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. Large Scale Tilting Flume - 01 No.

Description	Specification			If No, Bidders response
Make				
Model				
Country of Origin	(Specify)			
Country of Manufacture	(Specify)			
Specification Details		**Conformity**		
		Yes	**No**	
Rectangular prismatic flume for a wide range of experiments and demonstration on the topics of Open-channel flow, running waters, hydraulic engineering, coastal engineering				
Modular construction-supplied in pre-glazed section for rapid and easy assembly.				
Non-corroding durable materials used for water contacting surface.				

Working Width ≥ 300 mm			
Working Depth ≥ 450 mm			
Working Length - 10 m			
Self-circulated closed water circuit with water tanks, pump and flow meter.			
Level switches to turn off the pump when the maximum level in the inlet and outlet element is exceeded.			
Inverter system to electronic speed control for the flow channel pump			
Separated pumping system with no transmission of vibration between experimental section and pump.			
Transparent toughened glass side walls in the working length.			
Screw jacks provided to accurately adjust slope for tilted channel studies			
Bed type: Stainless steel or other equivalent rigid non-deflective material			
Maximum flow rate: 25 liters/sec			
Bed stability <1.0 mm			
Side wall stability <0.5 mm			
Bed slope: + ve slope 1:40 max & -ve slope 1:200 max			

Inlet and outlet: Corrosion-resistant. Design to reach optimum flow with less turbulent.			
Wave generator (Optional, specify the price separately): Electrically driven piston type. Computer control and data logging package with compatible software to operate the prime testing features. USB interface data transferring system.			
Power Supply: Should comply with Sri Lankan standards, should specify whether single or multi-phase needed			
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			
The mounting, installation and complete demonstration should be carried out by the supplier			
Accessories (Optional: specify the prices separately for each item) ➢ Hook and Point gauge ➢ Radial gate ➢ Sluice gate ➢ Venturi Flume ➢ Siphon weir ➢ V notch weirs			

➢ Direct reading flow meter ➢ Dam-spillway models ➢ Software control and data acquisition package ➢ Parshall flume ➢ Culvert ➢ Ogee crested weir ➢ Ogee crested weir with pressure measurement ➢ Element of energy dissipater ➢ Sill ➢ Trapezoidal flume ➢ Broad crest weir ➢ Pitot tube and manometer			
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