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Ref: BU/CoEBESO& BT/2023/077

Quotation Call Notice

Sealed quotations (Two bid system) are invited for the purchase of Laboratory equipments, GPU and Licensed softwares from original manufacturers, distributors, authorized dealers or registered vendors for the CoEBESO, Innovation and Incubation Centre and PG Dept. of Biotechnology. **The last date for submission of sealed quotations is 28**th **August 2023.** The undersigned reserves the right to cancel the Open Tender Notice without assigning any reason thereof. The interested bidder/supplier/ manufacturer/ authorised dealer/ vendor should download the bid document from the Website www.buodisha.edu.in. Alternatively, bid document can also obtain by sending email request to the Coordinator, Coe-BESO, PG Dept. of Biotechnology, Berhampur University

Coordinator CoE BESO

Date: 08/08/2023

Terms/ Conditions Details:

- 1. An amount (Non-refundable) of ₹2,000/- towards cost of RFP (Request for proposal) be deposited in the shape of SBI DD drawn in favour of the Comptroller of Finance, Berhampur University payable at State Bank of India, Bhanjabihar (2107).
- 2. Submit the EMD, @2% (Refundable) of the estimated value of the goods/softwares in the shape of Demand Draft drawn in favour of the Comptroller of Finance, Berhampur University payable at State Bank of India, Bhanjabihar (2107), along with the technical bid.
- 3. This is two bid system. The firm shall quote both the Technical Bid consisting of all technical details along with commercial terms & conditions and Financial Bid indicating item-wise price per unit as per our specification including all Taxes, Transportation and installation. Technical Bid and Financial Bid should place in separate sealed covers duly superscribed each and send both technical bid and financial bid packets in another sealed cover superscribed with the 'BID for Laboratory equipments, Softwares and GPU' through Speed Post / Registered Post only addressed to 'Coordinator, CoEBESO, PG Dept. of Biotechnology'. Technical bid shall be opened on 28th August, 2023 at 4:00 P.M.
- 4. The technical bid shall be evaluated on the basis of technical parameters, and other requirements as per advertisement. The Financial Bids of qualified firms only shall be opened after evaluation of Technical Bids submitted by the bidders.
- 5. Splitting of the bid (item wise) is allowed in this quotation call notice.

through email ID "jp.bt@buodisha.edu.in" on or before 25th August 2023.

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- 6. These quotations shall remain in force for the Financial Year 2023-24. The quantity mentioned in the specification is indicative only and it may vary during the time of order.
- 7. Equipments, Materials and softwares in good condition should be delivered at the Central Stores, Berhampur University, Bhanjabihar, Berhampur-760007.
- 8. The transportation, installation and demonstration is at the cost of the Bidder. The bidder will have to provide service at their own cost for the maintenance services required at least for two years.
- 9. Warranty for each item is minimum for a period of Two years
- 10. In case of imported articles, the selected firm will take necessary steps for exemption of Custom Duty etc. at its own risk.
- 11. The firm should supply the articles within four to eight weeks from the date of issue of Purchase/ Supply Order.
- 12. Copy of IT of previous three financial years, PAN CARD, valid & up-to-date GST Registration Certificate and Audited Financial Statement of previous three financial years must be enclosed with Quotation/Tender paper.
- 13. Quotation/ Tender, incomplete in any respect, is liable for rejection.
- 14. The University reserves all the rights to modify the contents of the RFP, extension of last date of receipt of Quotation and to accept or reject any /all Quotation in full or in part without assigning any reason thereof.
- 15. Legal Dispute, if any, shall be within the Jurisdiction of Civil Court, Berhampur, Dist.- Ganjam, Odisha.
- 16. Depending on the urgency of the situation, penalty shall be imposed in case of delay in delivery of goods and services.
- 17. Payment shall be made after necessary verification and successful installation of the laboratory equipments, softwares and GPU. Goods and Service providers cannot claim any penalty or interest in case of delay in Payment caused due to verification of the quality and quantity of the Goods by the competent Technical person of the University.
- 18. The specification compliance in a tabular format should be submitted component wise in case of laboratory equipments and GPU.
- 19. Any query relating to the **procurement of Laboratory equipments, Softwares and GPU**, please contact Coordinator, CoEBESO, P.G. Department of Biotechnology via email id: jp.bt@buodisha.edu.in .

