

No.P2/4042/16

01.02.2017

Notice Inviting E-Tender

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| E-Tender No | : 05/16-17 |
| Superscription | : Purchase of Lab Equipments and Consumables for the Geotechnical Lab. |
| Last Date & Time of Receipt of E- Tenders (online – www.etenders.kerala.gov.in) | : 02/03/2017 , 3 pm |
| Date & Time of opening of E-Tender | : 06/03/2017 , 11 am |
| Date up to which the rates are to be firm | 30/06/17 |
| Cost of E-Tender | Rs. 1575/- (Tender fee Rs.1500 + VAT 5%) (Online remittance) |
| EMD Required | Rs.7698/- (Online remittance) |
| Address of the Officer to whom communications are to be sent | THE PRINCIPAL GOVT.ENGINEERING COLLEGE, BARTON HILL ,THIRUVANANTHAPURAM KERALA Ph-04712780121(Purchase Section) Email- purchase.gecbh@gmail.com |
| List of Items to be Supplied | For detailed specification , visit www.etenders.kerala.gov.in http://www.gecbh.ac.in http://www.dtekerala.gov.in |

Terms & conditions

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| 1 | Details of Requirement is separately attached |
| 2 | The price quoted should be inclusive of all taxes, freight charges, transportation, loading, unloading charges, installation etc |
| 3 | 5% security deposit along with agreement should be furnished within a month/fortnight from the date of receipt of supply order |
| 4 | Delivery- At Government Engineering College, Bartonhill, Thiruvananthapuram |
| 5 | Payment –Only after the satisfactory supply and installation/commissioning |
| 6 | A preliminary Agreement as per NIT 2 shall be prepared in Kerala Stamp Paper worth Rs.200/- and produced along with Tender documents |
| 7 | All amount payable is through Online remittance only |
| 8 | Hard copies of the tender documents shall be submitted before the date of opening of tenders. |
| 9 | Date of Opening- If the opening date is declared as a holiday the tenders will be opened on the next working day. |
| 10 | Tender documents are to be up loaded through E- tendering system. Tender cost and EMD should be remitted through net banking(Electronics Transfer only) |
| 11 | Warranty/Guaranty- On site warranty/Guaranty shall be specifically mentioned |

Sd/-
Dr. Shaji Senadhipan

Principal

Procurement of Equipments for GEOTECHNICAL ENGINEERING for the year 2016-17

| Sl.NO | Specification | Quantity |
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| 1 | Consolidation Test Apparatus, Single Cell Model.should comprises of a loading frame having capacity of 20 kg/cm ² with a loading yoke and lever arm complete with counter balancing adjustments. A fixed ring consolidation cell for a 60mm dia. x 20mm thick specimen, complete with two porous stones, pressure pad, cutting ring and acrylic tube water reservoir with tubing and connectors is provided. A set of weights is provided to give a stress of 10 kg/cm ² on a 60mm dia. specimen. Supplied complete with Dial Gauge 0.002 x 5mm travel. | 1 |
| 2 | Permeability Apparatus, (both variable and constant, IS 11209-1983). 1) Compaction permeameter Mould 1000ml capacity, clamped between top and bottom drainage plates having recess for porous stones. Supplied along with a false bottom plate for use during compaction of soil in the permeameter and extension collar. 2) Stand pipe panel, with three glass tubes of 6 mm, 10 mm and 20 mm dia, one meter long, supplied with wooden meter scale and 3 meter rubber tubing. 3) Steel over head tank, 400mm diameter x 1000mm height with one inlet and five outlet valves.4) Porous stones set for top and bottom drainage.5) Set of glass tubes fitted on panel. 6) Rammer light,2.6 kg x 310mm fall. 7) Rammer heavy, 4.89 kg x 450 mm fall. | 1 |
| 3 | Modified / Heavy Compaction Consists of 150 mm dia. X 2250 cc volume Mild Steel Mould with base plate & collar and 4.89 kg x 450 mm controlled fall steel rammer . | 2 |
| 4 | Sampling Auger. Post Hole type & Helical (Screw) type. Auger consists of auger head, one meter long rod, tee piece and a handle, 150 mm each type | 2 |
| 5 | Standard Penetration Test Apparatus:- the apparatus consists of - Tripod Stand with 5 meter long legs (in two pieces) complete with a tee bolt and pulley block or sheave. Drop Hammer as per IS : 2131 weight 65 kg with lifting eye. Guide pipe assembly with two end caps to give a free fall of 75cm for the drop hammer. Split Spoon Sampler with Brass Liner comprises of split barrel 50.8mm outer dia x 35mm inner dia x 610mm long, driving shoe for sampler made of hardened steel, head assembly having square thread suitable for 'A' type Drill Rod complete with ball type check valve. Type 'A' Drill rod 1 meter long. Supplied with manila rope 18mm dia. And 10mt. long. 'Spare' 'A' type drill rod, 1 meter long with adaptor each Dynamic Cone (Threaded), | 1 |
| 6 | Laboratory C.B.R. Apparatus As per IS: 2720 (Part XVI), motorised. It consists of Box Type (Covered Body type) Load frame 50 kN capacity, complete with Mild Steel mould 150mm dia x 175mm high, 2.6 & 4.89 kg mild steel rammer, 2.5 kg annular & slotted weight, Aluminium tripod, Penetration piston, Brass perforated plate with stem and lock nut, cutting collar and Circular spacer disc with detachable handle. Proving Ring of above 30 kN capacity , Dial Gauge for above, 0.01 x 25mm Govt. Calibration required for proving ring. | 2 |

