



Notice Inviting e-Tender

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Supply and Commissioning of Medical equipment for 02 (two) new Government Medical College & Hospital, Dept. Of Pathology

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-196 /2023

Dated-24.04.2023

AMENDMENT-I

Revised Technical Specification

Item No.-01

Fully Automated high throughput Multi-Stainer Workstation

1. High throughput system.
2. The Instrument should be compact, robotic arm for X-Y-Z directions, space saving for all types of Staining for routine application with continuous washing of slides with fresh water
3. System should be capable for running H&E, PAP and other special staining protocols simultaneously.
4. High specimen slide throughput up to 300-600 slides/hour depending up on the selected program.
5. Minimum loading capacity up to minimum 5 or more slide racks at one time with at least 20 - 30 specimen slides/rack Intuitive software to perform separate_protocols simultaneously with multiple baskets in process should be available
6. Complete with 3-8 water stations, 26-28 reagent stations of minimum 280ml - 450 ml capacity, 5 drying station and a total of 4-6 configurable doors for loading and unloading
7. Programmable for 50 programs of up to at least 50 steps with incubation time setting from 0 sec to 59 mins or more
8. Integrated oven with temperature setting from (30-65)°C for slide drying

10. Agitation programmable from 0 to 20 times or continuous
11. Programmable up and down movement of robotic arm during dip in stain
12. Fume extraction fan with charcoal filter to remove hazardous fume
13. All-new easy to navigate touch screen allows an at-a-glance visual check on progress
14. Provides all the information required for routine operation from a single screen
15. LED lighting / total visibility through transparent material to provide superior visibility within the staining area
16. USB connectivity allows rapid access to data and protocols
17. Inbuilt Battery back-up for 40-50 minutes of power should be available
18. Gentle vibration to slide rack during lifting to reduce carryover contamination or drip tray technology
19. Audible warning buzzer in case of any error during operation
20. Reagent containers can be exchanged quickly and easily
21. Power Supply : 220-240V AC , 50/60 Hz
22. Instrument should be US-FDA registered or European CE compliant / BIS
23. Manufacturer should be ISO Certified. Proper proof of certification should be provided
24. Onsite Physical demonstration of the equipment will be mandatory for technical qualification

Item No.-02

Fully Automated Embedding System (Heated embedding module & cold plate)

1. Microprocessor controlled bench top unit, fully programmable automatic on/off control with two console unit one heated paraffin dispensing and embedding unit and cryoconsole with cooling plate
2. Can be programmed to turn on automatically to bring all work areas to their proper temperatures in time for the workday.
3. Independent programmable temperature settings for paraffin reservoir, mold warmer, cassette bath, and work surface
4. Capacity of tissue storage tank should be 4- 5 liter paraffin and large area of cold plate.
5. Paraffin reservoir temperature setting range from 50°C to 70 °C
6. Ample cold plate to accommodate at least 60 or more blocks.
7. Cassette bath to store at least 300 cassettes or mould storage.
8. Mold warmer temperature programmable from 50°C to 70°C
9. Work surface temperature programmable from 50°C to 70°C

10. Cold spot temp with Peltier element
11. Cold plate temperature range from -3 to -12°C and adjustable
12. System should be operated by manual as well as foot pedal.
13. Spacious paraffin collection tray to collect excess paraffin from work surface.
14. Separately heated paraffin dispenser with temperature 50°C to 70°C
15. Bright, even illumination of the embedding area to be provided through well lit and clutter free - Cool LED lighting
16. Instrument should be programmable for work-days, work starting time, work end time, real time and day of the week for automatic switch on/off of the instrument.
17. Should have forceps warmer, along with electrically heated forceps
18. Should have paraffin trimmer preferably.
19. Mains connection voltage: 220-230v/50/60 Hz. And
20. Super Mega Cassettes can be embedded with ease.
21. Manufacturing company should be ISO Certified.
22. Equipment should be USFDA registered **Or** European CE certified **/ BIS** .
23. Onsite demonstration of the instrument should be mandatory.

Item No.-03

Grossing Station

Stainless steel, with Control panel, air filtration system, Track mounted adjustable computer arm with articulation, LED lights that are color and intensity, Dedicated USB ports for camera control and data transfer adjustable, Integrated pathology camera system, Instrument Set (High quality) Height Adjustable Stainless Steel Chairs With Split AC of appropriate capacity.