COORDINATOR, COE BESO



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$\frac{\textbf{DETAILED SPECIFICATIONS FOR LABORATORY EQUIPMENTS, SOFTWARES AND GPU}{\textbf{ITEM WISE}}$

Item 1: Carbon dioxide Incubator with regulator and Cylinder (Two sets)

Component	Specifications
CO2 Incubator	CO ₂ incubator with 100-160 Lt of internal capacity,
	Temperature management: 4°C above ambient to 50°C with increment of 0.1°C,
	Temp. accuracy: ± 0.4 °C at 37 °C, Temp. stability: ± 0.1 °C at 37 °C, Temp.
	uniformity: ± 0.3 °C at 37°C,
	CO_2 gas range: $0.1 - 20\%$ with control increment of 0.1% , CO_2 gas accuracy: \pm
	0.3% at the specified Relative Humidity (RH) at 37°C and ambient 22°C,
	CO_2 gas stability: \pm 0.1% at 37°C and ambient 22°C, Co_2 gas uniformity: \pm 0.1%
	at 37°C and ambient 22°C across the chamber.
	CO ₂ recovery rate: at least of 6 min after door closing to attain 5% CO ₂ .
	CO ₂ sensor: Dual Channel Infra-Red (IR), NDIR type with auto-calibration
	features to ensure accuracy of sensor automatically and should withstand at least
	180°C during high the temperature disinfection (No need to remove).
	Should have six-sided direct heating elements to ensure even distribution of heat
	throughout the entire incubator chamber. The Inner chamber should be single
	stainless-steel sheet with deep-drawn and seamless design with no corners, welds
	or joints for ease of cleaning. Should come with a removable humidity tray for easy cleaning and refilling of
	distilled water.
	Should be "fan less" design to reduce chance of contamination, reduce noise
	level, minimum air turbulence and bigger usable capacity.
	High-Temperature Disinfection of at least 180°C for 2 hours.
	Shelves: standard 3-4 perforated stainless-steel shelves of 1.5 mm thickness with
	single inner glass door.
	Display: at least 5inch LCD/ LED display for control of temperature and alarms.
	Should come with an inline pressure regulator to ensure less gas consumption
	and prevent overshooting of pressure.
	The system should have BMS relays built in and option to incorporate onto Data
	monitoring and documentations modules. Should have optional building
	management system relays.
	Should have optional incubator software command which allows tracking key
	operational information such as time, temperature, CO2 concentration and
	humidity.
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Gas Cylinder and	CO ₂ gas cylinder with 30kg CO ₂ gas capacity, CO ₂ gas regulator, N ₂ gas cylinder
Regulator	with 30kg N_2 gas capacity & N_2 gas regulator must be supplied.
Online LIDS	2 KVA Online LIDC (single Dhose) with 1 by be always asset be apprided.
Online UPS	2 KVA Online UPS (single Phase) with 1 hr backup must be provided



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Warranty	Three Years
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Item 2: Inverted Fluorescence Microscope with PC and Accessories (One Set)

Inverted Microscope for Brightfield, Phase Contrast & LED Epi-Fluorescence Attachment along with Camera & Image Analysis Software & Desktop Computer. The Microscope, Camera & Software should be from same manufacturer for better compatibility.

A. Microscope				
1 Optical Chromatic Aberration Free I	nfinity Optical system			
System				
Body Inverted Microscope Body In	ntegrated Diascopic Illumination Pillar, built in LED			
Illumination, objective elevation system for focusing. ON/OFF Switch &				
Diascopic & Epifluorescence selector switch should be there. Epi-Fluoresce				
attachment should be include				
2 Illumination High luminescence white LE	ED diascopic illumination with preferably built in			
Fly-Eye Lens				
3 Focus Via nosepiece up/down mov				
4 Eye pieces Pair of 10X (FOV 22mm) w				
	5°, Pupillary distance 50-75mm, Siedentop type			
6 Camera Port Attachable Camera Port, Eye	epiece: Port 100/0: 0/100			
7 Nose piece Quintuple Nosepiece				
	Attachable Mechanical Stage, cross travel 125(X) x 76(Y) mm			
9 Condenser ELWD condenser, N.A. 0.3	WD .75mm or better, removable			
	ki plate holder, glass slide, hemocytometer, Ø35-			
65dish				
11 Slider Precentered Phase Slider				
12 Observation Brightfield, phase contrast, f				
l l -	et up to 3 position filter cubes, LED Fluorescence			
	Filter Cubes of DAPI, FITC & TRITC			
	r Plan Fluor ELWD 40X; Super plan Fluor			
ELWD 60X, Plan Fluor 10				
Dust cover should be provided for the Micros	scope			
B. Camera				
Image sensor Color CMOS sensor with siz	ze of ½ "or better			
Resolution Actual pixels 5.5 megapixel	or more			
Speed Full resolution 15 fps; maxir	num 30 fps			
Exposure Manual and continuous auto	matic			
Exposure time 100 μ seconds to 30 seconds				
Interface USB 3.0				
Mount C mount				
C. Software				



