TECHNICAL SPECIFICATION				
Non Refrigerated Centrifuge Machine for General Purpose				
Sr. No.	Description	Specification		
1.	Purpose	To centrifuge different kind of samples at room temperature		
2.	Model	Bench Top		
3.	Capacity	6 Nos X 50 mL		
4.	Speed	6000 RPM Selectable and Variable		
5.	RPM Accuracy	± 5%		
6.	Diving Motor	Brushless		
7.	Noise Level	< 60 dB		
8.	Timer	0 to 60 min or permanent mode and automatic cut-off		
9.	Display	LCD		
10.	Controller	Microprocessor		
11.	Type of rotation	Angle Rotor		
12.	Auto cut off	Yes		
13.	Temperature	Ambient		
14.	Safety	Door interlock, Over speed detection, Over temperature detection, Vibration detector, Hazard Reduction caps for sample tubes and cover Lid closed detector and Automatic internal diagnosis.		
15.	Installation & Demonstration of instrument	Yes		
16.	Certificate	Yes		
17.	Graduated Centrifuge tube 50 ml	a. Glass- 24 Nos.		
		b. PP- 24 Nos.		
18.	Program Memory	Memory of > 50 data sheets		
19.	Power Supply	220 V AC		

20.	Warranty	1 Year
21.	Supplier should provide all required essential accessories, Power supply accessories, Spanners, Data sheet and Catalogue, QAP with factory inspection report/MTC. Operating manual/Installatimanual, Warranty Certificate	

TECHNICAL SPECIFICATION

DIGITAL FLAME PHOTOMETER WITH RELATED ACCESSORIES

Scope: Microprocessor based four channels Flame Photometer to analyze Na, K, and Ca in the utility water sample

Sr. No.	Description	Specification	
1	Digital Flame Photometer for determination of sodium, potassium and calcium with simple and easy to operate. Having narrow band interference filters, preferably dual channel for simultaneous observation of Na & K with single aspiration, conveniently accessible nebulizer and auto ignition. The system is equipped with air compressor, air filtration valve, sprayer, and atomizing chamber.		
2.	Display	LED	
3.	Element Analyzed (min)	Na ⁺ , Ca ⁺ , K ⁺	
4.	Measuring Range (Min.)	0.5 to 100 ppm	
5.	Read out	mmol/L	
6.	Sancitivity	Na+ & K+: - 5 ppm	
0.	Sensitivity	Ca++: - less than 10 ppm	
7.	Reproducibility	Less than 0.5 %	
8.	Accuracy	+/- 2% up to 40 ppm	
0.		+/- 5% above 40 ppm	
9.	Reading Stabilization	Software command	
10.	Recorder output	50 mv to 7.5 mv via software Command.	
11.	Air Supply	Oil & Moisture free air supply at 15 psi (6 lit/min)	
12.	Fuel Supply	High grade Propane, Butane or Propane Butane mixture regulated at approx. 30 psi pressure.	
13.	Safety	Flame Protection Device	
14.	Interface	USB	
15.	Installation & Demonstration of instrument	Required	
16.	Certificate	Required	

17.	Power Supply	220-240V, 50Hz.
18.	Warranty	1 Year
19.	Supplier should provide all required essential accessories, Instruction manual, Power supply accessories, Data sheet and Catalogue, QAP with factory inspection report/MTC. Operating manual/Installation manual, Warranty Certificate and 500 ml of Certified Reference Material having traceability of National or International standard for each component.	

TECHNICAL SPECIFICATION					
	Portable Multi Gas Detector				
Sr. No.	Description	Spo	ecification		
1.	Display	Digital High-contrast colo	ur display		
2.	Housing	Durable two-component h	ousing		
3.	Temperature	- 20 to 50 °C			
4.	Pressure	700 to 1,300 hPa			
5.	Relative humidity	10 to 90 % (short-term up	to 95 %) r.h.		
	Alarms	Visual: 3 LED 'red' (gas a	larms),		
6.		3 LED 'yellow' (device alarms)			
		Acoustic: Multi-tone, typically 100 dB(A) at 30 cm			
	Measuring Gases	Component	Range	Resolution	
		O_2	0-25 vol. %	0.1 vol. %	
7.		H ₂ S	0-100 PPM	0.1 PPM	
		СО	0-200 PPM	1 PPM	
		NH ₃	0-100 PPM	1 PPM	
8.	Start-up times	< 60 Sec.			
9.	Operating times (Diffusion)	Min. 24 Hrs.			
10.	Power Supply	Lithium-ion battery, Rechargeable			
11.	Charging times	4 hours after use during a shift of max. 10 hours			

12.	Certificate	Required
13.	Installation & Demonstration	Required
14.	Warranty	1 Year for Sensor and 1 Year for overall
15.	Supplier should provide all required essential accessories, Power supply accessories, Spanners, Data sheet and Catalogue, QAP with factory inspection report/MTC. Operating manual/Installation manual, Warranty Certificate	

TECHNICAL SPECIFICATION

Automatic Viscometer for Analysis of Viscosity in Lube and Hydrocarbon Liquid Samples

Scope: Automatic Viscosity analyzer capable to analyze kinematic viscosity of various petroleum product using ASTM methods at different temperatures range using high temperature option.

