

COLLEGE OF ENGINEERING PATHANAPURAM
ELIKKATTOOR P. O KOLLAM Pin 689696 Ph 04752022810 Fax 2225959

TENDER NO. E4-046/2026/PEC

DATED: 19.05.2026

TENDER FOR THE SUPPLY AND INSTALLIATION OF PERMEABILITY TESTING APPARATUS (CONSTANT HEAD AND VARIABLE HEAD) AND RELATIVE DENSITY APPARATUS WITH VIBRATING TABLE FOR THE CIVIL ENGINEERING DÉPATMENT OF COLLEGE OF ENGINEERING PATHANAPURAM

Containing General Conditions of Contract and schedule for the supply and installation of permeability testing apparatus (constant head and variable head) and relative density apparatus with vibrating table for the civil engineering department

Name of Tenderer:

Address:

Signature of Tenderer:

Last date and time for the receipt of tender: 3rd JUNE 2026, 1.00 PM

Last date and time for the opening of tender: 3rd JUNE 2026, 2.30 PM

Contractor


Principal

GENERAL CONDITIONS OF CONTRACT

1. Introduction

The terms and conditions given below shall form a part of the accompanying detailed technical specifications. The contract to be entered into shall be governed by these conditions and amendments thereto, if any.

2. Definitions

a) College: Means ("College of Engineering Pathanapuram Elikkattoor P. O. Kollam, Pin 689696") which shall include the Principal of the College duly authorized to act and sign on behalf of the college.

b) Principal: Means the Principal of the College of Engineering Pathanapuram Elikkattoor P. O. Kollam, Pin 689696. All letters & other communications sent to the College in connection with the contract shall be addressed to the Principal.

c) Site: College of Engineering Pathanapuram Elikkattoor P. O. Kollam, Pin 689696.

d) Tenderer/Supplier/Contractor: Means the manufacturer or the person or firm authorised by the manufacturer who is submitting the proposal/ tender.

3. Scope of Work

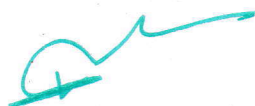
Supply, installation, testing and commissioning of the equipment as schedule attached to the tender notice or on other terms as agreed in the tender documents and subsequent orders/agreements issued/executed in this regard.

4. TENDER FORM

Tenders should be submitted in the prescribed form in sealed covers super scribing "**tender for the supply and installation of permeability test apparatus (constant head and variable head) and relative density apparatus with vibrating table for the civil engineering department of college of engineering pathanapuram**

" against Tender notification no. **TENDER NO. – E4-046/2026/PEC** so as to reach the PRINCIPAL, COLLEGE OF ENGINEERING PATHANAPURAM, Elikkattoor P O Kollam Pin 689696 on or before the last date & time as indicated in the tender notice along with DD for **Rs.708 (600+108)** including GST towards registration. No tender received after the due date and time will be accepted on any reason.

Contractor


Principal

The tenders should be submitted in Original. All the pages in the tender shall be fully signed by an authorized signatory of the company/firm making the tender and stamped with company/firm seal. Relevant authority of the signatories should be attached with the tender. The quoted price shall be valid for minimum 6 months from the date of tender opening.

5. Earnest Money Deposit (EMD)

The tender should be accompanied by an EMD for an amount equivalent to 1% of the quoted value in the form of a DD drawn in favour of the Principal, College of Engineering Pathanapuram payable at Pathanapuram. The tenders not accompanied by the requisite EMD will not be opened. The EMD of unsuccessful tenderers will be returned as soon as the formalities are completed. EMD of the successful tenderer will be adjusted against the Security Deposit. No interest will be payable on the EMD. If the successful tenderer fails to give Security Deposit within one week after the date of the purchase order or within a reasonable time as agreed by the college, his EMD will be forfeited. The EMD submitted by tenderers are liable to be forfeited in case the tenderer withdraws his tender or enhances the prices during the validity period.

6. Acceptance

The authority for the acceptance of the tenders rests exclusively with the Principal. The Principal does not undertake to accept the lowest or any particular tender or to assign any reason for the rejection of any tender.

7. Security Deposit

The successful tenderer shall, within a week from the date of intimation of the acceptance of his/their tender, submit a security deposit for an amount equivalent to 5% of the value of the contract for the faithful performance of the contract and for guaranteeing the performance of the equipment in the form of demand draft drawn in favour of the Principal from a reputed bank payable at Pathanapuram. This amount will be returned after the fulfilment of the contract. The EMD of the successful tenderer will be adjusted against the Security Deposit.

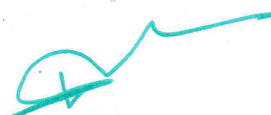
8. Agreement

The successful tenderer shall, after depositing the SD, execute an agreement with the Principal for the proper fulfilment of the contract as per the Performa attached as annexure. The accepted tender with all the enclosed schedules, copy of tender notice, conditions of contract and technical specifications, letter of award and purchase order shall form part of this agreement. The cost of all stamp papers for executing the agreement and legal expenses incident thereto shall be borne by the successful tenderer.