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The software should be suitable for applications such as photo documentation. Other facilities such as: report generation, basic measurement, time lapse, z profile, movie creation, tiling, macro creation, multichannel imaging, image stitching, annotation. The make should be from same manufacturer. Note: The software should be dedicated to original licensed. No free software that comes with the camera will be acceptable. No third-party software will be accepted

D. Computer

The Firm should also quote Branded Desktop (Hp/Dell/Lenovo) Computer with the following specifications: i5processor,8GB RAM,1TB HDD, DVDRW,24" LED Monitor, Keyboard, Mouse, USB2.0 & USB3.0, WIN 10 Pro(64bit)

Warranty for Microscope, Camera, PC: Two/Three years

Item 3: GPU

	Item	Specification and Description				
1	GPU	NVIDIA GeForce RTX 4090 Founder Edition with following features-				
		Video Encode: 2x 8th Generation; Video Decode: 5th Generation; Power: Graphics				
		Card Power (W): 450, Minimum System Power (W): 850 W; Operating Temperature:				
		Maximum GPU Temperature (in C): 90; NVIDIA CUDA Cores:16384; Boost Clock:				
		2.52 (GHz); Cores: Ray Tracing Cores: 3rd Generation, Tensor Cores: 4th Generation;				
		Memory Interface Width: 384-bit; Standard Display Connectors: HDMI(2), 3x				
		DisplayPort(3); Multi Monitor: 4; HDCP: 2.3; Display Resolution:				
		7680x4320Connectors: 3x PCIe 8-pin cables (adapter in box) OR 450 W or greater				
		PCIe Gen 5 cable; Standard Mount Interface: 24 GB GDDR6X; Base Clock: 2.23				
		(GHz); Product Dimensions: Length: 304 mm, Width: 137 mm; Rashi Part Code:				
		RTX4090; Expansion Slots: 3-Slot (61mm)				
		Warranty-3 years				
2	GPU	NVIDIA GeForce 70W T4 accelerator with following features-				
		GPU Architecture NVIDIA, Turing NVIDIA Turing Tensor Cores 320, NVIDIA				
		CUDA® Cores 2,560, Single-Precision 8.1 TFLOPS, Mixed-Precision (FP16/FP32)				
		65 TFLOPS, INT8 130 TOPS, INT4 260 TOPS, GPU Memory 16 GB, GDDR6 300				
		GB/sec, ECC Yes, Interconnect Bandwidth 32 GB/sec, System Interface x16 PCIe				
		Gen3, Form Factor Low-Profile PCIe, Thermal Solution Passive, Compute APIs;				
		CUDA, NVIDIA TensorRT TM , ONNX.				
		Warranty- 3 years				

Item 4: Softwares (Licensed)

	Software	Specifications/Descriptions			
1	Endnote 20	Software Description: Wide collection of predefined reference styles, PDF			
	(Single User) reading facility, improved reference search through search engines, Sha				
		selected groups of references, manage team access and track activity and			



