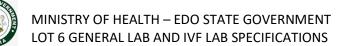


MINISTRY OF HEALTH – EDO STATE GOVERNMENT LOT 6 GENERAL LAB AND IVF LAB SPECIFICATIONS

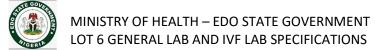
S/N	Item Description	specifications
L.110.54.12	DEIONIZER	 Process: single pass ro system or Double pass ro system output of pure water ≥10L/h Conductivity at 25°C (type III water) ≤10μs/cm or ≤5μs/cm PH 5.0-7.5 Oxidizable (as O) ≤0.4mg/I Evaporation residue ≤2.0mg/I Electrical requirements 220V/50HZ Power ≥100W ≥150W
L.161.54.114	FUME HOOD	Fume hood structure should consist of - Structure frame in min. 2.0 mm thick GI construction. Phenolic resin construction Outer panels in min. 1.2 mm thick GI construction Aerodynamic Shape front posts, in GI construction Streamlined shaped exhaust duct collar in PP construction Combination type, Frameless design Sash in toughened glass construction with full length sash handle in anodized Aluminum construction Interior construction should be Chemical and heat resistant, smooth finish, easily cleanable panels. • Fume hood Worktop • Service Valves • Electrical Services with internal wiring. • Fume hood under structure • Fume Hood Sash • Baffle Design • Fume hood under-cabinets — • Temperature Indicators with temperature sensor.
L.161.54.148	SPECTROPHOTOMETER - UV/VIS SCANNING	 Airflow monitor Scanning Spectrophotometers Uv-vis Wavelength range: 190-1100nm Spectral bandwidth: 4nm/2nm/1.8 Wavelength accuracy ±0.5nm Scan speed Hi, Med, Low, Max.3000nm/min



		Included: Cell Holder 4-position 10mm 2pcs x 10mm Quartz Cuvette 4pcs x 10mm Glass-Cuvette Software User Manual& Software Manual Professional software provides complete control of the spectrophotometer from a Computer through the Built-in USB port. Professional software functions: Quantitative, Kinetics, Wavelength Scan, Multi-wavelength & DNA/Protein Test.
L.161.54.181	warmer slide	 up to 80 °C for slide warmer Capacity 30 microslides microprocessor, programming of temperature, working day, working time, time and date 230 V; 50/60 Hz, Pmax: 300 W
L.161.54.182	MICRO-CENTRIFUGE - REFRIGERATED - TABLETOP	 Max Capacity: 4x1000ml Maximum Speed: Above 15000 RPM Maximum RCF: 25000 to 26000xg CE, UL Certified and IVD Compliant, ISO 13485 international standard. The bucket lids for Swing out rotors The centrifuge must be able to display both air/chamber temperature as well as temperature in the sample. Dual Timer mode- At Start and at Speed The centrifuge must have an option for automatic lid opening at the end of the run. The centrifuge must have capability of password protection for the programs. The centrifuge must have capability of password protection for lid opening. The centrifuge must be able to display set parameters together with actual values, The centrifuge must have a minimum of 5 "direct recall" program keys, and capability for up to 99 programs.



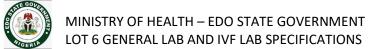
		• The centrifuge must be supplied with Fixed Angle light weight non-corrosive Rotor capable of running a minimum of 6 x 250 ml bottles at speeds of at least 18500 x g. The rotor should be warranted for 12 to 15 years. • The centrifuge must be supplied with Fixed Angle light weight non-corrosive Rotor capable of running a minimum of 8 x 50 ml conical tubes at speeds of at least 24000 x g. The rotor should be warranted for 12 to 15 years, adaptors for 15 ml should be included. • The centrifuge must be supplied with Fixed Angle light weight non-corrosive Rotor capable of running a minimum of 48 x 2 ml microtubes at speeds of at least 25000 x g. The rotor should be warranted for 12 to 15 years. • The centrifuge must be capable of running two deep well filtration plates (85 mm high) under certified sealed conditions at above 6000 x g.
L.161.54.183	INCUBATOR - CO2 - WATER JACKETED	 Volume 190 L (6.7 cu. ft) Interior Dimensions 19x19x25 in Temperature Range 8°C above ambient to 60°C Temperature Control ± 0.1°C Temperature Uniformity ± 0.25°C at 37°C Temperature Recovery 2 minutes to 37°C CO2 Range 0 to 20% CO2 Uniformity ±0.25 at 5% Interior construction stainless steel Electrical 220V, 50/60Hz
L.161.54.184	BATH - WATER	Approximately 6 liters in capacity. With digital temperature setting and display in steps of 0.1°C.



