

Sub.: Standard measurement for pipes and fittings used for plumbing.

Details of sizes of GI and HDPE pipes are given in Circular No. 608(a). For the sake of clarity relevant part of the circular is given under for implementation at each site.

The size of pipes to be used for villas/apartments projects are as follows:

S. No	Description of use	For bungalows project	For apartment projects
1	Inside bathrooms – use CPVC only	$\frac{3}{4}$ " pipes	$\frac{3}{4}$ " pipes
2.	Kitchen and utility – use CPVC only	$\frac{3}{4}$ " pipes	$\frac{3}{4}$ " pipes
3.	External water supply lines for bathroom/ utility / kitchen – Use CPVC only	Vertical $1\frac{1}{4}$ " & 1" horizontal line	I, II & III floors $\frac{3}{4}$ " pipes,, IV, V & VI floors 1", VII to X floors $1\frac{1}{4}$ ".
4.	Drinking water supply line - Use CPVC only.	$\frac{1}{2}$ " HDPE line from street	I, II & III floors $\frac{3}{4}$ " pipes,, IV, V & VI floors 1", VII to X floors $1\frac{1}{4}$ ".
5.	Terrace lines	Vertical $1\frac{1}{4}$ " & 1" horizontal line – use CPVC only	Borewell water 2" main line. Drinking water $1\frac{1}{2}$ " mainline. Main lines in GI. Branch lines in CPVC/GI as above.
6.	Supply to OHT	$\frac{3}{4}$ " HDPE pipe from street	$1\frac{1}{4}$ " & $1\frac{1}{2}$ " GI line from borewell – vertical Underground lines of same size in HDPE.
7.	Underground plumbing lines - Use double valve PVC pipes along with PVC manholes, risers and PVC covers (Eco drain pipes).	4" pipes with appropriate size PVC chambers inside villa. Main line on street 6".	Main line in 8" with appropriate size PVC chambers.

The recommended sizes for electrical conducting, water connection lines and drainage lines is as under. However, separate drawing will be issued for villa projects.

S. No.	Description of use	For villas project	For apartment projects
1.	Underground drainage lines - use eco-drain pipes (or similar make) and fittings, chambers.	4" inside villa 6" along streets 8" connecting several streets to septic tank.	4" internal connections within the block. 6" main drainage line within the block. 8" connecting all blocks to septic tank.
2.	Electrical conducting line	8" NP3 CC pipe with built in collar. 18"x 18"x 30" manholes.	6" NP3 CC pipe for each HT/LT line with built in collar. Optionally 8" can be used. 24"x 24"x 30" manholes.

3.	Conducting for water lines	8" NP3 CC pipe with built in collar. 18"x 18"x 30" manholes. 1" HDPE pipe for drip irrigation/gardening 1 ¼ to 1 1/2" HDPE pipe for drinking water line. 1 ½ to 2" HDPE pipe for general use water line.	NA
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Note:

1. Separate circular for water connection and drainage lines will be issued.
2. Order with part nos. as per guidelines issued from time to time.

Managing Director.