

# BID FORMS

FOR SUPPLY  
LABORATORY EQUIPMENTS/SOFTWARES  
TO  
School of Biotechnology  
Gautam Buddha University

GAUTAM BUDDHA UNIVERSITY  
GREATER NOIDA – 201308  
Website: [www.gbu.ac.in](http://www.gbu.ac.in)

TENDER DOCUMENT FOR SUPPLY OF LAB EQUIPMENTS/SOFTWARES

GAUTAM BUDDHA UNIVERSITY, GREATER NOIDA – 201308

DATE & TIME FOR SUBMISSION OF TENDER     On or before January 27, 2010 by 1700 HRS

DATE & TIME FOR OPENNING OF TENDER     January 28, 2010 AT 1100HRS

The following details/ documents/ certificates issued by the concerned Authorities in respect of the bidder are required to be submitted:

1.     Name of the Firm/ Agency \_\_\_\_\_
2.     Name of the Proprietor / Partner \_\_\_\_\_
3.     Address of the firm \_\_\_\_\_
4.     Telephone /Fax No. Email ID \_\_\_\_\_
5.     PAN Number (attached photocopy)\_\_\_\_\_
6.     VAT No. (attached photocopy), if applicable\_\_\_\_\_
7.     Copies of ITR for the last 2 year to be attached \_\_\_\_\_
8.     Experience in the line
  - a)    Mention number of year\_\_\_\_\_
  - b)    Attach list of clients where such equipments have been supplied and installed to  
Educational Institutes of repute /IITs/ Central universities along with satisfactory report from  
them.
9.     An authoritative certificate from the manufacturer (Principal Company)
10.    Demand Draft of Earnest money equivalent to 2% of the quoted value shall be deposited in  
favour of Gautam Buddha University payable at Greater Noida.

NOTE:- The quantity required is tentative and the same may be increased / decreased at the sole discretion of the Gautam Buddha University, Greater Noida.

# ENVELOPE 'A'

## TECHNICAL BID FORM

1. The bidder should submit the manufacturer's authoritative certificate along with the technical bid (if applicable).

### List of Instruments

S. N.	Product	Specifications	Brand	Qty.
1.	<b>Micropipettes (single channel)</b>	<ul style="list-style-type: none"> <li>• Separate tip ejector</li> <li>• 4-digit volume display</li> <li>• Extremely smooth piston movement</li> <li>• Calibratable</li> <li>• Lower part autoclavable</li> <li>• Can be used with tips from all well-known manufacturers</li> <li>• Ejector and a new type of volume adjustment. For convenient, rapid volume selection, even single-handed or with gloves.</li> <li>• Pipettes for volume ranges for <u>each set</u>:-               <ul style="list-style-type: none"> <li>0.1ul - 2.5ul</li> <li>0.5ul – 10ul</li> <li>2ul – 20ul</li> <li>10ul – 100ul</li> <li>20ul – 200ul</li> <li>100ul – 1000ul</li> </ul> </li> </ul>	Eppendorf	5 sets
2.	<b>Polymerase Chain Reaction Machine</b>	<ul style="list-style-type: none"> <li>• Universal block with Sample capacity 96 x 0.2 ml PCR tubes or 77 x 0.5 ml PCR tubes or 1 x 96-well PCR plate</li> <li>• Temperature-control range 4 °C to 99 °C</li> <li>• Regulation accuracy per well: ± 0.2 °C</li> <li>• Ramping Rate: approx. 3°C/s (heating) approx. 2°C/s (cooling)</li> </ul>	Eppendorf	04 (four)
3.	<b>Lambda 950 UV/Vis/NIR Spectrophotometer</b>	<ul style="list-style-type: none"> <li>• Proven Optical System with double Beam Spectrometer</li> <li>• Scanning UV/VIS Spectrometer with fixed 01 nm slit</li> <li>• Stray Radiation: 0.01%T at 220nm, 340nm and 370nm (ASTM)</li> <li>• Pre-aligned Deuterium and Tungsten - Halogen lamps</li> <li>• Working wavelength Range: 190 - 1100 nm</li> <li>• Photometric Accuracy: ± 0.003A measured with 930 filters</li> <li>• PC controlled with inbuilt software</li> <li>• The Data acquisition include spectral scanning, time based measurements, multiple wavelength reading and quantitative measurements</li> </ul>	Perkin Elmer	01 (one)
4.	<b>Digital Imaging System</b>	<ul style="list-style-type: none"> <li>• 12-bit Scientific Grade, Zero Defect, 1.3 Megapixel CCD Camera</li> <li>• Flat Field Calibration for uniformity of light</li> </ul>	Alpha Innotech	01 (one)

