



**BIHAR POLICE BUILDINGS CONSTRUCTIONS CORPORATION**  
(A Govt. of Bihar Undertaking)  
Kautilya Nagar, Patna- 14

**www.bpbcc.co.in, Phone No.0612-2223727, Fax No.-0612-2224529**

**Re-Quotation Invitation Notice no.- 08/2017-18**

Open quotations are invited in two bids system in sealed envelope from reputed manufacturer or, their authorised dealers meeting the qualifying criteria given in annexure I for supply & Installation of machines & equipments related to testing of soil for **Quality Control Laboratory** at the head Quarter office of the BPBCC, Patna.

Details of required equipments along with their specifications etc. are given in annexure-II and may be seen on our website [www.bpbcc.co.in](http://www.bpbcc.co.in).

The sealed envelopes in two bids system with technical bid and financial bid putting them into one envelope with title of the quotation should be received in the office of undersigned latest by **3 p.m. on 28-08-2017**.

The undersigned reserves all rights to accept or reject one or, all quotations without assigning any reason.

  
18/8/17 for Chief Engineer

## Annexure-I ( TECHNICAL BID)

1. The bidder must be reputed manufacturer or, their authorised dealers having accreditation certificate from National Accreditation Board for testing and calibration laboratory.
2. The bidder should have ISO:9001: 2000 certification or, equivalent.
3. All the equipments/ machines as detailed in the Financial Bid should conform the standards (IS/BS/DIN/ASTM etc.) as mentioned in the respective items of supply.
4. The bidder must have service centre at Patna or, near by Patna for convenient mentainance of machines sypply.
5. The bidders has to submit the following necessary documents as well :-
  - (a) The Quotation must be accompanied with resigtration certificate.
  - (b) GST registration from competent authority.
  - (c) Earliest lincome Tax return for previous contineous 3 years (2013-14,2014-15, 2015-16 & if possible 2016-17).
6. The bidder/ their authorised dealers submitting Quotations must have completed supply of equipments/ machines for Soil Testing Laroratries to Govt./Semi-Govt./Reputed Technical Institutions/ Organisations of about 15 Lac or, more under single order in any one Financial Year of last three years.

The Technical bid shall be evaluated and the bidders meeting the above qualifiacations will be short listed. Only Financial Bids of the short listed bidders will be opened and the lowest bid will be considered for the order of supply.

## BIHAR POLICE BUILDINGS CONSTRUCTIONS CORPORATION

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REQUIRED MACHINES/EQUIPMENTS FOR SOIL TEST  
DETAILS OF ITEMS & SPECIFICATION WITH QUANTITIES

Sl. NO.	Type of Machines/Equipments	Unit	Quantity	Rate	Amount in Rs.	Remarks
<b>1. SUPPLY &amp; INSTALLATION OF MACHINES/EQUIPMENTS</b>						
1	Hand Operated Extractor 38mm dia specimen consist of sample extractor frame (Screw type with a wire sample trimmer) Jarring Link (for driving the sampling tube) Adapter with locking screw (for fitting the 38mm dia sampling tube to Jarring Link) Split Mould (38mm dia x 76 mm long, provided with quick release clamps.), Sampling Tube-1 No (Unrelieved, 38mm dia x 200 mm Long) Complete set as per IS specification.	Per Set	1.00			
2	Liquid Limit Device, Hand Operated, with Casagrande grooving tools and gauge block etc ref. as per IS : 2720 (Part-V), IS:9259, complete set.	Per Set	1.00			
3	Plastic Limit set comprising of glass plate, Brass rod, Spatula, Moisture Tin & Porcelain Dish etc ref. as per IS : 2720 (Part-V), 1985, complete set.	Per Set	1.00			
4	Universal Penetro Meter, Digital Type New Type for Soil and Bitumen testing ref. standard IS: 1448 (Part-60) IS:1203	Per Set	1.00			
5	Direct Shear Test Apparatus 2 KN capacity, with IS: 2720 (Part-13) specifications along with Shear Box Assembly, This assembly comprises of Plane Gripper Plate Perforated Gripper Plate Porous Stone Top loading Pad Base Plate Shear Box Housing with two linear bearing case with steer Specimen cutter Surcharge Weights to attain normal stress of 3 Kg/ cm <sup>2</sup> Operation : Motorised Rates of Strain : 1.25, 0.625, 0.25, 0.125, 0.05, 0.025, (mm/min) 0.01, 0.005, 0.002, 0.001, 0.0004, 0.0002 Specification Size : 60 x 60 x 25 mm This surcharge weight set comprises of following weights: 0.05 kg/cm <sup>2</sup> : 4 Nos. 0.10 kg/cm <sup>2</sup> : 1 No. 0.20 kg/cm <sup>2</sup> : 1 No. 0.50 kg/cm <sup>2</sup> : 3 Nos. 1.00 kg/cm <sup>2</sup> : 1 No. Compression - Tensioin proving Ring, 2 KM capacity 1 No. Dial Guage 0-25 x 0.01 mm 2 Nos.	Per Set	1.00			
6	Universal Automatic Compactor with mild steel, compaction mould as per IS specification ref. standard IS:2720 (Part 7 & 8).	Per Set	1.00			

