

झारखण्ड केन्द्रीय विश्वविद्यालय, राँची
CENTRAL UNIVERSITY OF JHARKHAND, RANCHI
(संसदीय अधिनियम के तहत 2009 में स्थापित केन्द्रीय विश्वविद्यालय)
(A Central University established by an Act of Parliament in 2009)

Ref no. CUJ/ P&S/CLS/DBT-Builder/2015/57

Dated: 04th March 2016

Sealed quotations are invited for the article enclosed in the separate sheet (Annexure-I) subject to the terms and conditions given below:

The quotation should be addressed to the Principal Investigator, DBT BUILDER project, Centre for Life Science, Central University of Jharkhand, Ratu- Lohardaga Road, Brambe, Ranchi, 835205 and should reach on or before 11 April 2016 Technical bid will be opened on 18 April 2016 at 10:30 pm.

TERMS AND CONDITIONS

1. Quotations without any erasures and overwriting must be submitted in sealed cover addressed to the **Principal Investigator**, DBT BUILDER project, Centre for Life Science, Central University of Jharkhand, Ratu- Lohardaga Road, Brambe, Ranchi- 835 205 super-scribed Tender/ Enquiry No. and the due date failing which, quotation may be ignored. Tender/ quotation should be sent through Post/ Courier/ By Hand.
2. The rate quoted should be inclusive of all packing, forwarding, sales tax, freight and insurance charges and should remain valid for our acceptance for minimum period of three months from the due date of opening of the quotations. The quotation should be CUJ consignee's site basis i.e. Central University of Jharkhand, Ratu- Lohardaga Road, Brambe, Ranchi.
3. Manufacturer's name of company of origin of materials offered must be clearly specified. Complete details of illustrated literatures/ or drawings, in original (not photocopies), if any must accompany all quotations.
4. The University will not entertain requests for revision in prices once quoted for whatever reason after the tenders are opened during the period of contract.
5. All goods must be delivered at our university at Ratu- Lohardaga Road, Brambe, Ranchi for inspection by our inspecting authority.
6. Full payment will be made within 30 days of the receipt and acceptance after inspection of supplies at destination, quotations containing different payment terms are liable to be ignored.
7. All goods must be delivered at our university at Ratu- Lohardaga road, Brambe, Ranchi (Stores & Purchase Section) free of cost after confirmed order. The University will provide DSIR certificate, Educational Certificate if necessary, The University will not be responsible for issuing any road permit.
8. Only Manufacturer/ Authorized dealer/ firms of repute dealing in the items listed in the quotation having experience in sale and repair/ maintenance, need apply. In case of dealer, tender specific Authorization in original from the manufacturer should be attached with the Technical Bid. In case of Item is proprietary in nature a certificate should be attached with tender documents.
9. Foreign Manufacturers should participate either directly or through their Indian subsidiary/ authorized dealers and should have their own technical support/ service support for better after sales service. The bid in such condition should have all relevant certificates which is necessary by Government financial rule 2005 and modifications mutatis mutandis.
10. All the vendors must provide a certificate mentioning their items qualify the given specification, else their item will not qualify for procurement or even rejected after procurement.
11. Only latest models of items need to be quoted.
12. It should be mentioned specifically whether price quoted includes all taxes and duties. Sales tax and/ or other duties legally liable and intended to be claimed should be distinctly shown in the tender.