		<p>acquisition cross the sensor.</p> <ul style="list-style-type: none"> <li>• Darkroom with gel viewing window</li> <li>• Dual wavelength without changing tubes (302 and 365nm), Dual Intensity (Hi/Lo) &amp; EvenScan. Imaging area of atleast 21 x 26 cm</li> <li>• UV to White Light Conversion Screen</li> <li>• UV Transilluminator: Computer (with Intel Pentium Dual Core Processor, 160GB HDD, 1 GB RAM, DVD Writer, 17" Color Monitor, Keyboard, Mouse)</li> <li>• Optical Zoom lens: 8-48 mm (USB connectivity) with Anti-reflective coating &amp; MicroLens</li> <li>• Data acquisition and analysis system</li> </ul>		
5.	<b>Biomedical Freezer</b>	<ul style="list-style-type: none"> <li>• Capacity- 482 liters</li> <li>• Twin external doors (top/bottom)</li> <li>• Cooling performance :-20°C to -40 °C</li> <li>• Atleast 5 drawers with individual freezer circuit for each of the drawers</li> <li>• Front mounted display/control panel located at eye level</li> <li>• Memory backup, temperature display must be present</li> <li>• Baskets: Min. 6 nos. of medium size at Top &amp; atleast 8 nos. of small size at bottom</li> </ul>	Sanyo	01 (one)
6.	<b>2°C-14°C Cold Cabinet</b>	<ul style="list-style-type: none"> <li>• Capacity- 340 liters</li> <li>• Temperature range- 2 degree Celsius to 14 degree Celsius</li> <li>• Fan forced air circulation to ensure stable &amp; uniform preservation environment</li> <li>• Cycle Defrost Function &amp; evaporator temperature detection system to permit defrosting without increasing temperature inside cabinet</li> <li>• 2 sliding glass doors with double paned glass with heat reflective film to block heat/UV rays</li> </ul>	Sanyo	01 (one)
7.	<b>Vertical Autoclave (Small 98 liters)</b>	<ul style="list-style-type: none"> <li>• Stainless steel from inside and outside</li> <li>• Size inside- 550 mm x 750 mm</li> <li>• Capacity- 98 Ltrs</li> <li>• Automatic cut-off device</li> <li>• Pressure between 15 to 22 PSI adjusted with infloss piezostat</li> </ul>	Vista	01 (one)
8.	<b>Vertical Autoclave (Big 187 liters)</b>	<ul style="list-style-type: none"> <li>• Stainless steel from inside and outside</li> <li>• Size inside- 550 mm x 750 mm</li> <li>• Capacity- 187 Ltrs</li> <li>• Automatic cut-off device</li> <li>• Pressure between 15 to 22 PSI adjusted with infloss piezostat</li> </ul>	Vista	01 (one)
9.	<b>Zoom Stereo Microscope</b>	<ul style="list-style-type: none"> <li>• Zoom Stereo Trinocular head &amp; eyepieces</li> <li>• In-built 0.5x C-mount video camera adapter</li> <li>• C-mount camera attachment with 45 degrees inclination</li> <li>• Microscope body with 0.67-4.5X zoom optics</li> <li>• Eyepiece 10X with ESD capability, F.N. 22, focusable</li> <li>• Black and white reversible stage plate with ESD capability on black</li> </ul>	Olympus	02 (one)

