor/along the doorway and door and along all exit routes leading to the ground level.

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

Electricity supply to the fire parts, fire alarm system, staircase pressurization system and the fire shall 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 cut off by the power law of fire.

10. INDIVIDUAL FIRE SAFETY SYSTEM

FIRE SAFETY SYSTEM SHOULD BE PROVIDED IN INDIVIDUAL SLEEPING ROOM BY OWNER

IMPORTANT INSTRUCTIONS:

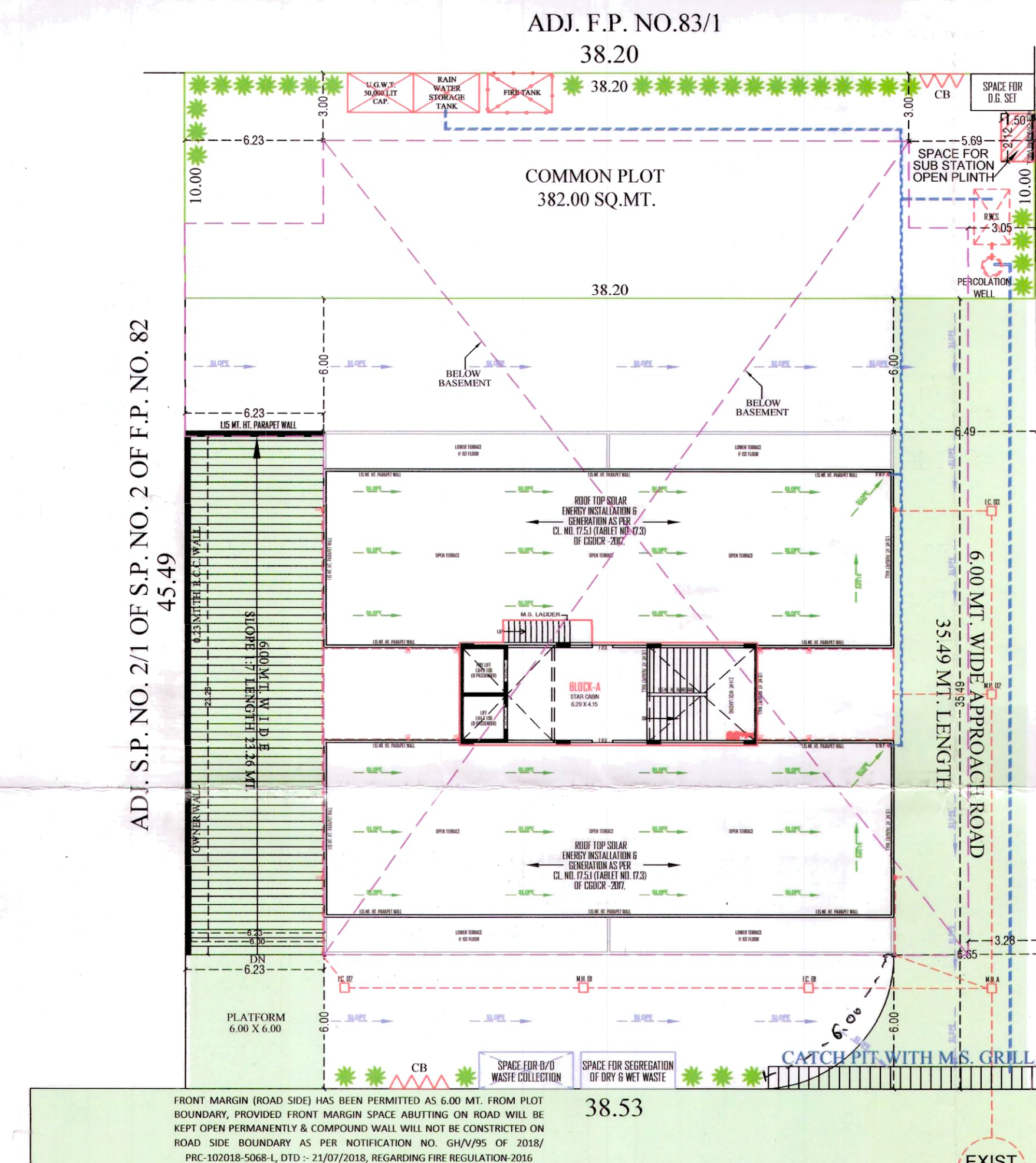
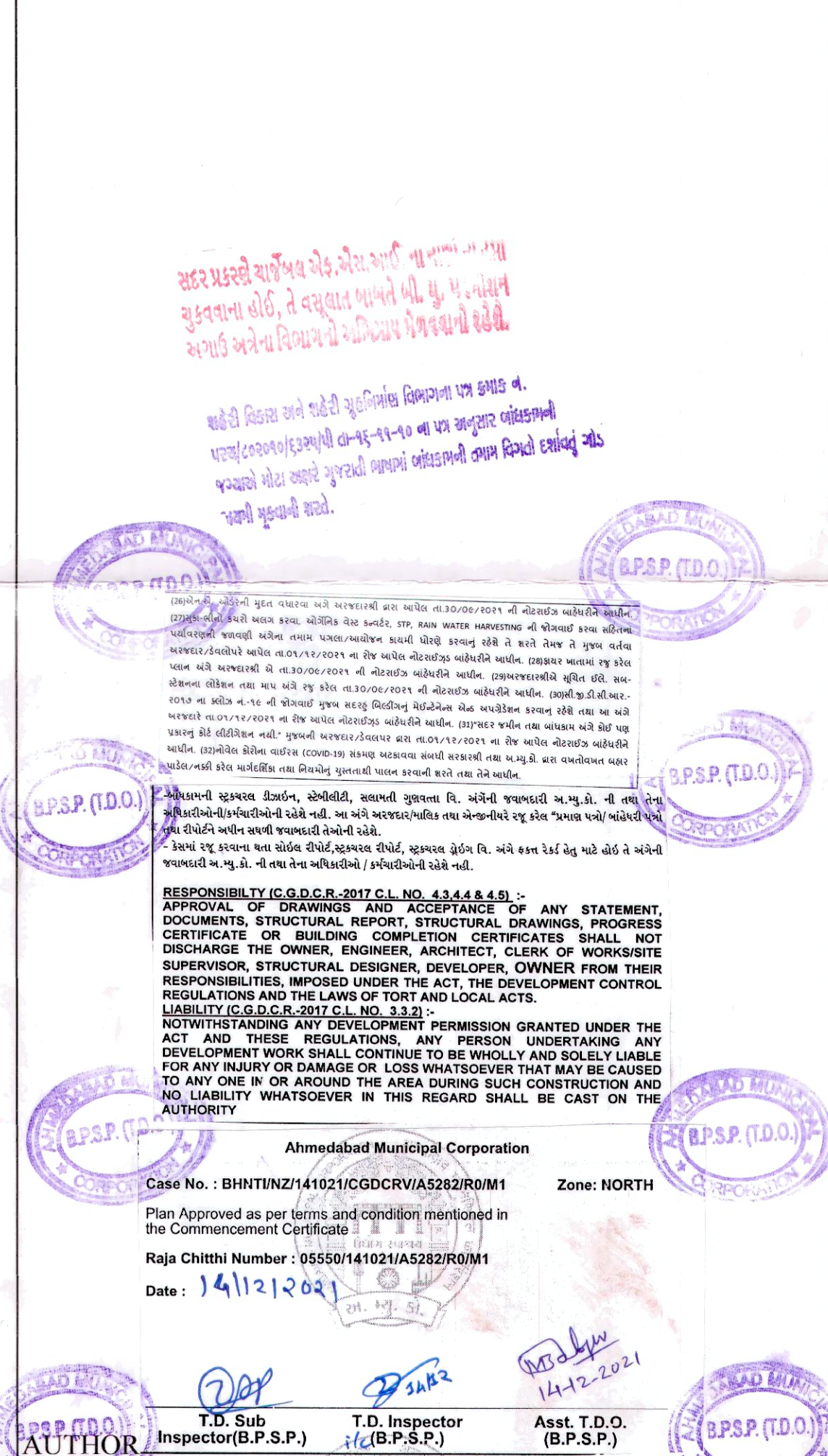
After inspection of a new-rise building for fire service authority if the fire officer concerned feels the need for additional fire prevention/protection measures / ventilation system required or equipment (i.e. . Passive system / Suppression system like Fire Extinguisher / Fire alarm system / Active system / Suppression system like Fire Extinguisher / Fire alarm system / Public gathering places).

