

Date: - 17/11/2020

Corrigendum for Ion meter with selective electrodes

S.No.	Technical specification	Technical specification after Corrigendum
1.	Latest model of Ion Meter, Microprocessor based, menu driven programmable, Multiple channel ion Meter for direct measurement of Ion Conc mV, pH and Temp and also have feature for up gradation to analyze multi parameters.	Latest model of Ion Meter, Microprocessor based, menu driven programmable, Multiple channel ion Meter for direct measurement of Ion Concentration mV, pH and Temp and can also analyze Dissolved Oxygen, Conductivity, TDS, and Salinity.
2.	Bench top model for analysis of all cations and anions at residual level in complex food sample and measurement of pI. Should have Large backlit graphic LCD display to shows the ion concentration level /pH / mV /RmV results and temperature along with electrode status, time, date, sample ID, user ID and calibration points, for advanced users features such as stability and averaging.	Bench top model for analysis of all cations and anions at residual level in complex food and water samples and measurement of pI. Should have Large backlit graphic LCD display to shows the ion concentration level /pH / mV /RmV results and temperature along with electrode status, time, date, sample ID, user ID and calibration points, for advanced users features such as stability and averaging.
3.	Easy function keys for easy selection	Easy function keys for easy selection
4.	Ion meter should have ready indicator alerts for indicating when readings are stable and timed reading gathers data in specific time intervals or just once with single short mode	Ion meter should have ready indicator alerts for indicating when readings are stable and timed reading gathers data in specific time intervals or just once with single short mode
5.	Should have ability to make at least 5 point pH calibration with automatic recognition for USA/NIST and DIN Buffers	Should have ability to make at least 5 point pH calibration with automatic recognition for NIST/ISO 17034/ DIN Buffers
6.	There should be facility to fix errors without a complete recalibration with the calibration editing function	There should be facility to fix errors without a complete recalibration with the calibration editing function
7.	There should be Non volatile memory having capacity to hold minimum 1000 data points with time and date stamp	There should be Non volatile memory having capacity to hold minimum 1000 data points with time and date stamp
8.	There should be facility to store at least 5 methods per channel and allowing customized procedures to differentiate between tests and/or users	There should be facility to store at least 5 methods per channel and allowing customized procedures to differentiate between tests and/or users
9.	Suitable facility to transfer data from equipment to computer archives or directly operate the ion meter with PC with suitable software	Suitable facility to transfer data from equipment to computer archives or directly operate the ion meter with PC with suitable software
10.	Facility to mix samples with a stir plate with direct control of the stirrer probe	Facility to mix samples with a stir plate with direct control of the stirrer probe
11.	Machine should Include electrode arm and probe holder to make it easier to maintain and place probes into samples	Machine should Include electrode arm and probe holder to make it easier to maintain and place probes into samples
12.	Should works with almost every AC power source	Should works with almost every AC power source
13.	ISE: Range: 0 to 19999	ISE: Range: 0 to 19999

