



NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR

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BID REFERENCE: NITD/CHEMICAL/DST-FIST/2016-17/04 /2nd call

Date: 14.03.2017

To

Dear Sir,

SUB: Invitation for quotations for supply and installation of Fluorescence Spectrophotometer under “DST-FIST Grant”

1. You are invited to submit your most competitive quotation for the item as per technical specification given in **Annexure-I**. Superscribe the cover envelope as “**DST-FIST Chemical – Fluorescence Spectrophotometer**”. Price bid form as per Annexure-II must be filled with complete numerical values. Please note that each item will include sub-items.
2. **Bid Price (Annexure-II)**
 - a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re-writing.
 - b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price **F.O.R. Dept. of Chemical Engineering, NIT Durgapur**.
 - c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - d) The bid price must be quoted in **Indian Rupees (F.O.R. Dept. of Chemical Engineering, NIT Durgapur)**.
3. Each bidder shall submit only one quotation for each item. Manufacturer/authorized dealers of reputed brands of high technical quality with adequate after-sales support facilities are eligible to apply. The bidder must have supplied similar good to reputed organizations to their full satisfaction and furnish a list of the same.
4. **The bid submitted by the bidder must comprise the following:**

Part – I (Techno-commercial Bid)

- a. Detailed technical specifications, conforming to the given specifications (vide Annexure-I), and literature /drawings /manuals of the goods/services to be supplied. All specifications offered needs to be supported with original literature or printed catalogue as well as the same literature needs to be available in the website of the manufacturing company.
- b. Authorized dealership certificate from the original manufacturer
- c. Credentials and list of organizations where the bidder supplied similar items
- d. Satisfaction certificates (in original letterhead) of users of the same instrument working in premier national and state government academic and research institutions and universities
- e. **Warranty period (36 months comprehensive on-site). This should include service, consumables and spares An additional 24 months comprehensive warranty after completion of 36 months must also be quoted (as an optional item).**
- f. Valid sales-tax / VAT clearance certificate

Part – II (Price Bid)

- a) Price bid as per Annexure-II

5. Validity of Quotation

Quotation shall remain valid for a period not less than **60 days** after the last date of submission.

6. Evaluation of Quotations

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e.

- (a) which are properly signed and
- (b) Conform to the terms and conditions, and specifications.
- (c) **The quotations will be evaluated considering the cost of all mandatory / essential items including tax thereon. Price of each optional accessory needs to be quoted for separately and the additional price for extra 24 month warranty must also be indicated.**

7. Award of contract

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive, technologically acceptable and who has offered the lowest evaluated quotation price.

- 7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

- 7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiry of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

8. Delivery shall be made at **Department of Chemical Engineering, NIT, and Durgapur.**

9. Payment shall be made immediately within 30 days after satisfactory installation, commissioning and successful demonstration of the good.

10. Comprehensive onsite warranty shall be applicable to the supplied goods for the selected period of **36 months / 60 months** from the date of installation as decided by the purchaser.

11. The Institute is **exempted from payment of custom and excise duty** on items mentioned below:

- a) Scientific and technical instruments, apparatus, equipment (including computers)
- b) Accessories, spare parts and consumables thereof
- c) Computer software, CD-ROM, recorded magnetic tapes, microfilms, and microchips.

12. The successful bidder must submit a valid bank guarantee on any nationalized bank of **10%** of the order value towards **Performance Security** during the warranty period before the release of payment.

13. **Liquidated Damage** will be applicable at the rate of **0.5%** per week. The purchaser has the right to cancel the purchase order when LD accumulates to 10 %.

14. A bank draft of **Rs 200** towards the bid document price payable to “**FIST CHEMICAL**” at Durgapur will be enclosed with the bid by the bidder.

15. A bank draft or bank guarantee worth **2%** payable to “**FIST CHEMICAL**” as EMD which shall remain valid for a period of 45 days beyond the final bid validity date. Bank guarantee to be addressed to “**NIT DURGAPUR**”. **This should be provided in a separate envelope.**

16. Quotations are to be submitted **in two separate sealed covers** marked **PART-I** (Techno-commercial bid) and **PART-II** (Price bid) and **PART-III**(Bank Draft or Bank guarantee against security deposit) containing relevant documents, superscripting “**Bid No. NITD/CHEMICAL/DST-FIST/2016-17/04/2nd call**”. These two sealed covers are to be placed in a separately sealed larger cover. It should be superscribed ‘**Not to be opened before 15.30 hours on 03.04.2017**’ on these envelopes.