		<ul style="list-style-type: none"> <li>OPTIONAL ACCESSORIES: <ul style="list-style-type: none"> <li>Auxillary Objective 110AL1.5X / 2X (for SZ51/61series)</li> <li>Eyepieces (paired)WHSZ15X-H / 20X-H (for SZ51/61 series)</li> <li>Transmitted illumination attachment SZ2-ILA-LSGA (6v 15w)</li> <li>6V15WHAL halogen bulb (with reflector) (for LSGA illuminator)</li> </ul> </li> </ul>		
10.	Pipettman	<p>Each Set: 1000ul, 200ul, 100ul, 20ul, 2ul</p> <ul style="list-style-type: none"> <li>Volume range-200-1000;Increment-5ul</li> <li>Volume range-20-200; Increment 1ul</li> <li>Volume range-10-100; Increment 1ul</li> <li>Volume range-2-20-; Increment 0.5ul</li> <li>Volume range-0.1-2.5ul; Increment 0.05ul</li> </ul>	Genepette	5 set
11.	Mini Horizontal Electrophoresis Unit with single power supply	<ul style="list-style-type: none"> <li>Unit with the Buffer chamber, lid with cables, gel running tray, gel casting tray, 4 foam gaskets, bubble level, 1.5 mm thick 8-well comb and comb back.</li> <li>Max. voltage 500 V for 5 minutes or less</li> <li>Max. wattage 15 W</li> <li>Max. current 500 mA</li> <li>Max. operating temp. 50 °C</li> <li>Max. buffer volume 250 ml</li> <li>Gel dimension 7x10cm</li> <li>Power setting 500V</li> <li>Power supply- PS300B, 300V</li> </ul>	Hoefler	06 (six)
12.	Max Horizontal Electrophoresis Unit with single power supply	<ul style="list-style-type: none"> <li>Buffer chamber with electrodes and leveling feet, safety lid with leads, bubble level, 15 x 20 cm gel casting kit (casting tray and running tray), 15-well comb 1.5 mm thick and comb back.</li> <li>Max. voltage 200 V</li> <li>Max. wattage 20 W</li> <li>Max. amperage 100 mA</li> <li>Max. operating temp. 45 °C</li> <li>Max. buffer volume 1.2 liters</li> <li>Gel dimension 15x20cm</li> <li>Power setting 200V</li> <li>Power supply- PS300B, 300V with red LED and 90 W maximum with Timer 1 – 999 min, 1 min increment</li> </ul>	Hoefler	03 (three)
13.	Circulation water bath	<ul style="list-style-type: none"> <li>Temperature control -20 to +100 degree Celsius; resolution 0.1 degree celsius</li> <li>Cooling capacity of 200W to 20 degree Celsius</li> <li>Delivers heat with 1000W</li> <li>15 liter circulation pump</li> <li>Weight- 22Kg,</li> <li>Unit dimensions= 20x56x36</li> </ul>	Hoefler	01 (one)
14.	Floor model stackable Environmental Shaker (with in-built refrigeration)	<ul style="list-style-type: none"> <li>Heavy Duty Stackable Environmental Shaker with a rugged magnetic drive on permanent magnets</li> <li>No Motor/ Belt or Any other moving parts with a facility of variable throw diameters of 12.5 mm / 25 mm / 50 mm / 70 mm on the same machine</li> </ul>	Kuhuner	01 (one)

		<ul style="list-style-type: none"> <li>• Speed Range: 20 – 500 rpm with an accuracy of <math>\pm 0.1</math> rpm</li> <li>• Temperature range: 15° C below ambient to 80° C ; accuracy : <math>\pm 0.1^\circ</math> C.</li> <li>• Capacity : Around 40 flasks of 250 ml / 20 –25 flasks of 500 ml</li> <li>• Every shaker on the stacked units must be capable of running at maximum rpm of 500.</li> <li>• Clamps to be offered for 100ml,250ml, 500ml and 1 Litres</li> </ul>		
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#### List of Software

