



TENDER DOCUMENT (C)

FOR SUPPLY AND INSTALLATION OF VARIOUS TOOLS/EQUIPMENTS OF HYDRAULICS LAB
AT POLYTECHNIC, BANGALORE.



**LAST DATE & TIME OF SUBMISSION
OF TECHNICAL-CUM- FINANCIAL BIDS**

**16-12-2016
at 11.00 a.m.**

**DATE & TIME OF OPENING OF
OF TECHNICAL-CUM- FINANCIAL BIDS**

**16-12-2016
at 11:30 a.m.**

**Cost of Application Rs. 500/-
EMD Rs.6000/-**

TERMS AND CONDITIONS

1. The tenders are invited for the supply and installation of equipment and related items for Hydraulics Lab at MANUU Polytechnic, Bangalore in sealed envelopes.
2. Bidders must be Original Manufacturers / Government Organization / authorized dealers / reputed firm and should have service after sale at Bangalore and to furnish the addresses of service centers with telephone number along with technical-cum-financial bid.
3. The Govt. firm, ISO/ ISI certified firms / OEM will be preferred; however the firm should enclose valid ISO / ISI certificate, TIN / PAN certificate if any.
4. The technical-cum-financial bid should be submitted in sealed envelope to the **Principal**, MANUU Polytechnic, 8th Cross, 1st Stage, 3rd Block, Nagarbhavi, Bangalore - 560072 by **16-12-2016** on or before **11:00** a.m. Tenders received after due date and time will not be considered. The technical-cum-financial bid will be opened on the same day at **11.30** a.m. in the presence of vendors or their authorized representative. The representative should bring the authorization letter from their vendor to attend the tender opening committee meeting.
5. The filled-in tender form without requisite **EMD of Rs. 6000/- and tender form cost of Rs.500/-** (even if the tender form is downloaded from University Website www.manuu.ac.in) will not be considered and both are to be drawn separately, in favour of MANUU payable at Hyderabad.
6. The Technical-cum-Financial Bid should be accompanied with an EMD as per rule. The EMD of unsuccessful bidders will be returned without any interest. The EMD of the successful bidder will be returned without any interest after the receipt of performance security.
7. 90% payment of the purchase order will be released after satisfactory supply, installation of the equipment to the satisfaction of the University/Institute authorities and balance 10% payment will be retained as performance security and later released after completion of warranty period or against submission of the bank guarantee of the same amount (i.e. 10%) to cover the warranty obligations for the supplied equipments. The performance security shall be released after a period of 60 days beyond the warranty period.
8. Total value is to be quoted both in figures and in words.
9. Detailed specifications, make, model, catalogue/literature of all the items quoted should be supplied with the technical-cum-financial bid. Incomplete Bid / inadequate specification etc., in any respect are liable to be rejected.
10. The company should indicate the financial turnover during the last three years. Legible photocopy of orders of different organizations booked during the last one year should be attached.
11. The rates quoted in technical-cum-financial bid against each item should be inclusive of all taxes, levies, octroi, freight, insurance, transportation, forwarding, installation, labour charges etc.
12. All the equipments should be with onsite comprehensive warranty for minimum period of one year or as per OEM (Original Equipment Manufacturers) warranty period, whichever is later after satisfactory installation and agreed by the University/Institute.
13. The firm should attend the fault within 24 hrs from the booking time and during warranty to attend the fault free of cost.
14. Each firm should clearly specify that the tenderer agrees to abide by the conditions of this tender document on their printed letter head.
15. The firm has to provide training to the Institute staff at free of cost to the satisfaction of the University/Institute.
16. The firm has to quote as per the required specification, however higher configuration can be

considered by the University.

