

**Specifications of Equipment for Tender Bid cum Quotation**

Name of Equipment/ Assembly	Creep Test Apparatus (Loading frame)
Related Standards to be accorded	IS 14739, ISO 13431, ASTM D5262
Features/capabilities /Specifications	<ul style="list-style-type: none"> <li>• Clamping systems for 200 mm wide sample with mechanical jaws in accordance with ASTM D5262, for geotextiles, geogrids, geomembranes, and geocomposites (with thickness up to 10 mm)</li> <li>• The gauge length of the sample shall be 200 mm.</li> <li>• A loading frame facilitating testing for 04 samples simultaneously.</li> <li>• Each sample shall have a facility to provide dead weight from 1 kN to 250 kN.</li> <li>• Mechanical system(s) for measurement of elongation for the length of 75 mm and 100 mm for each specimen at the centre of the sample. The measurement system shall be capable of measuring elongation using the digital dial gauge or LVDT having 25 mm capacity and 0.01 mm least count, i.e. one can use either digital dial gauge or LVDT at his/her will in the system. (In case the Digital dial gauge is used, the sleep time shall be avoided for continuous monitoring of data)</li> <li>• Vibration isolator shall be provided at the bottom of the frame.</li> <li>• Data Acquisition System with data logging for atleast 10 sets of tests</li> <li>• Digital display for individual displacements</li> <li>• System password to be provided for calibration</li> </ul>
Make	<ul style="list-style-type: none"> <li>• Clear mention <b>Make</b> in the bid</li> </ul>
Electrical Supply Requirement	<ul style="list-style-type: none"> <li>• Electricity supply requirements (voltage and phase) shall be clearly mentioned</li> <li>• Mention in case of Requirement of UPS (Uninterrupted Power Supply) with capacity</li> </ul>
Size and weight	<ul style="list-style-type: none"> <li>• Mention the area required for positioning of equipment.</li> <li>• Mention the total weight of the equipment.</li> <li>• Mention specific requirements of the foundation/pedestal for resting the equipment, if any.</li> <li>• Mention need of vibration isolation, if needed</li> </ul>
Water and air supply requirements	<ul style="list-style-type: none"> <li>• Mention the requirement to supply compressed air, if any.</li> <li>• Mention the requirement and arrangement of water supply, if any.</li> </ul>
Compatibility of parts	<ul style="list-style-type: none"> <li>• In case of accessories from make differing to the make of equipment, compatibility shall be checked and certified by the bidder.</li> </ul>
Calibration Certificates, technical manual and SOP	<ul style="list-style-type: none"> <li>• The calibration certificates shall be provided with equipment and accessories.</li> <li>• Validity of calibration certificate for all devices shall not be less than one year.</li> <li>• Technical manual and Standard Operating Procedure documents shall be provided.</li> </ul>