

Amendment No. 8**Sub: Amendment No. 8 to the TED****01-06-2018****Ref: HITES/PCD/MP/03/PRECLINICAL/17-18 Dated: 27.10.2017 & subsequent amendments.**

The following amendments are being incorporated to the TED :

**SECTION - I
NOTICE INVITING TENDER (NIT)****Existing:**

Sl.No.	RFx. No.	Equipments	Qty	Tender Processing Fee	EMD
6	3000002348	Rotary Microtome	14	590	5,600
30	3000002372	Centrifuge, electrical high power	23	590	11,500
31	3000002373	CO2 Incubator	14	2,360	140,000
32	3000002374	Deep freezer (-20 degree Celsius)	14	590	35,000
33	3000002375	Deep freezer (-80 degree Celsius)	7	1,180	70,000
41	3000002383	Semi- Automated Rotary Microtome	21	2,360	126,000
51	3000002393	Fluorescent Microscope	7	3,540	210,000
57	3000002399	Cold Storage For Dead Bodies	16	3,540	320,000

Read As:

Sl.No.	RFx. No.	Equipments	Qty	Tender Processing Fee	EMD
6	3000002348	Rotary Microtome with knives/ Blades- Manual	14	590	5,600
30	3000002372	Centrifuge, electrical high power	33	590	16,500
31	3000002373	CO2 Incubator	20	2,360	2,00,000
32	3000002374	Deep freezer (-20 degree Celsius)	23	590	57,500
33	3000002375	Deep freezer (-80 degree Celsius)	11	1,180	1,10,000
41	3000002383	Fully Automatic Rotary Microtome with knives/ Blades	21	2,360	126,000
51	3000002393	Fluorescent Microscope	Deleted		
57	3000002399	Cold Storage For Dead Bodies	23	3,540	4,60,000

The due date of submission and opening of items remains unchanged as per Amendment No: 7 dated 19.05.2017.**SECTION - VI
LIST OF REQUIREMENTS****Existing:**

Sl. No.	Rfx. No.	Equipments	Qty. for Vidisha & Ratlam	Qty. for Chindwara, Dataia, Khandwa, Shahdol & Shivpuri	Department	Total Requirement for 07 colleges
6	3000002348	Rotary Microtome	1	1	Anatomy	14
			1	1	Pathology	
30	3000002372	Centrifuge, electrical high power	4	3	Microbiology	23
31	3000002373	CO2 Incubator	2	2	Microbiology	14
32	3000002374	Deep freezer (-20 degree Celsius)	1	1	Microbiology	14
			1	1	Forensic Medicine	
33	3000002375	Deep freezer (-80 degree Celsius)	1	1	Microbiology	7
41	3000002383	Semi- Automated Rotary Microtome	2	2	Pathology	21
			1	1	Forensic Medicine	
51	3000002393	Fluorescent Microscope	1	1	Pathology	7
57	3000002399	Cold Storage For Dead Bodies	3	2	Forensic Medicine	16

Read As:

Sl. No.	Rfx. No.	Equipments	Qty. for Vidisha & Ratlam	Qty. for Chindwara, Dataia, Khandwa, Shahdol & Shivpuri	Qty. For Virology Lab, GMC Bhopal	Department	Total Requirement for 07 colleges
6	3000002348	Rotary Microtome with knives/ Blades- Manual	1	1		Anatomy	14
			1	1		Pathology	
30	3000002372	Centrifuge, electrical high power	4	3	10	Microbiology	33
31	3000002373	CO2 Incubator	2	2	6	Microbiology	20
32	3000002374	Deep freezer (-20 degree Celsius)	1	1	9	Microbiology	23
			1	1		Forensic Medicine	
33	3000002375	Deep freezer (-80 degree Celsius)	1	1	4	Microbiology	11
41	3000002383	Fully Automatic Rotary Microtome with knives/ Blades	2	2		Pathology	21
			1	1		Forensic Medicine	
51	3000002393	Fluorescent Microscope	Deleted				
57	3000002399	Cold Storage For Dead Bodies	1	1		Anatomy	23
			3	2		Forensic Medicine	

