

No. F5(865)ST/MNIT/Chem/2019

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NOTICE INVITING QUOTATIONS

1. REGISTRAR MNIT, JLN Marg, Jaipur invites sealed tenders for the supply of **“Hydrodynamic Cavitation (HC) Reactor”** for **Chemical Engineering Department** of this Institute in **Single bid system**. As per schedule given below

Event	Date & Time
Download of Tender	12.07.2019
Bid submission	05.08.2019 by 2.00 PM
Quotation will be opened at	05.08.2019 at 3.00 PM
Earnest Money	Rs.11,000/- in the name of The Registrar, MNIT and payable at Jaipur (Kindly attached the RTGS details with cancelled cheque along with the Earnest Money)

Quotation must be enclosed in a properly sealed envelope addressed to the MNIT, Jaipur with kind attention to Deputy Registrar (S&P), MNIT, Jawahar Lal Nehru Marg, Jaipur -302017 by designation and not by name. The quotations must be super scribed “Quotations for the supply of **Hydrodynamic Cavitation (HC) Recator** ----- as called for in Tender Notice No. ----- dated _____” DUE ON----- AT -----AM/PM. The Quotation must reach on or before -----AM/ PM on or before the due date and time mentioned in the tender notice/tender document. The documents must be dropped in the tender box available in Central Store during office hours (9.30am to 6.00pm) on all working days. Bids delivered to any other place or any individual shall not be considered as valid document. Quotations sent by e-mail will not be considered valid. Tender documents may be downloaded from institute’s web site www.mnit.ac.in and CPPP site <https://eprocure.gov.in/epublish/app>

2. **THE RATES QUOTED SHOULD BE F.O.R. JAIPUR inclusive of all charges related to transportation from your end to MNIT, Jaipur in local currency. For imported items, the rates are to be quoted FOR destination (MNIT, Jaipur) only. In case the rates are quoted CIF/CIP New Delhi, then it will be the responsibility of the supplier to intimate us well in advance prior to dispatch and submission of all the relevant documents in time which will be required in clearing the consignment from Custom. If, there is delay in sending the documents and demurrage is imposed, then it will be in the account of foreign supplier. Kindly note that if any amendment is required in LC, after its establishment, the Bank Charges in this respect will be in the account of beneficiary only.** The rates and units shall not be overwritten. Quotations shall always be both in the figures and words. The words “No quotations” should be written across any or all of the items in the schedule for which a tender does not wish to tender.
Cost of each item should be quoted separately giving the unalterable delivery period. Rates of imported goods must be quoted excluding custom duty & GST as this institution is exempted from payment of custom & GST.

3. As far as possible, quotations should be given for goods of India manufacture which are readily available. Foreign goods quoted and proposed to be supplied should be covered by normal import quota of the dealer. This institute is exempted from payment of custom duty.
4. Detailed specifications and "make" of each item should be clearly given supported by the illustrated pamphlets wherever possible. Quotations without specifying the make and other particulars may be rejected. The accessories included in the equipment should also be clearly mentioned.
5. Losses or damage in transit will be in to the account of the supplier in case of rates **F.O.R. JAIPUR**. The supplier may, if he so desires, get the goods insured and include such charges in the tendered rate.
6. The payment for the ordered items would be made after the articles have been received and found in order. **Payment will be made by RTGS. Kindly send the RTGS details and cancelled cheque along with the Invoice. The payment to foreign supplier will be made through FDD/Wire Transfer OR Letter of Credit as the case may be.**
7. Your rates should be valid at least for three months from the last date of opening of bid.
8. All legal proceedings, if necessity arises to institute may be any of the parties (Institute or Contractor/Supplier) shall have to be lodged in the courts situated at Jaipur and not elsewhere.
9. The institute is not bound to accept the lowest tender and may reject any tender or any part of the tender giving justification for such an action.
10. The quotations should preferably be sent duly typed.
11. (a) The Penalty Clause is as under :-

If the seller fails to deliver any or all of the Goods/Services within the original /re-fixed delivery period specified in the Purchase Order, this Institute will be entitled to deduct/recover the Liquidated Damages for the delay at the following percentage:

