A. Measurement and control of a liquid fluid level shall be affected by means of one static pressure sensor at each wet well (piezo resistive type or membrane capacitor type). Sensors with housing shall be fully submersible, explosion proof and shall be provided with adjustable stainless steel supported cables and shall be installed in UPVC pipe.

B. The supply shall include indicators all cables, accessories and fixing, amplifier, transducer / transmitter, power supply unit installed in the MCC panel. Protection class (sensor) shall be IP 68, explosion proof the accuracy =/- 0.25 % of the calibrated span and the output signal 4 to 20 mA. The sensor shall be of hest alloy (C) steel material. The unit shall be suitable for 24 Volt DC-supply. the indicator shall have 4 Nos. minimum programmable relay contacts with barograph and digital displays

   a. Functions per level instrument shall be:
   b. Start & Stop of pumps
   c. Dry-run protection for pumps
   d. Low - Low level alarm
   e. High-High level alarms
   f. Level indication
   g. Analogue signal transfer to indicator / PLC / RTU-telemetry/ SCADA

Level Instrument (Float Switch)

A. Micro-switch operated float type switch combination, protection class IP 68, explosion proof with adjustable stainless steel supporting cable, including transducers, transmitters, and power supply installed in suitable enclosures and accessories necessary for a fully functional instrument as well as all necessary fixing materials. Functions shall be

   a. Start and stop of pumps
   b. Dry run protection for pumps
   c. Low-Low level alarm
   d. High-High level alarm
   e. Digital signal transfer to PLC / RTU-telemetry/ SCADA

B. Mercury type switches are not acceptable.

C. The float switches shall be suitable for 24 volts – DC.