

भारतीय प्रौद्योगिकी संस्थान

INDIAN INSTITUTE OF TECHNOLOGY

(काशी हिन्दू विश्वविद्यालय) (BANARAS HINDU UNIVERSITY)

रासायनिक अभियांत्रिकी एवं प्रौद्योगिकी विभाग

DEPARTMENT OF CHEMICAL ENGINEERING & TECHNOLOGY

(ऊच्चानशीलन केन्द्र एवं डी एस टी प्रायोजित 'फिस्ट' विभाग)

(CENTRE OF ADVANCED STUDY & DST DEPARTMENT UNDER FIST)

(वाराणसी - २२१००५) Varanasi - 221005

QUOTATION ENQUIRY

Ref: ChE/2019-20/QTN/ 158 Posting Date: 08.01.2020

Tender Closing Date: 29.01.2020

Date 08.01.2020

Tender Opening Date: 30.01.2020

Dear Sir,

Please submit your lowest rate for supplying the under mentioned items. Quotations in duplicate reach us before the date marked above and should contain the following information:

- 1. Full specification and make of the item offered and its rate F.O.R. Varanasi.
- 2. Sales Tax/GST at concessional rate as applicable to educational institution.
- 3. Your VAT/GST registration number, PAN&TAN numbers.

4. Conditions of supply and terms of payment.

If you are a manufacture of the item or if you have proprietary right over it, please mention it in the quotation and provide a certificate.

- 5. Please mention your agency commission in Indian Rs., if applicable (in case of imported items).
- 6. Please give undertaking as per annexure-I-B

Quotation must be sent in a Sealed Envelope with word "QUOTATION", our reference number, and due date as given above,

clearly marked over it.

S. No.	Item	Specification	Qty
I	Cascade Continuosly Strirred Tank Reactor and	Details sepcification is attached.	01 .
	05 others		

- N.B: Other terms & conditions pertaining to item mentioned above, shall be mentioned below:
- LWaranty Minimum 01 Year
- 2. Firm/Bidder should not have been blacklisted/delisted or put to any hold by any Institutional Agency/Govt. Department/Public Sector Undertaking in past 03 years.
- 3. The bidder must have executed same nature of works in the last 2 years in any IITs/NITs/Govt.
- Office/PSU/University/Autonomous Body with order value of at least Rs. 3 lakhs each(order copy must be attached.)
- 4.NSIC certificate mentioning permission to manufacture/fabricate Chemical and Mechanical Engg. Under Graduate laboratory equipment must be submitted.
- 5. Performance certificate should be relevant; e.g., for CRE lab equipment, a certificate from Process Control lab will not be acceptable/entertained.
- 6. The Order will be placed on the basis of item wise lowest price (L1).

The sealed quotations will be opened on _	30.01.2020	at	03.00 PM	in the office of the Head,
Department of Chemical Engineering & Te	chnology, IIT(BHU) (This is man	datory in case of e-	publishing)

Head of the Department Chemical Engg & Tech

Fax (फैक्स): 091-0542-2368092; Email : head.che@itbha.ac.in To 0542-2368092, 6702029, 6702024 स्तायनिक अभियात्रिकी प्रीवर्मनिकी विभाग

Department of Chemical Engg. & Tech.

भारतीय प्रीयोगिकी संस्थान/Indian Institute of Technology काशी हिन्दू विश्वविद्यालय /Barerae Hindu University

