

By email at chit-ki_ip@wsd.gov.hk

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Ir IP Chit Ki
Senior Engineer/Technical Support (1)
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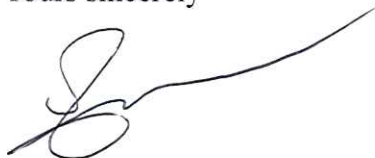
Dear Ir IP

Draft Update of Technical Requirement for Plumbing Works in Buildings and Guide to Application for Water Supply (October 2019 Version)

Regarding the draft update of the captioned documents, the Institution is pleased to submit herewith the further views and suggestions for your consideration.

Thank you for your attention.

Yours sincerely



Winfield CHAN
Senior Manager – Special Duties & Planning
The Hong Kong Institution of Engineers

WC/ML

Enclosure

**Views from the Hong Kong Institution of Engineers
on Draft Update of Technical Requirement for Plumbing Works in Buildings and
Guide to Application for Water Supply (October 2019 Version)**

The Hong Kong Institution of Engineers (HKIE) supports updating the Technical Requirement for Plumbing Works in Buildings and Guide to Application for Water Supply regularly in order to consolidate all prevailing technical and submission requirements and to introduce new measures for submission of application.

2. The HKIE would like to provide the following suggestions and views with respect to various Sections of the draft documents for the Administration's consideration:-

DRAFT TECHNICAL REQUIREMENTS FOR PLUMBING WORKS IN BUILDINGS

Section	Suggestions/ Views
3.1.8	Suggest to elaborate the reason that only single jet meter and turbine meter shall be provided with upstream installment of strainer and to review whether filter can be used.
3.2.2.3	Suggest to consider allowing other building services to pass through or be placed inside the meter rooms/meter boxes/master meter rooms with proper enclosure (e.g. metal sheet - stainless steel).
3.2.2.5 (b)	Suggest to specify what " <i>adequate drainage inside the meter room and the meter box</i> " is (e.g. weep hole, floor drain, etc.).
4.1.3.1	Suggest to clarify whether hot bending for polyvinyl chloride (PVC) is also prohibited. It is also suggested to allow bend or curve on site while the internal diameter of the pipe can be retained.
4.2.4.10	Suggest to elaborate the impracticable situation of providing a standby pumpset (e.g. not adequate plant area).
4.2.6.3.2	Suggest to allow drift loss together with evaporation loss for evaporative cooling/ air-conditioning/ humidification systems.
4.2.7.1.8	Suggest to advise whether instantaneous electric heater is also applied.
4.2.7.2.1	Suggest to include the cold feed pipe from sump tank with booster pump which is the same source for the hot water system.
4.2.7.2.5, 4.2.7.2.6 and 4.2.7.2.17	Suggest to consider hot water storage tanks and calorifiers with temperature and pressure relief valve, air vent and vacuum breaker in Section 4.2.7.2.17 as alternative to Section 4.2.7.2.5, otherwise centralised hot water supply for zones or storeys below the roof of buildings will possibly constant overflows.
4.2.7.2.16	Suggest that the manufacture of pressure vessels and boilers shall comply with relevant British, European, or American standards.

4.3.1.2	Suggest to clarify whether salt water supply from sea-front shall be allowed for flushing water supply. It is also suggested to consider requiring the Authorised Persons (AP) / Licensed Plumbers (LP) to undertake the source to ensure its reliability while applying the General Acceptance Letter of water supply.
5.3.2	Suggest to clarify whether galvanised iron pipe, which is widely adopted in the industry, would also be considered.
6.2.1.1.4	Suggest to clarify whether the minimum headroom is counted from the bottom of beam to the top of water tank.
6.2.6.2	Suggest to clarify whether twin-tank is recommended regardless of the capacity of water cistern.
6.4.1	Suggest to review whether water hammer arrestors shall be installed at the bottom of bend instead of near pump discharge.

DRAFT GUIDE TO APPLICATION FOR WATER SUPPLY

Section	Suggestions/ Views
1.2	For the third paragraph, <ul style="list-style-type: none"> • in point (3), suggest to clarify whether it is also applicable to water meter installed by the LP. • in point (5) table A, suggest to review whether food and beverage shops or restaurants are classified as shop units. • in point (5) table B(i), suggest to clarify whether the “length” should be “<i>equivalent length</i>”.
3.2.2.2	Suggest to consider that the Drawing Index should include the “ <i>drawing title</i> ” instead of “ <i>description of the drawing</i> ”.
3.2.2.5	Suggest to clarify whether the symbols shall be strictly followed.