Sr. No.	Description	Specification
1.	Method Compliance	ASTM D7042 & D445
2.	Display	Full Automatic Digital /Microprocessor controlled of Temperature and etc.
3.	Display Resolution	Viscosity : 5 significant digits
3.	Display Resolution	Temperature : 0.01 ⁰ C
4.	Temperature	+20 to 100 °C
5.	Temperature Accuracy	± 0.02 °C or Better
6.	Measurement Range (Viscosity)	0.3 to 3000 mPa.s (mm ² /s)
7.	Viscosity Accuracy	0.10%
8.	Heating	Required
9.	Interface	4 x USB
10.	Data Storage	In Built Memory up to 1000 data sheet
11.	Sample Requirement	Max. 5 ml
12.	Control	Touch screen
13.	Data communication	System must required data communicate to printer and PC
14.	Certificate	Required
15.	Installation & Demonstration of instrument	Required
16.	Warranty	1 Year
17.	Certified viscosity standard	4 Nos. (each 100 ml)
18.	System must have facility of automatic cleaning & drying including with provision of solvent tank.	
19.	Supplier should provide all essential spares, viscosity standard having certificate traceable to National / International standard and consumables etc for smooth operation.	

20.	Facility of adjustable drainage rack to drain excess sample oil from tubes prior to cleaning to a suitable waste container or chemical drain for removal of waste oil and solvent
21.	Supplier should provide all required essential accessories, Power supply accessories, Spanners, Data sheet and Catalogue, QAP with factory inspection report/MTC. Operating manual/Installation manual, Warranty Certificate

TECHNICAL SPECIFICATION				
	Double Walled Water Bath with 6 Holes			
Sr. No.	Description	Specification		
1.	Display	Digital Display		
2.	Temperature Control	Microprocessor based PID Controller and Indicator		
3.	Temperature	+20 to 100 °C		
4.	Temperature Accuracy	\pm 0.5 0 C or Better		
5.	Heat time	Heat up time to 70°C should be less than 45 min		
6.	Temperature Resolution	0.1 °C or Better		
7.	Capacity	20 Litre		
8.	Valve	Drain valve for easy draining of bath solution		
9.	Holes	6 Holes on the top		
10.	Insulation	Rockwool Insulation		
11.	Controller	PID		
		Inner chamber and Lid: Stainless Steel (SS-304 grade)		
12.	MOC	Outer chamber: Mild Steel duly powder Coated		
		Special grade mineral wool		
		Thermostatic temperature controller		
13.	Control	Wait On/Off timer. (up to 999 hours 59 minutes)		
		Heating and mains indicators		
14.	Power	220 V / 50 Hz		

15	Safety fetures	Safe structure in which the heater, sensor, and pump inside the bath are separated by covering plates to protect users and samples against direct contact, Complete safety protection system with warning alarms- Low fluid level and dry-running, overtemperature, over-current, Convenient for carrying and moving with handles on the left and right sides.
16.	Sensor	PT-100
17.	Certificate Required	
18.	Installation & Demonstration	Required
19.	Warranty	1 Year
20.	Supplier should provide all required essential accessories, Power supply accessories, Spanners, Data sheet and Catalogue, QAP with factory inspection report/MTC. Operating manual/Installation manual, Warranty Certificate	

TECHNICAL SPECIFICATION			
Laboratory Hot Plate, Rectangular, Digital			
Sr. No.	Description	Specification	
1.	Controller	PID Controller	
2.	Display	Independent display for SET & ACTUAL values	
3.	Sensor	PT100 temperature sensor	
4.	Temperature	Ambient ±5 to 350°C	
5.	Temperature Accuracy	±0.5°C; Resolution – 0.1°C	
6.	Outer Body	Powder-coated MS outer body for long-life	
7.	Top body	Ceramic-glass plate	
8.	Element	High-quality heating elements	
		Overload protection	
9.	Safety features	Mains & Process Indicator	
		Non-Slip Feet	
10	Input voltage	230 VAC \pm 10, 50-60 Hz	
11	Temperature probe	PT100	
12	Certificate	CE-approved detachable power-cable	
13	Installation & Demonstration of instrument	Required	
14	Warranty	1 Year	
15	Pan size	40 x 25 cm (16 x 10")	
16	power rating	1200 W	
17	Supplier should provide all required essential accessories, Power supply accessories, Spanners, Data sheet and Catalogue, QAP with factory inspection report/MTC. Operating manual/Installation manual, Warranty Certificate		