13. VAT/CST Registration Number and its validity should be indicated. Documentary evidences be supplied/ attached to the tender documents.
14. All rates shall be indicated both in words and figures. Where there is difference between the rates quoted in words and figures, rate quoted in words will prevail.
15. The supplier shall make delivery of the items within 30 days from the placement of the purchase order. The purchase order would be placed after assessing the requirement and hence, actual quantity may increase/ decrease.
16. The Tender Document for items will be Two- Bid system consisting of Technical Bid and Price Bid. The Tender Document will be submitted item-wise in two separate sealed covers clearly mentioning on the envelope the details of items for which Bid is submitted.
17. The Bidder must enclose point wise compliance of the technical specifications of each item.
18. The price of Tender Document is Rs. 1000/- only (One Thousand rupees only) (non- refundable). The Tender Document price may be attached to the Technical Bid in the form of Bank Draft in favour of "Central University of Jharkhand" payable at Ranchi.
19. The Tender Documents comprising of Price Bid, Technical Bid and **Earnest Money Deposit** which is given in front of each item (**refundable**) in the form of Bank Draft in favour of "Central University of Jharkhand" payable at Ranchi kept in the separate envelope super- scribed with the name of the same. The Tender Document must be enclosed with Earnest Money Deposit otherwise the tender document will be rejected. All the documents must be enclosed in a bigger size envelope super- scribed with the tender number and item name.
20. Manufacturers/ Authorized suppliers having ISO 9001 and ISO 14001 certification are preferred.
21. All legal disputes shall be under the jurisdiction of Jharkhand High court, Ranchi.
22. The University reserves the right to accept or reject any Bid, without assigning any reason thereof. No correspondence in this regard will be entertained.
23. All the participating firms should attach supporting documents in favour of:
 - (a) Having at least 3 years of experience in the field.
 - (b) Be registered with Directorate of Industries or Small Scale Industries or any other appropriate authorities.
 - (c) Have valid TIN Number for registration under VAT/CST
 - (d) Have PAN for Income Tax. Supporting documents for Income Tax return for the last Two years (i.e 2011-12, 2012-13).
 - (e) Documents as proof in respect of Technical bid along with supporting documents.
 - (f) Profile and Track Record of the agency. (3 years)
 - (g) Copy of signed Balance Sheets of last three years.
 - (h) Three years' warranty period is preferred.
 - (i) Detailed terms and condition regarding performance/ warranty/ Bank guarantee/ inspection/ LD/ Penalty for delayed supplied will be elaborated in our purchase order.
 - (j) For proprietary items/ single manufacturers or Government manufacturers, proper certification in original is to be attached along with the Technical Bid.
24. Details specification of the equipment annexed as Annexure-I.
25. For any queries you may contact our University web site www.cuj.ac.in.


26. Any firm quoting on behalf of foreign manufacturers / companies must be enlisted with the DC, S&D.



**Principal Investigator,
DBT- CUJ BUILDER
programme**

DETAILS OF ARTICLE

Support to establish DBT-Boost to Central University of Jharkhand Interdisciplinary Life Science Departments for Education and Research (BUILDER) programme			
Sl. No.	Description of the Item with specification	Quantity	EMD in Rupees (Refundable)
1)	<p>pH meter</p> <ul style="list-style-type: none"> • Measuring range: pH 0 to 14.00 • Resolution pH 0.01 • Error Limit: pH+0.01 pH • LCD display • 100-240V/50-60Hz 	8	1500
2)	<p>Balance 0.1mg sensitivity</p> <ul style="list-style-type: none"> • Maximum capacity 220gm • Readability 0.1 mg • Repeatability 0.1mg • Linearity: ± 0.2mg • Pan Size 90mm • Backlight display • Interface for printer/computer 	3	3000
3)	<p>Dry Bath</p> <ul style="list-style-type: none"> • With heating block • built in temperature accuracy and control • Temperature range: RT to 95 Deg Cel • Can accommodate test tubes, square cuvettes, Microcentrifuge tubes, conical bottom centrifuge tubes. 	5	3000
4)	<p>Wet Bath 5L</p> <ul style="list-style-type: none"> • Capacity 5L, • Digital, Temperature range ambient +5°C to 100°C operation, • Temperature stability ± 0.1°C • Temperature uniformity ± 0.2°C, high temperature cut off • Power 240 VAC, 50 Hz 	3	4000
5)	<p>Micropipette (teaching)</p> <ul style="list-style-type: none"> • Should have high resistance to chemicals, • Stainless steel piston and PVDF Handle; • Air-tight seal with grease-free technology, tip-ejector should be there, fit to wide varieties tips, the piston assembly can be easily open for cleaning purposes can be easily calibrated. • Should be used for Molecular biology work like PCR/ small-volume dispensing of aqueous fluids of moderate viscosity and density 	5 sets	3000