Item No.-04

Five part Fully Automated Cell Counter

Specification	Specification Name	Bid Requirement (Allowed Values)
Performance Parameters	Type of system offered	closed system
	Analysis principle	LASER / flow cytometry based scatter analysis
	Type of cell counting	5 part WBC differential
	NRBC%	Mandatory

Specification	Specification Name	Bid Requirement (Allowed Values)
	Availability of body fluid(CSF, synovial, serous)	Mandatory
	Reticulocyte Percentage	Mandatory
	Discrete analysis modes available	CBC,CBC+DIFF
	Analysis method for WBC	Flow cytometry
	Method for platelet measurement	dual angle light scatter / fluroscent / Electrical impedance
	RBC Measurement method	Electrical impedance/ flow cytometry
	Hb measurement	cyanide free colorimtery
	No of sample racks to cater to different tube sizes	With autoloader
	Maximum sample Aspiration volume needed in all modes	50µl -100µl
	Minimum sample volume required in all modes	60µl or less
	Throughput capacity in CBC/Differential	60 or more
	Type of modes of sample running	Open vial
	Hemoglobin linearity	0 to 25 gm per litre
	Availability of Auto dilution	Yes
	should have clot detection facility	Flagging facility
	Type of Calibration	Both manual and automatic
	Separate diluting nozzles for RBC and WBC	Yes
	Double bathing mechanism	Optional
	Upgradable to integrate with attachment	Yes
Data Management and Display	Type of data management	inbuilt system
	Display	LCD/LED
	PC hard disk	Optional
	Inbuilt monitor size in inches	>5
	Processor of PC Provided with system	NA (If PC not provided)
	RAM	NA (If PC not provided)
	HDD	NA (If PC not provided)

Specification	Specification Name	Bid Requirement (Allowed Values)
	PC Monitor size in inches if PC provided externally	NA (for Inbuilt based)
	HIS/LIS Interface	RS232 or others
	Type of external storage	USB
	No of USB Port provided	4
	Printer facility	Yes
	Type of printer unit	External
	Printer type	LASER printer
	"Database capability of storing sets of results and graphics"	>=20000
	L J Plot facility	Yes
	delta check for cumulative review	Optional
	On line QC option	Yes
	QC File management	Yes
	Type of user Interface or data entry	all three
Power Requirements	Rating of online UPS in KVA	1 KVA
	Back up time in minutes	15 min
ACCESSORIES ,SPARE PARTS AND CONSUMABLES	"Offered equipment unit to be supplied with sufficient consumables (with at least 2/3rd of total shelf life) required for, sufficient to carry out haematological testing of samples"	500
	Net work integration with lab information system feature	Yes
Miscellaneous Parameters	Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue)	2 Years
	Number of installations in Central / State / PSU Govt Hospitals (Hint: Seller should supply a performance certificate of the device to the buyer in case demanded after placement of order)	More than 3
	Availability of toll free facility for technical support maintained by OEM or authorised agencies	Yes
	Certification	CE / EC / UK Cert / US FDA / BIS
	Calibrator	01 set

Specification	Specification Name	Bid Requirement (Allowed Values)
	Quality control	01 set

Item No.-05

Three Part Fully Automated Cell Counter

Specification	Specification Name	Bid Requirement (Allowed Values)
Performance Parameters	Type of system offered	closed system
	MID% analysis	Yes
	MtD# analysis	Yes
	Gran% analysis	Yes
	Gran# analysis	Yes
	Analysis method for WBC	Electrical impedance/ flow cytometry
	Method for platelet measurement	Electrical impedance/ flow cytometry
	RBC Measurement method	Electrical impedance/ flow cytometry
	Hb measurement	Photometric /direct cellular measurement
	Types of modes of running sample	Open vial
	Maximum sample aspiration volume needed in any of modes	should be less than 300 µl
	Minimum sample volume required	should be 100 µl or less
	Throughput capacity of analyser in (samples/ hour)	60 or more
	Hemoglobin linearity	1 to 24 gm per dl
	Availability of Auto dilution	Optional
	Type of Calibration	automatic, manual, both (automatic and manual)
	Direct aspiration for capillary blood	Yes
	Separate diluting nozzles for RBC and WBC	Yes
	Double bathing mechanism	Yes
Data Management and Display	Type of data management	Inbuilt system
	Display	LED / LCD / TFT
	Inbuilt monitor size in inches	More than 5
	PC Monitor size in inches (When PC provided externally)	NA (if Inbuilt system)
	PC hard disk	NA
	RAM capacity of PC System	NA (if no PC provided)
	HIS/LIS Interface	HL7 or others

