

The water demand estimates for the new projects / developments shall be submitted and approved by AADC prior proceeding to the preliminary design of water networks.

2. Detailed Design Stage

After AADC approval of the preliminary design stage the designer shall proceed to the detailed design stage and shall submit a detailed design report.

The detailed design report shall discuss in more details the topics discussed in the preliminary design report with more concentration on the design option to be applied. Also the report shall incorporate AADC comments on the previous design stages. This shall include:-

- Incorporation of received comments on the previous design stages
- Discuss the design option to be applied in more details.
- Detailed hydraulic analysis using suitable software
- Layout drawings for the proposed water networks including location of chambers and other water facilities, road crossings, location of protection to pipelines,
- Pipeline profile (as applicable)
- Standard detail drawings.
- Structural calculations for buildings, water facilities such as chambers and structures (as applicable), etc..
- Detailed Cost estimate
- Identification and assessment of associated risks and risk treatment
- Value engineering assessment (as applicable).

3. Tender Document

A typical tender document for water projects shall include 5 volumes as follows:-

If the designer scope not include preparation of Tender document such as for the projects designed for third party (i.e. for real estate developers, etc..), the designer shall submit a construction document including most of the parts covered in tender document that clearly specify the works to be constructed and enable proper supervision of the construction stage.