	<ul style="list-style-type: none"> • Range (0-2μl, 1-10μl, 2-20μl, 20-100μl, and 200-1000μl) 		
6)	Steripipette <ul style="list-style-type: none"> • Lightweight • Operated by electricity and battery. • Separate press button for release and suction •  	2	1000
7)	Fridge <ul style="list-style-type: none"> • Refrigerator type: top freeze refrigerator • Capacity: 325-350L • Number of door: 2 • Star rating: minimum 4 • Defrost type: automatic • Interior light: yes • Power: 140-260V • Stabilizer free: yes • Warranty: at least one year in freeze and 10 years in compressor 	3	2500
8)	Vortex <ul style="list-style-type: none"> • With speed control and on off switch 	5	1200
9)	Stereomicroscope for students <ul style="list-style-type: none"> • microscope with paired eyepiece 10x(F.N.23), • Built in light stand, • Incident Light: 15W lamp, • Transmitted light : 5W fluorescence lamp • 2x and 4x in built objectives. 	4	2500
10)	Hand held UV lamp <ul style="list-style-type: none"> • Portable • Light weight • Provides UV light with wavelength of 365nm and 254nm and a combination of both • UV window size: 150-50 mm 	1	800
11)	Mini Submarine horizontal <ul style="list-style-type: none"> • . Good quality Horizontal Electrophoresis System for nucleic acid separations • Can run up to 20 samples simultaneously • Should be supplied with the gel caster for hand casting gels in the tray. • QuickSnap Electrodes- easy to remove and for cleaning. • Accessories should be supplied including comb (8 and 15 well combs • Buffer Tank volume~300 ml and UV transparent Trey. Cell size ~(W <15cm x L<30cm x H<7cm);. Gel tray sizes (OD) (W<10cm x L<10cm) 	10	2700

12)	Midi submarine horizontal <ul style="list-style-type: none"> • Good quality Horizontal Electrophoresis System for nucleic acid separations • Can run up to ~40 samples simultaneously • Should be supplied with the gel caster for hand casting gels in the tray. • QuickSnap Electrodes- easy to remove and for cleaning. • Includes gel caster for tape-free casting, • Accessories should be supplied including comb (~15 well combs), Buffer Tank and UV transparent Trey. Cell size ~(W <20cm x L<30cm x H<10cm); Base buffer volume~700 ml. Gel tray sizes (~W<20cm x L<10cm) 	5	1750
13)	Mini vertical <ul style="list-style-type: none"> • Vertical mini gel electrophoresis unit • Two casting stands and 4 casting frames • Four set of Glass plates for 1mm thick gel with four 10 well combs • Rapid, high-quality blotting of two gels. • Accessories should be supplied including comb (~15 well combs), Cell size ~(W <15cm x L<20cm x H<20cm); Base buffer volume~500 ml. Gel tray sizes (~W<20cm x L<10cm) 	10	4000
14)	Midi vertical <ul style="list-style-type: none"> • Vertical midi gel electrophoresis unit • Two casting stands and 4 casting frames • Four set of Glass plates for 1.5mm thick gel with four 15 well combs • Accessories should be supplied including comb (~15 well combs), Cell size ~(W <15cm x L<20cm x H<20cm); Base buffer volume~500 ml. Gel tray sizes (~W<20cm x L<10cm) . 	1	500
15)	Spectrophotometer <ul style="list-style-type: none"> • PC Based, Automatic source optimisation & base line correction, • Range of reading 200 – 1000 nm, • 2 nm Bandwidth, %T, Abs, Conc. (K factor, Multi standard up to 5) measuring modes, • Single Wavelength, Multi Wavelength, Scan (with multi scan facility), • Time Scan operating modes, • Automatic 5 position sample changer, Single Position 50/100 mm Cuvette Holder (Optional) 	2	5000.00
16)	Projector <ul style="list-style-type: none"> ▪ Connectivity: PC Less Presentation ▪ Should have Wire-Less connectivity: Built-in Wi-Fi ▪ Should have Intel Wireless Display ▪ Should have USB Host for DivX, HD DivX, MP3, Photo, Video etc. ▪ Should have Miracast. ▪ Audio: Built-in Speakers 5 W or higher ▪ Life of Lamp: Up to 5000 Hrs. Or above ▪ Lamp (Type): 230W Bulb or Better 	2	3200