(i)	Delay up to one month	1%
(ii)	Delay exceeding one month but not exceeding two month	2%
(iii)	Delay exceeding two month but not exceeding three month	5%
(iv)	Delay exceeding three month	5% for each month and part there of subject to maximum 10%

- (b) In case of failure to supply the goods within the prescribed time and in accordance with the specifications give in the Quotations, the institute shall be free to cancel the order and make purchases from the next higher tenderer or from the open market as the case may be. In that case the loss sustained by the institute shall be recovered from the defaulting supplier. The institute will be at liberty to recover the loss from the permanent earnest money/or any other pending claims of the supplier without prejudice to its general right to affect recovery from the supplier.
12. The prospective bidders can be those who are the manufacturers of the equipment. For items manufactured outside India, the manufacturer itself can be a bidder or its authorised Indian agent can bid on behalf of its Principal that is the manufacturer.
13. In the event, the country of origin of goods is India, only the manufacturers shall be considered eligible for bidding. Authorised agents of Indian manufacturers may be permitted to submit the bid, provided the concerned manufacturer states that as its policy, it does not bid itself in India and that there is no qualitative difference between manufacturer and its agent as bidder in respect of quality of

supplies, cost, and responsibility of maintenance and servicing. The Indian manufacturer must describe the alternatives in clear terms, in the event the bidding agent ceases to continue as agent of the concerned manufacturer within the stipulated warranty period.

14. If any Indian manufacturer requires importing an essential part from a foreign country, the said company may be given to enjoy the benefit of customs duty exemption with the aid of CDEC of MNIT, Jaipur provided the import of the concerned item is done on behalf of MNIT, Jaipur.

15. **Quotation will be submitted in the following manner:**

- a) Bidder shall enclose Earnest Money Deposit (EMD).
- b) Bidder must be a manufacturer/authorized distributor/ Dealers must enclose a certificate of authorization of manufacturer with the bid.
- c) All Indian agents of foreign company must provide valid proof that they are the agent in India on behalf of the manufacturer; any proof without due certification from the manufacturer under their own letter head shall be void *ab initio*.
- e) One declaration by the Manufacturer to the extent that in case of failure of its local agent /office to provide service support to the satisfaction of MNIT Jaipur, it shall make immediate arrangement for required service support.
- f) **Bidder should enclose technical compliance from the Manufacturer. The specifications of items should be strictly as specified. Deviation, if any may please be mentioned separately. If there is no deviation than it should be mentioned as “No Deviation”.**
- g) The leaflets catalogue, related to quoted equipment/model etc. should be sent invariably, so that a proper evaluation of the equipment offered is possible.
- h) Mention must be made of the pre-installation requirements for the equipment quoted viz. ambient temperature, humidity, weather specifications, power specifications, civil works etc. When items are provided full performance satisfaction should be demonstrated.
- i) Bidder must enclose the acceptance of terms and conditions and must enclose the duly signed and stamped tender document.
- j) All the Annexure enclosed should be duly filled up and signed.
- k) Please attach proof/certificate of each condition required in the tender document.

16. **Delivery Period:-** The ordered quantity of stores must be delivered within 6 to 8 weeks in the case of indigenous equipment and 14 to 16 weeks in the case of imported equipment, F.O.R. Destination MNIT, Jaipur at Supplier's Risk within the period specified and got inspected as the delivery of store is required urgently and as such the renderers should quote their earliest delivery period accordingly. The extension of delivery period after placing the PO, if required, will be considered only on genuine reasons and proper justifications only.

17. **Installation:** - Successful BIDDER shall depute concerned specialist, for supervision of erection & commissioning of the machine to be carried out as and when necessary. The successful BIDDER shall make necessary arrangements during the entire warranty period at their own expenses for stay, transport and other expenses of their specialist during their stay in Jaipur;

