

Storm water pumps shall be metallic designed to be resistant to abrasion and effectively resistant to corrosive media not less aggressive than specified in the table included in Clause 1.06 of Part 1 above.

- B. The pump covered by this specification shall be suitable for the specified operation conditions and shall be designed and manufactured for a minimum service of 15 years.

The pumps shall be designed for continuous duty without requiring any major overhaul for 3 years duration or 25,000 hours operation, whichever is later.

- C. Low maintenance cost, reliability and trouble free operation shall be a prime consideration when selecting the bid pumps.
- D. Pump design flow rates shall be determined from the range of process requirements with an additional allowance of 10% at maximum design flow.
- E. The shut-off head shall be minimum 20% higher than the rated head at rated speed and capacity.
- F. The optimum efficiency of the submersible direct-coupled pumps pump shall not be less than 70% whereas efficiency of the submersible axial pumps shall not be less than 75 %. In case the individual pump performance characteristic parameters require, lower efficiency to ensure efficient and trouble-free operation conditions, the Contractor may be allowed to do so, but he shall prove to the satisfaction of the Engineer that there is no operational problems effecting the pump life time.
- G. Each pump and associated equipment shall be arranged to permit easy access for operation, maintenance and pump removal without interrupting pumping operation. The Contractor shall confirm the proposed pump arrangement when submitting the construction drawings.
- H. Flanges shall be raised face in accordance with EN 1092. The pressure rating of the suction nozzle shall be same as the discharge nozzle rating.
- I. Necessary tapings shall be provided on the suction and delivery flanges to allow for installation of the pressure gauges where applicable.
- J. Required allowable nozzle forces and moments shall be carefully determined by the Contractor and Manufacturer, taking into account the connected pipes and equipment.