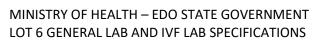
L.161.54.66	ANALYSER - ELISA - AUTOMATIC	 Temperature ranges from approx. 5°C above ambient to 100°C. Temperature constancy (temporal) approx. +/- 0.5oC. 230V, 50Hz. Fully automated analyzer medium throughput Minimum capacity 2 plate reader Continuous loading of samples, reagents and plates Should have minimum 8 filter wheel capacity with 415, 450, 490, 595, 655, and 750 nm included filters Barcode identification for samples and reagents Should be able to store data for over sixty assay protocols Supplied with PC
LAB.001.063	COLD ROOM/FREEZER - WALK-IN TYPE - 2M X 2M	Room Material Specifications: Insulation: CFC Free, Rigid Injected Polyurethane Foam. Density: 42 kg/m3. Thickness: 80mm (+0 temp Rooms), 80mm (-0 temp Rooms) Cladding: 06 mm P.V.C coating antibacterial Fire Rating: Meets redundancy requirements based on DIN 4102 class B3 and according to ASTM class B3 and ISO 3582. Construction: Panels are joined together by two systems Male-Female + Cam-Lock. Flooring: Panel Flooring: 80mm insulated panels with 1.5mm Checkered Aluminum on top Floorless: 50mm insulation foam with 100mm concrete slab on the top Doors: To supply single left/right hinged manual door with. All fittings including rubber gasket Internal Safety Handles are to be standard white or special order of any suitable color. Door



LAB.001.066	PATHOLOGY FRIDGE	hinges rise the door body as they open so as not to rub the floor and fall as they close to insure no thermal leakage and full insulation. As a safety measure the door handles illuminate from inside the room to help worker reach to handle immediately if the door suddenly closes and lights go out. Wall-Ceiling Joints are designed with hygienic monolithic arrangement with no sharp edges to avoid an accumulation of dirt and germs (look above PVC cove and angle). • Lighting: Heavy Duty, Waterproof, Low Energy, Florescent Lighting. Cooling Material Specifications: • Condensing units: mono block • Evaporator • Refrigerant: R-404 • Electrical Rating: 380v/3ph • Temperature control 1°C ~ 10°C • Wide 4" LCD display & alarm system • Inner surface of medical grade compression molded plastic • Outer body of high grade polished galvanized steel • Automatic defrost mechanism • Energy efficient due to insulation of high core density • Uniform cooling by forced air circulation • Adjustable coated wire mesh shelves • Clear product visibility with dual glass door
L.161.54.60	AGITATOR - PLATELET - WITH INCUBATOR	 provides continuous agitation to ensure no platelet aggregation
L.161.54.63	ANALYSER - BLOOD GAS - ELECTROLYTE	 Measures the Blood Gases (pH, PCO2, PO2) in addition to the Electrolytes (Na+, K+, Cl- and Ca2+)
L.161.54.64	ANALYSER - CLINICAL CHEMISTRY - AUTOMATED	Bench Top or Stand Alone, fully Automated

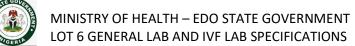


		 throughput: more than 100
		tests/hour
		 Open reagent system
L.161.54.65	ANALYSER - COAGULATION	Bench Top
		 fully automated
		 Performs PT, PTT, fibrinogen,
		TT, D-Dimer, INR
L.161.54.66	ANALYSER - ELISA - AUTOMATIC -	Fully Automated ELIZA Analyzer
		minimum 2 microplates
		capacity
		 built in washer, incubator and
		reader
L.161.54.67	ANALYSER - HAEMATOLOGY - 22	• Fully Automated
1.101.54.07	PARAMETERS - 5-PART DIFF	• minimum 22 parameters, 5-part
	TANAMETERS - 3-FART DITT	differential
		•with autosampler
		minimum sample volume for
		pediatric: to be specified
L.161.54.68	ANALYSER - IMMUNOLOGY -	Measurement principle:
L.101.54.06	AUTOMATED	Chemiluminescence
	AUTOWATED	
		• Throughput: not less than 100
		tests/hour
		performs a large test menu, the
		reagents panel should be included in
1 161 51 60	ANIALYCED CEDIMENTATION ECD	the offer
L.161.54.69	ANALYSER - SEDIMENTATION ESR	Automated ESR Automated ESR
		• suitable for pediatric samples
		high correlation with the Westergren
		method
L.161.54.70	ANALYSER - URINE - AUTOMATED	Bench Top, Automated urine strip
		reader
		• throughput: not less than 100
		tests/hour
		built in printer
L.161.54.62	ANALYSER LAB - MICROBIOLOGY &	Compact System for Bacterial
	SENSIVITY	identification and antibiotic
		susceptibility test
		Capacity: 15 cards
		Provide results in maximum 8 hours
L.161.54.61	ANALYSER LAB BLOOD CULTURE	Automated microbial detection
		system
		Continuous bottle recognition system
		Capacity: 50-60 bottles
		modular system
L.161.54.71	ANALYSERS - BLOOD TYPING	Centrifuge, diluter, incubator and
		reader to perform the Blood Grouping

