

भारतीय प्रौद्योगिकी संस्थान तटरुपतत Indian Institute of Technology Tirupati Settipalli, Renigunta Road Tirupati 517506	दूरभाषसंख्या Phone no: 0877 – 2500335 ईमेल Email : govindak@iittp.ac.in
---	--

Prof. T.S. Natarajan
Registrar i/c

Ref: Engineering Unit
Date: 02.11.2017

Public Tender No: IITT/Civil/06/2017/18

Due Date: 12.12.2017 at 3.30PM

Dear Sir/Madam,

On behalf of the **Indian Institute of Technology TIRUPATI**, sealed quotations are invited in two part bid system for supply of following items for **IIT Campus near Merlapaka Village, Venkatagiri Road, YERPEDU Mandalam, Chitoor District, Andhra Pradesh.**

- | | |
|--|-------|
| 1. Hydrostatic Pressure Apparatus | 1 No. |
| 2. Flow over Weirs and Notches (with hydraulic bench) | 1 No. |
| 3. Advanced Hydrology Investigations | 1 No. |
| 4. Additional accessories: 600 kgs. Of Grade II sand to be supplied along with equipment | |

The detailed specifications of the above items are given in the Annexure "A". Technical literature/leaflet showing the compliance of the specification may also be attached with the quotation.

Please ensure that the specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected /supported by the printed technical leaflet/literature. Non-compliance of the above shall be treated as incomplete/ambiguous and the offer can be ignored without giving an opportunity for clarification/negotiation etc. to the bidder.

The eligibility criteria for participation in bid are mentioned below:

1. The Bidder must be an Original Equipment Manufacturer (OEM) or his Authorized Dealer/Authorized Distributor/ Authorized Stockiest. The bidder should submit the list of installations of the model being quoted in India and supplied to IITs, reputed organization in the last 2 years along with proof of supply by providing copies of Purchase Orders and also performance certificates from clients with contact address and telephone numbers.
2. Bidder should be registered under **GST** Act with the relevant State Sales Tax Authorities. The bidder should furnish along with the bid document, the relevant **GST** Registration Document and PAN / TAN copies.

Instructions to the Bidder

(i) **Preparation of Bids:** The bidders must ensure that bids are submitted in **two part bid system (i.e.) Technical bid and Financial (Price) bid in separate envelopes.**

(ii) **Techno-commercial bid:** The technical bid should consist of all technical details/brochures along with commercial terms and conditions super-scribed as TECHNICAL BID with Tender No. and date and time of closing and the bidder's name and address. No prices should be included in technical bid. The Earnest Money Deposit @ 2% of quoted value must be sent along with technical bid either in the form of Demand Draft and Bank Guarantee payable at Tirupati.

(iii) **Financial (Price) Bid** should indicate item-wise prices for the items with firm and fixed rates in figures and words super-scribed with the Tender No. and date of closing of the Tender with name of supply/work and the bidder's Name and address. The price bid should not contain any conditional clauses. No price escalation for any reasons whatsoever is allowed. All prices should be given in Indian Rupees only.

(iv) The technical and the financial bids duly signed by the bidders or their authorised signatories with name and seal should be put in separate covers and sealed. Both sealed covers should be put into a bigger cover duly super-scribed with PT No. and due date/time with name of supply /work. **Technical bids must either be spiral bound / stapled together. No loose sheets will be accepted. All pages must be numbered.**

(v) **Submission of the tender:** The complete sealed bids in all respects shall be sent to the following address well in advance either by post or by courier so as to reach this office before the due date and time specified in the Schedule. The bids received after closing date and time shall not be considered. The Institute shall not be responsible for the late receipt of tender on account of postal, courier or any other delay.

The Registrar I/C,
Indian Institute of Technology Tirupati,
Renigunta Road,
Settipalli Post,
Tirupati-517 506, Andhra Pradesh

While submitting the bids, the bidders must sign all the tender documents as a token of accepting of tender documents as well as terms and conditions stipulated therein. Tender documents without signature of bidders or their authorised signatories will be treated as invalid bids.

