



Rajasthan Medical Services Corporation Limited, Jaipur

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No. F-8() RMSC/EPM/M-4/2019-20/NIB-443/ 2675

dated: 15/10/2019

Clarification/Corrigendum/Addendum

Subject: - Amended Technical Specifications and Revised Bid Schedule of item 1.Atomic Absorption Spectrophotometer (AAS) with Graphite Furnace and Hydride System 2.Safety Shower cum Eye Wash 3.Analytical Balance 4. Auto Titrator and Karl Fisher Titrator 5. Semi Micro Analytical Balance And Printer 6. Top Pan Balance 7. Vacuum Oven under No. F-8() RMSC/EPM/M-4/2019-20/NIB-443/2444 Dated: 02.09.2019

In reference to subject cited above and NIB-443, 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:-

1. Amended Technical Specifications of Items Semi Micro Analytical Balance And Printer and Auto Titrator and Karl Fisher Titrator as below:-

Semi Micro Analytical Balance And Printer

Sno	<u>Previous Tender Technical Specifications</u>	<u>Amended Technical Specifications</u>
1.	Electronic, analytical and programmable semi-micro balance for high end research purposes, with high precision, sensitivity and accuracy.	Electronic, analytical and programmable semi-micro balance for high end research purposes, with high precision, sensitivity and accuracy.
2.	Weighing Capacity with selectable weighing units: Fine Range: 40 ± 5 gm Full Range: 120 ± 5 gm	Weighing Capacity with selectable weighing units: Fine Range: 40 ± 5 gm Full Range: 120 ± 5 gm
3.	Readability: 0.01 mg /0.1 mg Repeatability: ≤ ± 0.01 mg. Linearity Deviation: ≤ ± 0.1 mg. Eccentricity Deviation: 0.4 mg Response Time: 3 sec or lesser	Readability: 0.01 mg /0.1 mg Repeatability: ≤ ± 0.01 mg. Linearity Deviation: ≤ ± 0.1 mg. Eccentricity Deviation: 0.4 mg Response Time: 3 sec or lesser
4.	Touch screen with graphical user interface. Display size 5 inch or more.	Touch screen with graphical user interface. Display size 5 inch or more.
5.	Interface sensors for hand free operations such as auto door opening.	Deleted
6.	Fully automatic temperature- and time-controlled internal calibration should be available.	Fully automatic temperature- and time-controlled internal calibration should be available.
7.	Levelling glass level indicator with air bubble for centring required or equivalent facility for	Levelling glass level indicator with air bubble for centring required or equivalent

	Levelling along with built in level control function which stops to work if the level is not proper.	facility for Levelling along with built in level control function which stops to work if the level is not proper.
8.	USB/Mini USB interface and RS 232 port required with options for printer attachment and data transfer ability.	USB/Mini USB interface and RS 232 port required with options for printer attachment and data transfer ability.
9.	Rugged and easy to clean housing required with in-use cover.	Rugged and easy to clean housing required with in-use cover.
10.	The weighing chamber base should be removable from the chamber for cleaning purposes.	The weighing chamber base should be removable from the chamber for cleaning purposes.
11.	Capability of password protection is desired	Capability of password protection is desired
12.	Balance should have CSA/UL/CE International Certifications.	Balance should have CSA/UL/CE International Certifications.
13.	One Anti-vibration table: 4 feet x 2 feet x 85 cm with drawer attached, rested on rubber mat with adjustable legs.	One Anti-vibration table: 4 feet x 2 feet x 85 cm with drawer attached, rested on rubber mat with adjustable legs.
14.	Suitable printer should be supplied for GLP compliant print out.	Suitable printer should be supplied for GLP compliant print out.
15.	Onsite NABL calibration should be provided.	Onsite NABL calibration should be provided.
16.	<p>Documents and Training and other notes:</p> <p>a) Instruction Manuals (Hard Copy or Soft copy as applicable) along with standard Operation Procedures (SOP) and appropriate Dust cover for the instrument.</p> <p>b) Satisfactory technical and application training to the personals at the site after installation.</p> <p>c) 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.</p> <p>d) 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.</p> <p>e) Price quoted should be inclusive of their complete installation in all respects at site as per purchase order.</p> <p>f) Final technical approval only after demonstration of the quoted product.</p> <p>g) Any other perquisite required (if any) with specifications should be included with the</p>	<p>Documents and Training and other notes:</p> <p>a) Instruction Manuals (Hard Copy or Soft copy as applicable) along with standard Operation Procedures (SOP) and appropriate Dust cover for the instrument.</p> <p>b) Satisfactory technical and application training to the personals at the site after installation.</p> <p>c) 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.</p> <p>d) 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.</p> <p>e) Price quoted should be inclusive of their complete installation in all respects at site as per purchase order.</p> <p>f) Final technical approval only after</p>

