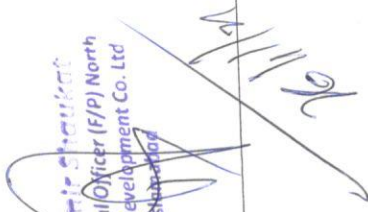


TOR's / Specifications of Lab Equipments


OGDCL Required Specification

S.NO	Description	OGDCL Required Specification
01	Hematology Analyzer	<p>Features</p> <ul style="list-style-type: none"> • User friendly compact design. • Flexible aspiration modes. • Large data capacity over 1500 results can be stored. <p>Measuring Range: WBC: White blood cell count MEK-6400/6410: 0 to 59 x 103 /μL* MEK-6420: 0 to 99 x 103 /μL within 2.0%CV (4.0 to 9.0 x 103 /μL) LY%: Lymphocyte percent 0 to 99.9% within 5.0%CV (WBC: 4.0 to 9.0 x 103 /μL, LY%: 20 to 45%) MO%: Monocyte percent 0 to 99.9% within 12.0%CV (WBC: 4.0 to 9.0 x 103 /μL, MO%: 2 to 10%) GR%: Granulocyte percent 0 to 99.9% within 5.0%CV (WBC: 4.0 to 9.0 x 103 /μL, GR%: 40 to 70%) LY: Lymphocyte count MEK-6400/6410: 0 to 59 x 103 /μL* MEK-6420: 0 to 99 x 103 /μL MO: Monocyte count MEK-6400/6410: 0 to 59 x 103 /μL* MEK-6420: 0 to 99 x 103 /μL GR: Granulocyte count MEK-6400/6410: 0 to 59 x 103 /μL* MEK-6420: 0 to 99 x 103 /μL RBC: Red blood cell count 0 to 14.9 x 106 /μL within 1.5%CV (5.0 x 106 /μL) HGB: Hemoglobin concentration 0 to 29.9 g/dL within 1.5%CV (16 g/dL) HCT: Hematocrit 0 to 99.9% MCV: Mean cell volume 20 to 199 fl within 1.0%CV (70 to 120 fl) MCH: Mean cell hemoglobin 10 to 50 pg MCHC: Mean cell hemoglobin concentration 10 to 50 g/dL RDW: Red blood cell distribution width 0 to 50% PLT: Platelet count 0 to 1490 x 103 /μL within 4.0%CV (3.0 x 103 /μL) PCT: Platelet crit 0 to 2.9% MPV: Mean platelet volume 0 to 20.0 fl PDW: Platelet distribution width 0 to 50% Hematology Control: MEK-3DN (normal) T455 MEK-3DL (low) T455L MEK-3DL (high) T455H 2ml MEK-CAL T457 (2ml)</p> <p>Calibrator</p>