No conditional offer or terms and conditions will be entertained by the institute and such bids will be treated as invalid.

(vi) The tender documents can be down loaded from IIT Tirupati web site:<http://iittp.ac.in/tenders> on or after 22.11.2017.

(vii) Bid Security (EMD): EMD either in the form of Bank Guarantee or Demand draft at 2% of quoted value initially valid up-to 90 days drawn in favour of Indian Institute of Technology Tirupati payable at Tirupati must be sent along-with the technical bid only. The technical bid without EMD would be considered as UNSOLICITED and will be REJECTED. Photo/FAX copies of the Demand Draft/Banker's pay orders will not be accepted. No interest will be paid for the EMD and the EMD (Bid Security) will be refunded to the successful bidder on production of Performance Bank Guarantee and in case of unsuccessful bidders, the EMD will be refunded on finalisation of tender.

(viii) Central PSUs/PSEs/Autonomous Bodies, Micro and Small Enterprises, Khadi and Village Industries Commission, National Small Industries Corporation are exempted from payment of EMD.

(viii) Details of our Banker

Name of bank	State Bank of India
Address of bank branch	Settipalli Branch Renigunta Road, Tirupati
Bank Branch code	006677
IFS Code	SBIN0006677
Bank Account Number	35523338208

- (ix) Bid security be forfeited without any intimation in such cases as below:-
- If a bidder withdraws its bid during the period of bid validity
 - If a successful bidder fails to execute the awarded contract
 - If a successful bidder fails to provide performance Bank guarantee

- (x) Specifications must be as required and specified in our tender documents and no modifications to the specifications are acceptable during the course of execution of contract.

(xi) Opening of the tender: The Technical Bids will be opened by the tender committee duly constituted in the presence of bidders or their authorised representatives on 12.12.2017 at 16.00 hours. **The technical bid without EMD will not be entertained and treated as invalid bid.** Then the bids will be evaluated by the Technical Evaluation Committee which will decide the suitability of the technical bids as per our requirement and terms and conditions. Once the technical evaluation is completed, the price Bids of only those bidders who are found technically acceptable will be opened in the presence of Authorized Representatives of such bidder(s) if any on a date and at a venue to be intimated by IIT Tirupati to the short listed bidders.

(xii) The bidder shall note that any unsolicited post-tender reduction by them would disqualify them from participating from the bidding and forfeit the security bid.

(xiii) Incomplete bids are liable for rejection.

(xiv) Prices: The price should be quoted on FOR: IIT, Tirupati basis. The bid should consist of basic price, P&F charges, freight and applicable taxes. The percentage of tax & duties should be clearly indicated.

The total landed cost will be calculated from the information provided by the bidder in their price bids. The bid conforming to the lowest cost would then be considered for award of contract.

If the offer does not contain tax details, it will be treated that your offer is inclusive of all taxes and happen stand lowest, you are bound to supply as per offered rate without taxes and no revision is entertained.

If the tenderer offers discount it should be in clear terms and percentage.

(xv) The custom duty if any applicable must be shown separately. It may be noted that IIT Tirupati is exempted from payment of custom duty and duty at concessional rate against duty exemption will be paid.

(xvi) IIT Tirupati reserves the right to split and award item-wise contract to the lowest bidder.

(xvii) Offer validity: The offer must be valid for 90 days from the closing date. If the validity of offers for acceptance is less than 90 days, the same will not be considered.

(xviii) IIT Tirupati reserves the full right to accept / reject any tender or all tenderers at any stage without assigning any reason.

