ANNEXURE A

No. Project/MDRU - RIMS- 15

Imphal, the 9th June 2015

Item no. 1 Five part Auto Analyzer

Principals:

- Electrical impedance method with advanced SRV technologies for accurate & precise total count
- Diode based LASER Technology for 5 part differential
- Photometry LED besed technology for haemoglobin

Parameters:

24 parameters

WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, LYM#, MON#, NEU#, EOS#, BAS#, LYM%, MON%, NEU%, EOS%, BAS%, RDW-SD, RDW-CV, PDW-SD, pDW-CV, MPV, PCT

Plus

2 scatter - grams - WBC 5 part differentisl & WBC/BASO, 2 Histograms - RBC & PLT

Throughput:

60 tests / hour

Sample Volume:

110µl of whole blood in open & closed mode

Chambers

Dual chamber advanced system for higher accuracy & precxision

Reagent system

- 3 Reagent System Environment friendly reagents
 - Erbadil Diff
 - Erbalyse- 5P
 - Erbaclean 5P

Auto Clean Modes

- Unique ZAP* technologies with each analysis cycle
- · Chemical cleaning of the aperture
- Back- flush using high pressure

Data capacity:

1, 00, 000 results with all scatter- grams & histograms

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Safety:

- Sampling using advanced sample holder.
- Optional auto sampler (upto 100 samples in 10 racks)

Peripheral ports (USB interface (4) & PS/2):

- Support for Host Computer
- Support for USB or PS/2 Keyboard (Optional)
- Support for External printers (Inkjet, Laserjet)

Data Back up:

USb Storage Device

User Interface & Display

- Full colour LCD/LED touch screen with high contrast ratio.
- Status LED

Dimension (WxDxH)

410 mm x 465 mm x 515 mm

Item No. 2

FLUORESCENCE MICROSCOPE

Optical system : Infinity corrected system

Focus : Vertical stage movement 25mm per coarse stroke

Vertical stage movement 1micron per fine stroke

Stage rotation of 270 degrees

Illuminator : Built-in-Koehler illumination for transmitted light

12V100W halogen bulb (pre-centered) Light ntensity justment entrally located so both hand Can be used to increase and decrease light — Energy saving switch to off the Light when user moves away from the microscope Light preset switch for photography

Built-in filters (LBD-IF, ND6, ND25)

Revolving nosepiece: Interchangeable Reversed Sextuple Nosepiece with DIC

Slot for future up gradation to DIC technique.

Objectives : Semi Apo chromate 40X(N.A 0.75 & WD 0.51)

Observation tube : Super Wide field Trinocular head with Field no 25.5mm

or better .C Mount adapters for attaching cameras must

be provided.

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Eyepiece

Super Wide field Eyepiece with Field No 25.5mm or

Better and both should have dioptre adjustment facility.

Stage

Ceramic-coated coaxial stage with right hand low drive

Control with stage size 150mmX185mm or better. Movement range must be 50mm in Y direction and

74mm in X direction or better

Condenser

Universal 8 position condenser with slots for attaching

all optical elements for Phase, Dark Field and DIC

attachments.

Reflected Fluorescence Attachment:

• Fluorescence illumination of 130Watts mercury metal halide with 8 or more position fluorescence turret.

High quality Narrow band Filter for DAPI, FITC, TRITC, TEX RED

Camera

5 megapixel CCD cooled 10bit camera, with maximu

resolution 2560X1920, with peltier thermoelectric

cooling 10 deg below ambient.

Imaging System: Intuitive user interface that contains all of the basic features needed to control the camera and capture images. 'Required features are: real time video preview, measurement and annotations, single capture and time lapse, automatic/manual white balance and exposure time control, drag and drop measurement data to excel and thumbnail worksheet. With fluorescence merging, time lapse and other advance features.

Latest Branded

Pentium i5 Processor with 1TB Hard disk,

8 GB Ram and 24" TFT monitor with USB mouse and

Key Board and Offline 1KVA Ups.

