

**Siddhartha Children & Women Hospital-**  
**AMDA Institute of Health Science- Butwal**  
**Butwal-7, Rupandehi**

**"Estimation & Specification of Pharmacy/Microbiology Lab Equipment"**

SN	Items	Unit	Qty	Estimated Cost	Specification	Bidder,s Compliance Yes/No	Refrence Page No.	Remarks																
1	Hand Operated Single Punch Tablet Press, Automation Grade: Manual	set	1	2,40,000.00	<ul style="list-style-type: none"> <li>• This single punch Electrical tablet press with advanced technologies,</li> <li>• It can press round or irregular tablets from various shapes.</li> <li>• It operates automatically i.e. the tablets are filled, pressed and ejected continuously.</li> <li>• It has high precision of filling, low-noise, low-consumption of material, and it works smoothly.</li> <li>• It is heavy duty machine to press tablets.</li> <li>• The machine is fitted with ground crank and gunmetal bushes.</li> <li>• All moving parts have easy lubricating arrangements.</li> <li>• The machine is powered by 1 H.P., Electric motor.</li> <li>✓ Capacity: Up to 3000 Tablets/hour approx.</li> <li>✓ Machine Type : Hand Operated</li> <li>✓ Automation Grade: manual</li> <li>✓ Material : SS</li> <li>✓ Dimension: 450mm (L) x 550mm (W) x 750mm (H) approx.</li> </ul>																			
2	Hand Operated Capsule Filling Machine 100 Hole	Set	1	24,000.00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Capacity</td> <td>Upto 3000 Capsules/Hour</td> </tr> <tr> <td>Machine Type</td> <td>Hand Operated</td> </tr> <tr> <td>Automation Grade</td> <td>Manual</td> </tr> <tr> <td>Size/Dimension</td> <td>compact</td> </tr> <tr> <td>Design</td> <td>natural</td> </tr> <tr> <td>Packaging Type</td> <td>box</td> </tr> <tr> <td>Material</td> <td>Mild Steel</td> </tr> <tr> <td>Contact Parts</td> <td>stainless steel</td> </tr> </table> <ul style="list-style-type: none"> <li>✓ A compact hand operated machine suitable to fill two-part hard capsules no. 0, 1 &amp; 2 by interchangeable plate.</li> <li>✓ Main body made of heavy cast iron and all contact parts made of brass richly plated or stainless steel.</li> <li>✓ Handle locking arrangement makes the operator to lift the loading plate without fear of damaging the capsules',</li> <li>✓ CAPSULE FILLING machine of 100 holes, stainless steel, warranty for 1 yr.</li> </ul>	Capacity	Upto 3000 Capsules/Hour	Machine Type	Hand Operated	Automation Grade	Manual	Size/Dimension	compact	Design	natural	Packaging Type	box	Material	Mild Steel	Contact Parts	stainless steel			
Capacity	Upto 3000 Capsules/Hour																							
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Design	natural																							
Packaging Type	box																							
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3	DOUBLE CONE BLENDER	set	1	1,20,000.00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Motor</td> <td>0.5 HP 3ph 1440rpm</td> </tr> <tr> <td>Capacity</td> <td>12 Kg ≈ 30 Ltrs.</td> </tr> <tr> <td>Contact Part</td> <td>S.S. 316</td> </tr> <tr> <td>Gear Box</td> <td>C/d 2.5" Ratio 1:22</td> </tr> <tr> <td>RPM</td> <td>Approx. 36</td> </tr> <tr> <td>Net Weight</td> <td>Approx. 80 Kgs.</td> </tr> </table> <ul style="list-style-type: none"> <li>The conical shape at both ends enables uniform mixing and easy discharge.</li> <li>All contact parts are made out of stainless 316 quality material, as required by customer.</li> <li>One shaft with 04 nos. of fixed baffles with mirror polished provided inside the cone.</li> <li>Cone will be mirror polished from the inside; outside &amp; structure.</li> <li>All moving parts covered with SS304 covers.</li> <li>Safety guards made from SS304 flats provided in front of the m/c with Selector switch.</li> <li>The conical shape at both ends enables uniform mixing and easy discharge.</li> <li>All contact parts are made out of SS316 quality material.</li> <li>Maximum care has been taken to ensure safe operation of the unit.</li> <li>Worm reduction gear use for speed reduction.</li> </ul>	Motor	0.5 HP 3ph 1440rpm	Capacity	12 Kg ≈ 30 Ltrs.	Contact Part	S.S. 316	Gear Box	C/d 2.5" Ratio 1:22	RPM	Approx. 36	Net Weight	Approx. 80 Kgs.							