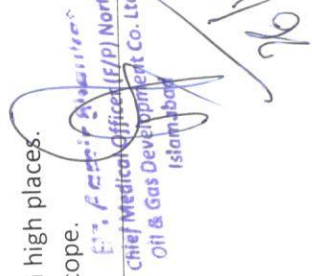

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<p>T455:</p> <p>T450 phosphorylation can prevent the activation loop from cracking and keep the alphaC helix in an active-like conformation, whereas phosphorylation of T455 only slightly stabilizes the activation loop.</p> <p>Detergent Cleaned Dimensions and Weight:</p> <ul style="list-style-type: none"> • Dimensions: 230 W x 450 D x 383 H (mm) • Net weight: approx. 18 kg <p>Environmental Conditions:</p> <ul style="list-style-type: none"> • Storage temperature: -20 to 60°C • Operating temperature: 15 to 30°C • Storage humidity: 10 to 95% • Operating humidity: 30 to 85% (Non-condensing) • Storage atmospheric pressure: 70 to 106 kPa • Operating atmospheric pressure: 70 to 106 kPa • Operating altitude: less than 3000 m <p>Power Requirements</p> <ul style="list-style-type: none"> • Power requirements: MEK-6400J, 6410J, 6420J: 110 to 127 V ±10% AC, 50/60 Hz • MEK-6400C/K, 6410C/K, 6420C/K: 220 to 240 V ±10% AC, 50/60 Hz 	<p>02 Chemistry Analyzer</p> <p>PRODUCT DETAIL Specification;</p> <p>Wave length range automatic by 12 position Veterinary Use, Research use. 12W-20W Metal with quartz windows, measuring volume 30 µL.</p> <p>Light Source: -0.1 to 2.3 absorbance Flow Cell: Programmable 0 to 999 seconds. Photometric Range: Photo diode (320-1000 nm) Delay time: By means of Peltier elements, Fixed temperature at 35°C. Detector: Automatic zero second. Temperature Control: 100-240 VAC nominal, 50/60Hz, Battery backup to retain data. Blanking: 40 x 17 x 36.5 cm (W x H x D) Power Requirements: 8.5 kg Dimensions: Two control per tests, QC survey of last 30 controls. Weight: Bench-top Quality control: 8.5 kg Type: Bench-top</p> <p>03 Electrolyte Analyzer</p> <p>Features:</p> <ul style="list-style-type: none"> • Measurement Parameter: Na, + K, + Cl- • Measurement Sample:
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<p>Hemo-Dialysis Solution A (Acid Concentrates), Solution B (Bicarbonate), Solution A+B Balanced Whole Blood, Plasma, Serum, Diluted Urine</p> <ul style="list-style-type: none"> • Measurement Speed: 300 tests/hour • Newly developed high sensitive electrode allows only one-time calibration in a day to obtain very accurate result of C.V. 0.5% <p>Blood/Hemo-Dialysis Solution Measuring System Fully Automated Electrolyte Analyzer</p> <p>Measurement method: Fully automated system with ion selective electrode. Sample volume: 95ul (blood mode), 300ul (Hemo-Dialysis mode) Measurement speed: 100 samples/hour (Max.), 35 seconds/sample with Stat mode. Test parameters: Blood, Serum, Plasma Urine (Diluted) Na+ 70.0-200.0 (mmol/L) 10.0-500.0 (mmol/L) K+ 1.00-20.00 (mmol/L) 1.00-100.0 (mmol/L) Cl- 70.0-200.0 (mmol/L) 10.0-550.0 (mmol/L) Solution A (Acid Concentrates) Solution B (Bicarbonate) A+B balanced Na+ 100.0-120.0 (mmol/L) 20.0-40.0 (mmol/L) 130.0-150.0 (mmol/L) K+ 1.00-3.00 (mmol/L) 1.00-3.00 (mmol/L) Cl- 100.0-120.0 (mmol/L) 100.0-120.0 (mmol/L)</p> <p>Auto-sample: Built in (20 sample positions) Function</p> <ol style="list-style-type: none"> 1) Sample cup auto-detection 2) Sample volume auto-detection 3) Auto re-test function for abnormal data 4) Auto positioning from first set sample 5) Electrical potential of each electrode can be checked <p>Calibration: Two-point automatic calibration (interval is adjustable) Calculation of the X and C.V. %. Setting up normal range</p> <p>Test functions: 500 patient data. 100 QC data</p> <p>Data memory: RS-232C built in</p> <p>On-line: LCD display with a back light (20 digits, 4 lines)</p> <p>Display: Thermal printer</p> <p>Printer: reader Option</p> <p>Barcode: 14 kg</p> <p>Weight Approx. 240 (W) x 410 (D) x 350 (H) mm</p> <p>Dimensions: AC 110/220 V ±10%, 50/60 Hz</p> <p>Power:</p>	<p>Features</p> <ul style="list-style-type: none"> • Ergonomic grips add safety when retrieving the microscope from high places. • Colored grips indicate the appropriate places to hold the microscope. • Smooth, rounded design eliminates sharp edges.
<p>04</p>	<p>Microscope</p>


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This microscope is one of the lightest in its class, with a total weight of approx. 5.9 kg(13.01 lbs)

- The arm is angled to keep user's wrists in a comfortable, neutral position.
- The eyepiece can be fixed in place to help prevent damage or loss during transportation.
- A reckless stage and stage cover enable safety and stability during long periods of use.
- A locking pin keeps the observation tube in place.
- Interpupillary adjustments, ranging from 48 to 75 mm, enables individual users to set it to their needs.
- Eyepoint adjustments accommodate the user's height and provide greater comfort.
- Left and right diopter adjustment enable optimal focus for each eye.
- An inward-facing rotating nosepiece facilitates a larger working area above the stage, enabling easier operation and specimen exchange or making it easier to apply oil to immersion objectives.
- Objectives with long working distances provide clearance for thick samples and slides.
- Bring specimens into focus quickly by using the coaxial knobs for fine or coarse adjustments.
- The microscope is built for durability and precise control, whether accessed from the left or right side.
- A torque release function helps prevent damage if excess force is applied to the coarse focusing knob or stage knob.
- The focus lock helps prevent the objectives from damaging the specimen.
- Field number (FN) of 20 provides a wide field of view.
- The CX23 microscope features plan achromat objectives that preserve outstanding image fidelity throughout the field of view.
- The energy saving LED light source provides a long operation lifetime of 20,000 hours.
- Daylight balanced LED illumination preserves the vivid colors on HE-stained samples.

Specification:

Body: Aluminum die-cast metal frame, protective plastic covering

Optical System: Infinity optical system

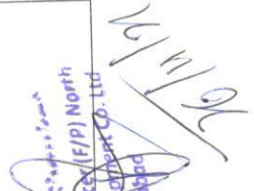
Illumination: System Built-in transmitted illumination system
LED power consumption: 0.5 W (nominal value)

Focusing: Stage height movement, Coarse movement stroke: 15 mm, Coarse adjustment limit
Torque adjustment for coarse adjustment knob • Fine focus knob (minimum adjustment gradations: 2.5 μm)

Revolving: Nosepiece Fixed quadruple nosepiece with inward tilt.


Stage: Wire movement mechanical fixed stage
Size (W x D): 174 mm x 89 mm, Traveling range (X x Y): 76 mm x 30 mm
Specimen holder, Specimen position scale.