	<ul style="list-style-type: none"> ▪ Projection System:3 LCD or better ▪ Technology: VID1 ▪ Native resolution: XGA (1024 x 768) or Better ▪ Contrast (FOFO): 5000:1 Or Better ▪ Brightness (ANSI): Up to 4000 Lumens Or Better ▪ Uniformity: JBMMA 9 Point Or better ▪ Digital Keystone Correction: 4 corner Keystone or better ▪ Projection Lens provided with Focus and Zoom ▪ Projection Image Standard: 100"@2.97m or Better ▪ Screen Size: 30"~300" or Better ▪ Zoom: 1.2x Or Better ▪ Aspect Ratio: 4:3 and 16:9 ▪ Light and Portable: Projector Dimension-14.01" x 3.62" x 9.68"; Weight-8 to 9 lbs; ▪ Accessories: D-sub 15 and Remote control ▪ Powers: ▪ Power Supply: AC 100-240 V' 50/60 Hz ▪ Power Consumption: 330 W or Less ▪ Standby mode: 0.5 W or Less ▪ Input/output Terminals: ▪ RGB In:02 ▪ RGB (PC) Audio In: 02 (3.5 mm) ▪ RGB out: 01 ▪ Composite (AV) In: 01 (RCA, L/R) ▪ Component (Y, Pb, Pr) : 01 (RGB to component) ▪ Audio Out: 01 (3.5 mm) ▪ RS-232C: 01 (Service/Control) ▪ RJ45: 01 ▪ HDMI: 01 ▪ USB (Service): 01 		
17)	<p>Magnetic stirrer</p> <ul style="list-style-type: none"> • Top Plate dimension: 10x10 (cm) • Top Plate Material: Ceramic • Speed: 100-1000 rpm or Better • Capacity: 1 L or Higher • Overall Dimension: 12x11x13 (cm). 	6	1200
18)	<p>Minus 20 deg C</p> <ul style="list-style-type: none"> • Capacity: 650 Ltrs. Or Higher • Dimension: Vertical • Temperature: -16°C ~ 22°C or Better • Tropicalized to perform at 43°C Ambient • CFC free refrigerant • Auto defrosting and auto evaporation of condensation water. • Insulation: 60 mm thickness or better for better energy efficiency. • Self-closing door. 	1	3200

	<ul style="list-style-type: none"> • Removable Magnetic Gasket. • EMBRACO compressor Or better • Digital controller. • EBM Fan Motor Or Better • SS 304 Food Grade Steel Inside & Outside • Heavy duty castor • Provided with Lock 		
19)	Vacuum pump <ul style="list-style-type: none"> • piston powered & oil free vacuum pump. • have a moisture trap/vacuum regulator. • Maximum power 80W • Max. vacuum: -650MM/Hg • Minimum horse power 1/6 HP • Net weight <6 kg • Noise level < 60db 	1	1200
20)	Autoclave 50 L <ul style="list-style-type: none"> • Capacity-50 L • Outer made of mild steel, inside and lid made of stainless steel. Diameter x depth 355x550 mm. • Fitted with automatic cutoff device for element for general safety and also fitted with indfoss piezostat. • Means of saturated stem under pressure of 15 to 22 PSI (adjustable). 	1	4000
21)	Autoclave 98L <ul style="list-style-type: none"> • Capacity 98 litres • Outer made of mild steel, inside and lid made of stainless steel. Diameter x depth 450x600 mm • Fitted with automatic cutoff device for element for general safety and also fitted with indfoss piezostat. • Means of saturated stem under pressure of 15 to 22 PSI (adjustable). 	1	4500
22)	Microfuge <ul style="list-style-type: none"> • Standard 6 place rotor for 1.5 ml tubes • RPM range 1000 to 10,000 • Digital display of time and RPM 	2	1200
23)	Rotary mixer <ul style="list-style-type: none"> • Speed: 5-50 RPM • Timer Set: 0-99 Hrs/1-59 min • Rotating Bar: to hold 50 tubes of 1.5 ml- Nos-2; to hold 20 tubes of 15 ml- Nos-2 • Plastic Coated Spring clips • Exchange of Rotating Bars: Quick and Easy coupling 	1	1800
24)	Rocker <ul style="list-style-type: none"> • Speed: 10- 50 RPM or Better • Timer: 99 Hrs 99 mins • Dimension of Plateform: 30 cm x30 cm • Overall Dimension: 30 wide x 30 cm Depth x 20 cm 	5	3200

