6.3.2 Whole-Life Cost

In considering alternative investment options for network and storage planning, the designer shall demonstrate that his preferred options are the most economic through undertaking whole-life cost analyses.

Whole-life costs shall be used to determine planning horizons and the appropriate phasing of development, taking account of growth in demand and changing operating conditions. In addition to size of mains in conjunction with their associated pumping stations to determine the most economical sizes.

The designer shall use the discount interest rate stipulated by the RSB for whole-life costing.

6.3.3 Other Requirements During the Design and Construction Stage.

- The designer shall obtain the required approval for the design stage form the concerned authorities other than AADC such as UPC (i.e. for pipeline route approval), Al Ain Municipality, Civil Defence, etc.
- After the completion of the design stage the designer shall submit the layout of pipeline in CAD format suitable for incorporation in AADC GIS system.
- After completing the construction works As Built drawings and O & M manuals shall be submitted to AADC as per ADWEA/AADC requirements.
- Further design documents may be submitted, also site visits and investigations, data collection, regular meetings with AADC may be carried out as required during the different design stages

6.3.4 Data Provided by AADC

AADC may provide, upon request from the designer, the following data for the design of water project:-

- Layout of the existing and proposed AADC water networks within and adjacent to the project area and the status of the pipeline (i.e. proposed, active, abandon, etc..). The layout will be provided in printout or soft abstract from ADWEA GIS.
- Define in coordination with the designer the possible tapping points to AADC system and provide the required details of AADC system at the tapping points.
- Define the existing and proposed boundaries and feeding points of DMA at the project area, the residual pressure upstream the DMA feeding points.