S.No.	SOFTWARE	NUMBER OF LICENSES REQUIRED	SPECIFIC FEATURES
1.	<b>Schrodinger Suite of Software</b>  Modules:  <b>A. Essential modules</b> <ol style="list-style-type: none"> <li>1. Impact</li> <li>2. Liaison</li> <li>3. Jaguar</li> <li>4. pKa Predictor</li> <li>5. MacroModel</li> <li>6. Epik</li> <li>7. QikProp</li> <li>8. SiteMap</li> <li>9. Strike</li> <li>10. ConfGen</li> <li>11. MINTA</li> <li>12. LigPrep</li> <li>13. Protein Prep</li> <li>14. Virtual Screening work flow</li> </ol> <b>B. Premium Modules</b> <ol style="list-style-type: none"> <li>1. Glide</li> <li>2. Prime</li> <li>3. Phase</li> <li>4. CombiGlide</li> </ol>	30 token licenses	Molecular modeling software having following features: <ul style="list-style-type: none"> <li>• Conformation generation and clustering</li> <li>• Property generation and filtering</li> <li>• Molecular Mechanics</li> <li>• 3D-structure generation</li> <li>• Protein modeling</li> <li>• Quantum mechanical calculations</li> <li>• Pharmacophore generation</li> <li>• Induced fit docking</li> <li>• Flexible docking</li> <li>• 3D-QSAR</li> <li>• Active site identification</li> <li>• Calculation of physicochemical properties</li> </ul>
2.	<b>EXOME-ED</b>	30 licenses	<ul style="list-style-type: none"> <li>• Educational software for biological sequence analysis</li> </ul>
3.	<b>EXOME BLAST</b>	05 licenses	<ul style="list-style-type: none"> <li>• Customized Blast Tool</li> <li>• Iterative Blast</li> <li>• Comparative Blast</li> <li>• Database building</li> <li>• Graphical representation</li> </ul>

4.	<b>CLC-GENOME WORK BENCH</b>	15 licenses	<ul style="list-style-type: none"> <li>Complete Genome analysis and visualization (DNA, RNA and proteins)</li> </ul>
5.	<b>CLC Science Server (Standard Edition)</b>	01 license	<ul style="list-style-type: none"> <li>Server software for CLC-Genomics WorkBench</li> </ul>
6.	<b>AMBER (Amber 10 and Amber tolls 1.2)</b>	The Academic license	<ul style="list-style-type: none"> <li>Simulations</li> </ul>
7.	<b>GRAPHPAD PRISM 5</b>	30 (Network licenses for Windows)	<ul style="list-style-type: none"> <li>Biostatistics software</li> </ul>

#### TERM AND CONDITIONS FOR THE SUPPLY OF LABORATORY EQUIPMENTS/SOFTWARES

1. Earnest money equivalent to 2% of the quoted shall be deposited through Bank draft in favour of Gautam Buddha University payable at Greater Noida and Draft shall be attached with tender.
2. The quantities of any item mentioned in the tender form are fixed.
3. Items quoted by the firms should be strictly as per specifications.
4. The supplies shall be executed immediately (within two weeks) on receipt of supply/purchase order.
5. The G.B.U. will have the right to reject any or all the bids without assigning any reason.
6. Bids received without earnest money, conditional or incomplete having cutting or overwriting is liable to be rejected.
7. The supplies received, if not found as per specification of tendered items, are liable to be rejected.
8. In case the suppliers fails in making the supply in a given time, the University shall have the right to purchase the same from the other source at the risk and cost of supplier and earnest money will be forfeited.
9. The Gautam Buddh University, Greater Noida have the right of awarding the work to one supplier or different suppliers for the supply of equipments.
10. In case any dispute arises in regard to the tender, the decision of the Gautam Buddh University, Greater Noida will be final binding.
11. The technical bid of the bidders will be opened first and the financial bid will be opened only of the bidders whose technical bid shall be accepted.

## ENVELOPE 'B'

### FINANCIAL BID FORM

1. Name of the Company:

2. Address of the Company:

I/we hereby submit my/our competitive quotation or rates (inclusive of all taxes and handling charges) for supply of undermention quoted laboratory equipments/software by the manufacturer for Gautam Buddha University, Greater Noida.