	<p>Height</p> <ul style="list-style-type: none"> • Load capacity: 10 kg or Better • Drive: Powerful DC, noise-free smooth operation. 		
25)	<p>Camera with software</p> <ul style="list-style-type: none"> • 5 Megapixel CMOS Camera • Image Sensor: 5.01 Megapixel • Sensor Size: ½.5 inch • Pixel Size: 2.2X2.2 μ • Resolution: 2592X1944 • Frame rate: 5@2592X1944 • Dynamic Range: 66.5db • S/N ratio :40.5db • Binni : 2X2,4X4 • Camera Adopter:0.5X,Adjustable C-Mount standard • Interface Connector: USB 2.0 high-speed interface • Software: Image capture and analysis software 	1	1500
26)	<p>Micropipette for research</p> <ul style="list-style-type: none"> • Should have high resistance to chemicals, • Stainless steel piston and PVDF Handle; • Air-tight seal with grease-free technology, tip-ejector should be there, fit to wide varieties tips, the piston assembly can be easily open for cleaning purposes can be easily calibrated. • Should be used for Molecular biology work like PCR/ small-volume dispensing of aqueous fluids of moderate viscosity and density. Range (0-2μl), (1-10μl; Maximum error <0.05μL in Max vol pipeting), (2-20μl, Maximum error <0.07μL in Max vol pipeting), (20-100μl, Maximum error <0.2μL in Max vol pipeting) and (200-1000μl, Maximum error <2μL in Max vol pipeting) 	5sets	6500
27)	<p>Transmitted light attachment with polarizer and analyser for existing SZX7 olympus microscope</p> <ul style="list-style-type: none"> • Transmitted light illumination • Halogen bulb suitable for the base • Polarizer attachment • Analyzer attachment 	1	1500
28)	<p>Power pack</p> <ul style="list-style-type: none"> • Suitable for submarine and mini and midi vertical electrophoresis unit. • Can run two units at constant voltage or constant current with maximum output of 400 mA and 80 Watts. • Time can be set in one minute increment or continuous mode. 	5	3000
29)	<p>Stereomicroscope for Research</p> <ul style="list-style-type: none"> • Microscope body with ESD capability, 0.8-4X zoom optics and 45 degrees inclination binocular tube • Zoom ratio 5:1 • Inter pupillary adjustment:52-76mm • Eyepiece 10X with ESD capability, F.N. 22, focusable 	1	2500

