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F-80 RMSC/EPM/M-6/NIB-799/23-24/ 545

Date:- 26/9/23

Clarification/Corrigendum/Addendum

Subject: Revised Technical Specification of the rate contract For Item "Food Lab-Circulation Water Bath, Hot Plate Cum Magnetic Stirrer, Hot Plate, UV-Visible Spectrophotometer" for under NIB No. F-80) RMSC/EPM/M-6/2023-24/NIB-799/415 Date 25.08.2023.

Revised Technical Specification of Item "UV-Visible Spectrophotometer"

1. Technical Specification of UV-VISIBLE SPECTROPHOTOMETER			
Application UV-VIS spectrophotometer is the workhorse of the laboratory used in Spectrophotometric and colorimetric analysis of analytes, food colors, enzyme assay, hydroxymethyl furfural, coloring and bitter principles of saffron etc.			
Sr. No.	Specification	Technical Specification of Circulation Water Bath	Remarks
1	System	A fully automated PC Controlled spectrophotometer with double beam optics with pre-programmed applications Using conventional quartz cuvettes with all therequired accessories.	
2	Operation Keys	I. Instrument should operate immediately after switch on with no warming up time. II. Should be automatically programmed with from PC key board. III. Capable to store method with analysis:> 100 method programs on the instrument or PC> 1000 results with data, evaluation results and used parameters.	
3	Optical Design	<ul style="list-style-type: none">• Double Beam with sample and reference cuvette positions; Czerny-Turner equivalent Monochromatic /Holographic OR equivalent grating with sealed optics.• Reference Compartment Should accommodate cells up to 10 mm path length as standard feature	
4	Light Source	1. Halogen lamp for visible range. 2. Deuterium Lamp for UV range, light source should be auto automatically selected as per wavelength required or Xenon flash lamp for UV and visible range.	
5	Detector	Silicon Photodiode dual detector/PMT	
6	Scan Ordinate Modes	Absorbance, % Transmittance, % Reflectance	
7	Resolution	0.1 nm or better.	
8	Wavelength Range	190-900 nm or more	
9	Wavelength Accuracy	±0.3 nm or better for entire range.	
10	Wavelength Repeatability	±0.1 nm or better	
11	Scanning Speed	Selectable variable wavelength scan rate 10nm/min to 2500 nm/min or	
12	Spectral Bandwidth	Variable- (0.2/0.5/1/2/4 or 5) nm	
13	Photometric Range	Absorbance = -4.0 to 4.0 Abs or better.	
14	Photometric Accuracy	With Neutral Glass filter @ 546nm: +0.003A or Better.	
15	Stray Light	Max. 0.05% (220 nm NaI) or better, Max. 0.05% (340,370 nm NaNO ₂) or better Max. 1% (198 nm KCD or better,	
16	Noise	0.00005 Abs RMS (500nm) or better	
17	Drift	<0.0005 A/hr (500 nm, 1-hour warm-up)	