Additional / Occasional / Confined area.

Those potential measures / equipment have to be implemented / installed.

ENVIRONMENTAL MANAGEMENT PLAN		SHEET NO.:- 2/5	
ENVIRONMENTAL MANAG. PLAN SHOWING PROPOSED RESI. + COMM. BUILDING ON S.P. NO. 2/02 OF S.P. NO. 2 OF F.P. NO. 82 OF T.P.S. NO.:- 105 (MUTHIYA-BILASIYA-HANSPURA) (FINAL) [SUR. NO. 123/P, O.P. NO. 82/1] MOJE:- HANSPURA, TA.:- ASARWA, DIST.:- AHMEDABAD			
SCALE:- 1.00 CM = 1.00 MT.		ENVIRONMENTAL MANAG. PLAN	
ZONE:- RESIDENTIAL-1 (R-1)		USE:- RESIDENCE + COMMERCIAL	
AREA TABLE		SQ.MTS.	
PLOT AREA OF S.P. NO. 2/2		1745.14	
COLOUR NOTES:-			
F. P. BOUNDARY		ROAD	
PROP. WORK		PERCOLATION WELL	
PROP. DRAIN-LINE		COM.BIN.	
COMMON PLOT		TREE	
BASEMENT LINE		SPRINKLER	

For: SHRINAND INFRA <i>Shrinand</i> PARTNER	
OWNER:- <i>Kiran N. Patel</i> KIRAN N. PATEL AMC LIC No: 001SR-127032500748 AMC LIC No: CW05; J100422R1 411-Platinum Plaza, Or p. Rajhans Cinemas, Nikol, Ahmedabad.	<i>H.U. Ramani</i> HARSHIL VINUBHAI RAMANI AMC LIC NO :-001CW17022610295 ADD:-C/2, PARISHRAM SOCIETY, GOPAL CHOWK, NEW NARODA, AHMEDABAD-382345.
ENGINEER:- <i>Shrinand Buildcon</i> SHRINAND BUILDCON JIGNESHBHAI S. VASHANI DEV LIC No: DEV1114200423 ADD: 1. SHREEDHAR BUNGLOWS OPP: BHAGVATI HOTEL BQBARKDEV, AHMEDABAD	<i>Hardik Upadhyay</i> Hardik Upadhyay Structure Engineer (Civil) A.M.C. LIC. NO.- SD0620080823
DEVELOPER:- <i>Saksharelia B.m</i> BHAVESHKUMAR M. SAKHARELIA SUPERVISOR GRADE - 1 AMC LIC NO : 001SR29102611116 GALATHI JUNAGADH BHESHAN - 362020	STR. ENGINEER:-
S.O.R.:-	



ENVIRONMENTAL MANAGEMENT PLAN

AS PER CHAPTER -17 OF CGDCR -2017

[SCALE :- 1.00 CM. = 2.00 MT.]