Motor	0.5 HP 3ph 1440rpm																							
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					Food grade rubber gasket will be used on both end of cone.				
					Inside & outside of the cone will be polished to the mirror finished.				
					General structure made out of SS304 and Polished to the mirror finish				
4	Tablet Friability Test Apparatus Single Drum	Set	1	12,000.00	Capacity	Single and Double rum			
					Display	Digital and Analog			
					This apparatus is designed to determine the abrasion rate and impact the hardness of the tablet. One transparent acrylic drum is rotated				
					Speed: 25 ± 1 RPM				
					Motor: 1/8 Hp				
					Power: 230V AC single phase				
5	Microprocessor Dissolution Test Apparatus	Set	1	1,60,000.00	<ul style="list-style-type: none"> <li>6 Station (Model - 1916)</li> <li>Complies with USP, IP specifications</li> <li>Extremely Useful for Pharmaceutical Labs</li> <li>Highly Accurate and Easy to Operate</li> <li>Programmable Stirrer Speed Control i.e. (25 - 200 RPM)</li> <li>20 x 4 Line Alphanumeric LCD with Backlit</li> <li>19 Soft Touch Membrane Type Keys</li> <li>Three Programming Modes i.e. Routine, Sustain and Control</li> <li>20 Independent Programmable Setups for Routine and Sustain Mode with Storage Facility</li> <li>200 Samples Storage Facility</li> <li>Printer Attachment Facility</li> <li>Audio Visual Indicators for System Status</li> <li>Easy to Empty &amp; Clean the Water bath with Bottom Drainage</li> <li>Continuation of Last Sample Run in case of Power Failure</li> </ul>				
					Stations	6 Stations in Model - 1916			
					Display	20 x 4 Line Alphanumeric LCD display with Backlit			
					Keyboard	19 soft touch membrane keys			
					LED'	6 LED's, 3 LED's for Test status like Run, Alarm, End and 2 LED's for Platform up/down status and one for heater ON/OFF status			
					Prog. Mode	Routine, Sustain and Control mode. Facility for 20 different test setups available in Routine and Sustain mode			
					Printer	Provision for the attachment of dot-matrix printer with centronics parallel port interface available			
					Speed	25 - 200 RPM, 1 RPM			
					Resolution	1 RPM			
					Accuracy	1 RPM			
					<b>Temperature:</b>				
					Range	30 - 50 oC			
					Accuracy	1 oC			
					Temp. Control	Microprocessor Based using PT100/Semiconductor Sensor			
					<b>Sampling:</b>				
					Reaction Vessel	1000 ml jars with stirrer pedals and baskets			
					Heater	1 Kw			
					Power	230 V ± 10%, 50 Hz. AC			
6	Microprocessor Tablet Disintegration Test Apparatus	Set	1	61,600.00	<ul style="list-style-type: none"> <li>Display: 20 x 4 Line Alphanumeric LCD with Backlit</li> <li>Keyboard: 15 Soft Touch Membrane Type Keys</li> <li>Accurate &amp; Operating: Highly Accurate and Easy to Operate</li> <li>Storage Facility: 200 Samples</li> <li>Capacity: 1000 cc</li> </ul>				
7	TLC UV Cabinet	set	1	12,000.00	<b>FEATURES AND BENEFITS :</b>				

					Inspection of thin-layer chromatograms and other objects in an undarkened room.			