Section – VII
Technical Specifications

SCH 06. Rotary Microtome with knives/ Blades- Manual (Rfx no. 3000002348)		
Para	Existing specification	Read as
	Rotary microtome complete with standard accessories e.g. disposable blade holder, specimen clamp, tool kit operating manual	Rotary microtome complete with standard accessories e.g. knife holder , disposable blade holder, specimen clamp, tool kit operating manual.
4	Vertical stroke 60 mm or more	Vertical stroke 58 mm or more
7	Single disposable blade holder for accommodating both high and low profile blades	Disposable blade holder for accommodating both high and low profile blades.
12	Specimen holders – Plastic (as many as required)	Specimen holders – Plastic (100 os.)
13	The equipment should conform to ISO 9001 & CE/BIS.	The equipment should conform to ISO 9001 & European CE or FDA or BIS
SCH 28. Biosafety Cabinet Type - 2A (Rfx no. 3000002370)		
Para	Existing specification	Read as
11	Should meet NSF standards. Product should be European CE with 4 digit notified body no or US FDA certified	Should meet NSF/ EN 12469 standards . Product should be European CE with 4 digit notified body no or US FDA certified .
12	Movable stands	Deleted
SCH 30. CENTRIFUGE CLINICAL (Rfx no. 3000002372)		
	Existing specification	Read as
	Tube Capacity :No. 24 :Size 5 – 15 ml	swing out / fix angle rotor or both with adapters for 24x15 ml conical tubes, 5-7 ml vaccutainers.
	Maintenance-free brushless drive motor with exact speed preselection and display. Speed range 100 to 6000 rpm and above, accuracy 1 rpm.	Maintenance-free brushless drive motor with exact speed pre selection and display. Speed range 100 to 4000 rpm and above, accuracy 1 rpm.
	RPM : Up to 6000	Deleted
		Added Para:- 1. System should USFDA or European CE approved. Also the system should be IVD approved. 2. All the rotors with lid should be mettalic, certified aerosol tight and fully autoclable @121 deg C .

SCH 31. CO2 INCUBATOR (AIR JACKETED) WITH AUTOMATIC STERILIZATION (Rfx no. 3000002373)		
Para	Existing specification	Read as
1	Inner total volume 180 to 190 liters.	Inner total volume 170 to 190 litres.
2	Temperature range: +50 degree above ambient to +55degree.	Temperature range: +5 degree above ambient to +50 degree.
5	Thermal conductivity sensor with two year warranty.	Thermal conductivity sensor/ IR sensor (sensor should be covered under warranty and CMC)
6	On demand sterilization at 140 degree with 12	On demand sterilization / High temp decontamination @ 120 deg C-140 with 12 hours.
SCH 33. Deep Freezer(-80 °C) (Rfx no. 3000002375)		
Para	Existing specification	Read as
9	Freezer should have the sample (2" vials) capacity of 50,000 or more.	Freezer should have the sample (2" vials) capacity of 20,000 or more.
SCH 38. Serum inspissators (Rfx no. 3000002380)		
	Existing specification	Read as
	Capacity for up to 156 test tubes (16mm diameter x 150mm long) or min 100 McCartney bottles	Capacity for up to 156 test tubes (16mm diameter x 150mm long) or 162 universal containers or min 100 McCartney bottles
	Double walled. Inner SS 304 and outer GI.	Double walled. Inner SS and outer GI/ MS with powder coated.
	Full length inner glass or acrylic door for clean view.	A blanket should be placed over the containers to exclude draughts and a quilted cover provides thermal insulation. Blanket and quilt should be supplied along with system are made from insect-resistant materials.
	Should bear an ISI mark	European CE certified (with four digit notified body no.) / US FDA certified.
SCH 39 Automated Blood Culture System		
	Existing specification	Read as
	Should have modular design which is upgradeable and should be FDA approved	Deleted
	Capacity: 400 bottles	Capacity: 400 or More bottles
	Electrical Safety conforms to standards for electrical safety IEC-60601/IS 13450	Electrical Safety conforms to standards for electrical safety IEC-60601/ IEC 61010-1/IS 13450
	Should be FDA/ CE/ ISI approved product.	European CE certified (with four digit notified body no.) / US FDA certified.
SCH 41. Semi Automatic Rotary Microtome with knives/ Blades(Rfx no. 3000002383) Read as:- Fully Automatic Rotary Microtome with knives/ Blades		
Para	Existing specification	Read as
	The instrument should have Motorised feeding system with optional motorized and manual sectioning with rocking mode facility	The instrument should have Motorised feeding system and manual sectioning with rocking mode facility.
1	Semi Automatic Microtome for variable specimen retraction and sectioning. Five digit digital display.	Fully Automatic Microtome for variable specimen retraction and sectioning. Four digit digital display.
4	Section thickness setting from 1um to 99um in 1um increments. Cutting speed 0.430mm/sec	Section thickness setting from 1um to 99um in 1um increments.
		Added para:- 1. The equipment should be FDA (USA)/CE (European) approved. Manufacturer should be ISO 13485 certified by competent authority. 2. Universal disposable Blade Holder common for both low profile and high profile blades
SCH 42. Freezing Microtome with a stand for carbondioxide cylinder(Cryostat) (Rfx no. 3000002384) Read as:- Freezing Microtome(Cryostat)		
	Existing specification	Read as
	1 Description of Function	• The instrument should be open top free standing instrument
	1.1 A sledge microtome where the sample is placed into a	• Should have heavy duty Rotary Microtome bearing in stainless steel