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TDO, BPSP, AMC

PARKING AREA TABLE (RESIDENTIAL)	REQ. SQ.MTS.	TOTAL PROVI.
TOTAL USED F.S.I. AREA = 4710.02 - 246.77 (COMM.F.S.I.)		
TOTAL USED F.S.I. AREA = 4463.25		
TOTAL REQ. PARKING AREA REQ. @ 20%	892.65	SQ.MTS.
TOTAL PROVI. PARK. AREA	-----	1037.28
REQ. CAR PARKING AREA REQ. @ 50%	446.32	-----
PROVI. CAR PARK. AREA (A2 TO A4)	-----	527.72
REQ. OTHER PARK. AREA REQ. @ 40%	357.06	-----
PROVI. OTHER PARK. AREA (B2 TO B7)	-----	390.06
REQ. VISITOR'S PARKING AREA REQ. @ 10%	89.27	-----
PROVI. VISITOR'S PARK. AREA (C2)	-----	119.50
TOTAL PARKING AREA	892.65	1037.28
VISITOR PARKING AREA (C2) 12.50 X 09.56 = 119.50 SQ. MTS. (HOLLOW PLINTH)		119.50
OTHER PARKING AREA		
(B2) 05.39 X 09.33 = 50.29 SQ. MTS. (BASEMENT)		
(B3) 06.67 X 11.59 = 77.31 SQ. MTS. (BASEMENT)		
(B4) 09.26 X 08.85 = 81.95 SQ. MTS. (BASEMENT)		
(B5) 13.37 X 06.73 = 89.98 SQ. MTS. (BASEMENT)		
(B6) 05.89 X 11.11 = 65.44 SQ. MTS. (BASEMENT)		
(B7) 05.89 X 04.26 = 25.09 SQ. MTS. (HOLLOW PLINTH)		
CAR PARKING AREA		
(A2) 28.51 X 11.73 = 334.42 SQ. MTS. (BASEMENT)		
(A3) 25.84 X 03.86 = 99.74 SQ. MTS. (BASEMENT)		
(A4) 12.87 X 07.27 = 93.56 SQ. MTS. (HOLLOW PLINTH)		

PARKING AREA TABLE SOLID PLINTH COMM.-:-

USE F. S. I. AREA = 246.77 SQ. MT.
OF PLOT AREA
PARKING REQD. @ 50% OF 246.77 = 246.77 X 0.50 = 123.39

PARKING	REQUIRED	PROVIDED	TOTAL
VISITOR @ 20% OF 123.39	(C1) 25.49 X 1.50 = 38.24 SQ. MTS. (OPEN MARGIN)		
OTHER @ 30% OF 123.39	(B1) 07.52 X 9.33 = 70.16 SQ. MTS. (BASEMENT)		
CAR @ 50% OF 123.39	(A1) 08.94 X 9.33 = 83.41 SQ. MTS. (BASEMENT)		
TOTAL	123.39	191.81	

PROP. B. AREA CALC. ON BASEMENT FL.-:-

(1) 28.97 X 32.62 = 945.00 SQ. MT.
(2) 26.30 X 03.86 = 101.52 SQ. MT.
(3) 06.23 X 09.57 = 59.62 SQ. MT.
TOTAL = 1106.14 SQ. MT.
NET B.AREA ON BASEMENT FLOOR = 1106.14 SQ. MT.

PHY. DISABLED CAR PARKING AREA CAL :-

FOR 25 CAR = 2 CAR PARKING
REQUIRED CAR PARKING = 21 X 2 / 25 = 1.68 SAY 2
PROVIDED CAR PARKING = 2 CAR FOR P/H

FIRE HYDRANT LEGEND

SR.	SYMBOL	DISCRPTION
1		FIRE HYDRANT SYSTEM PIPE MAIN
2		SINGLE HANDED HYDRANT VALVE
3		SLUCE VALVE
4		NON RETURN VALVE
5		LANDING HYDRANT VALVE
6		FIRE HOSE BOX
7		FIRST AID HOSE REEL
8		DCP & CO-3
9		TWO WAY SHAMOSE CONNECTION
10		RISE OR DROP
11		REDUCER
12		COURT YARD HYDRANT VALVE
13		SPRINKLER

PARKING TABLE	REQD.	PROVIDED
VISITOR PARKING	24.68	38.24
OTHER PARKING	37.02	70.16
CAR PARKING	61.69	83.41
TOTAL	123.39	191.81

PARKING TABLE	REQD.	PROVIDED
VISITOR PARKING	89.27	119.50
OTHER PARKING	357.06	364.97
CAR PARKING	446.32	434.16
TOTAL	892.65	799.13

PARKING TABLE	REQD.	PROVIDED
VISITOR PARKING	89.27	119.50
OTHER PARKING	357.06	364.97
CAR PARKING	446.32	434.16
TOTAL	892.65	799.13

