



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
Indian Institute of Technology
Kharagpur India

IIT KHARAGPUR

No IIT/ES/RC/AG/2019-20/EQ-4, Date: 28.08.2019

Sub: Tender for procurement of “Recirculating Cooler / Chiller”

Indian Institute of Technology Kharagpur, an Institute of National Importance, invites sealed bids from principal manufacturers or their authorized distributors (foreign firms or their Indian representative companies), who have adequate credential for the **Procurement of “Recirculating Cooler / Chiller” to be used in IIT, Kharagpur.**

Interested parties may submit their sealed bids under Two-cover system as per the guidelines mention below.

Tender Reference No:	IIT/ES/RC/AG/2019-20/EQ-4, Dt-28.08.2019
Price of Tender Document	NIL
Last Date and Time for submitting the tender document	25.09.2019 at 12:00 noon (Indian time)
Time and Date of Opening of Technical Bids	25.09.2019 at 16:00 Hrs (Indian time)
Place of Opening Tender	School of Energy Science and Engineering Indian Institute of Technology Kharagpur – 721 302, West Bengal, India
Address of Communication	As stated above
Contact Telephone Numbers	+91- 3222 - 260804
E-mail	amitghosh@iitkgp.ac.in

Head, School of Energy Science and Engineering
IIT Kharagpur

Copy to:

1. Institute website
2. CPPP
3. Notice Board

TECHNICAL SPECIFICATION OF Recirculating Cooler / ChillerAnnexure – I

1	Excess Temperature Protection	Max. 85°C or more
2	Required flow rate	24Lit/Min or more
3	Required pressure	0.5 bar or more
4	Maximum operating ambient temperature	40°C or more
5	Minimum operating ambient temperature	5°C or less
6	Temperature stability	±0.5 °C or better
7	Cooling capacity at 20°C in Methanol Medium	0.5KW or more
8	Number of compressor circuit	1 or more
9	Refrigerant	R134a or better
10	Process flow rate & pressure cooling media delivered from chiller	Discharge rate at 0 bar: 24L/min or better Pressure at 0 Liter: 0.5 bar or better
11	Number of process pumps	1 or more
12	Type of compressor	1 stage/air cooled or better
13	Type of controller	PID or better
14	Reservoir volume	5 to 7.5 liters or more
15	Type of pump	Circulating Pump or better
16	Pump Connection	M16 x1 or better
17	Barbed fittings diameter	8 / 12 mm or better
18	Type of surface coating	All wetted parts made of stainless steel or high grade plastic
19	Cooling of compressor	Air Cooled
20	Power supply	230 V / 50 Hz
21	Power consumption	Environmentally-friendly operation with low energy consumption
22	Current	3A
23	Filling level indicator	Sight Glass
24	Display	LED temperature display
25	Filling and Draining	Yes
26	Certification	CE & ISO Certified
27	Dimensions: W x L x H (cm)	37.5 x 44 x 59
28	Weight (kg)	34
29	Noise	62 dBA
30	Setting / display resolution	0.1 °C
31	Sound pressure level (distance 1 m) max	62 dBA or better
32	Venting Grid	Removable
33	Setpoint Adjustments	3 key setpoint adjustment
34	Display	Splash-proof membrane keypad with LED temperature display
35	Low level Protection	Float Switch
36	Supplied Accessories with the unit	2 each barbed fittings for tubing 8 and 12 mm inner dia. (pump connections M16x1 male)
37	Temperature Sensor	PT100
38	Return Flow Temperature	80°C or more
39	Alarm	By optical and audible signals in the form of a continuous tone and LED-DISPLAY indicate the error message
40	Warranty	3-years warranty