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| 7 | Lab Vane Shear Test App, Motorized. Consists of a torque head adjustable in height by means of a lead screw rotated by a drive wheel to enable the vane to be lowered into the specimen. Rotation of the vane is done through motor, which operates a worm gear arrangement turning the upper end of a calibrated torsion spring. The vane shaft is attached through the hollow upper shaft to a resettable pointer, which indicates the angle of torque on a dial graduated in degrees. The dial reading multiplied by spring factor gives the torque. A set of springs, one each of approx. 2 kg-cm, 4kg-cm and 8kg-cm | 1 |
| 8 | Cone Penetrometer, As per IS: 2720 (Part V), The apparatus is used to determine the liquid limit of soil which have low plasticity index. The moisture percentage contents determined when cone with half angle of 30° under a total sliding weight of 148gm penetrates 25mm in soil sample gives the liquid limit. The Apparatus is supplied complete with standard cup of dimension 50mm dia x 50mm depth. (Hand operated) scale type. | 1 |
| 9 | Digital Weighing Balance:- 100kg capacity and 0.1g resolution , 60cm x 60cm platform size, zero tracking, auto tare, overload warning, backlit display, power rating 230V,50Hz AC | 2 |
| 10 | Electronic Balance:-6 kg capacity, with 0.001g accuracy platform 250mm x190mm with zero tracking, auto tare, overload warning, backlit display, power rating 230V,50Hz AC | 2 |
| 11 | Core Cutter Apparatus Cutter is made of steel 100mm dia. x 130mm long with steel Dolly 25 mm high and 100 mm dia., fitted with a lip to enable it to be located on top of the core cutter. Supplied complete with rammer. | 2 |
| 12 | Pycnometer ,Comprises of 1 Kg honey capacity glass jar with brass cone, locking ring & a rubber seal. | 2 |
| 13 | Integral type proving rings made of steel with dial gauges 0.002mm least count, supplied with calibration charts. Repeatability as per IS 4169 ,5760, 50,10 and 5 Kn | |
| a | 50kN | 1 |
| b | 10kN | 1 |
| c | 5kN | 1 |
| d | 2.5kN | 1 |
| 14 | Triaxial Apparatus a) Load Frame, motorised, capacity 50kN to give 6 rates of strain b)triaxial cell for 38mm dia and 76mm high specimen for lateral pressure upto 10kg/cm ² (0-150) psi.Supplied complete with a plain perspex disc 38mm dia, pair of porous stone for 38mm dia , a split type mould for 38mm dia specimens, a sheath stretcher , a rubber sheath and four rubber 'O' rings c) Lateral pressure assembly 10kg/cm ² , with pressure gauge and foot pump each d) pore pressure apparatus for measurement of low negative and positive pore pressures, high pore pressures upto 10kg/cm ² e) self compensating constant pressure system (oil/water type) pressure range 10kg/cm ² rotated through reduction gear | 1 |