fixed holder (shuttle), which then moves backwards and forwards across a knife. Freezing microtome is used for cutting thin to semi-thin sections of fresh frozen tissue	<ul style="list-style-type: none"> • Should be suitable for sectioning of all types of frozen tissues • Should have electronically controlled motorized coarse advance and manual section cutting via hand wheel. Should also have mechanical hand wheel lock
1 Radial Cutting facility	<ul style="list-style-type: none"> • Chamber illumination should be through bright white light having adjustable of chamber brightness to meet operator needs • Chamber cooling should be at $-35 \pm 3^{\circ}\text{C}$.
a) Knife: 3 1/4" (8cm)	<ul style="list-style-type: none"> • Should have integrated peltier fast freezing device that rapidly cools to -55 to -57°C
b) Section Thickness: 5 microns and up Calibrated 5-40 microns	<ul style="list-style-type: none"> • Should have inbuilt maximum cryobar storage positions (at least 27) including 4 quick freeze locations.
2 Sledge Cutting	<ul style="list-style-type: none"> • Section thickness range should be 1 to 500 p.m
a) Knife: 6 2/3" (17cm)	<ul style="list-style-type: none"> • Trimming thickness range should be 5 to 100vm or more
b) Section Thickness: 0.4 microns and up Calibrated -12 microns	<ul style="list-style-type: none"> • Should have vertical stroke length of at least 64mm or more
Speed Range:-	<ul style="list-style-type: none"> • Should have automatic specimen retraction on return stroke
Maximum: 28 Sections per minute	<ul style="list-style-type: none"> • Horizontal feed range to 28mm.
Minimum: 2 sections per minute	<ul style="list-style-type: none"> • Should have the provision of automatic programmable defrost system for immediate defrosting
Freezer for Microtome	<ul style="list-style-type: none"> • Should have universal blade holder suitable for high profile and low profile disposable blades.
a) Temperature Range: -40°C to $+100^{\circ}\text{C}$	<ul style="list-style-type: none"> • Should have Inbuilt on-demand UV disinfection to protect against surface contamination.
b) Resolution: 1/2 amp (curr. readout) 0.1°C , digital display	<ul style="list-style-type: none"> • Should have standby/ sleep mode preferable for power saving
c) Heat Removal: 1/2 liter/min. Tap water or circulating pump & tank unit	<ul style="list-style-type: none"> • Operable at 230V,50Hz.
d) Accessories: Thermocouple microprobe	<ul style="list-style-type: none"> • Manufacturing company should be ISO Certified,
e) Should have a stand for CO2 Cylinder.	<ul style="list-style-type: none"> • Equipment should be European CE/USFD
Automatic protection against overheating in case of water supply failure	
Controller can be used as an independent digital thermometer and needle microprobe should be provided for this purpose.	
2 Power Supply	
Power input to be 220-240VAC, 50Hz	
3 Standards, Safety and Training	
CE/ BIS approved product.	

