DETAILS LAB BID

S.N.	Instrument Name	Qty	Mandatory Technical Specifications & Methodology	Mandatory Accessories & Startup Kit Included	Warranty Required	Vendor Compliance & Offered Make/Model
1	5-Part Hematology Analyser	1 Set	Automated 5-part differential blood cell counter utilizing laser scatter / flow cytometry or impedance technology. Measures CBC parameters including WBC, RBC, HGB, PLT, NEUT%, LYMPH%, MONO%, EOS%, BASO% with dual-angle laser scatter. High throughput (min 40-60 samples/hr), touch-screen interface, open/closed tube sampling modes.	One set FOC startup kit containing Diluent, Lyser-1, Lyser-2, and Cleaner; Motorized Blood Mixer (1 PC); External Printer.	3 Years Comprehensive	
2	Fully Automated Biochemistry Analyser including HbA1c	1 Set	Random-access fully automated clinical chemistry analyzer with on-board cooling for reagents, grating photometer, automated cuvette washing station, and throughput of 200-400 tests/hour. Capable of performing routine clinical chemistry, liver function tests (Bilirubin Total/Direct/Indirect, SGOT, SGPT, ALP, Proteins), kidney function tests, lipids, and direct immunoturbidimetric HbA1c assays.	1 Set of startup reagents; Laboratory-grade RO-DI Water Purification Plant (Distilled Water Plant); Computer system & laser printer.	3 Years Comprehensive	

DETAILS LAB BID

S.N.	Instrument Name	Qty	Mandatory Technical Specifications & Methodology	Mandatory Accessories & Startup Kit Included	Warranty Required	Vendor Compliance & Offered Make/Model
3	Coagulation Analyser	1 Set	Semi-automated or automated coagulometer utilizing optical/turbidimetric clot detection principle for testing PT, APTT, Fibrinogen, and INR with multi-channel optical positions and electronic pipetting detection.	1 Startup reagent kit with calibration controls.	3 Years Comprehensive	
4	Electrolyte Analyzer (4 Parameters)	1 Set	Direct Ion-Selective Electrode (ISE) technology analyzer measuring Na+, K+, Cl-, and Ca++ (or Li+) simultaneously from whole blood, serum, or plasma with automatic calibration and low sample volume requirement.	1 Startup 250-test cartridge FOC.	3 Years Comprehensive	
5	Semi-Automated Biochemistry Analyser	1 Set	Compact microprocessor-controlled photometer with flowcell and tube reading modes, built-in thermal printer, touch screen / keypad interface, open reagent system with precise temperature-controlled peltier cuvette well.	2 Variable pipettes with startup accessory kit (1 Set).	3 Years Comprehensive	

DETAILS LAB BID

S.N.	Instrument Name	Qty	Mandatory Technical Specifications & Methodology	Mandatory Accessories & Startup Kit Included	Warranty Required	Vendor Compliance & Offered Make/Model
6	Urine Analyser (Multi-Strip Reader)	1 Set	Reflectance photometry urine strip reader capable of analyzing 10-14 parameter urine test strips (pH, Protein, Glucose, Ketones, Bilirubin, Blood, Leukocytes, etc.) with automated calibration, touchscreen, and built-in thermal printer.	Initial batch of urine reagent strips (100 strips/bottle).	3 Years Comprehensive	
7	ESR Analyser	1 Set	Automated or optical infrared sensor-based erythrocyte sedimentation rate analyzer providing Westergren-correlated results within 30 minutes, multi-position capacity, eliminating manual pipetting errors.	Start up kit with dedicated ESR collection tubes.	3 Years Comprehensive	
8	FIA Immunoassay Analyser	1 Set	Quantitative Fluorescence Immunoassay (FIA) desktop analyzer utilizing time-resolved fluorescence technology for rapid and accurate cardiac markers (Troponin-I, NT-proBNP), inflammatory markers (CRP, D-Dimer, Procalcitonin), RA Factor, thyroid hormones (TSH, T3, T4), HbA1c, and fertility tests.	Built-in timer and thermal printer; startup assay cartridges.	3 Years Comprehensive	

DETAILS LAB BID

S.N.	Instrument Name	Qty	Mandatory Technical Specifications & Methodology	Mandatory Accessories & Startup Kit Included	Warranty Required	Vendor Compliance & Offered Make/Model
9	Blood Gas Analyzer (ABG)	1 Set	Compact critical care analyzer measuring pH, pCO2, pO2, electrolytes, and metabolites from heparinized whole blood syringe samples with automated calibration packs and rapid turnaround time (under 60 seconds).	Standard accessories, calibration pack, and electrode startup set.	3 Years Comprehensive	
10	Centrifuge with Rotor	1 Set	Benchtop clinical centrifuge with digital rpm/RCF display, timer, imbalance detection safety switch, brushless induction motor, and swing-out / angle rotor suitable for blood sample tube separation (up to 4000 rpm).	Standard tube adapters and rotor.	3 Years Comprehensive	
11	Binocular Lab Microscope	1 Set	Achromatic binocular microscope with Siedentopf head, coaxial coarse and fine focusing, mechanical stage, LED illumination with brightness control, and 4x, 10x, 40x, and 100x (oil immersion) infinity-corrected objectives.	Dust cover, immersion oil bottle, spare fuse.	3 Years Comprehensive	