	instrument to run and complete the installation.	demonstration of the quoted product. g) Any other prerequisite required (if any) with specifications should be included with the instrument to run and complete the installation.
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2. Auto Titrator and Karl Fisher Titrator

Sno	<u>Previous Tender Technical Specifications</u>	<u>Amended Technical Specifications</u>
1.	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%.	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%.
2.	Both separate systems should run as standalone instrument with Color Touch Screen display.	Both separate systems should run as standalone instrument with Color Touch Screen display.
3.	Both Instrument should capable to connect with centralize PC software. Documented proof should submit along with tender regarding connecting with software.	Both Instrument should capable to connect with centralize PC software. Documented proof should submit along with tender regarding connecting with software.
4.	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.	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.
5.	Facility for data security, audit trails and electronic signatures etc., should be available for GLP and 21 CFR compliance.	Facility for data security, audit trails and electronic signatures etc., should be available for GLP and 21 CFR compliance.
6.	Facility for creating at least 10 users ID with password with different with different operating authority.	Facility for creating at least 10 users ID with password with different with different operating authority.
7.	Must have USB port for data backup of results on PDF format, methods etc.	Must have USB port for data backup of results on PDF format, methods etc.
8.	For Auto Titrator, minimum 100 methods for Auto Titrator, minimum 5 methods for KF Titrator.	For Auto Titrator, minimum 100 methods for Auto Titrator, minimum 5 methods for KF Titrator.
9.	Both Titrator can connect with network printer for centralize data printout.	Both Titrator can connect with network printer for centralize data printout.
10.	<p>Specifications for Auto Titrator Measurement Range</p> <p>Auto 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> <p>Burette should have facility to store the data related to strength of titrant, date of calculation of strength, Burette Drive, Burette serial No. and Burette</p>	<p>Specifications for Auto Titrator Measurement Range</p> <p>Auto Titrator should be supplied along with two compatible 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. Burette should have facility to store the data related to strength of titrant,</p>

	<p>volume, Titer history, Validation data, calibration data, serial no of piston, etc. Burette Capacity: 10 ml or 20 ml pH: ± 20 (0.001 Resolution) mV: ± 2000 (± 0.1 mV Resolution) Burette Resolution: 1/20000 Stirring System Potentiometric Titration- Propeller stirring system for prevent Vortex Formation and avoiding electrode hitting chance from magnetic stirrer. Stirrer should control from Auto Titrator.</p>	<p>date of calculation of strength, Burette Drive, Burette serial No. and Burette volume, Titer history, Validation data, calibration data, serial no of piston, etc. Burette Capacity: 10 ml or 20 ml pH: 0 to 14 (0.001 Resolution), lower and higher pH range also acceptable mV: ± 2000 (± 0.1 mV Resolution) Stirring System 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>List of Electrode a) Electrode to perform Acid Base Titration (Aqueous) – 3 No b) Electrode to perform Acid Base Titration (Non Aqueous) – 1 No c) Electrode to perform Redox Titration- 1 No. d) Electrode to perform Fluoride Titration- 1 No.</p>	<p>List of Electrode a) Electrode to perform Acid Base Titration (Aqueous) – 3 No b) Electrode to perform Acid Base Titration (Non Aqueous) – 1 No c) Electrode to perform Redox Titration- 1 No. d) Electrode to perform Fluoride Titration- 1 No.</p>
12.	<p>Other Accessories a) 4 / 7 / 9 pH buffers solution- 1 Pack b) Lithium Chloride Solution-1 Pack c) Potassium Chloride solutions-1 Pack d) Electrode storage solutions-1 Pack</p>	<p>Other Accessories a) 4 / 7 / 9 pH buffers solution- 1 Pack b) Lithium Chloride Solution-1 Pack c) Potassium Chloride solutions-1 Pack d) Electrode storage solutions-1 Pack</p>
13.	<p>Specifications for Karl Fisher Titrator Measurement Range KF 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 titrant, date of calculation of strength, burette drive. Burette Capacity: 5 ml or 10 ml pH: ± 20 (0.001 Resolution) mV: ± 2000 (± 0.1 mV Resolution) Burette Resolution: 1/20000</p>	<p>Specifications for Karl Fisher Titrator Measurement Range KF Titrator should be supplied along with two compatible 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 titrant, date of calculation of strength, burette drive. Burette Capacity: 5 ml or 10 ml</p>
14.	<p>Stirring System Titration - Propeller stirring system for prevent Vortex Formation and avoiding electrode hitting chance from magnetic stirrer. Stirrer should control from KF Titrator.</p>	<p>Stirring System Titration - Propeller stirring system for prevent Vortex Formation and avoiding electrode hitting chance from magnetic stirrer. Stirrer should control from KF Titrator.</p>
15.	<p>Solvent Control 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>	<p>Solvent Control 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>