SCH 43. Automatic Tissue Processor (Rfx no. 3000002385)

Para	Existing specification	Read as
3.1	Capacity (a) 200-250 cassettes in organized basket (b) 275-300 random basket	Capacity (a) 200-250 cassettes in organized basket (b) 200-300 random basket
3.4	Following programs should be available: – Number of programs: 10-12 (selectable) – Programmable time per station: From 1 minute to 100 hours – Spiral agitation, Vertical agitation, and gentle spinning should be programmable. – Program can be delayed start or finished upto 5-7 days in advance. -3 Flush options	Following programs should be available: – Number of programs: 08-12 (selectable) – Programmable time per station: From 1 minute to 99 hours – Reagent agitation. – Program can be delayed start or finished up to 5-7 days in advance. -3 Flush options
3.13	Power back up with facility for the basket to remain immersed in solution during power failure	Power back up with facility for the basket to remain immersed in solution during power failure for more than 30 mins.

SCH 45. Pentahead Microscope (Rfx no. 3000002387)

	Existing specification	Read as
	Stage rotation of 270 degrees with Stage Lock	Stage rotation of 200 degrees or better with Stage Lock
	Illuminator : Built-in-Koehler illumination for transmitted light LED bulb (pre-centered) and with auto light intensity Adjustment with change of objective lens	Illuminator: Built-in-Koehler illumination for transmitted light LED bulb/ 100W Halogen with 15 no .spare bulb (pre-centered).
	Revolving nosepiece : Interchangeable/Removable Reversed Coded Quintuple Nosepiece for auto light adjustment with facility of toggle button to enable swiping of objectives (i.e Revolving nose piece should be automated/ motorized)	Revolving nosepiece: Interchangeable/Removable Reversed Coded Quintuple Nosepiece .
	Observation tube: Wide field Trinocular head with Field no 22 mm or more with three Light path selection of 100:0, 20:80 and 0:100	Wide field Trinocular head with FOV 22 or above Observation tube with three light path selection . Addition 4binaculartube with FOV 22 or more

