

Appendix 1B: Essential Information to be Presented in VPLD (Vertical Plumbing Line Diagrams)

I. Requirement for all Projects:

- ✓ Show locations of lot boundary;
- ✓ Show all draw off points and their locations;
- ✓ Show all pipes and their size and materials;
- ✓ Specify jointing methods of pipes;
- ✓ Specify pipes for cold/hot water and fresh/salt water;
- ✓ Show all valves, including Pressure Reducing Valve, Butterfly valves, non-return valves/check valves, strainer;
- ✓ Show position of meters /check meters and indicate their sizes;
- ✓ Show all water tanks/cisterns with their size and material;
- ✓ Show the receptacle of water point / draw-off point (i.e. Sink, Basin, Bath Tub, Shower Cubicle ...etc.);
- ✓ Show all pumps with their pump rate and head;
- ✓ Show all water using apparatus and information on the type of water using apparatus (e.g. type of water heater, kitchen equipment, drink dispenser, drinking fountain, washing machine (submerged inlet or non-submerged inlet), etc.);
- ✓ Show all waterworks fittings not covered above (e.g. boiler, calorifier, expansion vessel, float switch, etc.);
- ✓ Specify whether plumbing works between the lot boundary and any master meter or check meter positions are exposed or laid in a proper service trench/duct;
- ✓ Indicate the extent of underground buried pipes;
- ✓ Specify datum level of connection point, if applicable, and top of the buildings, which are required to determine the water supply mode (i.e. direct supply system or indirect supply system);
- ✓ Indicate proposed connection main, if participated in Helping Business Programme;
- ✓ Show a legend of all markings and symbols shown or used;
- ✓ Show the approximate dimensions of water storage cisterns and approximate levels of inlet water pipes, outlet water pipes, overflow pipes and warning pipes (if any) with respect to the bottom of the cisterns;
- ✓ Indicate location of overflow or warning pipe (if any) for the water tanks that discharge to conspicuous position / building periphery;
- ✓ Show the flow direction;
- ✓ Indicate the size of potable and flushing supply connections.

II. Additional Requirements for Specific Projects:

i. On-line Replumbing Works

- ✓ Specify extent of online re-plumbing works

ii. Project Adopting MiC (Modular Integrated Construction) Method

- ✓ Specify the part of the plumbing installations (plumbing works) to be constructed off-site in a MiC factory, if any.
- ✓ Specify the concealed parts, if any, of the plumbing installations.

iii. Addition & Alteration Works

- ✓ Provide the original supply mode and the upstream part of the existing system; and
- ✓ Clearly specify the part of inside services which are newly installed / to be demolished.