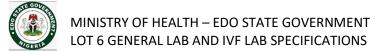




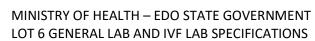
L.101.03.06	ANALYZER - BLOOD GAS WITH	Point Of Care machine
	ELECTROLYTES STAT FOR ICU	• Measures the Blood Gases (pH, PCO2,
		PO2) in addition to the Electrolytes
		(Na+, K+, Cl- and Ca2+)
		syringe and capillary sampling
		Calculated parameters: Bicarbonates,
		Base excess, tCO2, etc.
L.161.54.72	ANALYZER - HAEMATOLGY - 18	• Automated
2.101.51.72	PARAMETERS - 3-PART DIFF	minimum sample volume for
	TANGUAL TENS STANCED IT	pediatric: to be specified
L.161.54.148	Analyzer Chemistry	equivalent to Cobas C111 Roche as per
1.101.54.148	Analyzer Chemistry	the doctor recommendation
L.161.54.73	APPARATUS - DISTILLING - WATER - 20	
L.101.34.73		Produce highly treated and diciple to divide a
	L/H	disinfected water.
		Heavy duty & compatible design.
		Automatically switches off when the
		process is finished
		The distilled water is collected in a
		storage tank.
L.161.54.74	AUTOCLAVE - UNIVERSAL	Automatic microprocessor controlled
		Capacity up to 60 L
		Temperature from 50oC to 150oC
L.161.54.75	AUTOMATED TISSU PROCESSOR	Floor Standing
		Integrated fume control system to
		protect the operator and the tissue
		specimen
		Vacuum Function or Filter for more
		safety
		more than 100 cassettes
L.161.54.77	BALANCE - LAB	• From 0.1 up to 5 kg
		Electronic control and digital reading
		Readability 0.1
L.161.54.78	BALANCE - PRECISION	Electronic Balance
		Maximum capacity 2200g
		Readability 0.01 g
L.161.54.80	BATH - WATER - PRECISION - 14 L	Laboratory water bath with lid
		Temperature range: 1oC above
		ambient up to 100oC
		Safety cut-off device for overheating
		protection
L.161.54.81	BATH - WATER - TISSUE FLOATATION	Digital Display
		Removable glass dish
		Optimal Specimen Viewing
L.161.54.79	BATH WATER - SHAKING	Laboratory water bath with lid
		• Capacity 10-15 L
		• Temperature range: 1oC above
		ambient up to 100oC
L		ambient up to 1000C



