



Republic of the Philippines
PROVINCE OF BOHOL
City of Tagbilaran



Standard Form Number: SF - GOOD-58
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Project Reference NO. - PHO - 2021 -060
P.R. No. - PHO - 2021 -277

PURCHASE ORDER

PROVINCIAL HEALTH OFFICE, NEW CAPITOL BUILDING, TAGBILARAN CITY
Agency/Procuring Entity

A004-11

Supplier	LABSOLUTION TECHNOLOGIES, INC.	D.O. No. :	P.O. # - PHO - 2021-337
Address	ALP Tower 3rd Floor, Tres De Abril Street, Labangon City, Cebu	Date :	December 13, 2021
Telephone No.		Mode of	Public Bidding
TIN	264-487-494-000	Procurement :	

Gentlemen/Mesdames:
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delive PROVINCIAL HEALTH OFFICE, NEW CAPITOL BUILDING, TAGBILARAN CITY Delivery Term: Please read at the back hereof

Date of Delive Twenty to Thirty (20-30) days after receipt of NTP Payment Term: Upon Completion of Delivery

Warranty Peri ONE(1) YEAR

Item No	QTY	UNIT	DESCRIPTION OF SUPPLIES	UNIT COST	AMOUNT
6	3	unit	Fully Automated Chemistry Analyzer, Brand: Biotechnica Instruments SpA	2,300,000.00	6,900,000.00
			TROUGHPUT : Up to 250 test		
			ISE MODULE ON BOARD : Not available		
			NUMBER OF REAGENT : 48 Total		
			: 24 using 50 ml vessels		
			: 24 using 10 or 20 ml vessels		
			REFRIGERATED REAGENT BA : Yes		
			REACTION VOLUME : From 180 to 400uL		
			READING CUVETTES : 32 non disposable optical glass		
			SAMPLE VOLUME : from 18 to 100uL		
			SAMPLING ARMS : 1 for serum n reagent		
			SAMPLE TRAY OF POSITION : 78 total		
			TEST MODES : 62 sample - 16 standard and controls		
			TEST DIRECTORY : Random Acces Banth STAT		
			CUVETTE TEMP CONTROL : Up to 500		
			VACUM PUMP : Pultier System OFF/30/32/37 °C (0.2 °C)		
			PHOTOMETER : Internal		
			PHOTOMETER ACCURACY : Solid State 10 chanel - reference chanel		
			PHOTOMETER SENSITIVITY : ±1 % (0.20.D) ±2.5 (2.3 O.D)		
			DILUER : ±0.001 Abs		
			DILUTER PRECISION : ±0.1%		
			DILUTER RESOLUTION : ±0.1		
			BAR CODE : Optional bach for Reagents & Samples		
			: External PC - optional - Scc PC minimum requirements below		
			COMPUTER		
			PERIPHERALS : Optional on reqst printer & UPS		
			PROCESS ELECTRONICS : 7 microcontroller CBUS Protocol		
			: USB - RS232 Bioractional + USB HUB + LAN + VGA		
			BUILT ON QC PROGRAM		
			MAINTENANCE : Yes 3 Level know level unknow		
			POWER SUPPLY : Automatic Program		
			: Universal input 100/240 volt 50-60 Hz 300 Watt PFC		
			U.P.S		
			DIMENTION : 1200 watt optional		
			: height - 56 cm (20°) Width - 78cm (30.7°) Depth - 58 cm (22.8°)		
			WEIGHT		
			CLOT SENSOR : 53 Kg		
			: Not available		
EXTERNAL PC MINIMUM REQUIREMENTS FOR BT1500					