GENERAL TERMS AND CONDITIONS

1. **Last Date of Submission of Sealed Bids: 25.09.2019 upto 12:00noon.**
The Technical bids will be opened on 25.09.2019 at 16:00 Hrs in the Office of Head, School of Energy Science and Engineering, IIT Kharagpur.
2. **Payment Terms & Performance Guarantee:** 90% payment will be made on successful installation and commissioning duly certified by the concerned Head of the Department/Centre/School/Unit. A sum of 10% of the invoice value shall be retained as **Security Deposit** towards **Performance Guarantee**. The security deposit so retained may be refunded on submission of Bank Guarantee towards Performance Guarantee for the equivalent value of security Deposit valid for **three years warranty period plus sixty days** drawn on any commercial bank.
No advance/mobilization support, is payable against supply of stores.
In the event of failure to deliver the stores beyond the specified date, liquidated damages @ 1% per month or part thereof in respect of the value of stores will be deducted, subject to a maximum of 5%; alternately the order will be cancelled and the undelivered stores purchased from elsewhere at the risk and expense of the vendor.
3. **Warranty/Guarantee & On-site skill support: Three years** onsite comprehensive OEM warranty (three years from the date of successful installation and commissioning) covering repair and replacement for all the hardware (other than the consumables), software and any software upgradation. All spares and accessories to be replaced under warranty must be imported (if required) by the vendor at their own cost (including every possible expense). IIT Kharagpur will not take responsibility for the import of any replacement under Warranty. The OEMs/Authorized Distributors and Dealers must attach certificate about their after sales and service facilities, escalation support for on-call service or station engineer etc.
4. **Delivery of Stores:** The store items be supplied within 60 days from the date of receipt of the Purchase Order.
5. **Tender Fee:** Nil
6. **Earnest Money Deposit (EMD):** An amount of **Rs.3,000.00** (Rupees Three Thousand only) in the form of Demand Draft drawn in favour of “**Indian Institute of Technology Kharagpur**”, payable at Kharagpur or Fixed Deposit Receipt or Banker’s Cheque or Bank Guarantee as per format at **Annexure V. E.M.D. should be enclosed separately in an envelope and stapled with the Technical Bid document super scribing EMD.** The validity of the EMD should be 6 (six) months from the date of issue. **Any bid without EMD will be summarily rejected. No interest is payable on EMD.** EMD will be refunded to the unsuccessful bidder, finalization of the tender process. The EMD of vendor awarded with the contract to be treated as part of security deposit towards Performance Guarantee. No interest is payable on Security Deposit. Security Deposit shall be forfeited if the selected vendor after award of contract, fails to execute the same.
7. **Price:** Domestic tenders are to quote and accept their payment in Indian currency; Indian agents of foreign suppliers are to receive their agency commission in Indian currency; cost of imported goods, which are directly imported against the contract, may quote in foreign currency (currencies) and will be accordingly in that currency; and the portion of the allied work and services, which are to be undertaken in India (like installation & commissioning of equipment) are to be quoted and will be paid in Indian currency. The price shall be quoted with cost break-up indicating the applicable prices for each component (custom duty, import duty, landing and clearing charges and commission to Indian agents). Excise Duty Exemption/Custom Duty

Exemption Certificate and Inter-state transit Way Bill (Form-50) will be issued only in favour of the bidder and address as mentioned in the Purchase Order.

a. Indian institute of Technology Kharagpur is a public Funded Academic & Research institute under the minister of Human Resource Development and is eligible for GST @5% vide Notification No.47/2017 dated:14.11.2017 and Notification no. 10/2018-Integrated Tax (Rate) dated:25.01.2018 & Notification No.45/2017- Central tax (Rate) dt:14.11.2017by the Ministry of Finance, Department of Revenue.

8. **Bid:** Technical Bid and Price Bid should be submitted in two separate sealed envelope quoting reference number on the top of the envelope. Tender Fee and EMD should be enclosed with the Technical Bid documents, in separate sealed envelopes, stapled with the packet containing Technical Bid documents. The OEMs may either bid directly or authorize their Country/Regional/State Distributors /Dealers/Vendors, to quote with valid authorization certificate, capability to sale and service of the products.
9. **Acceptance of Tender:** The Authority of IIT Kharagpur does not bind itself to accept the lowest priced bid and reserves the right to reject any or the entire tender bids received without assigning any reason thereof.
10. **Extra Features:** If the bidder provides any other extra features on the Hardware or Software which are not mentioned in the tender product specifications, then that shall be highlighted in clear terms, with documentary evidence/literature.
11. **Compliance List:** The proposal be properly indexed and a compliance list against the technical specifications must be provided.
12. **Service:** Response to ensure quality of services, the deputed Engineer from the OEM/Vendor shall have a minimum of 3 years of experience in the relevant field and must be in the payroll of the OEM/Vendor.
13. **Installation and Commissioning:** Free of cost at IIT, Kharagpur. The supplier must ensure timely installation of the Recirculating Cooler / Chiller with necessary support to the indenter.
14. **Validity of licenses:** Software's licensing price or policy (if any) shall be clearly mentioned.
15. The OEM should be a ISO-9000 and ISO-14001 certified company with due credits to energy conservation and green earth compliance.
16. **Relevant documents of the OEM shall be enclosed, along with the Technical Bid. Any explanation on this account shall be supported with documentary evidence from the principals.**
17. **Conditional Offer** will not be accepted.
18. **Period of Validity:** Bids shall remain valid for acceptance for a period of 120 days from the date of opening of the price bid.
19. The benefit of any downward price revision (revision on account of budget/financial policy, tax revision, EPZ etc.) is to be given to IIT Kharagpur by the selected OEM/vendor.
20. **Past Performance of theVendors will be judged at the time of Technical Evaluation.**
21. **The Institute does not bind** itself to offer any explanation to those bidders whose technical bids have not been found acceptable by the Technical Evaluation Committee of theInstitute.