List of Instruments:

S. N.	Product	Specifications	Brand	Qty.	Rates quoted <u>per unit</u> inclusive all taxes for GBU	Total cost (in Rupees)
1.	<b>Micropipettes (single channel)</b>	<ul style="list-style-type: none"> <li>• Separate tip ejector</li> <li>• 4-digit volume display</li> <li>• Extremely smooth piston movement</li> <li>• Calibratable</li> <li>• Lower part autoclavable</li> <li>• Can be used with tips from all well-known manufacturers</li> <li>• Ejector and a new type of volume adjustment. For convenient, rapid volume selection, even single-handed or with gloves.</li> <li>• Pipettes for volume ranges for <u>each set</u>:-               <ul style="list-style-type: none"> <li>0.1ul - 2.5ul</li> <li>0.5ul – 10ul</li> <li>2ul – 20ul</li> <li>10ul – 100ul</li> <li>20ul – 200ul</li> <li>100ul – 1000ul</li> </ul> </li> </ul>	Eppendorf	5 sets		
2.	<b>Polymerase Chain Reaction Machine</b>	<ul style="list-style-type: none"> <li>• Universal block with Sample capacity 96 x 0.2 ml PCR tubes or 77 x 0.5 ml PCR tubes or 1 x 96-well PCR plate</li> <li>• Temperature-control range 4 °C to 99 °C</li> <li>• Regulation accuracy per well: <math>\pm 0.2</math> °C</li> <li>• Ramping Rate: approx. 3°C/s (heating) approx. 2°C/s (cooling)</li> </ul>	Eppendorf	04		
3.	<b>Lambda 950 UV/Vis/NIR Spectrophotometer</b>	<ul style="list-style-type: none"> <li>• Proven Optical System with double Beam Spectrometer</li> <li>• Scanning UV/VIS Spectrometer with fixed 01 nm slit</li> <li>• Stray Radiation: 0.01%T at 220nm, 340nm and 370nm (ASTM)</li> </ul>	Perkin Elmer	01		



		<ul style="list-style-type: none"> <li>• Pre-aligned Deuterium and Tungsten - Halogen lamps</li> <li>• Working wavelength Range: 190 - 1100 nm</li> <li>• Photometric Accuracy: <math>\pm 0.003A</math> measured with 930 filters</li> <li>• PC controlled with inbuilt software</li> <li>• The Data acquisition include spectral scanning, time based measurements, multiple wavelength reading and quantitative measurements</li> </ul>				
4.	<b>Digital Imaging System</b>	<ul style="list-style-type: none"> <li>• 12-bit Scientific Grade, Zero Defect, 1.3 Megapixel CCD Camera</li> <li>• Flat Field Calibration for uniformity of light acquisition cross the sensor.</li> <li>• Darkroom with gel viewing window</li> <li>• Dual wavelength without changing tubes (302 and 365nm), Dual Intensity (Hi/Lo) &amp; EvenScan. Imaging area of atleast 21 x 26 cm</li> <li>• UV to White Light Conversion Screen</li> <li>• UV Transilluminator: Computer (with Intel Pentium Dual Core Processor, 160GB HDD, 1 GB RAM, DVD Writer, 17" Color Monitor, Keyboard, Mouse)</li> <li>• Optical Zoom lens: 8-48 mm (USB connectivity) with Anti-reflective coating &amp; MicroLens</li> <li>• Data acquisition and analysis system</li> </ul>	Alpha Innotech	01		
5.	<b>Biomedical Freezer</b>	<ul style="list-style-type: none"> <li>• Capacity- 482 liters</li> <li>• Twin external doors (top/bottom)</li> <li>• Cooling performance :-20°C to -40 °C</li> <li>• Atleast 5 drawers with individual freezer circuit for each of the drawers</li> <li>• Front mounted display/control panel located at eye level</li> <li>• Memory backup, temperature display must be present</li> <li>• Baskets: Min. 6 nos. of medium size at Top &amp; atleast 8 nos. of small size at bottom</li> </ul>	Sanyo	01		
6.	<b>2°C-14°C Cold Cabinet</b>	<ul style="list-style-type: none"> <li>• Capacity- 340 liters</li> <li>• Temperature range- 2 degree Celsius to 14 degree Celsius</li> <li>• Fan forced air circulation to ensure stable &amp; uniform preservation environment</li> <li>• Cycle Defrost Function &amp; evaporator temperature detection system to permit defrosting without increasing temperature inside cabinet</li> <li>• 2 sliding glass doors with double paned glass with heat reflective film to block</li> </ul>	Sanyo	01		

