



**SUBMISSION DRAWING**  
DRAWING TITLE: **SERVICES PLAN** DRAWING NO: **05 / 14**  
PROJECT: **PROPOSED ADDITIONS FOR LAKE VIEW APARTMENTS AT SECTOR - 48, FARIDABAD FOR M/S ZION PROMOTERS & DEVELOPERS PVT. LTD.**

**LEGEND:**  
SEWAGE LINE: 200MM Ø SEWAGE PIPE ASU PLAN (SLOPE 1:100)  
STORM WATER LINE: 300 Ø RAIN WATER PIPE (SLOPE 1:100)  
COLD WATER LINE: 25 Ø RAIN WATER PIPE  
FLUSHING SUPPLY: 25 Ø RAIN WATER PIPE  
150 Ø FIRE PIPE  
CIRCULAR MANHOLE: 560 Ø / 920 Ø  
RECTANGULAR MANHOLE (750x750): 750 x 750  
RAIN WATER GULLY TRAP (450 x 450 MM): RGT  
INSPECTION CHAMBER (750 x 750 MM): I.C.

**NOTES:**  
1. SIZE OF G.T. 450X450  
2. SIZE OF I.C. 750X750  
3. SIZE OF HORIZONTAL WASTE PIPE 150 MM DIA (UP TO MANHOLE ONLY)  
4. SIZE OF HORIZONTAL SOIL PIPE 150 MM DIA (UP TO MANHOLE ONLY)  
5. SIZE OF RAIN WATER PIPE 150 MM DIA (UP TO I.C. ONLY)

- NOTES:**
- GATE AND B.WALL AS/ HUDA STD. DESIGN.
  - LETTER BOXES SHALL BE PROVIDED FOR EACH UNIT ON GROUND FLOOR.
  - PARKING SPACE SHALL NOT BE RENTED OUT OR SALE IN FUTURE.
  - PUMP HOUSE SHALL BE PROVIDED FOR BOOSTING OF DRINKING WATER.
  - STAND BY GENERATOR SET SHALL BE PROVIDED FOR 24 HRS. RUNNING LIFTS AND FIRE PUMPS.
  - ALL WINDOWS ARE OPENABLE.
  - SOLAR HEATING SYSTEM PROVIDED.
  - RAIN WATER HARVESTING AT THE SITE.

**WATER SUPPLY SCHEME FOR PROPOSED GROUP HOUSING SCHEME BEING DEVELOPED BY M/S ZION PROMOTERS & DEVELOPERS PVT. LTD. IN SECTOR - 48, FARIDABAD**

Water Demand Calculations (For U.G. Tank)	
Total No. of Dwelling Units = 84	84 Units
Population for 84 Dwelling Units @ 3 Persons / DU	432 Persons
Total No. of EWS Units = 15 EWS Units	15 Units
Population for 15 EWS Units @ 2 Persons / EWS = 15 x 2 = 30 Persons	30 Persons
No. of Servants = 2 x 84 x 10% = 16.80 Persons	17 Persons
Total No. of Occupants = 420 + 30 + 17 = 467 Persons	467 Persons
Average Water Demand for Residential @ 175 LPCD = 467 x 175 = 81,675 Ltrs.	81,675 Ltrs.
Population for Commercial @ 3 Sqn / Person = 85,275 / 3 = 28,425 Persons say 28 Persons	28 Persons
Permanent Population for Commercial @ 3% of Total (3% x 562 = 16.86 Persons)	17 Persons
Average Water Demand for Permanent Population @ 45 LPCD = 17 x 45 = 765 Ltrs.	400 Ltrs.
Flushing Population for Commercial @ 65 % of Total (65% x 19 = 12.35 Persons)	13 Persons
Average Water Demand @ 15 LPCD for Flushing Population = 13 x 15 = 195 Ltrs.	200 Ltrs.
Total Average Water Demand (A.D.) per Day	81,282 Ltrs.
Total Peak Water Demand (P.W.D.) @ 3 x Average Demand	2,43,846 Ltrs.
Capacity of U.G.T. for 36 Hours of Average Demand	1,21,923 Ltrs.
Capacity of U.G.T. (for Domestic Use) Required @ 85 %	79,200 Ltrs.
Capacity of U.G.T. (for Flushing Use) Required @ 15 %	45,675 Ltrs.
Provided U.G. Tank for domestic use	80,000 Ltrs.

**LEGEND FOR FIRE FIGHTING**

- FIRE HOSE CABINET
- CO2 TYPE FIRE EXTINGUISHER
- ABC TYPE FIRE EXTINGUISHER
- FIRE ALARM
- F.C.D. FIRE CHECK DOOR (HOLDERS)
- TWO WAY EXIT STORAGE

**PLUMBING LEGEND**

- 1 100 Ø SWP
- 2 100 Ø WWP
- 3 100 Ø RWP
- 4 32 Ø CHVS DOWN
- 5 32 Ø FLUSHING DOWN COMER

SCALE: N.T.S.  
DATE: MAR. 2016  
DEALT: SAXENA L.K.  
CHECKED: NARENDER S.DRAWING TITLE: **SERVICES PLAN**  
OWNER: Zion Promoters & Developers Pvt. Ltd.  
ARCHITECT: **VIRENDER ASSOCIATES**  
**05 / 14**