


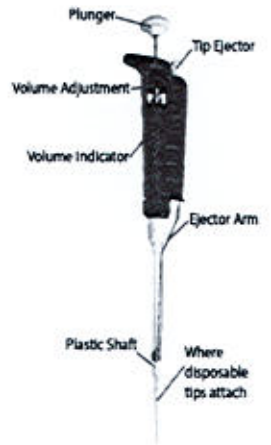
- Note: The Items supplied for this project must be of a very high quality and must be from companies with high reputation and must comply with IEC 61010-1:2010 and comply with EC standards and manufactured under ISO 9001:200

The bids must be accompanied with the following:

- 1- Detail catalogue of the item or a pamphlet which provide all related information
- 2- Profile/s of the product manufacturer indicating the website and other related information.
- 3- Country of manufacturing of the products
- 4- Warranty status and after sales service (if calibration or repair is needed)

NO	ITEM	SPECIFICATION	QUANTITY	Your Brand and Specification
1.	Autoclave (Table top) (Front-loading, bench-top autoclave) Boeco, Systec or Zirbus or any other reliable brand 	<ul style="list-style-type: none"> LCD display and fully automatic microprocessor control Internal memory for storing up to 500 sterilization cycles Autofill: automatic demineralized water feed for steam generation F Flexible temperature sensor and additional temperature sensor in condense exhaust Programmable automatic door-opening on completion of program Water-cooled steam exhaust, thermostatically controlled Overheat protection Process evaluation system Pressure auto door lock Emergency stop button Pressure overload protection Customization program Chamber size: 45 - 50 L 	01	




2.	<p>Micropipette</p> 	<ul style="list-style-type: none"> • Volume locking system • Adjustable tip ejector • Reliable results • Autoclavable 		
2.1	Micropipette (0.5-10u)		6	
2.2	Micropipette (2-20ul)		6	
2.3	Micropipette(100-1000ul)		6	

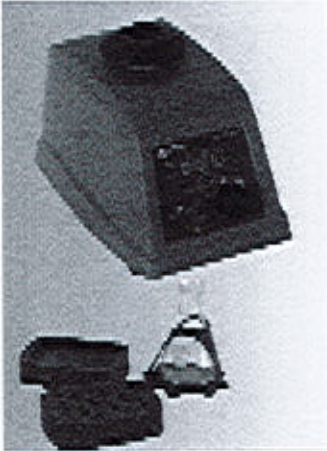
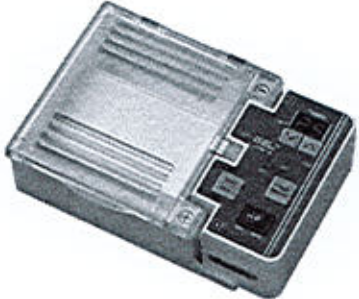


3	<p>Water Bath</p> <p>Boeco (PWB 8) , Systec or Zirbus or any other reliable brand</p> 	<ul style="list-style-type: none"> • Tank Volume, liters: 10 L • Useful Volume, liters: 8 L • Temperature Range: Ambient Temp + 5°C / 99,9°C • Displays: LED Displays for Temperature and Time • Temperature Set and Display Sensitivity 0,1°C • Temperature variation @37°C ± 1°C* • Temperature fluctuation @37°C ± 1°C* • Programmable Alarm Limits ± 0,5°C / 5°C • Timer 1 minute – 99,9 hours + Hold Position • Delayed Start Timer 1 minute – 99,9 hours 	1	
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4	<p>Class II Biosafety Cabinet</p> 	<ul style="list-style-type: none"> • Airflow Pattern (downflow / exhaust) 70% / 30% • Filter with 99.999% efficiency against 0.3µm particles, 99.995% filter efficiency for MPPS at 0.1µm • Digital display • UV light and regular light for illumination • Noise(dB) ≤60 • Downflow ULPA Filter • Exhaust ULPA Filter • Type Class II, Type A2 	1	
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5	<p>Vortex mixture</p> 	<ul style="list-style-type: none"> • Motor: brushless DC motor • Kind of motion: orbital, 4 mm • Speed range: 300 - 4200 rpm. / speed accuracy: ± 10 rpm • Max. loading capacity: 500 g • Display: digital speed / time setting • Switch: ON / OFF / Touch • Pulse mode (default): vibration for 5 secs. than pause for 5 secs. Pulse mode (programm) vibration time & pause time can be defined by user between 1 to 99 secs. • Timer 1 to 999 mins. & continuous mode 	2	
6	<p>Gel Electrophoresis Machine with Gel</p> 	<ul style="list-style-type: none"> • Gel Mini electrophoresis system • Output Voltage: 35V, 50V or 100V • Timer: 0-99 minutes or continuous • Safety: magnetic and mechanical lid interlock • Max. Buffer Volume: 230ml • Gel Capacity: one 10.5 x 6 cm or two 5 x 6 cm • Include 2 casting sets 	1	

