NATIONAL INSTITUTE OF UNANI MEDICINE

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To,

Subject: Invitation of quotation for supply of Instruments/ Items for Ilmul Advia : – reg.
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Sir,

With reference to the subject mentioned above, Quotations are invited from reputed registered dealers for the supply of Hospital items as detailed below.

Sl. No	Name of the Items	Specification /Make	Quantity Required.	Amount (`)	Total GST Amount (`)	Grant Total (`)
01	Fully Automated Hematology Analyzer (RT – 7300)	Parameters: WBC, LYM#, MID#, GRA#, LYM%, MID%, GRA%, RBC, HGB, MCHC, MCH, MCV, SCT, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR and Histograms for WBC, RBC and PLT Principle: Electrical resistance for counting WBC, RBC and PLT Operating Environment: Temperature: 15^0C – 35^0C Humidity: ≤80% Sample Values: Whole blood – 9.8µL; prediluted blood – 20µL Throughout: Up to 60 samples per hour Dimensions: 478mm (L) x 330mm (W) x 395mm (H) Weight: 22.49kg Reagent packs: Diluents – 20L, Lyse – 0.5L, Cleanser – 1L, Concentrated Cleanser – 100ml	01 No			
02	Digital Muffle Furnace BST//MF1800	Max. Temperature -1800 ^{0}c Working temp.-1700 ^{0}c Heating Element-Molybdenum Silicide (MoSi2)	01 No			

		Power supply- 220/440Volt Temperature controller- PID controller Temperature accuracy= +/ 1 ^{0}c (+/- 1.8 ^{0}F) Display - LED/LCD Display Stabilizer – As standard Accessories: 1-Provission for printer 2- Data longer 3- Safety switch on door 4-Temperature chart recorder 5-Extra port gas- Extra heating element & rod with clips 6-Extra thermocouple 7-Tongs 8-Gloves				
03	Infra red Thermometer IR 2200	Backlight LCD display High temperature range : -50 ^{0} C to 2200 ^{0} C (-58 ^{0}F to 3922 ^{0}F) Distance coefficient : 50:1 Type K temp resolution : 0.1^0 to 2000 ^{0}, 1^0 over 2000 ^{0} Response time : Less than 150 ms Basic accuracy: 2% /^{0}F Emissivity Adjustable : 0.1~ 1.0 Spectral response: 0.18 ~14um Auto power off : After 7 second Power supply : 9V Battery x 1pc Dimensions and weight : 260x 155x54mm (295g not including battery) Accessories: Operational manual, Carrying case, 9V battery , Thermocouple wire & stand	01 No			
04	Pyrometer	Model- E450 PL Temperature range(Along sub range adjustable)- 0 ^{0}C-2000 ^{0}C Spectral range- 0.7….1.15 Photo detector type- Si/Si Distance to spot size ratio-80:1 Emissivity-0.1….1.0 adjustable (Single color mode) Emissivity slope-0.75….1.25 adjustable (Two color mode) Response time-20 m sec adjustable up to 10 sec Accuracy- ±0.5% of the measured value + 1^{0}C Repeatability-0.1% of reading	01 No			

		in $^0C+1^0C$ Sighting option-Laser Pilot Light (PL) Analog output-0-20Ma, 4-20mA, 0-10 V (user selectable) USB2.0 Digital output-RS-232/RS-485 interface card (Optional) *At a time one digital output possible Operating temperature. Range-Electronic box and Sensor head up to 70^0C Storage temperature. Range- $-^0C….70^0C$ Relay output- Relay output with hysteresis 60V DC/42V AC RMS, 0.4A Adjustable parameters and features via software-Emissivity, Emissivity slope, Response time, Time, Clear Time (Peak Picker), Analog output, Analog scale (Sub range), Sensor type (Switches b/w 2- color or single color), Switch off level, Unit of temperature ($^0C/^0F$), Communication mode (Comm. Mode), Record feature etc Power supply- Power consumption- Laser power-24 V DC Protection class- IP65 Housing-Sensor Head : Stainless Steel Electronic box: Zinc Isolation- Power supply, *Digital output and analog output are galvanic ally isolated against each other *Not applicable for USB 2.0 digital output Operating humidity-10-95% Non Condensing Conditions Weight & Dimensions- 600g 112.5 mm X 82.5 mm X 33mm (L x W x H)				
05	Shakers & Mixer	Cyclo Mixer CM-101 CM-01/01: Tube adaptor for 18 holes test tubes ø mm CM- 01/02: Platform pad for < ø 99 mm tubes and small vessels	01 No			
06	Tissue organ bath system	Chamber Chamber size(s): 10, 20 or 50 ml Chamber material: Glass	01 No			

