Specifications of Equipment for Tender Bid cum Quotation

Name of Equipment/ Assembly	Gradient Ratio Test Apparatus
Related Standards to be accorded	ASTM D5101
Features/capabilities /Specifications	 Equipment shall be separated in upper and lower tube and have space to house the Specimen inside with 100 mm clearance on both sides, with outlet for pressure measurement Specimen diameter shall be 100 mm. arraignment for soil placement. Pressure sensor, i.e. piezo transducer with a maximum pressure 50 kPa, least count 1 mm water head Inlet and outlet valves with non-corrosive pipe network Inlet Tank with 50 liter capacity with de-airing arrangement. Outlet tank with measuring device, i.e digital flow meter with accuracy of 1 ml/min with Data acquisition system. Arrangement for pumping of discharge water to pump to inlet tank. CO₂ supply, with regulator Digital Thermometer with attachment to Data acquisition system. Algae inhibitor / micro screen for filtration of water Computer system, required software for data acquisition.
Make	Clear mention Make in the bid
Electrical Supply Requirement	 Electricity supply requirements (voltage and phase) shall be clearly mentioned Mention in case of Requirement of UPS (Uninterrupted Power Supply) with capacity
Size and weight	 Mention area required for positioning of equipment. Mention total weight of the equipment. Mention specific requirement of foundation/pedestal for resting the equipment, if any. Mentioned need of vibration isolated, if needed
Water and air supply requirements	Mention the requirement to supply of compressed air, if any.Mention the requirement and arrangement of water supply, if any.
Compatibility of parts	• In case of accessories from make differing to the make of equipment, compatibility shall be checked and certified by the bidder.
Calibration Certificates, technical manual and SOP	 The calibration certificates shall be provided with equipment and accessories. Validity of calibration certificate for all devises shall not be less than one year. Technical manual and Standard Operating Procedure document shall be provided.