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Thermal Cycler



- 96 × 0,2 ml tubes and 96well plates
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- Heating speed of ramping: up to 4,0°C /sec
- Cooling speed of ramping: up to 4,0°C /sec
- Block temp. uniformity: $\leq \pm 0,3^{\circ}\text{C}$
- Block temp. accuracy: $\leq \pm 0,1^{\circ}\text{C}$ (55°C) $\leq \pm 0,2^{\circ}\text{C}$ ($\geq 90^{\circ}\text{C}$)
- Display resolution: $0,1^{\circ}\text{C}$
- Temp. control mode: Block or Tube
- Ramping rate adjustable: $0,1^{\circ}\text{C} - 4^{\circ}\text{C}$
- Memories: 250 typical programs (unlimited by USB)
- Max. cycles: 99 cycles for Nested PCR
- Time up/down: 0-9 min59s, suit for LongPCR
- Temperature up/down: $0,1 - 9,9^{\circ}\text{C}$ suit for Touchdown PCR

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<p>8</p>	<p>Real Time PCR</p> 	<ul style="list-style-type: none"> • Plate-based real-time PCR system with 96-well block • Temperature gradient (assay optimization) • Standalone system (integrated PC) • Touchscreen with separate instrument software (free to load on any PC) • Dynamic range of 10 log • Sensitivity of one copy • 4-plex multicolor • Runtime of less than 1 hour • Applications: Absolute Quantification, Relative Quantification, Endpoint Genotyping, Melting Curve Analysis • Must include PC analysis software 	<p>1</p>	
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Benchtop Microcentrifuge



Controls and displays

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- During centrifugation the actual values of the parameters are indicated
- Entry of the running parameters via foil keypad
- Speed display in RPM or RCF
- RPM input from 200 to 10.000 in steps of 10, starting from 10.000 to the maximum speed in steps of 100
- RCF input from 200 to 10.000 in steps of 1, starting from 10.000 to the maximum speed in steps of 10
- Time t/min: 1 - 99 min. in steps of 1 min.,
- Time t/sec: 1-59 sec. in steps of 1 sec.,
- Continuous operation
- Brake stage, selectable between fast and slow
- Pulse key: For short centrifugation operations
- Open lid key


Safety

- Lid locking and holding device
- Emergency lid lock release
- Motor overheating protection
- Imbalance switch-off
- Deep metal rotor chamber (die-cast-zinc) to securely accommodate the rotor




		<ul style="list-style-type: none"> • The MC-24 conforms to safety regulations such as IEC 61010 or the • CE mark and all relevant EC standards and DIN norms and has been • manufactured under ISO 9001:2008 <p>Technical details</p> <ul style="list-style-type: none"> • Max. RPM (speed) / RCF: • 14,000 rpm / 18,845 RCF • Noise level: • 59 dB(A) • Emission / Immunity: • EN / IEC 61326-1 class B / FCC class B 		
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10	<p>Mercury Sphygmomanometer</p> 	<ul style="list-style-type: none"> • Desk model mercury sphygmomanometer • Precision Glass Tube with easy to read graduated scale • Fine Quality of Adult Cuff and Inflation System • Measurement Scope: 0-30mm-Hg (Littman brand or equivalent) 	20	
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11	<p>Stethoscope</p> 	<ul style="list-style-type: none"> • Tunable diaphragm: Hear high or low frequency sounds by slightly adjusting pressure on the chest piece. • Dual-lumen tubing: Two sound paths in one tube eliminates the rubbing noise of traditional double tubes. • Headset is easily adjusted for individual fit and comfort. Angled ear tubes align with ear canals. • Include Special Procedures Adaptor for pediatric or neonatal auscultation. <p>(Littman brand or equivalent)</p>	20	
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(Handwritten signature or initials in blue ink)

12	Disarticulated human skeleton model	<ul style="list-style-type: none"> • Good quality plastic models of bones of the human body • Packaged as separate bones of the skeletal system 	3 Sets	
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