वाराणसी /Vara#asi-221005



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S. No.	Item	Specification	· Qty	
Cascade continuously strirred tank reactor		Reactor: Material Stainless Steel 304 Grade Capacity 2 ltr (3 reactors) Stirrer: Stainless Steel Impeller and shaft coupled with FHP motor Feed Tank: Material Stainless Steel, Capacity 20 Ltr Feed Circulation: By Compressed air Flow Measurement: Rotameter 2 Nos. Piping: Stainless Steel and PU pipe Pressure Regulator: 0-2 Kg/cm² Pressure Gauge: Bourdon Type 0-2 Kg/cm² Control Panel Comprising of standard make on/off switch. Mains indicator etc.		
2	RTD Studies in Continuosly stirred tank reactor	Agitator: Material Stainless Steel Impeller and shaft coupled with FHP motor with variable speed control facility Feed Tank: Material Stainless Steel, Capacity - 20 Ltrs. (Approx.) Feed Circulation: By Peristaltic Pump (1No.) Piping: Stainless Steel and Silicon pipe. Stop Watch: Electronic (Two No.) Control panel comprises of: With Standard make on/off switch, Mains Indicator etc.		
3	Plug Flow Tubular Reactor			
4	RTD Studies in Tubular Plug Flow Reactor (Coiled Tube Type)	Reactor: Material Stainless Steel 304 Grade, Volume (0.6-0.7) Ltrs (approx.) Feed Tank: Material Stainless Steel (2Nos.), Capacity-10 Ltrs. (approx.) Flow Measurement: Peristaltic Pumps, 2Nos. (One each for Reactants). Piping: Stainless Steel and Silicon Pipe.		
5	Isothermal Batch Reactor	Reactor: Material Stainless Steel 304 Grade, Volume 3 Ltrs. (Approx.) Water Bath: Material Stainless Steel, Double wall, insulated with Ceramic wool. Heater: Nichrome wire Heater Stirrer (2Nos.): Stainless Steel Impeller and shaft coupled with FHP motor. Temp. Sensor: RTD PT-100 type Control panel comprises of: Digital Temp. Controller: PID Controller, 0-199.9°C (For Water Bath) With Standard make on/off switch, Mains Indicator etc.	01	

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विकागाध्यक्ष /Head रासायनिक अभिवाजिकी प्रीक्षेत्रिकी विभाग Department of Chemical Engg. & Tech. भारतीय जीवीगिकी संस्थान/Indian Institute of Technology काशी हिन्दू विश्वविद्यालय /Banaras Hindu University

वाराणसी /Varanasi-221005

सरायक प्राचार्य Assistant Professor गरामार्थानक भागवाजिकी एवं ग्रीवोगिकी Depti. of Chamical Engg. & Tech. Indian Institute of Technology Holt fit-g favafaulera Banaras Hindu University arametri / Varanasi-221005



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6	Isothermal Semi- Batch Reactor	Reactor: Material Stainless Steel 304 Grade, Capacity 3.0 Ltrs. (approx). Water Bath: Material Stainless Steel, Double wall, insulated with Ceramic wool. Heater: Nichrome wire Heater Stirrer: Material Stainless Steel Impeller and shaft coupled with FHP motor Feed Tank (INos.): Material Stainless Steel, Capacity 10 Ltrs. Flow Measurement: Peristaltic Pumps, 2Nos. (One each for reactants). Piping: Material Stainless Steel and Silicon Pipe. Temp. Sensor: RTD PT-100 type Control panel comprises of: Digital Temp. Controller: PID Controller 0-199.9°C (For Water Bath) With Standard make on/off switch, Mains Indicator etc.	01
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मानवक प्रान्तवे

Assistant Professor
Assistant Professor
Indian situation है। एवं जीवर्गिका हिन्द्राम् अस्ति जार्थिका हिन्द्राम् अस्ति जार्थिका हिन्द्रम् ।
सार्थिक शिक्षा जार्थिका संस्थान
सार्थिक हिन्द्र हिन्द्र्योवसम्बद्धः
Banaras Hindu University
सार्थिक / Varanasi-221005

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विकारणाध्यसः / Head रासायनिक अभिवारिको प्रीकारिको विधार Department of Chemical Engg. & Tack भारतीय प्रीकीनिकी संस्थान / Indian institute of Technology काशी हिन्दु विकारिकालय / Baneras Hindu University वाराणसी / Varances-221006

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