			OPERATION SYSTEM	: Windows 2000 Profesional		
				: Windows Xp		
				: Windows Vista		
			COMPUTER	: IBM compatible		
			PROCESSOR	: Pentium Dual core duo		
			RAM	: 1Gb (2Gb for Windows Vistal		
			VIDEO	: SVGA or compatible 32k colors		
			DISPLAY	: Color resolution: 4:3 min 800x600. 16:9 min 1280 x 720		
			MOUSE	: Serial, PS2 or USB 2-1 butons		
			HOST COMMUNICATION	: RS232 or LAN (ICP/IP)		
			USB	the analyzer		
			PARALLEL PORT	: 1 if the printer has a parallel port		
			PRINTER	or Laser		
				: Printer must be instal on the PC before instaling the operative software		
			CD ROM	: DVD reader		
			HD	: 5Gb free		
8	1	unit	Chemiluminescence Immunoassay (CLIA) System, reagent feature: flash chemiluminescence label-ABEI, with high sensitivity and long stability, nano magnetic microbeads separation, fast and efficient: main features: Brand - Snibe	2,700,000.00	2,700,000.00	
			REAGENT FEATURE	with high sensitivity and long stability		
			MAJOR PERFORMANCE	• Throughput up to 180 tests/hour • 24 hours ready to use • Time to first result 17 minutes		
			MODES OF OPERATION	• Random, Batch and STAT		
			SAMPLE LOADING	• Up to 40 sample tubes • Continuous loading, STAT available • Barcode reader recognition or analyzer auto numbered • LIS connection, auto read sample info • Refrigerated sample area with independent power supply		
			REAGENT LOADING	• 9 reagents on board • Continuous loading • RFID reading all info of reagent • Refrigerated reagent area		
			REAGENT INTEGRAL	• Ready to use, no pretreatment required • Including calibrators • RFID tag storing all info of reagent • RFID tag with built-in master curve • 2-point calibration to adjust master curve • Calibration stability: Max 4 weeks		
			OTHER FEATURES	• Clot detection • Liquid level detection • Auto and optional ratio for high sample dilution • Constant 37°C incubation		
			OPERATION SYSTEM	• Windows 7 • HP compatible (Dual-core CPU) • Color touch screen		
			INTERCONNECTION	• Bi-communication with LIS via ASTM protocol		
			OTHER INFORMATION	• Input: AC 110-230V, 50/60 Hz, Max 630W • Dimension and weight:120x72x56cm 73kg		
9	1	unit	Crossmatching Machine, Gel Type, test compatibility for human blood groups: A, B, AB, O; reagents: Matrix Forward grouping and cross match card contains six microtubes prefilled with a gel in suitable buffer containing monoclonal anti-A (clone 11H5), Anti-B (clone 6F9) and Anti-D (IgM) (VI-) (clone P3x61 + TH-28) from cicrotube 1 to 3. Microtube 4 (ENZ) contains neutral gel for enzyme phase test and microtube 5&6 contains Anti-human globulin reagent (Anti-Human IgG BRAND - BIOBASE	1,450,000.00	1,450,000.00	
			Gel Card Incubator			
			Technical Parameters:			
			Model	BK-GCI24		
			Capacity	24 Cards		
			Temperature	37°C		

			Temperature	<0.5°C		
			Temperature Uniformity	±0.5°C		
			Time Range	0-99min59s		
			Consumption	250W		
			Power Supply	AC110/220V±10%, 50/60Hz		
			External Size (W*D*H)mm	280*390*140		
			Package Size (W*D*H)mm	445*335*190		
			Net/Gross Weight (kg)	6.2/8		
			Gel Card Centrifuge			
			Technical Parameters:			
			Model	BKC-GC12		
			Max. Speed	3000rpm		
			Max. RCF	830xg		
			Rotor	12 cards		
			Speed Precision	±20rpm		
			Time Range	0-99min		
			Noise	<55dB		
			Power Supply	AC110/220V±10%,50/60Hz		
			External Size(W*D*H)mm	483*320*265		
			Package Size(W*D*H)mm	560*380*330		
			Gross Weight(kg)	24		
11	1	unit	ELISA Machine, Semi Automated, analyzer: 276x220x91mm, 1.3kg, 100-240V AC, 50-60Hz Internal & external battery; QC/Calibration: system check cartridge Internal & external controls; throughput: up to 30 test/hour; interface: 7" touch screen, built-in thermal printer,		1,400,000.00	1,400,000.00
			USB port/ethernet/SD card slot, wifi and bluetooth dongle (optional), LIS/HIS compatible; memory: 1000 patient results, 1000 QC results, 500 ID chips, 100 user IDs; 100% compatible with existing ichroma cartridges			
12	1	unit	Optical Coagulation Analyzer,		290,000.00	290,000.00
			Brand - Wondfo			
			STORAGE AND TRANSPORTATION	CONFIGURATIONS		
			Temperature : - 10 C ~ 50C	• Memory: 300 test results and 12 QC test results		
			Relative humidity: 10% ~ 90% (without condensation)	• Display: 3.5 inch color touch screen		
				• Power Supply:		
				• Adapter Input : 100-240Vac, 50/60Hz, 0.5A Max		
			OPERATION CONDITIONS	• Adapter Output: 9V, 2A		
			Temperature : - 10 C ~ 32C	• Power Input : 9V, 18W		
			Relative humidity: 10% ~ 80% (without condensation)	• Batteries Operation : Two 3.7V 18650 lithium batteries		
				• Batteries life: 300 complete charge-discharge cycles, depending on the frequency of use		
				• Printer: External serial port printer		
				• Weight: 850g (without batteries)		
			SPECIFICATIONS:			
			Test item: PT INR/APTT/ACT/TT			
			Sample Type: Citrated venous v			
			Sample volume: 20 uL			
			Time to result: <5 minutes			
			Precision: CV<5%			
13	1	unit	Arterial Blood Gas Analyzer, throughput: results in 1 minute after sample		1,150,000.00	1,150,000.00
			Brand: Medica			
			SPECIFICATIONS:			
			CLIA Classification: Moderate complexity			
			Sample Type: Whole Blood			
			Sample Size: 120uL Syringe mode/95 uL Capillary Mode			
			Measured Parameters and Limits			
			PO ₂ 5-700mmHg			
			PCO ₂ 5.0 - 150.0 mmHg			
			pH 6.500 - 8.000 pH units			
			Hct 10 - 70%			
			Na ⁺ 80 - 200 mmol/L			
			K ⁺ 1.0 - 20.0 mmol/L			

