College of Engineering Trivandrum, Thiruvananthapuram

NOTICE INVITING TENDER

P5/4630/19/CET 27.09.2019

E-Tender ID :2019_DTE_304075_1

Tender No. :25/19/P5/CE/QIP

Purchase of permeability test setup, carbonation

depth measurement apparatus, heat of hydration

apparatus with software and dial gauge for Civil

Engineering Department of this institution.

Last date and time of receipt of tender on the

website (www.etenders.kerala.gov.in)

Superscription

: 24/10/2019 3 PM

Date and time of opening of tender : 26/10/2019 11 AM

Date upto which the rates are to be firm : 26/04/2020

Bidding fee : Rs.1770/-(Rs.1500/-+18%GST)

EMD required : Rs.10000/-

: THE PRINCIPAL, COLLEGE OF ENGINEERING

Address of the Officer to whom hard copy is TRIVANDRUM, THIRUVANANTHAPURAM-695016,

to be send.

KERALA

GSTIN:32AAAGC0358L1ZP

ITEM DESCRIPTION

CELEBRATING

SI. No.	Item and Specification	Quantity
	Permeability apparatus with compressor	
	List of materials:	
	Three cell model	
	To determine permeability of water through cement mortar and	
	concrete specimens of 150mm diameter cubes/cylinders.	
	A mild steel cell of square/round cross-section mounted on a stand	
	and a pressure chamber is connected to the cell through copper	
	tubing and T-connector mounted on the stand with sleeve packed	
1	valve and rubber hose pipe with end connections. The cell	1
	assembly consists of one base plate and one top plate connected	
	to nozzles. The pressure chamber is fitted with a pressure	
	regulator which helps in regulating the pressure from 0-15kg/cm	
	sq. Gauge is for indicating the water pressure in the cell.	
	Transparent burettes mounted on top of the apparatus. A foot	
	pump and a pressure tube are supplied to develop pressure in the	

	chamber. A measuring cylinder 500cc to measure percolated	
	quantity to water has to be supplied.	
	Carbonation depth measurement apparatus	
	List of materials:	
	Hole depth: maximum 40cm	
	Hole diameter: 10mm	
	Phenolphthalein: Sensitivity pH 8.3 to pH 10	
	Dimensions: 390 x 340 x 140 mm	
	Weight approx.: 3 kg	
	Picker to collect the powder. Bottom part of the ring ends in a	
	funnel that direct the powder to the relevant test tube.	
	Styrene acrylonitrile test tubes, 25 nos, 18 cm long and inside	
	passing width of 9 mm.	
2	Measuring ruler with graded notches in cm designed to fit into the	1
	hole and to measure powder collected in the test tube.	
	1% of alcoholic solution of phenolphthalein, range between pH 8.3	
	and pH 10 which determines a colour change to pink of the powder	
	not affected by carbonation.	
	Pasteur pipette to place phenolphthalein along the thin cut of the	
	test tube.	1
	Catridge of universal plaster for cement, 250g	
	Block of survey sheets.	
	Software for creating a technical report.	
	Spare kit with 25 test tubes, phenolphthalein solution, 250g	
	catridge of universal plaster has to be supplied	
3	Heat of Hydration with software	
	To determine the heat of hydration of a concrete mixture based on	
	the principle of semi - adiabatic calorimetry	
	HeatBox- 600 x 600 x 600 mm insulated box with a central space	
	for a 150 x 300 mm cylinder mold.	
	The system include a 2-channel datalogger and two temperature	1
	sensors to measure the concrete temperature and the ambient air	
	temperature.	
	Supplied complete with: Insulated container, 2-channel datalogger,	
	150 x 300 mm single- use mold, Single-use brass tube,	
	temperature sensors 2 nos., heat of hydration software with help	
	files.	
4	Dial gauge	
	Measuring range 0.5mm	1
	Least count 0.002mm	
	Total	

Terms and conditions:

- 1. Warranty -5 years onsite
- 2. Supplier should produce the brochure for the equipment
- 3. Items should be supplied in the Structural Engineering Lab of Civil Engineering Department
- 4. Equipment should have a proper operating manual
- 5. Custom duty exemption certificate will be provided

General conditions

- 1. The price quoted should be inclusive of all taxes, freight charges, unloading charges, installation and commissioning charges and should be furnished unambiguously.
- $\hbox{2.Payment: 100 \% after successful supply, installation, commissioning and demonstration.}$
- 3.Delivery Period: Maximum Delivery period will be 60 days from the date of receipt of supply order.
- 4. Agreement as per NIT 2 in Rs. 200/- Kerala Stamp Paper and tender form should be uploaded.
- 5.5% security deposit along with agreement should be furnished within a month/fortnight from the date of receipt of supply order.
- 6.Date of opening of tender: In case the proposed date declared as holiday, the tender will be opened on the next working day.
- 7.After E-Tendering the hard copy of all documents such as agreement, brochure,tender form should be submitted before the opening date.
- 8.Only GST registered firms can participate in the Tender.The firm under composition scheme must mention the words "Composition taxable person" in their quotation and should submit proof for that.
- 9. Necessary brochure should be attached.
- 10.No loading,unloading,transportation charges are allowed. the item should be installed/erected and demonstrated,if needed, free of cost.
- 11. The items should be delivered at the door, no loading, unloading, transporting charges etc. are allowed.
- 12. Copy of the order exempting EMD, tender cost etc. should be forwarded before opening date.

NB: The Tender procedure will be made as per Rules mentioned in the Revised Store Purchase Manual.

The bidders should participate this tender through E-Tendering System. Tender cost and EMD should be submitted only through online. For more details Contact Ph.0471 2577088, 0471 2577188, 0471 257388, 0471 2515772.

Sd/-

PRINCIPAL