- 22. Bidders should** enclose the following documents:
1. Certificate of Registration / Trade License.
 2. Attested copy of PAN card, Service Tax, GST registration papers.
 3. Banker's Solvency Certificate.
 4. Audited statement of accounts and IT returns for the last three years.
 5. Authorized Distributors/Vendors must submit appropriate authorization certificate and letter from their OEMs, for participation in the said tender.
 6. Name and address of past satisfactory supplies or minimum three clients to whom such items/stores have been supplied should be mentioned in the technical bid.
 7. Copy of mandatory test reports, national testing/reliability and endurance test reports etc., certified or conducted at the manufacturing site, granted by the bureaus/quality control departments/national testing laboratories.
 8. Copy of product literature, for which the prices have been quoted.
 9. A write up on service and maintenance capability, mitigation of risks or breakdown and replacement capability, with the escalation support matrix suggested for the Institute. Vendors must indicate their sales and support service centre in India and their plan to address issues about services, maintaining minimum service inventory etc.
 10. Signed copy of the tender document, with company seal, agreeing to the terms & conditions and declaration.
- 23.** All tenders are to be dropped in a sealed box in the **Office of the Head, School of Energy Science and Engineering, IIT Kharagpur, P.O.- Kharagpur Technology, Pin: 721 302, India**. The bids (technical and price bids) once submitted shall be the property of the Institute and shall not be returned to the vendor in future.
- 24. The person/officer signing** the tender/bid documents should be delegated with an appropriate Power of Attorney (duly endorsed by a Notary Public) by the Chief Executive Office/Managing Director of the Company to sign such documents.
- 25. Opening of Price Bids :** The Price Bid(s) of only those vendor(s) who are found technically qualified will be opened and the same will be opened before the technically qualified vendor(s). **The date for opening of price bids will be notified separately.**
- 26.** Tenderer or his/her authorized representative (with proper authorization letter for attending opening of technical bids and also for opening of price bids) may choose to be present at the time of opening of Technical Bids/Price Bids.
- 27.** Parties who are not enlisted with the Institute are also required to submit Form R1 along with the tender.
- 28.** Bidders are required to submit their **Details** in the format given at **Annexure III** along with their technical bids. They are also required to submit a signed **Declaration** in the format given at **Annexure IV. A Checklist and Compliance statement** against each item of Annexure I & III thereon severally & individually shall also be submitted.
- 29. Minimum Eligibility Criteria**
1. Bidder should have supplied one similar type of product/material to any Government Organisation.
 2. Compliance statement of Technical specifications of all the equipment of Recirculating Cooler / Chiller.
 3. Current list/address of clients where similar material has been supplied and successfully working.
 4. Latest Income Tax returns of previous three assessment years.
 5. Name and address of Vendor's bankers and attach a Solvency Certificate from the Bank for a minimum amount of Rs. 6.00 Lakh
 6. Other certificates

- a. Registration certificate
- b. GST Registration No
- c. PAN
- d. Whether OEM/representing foreign principle (attach copy of certificate/authorization)

30. IMPORTANT

1. Director may accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid. The Institute at its discretion may change the quantity/upgrade the criteria/drop any item or part thereof at any time before placing the Purchase Order.
2. A bid submitted with false information will not only be rejected but also the OEM/vendor will be debarred from participation in future tendering process.
3. The OEMs/Vendors need to submit a certificate during opening of technical bids that they are not currently debarred or blacklisted in IIT Kharagpur for any supplies, products or services, or at present in any national organization or educational institute/university.
4. In case of any dispute, the decision of the Director of this Institute shall be final and binding on the bidders.
5. For any query pertaining to this bid document, correspondence be addressed to:

ATTENTION:

Head

School of Energy Science and Engineering

Phone: 03222- 260804

In case the due date for opening tender happens to be a holiday, the same will be opened on the next working day. The timings will however remain unchanged. Please Note that the Institute remains closed on Saturday & Sunday.

6. The Bidders are requested to submit the bids after issue of clarifications duly considering the changes made if any. Bidders are totally responsible for **incorporating/complying the changes/ amendments** issued if any in their bid.

TECHNICAL BID DOCUMENT

Format to be filled by the manufacturers / Indian agents (on behalf of their foreign principles) or their authorized country distributors/ representing dealers/ regional agencies, submitting tender for procurement of "Recirculating Cooler / Chiller" for the School of Energy Science and Engineering at IIT Kharagpur.