17. The supply and installation has to be made within a period of six weeks from the date the issue of Purchase Order by the University/Institute. In case, the firm fails to supply the equipment in the specified time, 0.5% value of the unsupplied items for every week as late supply charges may be deducted from the bill to the maximum of 10% after which the order may be cancelled and Earnest Money deposited will be forfeited.
18. For award of purchase order, the item level rates will be compared and not the total value of the bid. Further, without any purchase commitment, inspection/demonstration should be arranged in Bangalore at the cost of the supplier for the quoted items. Upon examining the samples, if it is found that the samples are not of requisite specifications or quality is not to the satisfaction of the authorities, the same shall not be considered for purchase even if it corresponds to the least price among all bids.
19. Item offered in the tender can be re-ordered at the same rate, terms & conditions within a period of twelve (12) months.
20. All pages of the tender document are to be signed and stamped by the tendering firm in agreement of the terms and conditions of the tender and attach the same along with the technical-cum-financial bid.
21. The University reserves all rights to reject or accept any tender without assigning any reason or cancel or withdraw the tender notice.
22. The University / Institute reserves the right to place part / full order against the items chosen from a given bid.
23. If at any time, any question, dispute or difference whatever shall arise between two parties upon or in relation to or in connection with this Tender document, either of the parties may give to the other notice in writing of the existence of such question, dispute or difference and the same shall be referred to two Arbitrators one to be nominated by the First Party and the other to be nominated by the Second Party. Such a notice of the existence of any question dispute or difference in connection with this Tender document shall be served by either party within three months of the beginning of such dispute failing which all rights and claims under this Tender document shall be deemed to have been forfeited and absolutely barred. Before proceeding with the reference the Arbitrators shall appoint/nominate an umpire, in the event of the Arbitrators not agreeing in their award, the Umpire appointed by them shall enter upon the reference and his award shall be binding on the parties. The venue of the arbitration shall be at Hyderabad (Telangana, India). The Arbitrators/Umpire shall give a reasoned award.
24. The provision of the Indian Arbitration Act in force and of rules framed there under and any statutory modifications thereof shall be deemed to apply and be incorporated in this Tender document.
25. Upon every or any such reference, the cost of any incidentals to the reference and award(s) respectively shall be at the discretion of the Arbitrators or in the event of their not agreeing, of the Umpire appointed by them may determine the amount thereof or direct the same to be fixed as between solicitors and client or as between parties and shall direct by whom and in what manner the same shall be home and paid.
26. The courts at Hyderabad alone will have the jurisdiction to try any matter, dispute or reference between the parties arising out this Tender document. It is specifically agreed that no court outside and other than Hyderabad courts shall have jurisdiction in the matter.

Place: Bangalore

Date:

Sd/-.

Registrar

Maulana Azad National Urdu University

Requirement and specification of Hydraulics Lab Equipment:

Sl No	Particulars	Specification	Qty. Reqd.
1	Bernoulli's theorem apparatus (with technical manual)	Compact, robust & stand-alone setup comprising of the following (but not limited to): 1. Inlet tank of suitable capacity 2. Supply Tank (optional) of suitable capacity 3. Measuring Tank of suitable capacity fitted with Piezometer Tube & Scale 4. Piezometer Tubes: Material P.U. Tubes (suggested) 5. Pump: A 220 volt AC, 0.5 HP, single phase monoblock ISI pumpset (suggested) with suitable pipe fittings, strainer foot valve, and switch 6. Piping: GI / PVC Size BSP (suggested) 7. Stop Watch: Electronic 8. Sump Tank of suitable capacity Floor Area: Limited to 2 x 1 m	1
2	Discharge over notches apparatus (with technical manual)	Compact, robust & stand-alone setup with self – contained water re-circulating unit (suggested) provided with a centrifugal pump and comprising of the following (but not limited to): 1. Channel Test Section: Size 600x250x180 mm (suggested) 2. Notches: Material Brass a. Rectangular Notch b. 45 deg. V Notch c. 60 deg. V Notch d. Trapezoidal Notch 3. Hook / Pointer: With Vernier Scale 4. Water Circulation: FHP Pump (of reputed brand with ISI specifications) 5. Flow Measurement: Using Measuring Tank of suitable capacity with Piezometer. 6. Sump tank of suitable capacity 7. Stop Watch: Electronic 8. Control Panel: On/Off Switches, Main Indicator etc. Floor Area: Limited to 2 x 1 m	1
3	Orifice and mouthpiece apparatus (with technical manual)	Robust apparatus designed to measure the co-efficient of discharge of orifice & mouthpiece, comprising of the following (but not limited to): 1. Supply Tank - 0.4 X 0.3 X 0.5m height (suggested) 2. Orifice - 8mm, 10 mm and 12 mm (suggested) 3. Mouthpiece (a) L/D = 1, 2.5 and 4 (suggested) (b) Bordas mouthpiece (c) Converging diverging mouthpiece. 4. X-Y gauge for orifice jet co-ordinates. 5. Measuring tank of suitable capacity. 6. Sump tank of suitable capacity. Floor Area: Limited to 3 x 2 m	1

