

PURCHASE SECTION

**Minutes of the Pre-Bid Meeting held on 05.10.2017 at HOD Chamber, Department of Chemistry, CUTN in connection with pre-bid queries raised by prospective bidder against our Tender Enquiry No 14/2017-18 for supply and installation of laboratory Equipment for the Department of Chemistry under SERB-EMEQ Project.**

The following members of the Committee were present:

1. Prof. S. Nagarajan, Head, Department of Chemistry - Chairperson
2. Dr. T. Mohan Das, Associate Professor, Department of Chemistry - Member
3. Dr. S. G. Ramkumar, Assistant Professor, Department of Chemistry - Member
4. Dr. V. Rajendiran, Assistant Professor, Department of Chemistry - Member
5. Dr. M. Shiva Prasad, Assistant Professor, Department of Chemistry - Member
6. Dr. Vittal Babu Gudimetla, PI & Assistant Professor, Department of Chemistry - Member & Convener

The representatives of following prospective bidders attended the Pre-Bid Conference

1. Mr. K. Vijayakumar, Asst. Manager (Sales), M/s. Anatek Services Pvt. Ltd. Chennai.
2. Mr. V. Viknesh, Sales & Service Engineer, M/s. Inexus Biotech Pvt. Ltd., Chennai
3. Mr. M. Ramesh, Product Specialist, M/s. Spinco Biotech Pvt. Ltd., Chennai
4. Mr. D. Yeshwanth Kumar, Product Specialist, M/s. Waters (India) Pvt. Ltd., Chennai

E-mail communication received from Mr. M. Ramesh, Product Specialist, M/s Spinco Biotech Pvt. Ltd., has been addressed by the committee.

The attendance sheet is enclosed herewith.

**Opening Remarks:**

- (i) Prof. S. Nagarajan, HOD chemistry at the beginning welcomed the participating members and after introduction, he briefed all participants about the tender.
- (ii) It was explained that purpose of Pre-Bid conference is to explain the various important provisions of the bidding documents to the prospective bidders and to clarify the queries that the bidders may have in the subject, bidding documents.

R. Pourand  
31/10/17

31/10/17

31/10/17

31/10/17

31/10/2017

31/10/17

30/10



| Sl. No. | Query/Clarification Sought  | Amendment   |
|---------|---|---|
| 1       | <p><b>HPLC:</b></p> <p><b>(M/s. Inexus)</b><br/> i) UV-Vis Detector<br/> Noise level +/- 0.2 x 10<sup>-5</sup>AU or better- It is very specific to one brand. Please amend with a range -Noise level between 0.6 &amp; 0.2 x 10<sup>-5</sup>AU</p> <p><b>(M/s. Waters)</b><br/> ii) Differences in the no. of years of AMC needed. Kindly clarify on the same.(Page 3 of 28, Point 3)( Page 7 of 28, Point 10.4 )(Page 12 of 28, Point 29.1(f))</p> <p>iii) Our standard supply terms is 4 to 6 weeks from the date of clear and irrevocable LC or 100%. Advance TT and not from the date of order acknowledgement. Kindly advice.(Page 12 of 28, Point 30.1)</p> <p>iv) We can provide the quote in NR with import terms with all the benefits of customs duty exemption and delivery at sight as requested in the tender. This is 100% import only and not indigenous supply type. Can we quote in this format? (Page 7 of 28, Point 11)</p> <p>iv) Usually warranty is effective from date of installation, while the PBG is requested from order date with installation as clause. kindly clarify when to submit the PBG, if successfully selected.(Page 11 of 28)(Performance security)</p> <p>v)(a)Pump &amp; (b)Manual injector: We do not have a combination of quaternary gradient system with manual injector. Can we quote binary system? If we cannot quote binary, can the specs be modified to binary system as everyone has binary gradient system?(Page 21 of 28)</p> | <p>Amended suitably</p> <p>The AMC Period has been changed to Five Years after expiry of Standard Warranty period of Three Years.</p> <p>Acceptable. Further University has also stated that the delivery period will be fixed based on mutual agreement between purchaser and supplier.</p> <p>The INR Quote with Import Terms may be provided as Option – II in your commercial quote.</p> <p>The successful bidder are required to furnish a performance security for a sum equal to 10% of the order invoice value within 15 days of receipt of purchase order. Performance security remains valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.</p> <p>Quaternary is the requirement</p> |

