

Dubai Electricity & Water Authority
(Consumer Service Department – Ref: IMS / W-NOC / 02)
IMS (Intelligent Metering System)

II. Requirements related to the Installation of Bulk Water Meters:-

1. Bulk water meters shall be installed in Meter Chambers in horizontal position in accordance with the arrows shown on the body and the register shall be arranged in the most convenient position for reading. Meters should not be allowed to fall or receive impact damage as this may affect the operation and accuracy of the meter. Pipeline shall be flushed thoroughly before the installation of the meter.
2. The meter shall be installed on a straight length of pipe the same diameter as the meter and equivalent in length to 10 times the meter diameter at the inlet and 5 times the meter diameter at the outlet.
3. Any type of disturbances/obstruction such as flange joints, partly closed valve, bends, tees etc., upstream or downstream of the meter shall be avoided.
4. The meter shall be installed at the lowest point to ensure it is fully flooded at all times to avoid air flow through the meter.
5. Full-bore valves shall be fitted upstream and downstream the meter to enable the meter to be removed for maintenance works.
6. The valve before the meter shall be fully open at all times and any regulation of flow shall be carried out on the valve after the meter.
7. A Strainer shall be fitted on the inlet side of the meter to protect the meter.
8. Utmost care shall be taken to install the meter as per the manufacturer's 'Installation Instructions' supplied with the meter.
9. All connections shall be checked thoroughly for leak after installation of the meter.
10. The meter shall be installed in a chamber (meter shall not be buried) suitable in size for fitting in, maintenance, removal and *in situ* dismantling of the meter.
11. The meter body shall not touch on ground and proper support shall be provided. Care shall be taken not to cover the flange or any part of the meter by concrete.
12. The meter chamber shall be waterproof, clear of obstacles, even, rigid and not slippery. There shall be a sump pit inside the chamber for draining water.
13. GRP ladder shall be provided permanently for easy access to the meter.
14. Meter chamber shall be protected from getting buried by sand, flooding, rainwater, and parking the vehicles on the chamber.
15. Meter chamber cover shall be clearly and indelibly marked with DEWA logo and the wording 'Water Meter' on the cover in Arabic and English language.