			Ca ⁺⁺ 0.25 - 5.00 mmol/L		
			Cl ⁻ 50.0 - 150.0 mmol/L		
			Calculated Parameters		
			THB (Total Hemoglobin) 3.3 - 23.3 g/dL		
			pH (T) (pH temperature corrected)		
			PCO ₂ (T) (PCO2 temperature corrected)		
			PO ₂ (T) (PO2 temperature corrected)		
			TCO ₂ (Total Carbon dioxide) 0-50 mmol/L		
			HCO ₃ ⁻ (Bicarbonate) 0 - 50 mmol/L		
			BE _b (Base Excess in blood) - 25.0 to 25.0 mmol/L		
			BE _{ecf} (Base Excess in extracellular fluid) - 25.0 to 25.0 mmol/L		
			SBC (Standard Bicarbonate) 0 - 50 mmol/L		
			% SO _{2c} (Oxygen Saturation) 40.0 - 100.0% (Calculated at normal P50)		
			CTO ₂ (Oxygen Content) 3.0 - 30.0 mL/dL		
			A-aDO ₂ (Alveolar arterial oxygen gradient) 0 - 700mmHg		
			RI (Respiratory Index) 0.0 - 70.0		
			Ca ⁺⁺ (7.4) (for 7.2 <pH<7.6) 0.22 - 5.58 mmol/L		
			Input Parameters		
			Patient Teperature (20 - 45°C) Time Drawn (00.00)		
			Hemoglobin (3.0 - 30.0 g/dL) Sample Source (arterial, mixed venous, Venous)		
			FIO ₂ (Fraction Inspired Oxygen) (10 - 100%) Sample type (radial, brachial, femoral, arterial line)		
			Patient ID (14 digits)		
			Operator ID (14 digits)		
			Sample Temperature Control: 37.0°C ± 0.2°C		
			Ambient Conditions: 15-30°C (59-86°F), 500-800 mmHg (max 15 PSI)		
			5-85% relative humidity, non-condensing		
			atmospheric air environment (21%O2		
			Analysis Time: <120 seconds		
			Data Storage: 64 Patient results with Operator ID, Patient ID, Date and Time		
			QC-up to 93 results for each level (Blood Gas/Electrolytes 1, 2, 3, Hct 1, 2)		
			Calibration: Automatic or On-Demand		
			Input/Output: Numeric keypad, Graphic display, 27 column thermal line printer, barcode reader port, RS-232 computer interface port		
			Power: 100/115~VAC, 50-60 Hz, 0.8 A or 220~VAC, 50-60 Hz, 0.4 A		
			Refer to the chassis serial number label for the voltage that has been factory set on your analyzer, and for proper fuse replacement		
			Size & Weight: 14.5"W x 12.5" H x 7.0" D (37cm W x 32cm H x 18cm D,) 17lbs (7.7 kg) with		
			Reagent Module		
16	1	unit	Blood Culture Equipmet, Fully Automated, control and incubation module in a single instrument; capacity: 120 cells (60cells/drawer); operating temperature range: 10°C - 30°C; operating humidity range: 10%-90%; power requirement: 220-240v; heat dissipated: 904 Btu/hour; detects wide range of microorganisms	2,950,000.00	2,950,000.00
18	1	unit	Blood Bank Centrifuge,	895,000.00	895,000.00
			Brand: Cence		
			TECHNICAL PARAMETERS:		
			Model: CL5R CL5		
			Order No. 256000 255000		
			Max. Speed 5000rpm		
			Max. RCF 6037xg		
			Max. Capacity 4 x 1000ml		
			Speed Accuracy ±50rpm		
			Time Setting Range -20°C to 40°C		
			Temp Setting Range 1min to 99h59min /		
			Temperature Accuracy ±2°C /		
			Compressor Assembling Unit Non-CFC (R404a) /		
			Noise <65dB(A)		
			Power Supply AC220V±22V 50Hz 15A AC220V±22V 50Hz 10A		
			Wattage 3.0Kw 2.0Kw		
			Dimension (W x D x H) 700x880x930(mm)		
			Package Dimension (W x D x H) 820x1000x1080(mm)		
			Weight 260Kg 220Kg		