V.S. 30/10/17

g... 30/10/17

30/10/17

30 x 2012

30/10/17

30/10



|                 |  |  |
|-----------------|--|--|
|                 | <p>vi) (a) Pump: The binary gradient system we have can only withstand up to 6000 psi or 42 MPa approx. maximum. Can we quote without being technically rejected in this point?</p> <p>vii) (a) UV-Vis Detector: Our best noise level is only up to <math>\pm 0.5 \times 10^{-5}</math> AU. Kindly requesting you to amend the same.</p> <p><b>(M/s. Spinco)</b></p> <p>viii) Columns Optional: Lux-cellulose 4 or equivalent - requested to remove this optional column and procure the same separately from the Manufacturer directly which will be economical.</p> <p>ix) Protection Class – Approval - Means</p> | <p>Pressure is amended suitably, as per the requirement of our work.</p> <p>Amended suitably</p> <p>This is an optional item.</p> <p>Instrument certifications (CE, ISO etc) if any from standard agencies</p> |
| <p><b>2</b></p> | <p><b>SPECTROFLUOROMETER</b></p> <p><b>(M/s. Anatek)</b></p> <p>i) Sensitivity Peak: 380:1<br/>Base: 1600:1</p> <p><b>(M/s. Inexus)</b></p> <p>ii) Operational wavelength range: Zero order, 200-750 nm or better. Please amend as zero order, 220 to 730 nm or better.</p> <p>ii) Sensitivity: 380:1 RMS or better-In fluorescence spectrometer sensitivity (S/N: Signal to noise ratio) is very important. 380:1 RMS is very less sensitivity, also it is not clear whether it is noise:peak or noise: background; Please mention Noise:Peak-800:1 or above (RMS) and noise:background- 7500:1 or above (RMS).</p> | <p>Amended suitably</p> <p>Amended suitably</p> <p>Amended suitably</p>  |

**(The revised technical specifications are incorporated in the annexure 1)**

The bidders were informed to ensure that all mandatory documents / certificates / Undertakings are enclosed with the bids, as specified in the tender document.

The bidders were informed that the minutes of the pre-bid conference and amendment of the bidding forms shall be published on the website of central university of ramil Nadu. The bidders were also informed that they should also regularly visit the CUTN website for any amendments issued.

In case of any further information/clarification, they were asked to contact over phone, to the Purchase Section at 04366-277359 (or) send email on purchase@cutn.ac.in; Individual visits are not entertained.

V.P. 30/10/17

epul 21/10/17

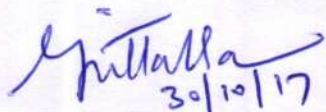
30/10/17

Dma 31/10/17  
30 x 2012

Ra 30/10

The queries related to the technical aspects raised by the suppliers were considered and appropriately incorporated. The revised technical specification is enclosed, which shall be replaced as the amended tender specification.

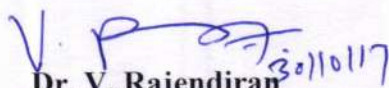
The meeting ended with a vote of thanks to the representatives of the prospective bidders.




**Vittal Babu Gudimetla**  
PI & Assistant Professor,  
Department of Chemistry  
Member and convener



**Dr. M. Shiva Prasad**  
Assistant Professor,  
Department of Chemistry  
Member



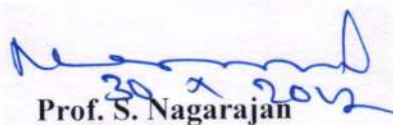
**Dr. V. Rajendiran**  
Assistant Professor,  
Department of Chemistry  
Member



