

TENDER FOR THE PLACEMENT OF REAL TIME PCR MACHINE (SEMI AUTOMATED) FOR PATHOLOGY

QAMC, BVH FOR THE YEAR 2020-2021

TECHNICAL/ SAMPLE EVALUATION COMMITTEE REPORT

Name of Document	M/S Pakistan Microbiological, Rawalpindi	M/S Chemical House Lahore	M/S Abdullah Traders Multan	M/S Briogene Pvt. Ltd. Karachi	M/S Med Lab Service Rwp	M/S Global Marketing Service Rwp
Tender Purchase Receipt Attached	Yes	Yes	Yes	Yes	Yes	Yes
NIC attested copy attached	Yes	Yes	Yes	Yes	Yes	Yes
NTN attested copy attached	Yes	Yes	Yes	Yes	Yes	Yes
STN attested copy attached	Yes	Yes	Yes	Yes	Yes	Yes
One Year Business History	Yes	Yes	Yes	Yes	Yes	Yes
Authority Letter / distribution certificate of manufacture / Importer	Yes	Yes	Yes	Yes	Yes	Yes
Establishment License/ License to import	No.	Yes	Yes	Yes	Yes	Yes
Make Model of kits	SYSTAAQ Diagnostics USA	Robocreen Diagnostics Germany	NLM Italy Gene All Korea	Qiagen, Germany Zeesan Biotech, China	GeneProof, Czech Republic RBC Biosciences Taiwan	Sacase Biotechnology, Italy Nanotech, Taiwan
Country of origin of kits	USA	Germany	Italy	Germany	Czech Republic	Italy
Quality Certificate of kits	Yes	Yes	Yes	Yes	Yes	Yes
Affidavit regarding non black listing of the firm	Yes	Yes	Yes	Yes	Yes	Yes
Affidavit regarding Price Reasonability Certificate of the firm	Yes	Yes	Yes	Yes	Yes	Yes
Technically Eligibility of the firm	Non Responsive	Responsive	Non Responsive	Responsive	Responsive	Responsive

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Specification <u>Technical Requirement:</u> Following Detail are Required for REAL TIME PCR MACHINE The thermal cycler (also known as a thermocycler, PCR machine or DNA amplifier) is a laboratory apparatus most commonly used to amplify segments of DNA via the polymerase chain reaction (PCR)	Yes	Yes	Yes	Yes	Yes	Yes
<u>Detailed Requirement:</u> Automated diagnostic PCR system Both Qualitative Quantitative Test assay Simultaneous amplification and detection without operator intervention Active heating/ cooling device of the thermo block peltier elements	Yes	Yes	Yes	Yes	Yes	Yes

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<p>excitation source LED</p> <p>Detector CCD matrix camera</p> <p>Number of channels of measuring fluorescence 4</p> <p>Excitation/ detection wavelengths, nm 470/520, 530/570, 590/630 and 630/670</p> <p>Multipurpose flexibility and high sensitivity</p> <p>High sensitivity, optimal signal/ noise ratio and low inter channel cross talk insured by the unique design for the optical track including a separate light source for each channel and matrix CCD camera.</p> <p>Board dynamic range of detection achieved by implying multiple exposure method.</p> <p>Which takes the optimization of signal registration conditions to a hold new level greatly simplifying or even eliminating the need for photometric setting.</p> <p>Real Time Quantification, milting curve analysis, single nucleotide</p>		Yes		Yes	
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<p>polymorphism (SNPs) Genotyping biocenosis and gene expression analysis among key application.</p> <p>Light emitting diodes (LED) as a light source that, unlike halogen lamps, does not deteriorate over the life time of about 100,000 hours and therefore does not require maintenance of constant monitoring.</p> <p>Any batch of data can be viewed and analyzed by the user using computer while another amplification program is being executed.</p> <p>This device is an open system and not limited for use with specific reagents or plastic.</p> <p>Can be easily integrated any laboratory information system (LIS) as the device can save all data in standard graphic or test formats ready to be loaded into databases.</p> <p>Power source 220V, 50HZ AC</p>	Yes		Yes		Yes	Yes
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<p><u>User Adjustable Setting:</u></p> <p>Thermal block format test tubes for 0.2ml (12x8) micro titer plates 96 well format</p> <p>Type of test tube 0.2ml PCR tubes (separate, in strips of 8x12 or PCR micro plates)</p> <p>Sample size: 15-100 ul</p> <p>Temperature range of the thermo block 4-100dg C</p> <p>Temperature setting increment 0.1dg C</p> <p>Precision of temperature maintenance 0.3dg C</p> <p>Heating ramping rate 2.5-3.5 dg C0/sec</p> <p>Cooling ramping rate 1.4-2.2 dg C</p>	Yes	Yes	Yes	Yes	Yes	Yes
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<p><u>Displayed Parameters:</u></p> <p>Digital display for the results.</p> <p>Note: These all devices should have open system that could be easily open on other reagent and consumable</p>	Yes	Yes	Yes	Yes	Yes	Yes
<p><u>DNA Extraction:</u></p> <ol style="list-style-type: none"> 1. Magnetic particles separation technology. 2. Throughput >16 samples/ run with integrated micro processor 	Yes	Yes	Yes	Yes	Yes	Yes
<p><u>DNA Amplification:</u></p> <ol style="list-style-type: none"> 1. Micro plate 96 x 0.2 ml for Real Time PCR. 2. Both Amplification and detection without operator intervention. 3. The amplification module to be run in Real Time PCR machine having standards along with quantitation data. The signals of the internal 	Yes	Yes	Yes	Yes	Yes	Yes