Item No. 3 HPLC System with Accessories

Sl. No	Brief Specification	Qty
	HPLC System with accessories	1 set
	Consist of the following:	
1.	HPLC Pump	1
2.	Sample Injector (Auto Sampler)	1
3.	Detector	1
4.	Software	1
5.	Column	1
6.	Column Compartment	
7.	Water Purification System (HPLC grade)	
8.	Micro Syringe - 10μl / 25μl	

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Technical Specification of HPLC with Accessories

Technical Specific	eation of HPLC with Accessories	
HPLC Pump	HPLC Pump Combines the most important aspects of HPLC performance – accuracy, reliability, pulse – free eluent delivery and proven functionality.	
	easy-to-read display and keypad user interface enable error-f4ree	
	programming. Automatic purge, flow calibration and on board diagnostics	
	enhance confidence in results	
	➤ Precise stepper motor control (48 steps/µl resolution) of dual	
	reciprocating pistons to ensure pulse free sovent delivery	
	➤ Programmable flow rate range: 0.001 – 10, ml/min in 0.001 ml/min increments	
	Maximum operating pressure: 6000 psi	
	Automatic seal wash and auto – priming	
	> Flow precision: 0.1% RSD	
	Compressibility compensation: Programmable	
	Flow Calibration: Programmable	
	The flush front panel design and tactile keypad for error- free	
	programming of pump paratmeter including flow rate, operating	
	pressure limits, compressibility compensation, purge mode,	
	calibration and diagnostics.	
	> Operating pressure limits: Programmable high and low pressure	
	limits, user selectable in psi, bar, kPa	
	➤ Pressure Ripple <2.0%	
	 Plunger guiding system: Floating, Self alingning mount 	
	> Primary wetted surface materials: 316	
	> Stainless Steel, Sapphire, reinforced fluorocarbon polymer	
Phoodyna 77251	Rheodyne 72251 and stand Kit	
Rheodyne 77251 and Stand Kit		
and Stand Kit		
	> Premounted on standalone panel	
	 Supplied with 25 μl syringe MBB flow path designed assures continuous solvent flow during the 	
	injection cycle	
	> Zero hold-up needle port	
	Built inn inkjet signal switch	
	Accepts standards Waters fittings	
	Pressure limit set of 5000 psi, adjustable upto 7000 psi maximum	
	> 5 μl, 20 μl, 50 μl, 200 μl Loops Comes with Rheodyne Injector	
UV/ Visible	UV/ Visible Detector	
Detector	Designed to proved the highest performance in UV/ Visible Detection,	
	➤ Wave Length Range: 190 to 700 nm	
	➤ Bandwidth: 5 nm	
	➤ Wavelength Accuracy: 1 nm (via patented Erbium filter)	
	➤ Wavelength repeatability: 0.1 nm	
	➤ Linearity: <5% at 2.5 AU propylparaben, 257 nm	
	➤ Baseline noise, single wavelength:<5 x 10-6AU, dry cell 230 nm, 10	
	Hz, 1.0s	
	➤ Baseline noise dual wavelength: <12 x 10-6AU, dry cell 230, 280 nm,	
	1 Hz, 2.0S	
	Measurement range: 0.0001 to 4.0000 AU	
	Data acquisition: Up to 80 Hz	
	➤ Light Source: Deuterium arc lamp, warranty: 2000 hours or 1 year	
	warranty (whichever comes first)	
	Flow Cell design: Patented Taper Slit	
	> Path length: 10mm (analytical cell)	
L		

State

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	> Cell volume: 10μL (analytical cell)
	Pressure limit: 1000psi (analytical cell)
	Wetted materials: 316 stainless steel, fused silica, FEP, PEEK
	➤ Power requirements: 100 to 240VAC
	> Line frequency: 50 to 60 Hz
	> Power consumption: 185VA (normal)
	> Outputs: Four event inputs
	> Operating temperature: 4-40°C (30-147°F)
	> Operating humidity: <95% non-condensing
Advance	Advance Software
Software	Breeze 2 Software offers user-friendly technology allowing you to acquire,
	process and report LC analyses, converting high-quality and accurate results
	into the answers you require. It simplifies the complete management of your
	chromatographic process and data, providing reliable information so you
	can make informed and accurate decisions efficiently.
	Measurement of retention times and component identification
	> Automatic peak detection, peak area measurement and baseline
	correction facilities
	> Software has archive restore facility with the capability to rebuild all
	the projects and their relations of the project as they were up to the
	last archival.
	 Software has able to analysis GPC data
Coloumn	SunFire C18 5 μm 4.6 x 150 mm coloumn
Coloanin	SunFire C18 coloumn, 100 A, 5 μm, 4.6 x 150mm, 1/pkg

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