20	1	unit	T3T4 TSH Machine, method; enzyme immuneassay, chemiluminescence; principle: TSH: sandwich assay, T3&T4: competitive assay; sample type: serum	480,000.00	480,000.00
			Brand: ICHROMA		
			Product Class	Test Item	Diseases
			Cardiac	TN- I	Myocardial infarction
				CK-MB	Myocardial infarction
				D-Dimer	Thrombosis
				Myoglobin	Myocardial Infarction
				hsCRP	Cardiovascular Inflammation
			Cancer	PSA	Prostate Cancer
				AFP	Liver Cancer
				CEA	Cancers
				Ifob	Coloerctal Cancer
			Diabetes	HbA1c	Diabetes mellitus
				Microalbumin	Diabetes mellitus
				Cystatin C	Renal disease
			Hormone	TSH	Thyroid malnufunction
				TSH WB	Thyroid malnufunction
				T3	Thyroid malnufunction
				T4	Thyroid malnufunction
				FSH	Menopause/infertility
				Progesterone	Fertility
				hCG	Pregnancy
				BhCG	Fertility
				LH	Ovulation
				PRL	Sexual disorder & Infertility
				Testerone	Sexual disorder
				Cortisol	Metabolism
			Infection	CRP	Inflammation
				PCT	Sepsis
				ASO	Rheumatic fever
			Rheumatoid Athritis	RF IgM	Rheumatoid Athritis
			Others	Ferritin	Anemia
				Vitamin D	Bone disease
			Sample type	Reaction	Measurement
			Serum, Plasma	12 min.	0.1-50 ng/mL
			Whole blood, Serum, Plasma	12 min.	3-100 ng/mL
			Whole blood, Plasma	12 min.	50-10,000 ng/mL
			Whole blood, Serum, Plasma	12 min.	5-500 ng/mL
			Whole blood, Serum, Plasma	3 min.	0.1-10 mg/L
			Whole blood	15 min.	0.5-100 ng/mL
			Whole blood, Serum, Plasma	15 min.	5-350 ng/mL
			Serum, Plasma	12 min.	1-1500 ng/mL
			Feces (stool)	10 min.	25-1,000 ng/mL
			Whole blood	12 min.	4-15 %
			Urine	12 min.	2-300 mg/L
			Serum, Plasma	10 min.	0.1-7.5 mg/L
			Serum, Plasma	12 min.	0.1-100 µIU/mL
			Whole Blood	15 min.	1-100 µiu/mL
			Serum, Plasma	16 min.	0.5-5.0 ng/mL
			Serum, Plasma	10 min.	20-300 nmol/L
			Serum, Plasma	15 min.	1-100 mIU/mL
			Serum, Plasma	15 min.	1.4-40 ng/mL
			Serum, Plasma	15 min.	2-3,000 mIU/mL