		heat/UV rays				
7.	<b>Vertical Autoclave (Small 98 liters)</b>	<ul style="list-style-type: none"> <li>Stainless steel from inside and outside</li> <li>Size inside- 550 mm x 750 mm</li> <li>Capacity- 98 Ltrs</li> <li>Automatic cut-off device</li> <li>Pressure between 15 to 22 PSI adjusted with indfoss piezostat</li> </ul>	Vista	01		
8.	<b>Vertical Autoclave (Big 187 liters)</b>	<ul style="list-style-type: none"> <li>Stainless steel from inside and outside</li> <li>Size inside- 550 mm x 750 mm</li> <li>Capacity- 187 Ltrs</li> <li>Automatic cut-off device</li> <li>Pressure between 15 to 22 PSI adjusted with indfoss piezostat</li> </ul>	Vista	01		
9.	<b>Zoom Stereo Microscope</b>	<ul style="list-style-type: none"> <li>Zoom Stereo Trinocular head &amp; eyepieces</li> <li>In-built 0.5x C-mount video camera adapter</li> <li>C-mount camera attachment with 45 degrees inclination</li> <li>Microscope body with 0.67-4.5X zoom optics</li> <li>Eyepiece 10X with ESD capability, F.N. 22, focusable</li> <li>Black and white reversible stage plate with ESD capability on black</li> <li>OPTIONAL ACCESSORIES: Auxillary Objective 110AL1.5X / 2X; Transmitted illumination attachment (6v 15w); 6V15WHAL halogen bulb (with reflector) (for LSGA illuminator)</li> </ul>	Olympus	02		
10.	<b>Pipettman</b>	<p>Each Set: 1000ul, 200ul, 100ul, 20ul, 2ul</p> <ul style="list-style-type: none"> <li>Volume range-200-1000; Increment-5ul</li> <li>Volume range-20-200; Increment 1ul</li> <li>Volume range-10-100; Increment 1ul</li> <li>Volume range-2-20-; Increment 0.5ul</li> <li>Volume range-0.1-2.5ul; Increment 0.05ul</li> </ul>	Genepette	5 set		
11.	<b>Mini Horizontal Electrophoresis Unit with single power supply</b>	<ul style="list-style-type: none"> <li>Unit with the Buffer chamber, lid with cables, gel running tray, gel casting tray, 4 foam gaskets, bubble level, 1.5 mm thick 8-well comb and comb back.</li> <li>Max. voltage 500 V for 5 minutes or less</li> <li>Max. wattage 15 W</li> <li>Max. current 500 mA</li> <li>Max. operating temp. 50 °C</li> <li>Max. buffer volume 250 ml</li> <li>Gel dimension 7x10cm</li> <li>Power setting 500V</li> <li>Power supply- PS300B, 300V</li> </ul>	Hoefer	06		