Yours sincerely,

Registrar, IIT Tirupati

Important Commercial terms and conditions:

- a) The due date for the submission of the tender is **12.12.2017 at 15.30 hours.**
- b) **Inspection Clause:** All major items will be inspected by a team of IIT Tirupati at factory/ Supplier's premises and after clearance in the form of report, the items shall be despatched to IIT Tirupati. Readiness of items shall need to be intimated well in advance for our inspection formalities.
- c) **Delivery Schedule:** Please note that delivery is the essence of the contract. In case there is any deviation in the delivery schedule, liquidated damages will be levied for the delayed supply period. Therefore, it should be ensured that all the ordered items should be supplied within **Two months** from the date of receipt of Purchase Order on door delivery basis at our Institute as per Purchase order terms in securely and sufficiently packed condition by following standard packing procedure to withstand transit damages
- d) **Extension of time:** If the supply of stores is delayed due to reason of force majeure such as acts of God, acts of public enemy, acts of Government, fires, floods, epidemics, quarantine restriction, strikes etc., supplier shall give notice within 15 days to Institute in writing of his claim for an extension of time. The Institute on receipt of such notice after verification, if necessary, may agree to extend the Contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract.
- e) **Payment terms:** No Advance payment will be made for Indigenous purchase. Our normal payment terms are 100% within 30 days after receipt of complete supply at our site and acceptance.
- f) **Performance Bank Guarantee:** Performance Bank guarantee for 10% of Purchase order value should be produced in the form of Bank Guarantee from the nationalised /scheduled Bank valid till the completion of warranty / guarantee period plus sixty days as claim period. Failure to render contracted service during the warranty/guarantee period by the contractor, the performance bank guarantee will be forfeited. No interest is payable on the performance Bank guarantee amount.
- g) **Liquidated damages:** If the Contractor fails to deliver the material within the time specified in the Contract or any extension thereof, the Institute shall recover from the Contractor as Liquidated Damages at the rate of 0.5% of order value per week or 0.5% of the value of the stores for which the delivery is delayed for each week of delay as the case may be subject to a maximum of 10% of the order value.
- h) **Guarantee/Warranty:** The Contractor shall guarantee that the material supplied shall comply fully with the specifications laid down, for material, workmanship and performance after acceptance of the material. Warranty should be for a period of one year. In case of Authorized distributor / Authorized dealer, they should submit the warranty certificate from manufacturers in addition the Warranty offered by the supplier. If any defects are

discovered therein or any defects therein found to have developed under proper use arising from faulty stores design or workmanship, the Contractor shall remedy / replace such defective items at his own cost.

- i) **Insurance:** IIT Tirupati being a Central autonomous body under Ministry of HRD, Government of India, we will not insure our goods. However, to safe guard the ordered material from probable transit damage while in transportation, the contractor may insure the goods at his risk and cost.
- j) **Do not quote the optional items or additional items unless otherwise mentioned in the tender documents / specifications.**
- k) **ARBITRATION CLAUSE:** Arbitration in the event of any dispute or difference arising under these terms & conditions or any condition contained in the Purchase Order or in connection with this contract(except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Registrar, IIT, Tirupati or of some other person appointed by him and the dispute further processed in terms of the Arbitration & Conciliation Act ,1996. There will be no objection that the arbitrator is a Government Servant that he deal with matter which the Contract relates to or that in the course of his duties as Government Servant has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract.

If the arbitrator is the Registrar, IIT, Tirupati

- i. In the event of his being transferred or vacating his office by resignation or otherwise , it shall be lawful for his successor in office either to proceed with the reference himself for to appoint another person as arbitrator, or
- ii. In the event of his being unwilling or unable to act for any reason, it shall be lawful for the Registrar, IIT, Tirupati to appoint another person as arbitrator.

If the arbitrator is a person appointed by the Reistrar, IIT, Tirupati – In the event of his denying or neglecting or refusing to act, or resigning or being unable to act, for any reason, shall be lawful for the Reistrar, IIT, Tirupati to proceed with the reference himself or to appoint another person as arbitrator in place of the outgoing arbitrator subject, as aforesaid , to the Arbitration & Conciliation Act ,1996, and the rules there-under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceeding under the clause. The Arbitrator shall have the power to extend with the consent of the purchaser and the contractor the time for making and publishing the award. The venue of Arbitration shall be the place as the purchaser in his absolute discretion may determine work under the Contract shall, if reasonably possible, continue during Arbitration Proceedings.

