Technical Specifications

Item No.	Description	Bidder's S
	Lot 1- Analytical Instruments	
1	HPLC Column Oven, Shimadzu - 1 Unit	
1	LC: 20AD	
2	HPLC Pump and Mixer - 1 Unit	
	LC-20AD Shimadzu	
3	Vacuum Oven with Shaker - 1 Unit	
	Vacuum range: 0.30"Hg	
	Capacity: 1 cu ft	
	Temperature: 5-200°C	
4	Potentiostat - 1 Unit	
	3 Electrode Potentiostat	
	Capable of doing:	
	1. cyclic voltametry	
	2. linear scan voltametry	
	3. square wave voltametry	
	4. stripping techniques (anodic stripping voltametry)	
	5. amperometry	
	Comes with (if possible 3 of each electrode for free):	
	1. reaction cell	
	2. working electrode	
	3. reference electrode	
	4. counter electrode	
	5. computer and software	
	Warranty:	
	1. Service should be available (by phone or actual service)	
	2. parts should be available	
	3. Warranty should be specified.	
	Training:	
	Technician should be able to provide training upon	
	installation of the equipment by doing sample experiments	
	e.g. cyclic voltametry, anodic stripping voltametry	

em No.	Description	Bidder's
5	Infra Red Moisture Meter - 1 Unit	
	Measurement range: 0.01% - 100% of moisture content	
	Maximum capacity: 110g	
	Measurement range of solid content 100%- 0.01%	
	Heating temp: 40-200°C	
	Readability: 0.01%	
6	Vacuum Pump - 1 Unit	
U	Oil-free or dry	
	Voltage: 220V Max power: 180W	
	Max vacuum: 650mmHg	
	Motor rotation: 1450rpm	
	Horse power: 1/4hp	
	Port thread: 5/16 in or 8mm	
	Dimension (LxWxH): 34x18x20cm	

Item No.	Description	Bidder's S
	Lot 2- Centrifuge and Spectrophotometers	
1	Bench Top Centrifuge - 2 Units	
_	Timer: 0-30min	
	Max: RCF xg 1350	
	Capacity: 8x3 to 15mL tubes	
2	Refrigerated Centrifuge - 1 Unit	
	Temp range: -10 to 40°C	
	Max capacity: 50mL x 6 Speed: 18,000rpm	
3	Spectrophotometer (visible range) - 1 Unit Double beam	
	Visible spectrum only (325-1000nm)	
4	Microplate 96 Well Elisa Reader - 1 Unit 400-700 spectral range Measuring range: 0-2.5 OOD	
	Detector: 8 solid state detector	
	Calculation: A, [], multistandard curves	
	Built-in printer	
5	Spectrophotometer Microtiter Plate Reader - 1 Unit	
5	Physical characteristics:	
	Connectivity: RS232 port	
	Power: 100-240 volts AC 50/60 Hz	
	Dimensions: 8.5"Wx16"Dx8.5"H	
	Weight: 24 lbs (11 kg)	
	General:	
	Detection modes: absorbance	
	Read methods: End, Point, Spectral, Linear Scanning	
	Microplate types 96- and 384-well plates	
	Temperature control 4 Zone mt Incubation: Ambient $+4^{\circ}$ C to 50°C;	

tem No.	Description	Bidder's
	Lot 2- Centrifuge and Spectrophotometers	
	(continuation):	
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5	Spectrophotometer Microtiter (continuation)	
	Variation $\pm 0.2^{\circ}$ C at 37° C	
	Shaking: Linear	
	Software: Gentm Data Analysis Software	
	Automation biostack and 3rd Party automation compatible	
	Absorbance:	
	Light source: Xenon flash	
	Wavelength selection: monochromator; selectable 1 nm or	
	greater increments	
	Wavelength range: 200 to 999nm	
	Bandwidth: 5nm	
	Dynamic range: 0-4.0 OD	
	Resolution: 0.001 OD	
	Monochromator wavelength accuracy: ±nm	
	Monochromator wavelength repeatability: ±nm	
	OC accuracy: $1\% \pm 0.01$ OD	
	OD linearity: ±1%	
	OD repeatability: 0.5% ±0.005 OD	
	Stray light: 0.03% at 230nm	
	Reading speed: 96 wells: 5 seconds,,,384 wells: 11	
	seconds	
6	Multifuge XLR Refrigerated Centrifuge - 1 Unit	
	Temperature range: -10 to 40°C	
	Max RCF x g: 25,830	
	Power: 230VAC, 60Hz	
	RPM: ≥24,000 RPM	
	Display: LCD display of temp, RPM, time and rotor used	
	Operating mode: RPM or RCF and or weight	
	Variable run time: Timer setup for long run and also set time	
	in hours and minutes with	
	Alarm at completion	
	Capacity:	
	Multi-purpose rotors: centrifugation rotors for different	
	volume tubes: 1.5/2.0ml; 15ml; 50ml	

Item No.	Description	Bidder's S
	Suitable tubes required for the rotors (200 each set) System with auto lock facility, with safety for over speed/imbalance/temperature Automatic functioning of speed and timing Limit/door detector UPS	
7	Centrifuge with Angle Rotor - 1 Unit 6 Boreholes for different tubes (max tube size: 85mL) Max RCF: 15,550 x g (11,000rpm) Light weight design: 3.25 icl. Lid for easier handling	
	Material: adonized aluminum for high chemical resistance Rotors and lids autoclavable (20 mins, 121 degrees Centigrade)	

Item No.	Description	Bidder's §
	Lot 3- Processing Equipment	
1	Warner Bratzler Shear Machine - 1 Unit	
	With vee-shaped cutting blade	
	Balde thickness: 0.040 inch	
	Spacer providing gap for the cutting blade to slide through Should be about 2.08 mm thick	
	Provided with 0.5 inch cork borer	
2	Table Type Silent Cutter - 1 Unit	
	Capacity: 2 kg with stainless steel bowl and blade	
	Knife Rotation: about 24 rpm	
3	Vacuum Packaging Machine - 1 Unit	
	Table-type model	
	With stainless chamber	
	Maximum bag size: 400x500	

4	Bottle Sealer - 1 Unit Manual sealing machine Manually operated	
	Can be used to seal 2 oz, 4 oz, 6 oz, and 8 oz cup Equipped with 75 and 115 mm nest insert	
5	Can Sealer - 1 Unit Can Height: 30-320 mm Can Diameter: 40-220 mm Semi-automatic	
	Warranty: At least one (1) year	