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	<p>Resolution: Up to 3 significant digits or better Relative Accuracy: ± 0.2 mV or 0.05%, whichever is greater Units: ppm, ppb, M, % or unit less Calibration Points: 3 to 5 minimum Calibration Editing : Yes Calibration Features: Timed end point, linear point to point, non linear selectable auto-blank, low concentration range stability etc.</p>	<p>Resolution: Up to 3 significant digits or better Relative Accuracy: ± 0.2 mV or 0.05%, whichever is greater Units: ppm, ppb, M, % or unit less Calibration Points: 3 to 5 minimum Calibration Editing : Yes Calibration Features: Timed end point, linear point to point, non linear selectable auto-blank, low concentration range stability etc.</p>
14.	<p>mV - Rel mV: Range: ± 1999.0 mV or better Resolution: 0.1 or better Relative Accuracy: ± 0.2 mV or 0.05%, whichever is greater E_n Calibration Capability: Yes</p>	<p>mV - Rel mV: Range: ± 1999.0 mV or better Resolution: 0.1 or better Relative Accuracy: ± 0.2 mV or 0.05%, whichever is greater E_n Calibration Capability: Yes</p>
15.	<p>pH: Range: 0.000 to 14.000 or higher range Resolution: 0.001 or better Relative Accuracy: ± 0.01 or better Calibration Points: 3 to 5 minimum Calibration Editing : Yes</p>	<p>pH: Range: 0.000 to 14.000 or higher range Resolution: 0.001 or better Relative Accuracy: ± 0.01 or better Calibration Points: 3 to 5 minimum Calibration Editing : Yes</p>
16.	<p>Temperature: Range; 0 °C to 100 °C or higher Resolution: 0.1°C Relative Accuracy: ± 0.1°C Offset calibration : 1 point</p>	<p>Temperature: Range; 0 °C to 100 °C or higher Resolution: 0.1°C Relative Accuracy: ± 0.1°C Offset calibration : 1 point</p>
17.	<p>Data logging Points: 1000 or higher with time/date stamp Log function: Manual, ready and time</p>	<p>Data logging Points: 1000 or higher with time/date stamp Log function: Manual, ready and time</p>
18.	<p>Ion Electrodes: one unit of following electrodes:</p> <ul style="list-style-type: none"> i) Ammonia ion: High Performance Dissolved Gas Ammonia Ion Selective Electrode for Ammonium Measurement ii) Calcium ion selective electrode iii) Chloride ion selective electrode iv) Chlorine ion selective electrode v) Fluoride ion selective electrode vi) Nitrate ion selective electrode vii) Nitrite ion selective electrode viii) Iodide ion selective electrode ix) Cyanide ion selective electrode x) Bromate ion selective electrode xi) Sulphide ion selective electrode xii) Sulphate ion selective electrode xiii) Sulphite ion selective electrode xiv) Bromine ion selective electrode xv) Iodine ion selective electrode <p>Note: All selective electrode should be supplied including Reference cell, all</p>	<p>Ion Electrodes: one unit of following electrodes:</p> <ul style="list-style-type: none"> i) Ammonia ion: High Performance Dissolved Gas Ammonia Ion Selective Electrode for Ammonia Measurement ii) Calcium ion selective electrode iii) Chloride ion selective electrode iv) Chlorine ion selective electrode v) Fluoride ion selective electrode vi) Nitrate ion selective electrode vii) Iodide ion selective electrode viii) Cyanide ion selective electrode ix) Bromide ion selective electrode x) Bromate ion selective electrode xi) Sulphite/Sulphide ion selective electrode xii) Sulphate ion selective electrode xiii) Sodium ion selective electrode xiv) Potassium ion selective electrode <p>Note: All selective electrode should be supplied including Reference fill solution, all required standard solutions (500\pm100 ml)</p>

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	required standard solutions of complete range and accessories to give precise and accurate results	with NIST / ISO 17034 Certified and accessories to give precise and accurate results
19.	Ion meter should include Propeller stirrer with variable speed for Stirring controlled	Ion meter should include Propeller stirrer with variable speed for Stirring controlled
20.	Should provide additional Electrode Stand	Should provide additional Electrode Stand
21.	Bidder/Manufacturer MUST provide a compliance statement for specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature with clear reference of page number, paragraph or lines. This statement must be signed, with the company seal, by the Tenderer for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the Tender.	Bidder/Manufacturer MUST provide a compliance statement for specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature with clear reference of page number, paragraph or lines. This statement must be signed, with the company seal, by the Tenderer for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the Tender.
22.		Ionic Strength Adjusters (ISA/ TISAB) for all ISE with standard volume as 500±100 ml
23.		Bidder must have to provide instrument qualification (IQ, OQ, PQ) as per GLP
24.	Note-The cost of equipment should include the cost of all essential consumables/accessories/spares etc. to run and successfully installation of equipment at CFRA-NIFTEM	Note-The cost of equipment should include the cost of all essential consumables/accessories/spares etc. to run and successfully installation of equipment at CFRA- NIFTEM
25.	Warranty: 3 year	Warranty: 3 year
26.	AMC: 5 year	AMC: 5 year

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National Institute of Food Technology Entrepreneurship and Management

Deemed to be University (De-Novo Category) under Section 3 of the UGC Act, 1856
(An autonomous Institution under Ministry of Food Processing Industries Government of India)
Plot 97, Sector 56, HSIIDC Industrial Estate, Kundli, Distt- Sonapat, Haryana
Email. niftem.purchasesection@gmail.com Website. www.niftem.ac.in

CORRIGENDUM

Kindly refer to the **Online Tender** No. N/PuS/P/2019/99/15 dated 03.11.2020, as published at CPP portal and also at our website i.e. www.niftem.ac.in uploaded on 03.11.2020 for the supply of ION Selective Electrode. Following corrigendum/addendum may be read against the said tender.

Keeping in view, Pre-bid meeting queries held on 10.11.2020, some changes in specifications is/are required to be made and the same are under consideration, therefore, important dates of the said tender are read amended as under:

Previous details	Revised details
Last Date of bid Submission 23.11.2020, 02.00 PM	Last Date of bid Submission 30.11.2020, 02.00 PM
Technical Bid Opening 24.11.2020, 03.00 PM	Technical Bid Opening 01.12.2020, 03.00 PM

Concerned, IID



M. J. P.
23/11/2020

Officer I/c Purchase