Objectives: Plan Achromat, anti-fungal
4X NA 0.1 W.D. 27.8 mm


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		<p>10X NA 0.25 W.D. 8.0 mm 20X NA 0.4 W.D. 2.5 mm (optional) 40X NA 0.65 W.D. 0.6 mm 100X Oil NA 1.25 W.D. 0.13 mm (CX23LEDRFS1 built-in, CX23LEDRFS2/RTFS2 optional)</p> <p>Dimensions (W x D x H): 198 mm x 398 mm x 386 mm, 198 mm x 398 mm x 430 mm</p> <p>Weight Approximately: 5.9 kg Approximately 6.5 kg</p> <p>Rated Voltage/Electric Current: AC 100 – 240 V 50/60 Hz 0.4 A</p> <p>Power Consumption: Less than 2 W</p>
<p>05</p> <p>Urine analyzer</p>	<p>Features</p> <ul style="list-style-type: none"> • Printed records • Automatic checks • Automatic humidity exposure check • Sample interference notes1 • Automatic identification of strip type • Lot and expiration entry with each test • Test results storage (up to 950 patient tests) • Operator ID Storage (up to 700 operators) • QC testing (up to 200 results) • QC test reminders or mandatory testing • Optional barcode scanning (patient/operator/lot/exp) • Optional wireless connectivity • Connectivity to data management software or LIS/HIS • HL7 and POCT1-A2 protocols OR equivalent 	
<p>06</p> <p>Hormone Analyzer</p>	<p>Specification</p> <p>Dimensions: 305 x 160 x 115 mm</p> <p>Weight: 2.2kg</p> <p>Power supply: 220 V, 5A</p> <p>Data presentation: LCD/ Printer Android.</p> <p>Working Temp.: 15 ~ 35°C.</p> <p>Working Humidity: Max 70%.</p> <p>Expiration Date: 24 months at 2-8 °C (Buffer). 24 months at 2-30 °C (Carriage) OR equivalent</p>	
<p>07</p> <p>Centrifuge</p>	<p>Features:</p> <ul style="list-style-type: none"> • Speed range of 300-4000 rpm. • 3 programs storage capacity for routine application. • Automatic internal diagnosis. • Maintenance free brushless DC motor. <p>Specification:</p>	<p>Chief Medical Officer Off & Gas Development Co., Ltd Islamabad</p> <p><i>(Signature)</i></p>

	<p>Speed Range: 300-4000rpm, increment:100rpm OR equivalent Max.Rcf: 1900Xg Speed Accuracy: ± 100rpm. Rotor Capacity: 8 x 15ml centrifuge tubes, 12 x 10ml/7ml/5ml vacutainer Max RCF: 2490 x g Run Time: 30secs to 99mins Timer or Continuous Operation Dimensions: (W) 11.0 x (L) 10 X (H) 5.5 inches Power: Single Phase, 100v-240V, 50/60Hz Weight: 9.2Kg OR equivalent</p>
08	<p>Standby Power 5 KWH</p> <p>General information</p> <ul style="list-style-type: none"> The UPS will be SET on LCD as many as 4 external battery packs connected to the UPS. Note: For each XLBP added, increased recharge time will be required. The model and serial numbers are located on a small, rear panel label. For some models, an additional label is located on the top cover. Always recycle used batteries. Recycle the package materials or save them for reuse. <p>Specification</p> <p>Temperature Operating: 0° to 40° C (32° to 104° F) Storage -15° to 45° C (5° to 113° F) Maximum Elevation Operating 0 - 2,000 m (0 - 6562 ft) Storage 0 - 15,000 m (0 - 50,000 ft) Humidity 0% to 95% relative humidity, non-condensing</p> <p>Protection Class IP 20</p> <p>Physical:</p> <p>The UPS is heavy. Follow all lifting guidelines. SRTG5KXLI/SRTG6KXLI Unit weight without packaging 51.8kg Unit weight with packaging 59.0kg Unit dimensions without packaging Height x Width x Depth 175mmx440mmx620mm (6.9in. x 17.3in. x 24.4in.) Unit dimensions with packaging Height x Width x Depth 300mmx613mmx813mm (11.8in. x 24.1in. x 32in.)</p> <p>Battery OR equivalent Replacement battery module This UPS has replaceable battery modules OR equivalent Refer to the appropriate replacement battery user manual for</p>


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installation instructions.
Contact your dealer or go the APC web site, www.apc.com. for information on replacement batteries. APCRBC170
Battery voltage Ah rating ± 96 VDC 5Ah
Battery type Maintenance free, leak proof, sealed, lead acid
Number of battery modules SRTG XLI Model: 4 battery modules
XLBP cable length 0.64m

Electrical

Models Rating

SRTG5KXLI 5kVA/5kW

SRTG6KXLI 6kVA/6kW

Output:


Output Frequency 50 Hz/60 Hz ± 4 Hz

Nominal Output Voltage 220Vac/230Vac/240Vac

Input:

Input Frequency 40 Hz-70 Hz

Nominal Input Voltage 220Vac/230Vac/240Vac OR equivalent


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