



Tender enquiry no. Store/Tender/Equipment for Biochemistry/1/2015 dated 11-02-2016

### **Corrigendum for "Equipment for Biochemistry"**

Sr. No.	Page No/ Clause no/ point no	Existing sentence	To be read as
1	Corrigendum dated 04-02-2016	Last date of submission of tender on 12-02-2016 at 3.00PM and opening of tender on 12-02-2016 at 3.30PM	Last date of submission of tender on 23-02-2016 at 3.00PM and opening of tender on 23-02-2016 at 3.30PM
2	Page no. 14 point no. 1	<b><u>Deep Freezer:</u></b> -86 <sup>0</sup> centigrade to -50 degree centigrade, at least 368 liters, manual defrost, adjustable temperature set point with push button digital display, key operated main power switch, integrated over temperature safety alarm with battery backup of at least 1 hour, temperature deviation triggers audible alarm, exterior alarm contacts for connection to remote monitoring system, low voltage fluctuation safeguard, two 1hp copeland compressor, high capacity air cooled condenser with dual condenser fans, washable condenser filters, heavy gauge steel exterior with high impact powder paint finish, heavy gauge steel interior with rounded corners for easy cleaning, minimum 5 inch thick foamed -in - place, CFC free urethane insulation in walls and doors, four stainless steel adjustable interior shelves, at least 5 high impact ABS inner doors with independent door hinges and magnetic latches to close compartments, built in key door lock for security, recessed heavy duty swivel casters, inventory system with stainless steel racks, boxes and 100 cell divider for at least one shelf .	<b><u>Deep Freezer:</u></b> -86 <sup>0</sup> centigrade to -50 degree centigrade, Upright freezer, pull down time of 3-5 hrs, at least 368 liters, CFC/HCFC free refrigerants, manual defrost, adjustable temperature set point with push button digital display, key operated main power switch, integrated over temperature safety alarm with battery backup of at least for 1 hour, temperature deviation triggers audible alarm, exterior alarm contacts for connection to remote monitoring system, low voltage fluctuation safeguard, two 1hp copeland compressor, high capacity air cooled condenser with dual condenser fans, washable condenser filters, heavy gauge steel exterior with high impact powder paint finish, heavy gauge steel interior with rounded corners for easy cleaning, minimum 5 inch thick foam-in-place, urethane insulation in walls and doors, five stainless steel adjustable interior shelves, at least 5 high impact ABS inner doors with independent door hinges and magnetic latches to close compartments, built in key door lock for security, recessed heavy duty swivel casters, inventory system with stainless steel racks, boxes and 100 cell divider for at least one shelf, suitable servo voltage stabilizer to be provided along with it, CE/NIST marked. Power Supply 230v,60Hz.
3	Page no. 14-15 Point no.2	<b><u>Laboratory refrigerator:</u></b> Capacity-300-400L, vertical, CE approved, microprocessor based controller, Adjustable temp-1-8°C,	<b><u>Laboratory refrigerator:</u></b> Capacity-400L, vertical, CE approved, microprocessor based controller, pull down time-1hr, Adjustable temp-1-8°C,