**Dr. S. G. Ramkumar**  
Assistant Professor,  
Department of Chemistry  
Member



**Dr. T. Mohan Das**  
Associate Professor,  
Department of Chemistry  
Member



**Prof. S. Nagarajan**  
Head, Department of Chemistry  
Chairman



**Annexure - I**

**Dr. Vittal Babu Gudimetla, Department of Chemistry**

**(Ref: EEQ/2016/000837)**

**Revised Technical Specifications after pre-bid meeting (Tender No. \_\_\_\_\_)**

**Item No.1 High Performance Liquid Chromatograph (HPLC):**

| Specifications  | Quantity |
|---|----------|
| <p><b>I. Pump:</b><br/>                     Quaternary - The flow rate should preferably be settable between 0.001 to 10 ml/min.<br/>                     Flow rate precision <math>\pm 0.05\%</math> to <math>\pm 0.07\%</math> RSD or better RSD; <math>\pm 0.02</math> to <math>\pm 0.04</math> min SD or better.<br/>                     Flow rate accuracy should be preferably <math>\pm 1\%</math> or better<br/>                     Pressure should be in the range of 20 - 42 MPa or higher for 5ml/min to 10 mL/min respectively<br/>                     There should be standard plunger washing system, automatic rinsing of plunger is better<br/>                     There should be a reservoir tray</p> |          |
| <p><b>II. UV Vis Detector</b><br/>                     Light source: D2 lamp<br/>                     Wavelength range: 190 nm to 600nm or longer wavelength<br/>                     Spectral bandwidth should be 8nm or better. Noise level <math>\pm 0.6 \times 10^{-5}</math> to <math>0.2 \times 10^{-5}</math> AU or Better<br/>                     Flow cell – front load (cassette) cell – temperature controlled<br/>                     (Preferable options: internal light source validation or wavelength calibration)</p>  | 1 Nos    |
| <p><b>III. Manual Injector</b><br/>                     Manual Injector with necessary syringes to be supplied; Hamilton syringe 25uL; Injector mount module; 20 uL sample loop or better</p>   |          |
| <p><b>IV. Columns</b><br/> <b>Optional:</b><br/>                     a) C18 column or equivalent 1 no.<br/>                     b) Lux-cellulose 4 column or equivalent 1 no.</p>   |          |
| <p><b>V. Data Management System</b><br/>                     Suitable PC with windows operating system and Multifunction/all in-one ink tank color printer<br/> <b>Software</b><br/>                     HPLC data processing software</p>  |          |
| <p><b>VI. Protection Class:</b><br/>                     Approval (any approved instrument certifications)</p>  |          |

*Sputa 30/10/17*     
 *Hand 30/10/17*     
 *30 x 202*     
 *ADT*  
*V. P. 30/10/17*     
 *D. M. 30/10/17*     
 *R. K. 30/10*



### Item No.2 Spectrofluorometer

| Specification   |       |
|---|-------|
| A good quality fluorescence spectrophotometer for routine fluorescence measurements and should have the following specifications:   |       |
| <b>Light source:</b> 150W Xenon lamp with good life time  |       |
| <b>Operational wavelength range:</b> Zero order, 220-730 nm or better   |       |
| <b>Detector:</b> High performance photomultiplier PMT/photodiode detectors for the emission and excitation wavelengths with at least 3 years or better warranty   |       |
| <b>Wavelength accuracy:</b> $\pm 2.0$ nm or better  |       |
| <b>Wavelength repeatability:</b> $\pm 1.5$ nm or better   |       |
| <b>Resolution:</b> 2.5 nm or better resolution  |       |
| <b>Sensitivity:</b> Peak: 380:1 RMS or Better; Base: 1600:1 RMS or Better; better S/N configuration is highly preferable  |       |
| <b>Protection Class: Approval (any approved instrument certifications)</b>  |       |
| <b>The following specifications are optional (preferable) requirements:</b>   |       |
| i) Excitation intensity correction with wavelength using Photodiode reference detector. Capability of various scan speed rates. Option for auto background subtraction, standard calibration curves, and kinetic analysis |       |
| <b>Accessories (optional):</b>  |       |
| i) Fluorescence cuvettes – 1 nos  |       |
| ii) Compatible PC with windows operating system and suitable data processing software   |       |
| iii) Laser printer – basic version  |       |
|   | 1 Nos |

### Item No.3 Refrigerator (1 Nos)

| Specification   |       |
|---|-------|
| Capacity: 390 Litres or above                                       |       |
| Double doors preferably with inverter technology                    |       |
| Should be capable of maintaining temperatures below 0 °C            |       |
| Digital Display for temperature setting (LED)                       |       |
| Should have toughened shelves                                       |       |
| Suitable voltage stabilizer   |       |
| Should have 3 star above energy rating                              |       |
| Compressor warranty : 5 years or above preferable                   |       |
| Protection Class: Approval (any approved instrument certifications) |       |
|   | 1 Nos |

V.P. 30/10/17  
30/10/17

30/10/17

30/10/17

31/10/2017

30/10