					A glass filter in the viewing window protects the eyes against reflected short-wave UV light.			
					Base measures 370 x 300 mm inside.			
					For Visualization of test objectives under Tubes having long wave length (365nm), short wave length (254nm) as desired.			
					Use with ultraviolet lamp for Observing fluorescent effect chromatographs etc.			
					Supplied with 3 tubes to work on 230 volts A.C.only.			
					Provides and enclosed viewing space which eliminates external light interference.			
					Control switches mounted on top of the unit.			
					This self-contained unit is designed for easy viewing and making of chromatographs.			
					Minimum space requirements through reduced footprint			
					Power	230		
					Size/Dimension	15 X 12 X 10		
					Light Source	UV lamp		
					Material	MS		
					Automation Grade	Manual		
					Power Source	230		
					Warranty	12 months		
					Voltage	230 V		
					Tube Volume	12 Inch		
					Weight	4 kg		
					Wave Length	254nm Short Wavelength 365nm Long Wavelength		
					Model Number	SAUVC5		
					UV Tube	Short UV and Long UV		
					Packaging Type	Cartoon		
8	Stainless Steel Hot Air Oven for lab	Set	1	28,800.00	Type	Digital		
					Size	18*18*18		
					Model Name/Number	At/2/oven		
					Usage/Application	Laboratory		
					No of trays	4.0, 2.0		
					Display	Digital		
					Body Material	Stainless Steel		
					Material	Stainless Steel		
					No of Chamber	One		
9	Laboratory Incubator	set	1	24,000.00	Usage/Application	Microbiology		
					Color	Gray		
					Size	as per requirments		
					Chamber Volume	250 Litre		
					Number Of Shelves	2 Shelves		
					Temperature Range	5 to 75 degree celsius		
					Voltage	230		
					Frequency	40KhZ		
					Material	MS/SS		
					Warranty	1 Years		
					Capacity	Customized		
					Features	BOD incubators are especially useful for determining levels of organic matter and nitrogen in waste		
					Accuracy	0.01%		
					Air Circulation	Available		
					Alarm	Available		
					Automation Grade	Yes		

					Compressor	Emersion Make			
					Cooling System	Compressor			
					Display Type	Digital LCD/HMI			
					Door Type	Auto Hinges			
					Humidity Range	0-100%			
					Inbuilt Timers	Yes			
					Insulation Thickness	PUF 75mm			
					Meter Type	MS/SS			
					No. Of Samples	2			
					Power	240V AC			
					Resolution	0.01%			
					Thermostat Sensitivity	Available			
					Weight	45Kgs			
					With Door Lock	Yes			
					With Interior Light	Yes			
					With Portable	Yes			
					Operation Type	Automatic			
					Orbit Mm	NA			
					Shape	Squire			
					Time Setting Range	Avilable			
					Min				
					ExtrnalDimnsions	600x750x1250			
					Shelves	2			
					Display Resolution	100%			
					Electrical Requirement	230V AC			
					Speed	980RPM			
					Load Limit	>2mnt			
					Grid Included	Yes			
					Heat Mode	SS tubler Heater			
					Setting	Auto			
10	Laminar Air Flow	Set	1	35,200.00	Usage/Application	Industrial			
					Material	GI Powder Coated/ SS 304			
					Surface Finish	Powder Coated			
					Air Flow	0.45 +- 0.1 m/sec			
					Application	Clean room			
					Model Name/Number	CALAF-1			
					Size	2' X 2' x 2', 3' X 2' x 2', 4' X 2' x 2', 6' X 2' x 2'			
					Height	2 Foot			
					Voltage	415+/- 5 V			
					Color	Off-White			
					Power Supply	215 +/-5 V, 50 Hz, Single Phase			
					MOC	GI Powder Coated/ SS 304			
					Velocity	15+/- 5 m/s			
					<b>Technical Specifications:</b>				
					• Air cleanliness: ISO Class 5 / Class 100 / M 3.5 AREA				
