it fall under water network designed by him.

The bulk connection shall include all or part of the following components as defined by AADC in one or more chambers as per specifications and ADWEA/AADC standard details drawings:-

- Electromagnetic flow meters with logger and connection to SCADA system.
- Automatic Control valves for controlling pressure and flow with connection to SCADA system (capable to operate at lower pressure)
- Strainer upstream the flow control valve.
- Isolation valves at the upstream of the connection
- Non return valve downstream the of the connection.
- Power connection or solar power source if there is no power connection

The components to be provided at each Bulk Connection shall be defined by AADC.

The design of Bulk Connection chamber shall allow easy removal of any of the components inside the chamber during the maintenance works.

The size of pipework at the bulk connection chambers is generally reduced by one size less than the feeding pipeline but shall not be less than 80 mm.

6.23 District Area Meters (DMA)

The design of water distribution networks in Al Ain region shall consider the concept of District Area Meters (DMA). The boundaries of the DMAs and the location of the feeding points shall be defined by AADC or in coordination with AADC.

The following criteria may be applied to define the boundaries of the DMA :-

- Suitable boundary size, inflow and number of connections that allow effective operational management of water distribution networks particularly the leakage management.
- Maintain similarity to existing DMAs in Al Ain region considering the number of connections and covered areas.
- Use natural and artificial features as boundaries for DMA such as main roads, wadis, boundaries of Municipality districts,
- At existing networks where possible the DMA shall consist of pipelines of same age and material with minimum change to existing networks.
- Use the boundaries of pressure zones and pumping zones as boundaries for DMAs