	Digital Camera: Camera attachment capable of handling bright field , dark field images with 2/3" high density CCD Chip, Approx 5.24 Million pixel resolution Built-in TFT LCD monitor (8.4-In) White Balance adjustment, Image Adjustment (Gamma Correction, shading Adjustment, Black level adjustment Hue Wheel variation, colour saturation adjustment)	Digital Camera: Camera attachment capable of handling bright field, dark field images with 1/2.3" CMOS or 2/3" high density CCD Chip, more than 5 Million pixel resolution with 17" or better TFT LCD monitor White Balance adjustment, Image Adjustment (Gamma Correction, shading Adjustment, Black level adjustment Hue Wheel variation, colour saturation adjustment)
	Software: Image analysis software that include length, width and circle measurements, comparison of images on PC if not inbuilt supplier has to supply the suitable PC, Printer	Software: Image analysis software that include length, width and circle measurements, comparison of images on PC. Branded PC with 4GB RAM, 500GB HDD, Win 8/10, Graphic card 1GB with 17" or better HD monitor, Printer.
		Added para:- LED pointer should be supplied along with microscope
SCH 46. Decahead Microscope (Rfx no. 300002388)		
	Existing specification	Read as
	Stage rotation of 270 degrees with Stage Lock and	Stage rotation of 200 degrees or better with Stage Lock and
	Illuminator : Built-in-Koehler illumination for transmitted light LED bulb (pre-centered) and with auto light intensity Adjustment with change of objective lens	Illuminator : Built-in-Koehler illumination for transmitted light LED bulb/ 100W Halogen with 15 no spare bulb (pre-centered)
	Revolving nosepiece : Interchangeable/Removable Reversed Coded Quintuple Nosepiece for auto light adjustment with facility of toggle button to enable swiping of objectives (i.e Revolving nose piece should be automated/ motorized)	Revolving nosepiece: Interchangeable/Removable Reversed Quintuple Nosepiece.
	Observation tube: Wide field Trinocular head with Field no 22 mm or more with three Light path selection of 100:0, 20:80 and 0:100	Wide field Trinocular head with FOV 22 or more Observation tube with three light path selection.
	Digital Camera: Camera attachment capable of handling bright field , dark field images with 2/3" high density CCD Chip, Approx 5.24 Million pixel resolution Built-in TFT LCD monitor (8.4-In) White Balance adjustment, Image Adjustment (Gamma Correction, shading Adjustment, Black level adjustment, Hue Wheel variation, colour saturation adjustment)	Digital Camera: Camera attachment capable of handling bright field , dark field images with 1/2.3" CMOS or 2/3" high density CCD Chip, more than 5 Million pixel resolution with 17" or better TFT LCD monitor White Balance adjustment, Image Adjustment (Gamma Correction, shading Adjustment, Black level adjustment, Hue Wheel variation, colour saturation adjustment)
	Software: Image analysis software that include length, width and circle measurements, comparison of images on PC if not inbuilt supplier has to supply the suitable PC, Printer	Software: Image analysis software that include length, width and circle measurements, comparison of images on PC. Branded PC with 4GB RAM, 500GB HDD, Win 8/10, Graphic card 1GB with 17" or better HD monitor, Printer.
		Added para:-" LED pointer should be supplied along with microscope"
SCH 47. Grossing work station (Rfx no. 300002390)		
	Existing specification	Read as
	Specifications: Programmable microprocessor for date, time & filter replacement alarm.	Deleted
	OPTIONAL ACCESSORIES REQUIRED – Tea strainer faucet with manual control, bracket and tea strainer.	Deleted
SCH 48. Five part Fully Automated Cell Counter (Rfx no. 300002390)		
Para	Existing specification	Read as
3	Must automatically enumerate Nucleated Red Blood Cells in the CBC/Diff Mode and without additional reagents	Should have discrete mode to save the cost of reagents CBC CBC+Diff Retic CBC+Diff+nRBC CBC+Diff+Retic+Nrbc
7	Extended Platelet counting	Deleted
17	Should have auto stop function in event of unacceptable control data	Should have auto stop function in event/ QC failed alarm in case unacceptable control data

