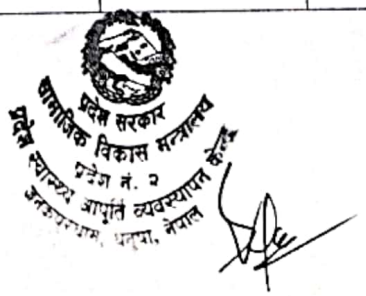
Biochemistry Analyzer

S.N.	Purchaser's Specifications	Bidder's Compliance sheet		
	Semi-Automated Bio-Chemistry Analyzer	**Yes/No**	**Reference Page No**	**Remarks**
	Manufacturer :			
	Brand :			
	Type / Model :			
	Country of Origin :			
1	**Description of Function**			
1.1	The Semi-automated Biochemistry Analyzer measures biochemical indexes by analyzing blood, other body fluids and coagulation parameter, then combines with other clinical information, to help diagnose disease, evaluate organs function, identify disease gene and determine the norm for future therapy.			
2	**Operational Requirements**			
2.1	Semi-automated Chemistry Analyzer with built in software for the calculation and curve plotting. It must accept all types of curve fits like Log-log, Log-linear, Exponential, point-to-point.			
2.2	Shall have user programmable system for minimum 50 chemistries. It should be designed for veterinary use.			
3	**System Configuration**			
3.1	Semi-automated chemistry analyzer within built data processor & LCD touch display, printer, built in incubation position and RS 232 serial port for bidirectional communication or USB etc.			
4	**Technical Specifications**			
4.1	Display: 7 inch or more Color LCD, Touch screen			
4.2	**Light Source :** Quartz Halogen Lamp or better with life 1500 Hours or more.			
4.3	**Wavelength Range:** Automatic selection by at least 7 position filter wheel ranging 340 – 630 nm.			
4.4	**Analysis method:** Photometry, End point, fixed time, kinetic, serum blank, Bio-chromatic etc.			
4.5	Photometric Range: 0 to 3.5 Absorbance. - Carry over less than 1% - Photometric accuracy: ± 1%			

4.6	Calculation Modes: • Absorbance/concentration • End point with factor or standard • Enzyme kinetics with factor or standard. • Fixed time with factor or standard. • Differential mode with factor or standard. • Bi-chromatic			
4.7	**Reading cuvette**: Flow cell and Cuvette test mode compatible			
4.8	**Temperature control:** - Temperature: 25 °C, 30 °C and 37 °C - Precision: ± 0.1			
4.9	**Sample incubation:** should have built in incubator for at list 10 sample position with timer.			
4.10	**Quality Control** – Quality control for normal and Abnormal value, automatic statistics and analysis of control data.			
4.11	**Storage:** On board memory for about more than 5000 tests records			
4.12	**Printer:** Built in thermal printer.			
4.13	**Aspiration system**: Programmable sipping volume from 0-3000 µL as per reagent protocol.			
4.14	Should have lamp saving mode for long life of lamp.			
4.15	Should display real time graph onscreen for all tests.			
4.16	Should have the capacity to auto adjust gains for lamp by user without alignment of lamp.			
4.17	Lamp replacement should be plug n play (auto fit). No need of any engineer or adjustment by the user.			
4.18	Should have the option in software menu to check various components like lamp, pump, printer and ADC for each filter. This should be in addition to the self test at the time of turning the instrument ON.			
4.19	Should have additional aspiration key on the keypad so that in case the aspiration switch is not working the entire work is not hindered.			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** • Waste tube: 1 set • Aspiration tube: 1pc • Clotting cuvetts: 1Set • Printer paper: 2 roll • Dust cover • Spare lamp (Bulb) - 1Set			

5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
6	**Operating Environment**			
6.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO 9001, ISO13485 for Medical Devices.			
7.2	Must provide European CE (IVD Directive) OR USFDA approved product certificate.			
7.3	Shall meet IEC 61010-2-081safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes. or equivalent international Certificate.			
8	**User Training**			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	**Warranty**			
9.1	Comprehensive warranty for 1 years from acceptance.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			



12.3	Certificate of calibration and inspection from factory.			

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.