17. Settlement of any dispute will be made under the jurisdiction of Durgapur Court.

18. You are requested to submit your offer latest by 15.00 hours on **03.04.2017**.

19. The purchaser will open the bids at 15.30 hours on **03.04.2017** in the HOD office of Chemical Engg. Department, NIT Durgapur.
20. The bid document must be signed and sealed and enclosed with the bid as a token of acceptance of all terms and conditions in the bid document by the bidder.
21. The items must be delivered at the respective department within **60 days** from the date of placement of purchase order.
22. All other terms and conditions of GFR 2005 of the Government of India will be applicable.
23. **Place of Delivery: Dept. of Chemical Engineering, NIT Durgapur.**
24. **Installation / commissioning / demonstration requirement: Installation, commissioning, complete demonstration of supplier's and purchaser's samples and successful running of the instrument must be demonstrated at Dept. of Chemical Engineering, NIT, Durgapur.**
25. **The technical bid and the price bid must be enclosed in separate envelopes properly sealed by the bidder, and submitted inside a cover sealed envelope, failure to do which may lead to cancellation of the bid by the tender committee.**

We look forward to receiving your quotations.

Head, Dept. of Chemical Engineering.

The bid must be addressed to:
Prof. Anup Kumar Sadhukhan
Head, Department of Chemical Engineering
NIT, Durgapur -713209, W.B.
Telephones: + 91-9434788124

**Specification of Fluorescence spectrophotometer to be procured under DST
– FIST program:**

General Features	<ul style="list-style-type: none"> • Microprocessor controlled Fluorescence spectrophotometer must be supplied with compatible polarization accessory • System should be satisfied precision machining technology for bright optics and high diffraction efficiency. • Should have automatic prescan and shutter controlling function for optimizing of measurement and also deterioration of unknown sample. • Should have a very user friendly software and also enable to measurement of intermolecular actions preferably.
Measurement techniques	Fluorescence, Luminescence, bioluminescence or better preferable modes. Desirable: Phosphorescence.
Spectral Range	From 200-900nm or better.
Spectral Bandwidth	1.5-20nm (Both excitation and emission)
Sensitivity	Higher sensitivity with S/N 500 or better (RMS) using Raman band of water S/N 250 or better (Peak to Peak) Excitation wavelength 350nm or better.
Light source	75W/150 W lamp with long life and self-deozonating lamp house reduces photo bleaching of samples
Detector	High Performance Photomultiplier Tube
Monochromator	Suitable configuration with high diffraction efficiency Brazed wavelength : Excitation side 300nm or better ,emission side 400nm or better.
Wavelength Scan speed	Up to 24000 nm/min preferably or better
Wavelength Accuracy	±1nm or better
Resolution	1.0nm or better
Working temperature/ humidity	15 to 35°C or better, 45 to 80% or better for greater longevity
Software System	Should program for controlling the instrument and its accessories. and Data processing features such as quantitative analysis, cumulative data averaging, first to fourth order differentiation, statistic calculation ,wavelength scan measurement, time based measurement such as life time, contour plotting measurement(fluorescence/phosphorescence), Data export to Microsoft Excel, Print preview etc.

Other Requirements	<p>Equipment should be supplied with</p> <ul style="list-style-type: none">• A compatible polarization accessory for UV/VIS region• Suitable Branded High Configuration PC and LASER Jet printer, online UPS with 1 hr backup.• Quartz Cuvettes of capacity minimum 100 micro litres and above in 2 or more numbers.• Standards and reagents for all sample analysis (like enzymatic concentrations, photocatalytic degradation, DNA Damage study etc. must be provided. Demonstration and analysis of experimental samples (upto 25 no. Of samples) is required as per applications mentioned above for standards and reagents.

PRICE BID**Essential Items**

1	2	3	4		5	6	7	8
Sl. No	Name of the good	Quantity & Unit	Price for each unit		Unit Price	Sales tax/ VAT & other taxes payable [admissible only on col. 4(a)]	Total Unit Price	Total Unit Price (in words)
			Ex-factory/ ex-warehouse/ ex-showroom/ off the shelf	Incidental Services				
			(a)	(b)	(a)+(b)		(5)+(6)	
1	<u>Fluorescence Spectrophotometer</u> Including mandatory items and accessories as per specification (Annexure-I)							

Additional Prices for Optional Items (must be quoted):

1	2	3	4		5	6	7	8
Sl. No	Name of the good	Quantity & Unit	Price for each unit		Unit Price	Sales tax/ VAT & other taxes payable [admissible only on col. 4(a)]	Total Unit Price	Total Unit Price (in words)
			Ex-factory/ ex-warehouse/ ex-showroom/ off the shelf	Incidental Services				
			(a)	(b)	(a)+(b)	4(a)]	(5)+(6)	
1	Extended warranty for additional 24 months							
2	DSC Facility							
3	Automatic sample preparation system							