		Chamber heating: Heated air-circulation (built-in – patent pending) Temp. range: ambient to<50°C Temp. resolution: 0.1°C Temp. stability: ± 0.1°C Chamber suction: Manual or automatic via software Chamber aeration: Individually via precision needle valve(s) Chamber filling: Manual/automatic via software Dimensions (w.d.h): 55 x 50 x 50 cm Transducer Force range: ± 200 mN to ± 1600 mN (user selectable) Output resolution: 0.1 mN (using filtered signal) Transducer calibration: Semi-automatic (via software) GLP and Maintenance: All parts in contact with experimental agents can be replaced in Reservoir Reservoir volume: 4 x 900 ml Reservoir heating: Electronically (built-in) Safety valve: 10 bar Temp. range: <50°C Temp. resolution: 0.1°C Temp. stability: ± 0.2°C Connectivity Analogue output(s): 4 x BNC / 2.5V FS (filtered signal) or 4 x BNC / raw output Data communication: USB (2.0) Voltage: 100 to 240 VAC (AUTO) 50/60Hz Inlet pressure (regulated): Min. 2.0 bar – max 8.0 bar (internally) Air/gas: One inlet connector on the back Vacuum: One outlet on the back				
07	Grip strength meter	Commands : via soft-buttons Read-out : multifunction graphic display Starting: via keys on the Controller front panel Force Ranges :0-100gf, 0-500gf, 0-1500gf	01 No			

		Force Increasing Rate: PC Force Response: in 0.1gf steps Latency Time: in 0.1s steps Connection to PC:via USB cable (A to mini-B) and GSM software Power Requirement: Operating Temperature: 10° to 40° C Sound Level : Negligible Pollution Degree : ≤ 2 Computer simulated CDs for animal experiment Animal simulator with software Expharm pro+Excology pro				
08	Portable NIBP monitor for animals	Measures photo-plethysmographically pulsatile blood pressure of tail arteries. 2. Measure HR, SBP, MBP and DBP, which should be displayed on LCD. 3. HR is determined by converting the time to count 10pulses. 4. Cuff pressure should be elevated up to 400mmHg so that even Spontaneously Hypertensive Stroke Prone (SHRSP) rats can be determined. 5. Continuous measurement should be done up to 6 times 6. Preheat and measuring box should be provided along with the Standard system 7. Apparatus should be compact A4 size 8. Simple operation provided with interface, Data collection software (windows version) and Printer 9. Animal holders which are brown acrylic material and Cuff pulse sensor should be provided with the standard system.	01 No			
09	Pressure analgesiometer	1. Simple operation for Measuring inflamed rodent paw according to Randall selitto test and displays pressure digitally. 2. Measuring range of 0-250 mm Hg with speed of 10 mmHg/sec 3. Time measurement can be	01 No			

		done by Pedal switch which exerts force 4. 3 digit LCD display 5. Data collection software (windows version) with USB serial cable and Printer should be provided with the standard unit.				
10	Melting Point Determination Apparatus	Automated melting point system with digital images, Thermometer Input and Timers, Automatic and visual determination, PID-controlled temperature ramping, Digital movie of each melt, Computer control, Conforms to Pharmacopeia & GLP, Printer output	01 No			
11	Stalagmometer	Model stalagmometer (5ml)	01 No			
12	Moisture Meter	Heating system: Halogen Temp range: 50-200^{o} C Accuracy 0.01% or more Weighing capacity 35 g (remove), Readability 1 mg, 0,01 % Line voltage 115 V / 230 V ? Recommended moisture range 1 - 100% Heating source Metal rod heater,robust Number of measuring programs***1***	01 No			

The quotations may be submitted in a sealed cover quoting the competitive rate with specification by clearly mentioning taxes applicable if any., time required for supplying the items with the terms & conditions, Copy of GST Certificate may kindly be enclosed.

The envelope containing quotation should be super scribed as **"Quotation for supply of Instruments/ Items for Ilmul Advia"**

The last date for the submission of quotation is: **21/11/2017.**

Your's faithfully,

Sd/-
(Suresha)
Accounts Officer.

Distribution :

1.Prof.Abdul Wadud HoD, Dept. of Ilmul Advia, for information.
2.Website in-charge for information and to upload quotation in NIUM- website.
3.Concern file.
4.Guard file.