	<p>Laboratory California Bearing Ratio Test Apparatus, Motorised with Load Frame four speed with Mild Steel Mould. Ref. Standards IS:9669, IS:2720 (Part XVI), BS 1377:1924, EN 13286-4, ASTM D 1883, AASTHO T 193. Equipment consisting of :Load frame, 50kn capacity with Horizontal Clearance- 265mm, Vertical clearance -700mm, Maximum Plated dia -157 mm with Hardness of material (platen):60 RHC, Maximum platen travel-100mm, Four Speed in mm/min, properly painted.</p> <p>Frame Stiffness:- Approx 100 kn/mm</p> <p>Material of Construction: Special quality low carbon mild steel. (Carbon-16% - 17%)</p> <p>Mould- MS 150mm ID x 175 mm H, Perforated Base Plate-MS.</p> <p>Extension Collor - MS 150MM ID x 50 mm high Penetration Piston 50mm face dia.</p> <p>Adjustable Bracket for Penetration Dial Guage, Circular Metal Spacer Disc, with detachable handle, 148 mm dia x 47.7 mm high, Annular Metal weight 2.5 kg, 147mm dia with 53 mm dia slot.</p> <p>Perforated Plate 148 mm dia, with adjustable stem and lock nut.</p> <p>Metal Tripod for Dial Gauge, Cutting Collor,</p> <p>Rammer 2.6 Kg, 310mm controlled drop.</p> <p>Rammer 4.9 Kg, 450mm controlled drop.</p> <p>Proving Ring capacity 50 kn</p> <p>Dial Gauge 25mm travel, 0.01 mm least count.</p> <p>Load frame Pillar thread M30 x 600mm.</p> <p>Suitable for operation on 220v, 50 Hz, single phase AC supply. It must be table top machine.</p>	Per Set	1.00			
8	<p>Sand Pouring Cylinder Apparatus, 100mm dia. Ref Standard IS:27720 (Part 28) Sand Pouring Cylinder fitted with Conical Funnel and shutter, capacity 3 litre . Cylindrical Calibration Container 100mm ID x 150mm height Metal Tray size 30x30x4 cm, with 10cm central hole</p>	Per Set	1.00			
9	<p>Triaxial Test Apparatus, Analog, with Ref Standard IS 2720 (Part XII) IS:2720 (Part 11) &amp; (Part 12) Load Frame, Motorised, 390 speeds, 50 kn, Triaxial Cell, Stationary Bushing, 38mm dia with Top loading pad, Perspex, 38mm dia 1 No. Plain Perspex disc 38 mm dia x 6 mm thick.</p> <p>Porous Stone 38mm dia x 6 mm thick .</p> <p>Sheath stretcher for 38 mm dia specimen</p> <p>Two way split former for 38 mm dia specimen</p> <p>Rubber sheath for 38 mm dia specimen</p> <p>Drainage tube (Short), 38mm</p> <p>Drainage tube (Long), 38mm</p> <p>'O' Rings for 38 mm dia specimen</p> <p>Split Mould, 38 mm dia</p> <p>Top loading pad 38 mm (Plain)</p> <p>Proving ring 2.5 Km capacity</p> <p>Constant pressure system oil water type</p> <p>Pore pressure apparatus having:- Pressure Gauge Bourdon Tube type, Graduation : 1.0</p>	Per Set	1.00			
10 (a)	Mild Steel, Zinc Plated CBR Mould 150 mm ID x 175 mm	Each	5.00			
10 (b)	Mild Steel, Zinc Plated Perforated base Plate for M.S.Mould	Each	5.00			
10 (c)	Mild Steel, Zinc Plated Extension Collar 150 mm ID x 50 mm high	Each	5.00			
11 (a)	Sampling Tube 38 mm	Each Pair	14.00			
11 (b)	Sampling Tube 50 mm	Each Pair	14.00			
12	Thermo State Water bath size- 600 mm x 300 mm x 175 mm	Each	2.00			
13	Concrete Mixer, Pan type Capacity 40 L, 440 V 3-Phase, 2 HP, 960 RPM ( 910 mm x 875 mm x 1250mm)	One Set	1.00			

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