- l) All amendments, time extension, clarifications etc., if any will be uploaded in the website only and will not be published in newspapers. Bidders should regularly visit the above

website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

Acknowledgement: It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

**SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE
COMPANY WITH DATE**

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI

HYDRAULICS & WATER RESOURCES LAB EQUIPMENT SPECIFICATIONS

1. HYDROSTATIC PRESSURE APPARATUS

Description of apparatus: The apparatus must consist of a transparent, tilting water tank with a scale for measuring the volume of water. The angle of tilt must be measurable with another scale. The tilting tank must be mounted on a lever arm with a pivot. The hydrostatic force that acts on the tank causes a moment about the pivot. This moment is balanced by weights added on the other end of the arm, and thereby the hydrostatic force can be estimated.

SPECIFICATIONS/REQUIREMENTS	
Tank Capacity	1.5 – 2 Liters
Inclination angle of tank	0 – 90 ⁰
Measurement scale on tank	0 – 250 mm
Effective cross-sectional area of tank on which hydrostatic force acts	Maximum 75 x 100 mm
Maximum length of lever arm	240 – 260 mm
Weights	Combination of weights

2. FLOW OVER WEIRS AND NOTCHES

Description of apparatus: This experimental setup is used to measure discharge over weirs and notches using a hydraulic bench.

SPECIFICATIONS/REQUIREMENTS	
Material for weir	PVC
Overall dimension of weir plates	Length 220 – 240 mm, Width 180 – 200 mm, Thickness 8 – 10 mm
Dimensions of rectangular notch	Length x Width: 50 – 60 mm
Dimensions of V-notch weir	Angle - 90 ⁰ , Height 50 mm
Level gauge range	0 to 200 mm
Level gauge positioning	Position can be adjusted anywhere along the experimental flume

HYDRAULIC BENCH

SPECIFICATIONS/REQUIREMENTS	
Pump	Submersible pump with Power consumption 240 - 260 W

Max head		7.5 – 8 m
Max flow rate		140 – 150 Liters/minute
Storage tank capacity		170 – 190 Liters
Measuring Tank Capacity	High flow rates	35 – 40 Liters
	Low flow rates	8 – 10 Liters
Stop-watch		

3. ADVANCED HYDROLOGY INVESTIGATIONS

Description of apparatus: This experimental setup is used for investigating advanced hydrological processes including impact of varying rainfall on discharge from basins, storage capacity of soils, seepage, groundwater flow and sediment transport.

SPECIFICATIONS/REQUIREMENTS	
Experiment Tank	Stainless Steel of dimensions 2 m x 1m, depth of 0.2 m, inclination adjustment up to 5%, should allow maximum sand filling of up to 0.3 m ³
Precipitation Nozzles	Stainless Steel, Eight numbers that can be switched in groups of 2 nozzles each
Flow rate of precipitation nozzles	1 – 4.5 L/min or better with a square spray pattern, time of precipitation must be adjustable with a timer
Groundwater wells	At least 2 wells with open seam tubes
Pillars	3 models - round, square and oval
Pump	Power consumption 0.55 kW, with a maximum flow rate of 1500 Liters/hour or better
Storage Tank	Stainless steel with a capacity of 220 Liters or better
Outlet Tank	Must allow both water and sediment flow to be measured
Water Level measurements	At least 15 tube manometers that can measure up to 300 mm of water column
Supply Flow rate	0 – 1050 Liters/hour
Drain Flow rate	0 – 1000 Liters/hour
Sediment measurement	0 – 5000 grams
Data logging and Software	System should include the data-logging software

Additional Accessories

1. 600 kgs of Grade II sand to be supplied with the equipment

