DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

At. Po. Lonere, Tal. Mangaon, Dist. Raigad 402 103 MS (www.dbatu.ac.in)

INVITATION FOR QUOTATION

Our Ref No.: DBATU/Civil Engg. /TRE Lab Equipment's /2020/ 1633 Date: ~~27~~ 29/10/2020

Quotation for Supply of TRE Lab Equipment's Due On: 11/11/2020

Date of Opening: 12/11/2020 Time: 3.00 pm

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To,

Sub: QUOTATION FOR THE SUPPLY OF TRE Lab Equipment's

Dear Sir,

Your quotation for the items listed overleaf, may please be submitted to the under signed, so as to reach this Office not later than 12/11/2020. While submitting your quotation, the following procedure
may please be observed and other points borne in mind.

01. The maker's name must be specified.
02. The "Terms and Conditions" for supply and delivery of stores, should be clearly indicated in the quotation, stating whether rates are, inclusive of all taxes, Packing and forwarding charges Freight charges, etc. or not, however rates offered as including all taxes will be more welcome.
03. If packing and forwarding charges are to be charged separately, it should be so clearly stated in your quotation.
04. Please mention clearly whether consignment would be Ex-Godown, Ex-Shop, of F.O.R. dispatching stations. Preferably terms offered as "Delivery of consignment of stores, on F.O.R.
05. Envelope should be clearly marked with our reference No and date of this quotation. It should also be superscripted as per the format given above.
06. The quotation would be opened as per date and timing given above, if desired by you, you may depute an authorized representative with a letter of authority to be present at the time of opening of the quotation at this Office on the aforesaid day, date & time.
07. Your quotation must be valid for a minimum 30 (Thirty) working days from the date of it's opening.
08. Quotation received after the date of opening may not be taken into consideration.
09. Items tendered should confirm to the specification shown in the attached list when and where, full or no specifications are indicated against items in the list. Kindly furnish your full specification in accordance with accepted standards against each item tendered. Where reference to catalogue is made, the relevant catalogues/ Pamphlets/ Literature should accompany the quotation.
10. Your quotation should be for all new items and not for second hand and should be submitted as per standard format of Quotation Submission attached herewith.
11. Please state whether items will be available Ex-Stock. If not the minimum period for delivery, or for supplying the items or stores.
12. It should be clearly stated whether **GST, Insurance, Freight or packing** and forwarding charges, or any other taxes and duties, etc. leviable.
13. It would be appreciated if illustrated catalogues/Literature etc is furnished with the quotation.

14. Expression to as "Complete with standard Equipment" complete with standard accessories "Equipment to" As good as should be avoided. If at all their use is unavoidable then it should be very specifically indicated as to what exactly they mean and what exactly would be supplied under them. Any ambiguity or vagueness should be avoided.
15. For convenience, kindly adopt while quoting the same serial Nos. as given in the list detailed below.

Thanking You.

Yours faithfully,

29.10

Registrar

Dr. Babasaheb Ambedkar Technological University,

List of Items

Sr. No	Description / Specification	Make	Approx. Qty.
01	Technical Specifications of TRE Lab Equipment's are attached as a separate sheet	-	-