					• Air Velocities: 0.45 ± 0.05 mps (90 ± 20 FPM)				
					• Air Flow: Horizontal / Vertical				
					• Noise Level: Less than 67 dB				
					• Vibration Level: Minimum				

					<ul style="list-style-type: none"> <li>Power Supply: 230 V AC, 1-Ø, 50 Hz</li> <li>MOC: GI Powder Coated / SS-304 / SS-316 / Side panel with Glass / Polycarbonate / Acrylic</li> <li>EU7: Intermediate Filter (95% down to 3 micron)</li> <li>EU14: HEPA Filter - Supply / Exhaust (99.999% down to 0.3 micron) Statically &amp; Dynamically balanced Motor-blower</li> <li>Fluorescent Lights with Milky White Diffuser</li> <li>Differential Pressure Gauges: 01 No. (HEPA Filter)</li> <li>ON / OFF Switches (BL / FL / UV)</li> <li>Auxiliary Powder Socket: 5/15 Amp for external equipment</li> <li>DOP Port</li> <li>DQ, IQ, OQ, PQ Documentation</li> </ul>																	
11	Conical Glass Pycnometer Apparatus	Pcs	5	3,600.00	<table border="1"> <tr><td>Usage/Application</td><td>Laboratory</td></tr> <tr><td>Design Type</td><td>Conical</td></tr> <tr><td>Type Of Glassware</td><td>Heavy-Wall Glass</td></tr> <tr><td>Size/Dimension</td><td>500 ml</td></tr> <tr><td>Material</td><td>Glass</td></tr> <tr><td>Minimum Order Quantity</td><td>500</td></tr> <tr><td>Voltage</td><td>220V</td></tr> </table>	Usage/Application	Laboratory	Design Type	Conical	Type Of Glassware	Heavy-Wall Glass	Size/Dimension	500 ml	Material	Glass	Minimum Order Quantity	500	Voltage	220V			
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12	Automatic Stainless Steel Rectangular Water Bath	Pcs	2	7,000.00	<table border="1"> <tr><td>Automation Grade</td><td>Automatic</td></tr> <tr><td>Material</td><td>Stainless Steel</td></tr> <tr><td>Power</td><td>100W</td></tr> <tr><td>Phase</td><td>Single Phase</td></tr> <tr><td>Shape</td><td>Rectangular</td></tr> <tr><td>Color</td><td>Blue</td></tr> </table>	Automation Grade	Automatic	Material	Stainless Steel	Power	100W	Phase	Single Phase	Shape	Rectangular	Color	Blue					
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13	MELTING POINT APPARATUS	set	1	21,600.00	<table border="1"> <tr><td>Use</td><td>Laboratory</td></tr> <tr><td>Type</td><td>Electric</td></tr> <tr><td>MAKE</td><td>MICROSIL</td></tr> <tr><td colspan="2">This apparatus consists of a cylindrical block of Aluminium with a built in electrical heating element. The mounted Alum. block Various Viscometers may be fixed as an internal part of bath . The bath is rectangular in shape. Inside tank made of Stainless steel sheet. The bath is controlled by an electronic relay and Digital Controller Temperature range 5°C above room temperature to 95°C. Accuracy</td></tr> </table>	Use	Laboratory	Type	Electric	MAKE	MICROSIL	This apparatus consists of a cylindrical block of Aluminium with a built in electrical heating element. The mounted Alum. block Various Viscometers may be fixed as an internal part of bath . The bath is rectangular in shape. Inside tank made of Stainless steel sheet. The bath is controlled by an electronic relay and Digital Controller Temperature range 5°C above room temperature to 95°C. Accuracy										
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14	Capsule shell	Pkt	3	2,500.00	<table border="1"> <tr><td>Color:</td><td>Multicolour</td></tr> <tr><td>Print:</td><td>Non-Printed</td></tr> <tr><td colspan="2">Empty Capsule (Pack of 1000 Capsule),</td></tr> </table>	Color:	Multicolour	Print:	Non-Printed	Empty Capsule (Pack of 1000 Capsule),												