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<p>control as well as the samples could be detected on either of the FAM, Cy3, and Texas Red and Cy5 channels. (CCD Camera).</p> <p>4. Kits (both extraction and amplification) should be intended for in vitro Diagnostic (IVD) use and quality certified.</p> <p>5. Data can be viewed and analyzed by using computer but amplification program is being executed.</p> <p>6. Amplification and detection devices are not limited for used with specific reagent or consumable.</p> <p>Data (result analysis), easily integrated in any laboratory information system (LIS) and devices saved all the standard graphic results.</p>	Yes	Yes	Yes	Yes	Yes	Yes
<p><u>Detail of Accessories:</u></p> <ul style="list-style-type: none"> One latest version branded computer 19" LCD with the system 	Yes	Yes	Yes	Yes	Yes	Yes

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<ul style="list-style-type: none"> • One other computer for reporting purpose i7 latest version branded with 19" LCD • Printer latest 2000 series HP or compatible • Two centrifuge machine up to 14000 rpm with Digital display made for 24 wells of 1.5 ml tubes in the single circle • One dry Heat block with 48 wells for 1.5 ml tube • One vertex mixer, • Imported compatible sine wave UPS for backup of up to 3 hours (Emerson, Liebert, Chloride, MGE, APC or Equivalent) • Firm must quote the regents to make the system functional • Operating manual with a soft copy • Service manual with a soft copy 	Yes	Yes	Yes	Yes	Yes	Yes
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Name of Tests	M/S Pakistan Microbiological, Rawalpindi	M/S Chemical House Lahore	M/S Abdullah Traders Multan	M/S Briogene Pvt. Ltd. Karachi	M/S Med Lab Service Rwp	M/S Global Marketing Service Rwp
HCV RNA Quantitative PCR Kits	SYSTAAQ Diagnostics USA 96 test	Robocreen Diagnostics Germany 192 rxn Robocreen Diagnostics Germany 96 test	NLM Italy 2x48 test Gene All Korea 96 test	Qiagen, Germany Amp. 96 tests Zeesan Biotech, China Ext. 48x2 tests	GeneProof, Czech Republic 100 rxn RBC Biosciences Taiwan 192 test	Sacase Biotechnology, Italy Amp. 96 test Nanotech, Taiwan Ext. 96 test
Status of Sample	<i>Sample Rejected</i>	<i>Sample Accepted</i>	<i>Sample Rejected</i>	<i>Sample Accepted</i>	<i>Sample Accepted</i>	<i>Sample Rejected</i>
HCV RNA Qualitative PCR Kits	SYSTAAQ Diagnostics USA 96 test	Robocreen Diagnostics Germany 192 rxn Robocreen Diagnostics Germany 96 test	NLM Italy 2x48 test Gene All Korea 96 test	Not Quoted	GeneProof, Czech Republic 100 rxn RBC Biosciences Taiwan 192 test	Sacase Biotechnology, Italy Amp. 100 test Nanotech, Taiwan Ext. 96 test
Status of Sample	<i>Sample Rejected</i>	<i>Sample Accepted</i>	<i>Sample Rejected</i>	<i>Nil, due to no quotation provided</i>	<i>Sample Accepted</i>	<i>Sample Rejected</i>
HBV DNA Quantitative PCR Kits	SYSTAAQ Diagnostics USA 96 test	Robocreen Diagnostics Germany 192 rxn Robocreen Diagnostics Germany 96 test	NLM Italy 2x48 test Gene All Korea 96 test	Qiagen, Germany Amp. 96 tests Zeesan Biotech, China Ext. 48x2 tests	GeneProof, Czech Republic 100 rxn RBC Biosciences Taiwan 192 test	Sacase Biotechnology, Italy Amp. 96 test Nanotech, Taiwan Ext. 96 test
Status of Sample	<i>Sample Rejected</i>	<i>Sample Accepted</i>	<i>Sample Rejected</i>	<i>Sample Rejected</i>	<i>Sample Accepted</i>	<i>Sample Accepted</i>

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HBV DNA Qualitative PCR Kits	SYSTAAQ Diagnostics USA 96 test	Robocreen Diagnostics Germany 192 rxn Robocreen Diagnostics Germany 96 test	NLM Italy 2x48 test Gene All Korea 96 test	Not Quoted	GeneProof, Czech Republic 100 rxn RBC Biosciences Taiwan 192 test	Sacase Biotechnology, Italy Amp. 100 test Nanotech, Taiwan Ext. 96 test
Status of Sample	<i>Sample Rejected</i>	<i>Sample Accepted</i>	<i>Sample Rejected</i>	<i>Nil, due to no quotation provided</i>	<i>Sample Accepted</i>	<i>Sample Accepted</i>