Appendix D: Tests and Equipment

While the purpose and objective of this LIMS implementation within the Lao PDR laboratories is to ensure that the laboratories can provide timely and accurate services and information to support public health infectious disease testing, it is recognized that these same laboratories must also respond to service and information requests for other testing services. Consequently, the proposed LIMS should have the capability of capturing and reporting data for the range of clinical diagnostic tests associated with diseases of public health and the possibility to include water and environmental testing. The following list represents potential tests that could be analyzed in the Phase 1 laboratories and should be included in any LIMS. Not all laboratories will have the capability of performing all these tests and there may be other tests performed that are not on this list. This list, however, represents some of the tests performed for selected priority diseases in the Lao PDR laboratories. Describe the capability of your LIMS to handle these tests and your plan for implementation.

Test in NexLab categorize into many types such as single test(one result), multiples test (many result for a test order), Text (long string), other(digitally data such as image, pdf, etc)

Test name/method	Tests in LIMS	Tests in LIMS (check Yes if system meets)		
ТВ				
TB AFB Smear	Yes	□ No		
TB Culture	Yes	□ No		
GeneXpert MTB/RIF	Yes	□ No		

COVID-19 Ab

	- · · · · · · · · · · · · · · · · · · ·		
Test name/method	Tests in LIMS (check Yes if system meets)		
HIV			
PCR EID	Yes	□ No	
HIV Viral Load	Yes	□ No	
HIV-1/2 Ab	Yes	□ No	
HIV p24 Ag	T Yes	□ No	
		,	
Test name/method	Tests in LIMS (Tests in LIMS (check Yes if system meets)	
Dengue			
Dengue ELISA IgM	Yes	□ No	
Dengue ELISA IgG	Yes	□ No	
Dengue Rapid Test Ag	✓ Yes	□ No	
Test name/method	Tests in LIMS (check Yes if system meets)		
Malaria			
	Yes	□ No	
Malaria RDT Malaria Microscopy	Yes Yes	□ No	
Malaria RDT			
Malaria RDT			
Malaria RDT Malaria Microscopy	Nes		
Malaria RDT Malaria Microscopy Test name/method	Nes	□ No	
Malaria RDT	Nes	□ No	

Yes

□ No

Test name/method	Tests in LIMS	Tests in LIMS (check Yes if system meets)	
Others	1		
Full Blood Count	Yes	□ No	
Differential Count	Yes	□ No	
Urea	☐ Yes	□ No	
Electrolytes	⊻ Yes	□ No	
Creatinine	☐ Yes	□ No	
LFTs	Yes	□ No	

1. Equipment/instrumentation interfaces

For LIMS that are capable of interfacing with laboratory instrumentation, respondents should indicate the type and cost of interface devices that are required for the proposed LIMS. Explain the cost for each new instrument interface and the cost for an instrument you have already interfaced.

Please see Master cost sheet		

a. Describe how you will interface each instrument and accept data (i.e. uni-directional, bidirectional).

We have interface major vendor like Abbot, Roche, Beckman, Johnson & Johnson , Sysmex and many more which currently working here in Thailand for > 15 years' experience. Those vendor interfaces are mono, bi directional, text base (small devices).

b. List the instruments your system has been interfaced with.

ABBOTT ARCHITECT I2000SR IMMUNOASSAY ANALYZER

ABL800 BASIC

ABL90

ABL90FLEX

ABL90FLEX RADIOMETER

ALERE AFINION - POINT-OF-CARE TESTING

ARCHITECT C8000

ARCHITECT 12000SR

BACTEC BLOOD CULTURE

BD BACTECTM FX BLOOD CULTURE SYSTEM

BECKMAN COULTER AU680 CLINICAL CHEMISTRY ANALYZER

BIO SYSTEMS BA 400

BIOMIC AST MACHINE

BIOMIC V3 MICROBIOLOGY SYSTEM

BIORAD GALILEO NEO IMMUNOCOR

BIORAD IH500 ANALYZER

BLOOD GAS ANALYZER (ABG)

CAPPILARY ELECTROPHORESIS (CE)

CHEMISTRY ANALYZER

CLINITEK ADVANTUS- URINARY CHEMISTRY ANALYZER

COAGULATION ANALYSER

COBAS C111 ANALYZER

COBAS E411

COBAS E601

COBAS INTEGRA 400 PLUS

CYTOVISION SYSTEM

ELISA ANALYZER

ELISA READER MULTISKAN

ERYTHROCYTE SEDIMENTATION RATE (ESR) ANALYSER UV VIEWING BOX FOR G6OD

SCREENING TEST

G26

GEM PREMIER 3500 SYSTEM - BLOOD GAS

GENEXPERT RT-PCR

GREENCARE A1C ANALYZER

HEMATOLOGY ANALYSER

HPLC

IMMUNOASSAY ANALYZER

MICROSED SYSTEM

MINDRAY BC3000

MIXRATE X20

OLYMPUS AU 400 CHEMISTRY ANALYSER

QUICK READ GO

REAL TIME RT-PCR

RP500e SIEMENS

SEDY40

STAGO STA COMPACT

STAGO STA-R EVOLUTION SYSTEM

STAGO STA-R MAX

SYSMEX CS2100I

SYSMEX KX21

SYSMEX XN1000

SYSMEX XN-1000TM HEMATOLOGY ANALYZER

SYSMEX XP100

THERMO SCIENTIFIC PHADIA 100

URINE ANALYSIS ANALYZER

URISYS 1100

UV VIEWING BOX FOR G6OD SCREENING TEST

VITEK BIOMEREUX

VITEK® 2 COMPACT SYSTEM

VIVA E SIEMENS

c. Do you charge for support on each interface?
Yes, Please see the main cost sheet for more information.