16.	List of Electrode Double pin platinum electrode – 1 No.	List of Electrode Double pin platinum electrode – 1 No.
17.	Other Accessories Karl Fisher reagent: 5x 500 mL	Other Accessories Karl Fisher reagent: 5x 500 mL
18.	Computer Specifications (Higher configuration are acceptable): Make: HP/Dell/IBM; 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; Operating System: Preloaded Windows 10 Pro; Antivirus; Printer- Laser Printer Monochrome with duplex printing and LAN port. UPS of 2 KVA Capacity of Single phase with 60 minutes backup for complete system.	Computer Specifications (Higher configuration are acceptable): Make: HP/Dell/IBM; 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; Operating System: Preloaded Windows 10 Pro; Antivirus; Printer- Laser Printer Monochrome with duplex printing and LAN port. UPS of 2 KVA Capacity of Single phase with 60 minutes backup for complete system.
19	Documents /Training and other notes: a) The equipment should be certified by European CE marking or UL marking. b) 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. c) Comprehensive guarantee period with spare parts for at least three years from the date of installation. d) Instruction Manuals (Hard Copy or Soft copy as applicable) along with standard Operation Procedures (SOP) and appropriate Dust cover for the instrument. e) Installation qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ) documents should be provided at the time of supply of the instrument. f) Satisfactory technical and application training to the personals at the site after installation. g) 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. h) 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. i) Price quoted should be inclusive of their complete installation in all respects at site as per purchase order. j) Final technical approval only after demonstration of the quoted product. k) Any other prerequisite required (if any) with specifications should be included with the	Documents /Training and other notes: a) The equipment should be certified by European CE marking or UL marking. b) 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. c) Comprehensive guarantee period with spare parts for at least three years from the date of installation. d) Instruction Manuals (Hard Copy or Soft copy as applicable) along with standard Operation Procedures (SOP) and appropriate Dust cover for the instrument. e) Installation qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ) documents should be provided at the time of supply of the instrument. f) Satisfactory technical and application training to the personals at the site after installation. g) 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. h) Minimum of two routine maintenance services/inspections to be provided annually and any number of breakdown emergency calls should be


	instrument to run and complete the installation.	attended during the guarantee period. i) Price quoted should be inclusive of their complete installation in all respects at site as per purchase order. j) Final technical approval only after demonstration of the quoted product. Any other prerequisite required (if any) with specifications should be included with the instrument to run and complete the installation.
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2. Date extension of Bid:-

Previous Last date & time of receipt of bid form	New Last date & time of receipt of bid form	Previous Date & time of opening of technical bid	New Date & time of opening of technical bid
<u>21.10.2019</u> <u>6:00 PM</u>	<u>30.10.2019</u> <u>6:00 PM</u>	<u>22.10.2019</u> <u>11:00 AM</u>	<u>31.10.2019</u> <u>11:00 AM</u>

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.


Executive Director (EPM)
RMSCL, Jaipur
 of 12