Technical Specifications for TRE Lab Equipment's

Sr. No	Name of Equipment	Specification	Qty.
1	**Automatic Standard Penetrometer** **(As Per IS: 310, 1203, 1448, IP: 60, 49, 50, ASTM: D5, D217, D637)**	• It consists of a vertical pillar mounted on a base provided with levelling screws. The head, together with dial plunger rod and cone (or needle) slides on a pillar and can be clamped at any desired height. • A rack and pinion and pointer assemble provides fine adjustment of needle or cone tip to sample. It incorporates a clutch mechanism which makes reading of penetration and subsequent resetting a simple and accurate operation. • The dial is graduated in 400 1/10 and the millimeter subdivisions and the needle pointer against figures makes easy reading. Supplied with a bitumen penetration needle, ring weight one each 50 grams, and two sample containers. • Supplied with transistorized timer and electro-magnet incorporated in the clutch mechanism to accurately control penetration time to exact five seconds • **Accessories:** Penetration cone for empirical estimation of penetration of lubricating grease, petroleum jelly etc.	1
2	**Softening Point Test Apparatus (Ring and Ball Apparatus)** **(As Per IS: 1205-1985, IP: 58/63)**	• The apparatus consists of steel bracket with a sliding plate support. That support has two holes of 10 mm diameter on which a Ring and Ball guide can be kept. • A Central hole on this plate is for inserting thermometer. Supplied with a glass beaker approximate 8.5 cm. I.D., 12 cm high and a hand stirrer and 2 nos. 9.5 mm diameter steel balls.	1
3	**Pensky Marten Flash Point Apparatus** **[As Per IP- 34and IS: 1448 (Part I) 1209]**	• Used for finding out Flash Point above 70°C and below 300°C. • The apparatus consists of brass test cup with handle removable cup cover with spring operated shutter having oil test jet. • Unit is fitted with a stirrer with flexible shaft. The assembly is kept on round shape electric heater. • Temperature is controlled using energy regulator. Suitable for operation on 220 Volts 50 cycles AC Circuits. • Supplied with Thermometer IP 15C (-5 to 110°C) & 16C (90 to370°C)	01
4	**Ductility Testing Apparatus** **(As Per IS: 1028 - 1958, ASTM: D113, IP 32, 55)**	• The apparatus consists of a Water bath with a thermostatic heater, and a circulating pump to maintain uniform water temperature. • One half of the briquette moulds is fixed on a fixed plate in the water bath, the other half of the briquette mould is fixed to a carrier which slides over a rotating threaded shaft with a clutch. • The motor and gears to rotate the shaft are housed in a cabinet fixed above the other and of the bath. • A pointer fixed to the carrier moves over a scale graduated from 0-110 cm x 1mm fixed on the bath with "0" (zero) of the scale towards the fixed plate slide. The rotating shaft has 2 speeds of travel for the bracket, 5 cm/min. and 1 cm/min, selected by a clutch. • Water bath inside is aluminum, it is an insulated water bath. Water bath is provided with a drain. • A heater with thermostatic control is fixed inside the water bath. Control switches for motor, stirrer, heater and indicator lamps are fixed at a convenient place on the water bath. • Complete with three briquette moulds and one base plate, all made of brass. Operates on 230 Volts A.C. single phase. • **Accessories:** 1. Thermometer IP 38 C, range 23°C to 27°C 2. Ductility mould with base plate.	1

5	**Standard Tar Viscometer**	• The apparatus consists of bath with cup of 10 mm or 4 mm orifice and sleeve stirrer with ball lifting clip and ball. • The bath is fitted with an immersion heater to take the water to the required temperature and a drain valve. T • The temperature is controlled by energy regulator. The assembly is kept on suitable stand with levelling screws. • Suitable to operate on 220 V.50 Hz, AC single phase.	1
6	**Density Basket (As Per IS:2386, Part III)**	• Made of brass with stainless steel wire mesh 6.3mm size ruggedly constructed, approximately 20cm diameter x 20cm high. Complete with handle.	1
7	**Aggregate Impact Testing Machine** **(As Per IS: 2386, Part - IV)**	• Apparatus consists of base weighing between 20-30 kg with a lower surface of not less than 30 cms and support columns to from a rigid frame work around the quick release trigger mechanism to ensure an effective free fall of the hammer during test. • The free fall can be adjusted through 380 + 5.0 mm. The hammer is provided with a locking arrangement. • A metal tup (hammer) weighing 13.5 to 14.0 kg, the lower end of in cylindrical shape, 100 mm in diameter and 5 cm long with a 2 mm chamfer at the lower edge and case hardened. • Complete with a cylindrical cup, 102 mm diameter X 50 mm depth, one measure 75 mm diameter X 50 mm deep and a tamping rod of circular cross section 10 mm in diameter and 230 mm long, rounded at one end.	1
8	**Aggregate Crushing Value Test Apparatus**	• Apparatus consists of 15cm diameter M.S. Cylindrical container 150mm ± 0.5mm X 130mm to 140mm high with base plate 200 to 230mm square X 6mm thick. • A plunger of 148mm ±0.5mm diameter X 100 to 115mm high. Supplied complete with tamping rod, 16mm diameter X 600mm long, one end rounded. • Cylindrical metal measure 11.5cms diameter and 18cms height fitted with handle.	1
9	**Benkelman Beam (As Per AASHTO T 256)**	• Lightweight Aluminum construction, Ease of Transportation Unique Telescopic Design Simplifying Field set up, Compact, and Thereby reducing the amount of storage space needed. • Benkelman Beam utilizes the technique of using balanced beam in conjunction with a suitable vehicle to measure road flexure. • The improved Benkelman Beam is a convenient, accurate device for measuring the deflection of flexible pavements under moving wheel loads. • Operating on a simple lever arm principle, supplied with carrying case.	1
10	**Platform Weigh Balance**	• **Capacity: 200kg, Accuracy**: 20gm, Stainless Steel Platform, Platform Size: 600mm * 600mm	1

Technical Specifications Shown above are checked and verified by the Technical Committee of the Department

User Member Head, DoCE

Format of Quotation Submission

(In Letter Head of Supplier with seal)

Date: _____

To,

_____

_____

Sr. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	GST and other taxes payable	
						In %	In figures (B)
				Total Cost			

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs _____ (Amount in figures) (Rupees_____amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier
Name:_____
Address:_____
Contact No: _____