Technical-cum-financial bid against requirement of Hydraulics Lab in Tender (C): To be utilized by the bidder to quote their prices item wise.

SL No	Items with specification	Qty Reqd.	Make & Model	Unit Rate	Tax %	Total Value (Including taxes & all charges etc)	Variation in specification, if any (to be filled by the firm)
1	<p>Bernoulli's theorem apparatus (with technical manual)</p> <p>[Compact, robust & stand-alone setup comprising of the following (but not limited to):</p> <ol style="list-style-type: none"> 1. Inlet tank of suitable capacity 2. Supply Tank (optional) of suitable capacity 3. Measuring Tank of suitable capacity fitted with Piezometer Tube & Scale 4. Piezometer Tubes: Material P.U. Tubes (suggested) 5. Pump: A 220 volt AC, 0.5 HP, single phase monoblock ISI pumpset (suggested) with suitable pipe fittings, strainer foot valve, and switch 6. Piping: GI / PVC Size BSP (suggested) 7. Stop Watch: Electronic 8. Sump Tank of suitable capacity <p>Floor Area: Limited to 2 x 1 m]</p>	1 no.					
2	<p>Discharge over notches apparatus (with technical manual)</p> <p>[Compact, robust & stand-alone setup with self –contained water re-circulating unit (suggested) provided with a centrifugal pump and comprising of the following (but not limited to):</p> <ol style="list-style-type: none"> 1. Channel Test Section: Size 600x250x180 mm (suggested) 2. Notches: Material Brass <ol style="list-style-type: none"> a. Rectangular Notch b. 45 deg. V Notch c. 60 deg. V Notch d. Trapezoidal Notch 3. Hook / Pointer: With Vernier Scale 4. Water Circulation: FHP Pump (of reputed brand with ISI specifications) 5. Flow Measurement: Using Measuring Tank of suitable capacity with Piezometer. 6. Sump tank of suitable capacity 7. Stop Watch: Electronic 8. Control Panel: On/Off Switches, Main Indicator etc. <p>Floor Area: Limited to 2 x 1 m]</p>	1 no.					

3	<p>Orifice and mouthpiece apparatus (with technical manual)</p> <p>[Robust apparatus designed to measure the co-efficient of discharge of orifice & mouthpiece, comprising of the following (but not limited to):</p> <ol style="list-style-type: none"> 1. Supply Tank - 0.4 X 0.3 X 0.5m height (suggested) 2. Orifice - 8mm, 10 mm and 12 mm (suggested) 3. Mouthpiece (a) L/D = 1, 2.5 and 4 (suggested) (b) Bordas mouthpiece (c) Converging diverging mouthpiece. 4. X-Y gauge for orifice jet co-ordinates. 5. Measuring tank of suitable capacity. 6. Sump tank of suitable capacity. <p>Floor Area: Limited to 3 x 2 m]</p>	1 no.					
Total Value: (in words)							

Warranty details

Items	Sl. No.	Warranty Period in years

Declaration: It is hereby declared that the firm has carefully read and understood the tender document and hereby agrees with all the clauses, terms and conditions therein.

Place:
Date: 2016

Authorized signatory of
the firm along with seal