21	WBC linearity should 0.0 to 3000 x 1000 cells/microlitres	WBC linearity should 0.0 to 300 x 1000 cells/microlitres
23	Must extend analysis time for cytopenic samples (RBC, Plt and WBC)	Deleted
	Cost for 1000 Test with allreagent, should be supplied with separate rate provided, rate will be calculated for L1 Ranking.	Cost for 1000 Test with all reagent, should be supplied with separate rate provided, rate will be calculated for L1 Ranking. And price will be freezed for three years (50 sample per day for calculation).
		Added para:- 1. Should be supplied with external printer 2. Control reagents till warranty. (Normal, High, Low)
SCH 49. Three Part Fully Automated Cell Counter (Rfx no. 3000002391)		
Para	Existing specification	Read as
	Cost for 1000 Test with allreagent, should be supplied with separate rate provided, rate will be calculated for L1 Ranking.	Cost for 1000 Test with all reagent, should be supplied with separate rate provided, rate will be calculated for L1 Ranking. And price will be freezed for three years (50 sample per day for calculation).
SCH 50. Fully Automated Coagulation Analyser (Rfx no. 3000002392)		
Para	Existing specification	Read as
3	Tests available: PT, APTT, Fibrinogen, TT, LA, All Factors, ATIII, Heparin, PC, PS, PLG, AP, APCR, DDI, FDP, FM , vWF, etc.	Tests available: PT, APTT, Fibrinogen, TT, LA, All Factors, ATIII, Heparin, PC, PS, PLG, AP, APCR, DDI, FDP, vWF, etc.
13	Availability of minimum 300 cuvette capacity in a roll with continuous loading.	Should be as availability of on board 300 cuvettes with continuous loading without stopping the instrument.
17	Availability of minimum 50 sample positions with continuous loading /STAT facility.	Availability of minimum 30 or more sample positions with continuous loading /STAT facility.
SCH 51. Fluorescent Microscope (Rfx no. 3000002393) Item Deleted		
SCH 52. Automated Slide Stainers with workstation (Rfx no. 3000002394)		
	Existing specification	Read as
	Should be programmable for routine H & E & other special stains with facility for imuno-histochemical stains & memory of various staining procedures	Should be programmable for routine H & E & other special stains & memory of various staining procedures.
	Should hold about 80 slides per basket	Should hold about 30 or more slides/basket per basket
	Basket chemical capacity 750-1000ml	Basket chemical capacity 300-600ml
	At least 2(two) water stations with 24 work stations,(Programmable) with timing in minutes & second & facility for single & double load.	At least 2(two) water stations with 18 -20 work stations,(Programmable) with timing in minutes & second & facility for single & double load.
	Can be connected with any make automatic cover-slipper	Deleted
	A fume hood completely covering the slide plates to prevent hazardous fumes from entering the lab area and an activated charcoal filter to minimize solvent vapors should be provided.	System should have compact fully covered design protecting the hazardous fumes coming into the lab and activated charcoal filter to minimize solvent vapors should be provided.
SCH 53. Infusion pumps(Insulin or Drug or Bed side) (Rfx no. 3000002395)		
Para	Existing specification	Read as
2	Must Work on commonly available standard 5ml/10ml/20ml/50ml/60 ml Syringes with accuracy of minimum of +/-2% or better, with automatic syringe size recognition.	Must Work on commonly available standard 10ml/20ml/50ml/60 ml Syringes with accuracy of minimum of +/-2% or better, with automatic syringe size recognition.
6	Display of Drug directory of more than 50 drugs, customized and adjustable.	Display of Drug directory of more than 20 drugs , customized and adjustable.
15	Mounting device/ Docking Station for at least four pumps as per requirement so as to enable to power up to 4 pumps with one power cord when mounted on IV pole –Twenty nos. for each AIIMS.	Mounting device/ Docking Station for at least four pumps as per requirement so as to enable to power up to 4 pumps with one power cord when mounted on IV pole (Price Should be quoted separately)

SCH 54.Manikins (Rfx no. 300002396)		
Sl. No	Existing specification	Read as
1	Full demonstration of intravenous injection, enema, local, intramuscular injections, intracardiac injection and other routes of drug administration with CPR	1. Intramuscular route 2. Intravenous route 3. subcutaneous route 4. Intracardiac 5. Oral 6. Local route. 7. Enema, 8. Intradermal route. 9. Cardiopulmonary resuscitation with CPR. (price to be quoted individually for particular manikin)

**Section – XIX
Consignee List**

Read as:

Sl. No.	Name of Hospital and Address	State
1	Government Medical College Chhindwara, Near T. B. Sanatorium, Chhindwara, M.P.	Madhya Pradesh
2	Government Medical College, Datia Thandi Sadak, Near 29 th Batallian, NH – 75, Datia, 475661, M.P	Madhya Pradesh
3	Government Medical College, Khandwa Love Kush Nagar, Khandwa, 450001 Madhya Pradesh	Madhya Pradesh
4	Government Medical College, Ratlam Village- Banjali Sailana Road, Ratlam, M.P.	Madhya Pradesh
5	Government Medical College, Shahdol Village Champa, Kudri Road, Near New Bus stand, Shahdol, MP.	Madhya Pradesh
6	Government Medical College, Shivpuri Gwalior Highway, Near Katha mil, Shivpuri (M.P).	Madhya Pradesh
7	Government Medical College, Vidisha Sanchi Road, Vidisha (M.P).	Madhya Pradesh
8	The Dean, Gandhi Medical College Sultania Rd, Royal Market, Near Hamidia Hospital, Bhopal, Madhya Pradesh 462001	Madhya Pradesh

Note:

- i. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids.
- ii. If EMD is submitted in the form of BG, then the validity of the BG should be at least 165 days from the date of tender opening.

All other contents of the tender enquiry including terms & conditions remain unaltered.