

Revised Technical Specifications of Cyclic Simple Shear Apparatus

Cyclic Simple Shear apparatus

Technical Specifications

S.No	Specifications
01	Load Type: Servo hydraulic Actuators
02	Normal Force: 10 kN or higher
03	Shear Force: 10 kN or higher
04	Accuracy : 0.1% or better
05	Operating Frequency: 5 Hz or better
06	Displacement resolution: Minimum 0.001 mm/16 bit or better
07	Axial displacement: Minimum +/- 25 mm or higher
08	Shear Displacement: Minimum +/- 15 mm or higher
09	Sample diameter: (a) 50 mm or 70mm (b) 100 mm
10	Computer interface: Ethernet/ TCP/IP/USB + advanced acquisition system software with real time monitoring provision during testing
11	Testing Standards: ASTM D6528
12	Specimen preparation Kit/Accessories for 50 mm or 70 mm, 100 mm diameter samples <ul style="list-style-type: none"> o Porous stones – 4 for each diameter samples o Latex rubber membranes – 100 numbers for each diameter samples o Membrane stretcher each diameter samples o Split moulds for each diameter samples o Fixing screws/clamps for each diameter samples o O-rings – 4 for each diameter samples o Silicon grease – 2 numbers having 250 grams o Filter papers – 1 Complete pocket for each diameter samples Additional essential items for specimen preparation
13	Installation and commissioning: Supplier/authorized engineer from the distributor
14	Demonstration: Authorized engineer from the manufacturer and should perform all the listed testing modules mentioned in SI.No 11
15	Comprehensive warranty: 1 year
16	Delivery timeline: 20 weeks from The Date of Receipt of Purchase Order.
17	Minimum 1 equipment with similar specification and better should be supplied to IIT/NIT/Government Organisations in the last 5 years.