_		
		Safety cut-off device for overheating
		protection
L.161.54.82	BLOOD BANK REFRIGERATOR	Used for the storage of the whole
		blood bags
		Capacity of minimum 70 bags
		equipped with shelves
		• Temp from +2oC to +10oC
		Supplied with chart recorder and
		audible alarm for temperature variation
L.161.54.83	BOX. RHESUS TYPING	warming box for Rh Blood Typing slides
L.161.54.86	CABINET - FILING - 4 DRAWERS - 0 -50 M	Cabinet, filing, 4 drawers, 0,50 m
L.161.54.84	CABINET METAL - DOUBLE DOOR - 1 -00 M	
L.161.54.90	CENTRIFUGE - BLOOD BANK	Floor Standing, refrigerated
		• swinging bucket rotor, 4 places
		Bidder should include in his offer the
		buckets suitable for single, duplicate,
		triplicate and quadruplicate blood bags
L.161.54.91	CENTRIFUGE - BLOOD CELL WASHING	Automatic Cell washing system
		• 24-place rotor
		• max rpm 3,500
L.161.54.93	CENTRIFUGE - GENERAL USE	Bench Top centrifuge
		microprocessor controlled
		programmable speed
		supplied with buckets to fit tubes:
		5ml, 7ml, 10ml
L.161.54.94	CENTRIFUGE - HAEMATOCRIT	Bench top with hematocrit rotor
		• speed adjustable: 2000 to 13000 rpm
		capacity: 24 capillary tubes
L.161.54.95	CENTRIFUGE - REFRIGERATED	Bench Top, refrigerated
		• swing-out rotor 4000 rpm,
		programmable time and speed
		digital display, door safety interlock
		• supplied with buckets to fit tubes:
		5ml, 7ml, 10ml
		minimum capacity 28 tubes
L.161.54.97	CHAIR - STACKABLE - WITH ARMRESTS	Chair, stackable, with armrests
L.161.54.96	CHAIR TYPIST - HEIGHT ADJUSTABLE	Chair typist, height adjustable
L.161.54.98	COLD PLATE	Hold more than 60 cassettes
		• Visible temperature, range -15 to +15
L.161.54.101	CYTOCENTRIFUGE	Benchtop Centrifuge
		processes minimum 8 specimen
		• RPM up to 2,500
		supplied with the cytoholders
L.161.54.102	DESK OFFICE - DOUBLE PEDESTAL - 1 -60	
	X 0 -80 M	

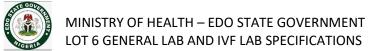


L.161.54.100	DIGITAL COUNTER FOR BLOOD CELL DIFFERENTIAL	 Digital differential counter with LCD window Audible click sounds for each button pushed 8 buttons- 8 named Pictures of blood cells next to each button
L.161.54.103	DILUTER / DISPENSER - MANUAL (SET OF 2)	manual dispenser for dilution
L.161.54.104	DISPOSABLE COMPLET SET A	Slides with covers/ Pipette Tips/ Blood Tubes/ disinfectant solution
L.161.54.163	DISPOSABLE COMPLET SET B	Slides with covers/ Pipette Tips/ Blood Tubes/ disinfectant solution/ sterile cups for urine and stool
L.161.54.164	DISPOSABLE COMPLET SET C	Slides with covers/ Pipette Tips/ Blood Tubes/ disinfectant solution/ sterile loops/ plates for culture media/ sterile swabs/ sterile cups for urine and stool
L.161.54.105	DISTILLING APPARATUS - 8 L/H	 Produce highly treated and disinfected water. Heavy duty & compatible design. Automatically switches off when the process is finished The distilled water is collected in a storage tank.
L.161.54.106	DRYING CABINET - LABORATORY GLASSWARE	 Drying and storing the glassware Volume: more than 150 L
L.161.54.107	ELECTROPHORESIS UNIT - WITH DENSITOMETER	Electrophoresis and densitometer low throughput
L.161.54.108	EMBEDDING ACCESSORIES - TISSUE - SET	 Embedding Cassettes with attached Lid totally resistant to solvents Foam biopsy pads Reagents resistant marking pen Blades
L.161.54.109	EMBEDDING CENTER - TISSUE	 Paraffine reservoir 3-5 L Adjustable temperature range: 50-700 C Clear Lid for monitoring and refilling the paraffin level Capacity: more than 10 cassettes
L.161.54.110	EMERGENCY SHOWER AND EYE WASH	 Full Body Shower with pull bar Eye wash sink should be activated in 1 second and remains operational without the operator's hand on the valve.
L.161.54.139	ESR MANUAL -WESTERGREN	ESR Westergren Tubes with the holder

