

- C. Suitable corrosion prevention materials, equipment or finishes shall be provided for protection of all pumping plants and associated valves and fittings.
- D. The lifting station pumps shall be designed of non-glugging impellers to accept storm water with solids of 75 mm diameter minimum including plastics, wood, fibrous matter, metal parts and animal waste.
- E. The mechanical / electrical installations and their associated civil works shall include but not be limited to the following:
- Fully submersible mixed flow pumps/ Axial Flow pumps/ Sump Drain pumps.
 - Moveable Bar Screens
 - Provision of Sand Trap ahead to the pump station to prevent accumulation of sands inside the wet well.
 - Lifting equipment
 - Operating control / switchgear system/ SCADA & RTU system.
 - Air conditioning system.
 - Pipe work including fittings, appurtenances, accessories
 - Cabling / wiring with accessories
 - Indoor / Outdoor lighting system
 - Surge Suppression Equipment (if necessary)
 - Flap Gate or Rubber Check Valves
 - Lightning / earthing system, fire alarm, fire protection system
 - Telephone system
 - Emergency power supply connection facility
- F. Prior to commencing any work or materials submissions, the Contractor shall submit to the Engineer for approval his detailed design proposals and material samples confirming that the required performance will be attained.
- G. The minimum life expectancy of the electro-mechanical installations varies between 3 years to 15 years and the Contractor shall submit to the Engineer the manufacturer warranty for material and equipment prior to the installation with life expectancy of each material, item, plant or equipment.