

e-TENDER AMENDMENT

Reference Tender Enquiry No.:- NEIGR / S&P / OT / E –29/2019-20; dated 01/07/2019 for processing of Equipments /Instruments for the State Level Viral Diagnostic Laboratory (VDL), NEIGRIHMS, under the scheme 'Establishment of a Network of Laboratories for Managing Epidemics and Natural Calamities, under DHR /ICMR project in the department of Microbiology.

The following amendment /addendum are hereby being considered against the technical specification here under:-

Item No. 1. "Inverted Microscope"

Technical Specification	May be read as
1.Objectives:Phase Contrast objectives 4x, 10x, 20x & 40x&100X oil immersion lens or better technology;	Objectives:Phase Contrast objectives 10x, 20x &40x &100X oil immersion lens or better technology;
3. Nosepiece: Focusable Quintuple(5x) revolving nosepiece mounted on ball bearing with highly precise clickstops	Nosepiece: Focusable Quadruple (4x)revolving nosepiece mounted on ball bearing with highly precise clickstops
Long working distance condenser 0.3with a working distance of 72mmwith inserts for bright field, phase contrast and PlasDIC.	Long working distance condenser 0.3 with a working distance of 72mmwith inserts for bright field, phase contrast.
6. Optical system: Infinity system,Parfocal Distance 60mm	6. Optical system: Infinity system,
Epi-fluorescence attachment- Epifluorescence attachment, with field diaphragm, Fluorescence filter blockholder, (2 filter blocks mountable, 1 empty position), Heat absorbing filter, Lamphouse for 50 W mercury lamp, optional mercury fiber optic illumination for better illumination along with green red filter	Epi-fluorescence attachment- Epifluorescence attachment, with field diaphragm, Fluorescence filter blockholder, (2 filter blocks mountable, 1 empty position), Heat absorbing filter, Lamphouse for 50/100 W mercury lamp, optional mercury fiber optic illumination for better illumination along with green red filter
Digital Camera with not less than 7Megapixel.Resolution, 2/3" High Density CCD, Firewire Interface, facility to work in Color as well as monochrome mode which can be controlled through Control Unit Connected with the Computer fitted with image acquisition software.	Camera: CCD/CMOS camera having dual mode Mono & Colour with 2.3 MP or better Resolution with 1/1.2 inch sensor. Pixel size of 5.86µm x 5.86µm or better. Connected with the Computer fitted with image acquisition software

Item No. 2. "Fluorescence Microscope"

Technical Specification	May be read as
Objectives : Fluorescence objective 4X Fluorescence objective 40X Fluorescence objective 10X Fluorescence objective 100X (SL)	Objectives : Semi Apo/ Fluorite Grade objective 4X Semi Apo/ Fluorite Grade objective 40X Semi Apo/ Fluorite Grade objective 10X Semi Apo/ Fluorite Grade objective 100X (oil)
Universal Turret Condenser NA 1.1 for bright field, Phase Contrast and Dark Field Microscopy	Long working distance universal condenser N.A. 0.5 or Better, 5 Position or more for Optical elements, option to attach DIC/Phase attachments
OPTIONAL- Chargeable battery back-up 6V, 1.2Ah, Approx, 8 hrs, if fully charge	Battery back-up at least for 2 hours hrs,
Photographic attachment: Trinocular model (with light distribution, bino/photo: 100/0,0/100) to accommodate image documentation, a photo port that accepts various photomicrographic systems.	Photographic attachment: Left side Port (with light distribution, bino/photo: 100/0, 50:500/100) to accommodate image documentation, a photo port that accepts various photomicrographic systems
Digital Camera with not less than 7 Megapixel. High Resolution.	Camera: CCD/CMOS camera having dual mode Mono & Colour with 2.3 MP or better Resolution with 1/1.2 inch sensor. Pixel size of 5.86µm x 5.86µm or better. Connected with the Computer fitted with image acquisition software

Item No. 5 "Gel Documentation System"

Technical Specification	May be read as
Pixel density: >4000	Pixel density: >4000
Imaging area: 15 cm x 35 cm or more	Imaging area: approx. 15 cm x 35 cm or more
Excitation source- Trans-UV, 254, 365nm; Wide trans illumination area	Excitation source- Trans-UV, 312, 365nm; Wide trans illumination area
Additional Technical Specifications to be added to existing	
	1. System should have function for preloaded protocol (for repeatability of the result)
	2. System should have preferably in built display for easy and fast capturing of the image .
	3. Grey scale of more than 50,000 gray scale.
	4. System should have aperture of f/1.4 or better.
	5. System should have software for image enhancement, image analysis includes molecular weight calculation band quantification, distance calculation.