1. Name of the Tenderer :
2. Status of the Tenderer :
(Attach documents, if registered
Company/partnership/propriety ship)
3. Whether OEM/representing foreign principle:
(Attach copy of certificate/authorization)
4. Details of key top official/authorized official (attach details)

Name:
Official E-Mail:
Mobile No: Alternate No:

5. Details of tie-ups for supply/services, if any:
(Attach details, agreements, escalation matrix)
6. Income Tax and Service Tax returns of
Previous three assessment year (copy):
7. Financial status of bidder and/or his
Associates including Annual Report &
Balance Sheet/Statement of Account
Of past three years with Registration of
Companies (ROC) receipts duly authenticated
ByChartered Accountant:
8. Current list/address of clients where similar material
has been supplied and successfully working:
9. Name of the vendor's three largest clients, to
whom similar products and services were
extended & amountof transaction/annual
bills to such clients
10. Name and address of Vendor's bankers and
attach a Solvency Certificate from the Bank for
aminimum amount of Rs.6.00 Lakh:
11. Income Tax Permanent A/c No. (attach copy):

12. GST Registration No:

13. Details of EMD/Bank Draft No/Issuing Branch and date :

Certified that all above information are correct to the best of my/our information, knowledge and belief.

Date:

Signature & seal of the
Authorized person of OEM/Vendor

NOTE: This is to be submitted in a separate sealed envelope super scribing "TECHNICAL BID", Notice inviting Tender No.IIT/ES/RC/AG/2019-20/EQ-4,dt:28.08.2019 and name of the bidder. All technical documents like literature, catalogues etc., are to be put in the same envelope. Price bid of that company/firm only will be opened which do technically qualify, for further consideration. **Attach all relevant documents in the same serial order as above, properly indexed, duly signed and sealed.**

DECLARATION

1. I, ----- Son /Daughter of Shri -----
----- Proprietor/Partner/CEO/MD/Director/ Authorized Signatory of M/s. ----
----- am competent to sign this declaration and execute this
tender document.
2. I have carefully read and understood all the terms and conditions of the tender and hereby convey
my acceptance of the same.
3. The information/ documents furnished along with the above application are true and authentic to
the best of my knowledge and belief.
4. I/ we/ am are well aware of the fact that furnishing of any false information/ fabricated
document would lead to rejection of my tender at any stage besides liabilities towards prosecution
under appropriate law.
5. Each page of the tender document and papers submitted by my Company is authenticated,
sealed and signed, and I take full responsibility for the entire documents submitted.

Signature of the Authorized Person

Date: -----

Full Name: -----

Place: -----

Company Seal: -----

FINANCIAL BID**Supply and Installation of Recirculating Cooler / Chiller with 3 Years of comprehensive warranty.**

The Bidder shall fill all the required columns of Financial Bid:

Sr. No.	Name of the articles	Qty	Unit Price without taxes (Rs)	GST %	Unit Price with GST	Total Amount (Rs)
1.	Recirculating Cooler / Chiller	1				
Grand Total						

Note:-

1. Indian institute of Technology Kharagpur is a public Funded Academic & Research institute under the minister of Human Resource Development and is eligible for GST @5% vide notification no: 47/2017 dated:14.11.2017 by the Ministry of Finance, Department of Revenue.

Signature of the bidder
along with seal

Checklist for Enclosures
(Bidder should fill up YES or NO without fail)

S.No.	Bid Enclosures	Yes/ No	Pg. No.
1	Tender document, duly signed and stamped in token of accepted all the terms and conditions of the tender schedule.		
3	EMD of Rs. 3,000/- (DD/BG) drawn from a Scheduled Bank		
4	Whether Technical Bid (Envelop – A) contains the following documents		
5	Technical bid document at Annexure-III		
6	Compliance Statement of Technical Specification of equipment/product at Annexure - I		
7	Latest Income Tax and Tax returns of previous three assessment years		
8	List of present clients with contact address & telephone numbers		
9	Whether Tender processing Fee & EMD put in the Envelop A (if your firm is eligible for exemption submit the certificates)		
10	Registration Certificate (firm registration)		
11	Copy of PAN card, GST		
12	Original Manufacturer Certificate		
13	Latest Income Tax and Tax returns of previous three assessment years		
14	Whether Tender processing Fee & EMD put in the Envelop A (if your firm is eligible for exemption submit the certificates)		
15	If any other Documents related to Technical Bid		
16	Whether Price-Bid (Envelop – B) contains the following		
17	Duly filled Price Bid Which is signed and stamped by Authorized Signatory put inside the Envelop - B		

Note: All pages of the bid documents must be serially numbered and signed.