

## Department of Pathology

Sr.no	Name of Equipment	Specification	Qty. Required	Suggested Manufacturers Name	Approx. Unit Cost (Rs.)	Usage
1	<b>Automatic tissue processor</b>	<p>Fully automatic carousel type with 12 stations with 10 reagent stations and 2 wax baths. Connection for optional third wax bath.</p> <ul style="list-style-type: none"> <li>· The system should have inbuilt vacuum and with fume control.</li> <li>· Metal tissue basket having less base diameter compare to upper diameter to avoid baskets getting stuck and capacity <b>&gt;100 cassettes.</b></li> <li>· Audible alarms, error message and warning codes.</li> <li>· Ergonomic control panel with full protected keyboard and LCD.</li> <li>· Easy editing and changing of programs, even during a processing run.</li> <li>· Delayed start function up to &gt; 7 days.</li> <li>· Infiltration time separately programmable for each station.</li> <li>· More than 8 freely selectable programme</li> <li>· Drain time 60 seconds between stations</li> <li>· Machine should have the option of interrupting an automatic process for reloading or removing cassettes if needed to before the end of a run.</li> <li>· Baskets should be automatically immersed in a station during the power failure.</li> <li>· Indication of date, time, remaining time in process step, step number and reagent</li> </ul>	1	<p>*Shandon</p> <p>*LEICA</p> <p>*ICS-YORCO</p>	1500000/-	<p><b>For Histopathological Investigations.</b></p> <p><b>For better quality of Histopathological sections.</b></p> <p><b>For better processing of tissue for Histopathological examinations.</b></p>

		<p>description.</p> <ul style="list-style-type: none"> <li>· Should have Power back up (UPS)</li> </ul>				
2	<b>Rotary Microtome</b>	<ul style="list-style-type: none"> <li>· Manual type with specimen clamps, user selectable coarse feed wheel turn direction, retraction on/off function and blade holder for disposable blades.</li> <li>· Easy orientation of specimen holder in two axes.</li> <li>· The vertical stroke of at least 59 mm and horizontal specimen travel range of 25 mm with section specimen size of atleast 40 mm x 40 mm.</li> <li>· Ergonomically designed hand wheel grip.</li> <li>· Instrument should be able to cut serial sections with setting from 0.5 to 60 micrometers</li> <li>· Section increment: <ul style="list-style-type: none"> <li>§ from 0 to 2 um in 0.5 um steps.</li> <li>§ from 2 to 10 um in 1 um steps.</li> <li>§ from 10 to 20 um in 2um steps.</li> <li>§ from 20 to 60 um in 5 um steps.</li> </ul> </li> <li>· Coarse feed: manual via coarse feed wheel.</li> <li>· Trimming thickness selections: 10 and 50 um.</li> <li>· Provide 20 packet of low disposable blades (50/packet)</li> </ul>	1	<ul style="list-style-type: none"> <li>*LEICA</li> <li>*Shandon</li> <li>*Thermo Scientific</li> </ul>	600000/-	<b>For cutting of Histological sections.</b>
3	<b>Automated Staining system for</b>	<p>Specifications</p> <p>Fully Automated • Baking, deparaffinization, cell conditioning and staining, including IHC ,</p>	1	*LEICA	2200000/-	<b>For better staining of Histopathological sections.</b>

	<b>IHC/ISH/Special Stains</b>	<p>ISH, SISH, immunofluorescence, multiparameter IHC staining (dual, triple), counter stain, and titration or better.  Slide capacity 1 – 30 slides or more with independent processing/functionality and temperature control for each position  Reagent capacity : 20 or more reagent positions  Use proprietary eco-friendly deparaffinization solution  Slides size 25 x 75 mm, 1 x 3 inches or 26 x 76 mm  Immediate processing of high priority slides  Add new slides and remove stained slides during a run  up to 90 or more slides stained in one 8-hour shift  Bulk solutions :Up to 7 different bulk reagents to be changed without process interruption  Audio and visual prompts in multiple languages  Waste capacity--- 8 Litres or more, waste level sensor and changeability without process Interruption  DI Water Supply • NCCLS Type II water or equivalent (deionized water)  Temperature Uniformity +/- 2°C  Reagent Dispensing Accuracy: +/- 5% or better</p>		<p><b>*Shandon</b>  <b>*Thermo Scientific</b></p>		<b>For immunohistochemical staining.</b>
<b>4</b>	<b>Cyto centrifuge</b>	<ul style="list-style-type: none"> <li>•The speed is selectable between RPM or RCF from 100 to 6,000 rpm or better</li> <li>•The acceleration can be set to fast, medium, or slow in order to protect the cells.</li> </ul>	<b>1</b>	<p><b>*LEICA</b>  <b>*Shandon</b></p>	<b>800000/-</b>	<b>For processing of fluids for cytological examination.</b>

		<ul style="list-style-type: none"> <li>•The stopping times should be programmable for gentle cell treatment.</li> <li>•Alarm function indicating unbalance</li> </ul>		<ul style="list-style-type: none"> <li>*Remi</li> <li>*LABCON</li> </ul>		For proper smear M.
5	<b>Three part differential hematology analyzer</b>	<p>System should have facility to report 20 parameters with three histograms. The parameter given should be WBC, LYM%, MIX%, NEUT%, LYM#, MIX#,NEUT#, RBC, HGB,MCV,MCH, MCH,MCHW,RDW-SD/CV,PLT,PDW,MPV, P-LCR and three histograms for WBC, RBC &amp;PLT.</p> <p>System should have the separate Neutrophil counts in differential WBCs count.</p> <p>System should have the floating discriminator to differentiate between Lymphocyte, Mix population and Neutrophils.</p> <p>System should have the Hydrodynamic focusing DC detection method fo RBC &amp; platelet count.</p> <p>System should have the Non-Cyanide hemoglobin analysis method for hemoglobin analysis.</p> <p>System should have the measured HCT (Hematocrit) by the cumulative pulse height detecting method.</p> <p>System should work on Sample Rotor Valve for precise sampling of blood.</p> <p>System should have the speed of 60 samples/Hr.</p> <p>System should have the facility of whole blood and Pre-diluted blood.</p> <p>System should have the memory of least 20 samples with three histograms.</p> <p>System should be supported by internal &amp; external quality control program.</p>	1	<ul style="list-style-type: none"> <li>*Transasia</li> <li>*Beckman Coulter</li> <li>*Mindray</li> <li>*ABACUS</li> </ul>	500000	<p>For analysis of peripheral blood for following investigation-</p> <p><b>Complete blood count including</b></p> <p><b>TLC</b></p> <p><b>DLC</b></p> <p><b>Hemoglobin</b></p> <p><b>Platelet</b></p> <p><b>RBC count</b></p> <p><b>Hematocrit</b></p> <p><b>RBC Indices</b></p> <p><b>Red cell distribution width.</b></p>

		<p>System should have a inbuilt help menu with touch screen operation.</p> <p>It should have a inbuilt thermal printer and facility to interface with computer.</p> <p>It should have Auto probe wiping facility for operator safety.</p> <p>System should have the option for Cap Piercing.</p> <p>It should have facility to enter the name of patient and lab or hospital.</p> <p>It should be supported by well trained service team</p>				
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