Supplementary Table 1: The number of QMS-related documents available and activities conducted at CERSL

Sn	Item	Status
01	SOPs (managerial, analytical & equipment)	80 SOPs are effective & implemented
02	Biosafety Manual based on ISO 15190, 35001 and WHO Biosafety and Biosecurity Manuals	Effective & implemented
03	ISO 15189:2022 complaint Quality Manual	Effective & implemented
04	Laboratory Handbook	Effective & implemented
05	Testing Capacity and Periodic Evaluation	
	VHFs, SARS CoV2, Mpox	4 conducted
	WWBS, AFI, ILI (Surveillance)	3 conducted
06	3-Dimensional Risk Assessment	3 conducted
07	Process Mapping and optimization	1 Conducted (at establishment)
08	Equipment & Method Verification	19 conducted,
09	External Quality Assurance (EQA)	Participating in 2 schemes, i.e., SARS-CoV-2 by NTRL and Mpox by WHO
10	Inter-laboratory comparison (ILC)	3 conducted as per ISO 17043 & ISO 13528
11	Batch to batch & Lot to Lot Verification	Risk-based & Routinely Conducted
12	Internal Quality Control	Risk-based & Routinely Conducted
13	Trainings:	11 conducted to technical & other staff
	Laboratory Quality Management Systems based on ISO 15189, including CA, RM, MR, ISO 19011	
	Biosafety Biosecurity	
	Training on the different diagnostic techniques	
14	External Audits based on ISO 15189 & WHO Guidelines	6 conducted
15	Personnel File	Complete for 23 personnel
16	External Documents	117 are controlled & usable

SOPs- Standard Operating Procedures, WHO- World Health Organization, WWBS-Wastewater Based Surveillance, AFI- Acute Febrile illnesses, ILI- Influenza Like illnesses, CA - Corrective Action, RM - Risk Management, MR- Management Review, Mpox- Monkeypox, NTRL- National Tuberculosis Reference Laboratory