Color:	Multicolour																					
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15	Suppository mould	Pkt	5	2,400.00	<table border="1"> <tr><td>Material</td><td>Brass,Gun metal</td></tr> <tr><td>Surface Finishing</td><td>Polished</td></tr> <tr><td>Application</td><td>Laboratory</td></tr> <tr><td>Capacity</td><td>1 gm,1.5 gm,2 gm</td></tr> <tr><td>Set Moulds</td><td>6-moulds set,</td></tr> <tr><td colspan="2"><b>Suppository Mould</b> Made from brass/gun metal machine made perfect shapes smooth and polished cavities. Nickel plated various</td></tr> </table>	Material	Brass,Gun metal	Surface Finishing	Polished	Application	Laboratory	Capacity	1 gm,1.5 gm,2 gm	Set Moulds	6-moulds set,	<b>Suppository Mould</b> Made from brass/gun metal machine made perfect shapes smooth and polished cavities. Nickel plated various						
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16	Rabbit cage	Pcs	2	8,000.00	<table border="1"> <tr><td>Usage/Application</td><td>Home Purpose</td></tr> <tr><td>Material</td><td>Mild Steel</td></tr> <tr><td>Color</td><td>Blue</td></tr> <tr><td>Shape</td><td>Recatngular</td></tr> <tr><td>Shape</td><td>Rectangular</td></tr> </table>	Usage/Application	Home Purpose	Material	Mild Steel	Color	Blue	Shape	Recatngular	Shape	Rectangular							
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17	Mouse cage	Pcs	2	2,600.00	<table border="1"> <tr><td>Material</td><td>PVC</td></tr> <tr><td>Usage/Application</td><td>LAB USE</td></tr> <tr><td>Color</td><td>White</td></tr> <tr><td>Automation Type</td><td>Semi-Automatic</td></tr> <tr><td>Size/Dimension</td><td>29X22X14 CM</td></tr> </table>	Material	PVC	Usage/Application	LAB USE	Color	White	Automation Type	Semi-Automatic	Size/Dimension	29X22X14 CM							
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Usage/Application	LAB USE																					
Color	White																					
Automation Type	Semi-Automatic																					
Size/Dimension	29X22X14 CM																					

					Thickness	6 MM			
					Packaging Type	Box			
					Material	ABS			
18	Centrifuge Machine	set	1	3,200.00	Is It Portable	Portable			
					Speed	2000 rpm			
					Capacity	8 tube			
					Voltage	220V			
					Usage/Application	Laboratory			
					Doctor centrifuge 8 tubes.				
					copper model				
					with 1year warranty				
					with lid				
					bench top model				
19	Single Beam Portable Digital Visible Spectrophotometers	set	1	35,200.00	Wavelength Range	190-1100 nm			
					Optical System	Single Beam			
					Mobility	Portable			
					Spectral Bandwidth	1 nm			
					Application	Industrial Use			
					Lamp Type	Tungsten Halogen Lamp			
					<b>Digital Spectrophotometer:</b>				
					340-960nm with facility for automatic concentration% Transmission &O.D.measurement				
					3.1/2 digit LED display for result for wavelength 3 digit LED display with 1mm wavelength resolution				
20	Compound Microscope	set	2	13,900.00	Magnification	1000x			
					Portable	Yes			
					Usage/Application	Laboratory, Clinic, Medical, Industrial			
					Portable	Portable			
					Material	Metal			
					Eye Piece	10x or 15X			
					Weight	4.5 kg			
					Warranty	1 Year			
					Objective	4x, 10x, 40x, 100x			
					A microscope with a high resolution and uses two sets of lenses providing a 2-dimensional image of the sample.				
	<b>Total estimated price</b>			<b>8,17,600.00</b>					
	<b>13% VAT</b>			<b>1,06,288.00</b>					
	<b>Grand Total</b>			<b>9,23,888.00</b>					