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		Instrument performance should be stable at high ambient conditions as up to +43°C, Automatic defrost and condensate remover, Large easy to read display of temp, Graphic thermometer flashes for over temp /under temp, Senses automatically and initiates defrost cycles minimising frost builder Audible /visual warning for temp deviations and power failure Controller battery backup system for 2 hours Positive forced air circulation system Industrial grade, cabinet construction and compressor Self-closing key locks doors, Single door	Instrument performance should be stable at high ambient conditions as up to +43°C, Automatic defrost and condensate remover, Large easy to read display of temp, Graphic thermometer flashes for over temp /under temp, Senses automatically and initiates defrost cycles minimising frost buildup, Audible /visual warning for temp deviations and power failure, Controller battery backup system for at least 2 hours, Positive forced air circulation system, Industrial grade, cabinet construction and compressor, Self-closing key locks doors, Single door. suitable servo voltage stabilizer to be provided along with it. Power supply 230v.
4	Page no.15 point no.3	<p><b><u>Clinical centrifuge:</u></b></p> <p>Brushless DC motor, microprocessor based, digital display, fixed angle rotor 30 minute timer (on/off switch) Electric Brake, auto cut off if imbalance detected High / Low speed switch Precise RPM setting, Min RPM ≤700 ; Max RPM ≥5,000 rpm's Capacity - 24x15ml Tubes Locking lid automatically release after completion On / Off Indicator light Metal body, Stainless steel centrifuge chamber Suction cup feet ISO 13485:2003, CE approved</p>	<p><b><u>Clinical centrifuge:</u></b></p> <p>Brushless DC motor, microprocessor based, digital display, fixed angle rotor, 30 minute timer (on/off switch), Electric Brake, auto cut off if imbalance detected High / Low speed switch Precise RPM setting, Min RPM ≤700 ; Max RPM 5,000 rpm, Capacity - 24x15ml Tubes , Locking lid automatically release after completion, On / Off Indicator light, one touch short spin &amp; rpm/rcf Metal body, Stainless steel centrifuge chamber ,Suction cup feet, ISO 13485:2003, CE approved. Power supply 230v.</p>
5	Page no.15 point no.4	<p><b><u>Compact dry bath/block heater:</u></b></p> <p>uniform stable steady temperature, incubation between 10 -200<sup>0</sup>centigrade, LED display to match the inblock temperature, along with heating blocks for 15 ml tubes and 1.5ml tubes with heat resistant plastic lids, with at least 6 holding places</p>	<p><b><u>Compact dry bath/block heater:</u></b></p> <p>uniform stable steady temperature, incubation between 10 -125<sup>0</sup>centigrade, LED display to match the inblock temperature, along with heating blocks for 15 ml tubes and 1.5ml tubes with heat resistant lids, with at least 24 holding places, adapter for 8-15ml or 24 1.5ml tubes, CE/FDA approved. Power supply 230v.</p>
6	Page no.15 point no.5	<p><b><u>Colorimeters:</u></b></p> <p>Type- Digital Photo Colorimeter Wavelength Range (nm)- 400 to 700 nm Photo Detector- Silicon Photodiode / Photo Cell Display- 2 ½ digit LED Light Source-Special LED Light Source Sample System-10 mm path length</p>	<p><b><u>Colorimeters:</u></b></p> <p>Digital Photo Colorimeter, Wavelength Range (nm)- 400 to 700 nm, Photo Detector- Silicon Photodiode / Photo Cell, Display- 2 ½ digit LED, Light Source-Special LED Light Source, Sample System-10 mm path length</p>

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		<p>matched glass test tubes, Filters-5 Filters: 450,490,540, 620, 680 nm Solution Volume-1 ml.</p> <p>Power Supply-230 V <math>\pm</math>10% AC, 50 Hz Accessories-Quartz cuvettes of 10 mm path length: (A set of 2), Operation Manual and Dust Cover</p>	<p>matched glass test tubes, Filters-8 Filters: 400,450,490,520,540,570,620, 680 nm, Solution Volume-minimum 1ml. Power Supply-230 V <math>\pm</math>10% AC, 50 Hz, Accessories-Quartz cuvettes of 10 mm path length: (A set of 2), Operation Manual and Dust Cover, CE/FDA approved.</p>
7	Page no.16 point no.6	<p><b><u>PCR centrifuge:</u></b></p> <p>CE approved, closed rotor, low friction, better air flow, low heat generation and whisper quite operation, auto cutt off on sensing imbalance, variable speed-1000 to 6000 rpm, digital display, microprocessor controlled, last run memory function, electronic brake for immediate stop on lid opening, should be able to process 8 to 10 tubes of 1.5/2ml tubes at a time, should be provided with PCR strips of 2x8x0.2 ml rotor and reduction adapters for 0.2/0.4 ml microtubes, small footprints, suitable for use in hoods and cold rooms</p>	<p><b><u>PCR centrifuge:</u></b></p> <p>CE approved, closed rotor, low friction, better air flow, low heat generation and whisper quite operation, auto cut off on sensing imbalance, variable speed-1000 to 13000rpm, digital display, microprocessor controlled, last run memory function, electronic brake for immediate stop on lid opening, should be able to process 8 to 10 tubes of 1.5/2ml tubes at a time, should be provided with adapter for PCR strips of 4x8x0.2 ml rotor and reduction adapters for 0.2/0.4 ml microtubes, small footprints, suitable for use in hoods and cold rooms. Power supply 230v.</p>
8	Page no.16 point no.7	<p><b><u>Vortex mixture:</u></b></p> <p>Neoprene rubber cup accommodates a variety of sizes of test tube/flasks. The housing is 150 <math>\times</math> 150mm approx. Vacuum Rubber pads are provided at bottom.</p>	<p><b><u>Vortex mixture:</u></b></p> <p>Both hands free and touch operations. Neoprene rubber cup to accommodate a variety of sizes of test tube/flasks. 3000rpm or more, attachment for microplate (96 well plate) &amp; micro tubes (1.5ml,0.5ml), digital display with timer setting 0-999 minutes. The housing of 150<math>\times</math>150mm approx. Vacuum Rubber pads at bottom, CE/FDA approved.</p>
9	Page no.16 point no.8	<p><b><u>Magnetic stirrer hot plate:</u></b></p> <p>Durable, chemical resistant, turn knobs to control the accurate temperature and speed, backlight LCD display, of speed and temperature, Max capacity-1L, top plate dimension at least-10 x 10 cm, made up of ceramic; temp range-150- 500°C speed range -100-1000rpm, System should be compatible to hold wide variety of popular glass beakers, flasks, bottles and vessels, Should provide the magnetic beads and retriever</p>	<p><b><u>Magnetic stirrer hot plate:</u></b></p> <p>Durable, chemical resistant, turn knobs to control the accurate temperature and speed, backlight LCD display, of speed and temperature, Max capacity-5L, top plate dimension at least-18 x 18 cm, made up of ceramic; temp range-50- 500°C speed range -100-1200rpm, System should be compatible to hold wide variety of popular glass beakers, flasks, bottles and vessels. CE/FDA approved. Should provide the magnetic beads and retriever magnet should be encapsulated in FDA grade Teflon PTFE low friction coating, durable, inert, and autoclave safe. Power supply 230v.</p>