GENERAL NOTES :-

- It is certified that the plan and dimensions of all sides of plot and plot area as shown in plan are measured by engineer on record and in accordance with the provisions of the Act.
- Engineer is fully responsible for leaving open space and margin.
- The depth and position of existing municipal drainage is verified by the site and engineer on record.
- It is certified that the plan and dimensions of all sides of plot and plot area as shown in plan are measured by engineer on record and in accordance with the provisions of the Act.
- Design of drainage and water supply is provided as per the provision of the clause no. 13.1.1 and 13.1.3 of CGOBR 2017.
- Water tank is provided as per the provision of the clause no. 13.8.2 of CGOBR 2017.
- Water tank for each unit shall be provided at ground floor level for each unit.
- Water tank for fire safety requirement provided as per clause no. 13.11 of CGOBR 2017.
- Electrical infrastructure shall be provided as per clause no. 13.11 of CGOBR 2017.
- Drinking water facility for disabled persons is provided as per the clause no. 13.6.2 of CGOBR 2017.
- Drainage facility is provided as per the clause no. 13.10 of CGOBR 2017.
- Signage of the parking place is to be provided as per the clause no. 13.7 of CGOBR 2017.
- Entrance of the building is provided as per the clause no. 13.1.8 of CGOBR 2017.
- The design of building entrance is to be provided as per the clause no. 13.1.3 of CGOBR 2017.
- The structure of the building is to be provided as per the clause no. 13.1.3 of CGOBR 2017.
- Rain water storage tank and rain water harvesting system is provided as per the clause no. 17.2 of CGOBR 2017.
- Common area provided as per the provision of the clause no. 17.2.4 & 17.2.5 of CGOBR 2017.
- Tree plantation is provided as per the clause no. 17.4.4 of CGOBR 2017.
- Fire safety system is provided as per clause no. 14 of CGOBR 2017.
- Fire safety provisions shall be made as per the fire prevention and life safety measures regulation-2013 and fire prevention and life safety measures act-2013.
- Maintenance and upgrade of building is as per clause no. 19 of CGOBR 2017.
- Material space & other shall have load bearing capacity of 4000 tonnes per square meter shall be provided as per the clause no. 14 of CGOBR 2017 and fire prevention and life safety measures act-2013.
- Roof top solar energy installation & generation shall be provided as per clause no. 17.8.1 of CGOBR 2017.
- The glazed surface area of the external facade shall be not more than 50% of the total area of the facade.
- Common area provided as per the clause no. 13.1.3 of CGOBR 2017.
- Common area provided as per the clause no. 13.1.3 of CGOBR 2017.
- Common area provided as per the clause no. 13.1.3 of CGOBR 2017.

1. HYDRANT SYSTEM:

On/off switches located near the hose reel hose or hydrant outlet at each floor the main Fire Pump at the underground water tank with a capacity to discharge 100 litres per minute at 3 bar pressure as measured at the service level should be installed. The Rise for the buildings exceeding 18 meters and above 18 meters height equal to 18 mm. Internal diameter. The hose reel should be connected to the bottom of the service tank with a stop valve and a 1/2" to 1" to 2" to 3" to 4" to 5" to 6" to 7" to 8" to 9" to 10" to 11" to 12" to 13" to 14" to 15" to 16" to 17" to 18" to 19" to 20" to 21" to 22" to 23" to 24" to 25" to 26" to 27" to 28" to 29" to 30" to 31" to 32" to 33" to 34" to 35" to 36" to 37" to 38" to 39" to 40" to 41" to 42" to 43" to 44" to 45" to 46" to 47" to 48" to 49" to 50" to 51" to 52" to 53" to 54" to 55" to 56" to 57" to 58" to 59" to 60" to 61" to 62" to 63" to 64" to 65" to 66" to 67" to 68" to 69" to 70" to 71" to 72" to 73" to 74" to 75" to 76" to 77" to 78" to 79" to 80" to 81" to 82" to 83" to 84" to 85" to 86" to 87" to 88" to 89" to 90" to 91" to 92" to 93" to 94" to 95" to 96" to 97" to 98" to 99" to 100" to 101" to 102" to 103" to 104" to 105" to 106" to 107" to 108" to 109" to 110" to 111" to 112" to 113" to 114" to 115" to 116" to 117" to 118" to 119" to 120" to 121" to 122" to 123" to 124" to 125" to 126" to 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