

1.7 Part 7 Appendix

1.7.1 List of Approved Manufacturers

- A. The Department maintains a Data Base of materials which have been previously approved for specific applications and used on various contracts. The Data Base is a live document and subject to regular updates. The Contractor may propose new materials provided they comply with the Contract Specifications in all respects. However the Department shall not be bound to accept any such offer and need not to assign any reason for the non-acceptance.
- B. All materials, equipment and machinery (including electrical motors) shall be manufactured in the original country of manufacturer and similar items of Plant like pumps, motors, etc. shall be obtained from one manufacturer only.
- C. The Contractor shall provide comprehensive information and detailed schedules for each type of material / equipment proposed showing type, manufacturer, country of origin, local agent and all other data and information required for a technical appraisals. The submittals shall be accompanied by detailed technical descriptions, catalogues, lists of references, showing that the material / equipment is suitable for the climatic and environmental conditions prevailing at the Site. When evaluating the offers, emphasis will be paid to durability, ease of operation and maintenance, access to major items of the Plants. Submittals shall, in addition to requirements listed elsewhere, include schematics and flow diagrams showing the built up of the plant.

1.8 Part 8 Control Philosophy for Pumping Stations

1.8.1 General

- A. The Control Philosophy shall be applicable typical for all pumping stations.
- B. The contractor shall provide the software to enable long distance controlling.
- C. The local RTU, which connected to the SCADA system, will be used for monitoring and controlling of the pumping station.

1.8.2 Control Description

- A. This control philosophy for multi-pump pumping stations, utilizing the installed analogue level detection system mainly hydrostatic level measurement with a float or conductivity probe system as back-up in the event of a failure of the level detection measurement system.