Item No. 7 "Thermal Cycler"

Technical Specification	May be read as

	Design: 96 well, with 6 separate peltier blocks to provide independent temperature zones to run gradient PCR with hot bonnet	Design: 96 well to run gradient PCR with hot bonnet
	Capability: 0.2ml, 0.5ml PCR tubes or microplates; to accommodate PCR volumes ranging from 10-100ul.	Capability : Universal block for 0.1 ml, 0.2 ml and 0.5 ml PCR tubes or microplate, to accommodate 10-100 ul
	Gradient range: 1°C to 30 °C	Gradient Range: 1°C to 20 °C
	Temperature: Range +4-100°C	
	Ramp rate: Maximum should be 5°C / sec and adjustable between 3 -5°C /sec	heating Rate: 3°C / sec Cooling rate: 2°C / sec
	Program: Around 800 typical programs; with USB flash drive expansion	Program: more than 700 typical programs; with USB flash drive expansion
	Design: 96 well, with 6 separate peltier blocks to provide independent temperature zones to run gradient PCR with hot bonnet	Design: 96 well to run gradient PCR with hot bonnet
	Capability: 0.2ml, 0.5ml PCR tubes or microplates; to accommodate PCR volumes ranging from 10-100ul.	Capability : Universal block for 0.1 ml, 0.2 ml and 0.5 ml PCR tubes or microplate, to accommodate 10-100 ul
	Additional Technical Specifications to be added to existing	
		System should have technology to use all types of consumables

Item No. 13. "Variable pipettes (0.5-10µl, 10-100µl, 20-200µl & 100-1000µl)"

	Additional Technical Specifications to be added to existing	
		1.System should have four digit display.
		2.System should have Spring loaded Tip cone for proper fitting of tip into the pipette.
		3.System should have secondary adjustment for different types of liquid (Viscous solution)
		4.System should have colour coded for different volume for easy identification of pipettes
		5. Price for Periodical Calibration as per NABL must be included throughout the warranty & CMC Period along with the certificate & traceability.

Item No. 10. "Centrifuge"

	Technical Specification	May be read as
	Should be able to accommodate or process 5/10ml blood tubes and a wide range of tubes	Should be able to accommodate or process 5/10 ml blood tubes and a wide variety of tube (tube size should be mention along with speed)
	There should be provision of accessories of angle head/rotor for 5ml and wide range of tubes	There should be provision of accessories of angle head/rotor for 5ml and wide range of tubes (tube size should be mention along with speed)
	Additional Technical Specifications to be added to existing	
		1 Rotors should be made of metallic and must be fully autoclavable at 121°C (To prevent contamination)
		2 The system should function for quickly attain the desire temperature. (for sample required temperature control)
		3 The system should function for quickly attain the desire temperature. (for sample required temperature control)
		4 Rotor should be provided: i. Fixed angle Rotor for 30 X 1.5/2.0 ml tube with speed more than 12000 rpm. ii. Swing out rotor for 4X 250 ml with speed more than 4,000 rpm with adapter for 52 X 5.5-12 ml blood collection tubes and 32 X 5 ml tubes.

Item No. 12 "Nano-Drop Spectrophotometer"

	Technical Specification	May be read as
	System must be capable of discriminating between molecules of interest using spectral protocol. Spectral protocols enable content profiling by extracting the contribution of individual sample components and differentiating between DNA, RNA, and protein fractions and sample impurities.	Spectral analysis gives understanding of contamination present in the sample and thus provides actual value of the sample.
	Nucleic acid quantification up to 15 samples at a time in as little as 90 seconds	Multiple samples at a time gives flexibility and save time.
	Specific quantification of DNA, RNA, and other contaminating fractions	Specific quantification of DNA, RNA, and other fractions (eg: in sample RNA total gDNA contamination check and gives value.)

All other terms and conditions remains the same.

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