9. The supplier shall not assign/sublet to any person or persons the execution of the supply or any part thereof without the consent of the Principal, who shall have absolute power to refuse such consent and or to cancel the contract at any time if not satisfied with the manner in which contract is being executed.

10. In case the tenderer/supplier fails to supply any of the items ordered within the time provided for delivery, or the supplier commits any breach of the contract, it shall be lawful for the society to arrange for the purchase of the said items and things from elsewhere or to cancel the contract at the risk and cost of the supplier.

Contractor



Principal

11. No representation of enhancement or rates once accepted will be considered. The contractor/Supplier shall be responsible to make good any loss/damage of the equipment which has occurred during transportation without any extra cost to the College.

12. The College reserves the right to cancel the order in part or in full by giving one week advance notice by registered post if the supplier fails to comply with any of the terms of the order. The supplier becomes bankrupt or goes into liquidation of the creditor. Any receiver is appointed for the property owned by the supplier.

13. If upon delivery at site, it is found that the equipment/components (inspected and approved earlier or otherwise) are not in conformity with the specification, the same shall be rejected by the College and notification to this effect shall be issued to the supplier. The supplier shall arrange removal of the rejected items within 15 days failing which the College shall be at liberty to dispose off such rejected items in any manner as it may think fit. All expense incurred by the Society in disposing off the rejected items including money paid to the supplier shall be recoverable from the supplier.

Contractor



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14. Guarantee

The supplier shall ensure that all equipment/components/services supplied or services rendered under the contract shall conform to the academies requirements and specification. The supplier shall guarantee the equipment supplied and services rendered under the order for a minimum period of 1 year from the date of installation. The supplier replace any material, which has proved defective or failed to conform to the desired specifications, free of cost to the College, with minimum guarantee as stated above. In case the equipment supplied and commissioned by the contractor does not meet the performance requirements as per specifications and documents, the contractor shall be liable to pay COLLEGE, actual damages or compensation as assessed by COLLEGE.

15. Dispute

All disputes regarding this tender shall be settled by a process of mutual negotiation.

16. Acceptance of Terms & Conditions

The supplier must confirm their acceptance of the terms and conditions mentioned herein above.

SPECIAL CONDITIONS OF CONTRACT

1. Tender No- E4-064/2026/PEC of tender is prescribed in the tender notice.
2. Bidders shall specify the name, address of the original manufacturer and all technical specification of every item.
3. Bidders shall submit their offer as per the technical specification appended in their own proposal forms duly signed and sealed by the authorized signatory. The Tender form issued by us should also be enclosed to the proposal.
4. Prices for optional items if any should be quoted separately.
5. If there is any deviation in the technical spec. of the offered system in comparison with the technical spec. required by us, the same should be clearly mentioned in the proposal by the bidder.
6. Price quoted should include all taxes, transport, loading and unloading, installation and commissioning charges.
7. The quantity required shown in the tender notice is tentative. The final quantity to be supplied will be decided by COLLEGE, at the time of placing orders. The COLLEGE reserves the right to split the order for part quantity among two or more suppliers if necessary and the same rates as quoted /negotiated shall apply.
8. The equipment offered shall be guaranteed for minimum one year from the date of installation in the respective site.
9. Supply shall be made to The Principal of College of Engineering Pathanapuram.
10. Installation, Testing and commissioning shall be supervised by the Principal of the college or any other person designated by the principal and on the basis of the certificate of satisfactory completion from principal final payment to the supplier shall be effected. Part payment will be considered on the basis of the report of the Principal of the college.
11. The entire work shall be completed within 60 days of issue of purchase order.


Contractor



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12. **QUALIFYING REQUIREMENT FOR BIDDERS:** Bids will be accepted from the bonafide manufacturers/Agents or their direct authorized dealers only who have supplied at least tools and equipments worth Rs 1 lakh on a single order to Govt./Quasi Govt. agencies. If the bidder is the original manufacturer, he should be sourcing the components/part systems. If dealer, the valid authorization/dealership certificate should be produced. For agents necessary proof of agency should be produced. The bidders, for the maintenance of supplied systems should have adequate service facility in Kerala. The issue of these tender documents shall not be considered as evidence of acceptance by COLLEGE of the technical spec. and service competence of the tenderer. The decision of COLLEGE regarding the acceptability of the firm based on the documents submitted with the offer will be final and no correspondence will be entertained in this regard.
13. The Vendor should be original equipment manufacturer, Agent or authorized service provider of the item quoted. Proof of the same has to be provided along with the tender.
14. The vendor should also submit an undertaking that all the components/ parts/ assembly/ etc. used in the equipment are original new components from the respective manufacturer and that no refurbished/duplicate/second hand components/ parts/ assembly/etc. are used. If any of this is found during the contract period, the contractor shall remit the money received by him back to College of Engineering Pathanapuram.

Contractor



Principal

**Annexure
Agreement**

ARTICLES OF AGREEMENT executed on this the day of Two thousand and Twenty six
..... BETWEEN THE PRINCIPAL COLLEGE OF ENGINEERING PATHANAPURAM
(hereinafter referred to as the "the Principal") of the one part and

Shri.....

