

TECHNICAL SPECIFICATIONS

[The bidder shall fill the last three columns given below. Bidder's failure to provide the information requested in these columns may be a reason for the rejection of the bid. If any discrepancy is observed between the information provided by the bidder below and the other technical information attached to the bid, the information provided herein shall take precedence.]

1. Universal Testing Machine - 01 No.

Description	Specification			If No, Bidders response
Make				
Model				
Country of Origin	(Specify)			
Country of Manufacture	(Specify)			
Specification Details		Conformity		
		Yes	No	
Tensile Loading Capacity: 500 kN				
Compression Loading Capacity: 1000 kN				
Load measurement accuracy $\leq 1\%$				
Tensile jaws: Should have appropriate jaws to clamp specimen thickness more than 40 mm				
Distance between grips in Tensile Mode >300 mm				

Length of adoptable specimen in tensile mode >500 mm			
Length of adoptable specimen in compression mode>800 mm			
Ram travel in compression mode>300 mm			
Clearance between machine columns>600 mm			
Maximum Moving Speed: 200mm/min			
Should have effective resolution with Closed-loop			
Machine type: Electro Hydraulic Servo or any other equivalent system			
Number of channels for load sensors for pressure transducers, load cells and displacement transducers ≥ 8			
Power Supply: Should comply with Sri Lankan standards, should specify whether single or multi-phase needed			
Compatible software to control all the testing options remotely and includes real Time Management user interface environment allowing and able to connect PC			
Software should be included testing under load/stress control and displacement control (by using the displacement transducers supplied with the machine). Also real time monitoring of test data, stress/time, stress/axial strain, stress/lateral strain graphs.			
Enough Storage memory for single and multiple tests: specify			
Sampling rate> 100 per second			
Data transferring: USB Ports specify the numbers			

Front and rear fragment guard: Compulsory			
Machine compliance standards: EN 10002-1,EN 10002-2,N 10002-4, ISO6892, ASTM A370			
Complete training of the machine with all the testing should be carried out by the supplier and relevant samples			
Comprehensive Instructions manual in English Language			
Availability of spare parts from the manufacturer			
Manufacturer calibration certificate should be supplied. Also local calibration should be carried out and checked for the reliability of the readings			
Mounting, installation and complete demonstration should be carried out by the supplier			
<p>Accessories (Optional: specify the prices separately for each item)</p> <ul style="list-style-type: none"> ➤ Calibration load cell for the machine ➤ Distance pieces for compression testing ➤ Lower platens and upper platens with spherical seat: Specify the dimension: should be more than 500 mm ➤ Displacement transducers 50 mm: Should be compatible with the software and the machine channels hardware ➤ Displacement transducers 100 mm: Should be compatible with the software and the machine channels hardware ➤ Displacement transducers 150 mm: Should be compatible with the software and the machine channels hardware 			
Warranty: Total warranty of five years is required with minimum three years of manufacturer's warranty certificate.			

Bidder's Name & Signature:

Name of the Company:

Date and Company seal