12.	<b>Max Horizontal Electrophoresis Unit with single power supply</b>	<ul style="list-style-type: none"> <li>• Buffer chamber with electrodes and leveling feet, safety lid with leads, bubble level, 15 x 20 cm gel casting kit (casting tray and running tray), 15-well comb 1.5 mm thick and comb back.</li> <li>• Max. voltage 200 V</li> <li>• Max. wattage 20 W</li> <li>• Max. amperage 100 mA</li> <li>• Max. operating temp. 45 °C</li> <li>• Max. buffer volume 1.2 liters</li> <li>• Gel dimension 15x20cm</li> <li>• Power setting 200V</li> <li>• Power supply- PS300B, 300V with red LED and 90 W maximum with Timer 1 – 999 min, 1 min increment</li> </ul>	Hoefer	03		
13.	<b>Circulation water bath</b>	<ul style="list-style-type: none"> <li>• Temperature control -20 to +100 degree Celsius; resolution 0.1 degree celsius</li> <li>• Cooling capacity of 200W to 20 degree Celsius</li> <li>• Delivers heat with 1000W</li> <li>• 15 liter circulation pump</li> <li>• Weight- 22Kg,</li> <li>• Unit dimensions= 20x56x36</li> </ul>	Hoefer	01		
14.	<b>Floor model stackable Environmental Shaker (with in-built refrigeration)</b>	<ul style="list-style-type: none"> <li>• Heavy Duty Stackable Environmental Shaker with a rugged magnetic drive on permanent magnets</li> <li>• No Motor/ Belt or Any other moving parts with a facility of variable throw diameters of 12.5 mm / 25 mm / 50 mm / 70 mm on the same machine</li> <li>• Speed Range: 20 – 500 rpm with an accuracy of <math>\pm 0.1</math> rpm</li> <li>• Temperature range: 15° C below ambient to 80° C ; accuracy : <math>\pm 0.1^{\circ}</math> C.</li> <li>• Capacity :Around 40 flasks of 250 ml / 20 –25 flasks of 500 ml</li> <li>• Every shaker on the stacked units must be capable of running at maximum rpm of 500.</li> <li>• Clamps to be offered for 100ml,250ml, 500ml and 1 Litres</li> </ul>	Kuhner	01		

### List of Software

S.No.	SOFTWARE	Number of licenses required	SPECIFIC FEATURES	Rates quoted per unit inclusive all taxes for GBU	Total cost (in Rupees)
1.	<b>Schrodinger Suite of Software</b>  Modules:  <b>A. Essential modules</b> 1. Impact 2. Liaison 3. Jaguar 4. pKa Predictor 5. MacroModel 6. Epik 7. QikProp 8. SiteMap 9. Strike 10. ConfGen 11. MINTA 12. LigPrep 13. Protein Prep 14. Virtual Screening work flow  <b>B. Premium Modules</b> 1. Glide 2. Prime 3. Phase 4. CombiGlide	30 token licenses	Molecular modeling software having following features: <ul style="list-style-type: none"> <li>• Conformation generation and clustering</li> <li>• Property generation and filtering</li> <li>• Molecular Mechanics</li> <li>• 3D-structure generation</li> <li>• Protein modeling</li> <li>• Quantum mechanical calculations</li> <li>• Pharmacophore generation</li> <li>• Induced fit docking</li> <li>• Flexible docking</li> <li>• 3D-QSAR</li> <li>• Active site identification</li> <li>• Calculation of physicochemical properties</li> </ul>		
2.	<b>EXOME-ED</b>	30 licenses	<ul style="list-style-type: none"> <li>• Educational software for biological sequence analysis</li> </ul>		
3.	<b>EXOME BLAST</b>	05 licenses	<ul style="list-style-type: none"> <li>• Customised Blast Tool</li> <li>• Iterative Blast</li> <li>• Comparative Blast</li> <li>• Database building</li> <li>• Graphical representation</li> </ul>		

4.	<b>CLC-GENOME WORK BENCH</b>	15 licenses	<ul style="list-style-type: none"> <li>• Complete Genome analysis and visualization (DNA, RNA and proteins)</li> </ul>		
5.	<b>CLC Science Server (Standard Edition)</b>	01 license	<ul style="list-style-type: none"> <li>• Server software for CLC-Genomics WorkBench</li> </ul>		
6.	<b>AMBER (Amber 10 and Amber tolls 1.2)</b>	The Academic license	<ul style="list-style-type: none"> <li>• Simulations</li> </ul>		
7.	<b>GRAPHPAD PRISM 5</b>	30 (Network licenses for Windows)	<ul style="list-style-type: none"> <li>• Biostatistics software</li> </ul>		

## DECLARATION

1. The rates quoted are inclusive of all taxes, packing, handling and installation charges.
2. The information given in the financial bid by the undersigned is correct.

(SIGNATURE OF THE BIDDER)  
WITH SEAL

NAME , ADDRESS\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone/Mobile No. \_\_\_\_\_

Note: The financial bid is required to be submitted separately in a sealed cover superscripted as 'Laboratory equipment/software for School of Biotechnology'.