18. **Performance Bank guarantee**
Successful Bidder has to Provide Performance security @ 10% of the equipment cost, valid for 01Year + 60 days in the form of Bank's Guarantee from a commercial bank within 15 days from the date of issue our Purchase Order.
19. EARNEST MONEY: A Demand Draft/Banker's Cheque or Bank Guarantee of Rs. 11,000/- from a Commercial bank only in the name of the Registrar, M.N.I.T. and payable at Jaipur may please be sent along with your tender as Earnest Money **without which no tender shall be considered. Cheques are not accepted as earnest money amount.** No interest is paid by us on the amount of earnest money. **Kindly attached the RTGS details with cancelled cheque along with the Earnest Money.**
20. **Arbitration Clause: - In the eventuality of any dispute, the sole Arbitrator shall be Registrar, MNIT, Jaipur and his decision shall be binding on all the parties.**
21. While submitting the tender, the **GST Registration No. & E-mail Address** is to be mentioned by the bidder positively. Failing this, there bid will be treated as non responsive. & Kindly provide
22. Specification Enclosed as annexure 1st

Deputy Registrar
(Store & Purchase)

Sr. No.	Item Specification	Qty
01	<p data-bbox="263 161 1018 197">Item Name:“ Hydrodynamic Cavitation (HC) Reactor”</p> <p data-bbox="263 215 584 250"><u>General Specifications:</u></p> <p data-bbox="263 268 1166 353">Technical Specification of Hydrodynamic Cavitation Reactor (HC reactor)</p> <ul style="list-style-type: none"> <li data-bbox="311 376 1161 519">➤ Operating pressure: 1-30 bar (should be tested for leakage free operation upto 35 bar), all seals and joints should withstand a maximum pressure of 35 bar. <li data-bbox="311 542 1201 627">➤ Operating cavitation number: 0.08 to 1.0 for all type of cavitation devices <li data-bbox="311 649 1129 734">➤ Hydrodynamic cavitation reactor should have ratio of throat perimeter to throat area upto 13 or higher <li data-bbox="311 757 1070 842">➤ Separate Hydrodynamic acoustic cavitation chamber to accommodate ultrasonic probe of 12 mm diameter. <li data-bbox="311 864 1241 1070">➤ Design of Hydrodynamic cavitation reactor: two types a) Venturi type with half convergent angle in the range of 5 to 7 degree and b) orifice type with throat perimeter to throat area ratio of 10 to 13 or higher <li data-bbox="311 1093 770 1128">➤ Material of construction: SS316 <li data-bbox="311 1151 628 1187">➤ Pipe size: ¾ inch I.D <li data-bbox="311 1209 778 1245">➤ Tank size: 15 lit capacity – 1 no. <ul style="list-style-type: none"> <li data-bbox="406 1267 1161 1352">○ With internal baffle and Jacket for cooling (material of construction SS316) <li data-bbox="406 1375 1070 1411">○ Mixer for tank (material of construction SS316) <li data-bbox="311 1433 1230 1742">➤ Pump specification: <ul style="list-style-type: none"> <li data-bbox="598 1487 1230 1572">• Operating pressure range: 30 bar (with safety valve in case of over pressure) <li data-bbox="598 1594 1046 1630">• Flow rate: 2000 LPH or higher <li data-bbox="598 1653 815 1688">• Motor: 2 kW <li data-bbox="598 1711 1098 1747">• Type of pump: high pressure pump <li data-bbox="311 1769 1219 2024">➤ Pressure Gauge: 2 no. Silicon oil filled pressure gauge in main line and bypass line each <ul style="list-style-type: none"> <li data-bbox="502 1877 831 1912">• Range: 0 – 30 kg/cm² <li data-bbox="502 1935 991 1971">• Material of construction: SS316 L <li data-bbox="502 1993 858 2029">• Least count: 0.5 kg/cm² <li data-bbox="311 2047 1238 2083">➤ Regulator valve: Ball valve: 5 no. and should be tested for operating 	01 Nos

pressure of 50 bar and 100°C temperature

- Digital flow meter: measurable flow rate upto 50L/min for liquids of density 900-1000kg/m³
- Variable frequency drive to adjust rpm of motor from 10% to 100% of the rated rpm
- Control panel should consist of digital display of rpm, rpm adjustable nob, On/Off switch for pump start/off

Note:Fabricator should demonstrate equipment in the presence of project leader/user at their manufacturing unit before supply. Any changes suggested during the demonstration should be incorporated in the design and equipment should be modified accordingly.

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