

Specifications of Equipment for Tender Bid cum Quotation

Name of Equipment/ Assembly	Shear box assembly for Pull-out Test Apparatus
Related Standards to be accorded	IS: 2720 (Part XIII)
Features/capabilities /Specifications	<ul style="list-style-type: none"> The apparatus shall enable testing for a sample size of 60 mm x 60 mm x 20 mm high samples in accordance with IS: 2720 (Part XIII) Loading frame with the loads for 0.5 kg/cm² to 5 kg/cm². With suitable mounts for horizontal and vertical displacement transducers. Water jacket/Flood container so to allow up to 15 mm displacement. Variable Speeds: Step variability from 0.01 mm/min to 5 mm/min Operation: Moment in forward and reverse direction Two set of grid plates (i) with perforation and (ii) without perforation shall be provided. Four set of porous stones Load cell (Tension/compression) 02 Nos. with Maximum Capacities respectively 2 kN and 5 kN with Sensitivity of 1% Displacement Measurement Devices Comprising – 02 LVDTs with 25 mm stroke length Data Acquisition System with data logging for atleast 10 set of tests Digital display for all parameters System password to be provided for calibration
Make	<ul style="list-style-type: none"> Clear mention Make in the bid
Electrical Supply Requirement	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Mention the requirement to supply of compressed air, if any. Mention the requirement and arrangement of water supply, if any.
Compatibility of parts	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> The calibration certificates shall be provided with equipment and accessories. Validity of calibration certificate for all devices shall not be less than one year. Technical manual and Standard Operating Procedure document shall be provided.