..... (H.E. Name and address of the
tenderer) herein after referred to as "the bounden" of the other part.

WHEREAS in response to the notification No. dated the bounden has submitted to
the Principal a tender for the specified therein subject to the
terms and conditions contained in the said tender.

WHEREAS the bounden has also deposited with the Principal a sum of Rs..... as earnest
money for execution of an agreement undertaking the due fulfilment of the contract in case his tender
is accepted by the Principal.

NOW THESE PRESENTS WITNESS and it is hereby mutually agreed as follows:-

1. In case the tender submitted by the bounden is accepted by the Principal and Contract for
..... is awarded to the bounden, the bounden shall within
..... days of acceptance of his tender execute an agreement with the Principal
incorporating all the terms and conditions under which the Principal accepts his tender.
2. In case the bounden fails to execute the agreement as aforesaid incorporating the terms and
conditions governing the contract the Principal shall have power and authority to recover from the
bounden any loss or damage caused to the Principal by such breach as may be determined by the
Principal by appropriating the earnest money deposited by the bounden and if the earnest money is
found to be inadequate the deficit amount may be recovered from the bounden and his properties
movable and immovable in the manner hereinafter contained.
3. All sums found due to the Principal under or by virtue of this agreement shall be recoverable from
the bounden and his properties movable and immovable under the provision of the Revenue Recovery
Act for the time being in force as though such sums are arrears of land revenue and in such other
manner as the Principal may deem fit.

In witness whereof Shri. (H.E.

Name and designation) for and on behalf of the College of Engineering Pathanapuram and Shri.
..... the bounden have hereunto set their hands the day and
year shown against their representative signatures.

Signed by Shri. (Date)

In the presence of witnesses

1.
2.

Signed by Shri. (Date)

In the presence of witnesses

1.
2.

Contractor


Principal

Specifications

1. Permeability Testing Apparatus (Constant head and Variable head)

IS:2720 (Part-XVII), IS11209 and IS 9198

Technical Specifications

1.1 General Requirements

- Apparatus shall be suitable for determining the coefficient of permeability of soils
- Construction: Non-corrosive materials (Brass / Gunmetal / Stainless Steel / Acrylic)
- Design: Rigid, stable, and suitable for laboratory use
- Complete unit with all accessories required for operation

1.2 Constant Head Permeability Setup

- Permeability Cell
 - Diameter: 75 mm and/or 100 mm (minimum one size mandatory)
 - Material: Transparent acrylic/metal
 - With provision for pressure tapping
- Constant Head Tank
 - Adjustable water head arrangement
 - Overflow system to maintain constant head
- Manometer System
 - Minimum 3 glass tubes mounted on a vertical scale board
 - Clearly graduated
- Drainage Arrangement
 - Top and bottom porous stones/discs
 - Drainage base and cap
- Measuring Accessories
 - Graduated measuring cylinder
 - Stop clock

1.3 Falling Head Permeability Setup

- Permeability Cell
 - Compatible with constant head setup
- Standpipe Arrangement
 - Transparent glass tube with graduation
 - Mounted vertically with scale
- Connection System
 - Airtight tubing and valves
- Measurement System
 - Scale for head difference
 - Stopwatch

1.4 Combined Unit Requirement (Mandatory)

- Single unit capable of performing both tests
- Interchangeable arrangement for constant and falling head
- Compact and user-friendly design

1.5. Accessories and Ancillary Items

The following shall be supplied:

- Porous stones (minimum 2 sets)
- Rubber/plastic connecting tubes
- Clamps and valves
- Graduated cylinders
- Thermometer
- All necessary fittings for complete operation

(2) Relative density apparatus with vibrating table

Technical Specifications

2.1 Vibrating Table (Electromagnetic / Motorized)

- Table Size: Approx. 500 mm × 500 mm (minimum)
- Construction: Heavy-duty steel platform
- Drive Mechanism: Electromagnetic or motor-driven eccentric system
- Frequency Range: 3000 ± 200 vibrations per minute (typical)
- Amplitude Control: Adjustable (manual/electronic control preferred)
- Power Supply: 230 V, single phase, 50 Hz
- Control Unit: On/Off switch with variable intensity (if available)
- Mounting: Anti-vibration rubber pads

2.2 Density Mold Assembly

- Cylindrical Mold Volume:
 - 1000 cm³ (standard) OR as per IS/ASTM requirement
- Material: Steel / Brass
- Components:
 - Detachable collar
 - Base plate
 - Extension piece (if required)

2.3 Surcharge Weight Assembly

- Annular surcharge weights
- Total surcharge load as per standard requirements
- Proper seating arrangement over soil specimen

2.4 Guide Sleeve and Loading System

- Guide sleeve for proper alignment
- Provision for controlled placement of surcharge weights

2.5 Dial Gauge / Settlement Measuring Device

- Least count: 0.01 mm
- Range: Minimum 25 mm
- With mounting bracket for fixing to frame

2.6 Funnel and Pouring Device

- Standardized funnel for uniform pouring of sand
- With shutter mechanism

2.7 Accessories

- Straight edge
- Tamping rod (if applicable)
- Spatula
- Measuring scale
- Sample trays
- Brush