	<ul style="list-style-type: none"> • Black and white reversible stage plate with ESD capability on black surface • Bright LED illumination for reflected goose neck light 		
30)	Fridge 350 L <ul style="list-style-type: none"> • Refrigerator type: top freeze refrigerator • Capacity: 325-350L • Number of door: 2 • Star rating: minimum 4 • Defrost type: automatic • Interior light: yes • Power: 140-260V • Stabilizer free: yes • Warranty: at least one year in freeze and 10 years in compressor 	6	2500
31)	Water purification system <ul style="list-style-type: none"> • Comprehensive and optimized sequence of water purification and monitoring which allows the system to produce both pure (Resistivity : 10-15 MΩ·cm @ 25° C ,TOC : <30 PPb, 10L/hr) and ultrapure water (Resistivity : 18.2 MΩ·cm @ 25° C ,TOC : <5 PPb ,Bacteria : < 0.1cfu/ml ,Product water delivery : 2 L/min ,Pyrogen Levels (EU/mL) :<0.001, RNase Level (ng/mL) :< 0.01, DNase Level (pg/μL) :< 4) from in a single unit (Maximum 240 L/ day). • Iron removal filter as a pre filtration unit. • Pre-treatment cartridge with polyphosphate granules (anti-scaling compound), 5 micron and 1 micron filter and silver imprinted activated carbon. • High flux thin film composite polyamide RO membrane with 95- 99% rejection. • Conductivity cells before and after the RO Membrane and should have high recovery loop with capillary tube and diaphragm valve to reduce the wastage of feed water. • Auto regenerated Electro deionization module with Carbon beads at cathode. • EDI (Electro-deionisation) module should not require softening pre-treatment. • To avoid maintenance errors and to improve traceability, the internal water purification cartridges should have a built-in RFID [Radio Frequency identification] tag. • UV lamp 254 nm to remove germicidal effect before entering the tank. • Blow moulded Polypropylene reservoir with sensor rod float switch and a 3 stage vent filter consisting of soda lime, activated carbon and 0.22 micron hydrophobic membrane to sanitize air and have the option of using Automatic sanitization Module. • Large built-in display to ensure the system parameters are displayed all the times. • Auto diagnostic facility with Error Number and Alarm Code and real time clock to log reports with date and time to ensure complete traceability. 	1	32000

	<ul style="list-style-type: none"> • To prevent deterioration of water quality during periods of non-use, the ultrapure water system will be able to recirculate water to maintain high water quality. • Built in TOC monitor with a 0.5mL Quartz cell and UV lamp which accurately measures online TOC from 1-999ppb and with the ability for self-calibration and check curve display. • Point of delivery unit with the polishing filters at the point of use. • Standalone point of delivery unit with <ol style="list-style-type: none"> 1. Adjustable height and rotating arm-adjustable to any glassware. 2. Multi-color monitor displaying: resistivity, TOC, level of water in reservoir, volume dispensed and other alarms, printing to be directly accessible from the point of delivery unit • 100 litres water storage tank 		
32)	<p>Orbital shaker incubator</p> <ul style="list-style-type: none"> • Shaking Frequency- 30-300 rpm, • Digital Display of speed, • Motion- Orbital • Diameter of motion- 20-30 mm • Temperature Range: 10 degree C below Ambient to 60 degree C OR Better • Temperature control: Microprocessor control • Temperature Display: Digital LED • Temperature control failure deviation alarm-audible and visual. • Door: Inside clear visibility while door is closed. • Overheating cut-out- Thermostat • Safe operation form electrical Hazards • Drive: Beltless and Brushless DC/AC motor for heavy duty continuous and maintenance free operation, vibration free shaking. • Dimension (Internal WxDxH): 50x50x400 cm or higher • Universal Tray made up of aluminum or stainless steel (304) to hold 36 numbers of 100 ml flask. • Stainless steel (304) clamps to hold: 5 flasks of 500 ml, 10 flasks of 250 ml, 10 flasks of 100 ml. • SS-304 Test Tube Stand for 25 mm and 30 mm tubes • SS (304) Shelves for stationary cultures-1 • Warranty: 5 years, Free of cost, on site at CUJ. • Current Certificates of Performance from government institutions where the systems are installed: List of their users, Address and functional contact details should be submitted. 	1	7000

	<p>Cold room</p> <ul style="list-style-type: none"> • SIZE 10 X 10 X 8, • Insulation: 60 mm CFC Free Foamed In-place POLY URETHENE FOAM Panel for Walls, Floor and Ceiling, • Material of outer sheets: Prepainted GI, • Room temperature: 2 Deg C to 8 Deg C, • Door Size for cold room: 34" x 78" – Hinged, • Ambient Temp Considered:38 Deg C Max, • Water absorption 2% (max), • Vapour permeability less than 2% • Refrigeration Unit for Cold Room Cooling Capacity : 10,000 BTUH, • Digital Temperature Indicator with light switch on Door • Two sets of Refrigeration unit :One running and one as standby. • Refrigerant used: R22 	1	11500

Handwritten signature

**Principal Investigator,
DBT- CUJ BUILDER programme**