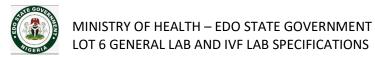




L.161.54.111 L.161.54.113	FREEZER - BLOOD PLASMA FREEZER 100 L	 Automatic Blood Component Extractor Safe system to protect operator multiple detection system automatic calibration of scales and detectors Used for the storage of the fresh frozen plasma Capacity of minimum 50 bags equipped with drawers Temp from -15oC to -40oC Supplied with chart recorder and audible alarm for temperature variation Solid door Adjustable temperature 14 to 20
		 multiple detection system automatic calibration of scales and detectors Used for the storage of the fresh frozen plasma Capacity of minimum 50 bags equipped with drawers Temp from -15oC to -40oC Supplied with chart recorder and audible alarm for temperature variation Solid door
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		frozen plasma
L.161.54.112	FREEZER 100 L	 Capacity of minimum 50 bags equipped with drawers Temp from -15oC to -40oC Supplied with chart recorder and audible alarm for temperature variation Solid door
L.161.54.112	FREEZER 100 L	 equipped with drawers Temp from -15oC to -40oC Supplied with chart recorder and audible alarm for temperature variation Solid door
L.161.54.112	FREEZER 100 L	 Temp from -15oC to -40oC Supplied with chart recorder and audible alarm for temperature variation Solid door
L.161.54.112	FREEZER 100 L	 Supplied with chart recorder and audible alarm for temperature variation Solid door
L.161.54.112	FREEZER 100 L	audible alarm for temperature variationSolid door
L.161.54.112	FREEZER 100 L	Solid door
L.161.54.112	FREEZER 100 L	
		Adjustable temperature -14 to -20
		• 100 L, supplied with shelves
		Digital temperature display
		Supplied with chart recorder and
1 464 54 434	LIA EN ACCUCRINI NA ETER A MICRO	audible alarm for temperature variation
L.161.54.121	HAEMOGLOBIN METER - MICRO-	Heavy duty and compatible design
	CUVETTE	Light source: LED, adjusted to
		specified wavelength
		minimum sample volume should be
		stated
L.161.54.115	HOOK CLOTHES - METAL - 3 HOOKS	Measuring range: 0 – 30 g / dl Hook, clothes, metal, 3 hooks
L.161.54.153	HOT PLATE- SMALL	
L.101.54.155	HOT PLATE- SIVIALL	Tabletop Hot plate for drying the paraffine tissue sections
		Adaptable to different slides sizes
L.161.54.116	INCINERATOR SMALL	Adaptable to different slides sizes
1.101.54.110	INCINERATOR SWALL	Benchtop (similar use to bec bensen)
		Electrical
		For inoculating loop and multiple
		applications (slide fixation, tubes
		sterilization)
L.161.54.166	INCUBATOR - 80 L	With display and alarm facilities
L.101.54.100	INCODATOR - OU L	Capacity up to 80 L
		Temperature 50C above ambient up
		to 600C
L.161.54.167	INCUBATOR - GENERAL PURPOSE - 100 L	With display and alarm facilities
2.101.54.107	HOUSE TON GENERAL FOR OUR TOUR	Capacity up to 100 L
		Temperature 50C above ambient up
		to 600C
L.161.54.117	JAR - ANAEROBIC	
		Stainless Steel
L.161.54.118	LABELLING MACHINE	Automated
		• for tubes, slides, cups, etc.
		• tabletop
		Automated



L.161.54.119	LIGHT - FLUORESCENT	Fluorescent light with magnifier
		Wall mounted or tabletop
L.161.54.120	MANUAL SLIDE STAINING SET	• a complete set
		• capacity: 12 slides
		provide a total slide immersion
L.110.51.53	MICROPIPETTE (A)- Manual- SET 4 Sizes	Variable volume with tip ejector
		complete set including:
		• 0.1- 2 µl / 0.5- 10 µl / 10-100 µl / 100-
		1000 μΙ
		• Rack and 1 box of tips
L.161.54.123	MICROSCOPE - BINOCULAR - LED	Binocular viewing head
		LED illumination system
		• 4 objectives plan achromatic and
		interchangeable: 5x, 10x, 40x, 100x
L.161.54.124	MICROSCOPE - FLUORESCENT	Fluorescent brightfield and phase
		contrast
1 4 6 4 5 4 4 2 2	AUCDOCCORE T: L :U C	• Binocular
L.161.54.122	MICROSCOPE - Trinocular with Camera	Trinocular viewing head
		• equipped with a camera
		• LED illumination system
		• 5 objectives plan achromatic and
L.161.54.125	MICROTOME	interchangeable
L.101.54.125	WICKOTOME	Rotary, Semi-motorizedFine Orientation with Zero positioning
		Two sections: Thickness and trimming,
		easy to alternate
L.161.54.99	NEUBAUER CELL	for manual blood cell count
L.161.54.127	ORGANIZER - SLIDES	Storage Cabinet for slides and
L.101.54.127	ONGANIZEN SLIDES	cassettes
		• 7 drawers
L.161.54.128	OVEN - UNIVERSAL	Automatic microprocessor controlled
	0.11.	Capacity up to 60 L
		Temperature from 50oC to 250oC
L.161.54.76	PCR AUTOMATIC EXTRACTOR	Automatic extraction of DNA, RNA
		Magnetic bead technology
L.161.54.89	PCR CENTRIFUGE	High speed mini centrifuge
L.161.54.85	PCR SAFETY CABINET PREPARATION	Bench top safety cabinet
		equipped with a UV lamp
L.161.54.130	PCR THERMOCYCLER	Automatic
		• 96 wells
L.161.54.131	PIPETTE (B) - MANUAL - SET 4 SIZES	Variable volume with tip ejector
		complete set including:
		• 5- 50 µl / 20- 200 µl / 100-1000 µl / 1-
		10 ml
		Rack and 1 box of tips
L.161.54.132	PLATE - BLOOD TYPING/GROUPING	white plate for manual determination of
		the Blood Grouping