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18	Baseline flatness	± 0.0005 Abs or better.	
19	Application Software	<p>Compatible Software should be User friendly & simple data handling with feature like easy to use report publisher, online help and answer Wizard, GLP & audit trail and fully compatible with Windows.</p> <p>System built in features such as real time display of concentration, time scan, photometric mode, single/multi-wavelength, capability for event recording (e.g., addition of reagents).</p> <p>Software Should built in a methods.</p> <ul style="list-style-type: none">• Absorbance with one or more wavelengths.• Scans, Nucleic acids, Proteins, OD 600.• Evaluation: via factor, standard and calibration Curve.• Dual wavelength with subtraction and division evaluation.• Method depended evaluation.• Absorbance, concentration via factor and standard• Concentration via standard series using Linear regression, Nonlinear regression with 2nd and 3rd degree polynomials.• Spline analysis.• Linear interpolation (point to point evaluation)• Absorbance allocation via subtraction and division• Ratio 260/280, 260/230, Molar concentration and total yield for nucleic acids. <p>The software should be 21CFR part 11 compliant.</p>	
20	Accessories and spares	<ul style="list-style-type: none">• One pair each of 0.5, 1 and 3-ml quartz cuvettes 10 mm path length.• One pair each of 0.5, 1, and 3 ml glass cuvettes 10 mm path length• Cuvette holder• Deuterium Lamp.• Halogen lamp• Suitable Certified Standards for Validation including Holmium oxide glass filters for wavelength calibration & NIST traceable.• NIST traceable Potassium dichromate	
21	Computer and printer	Latest configuration factory set branded PC system with 22- 23" Full HD Monitor with printer-B/W- duplex- laser- legal, A4 - 1200dpi-up to 21 ppm -capacity with network Card.	
22	UPS	Suitable UPS with at last 60 mins backup power.	
23	Calibration	Certificate from an ISO 17025 accredited lab spectral calibration. Wavelength check and absorbance check for the calibration of equipment should be performed	
24	Compliance	IQ/OQ/PQ of instrument and Software should be provided along with document.	
25	Operation and training component	The supplier will have to carry out successful installation at the laboratory premises (where ever the system has to be installed) and provide on- site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction	
26	Certificates Performance and safety standards (specific to the device type): Local and/or International	Should be US FDA/CE (notified body)/ BIS approved product.	
27	Quality requirement	Certified to be compliant with IEC 61010-1. IEC 61010-2-40 for safety	
28	Supplier/ Manufacturer	Manufacturer/ Supplier's should be ISO certified (certificate shall be attached in technical bid)	
29	Recommendations or Warnings	<ul style="list-style-type: none">• Any warning signs would be adequately displayed	
30	Warranty	Warranted for 3 years after satisfactory installation and working excluding consumable parts and accessories.	
31	Service contract clauses, including prices	List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached;	

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32	Operating manuals, service manuals, other manuals	Should provide 2 sets (hardcopy and soft-copy) of:- <ul style="list-style-type: none"> • User, technical and maintenance manuals to be supplied in English language along with machine diagrams; • List of equipment and procedures required for local calibration and routine maintenance; • Service and operation manuals (original and copy) to be provided; • Advanced maintenance tasks documentation, if any. • Certificate of calibration and inspection 	
33	After sales service Post warranty	Contact details of manufacturer, supplier and local service agent to be provided, including toll free Landline Number: Should have a good after sales service/technical support capable of reaching at short notice the places where instrument is installed. Visits and unlimited breakdown calls by service application support, engineers should attend immediately without fail. Should carry out yearly PM with at least one PM kit. Comprehensive AMC cost rate for 3 years after warranty shall be quoted. Terms and conditions for the comprehensive AMC, after the warranty period has to be specified.	
34	Compliance statement	The quote should also include a Compliance statements vis-à-vis specification in a " Tabular Form" clearly stating the compliance and giving justification, if any supported by technical literature. This Statement must be signed, with the company seal, for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification.	
35	Outage conditions	After two years of warranty period, 3 years of CAMC shall be undertaken by the supplier. This would also include:- a. Preventive maintenance service: The seller will provide a minimum of two Preventive Maintenance Service visits during a year to the operating base to carry out functional checkups and minor adjustments/tuning as may be required. b. Breakdown Maintenance Service. In case of any breakdown of the equipment/system, on receiving a call from the buyer, the seller is to provide maintenance service to make the equipment/system serviceable. c. Response time: The response time of the seller should not exceed 48 hours from the time the breakdown intimation is provided by the Buyer. d. Serviceability of 90% per year is to be ensured. This amounts to total maximum downtime of 37 days per years. Also serviceability should not exceed 2 working days at one time. Required spares to attain this serviceability may be stored at site by the seller at his own cost. Total down time would be calculated at the end of the year. If downtime exceeds permitted downtime 'Liquidated Damages' would be applicable for the delayed period. e. Maximum repair turnaround time for equipment's/system would be 3 days. However, the spares should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system.	
36	Payment	Payment only after installation, validation and performance demonstration	

Please note that all clarification/amendment/corrigendum in technical specifications/bid conditions is the integral part of the bid document. This corrigendum/ addendum should be signed and annexed with bid document.

All other terms & conditions remains the same.

26/09/23
 Executive Director (EPM)
 RMSCL, Jaipur

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