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No. F-8 () RMSC/EPM/M-1/18-19/NIB-422/ 2019/ 428

Dated: 12-2-19



CLARIFICATION/CORRIGENDUM/ADDENDUM

Subject: - Revised Bid Schedule of item FTIR Spectrophotometer AND Auto Titrater with Kaul Fisher Titrater and Amended Technical Specifications of Bid document of item, under No. F-8() RMSC/EPM/M-1/18-19/NIB-422/182 date: 18.01.19

In reference to subject cited above and NIB-422, the representations received from the various firms and issues raised by the Bidders, are examined by the competent Authorities and technical committee and approved by purchase committee. The following Clarification/Corrigendum/Addendum is issued for inclusion in Bid document Amended Technical Specification of items as below:-

Technical Specifications for FOURIER TRANSFORM INFRA-RED SPECTROPHOTOMETER (FT-IR)

Fully Computer Controlled COMPACT BENCH-TOP FTIR system with universal sample compartment.	
1.	Sample module must be automatically identified.
2.	The system should have latest digital signal processor.
3.	The system should indicate whether the source and laser are operational.
4.	The System should have feature for humidity and vapour protection.
5.	Wave number range: 6000 to 500 cm-1
6.	Source: Long Life IR Source
7.	Detector: MID-IR /DLTGS/DLATGS/LiTaO3 detector with temperature control mechanism
8.	Resolution: 0.8 cm-1 or better
9.	Signal to Noise Ratio- 25000:1 Or better peak to peak for 1 min.
10.	Wave number precision: 0.05 cm-1 or better at 2000 cm-1
11.	Beam splitter: KBr coated with Ge/ZnSe/CaF2
12.	The software should also have: -Compare Software, Spectral Search; Quantitative Analysis software Spectral interpretation for unknowns; Quality checks programs and CFR-21 Part-11 Compliance should be available.
13.	The software should have real time data collection and should have the facility to continuously monitor the performance of source, detector, power supply and laser.
14.	Libraries: Built in Library with Minimum 1000 reference spectra for pharmaceutical products and drugs.
15.	Zn Se Attenuated Total Reflection (ATR), it should be from same Original Equipment Manufacturer(OEM) of main instrument-1 Nos.
16.	IR Grade KBr - 3x100 gm
17.	Fixed Volume Liquid Cell and fixed thickness (0.5 mm) -1 Nos.
18.	Sodium Chloride pellets with Holder for liquid paraffin mulls-1 No.
19.	Hydraulic Press of suitable capacity
20.	Set of 13 mm KBr die, Pellet Holder and Nozzle oil should be supplied-2 Nos.
21.	Polystyrene film of 0.3 mm having NIST Traceable certificates with five year validity-1 Nos.
22.	Agate Mortar Pestle (Dia 2 inch) -2 Nos.
23.	<u>Computer Specifications: (Higher configuration are acceptable)</u> <u>Make :HP/Dell/IBM</u> Processor - Intel i5 (5 th generation) ; RAM - 4 GB ; Hard disk - 1 TB ; Graphic Card; DVD writer; 19 " TFT screen ; LAN Port ; USB Ports ; Wi-Fi ; Multimedia Keyboard ; Optical Mouse



	<p>Operating System – Preloaded Windows 10 Pro ; Antivirus Printer- Laser Printer Monochrome with duplex printing and LAN port. UPS-2 KVA, Single phase with 60 minutes backup.</p>
24.	<p>Documents /Training and other notes: (i) The equipment should be certified by European CE marking or UL marking. (ii)Should have safety certificate from a competent authority like CE/Equivalent or valid detail of electrical and functional safety test. Copy of the certificate/test report shall be produced along with the technical bid (iii)Comprehensive guarantee period with spare parts for at least three years from the date of installation. (iv)Instruction Manuals (Hard Copy or Soft copy as applicable) along with standard Operation Procedures (SOP) and appropriate Dust cover for the instrument. (v)Installation qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ) documents should be provided at the time of supply of the instrument. (vi)Satisfactory technical and application training to the personals at the site after installation. (vii)CMC will be given @5% of net rate-inclusive of GST (as applicable) & yearly escalation of 5% on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after completion guarantee period. (viii)Minimum of two routine maintenance services/inspections to be provided annually and any number of breakdown emergency calls should be attended during the guarantee period. (ix)Price quoted should be inclusive of their complete installation in all respects at site as per purchase order. (x)Final technical approval only after demonstration of the quoted product. (xi)Any other prerequisite required (if any) with specifications should be included with the instrument to run and complete the installation.</p>

Technical Specifications for Auto Titrator and Karl Fisher Titrator

1.	<p>Auto Titrator should have the capability of performing acid / base aqueous and non-aqueous titration, redox and fluoride titration. KF Titrator should perform water / moisture content from 100PPM to 100%.</p>
2.	<p>Both separate systems should run as standalone instrument with Color Touch Screen display.</p>
3.	<p>Both Instrument should capable to connect with centralize PC software. Documented proof should submit along with tender regarding connecting with software.</p>
4.	<p>Both Titrator should capable for generate analysis pdf or printed report after completing analysis, which must consists Instrument Sr. No, User Name, Date and time, method number, analysis graphs and results.</p>
5.	<p>Facility for data security, audit trails and electronic signatures etc., should be available for GLP and 21 CFR compliance.</p>
6.	<p>Facility for creating at least 10 user ID with password with different with different operating authority.</p>
7.	<p>Must have USB port for data backup of results on PDF format, methods etc.</p>
8.	<p>For Auto Titrator, minimum 100 methods for Auto Titrator, minimum 5 methods for KF Titrator.</p>
9.	<p>Both Titrator can connect with network printer for centralize data printout.</p>
	<p>Specifications for Auto Titrator</p>
10.	<p>Measurement Range Auto Titrator should supply along with two burettes, all burettes should be of latest technology equipped with auto detection facility. System should be capable of automatic identification of volume of the burette being used. Burette should have facility to store the data related to strength of</p>