DETAILS LAB BID

S.N.	Instrument Name	Qty	Mandatory Technical Specifications & Methodology	Mandatory Accessories & Startup Kit Included	Warranty Required	Vendor Compliance & Offered Make/Model
12	Phlebotomy Chairs & Collection Trays	1 Set	Ergonomic blood collection chair with adjustable armrests and robust steel frame, paired with multi-compartment portable phlebotomy collection trays for tubes, needles, and antiseptics.	Complete assembly and padding.	3 Years Comprehensive	
13	Complementary Accessories & Glassware	1 Lot	Complete laboratory support kit including adjustable micro-pipettes (single and multi-channel), pipette aids, autoclavable test tube racks, reagent storage boxes, borosilicate laboratory glassware, volumetric flasks, and measuring cylinders.	Full accessory lot as specified.	Standard Warranty	

DETAILS LAB BID

sr no	REAGENT	KITSIZE/ PACK	PRICE (INCU	CPT (INR)
1	Complete Blood Count (CBC + 5-Part Diff)			
2	Hemoglobin (Hb) / TLC / DLC / Platelets			
3	Total Bilirubin/DIRECT/INDIRECT			
6	SGOT (AST) / SGPT (ALT)			
7	Alkaline Phosphatase (ALP)			
8	Total Protein & Albumin			
9	Random / Fasting Blood Sugar (FBS / RBS)			
10	Serum Urea & Blood Urea Nitrogen (BUN)			
11	Serum Creatinine			
12	Serum Uric Acid			
13	Lipid Profile (Total Cholesterol, Triglycerides,			
14	HbA1c (Glycated Hemoglobin)			
15	Prothrombin Time (PT / INR)			
16	APTT (Activated Partial Thromboplastin			
17	Electrolytes (Na+, K+, Cl-)			
18	C-Reactive Protein (CRP - Quantitative)			
19	Rheumatoid Factor (RA Factor -			
20	D-Dimer Quantitative Assay			
21	Thyroid Profile (TSH, T3, T4)			
22	Cardiac Marker (Troponin-I)			
23	Urine Routine & Microscopy (Strip Reader)			
24	ESR (Erythrocyte Sedimentation Rate)			
25	Blood Gas Analysis (ABG Panel - pH, pCO2, pO2, HCO3)			

DETAILS LAB BID

Clause Ref.	Category / Service Parameter	Hospital Tender Terms & Mandatory Conditions
C-01	Warranty Period	All laboratory equipment shall carry a strict 3 (three) years comprehensive onsite warranty from the date of successful installation, testing, calibration, and clinical handover. Warranty must include all parts, labor, electronic boards, lasers, sensors, and breakdown visits.
C-02	Preventive Maintenance (PM)	During the 3-year warranty period, the vendor must conduct mandatory Preventive Maintenance visits at least once every 4 months (3 visits per year) totaling 9 scheduled PM visits, including calibration verification and issuance of calibration certificates.
C-03	Breakdown Response Time	Maximum permissible breakdown response time: (a) Telephonic / Remote support within 2 hours of complaint logging; (b) Engineer visit onsite within 24 to 48 hours for critical analyzers (Hematology, Biochemistry, ABG). Maximum equipment downtime shall not exceed 3 working days per occurrence.
C-04	Uptime Guarantee	The vendor must guarantee a minimum uptime of 95% per annum for all automated analyzers. If downtime exceeds 5% in a year, the warranty period shall be proportionately extended by twice the down-time duration, alongside financial penalties for delayed repairs.
C-05	Post-Warranty AMC / CMC	Bidders must quote their fixed annual rates for Post-Warranty Comprehensive Maintenance Contract (CMC - covering all spare parts and labor) and Non-Comprehensive AMC (labor and PM visits only) for Years 4 and 5 in their commercial bid.

DETAILS LAB BID

Clause Ref.	Category / Service Parameter	Hospital Tender Terms & Mandatory Conditions
C-06	Installation & Site Preparation	Turnkey site readiness guidance (electrical load, earthing requirements < 2 ohms, temperature/humidity control, RO-DI water supply, and drainage) shall be provided by the vendor within 7 days of issuing the Purchase Order. Final installation and calibration shall be completed within 15 days of equipment delivery at Bhuj.
C-07	Staff Training & Handover	The vendor shall provide comprehensive onsite operational, maintenance, and troubleshooting training for hospital laboratory technicians and pathologists during installation, followed by refresher training sessions at 6 months and 12 months. Training completion certificates must be issued.
C-08	Reagent & Consumable Price Freeze	Prices of all mandatory reagents, calibrators, controls, and disposable consumables quoted in Annexure B must remain firm and fixed for a minimum period of 3 (three) years from the date of agreement signing, with a capped escalation not exceeding 5% per annum thereafter.
C-09	Acceptance & Quality Calibration	Final acceptance and sign-off shall be granted by Shifa Hospital only after successful run of third-party quality control (QC) controls, calibration verification, method correlation studies, and 7 days of error-free continuous clinical operation.