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10	Page no.16- 17 point no.9	<b><u>Rocking shaker:</u></b> Reciprocating movement 20mm Maximum load~10kgs Speed range 10-50RPM Digital led display with timer Dimension 30Wx30Dx20Hcm Platform dimensions-30Lx30Bcm All the moving parts are fitted with bearing for quite, trouble free and smooth operation	<b><u>Rocking shaker:</u></b> Reciprocating movement 20mm Maximum load~10kgs Speed range 10-50RPM Digital led display with timer Dimension 30Wx30Dx20Hcm Platform dimensions-30Lx30Bcm All the moving parts fitted with bearing for quite, trouble free and smooth operation, CE/FDA approved. Power supply 230v.
11	Page no.17 point no.10	<b><u>Sample Homogenizer:</u></b> suitable for homogenizing of tissues, chuck to hold shaft upto 10mm dia fitted with PTFE grinding pestle (50ml), glass homogenizing cup with rod (5ml,15ml,25ml,100ml), stirring shaft length 8x275mm, impeller-teflon pestle, motor-AC/DC 1/8HP, speed min-300, max-2000, stirring capacity max vol-upto 100ml, with digital speed indicator,	<b><u>Sample Homogenizer:</u></b> suitable for homogenizing of tissues, chuck to hold shaft upto 10mm dia fitted with PTFE grinding pestle (50ml), glass homogenizing cup with rod (5ml,15ml,25ml,100ml),stirring shaft length 8x275mm, impeller-teflon pestle, motor-AC/DC 1/8HP, speed min-300, max-2000, stirring capacity max vol-upto 100ml, with digital speed indicator, 5-8" stainless steel base plate and support post, mounting clamp assembly, CE/FDA approved. Power supply 230v.
12	As mentioned in tender document page no. 1, 2, 3 & 12	EMD/ Turnover/ Experience clause	Revised EMD/ Turnover/ Experience clause as per below table:

Sl. No.	Schedule	Name of the Instrument	Quantity	EMD	Turnover	Experience
1	Schedule-A	Deep freezer	1	₹ 22,500.00	₹ 375,000.00	₹ 250,000.00
2	Schedule-B	Laboratory refrigerator	2	₹ 18,000.00	₹ 300,000.00	₹ 200,000.00
3	Schedule-C	Clinical centrifuge	2	₹ 1,500.00	₹ 25,000.00	₹ 16,667.00
4	Schedule-D	Compact dry bath/block heater	1	₹ 2,700.00	₹ 45,000.00	₹ 30,000.00
5	Schedule-E	Colorimeters	2	₹ 780.00	₹ 13,000.00	₹ 8,667.00
6	Schedule-F	PCR centrifuge	2	₹ 1,200.00	₹ 20,000.00	₹ 13,333.00
7	Schedule-G	Vortex mixture	1	₹ 450.00	₹ 7,500.00	₹ 5,000.00
8	Schedule-H	Magnetic stirrer hot plate	1	₹ 2,100.00	₹ 35,000.00	₹ 23,333.00
9	Schedule-I	Rocking shaker	1	₹ 1,500.00	₹ 25,000.00	₹ 16,667.00
10	Schedule-J	Sample Homogenizer	1	₹ 1,800.00	₹ 30,000.00	₹ 20,000.00

Store Officer  
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