Specification	Specification Name	Bid Requirement (Allowed Values)
	Type of external storage	USB
	No of USB Port	2 or more
	Data management systems	Provide histograms in display and print
	Type of user Interface or data entry	all three (touch screen / Non touch screen, handheld barcode reader facility and manual)
	Minimum internal storage 5,000 data	Mandatory
	"External Database capability with 32 GB pen drive	Mandatory
	Printer facility	No
	Type of printer unit	Inbuilt / External
Power Requirements	Type of UPS	Online
	Rating of UPS in KVA	1 KVA
	Back up time in minutes	15 min
Accessories, spare parts and consumables	"Offered equipment unit to be supplied with sufficient consumables (with at least 2/3rd of total shelf life) required for, sufficient to carry out haematological testing of samples"	500
Miscellaneous Parameters	Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue)	3
	Number of installations in Central /State/PSU Govt Hospitals (Hint: Seller should supply a performance certificate of the device to the buyer in case demanded after placement of order)	More than 3
	Availability of toll free facility for technical support maintained by OEM or authorized agencies	Yes
Additional Specification Parameters - Automated Hematology Analyser (3 Part)		
Specification Parameter Name		Bid Requirement (Allowed Values)
Certification		CE / EC / UK Cert / US FDA / BIS
Calibrator		01 set
Quality control		01 set

Item No.-06

Coagulometer (Fully automated)

Specification	Specification Name	Bid Requirement (Allowed Values)
System Parameters	Configuration Model	Benchtop
	System type	Closed
	Throughput (PT tests/hr)	100 – 150
	Throughput (APTT tests/hr)	Any applicable numeric value
	Throughput (Simultaneous PT&APTT tests/hr)	Any applicable numeric value
	Method Used for clotting assay	Mechanical clot detection/Photo-Optical
	Immunologic Assay	Yes
	Chromogenic Assay	Yes
	Centrifuge required for Sample	Yes
	Sample Type	Plasma, Whole blood
	Stat facility	Yes
	Maximum onboard sample capacity at a given time	Any applicable numeric value
	Continuous loading capability of samples and reagents	Yes
	Number of positions for stat samples	Any applicable numeric value
	Total number of positions for vials of different sizes	Any applicable numeric value
	Number of measurement channels	Any applicable numeric value
	Test Menu Programmable	Yes
	Number of user defined test settings	50 or more
	D-Dimer Test menu	Yes
	TT Test Menu	Yes
	Factor Assays(Both Intrinsic and extrinsic pathways)	Yes
	Vwf antigen	Yes
	LA1,LA2	Yes
	Protein S and C	Yes
	Plasminogen	Yes
	Plasmin inhibitor	Yes
	AT-III	Yes

Specification	Specification Name	Bid Requirement (Allowed Values)
	Flagging of PT value when results exceed 120 seconds	Yes
	APTT value provided when results exceed 180 seconds	Yes
	Platelet aggregometry test	optional
	Multi wave length testing	Yes
	Wave form analysis	Optional
	Analysis Mode	All (Re-dilution, Re-testing, Repeat analysis)
	Dispensing	Pre-heating probe, Level sensing, Vertical obstruction detection
System Features	Direct Sampling	Yes
	Closed-tube sampling	Optional
	Direct from track sampling	Optional
	Auto sampler	Yes
	Computer Interface	RS232 bidirectional, RJ45 bidirectional, Both Autorequest
	LIS Interface	Yes
	Bar Code Regents Reader	Yes
	Printer type	Laser printer, Built-in Thermal
	Calibration	Automatic, Manual
	Internal Quality Control	Yes
	Inventory management controlled by software	Optional
	Liquid Level Detection	Optional
	Type of data management	PC based, inbuilt system
	PC monitor type	LCD / LED, NA for inbuilt
	PC monitor size in inches	15 or more, NA for inbuilt
	PC hard disk	>500 GB, NA for inbuilt
	Number of USB port	2 or more
	Inbuilt Display	LCD, LED, TFT, Touch screen
	Computer System Operating OS	Windows 10 or equivalent
Power Requirements	Resettable over current breaker shall be fitted for protection	Yes
	Power backup	UPS
	Back up time in minutes	15
	UPS Maintenance to be provided by seller	Yes

Specification	Specification Name	Bid Requirement (Allowed Values)
Accessories, spare parts and consumables	"Offered equipment unit to be supplied with sufficient consumables for PT&APTT tests (with at least 2/3rd of total shelf life) required for, sufficient to carry out testing of samples"	1000
Miscellaneous Parameters	Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue)	2
	Number of installations of the machines in Central /State/PSU Govt Hospitals(Note: Seller should supply a performance certificate of the device to the buyer if demanded after placement of order)	More than 3
Certification	CE / EC / UK Cert / US FDA / BIS	