		Whole Blood, Serum, Plasma	15 min.	5-50,000 mIU/mL		
		Serum, Plasma	15 min.	1-100 mIU/mL		
		Serum, Plasma	10 min.	1-100 ng/mL		
		Serum, Plasma	15 min.	1-10 ng/mL		
		Whole Blood, Serum, Plasma	10 min.	80-800 nmol/L		
		Whole Blood, Serum, Plasma	3 min.	2.5-300 mg/L		
		Whole Blood, Serum, Plasma	12 min.	0.1-100 ng/mL		
		Serum, Plasma	12 min.	25-800 IU/mL		
		Whole Blood, Serum, Plasma	5 min.	10-200 IU/mL		
		Serum, Plasma	10 min.	10-1,000 ng/mL		
		Serum, Plasma	28 min.	8-70 ng/mL		
22	1	unit	Biosafety Cabinet, Class II, 30% air exhaust & 70% inner recycle, user-friendly control software interface, simple operation, LCD screen, preset filter failure and breakdown alarm technology, negative pressure to form an air curtain and box type double isolation between work area and external environment to best protect room side environment. Type II biosafety cabinet. tempered glass.		390,000.00	390,000.00
			Brand: BIOBASE			
			TECHNICAL PARAMETER:			
			MODEL	11239BBC86		
			EXTERNAL SIZE (W*D*H)	1380*750*2290mm		
			INTERNAL SIZE (W*D*H)	1220*600*660MM		
			TESTED OPENING	Safety Height <200mm		
			MAX OPENING	400mm		
			INFLOW VELOCITY	0.53m/s		
			DOWNFLOW VELOCITY	0.33m/s		
			MAIN FILTER	Two HEPA Filters, Efficiency 99.999% at 0.3 um		
			FRONT WINDOW	Motorized. Two-layer laminated toughened glass > 5mm		
			NOISE	EN 12469<58dB, NSF/ANSI 49<61 dB		
			HV LAMP	30W*1		
			FLUORESCENT LAMP	40W*2		
			ILLUMINATION	>1000Lux		
			WATER AND GAS TAP	Water Tap*1, Gas Tap*1		
			WATERPROOF SOCKET	2*250W(Max)		
			DISPLAY	LCD Display		
			CONTROL SYSTEM	Microprocessor		
			AIRFLOW SYSTEM	70% air recirculation, 30% air exhaust		
			MATERIAL	Work Zone: 304 stainless steel		
				Main Body: Cold-rolled steel with anti-bacteria powder coating		
			BASE STAND	Height is 635mm		
			CASTER WHEEL	Universal Wheel		
			CONSUMPTION	600W		
			POWER SUPPLY	110/220V±10%, 50/60Hz		
			GROSS WEIGHT	400kg		
			STANDARD CONFIGURATION	Remote control, Foot switch, UV lamp, Flourescent lamp, Base stand		
23	1	unit	Bacteriological Incubator, used for storage of bacteria plate and bacteria culture growth at 37°C; range: ambient +5°C to 60°C; accuracy: 0.5%°C; uniformity: 1% of set value; heat up time: 30min to to 60°C; double walled cabinet of mild steel, aluminum or stainless steel inner filled with thermal insulation		98,000.00	98,000.00
26	2	unit	Fully Automated Hematology Analyzer,		1,350,000.00	2,700,000.00
			Brand: RAYTO			
			TECHNICAL SPECIFICATIONS:			
			• TECHNOLOGY	• PARAMETERS		
			3-D Topographic map	Regular Parameters:		
			Integral Titanium Incubation System	WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, PDW, MPV, PCT,		
			Laser Scatter Technology	P-LCR, NEU#, NEU%, LYM#, LYM% MON#, EOS#, EOS%, BAS#, BAS%		
			Flow Cytometry Technology	Research Parameters:		
			Cyanide Free Reagents	ALY#, ALY%, IG#, IG% 2 histograms, 2 scattergrams		
			Autoloader & Close Tube			
			Random Direction Tube Barcode Sc			
			• TEST SPEED	• SAMPLING MODE:		
			Autoloader Mode: 60 Samples/hou	Autoloader: 50 tubes, Auto mixing		