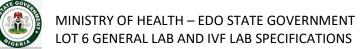


L.161.54.133	PLATELET AGGREGATION ANALYZER	Single Channel
		minimum sample volume: to be
		specified
L.161.54.129	Real Time PCR	Fluorescence detection
		Real Time PCR detection
		Capacity: 96 wells
L.161.54.135	REFRIGERATOR - LABORATORY	Glass door
		Adjustable temperature +2 to +10
		• 370 L, supplied with shelves
		Digital temperature display
		Supplied with chart recorder and
		audible alarm for temperature variation
L.161.54.134	REFRIGERATOR 500 L	Glass door
		• 500 L, supplied with shelves
		Adjustable temperature +2 to +10
		Digital temperature display
		Supplied with chart recorder and
		audible alarm for temperature variation
L.161.54.136	REFRIGERATOR/FREEZER - LABORATORY	• 300 L for Refrigerator (Temp +2oC to
		+8oC)
		• 100 L for Freezer (Temp -14oC to -
		20oC)
		Supplied with chart recorder and
		audible alarm for temperature variation
L.161.54.138	ROLLER/MIXER - TEST TUBES	Suitable for mixing blood tubes
		• speed ranging from 10 to 100 rpm
		• up to 2 Kg
L.161.54.88	SAFETY CABINET - CLASS II Type B2	Class II Type B2
		• 100% air exhausted
		HEPA filter system and UV light
L.161.54.87	SAFETY CABINET - COMPLETE WITH ALL	Safety Cabinet Class II
	SERVICES - 1.20 M - WITH FAN	Monitoring of exhaust
		ensure safety to the operator and the
		product
		HEPA Filter
L.161.54.114	Safety Cabinet- Class II Type A2	Provide protection for personal and
		product
1 101 51 110		equipped with a HEPA filter
L.161.54.140	SET - BLOOD BAG	Mixer with scaling: automatic taring,
	MIXING/EXTRACTING/SEALING/SCALING	continuous of bag agitation
		hand stripping
1 464 5 4 4 4	CET CLASSIMADE :::202:1702W	• hand sealing
L.161.54.141	SET - GLASSWARE - LABORATORY	Containing: Measuring Cylinder (50,
		100, 250 & 1000ml)/ Beaker Graduated
		(50, 100, 250ml)/ Erlenmeyer flask
		graduated (50, 100, 250 & 500ml)/

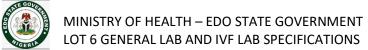


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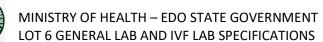
		Volumetric Flask (100, 250 & 500ml)/
1 161 54 142	CET DACKS TEST TUDES	Funnel 80-100 mm/ watch glass
L.161.54.142	SET - RACKS - TEST TUBES	rack to hold the tubes
L.161.54.143	SHAKER - WITH ACCESSORIES	Orbital Shaker
		• Speed from 50 to 250 rpm
		maximum load 5 kg
		• to include holders for tubes and
		holders for flask
L.161.54.144	SHARPS CONTAINER 4 L	small, on the counter 3 to 4 L
L.161.54.145	SHELF - ST. ST. MESH WIRE - 5 LEVELS -	
	ADD-ON - 1.00 M	
L.161.54.146	SHELF - ST. ST. MESH WIRE - 5 LEVELS -	
	STARTER - 1.00 M	
L.161.54.147	SMALL CENTRIFUGE FOR URINE	Small benchtop centrifuge for urine
		• fixed angle rotor, 8 places for 15 ml
		tubes
		• 6000 rpm
L.161.54.149	STAINING REAGENTS FOR	Set of Reagents for hematology slide
	HAEMATOLOGY SLDES	staining
L.161.54.150	STAINING REAGENTS SET- TISSUE SLIDES	Staining Set including all the needed
		reagents for staining
		one box of tissues slides
L.161.54.151	STIRRER - HOTPLATE - ELECTRIC	Magnetic stirrer with Hot Plate
		Heat and speed control
		Stirring Volume: up to 5 L
L.161.54.152	STOOL	Height adjustable with gas spring
		mobile, with back support
L.161.54.154	THAWER - PLASMA	Bench Top Plasma Thawer
		• capacity: 4 bags
		programmable temperature range
L.161.54.155	TIMER - INTERVAL	• Tabletop, for laboratory use
		resistance and moisture proof
L.161.54.156	TROLLEY - BLOOD COLLECTION	
L.161.54.157	TROLLEY - LABORATORY	for the transportation of laboratory
		glassware
LAB.064	TROLLEY, BLOOD COLLECTION	Trolley for Blood collection - with 3
		drawers minimum
L.161.54.158	VIEWER AGGLUTINATION	provides a magnified view of the
		undersurface of test tube contents
L.112.57.64	VORTEX MIXER	Touch and continuous operation
		mode
		Rotation speed 0-3000 rpm
		• for test tubes
L.161.54.160	WASHER/DISINFECTOR - GLASSWARE -	Basic Glassware washer
	LABORATORY - MEDIUM	Antibacterial Thermal disinfection:



		minimum temperature 85oC
		Basket Volume: more than 150 L
L.161.54.161	WASTE CAN - 20-31 GALLONS	Waste can, 20-31 gallons
L.161.54.162	WASTE CAN - BIO-HAZARDOUS	Waste can, Bio-hazardous
		15 Gallons
L.161.54.165	WELDER - STERILE TUBING	Sterile Tubing Connections using
		Welding Wafer
		 suitable for all type of connections:
		dry-dry-, wet-dry or wet-wet
		Compact and easy-to-use
L.161.54.173	CENTRIFUGE - TABLETOP	* Bench Top centrifuge
		Microprocessor controlled
		 Programmable speed
		 Supplied with buckets to fit tubes:
		5ml, 7ml, 10ml"
L.161.54.176	MICROSCOPE - LABORATORY	Binocular viewing head
		LED illumination system
		 4 objectives plan achromatic and
		interchangeable: 5x, 10x, 40x, 100x"
L.161.54.171	PH METER- Benchtop	
		•PH resolution should be up to 3
		decimals
		Manual and Automatic Buffer
		Selection
		•Storage up to 30 results
		RS232 connection
L.161.54.172	DIGITAL THERMOMETHER	Digital Display of Temperature
		•Temperature range should be up to 50
		Degree Celsius
		•Accuracy is ±1°C.
L.161.54.173	DRY BATH - INCUBATORS	Bench Top
		 Should have stable temperatures and
		even heating
		 Should be able to mix and match
		standard sizes of heat blocks.
		•Supplied with 12-place for 6-15ml
		tubes and 4-place for 50ml tubes
L.161.54.175	ANALYZER - SPERM COUNTING -	•Fully Automated Test Results
	ELECTRONIC	Should cover tests for Sperm
		concentration, % mobility, %
		Progressive mobility, %non-progressive
		mobility, etc.
		•LCD Display

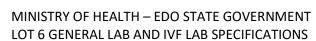


		Minimum 1 Mn automated testing cycle
L.161.54.176	MICROSCOPE - LABORATORY	 Binocular viewing head LED illumination system 4 objectives plan achromatic and interchangeable: 5x, 10x, 40x, 100x
L.161.54.177	MICROSCOPE - STEREODISSECTING WITH HEATING EQUIPMENT	Semen Evaluation Microscope with heating stage laboratory binocular microscope 10X/20 WF eyepieces with rubber eye guards Built-in heated stage: Variable digital temp. control and displays actual temperature accurately. Reaches temperature within 5-10 minute X-Y mechanical stage for precise slide movements Infinity plan flat-field objectives Phase 10x, Phase 20x, Phase 40x, Phase 100x Turret condenser with Phase and Brightfield Variable LED illumination trinocular head with camera connections Includes Blue-green-yellow filters, immersion oil, dust cover
L.161.54.178	CONTAINERS - LIQUID NITROGEN	 Multilayer protection for ultimate safety Double Lock for Extra Safety Dual monitoring respectively for temperature and liquid level
L.161.54.179	WORKSTATION - IVF	 •Main Body Construction Electro Galvanized steel •Work Zone should be in SS •Side Walls in Tempered Glass •Filter efficiency should be >99.999% for particle size between 0.1 to 0.3 microns •Approx dimensions 1035 x 640 x 2160 mm
L.161.54.180	TABLE - ANTI-VIBRATION	Should have a mechanism for passive dampening that isolated the





		microscope from vibration during IVF procedures Constructed in SS Tabletop with glass on both sided
L.161.54.181	WARMER - SLIDE	Benchtop with Thick Metal Platform Capacity 14 slide Should ensure Stable Temperatures and Even Heating Digital temperature displays programmable in F° or C with PID control
L.161.54.182	MICRO-CENTRIFUGE - REFRIGERATED - TABLETOP	Bench Top, refrigerated swing-out rotor 4000 rpm, programmable time and speed, digital display, door safety interlock, supplied with buckets to fit tubes: 5ml, 7ml, 10ml, minimum capacity 28 tubes
L.161.54.183	INCUBATOR - CO2 - WATER JACKETED	Should be designed to minimize contamination with display and alarm facilities Capacity up to 80 L Infrared (IR) CO2_Sensor Temperature uniformity of +/-0.2°C at 37°C Data Logging Capabilities SS Chamber Autoclavable shelving system
L.161.54.184	BATH - WATER	Laboratory water bath 10 L Temperature range: 1oC above ambient up to 100oC Safety cut-off device for overheating protection
L.161.54.185	WORKSTATION - EMBRYO MONITORING - CHAMBER	CO2 incubators for In Vitro Fertilization (IVF). Built- in in-lines and pressure regulator filter HEPA/VOC filtered 6 isolated incubation compartments Separately alarm function for each chamber Low gas consumption CO2 and N2 gas supply Precise temp., CO2 and O2 control Optional humidification



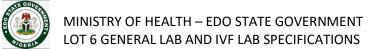
LOT 6 GENERAL	LAB AND IVF LAB SPECIFICATIONS	BENIN CITY
		7 sampling portsHeated lids to prevent evaporationIntegrated gas mixer
L.161.54.186	KARYOTYPING / FISH - AUTOMATED - COMPLETE SYSTEM	Karyotyping and FISH modular system used in human cytogenetic studies of chromosomes. Brightfield microscope. 100X magnification. Several Metaphase images can be captured Control of Threshold to improve the captured image quality Chromosomes automatically classified multiple classification views to be available: Metaphase view, Karyotype and Unclassified chromosomes Chromosome prototype can be displayed Unclassified chromosomes can be automatically corrected, or manually. Brightness and contrast can be modified and automatically obtained. FISH module included
L.161.54.187	LIQUID NITROGEN FREEZER - CONTROLLED RATE - COMPUTERIZED	Benchtop • Should not pose any contamination risk and can be used in cleanrooms and barrier facilities • Precise Control of Cooling Rate • Should ensure optimal recovery of cells upon thawing • Capability to log data for display of cooling profiles • include a UPS system
L.161.54.188	MICROSCOPE - INVERTED - FOR ICSI APPLICATION	 Microscope inverted used for Intracytoplasmic sperm injection (ICSI) MICROMANIPULATOR included Manual, encoded position revolving nosepiece for objectives Halogen light Light balancing filter Frosted Filter Dust cover

• Plan Achromat objective with 4x

• Plan Achromat objective with 10x

magnification

magnification.



		 Long working distance Universal plan Fluorite objective with 20x magnification. With variable working distance from 6.6 to 7.8 mm, numerical aperture of 0.45 and variable cover correction from 0 to 2 mm via correction collar. Long working distance Achromat objective with 40x magnification. With working distance of 1.9 mm, numerical aperture of 0.55 and cover correction of 1 mm. "
L.161.54.189	CELL HARVESTOR	 Key Applications are for Cell proliferation assays, Cytotoxicity assays, Receptor binding assays, Nucleic acid degradation Should be able to harvest samples from 96- and 24-well microplates Should have Built-in scrubbers-make it easy to detach adherent cells from well bottoms and ensure complete harvesting.
L.161.54.190	TANK - LIQUID NITROGEN - 230L	Store and Transport of Laboratory gases Should have casters and Handle for easy movement Easy to ready Gauge and simple to use Valve