	<p>titrant, date of calculation of strength, Burette Drive, Burette serial No. and Burette volume, Titer history, Validation data, calibration data, serial no of piston, etc.</p> <p>Burette Capacity : 10 ml or 20 ml</p> <p>pH : ± 20 (0.001 Resolution)</p> <p>mV : ± 2000 (±0.1 mV Resolution)</p> <p>Burette Resolution : 1/20000</p> <p><u>Stirring System</u></p> <p>Potentiometric Titration - Propeller stirring system for prevent Vortex Formation and avoiding electrode hitting chance from magnetic stirrer. Stirrer should control from Auto Titrator.</p>
11.	<p><u>List of Electrode</u></p> <ol style="list-style-type: none"> 1. Electrode to perform Acid Base Titration (Aqueous) – 4 No 2. Electrode to perform Acid Base Titration (Non Aqueous) – 2 No 3. Electrode to perform Redox Titration- 2 No. 4. Electrode to perform Fluoride Titration- 1 No.
12.	<p><u>Other Accessories</u></p> <p>4 / 7 / 9 pH buffers solution- 2 Packs</p> <p>Lithium Chloride Solution-2 Packs</p> <p>Potassium Chloride solutions-2 Packs</p> <p>Electrode storage solutions-2 Packs</p>

	<p>Specifications for Karl Fisher Titrator</p>
13.	<p><u>Measurement Range</u></p> <p>KF Titrator should supply along with two burettes, all burettes should be of latest technology equipped with auto detection facility</p> <p>System should be capable of automatic identification of volume of the burette being used.</p>
14.	<p>Burette should have facility to store the data related to strength of titrant, date of calculation of strength, Burette Drive.</p> <p>Burette Capacity : 5 ml or 10 ml</p> <p>pH : ± 20 (0.001 Resolution)</p> <p>mV : ± 2000 (±0.1 mV Resolution)</p> <p>Burette Resolution : 1/20000</p>
15.	<p><u>Stirring System</u></p> <p>Titration - Propeller stirring system for prevent Vortex Formation and avoiding electrode hitting chance from magnetic stirrer. Stirrer should control from KF Titrator.</p>
16.	<p><u>Solvent Control</u></p> <p>KF Titrator should supply along with solvent control device for ensuring solvent drain and refill in closed environment. One waste tank should supply with Titrator.</p>
17.	<p><u>List of Electrode</u></p> <ol style="list-style-type: none"> 1. Double pin platinum electrode – 2 No.
18.	<p><u>Other Accessories</u></p> <p>Karl Fisher reagent: 5x 500 mL</p>
19.	<p><u>Computer Specifications: (Higher configuration are acceptable)</u></p> <p><u>Make :HP/Dell/IBM</u></p> <p>Processor - Intel i5 (5th generation) ; RAM - 4 GB ; Hard disk - 1 TB ; Graphic Card; DVD writer; 19 " TFT screen ; LAN Port ; USB Ports ; Wi-Fi ; Multimedia Keyboard ; Optical Mouse</p> <p>Operating System – Preloaded Windows 10 Pro ; Antivirus</p> <p>Printer- Laser Printer Monochrome with duplex printing and LAN port.</p> <p>UPS-2 KVA, Single phase with 60 minutes backup.</p>
20.	<p>Documents /Training and other notes:</p>

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- (i) The equipment should be certified by European CE marking or UL marking.
- (ii) Should have safety certificate from a competent authority like CE/Equivalent or valid detail of electrical and functional safety test. Copy of the certificate/test report shall be produced along with the technical bid
- (iii) Comprehensive guarantee period with spare parts for at least three years from the date of installation.
- (iv) Instruction Manuals (Hard Copy or Soft copy as applicable) along with standard Operation Procedures (SOP) and appropriate Dust cover for the instrument.
- (v) Installation qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ) documents should be provided at the time of supply of the instrument.
- (vi) Satisfactory technical and application training to the personals at the site after installation.
- (vii) CMC will be given @5% of net rate-inclusive of GST (as applicable) & yearly escalation of 5% on last year's CMC price. The CMC may be awarded for five years (on yearly basis) after completion guarantee period.
- (viii) Minimum of two routine maintenance services/inspections to be provided annually and any number of breakdown emergency calls should be attended during the guarantee period.
- (ix) Price quoted should be inclusive of their complete installation in all respects at site as per purchase order.
- (x) Final technical approval only after demonstration of the quoted product.
- (xi) Any other perquisite required (if any) with specifications should be included with the instrument to run and complete the installation.

Revised bid schedule:-

E-bids are invited as per following revised time schedule:-

Last date & time for sale of bid form	Last date & time of receipt of bid form	Date & time of opening of technical bid
<u>25.02.2019</u> <u>11:00 AM</u>	<u>25.02.2019</u> <u>6:00 PM</u>	<u>26.02.2019</u> <u>11:00 AM</u>

It is also clarified that information of award of contract shall be communicated to all participating bidders on the website www.rmssc.nic.in and sppp.raj.nic.in. Please note that individual bidder will not be intimated."

Note:- Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-V, Schedule of Supply, and Point no. 3) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same

This bears the approval of M.D., RMSCL, Jaipur.

[Signature]
12.2.2019
Executive Director (EPM)
RMSCL, Jaipur