Sealed tender are invited in Two-bid System in two separate sealed envelopes (one for Technical specifications and the other for Commercial offers) from eligible Indian manufacturers/suppliers or foreign manufacturers through their Direct Indian Agents for the supply of the following equipment.

If any Indian Agent quote on behalf of Foreign Principal, in that case, as per GFR Rule, vendor registration number from DGSD under Ministry of Commerce, Government of India, and copy of business agreement are to be submitted along with quotation (in the Envelope containing the Technical Bid) failing which the quotation would not be considered.

- Both the envelopes must be sealed and should clearly be marked on top of envelope about type of envelope (i.e., technical/price bid), tender reference no. and name of agency submitting the bid. The technical bid should not have any price indication.
- These two envelopes, mentioned above, must be in a larger envelope with tender reference number and name of the agency clearly written over it.
- Bids, those are not following two-bid system, will be cancelled.

Please send offers, along with descriptive catalogue/brochure. The validity of the bid should be at least 120 days from the last date of submission. Please ensure that your quotation reaches this office not later than 8th June, 2015 at 15:00 hrs at the following address:

Prof. P. K. Das  
Head of the Department  
Mechanical Engineering Department  
Indian Institute of Technology Kharagpur  
Kharagpur 721302, West Bengal, India.

Last Date of Submission of Quotation : 8th June, 2015, 15:00 hrs  
Validity : 120 days from the last date of submission
### Specifications of heating circulatory water bath with Accessories

1. **Working fluid**  
   Water  
2. **Working temperature range**  
   ambient to 100 °C  
3. **Temperature stability**  
   ±0.02 °C  
4. **Setting / display resolution**  
   0.1 °C  
5. **Temperature Display**  
   LED  
6. **Heating capacity**  
   2-3 kW  
7. **Pump capacity flow rate with control**  
   15 -30 l/min  
8. **Pump capacity flow pressure**  
   0.45 -0.6 bar  
9. **Minimum filling volume liters**  
   13  
10. **Ambient temperature**  
    25...35 °C  
11. **Temperature controller**  
    yes  
12. **External circulation pump**  
    yes  
   (To circulate heated water to external equipment)  
13. **Internal circulation**  
    yes  
14. **Accessories**  
    insulated pipe connection

**Description:** -Water bath should be capable of circulating water continuously through some external load with total heating capacity of 2-3kW. Water bath should have the temperature controller to set the maximum temperature. The temperature range of the water bath is from room temperature to 100 °C, for water as the circulating fluid some additive to water it should be possible to maximum temperature up to 150 °C. Bath should be also equipped with adjustable cut-off for the safety purpose and drain valve for cleaning the bath. Bath tank and cover should be made of corrosion-resistant (stainless steel) material.
Techno-commercial conditions

A. Interested original equipment manufacturers or dealers or agents may submit their quotations in two bid systems (technical and commercial).

B. Warranty – minimum 3 years from the date of installation and commissioning at the site.

C. Scope of supply should include free installation, commissioning and training at site.

D. Please provide list of such supplied systems in India and abroad both in academics and industry.

E. Validity of the quotation should be 120 days from last date of submission.

F. In the technical bid, vendors have to give a technical compliance certificate along with the technical literature.

G. Compliance statement is to be submitted as per our technical specification. Claim for compliance should be traceable to your brochure. Please mention page number etc. of your brochure for easy traceability.

H. Commercial bid is to be provided in clearly marked separate sealed envelope.

I. If any Indian Agent quote on behalf of Foreign Principal, in that case, as per GFR Rule, vendor registration number from DGSD under Ministry of Commerce, Government of India, and copy of business agreement is to be submitted along with quotation.

J. Last date of submission of sealed quotation is 8th June, 2015, 15:00 hrs.

K. The envelop should have the following number on the top and submitted to the office of

<table>
<thead>
<tr>
<th>IIT/ME/ENQ/GDY/PKD/2015</th>
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<tr>
<td>Head of the Department</td>
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<tr>
<td>(Attn: Prof. P. K. Das)</td>
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<tr>
<td>Department of Mechanical Engineering, I.I.T. Kharagpur,</td>
</tr>
<tr>
<td>West Bengal-721302</td>
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L. Regarding this purchase, the decision of the Director would be final and binding.

M. Payment terms for foreign firms: 100% payment through irrevocable L/C

N. Payment terms for Indian firms

a) 100% payment through electronic transfer or A/c payee demand draft after receipt of store in good order and condition. Generally payment is released after certification of bill which typically takes 15 days.

b) Ensure mentioning

i) Bank details of the beneficiary and PAN number

ii) Full name and address of the beneficiary on whom order has to be placed