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shanges Must have tuterial for statistical analysis						
changes. Must have intorial for statistical analysis.	changes. Must have tutorial for statistical analysis.					
Software Version/ Date of launch of the version: version 20						
Type of License: Full license						
Duration of subscription: life time						
Number of licenses: 01						
License delivery mode: Dongle or Paper or Electronic Licence						
Type of installation: Installation/Integration/ Configuration						
Updates and fixes: Unlimited updation for Patches and Bug fixes within						
maintenance & support period. Supported operating system: Windows						
2 Graphpad Prism Software Description: Basic statistical analysis, descriptive statistics,						
(single user) correlation, generation of heatmap, preparation of coustomizable plots, fac	cility					
of data exportation from excel sheet, Probability Distributions, Normality	•					
Linear Regression, Logistic Regression, Hypothesis Testing, ANOVA,	cost,					
Nonparametric Tests, MANOVA, Survival Analysis, violin plot, forest plo	ot .					
generation.	<i>5</i> t					
Software Version/ Date of launch of the version: Prism 9						
Type of License: Perpetual Academic license						
Duration of subscription: Life time						
Number of licenses: 01						
License delivery mode: Dongle or Paper or Electronic Licence						
Type of installation: Installation/Integration/ Configuration						
	Updates and fixes: Unlimited updation for Patches and Bug fixes within maintenance & support period.					
	Supported operating system: Windows					
Supported operating system: windows						
3 IBM SPSS Base Software Description: Descriptive statistics, bivariate statistics, dta editor						
MODULE, IBM transformation, reporting, geospatial analysis, wide range of graphs, reliable						
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	SSIOII,					
and IBM SPSS binary logistic regression, constrained nonliner regression, nonliner regression, Ouantile regression, probit analysis. Automated data preparation						
, , , , , , , , , , , , , , , , , , ,	on,					
preparation validate data, identify unusual cases, optimal binning						
(Single User) Software Version/ Date of launch of the version: version 28						
Type of License: Perpetual Academic license						
Duration of subscription: Life time						
Number of licenses: 01						
License delivery mode: Dongle or Paper or Electronic Licence						
Type of installation: Installation/Integration/ Configuration						
Updates and fixes: Unlimited updation for Patches and Bug fixes within						
maintenance & support period.						
Supported operating system: Windows						
4 Comprehensive Software Description: Data entry more than 100 formats, analysis from						
Meta Analysis continuous and dichotomous data, funnel plot preparation, eggers regressive	on					
(CMA)-single analysis, forst plot, generation of high definition forest plots, sensitivity						

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	user		analysis, computational option both in random and fixed models, Import data					
			from other programs (STATA, Revman, Excel, and SPSS), measurement of					
			effect size.					
			Software Version/ Date of launch of the version: Version 4					
			Type of License: Profesional version Academic pricing					
			Duration of subscription: two years					
			Number of licenses: 01					
			License delivery mode: Dongle or Paper or Electronic Licence					
			Type of installation: Installation/Integration/ Configuration					
			Updates and fixes: Unlimited updation for Patches and Bug fixes within					
			maintenance & support period.					
			Supported operating system: Windows					
5	PyMOL	(Single	Software Description: MAE import: more ribbon styles and label improvements,					
	User)		MAE import dialog: discrete states support, Builder: Nucleotides from the PDB					
			can now be extended, APBS plugin: PDB2PQR 3 compatibility, STL export:					
			average normals when exporting, 'sphere_mode' s 10/11 scaled, Build					
			"Remove Residue" button added, Load collada as CGO, DX binary map in					
			support (*dxbin), PDB/MMTF export: symmetry information now add					
			Improved FASTA import, Support for map.gz and mrc.gz extensions, Build					
			Improved fris 171 import, Support for map.gz and integz extensions, Bunka Improved fuse command (disallows hypervalent bonds, substitute monovale					
			atoms instead of attaching to them), Panel: Customizable Keyboard Shortcu					
			Menu, Panel: Properties inspector now supports unsetting settings with "Delete"					
			key, Ray interior colors now match primitives with 'set ray_interior_color,					
			atomic` 120, Isomesh transparency support, `sphere_mode` 5 removed (9 as					
			replacement), Curved cartoon cylindrical helices					
			`cartoon_cylindrical_helices=1`, Isosurface generation via marching cubes with					
			setting `isosurface_algorithm, (0, 1)` (0 requires VTKm)					
			setting isostarace_argorium, (o, i) (o requires v ritin)					
			Software Version/ Date of launch of the version: Version 2.5					
			Type of License: Laboratory and Classroom license					
			Duration of subscription: 03 years					
			Number of licenses: 01					
			License delivery mode: Dongle or Paper or Electronic Licence					
			Type of installation: Installation/Integration/ Configuration					
			Updates and fixes: Unlimited updation for Patches and Bug fixes within					
			maintenance & support period.					
			Supported operating system: Windows					
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Coordinator, CoE BESO

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Format for the submission of Technical specification compliance while submitting the Technical bid (This should be submitted item wise in the bidders letter head Only)

Name of the Item:

Component:						
SI.	Specification desired	Make and Model	Specification compliance		Remarks	
			Yes	No		
1						
2						
3						

Signature and seal of the Bidder Date:
Address: