



CENTRE OF EXCELLENCE IN INTEGRATED OMICS AND COMPUTATIONAL BIOLOGY

(Supported by the Govt. of Odisha and WB-OHEPEE)

UTKAL UNIVERSITY, VANI VIHAR

BHUBANESWAR-751 004, ODISHA

Tender Paper

**For Procurement of Equipment/Consumables/ AMC of
Existing Equipment**

Financial year 2023-2024

Last date for submission of sealed Tender: Dt.27/03/2024 at 1.00 PM

Date and Time for opening of sealed Tender: Dt.27/03/2024 at 4.00 PM

Tender paper can be downloaded from

www.utkaluniversity.ac.in


Co-ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University



**CENTRE OF EXCELLENCE IN INTEGRATED OMICS AND
COMPUTATIONAL BIOLOGY**

(Supported by the Govt. of Odisha and WB-OHEPEE)

UTKAL UNIVERSITY, VANI VIHAR, BHUBANESWAR-751 004, ODISHA

TENDER PAPER

Sealed tenders are invited from authorized dealers/stockiest/manufacturers for supply of equipment, consumable items (i.e., chemicals, kits, glass wares, plastic wares, lab wares, custom services for Molecular Biology/Immunology/ Transcriptome Analysis/Proteomics/Sequencing/Primer/Peptide Synthesis and Annual Maintenance of existing equipment (i.e., Millipore Water Purifier (Make-Merck-Millipore), RT-PCR (Make-Applied Bio-system), Deep Freezer (-80°C Make-Thermo), CO₂ Incubator (Make-Eppendorf), for the financial year, 2023-2024. Details information and tender documents of the above items will be available at the website www.utkaluniversity.ac.in. The tender paper, complete in all respects, will be received by the undersigned within **14 (fourteen) days** of publication of this advertisement (i.e., **27.3.2024 (Wednesday) by 1.00 PM**). The cost of the tender paper is **Rs.300.00 (Rupees three hundred) only non-refundable through Demand Draft** in favour of **Coordinator and Co-coordinator, COE in IOCB** and payable at SBI, Utkal University campus Branch, Bhubaneswar. The sealed tender will be opened on **27.03.2024 (Wednesday) at 4.00 P.M.** The Authority reserves the right to accept/reject/cancel/change/modify any part or all tenders without assigning any reason thereof. The Authority will not be held responsible for any postal delay.

- **EMD value for each category of item mentioned against each item in the respective pages.**
- **Validity of the Tender & period of supply during the financial year 2023-2024 or/ as decided by the competent authority/ funding agency.**


Coordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Eligibility Criteria:

1. Tender paper is to be downloaded and submitted in the prescribed format. Tender fee and EMD are to be accompanied with the tender paper as mentioned against each item in the respective pages. EMD and tender fee are to be submitted in favour of the **“COORDINATOR AND CO COORDINATOR, COE IN IOCB”** in shape of a Bank Draft drawn on any Nationalized Bank payable at SBI, Utkal University campus Branch, Bhubaneswar. **No cash payment shall be received in this regard.**
2. Tender forms are not transferable.
3. **Bids have to be given in the desired format separately for each equipment, consumable items (i.e., chemicals, kits, glass wares, plastic wares, lab wares, custom services for Molecular Biology/Immunology/TranscriptomeAnalysis/Proteomics/Sequencing/Primer/Peptide Synthesis and Annual Maintenance of existing equipment (i.e., Millipore Water Purifier (Make-Merck-Millipore), RT-PCR (Make-Applied Bio-system), Deep Freezer (-80°C Make-Thermo), CO2 Incubator (Make-Eppendorf).**
4. Tender forms should be submitted in a sealed envelope along with the following documents.
 - (i) GST Certificate & Income Tax Clearance
 - (ii) Excise License (if needed).
 - (iii) Declaration Certificate and undertaking as per our format.
 - (iv) Original Price list with seal and signature of the tenderer on all pages at the bottom (No Tender shall be accepted without original price list / catalogue/ brochure) of the year 2023-2024.
 - (v) Original Authorization Certificate/ manufacture certificate from the Company.
 - (vi) Rates should be inclusive of all taxes, clearance and C.I.F. up to the Centre of Excellence in Integrated Omics & Computational Biology, 1st Floor, CIF Building (Adjacent to

Law Department), Utkal University, Bhubaneswar, along with prerequisites of installation.

(vii) DSIR Certificate will be provided by us if required.

N.B.:

1. Last date for submission of sealed tender is **Dt. 27.03.2024 (Wednesday) at 1.00 P.M.** at the Office of the Coordinator, Centre of Excellence in Integrated Omics & Computational Biology, 1st Floor, CIF Building (Adjacent to Law Department), Utkal University, Bhubaneswar.
2. **The sealed tender will be opened on Dt. 27.03.2024 (Wednesday) at 4.00 P.M.** in the Office of the Coordinator, Centre of Excellence in Integrated Omics & Computational Biology, 1st Floor, CIF Building (Adjacent to Law Department), Utkal University, Bhubaneswar in the presence of University purchase committee.
3. Bank Guarantee for EMD is not valid.
4. The authority may accept/reject/cancel/change/modify any part or tender as a whole without assigning any reason thereof.
5. The Authority is not responsible for any postal delay.
6. All supplies have to be made within 31st March, 2024 or 15 days from the date of confirmed order whichever is earlier or as decided by the University competent authority/ funding agency.
7. EMD of the parties whose Tender is not accepted will be returned back to the tenderer on submission of a stamped receipt.
8. Total pages of Tender paper: 53
9. Confirmation of the order will have to be submitted by the party within 7 days of the confirmed order.
10. Compliance/ noncompliance of the technical specification must be mentioned along with tender.
11. Hard copy of the tender documents must be accompanied with soft copies by a pen drive.

**Coordinator
CoE-IOCB**


Co-ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

(In Company's Letterhead)

Declaration

Date:.....

We hereby declare that we will quote same discount (i.e., as per price quoted for the CoE-IOCB, Utkal University), if other Departments within the Utkal University, Vani Vihar intend to purchase the items approved in this tender during the financial year 2023-2024.

Seal & Signature of the
Manufacturer / Authorized Dealer

Date:.....

Undertaking regarding Blacklisting & Non-Debarment

Dated: -----

We M/s-----hereby confirm and declare that we are not blacklisted/De-registered /debarred by any Government department/ Public sector Undertaking/ Private Sector/ or any other agency for which we have Executed/ Undertaken the works/ Services during last 5 years.

Seal & Signature of the
Manufacturer / Authorized Dealer

Date:.....


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

1. Consumable Items

Consumable items (i.e., chemicals, kits, glass wares, plastic wares, lab wares, custom services for Molecular Biology/Immunology/Transcriptome Analysis/ Proteomics/ sequencing/Primer/Peptide Synthesis.

CHEMICALS

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Supply of Consumables items for the financial year 2023-2024.


Ref. Advertisement (Name of the News paper)..... Dated:

EMD Value: Rs.10,000.00 (Rupees ten thousand) only for all consumable items mentioned above.(D.D. No.....Dated....., Bank.....

Sl. No.	Name of the Manufacturer / Brand Chemical	Discount (%) on the Price List
1.		
2.		
3.		
4.		
5.		

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Coordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

KITS/Antibodies

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology

Utkal University, Vani Vihar, Bhubaneswar-751 004


Sub: Supply of Kits/ Antibodies for the financial year 2023-2024.

Sl. No.	Name of the Manufacturer / Brand	Discount (%) on the Price List
1.		
2.		
3.		
4.		
5.		

Signature of the
Manufacturer / Authorized Dealer

Seal

Dated:.....


Coordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

GLASS-WARES

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology

Utkal University, Vani Vihar, Bhubaneswar-751 004

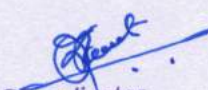
Sub: Supply of Glass-wares for the financial year 2023-2024.

Sl. No.	Name of the Manufacturer / Brand	Discount (%) on the Price List
1.		
2.		
3.		
4.		
5.		

Signature of the
Manufacturer / Authorized Dealer

Seal

Dated:.....


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

PLASTIC-WARES

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology

Utkal University, Vani Vihar, Bhubaneswar-751 004


Sub: Supply of Plastic-wares for the financial year 2023-2024.

Sl. No.	Name of the Manufacturer / Brand	Discount (%) on the Price List
1.		
2.		
3.		
4.		
5.		

Signature of the
Manufacturer / Authorized Dealer

Seal

Dated:.....


Co-ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

LAB-WARES

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Supply of Lab-wares for the financial year 2023-2024.

Sl. No.	Name of the Manufacturer / Brand	Discount (%) on the Price List
1.		
2.		
3.		
4.		
5.		

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

CUSTOM SERVICES

**(for Molecular Biology/
Immunology/Transcriptome analysis)**

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology

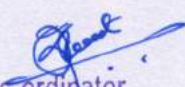
Utkal University, Vani Vihar, Bhubaneswar-751 004

**Sub: Customs Services for Molecular Biology/ Immunology
/Transcriptome Analysis/Proteomics/Sequencing/Primer/Peptide
Synthesis for the financial year 2023-2024.**

Sl. No.	Customs Services for Molecular Biology/ Immunology/ Transcriptome Analysis/Proteomics/Sequencing Primer/Peptide Synthesis	Discount (%) on the Price List/Specific custom service
1.		
2.		
3.		

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Coordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

2. Annual Maintenance

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Annual Maintenance for the financial year 2023-2024.

Ref. Advertisement (Name of the Newspaper)....., Dated:

.....

EMD Value: Rs.3,000.00 (Rupees three thousand) only

(D.D. No....., Dated:.....)

Bank.....

Sl. No.	Name of the Existing Equipment	Unit Price + Tax FOR Destination
	Annual Maintenance of existing equipment (i.e., Millipore Water Purifier (Make-Merck-Millipore), RT-PCR (Make-Applied Biosystem), Deep Freezer (-80°C Make-Thermo), CO ₂ Incubator (Make-Eppendorf),	
1.		
2.		
3.		
4.		

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Coordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 1
Nano Drop (Micro volume) Spectrophotometer

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,
 Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Nano Drop (Micro volume) Spectrophotometer for the FY 2023-2024

Ref. Advertisement (Name of the Newspaper)....., Dated:


EMD: Rs.14, 000.00 (Rupees fourteen thousand) only (D.D. No.....,

Dated:....., Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical specifications for Micro volume spectrophotometer:</p> <ul style="list-style-type: none"> • Sampling Option-The instrument should have both Pedestal as well as cuvette sampling option. • Sample Retention Mode- The instrument should have advanced technology of sample retention which facilitates the application of sample directly onto the optical measurement surface. • Wavelength Range: 190-850 nm or better • Minimum Sample Size: 1.0 µL • Pathlength: 0.030 to 1.0 mm (auto-ranging) • Light Source: Xenon flash lamp(Life time of the xenon lamp must be mentioned) • Detector Type: Type of detector to be mentioned • Wavelength Accuracy: ±1 nm • Spectral Resolution: ≤1.8 nm (FWHM @Hg 254 nm) • Dynamic range: 0.2 - 27,500 (ng / µL dsDNA) or better • Maximum Concentration: 27,500 ng/µL (dsDNA) or better • Measurement Time: 8 seconds or less • The system should be equipped with safety features to ensure measurement accuracy and integrity. • Data storage: The system should have inbuilt/internal storage system within the spectrophotometer. • Resolution: The system should have high resolution integrated touch screen. • Cuvette: Two pair of compatible quartz cuvette should be included. • Software: Software should have features to identify the contaminants/ other confounding factors like bubble in the sample and automated correction strategy. Software should be enabled with guided trouble shooting and instant response about the 	

	<p>sample quality.</p> <ul style="list-style-type: none"> • The instrument should be able to perform following applications or measurement Nucleic Acid, Labeled Nucleic Acids; Protein A280 and A205, nucleic acid protein Ratio and other standard protein estimation protocols. • Online UPS: Compatible online UPS and required electric point at the site may be quoted separately. • The warranty of the instrument as well as Online UPS should be 3 years from the date of installation. Additional warranty period for 2 years may be quoted separately. • No. Of preventive maintenance visits during the period of warranty. • Separate quotation may be given for interface computer with compatible software (if applicable). • Software upgradation: The bidder has to mention whether free upgradation will be provided or not. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. • Number of installations of the specific make and model in this region need to be mentioned. • 	

Dated:.....


 Signature of the
 Manufacturer / Authorized Dealer
 Seal

Item no. 2
UV-VIS Spectrophotometer

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,
Utkal University, Vani Vihar, Bhubaneswar-751 004


Sub: Procurement of UV-VIS Spectrophotometer for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

EMD: Rs.6,500.00 (Rupees six thousand five hundred) only D.D. No.....,

Dated:.....,..... Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical specifications</p> <ul style="list-style-type: none"> • Double Beam spectrophotometer. • Spectral Bandwidth: 2 nm or better. • Light Source:- Xenon Flash Lamp or more advanced technical option (3 years guaranteed or above) • Detectors :- Silicon Photodiodes • Wavelength Range:- 190-1100 nm • Wavelength Accuracy:- ± 0.5 nm • Wavelength Repeatability:- $< \pm 0.2$ nm • Scan Speed :- Slow, medium and fast (up to 1600 nm/min) • Photometric Linear Range -2A to +3.5A • Photometric Display range: -3A to +5A or less • Baseline Flatness: ≤ 0.003 Abs • Stray light: $< 0.05\%T$ at 220nm and 340nm • Photometric Accuracy: - ± 0.004 A at 1.0 A • Photometric Noise :- should be $< 0.0004A$ • Photometric Drift :- < 0.0005 A/hr • The instrument should be available as either a PC operated unit or as a stand-alone instrument with an integrated colored 	


 Co ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

	<p>and high resolution touchscreen. A branded desktop PC of suitable configuration is to be offered with the system even if it is a stand-alone instrument with touchscreen (May be quoted separately)</p> <ul style="list-style-type: none"> • Cuvette Glass- 4ml-2Number Quartz- 50 ul-2 Nos 1ml-2 Nos 4 ml-2 Nos • Operating mode: Single wavelength, multi wavelength, spectral scan , time scan • Instrument should come with all required software for bio-application like DNA/RNA estimation, Protein estimation by various assay (BCA, Bradford, Lowry),Enzyme kinetics. • Compatible online UPS should be provided along with instrument (may be quoted separately). • Warranty: Three years on the equipment as well as on the lamp. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacturur. • Number of installations of the specific make and model in this region need to be mentioned. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 3
High speed cooling centrifuge

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of High speed cooling centrifuge for the FY 2023-24

Ref. Advertisement (Name of the Newspaper), Dated:

EMD: Rs.4000.00 (Rupees four thousand) only (D.D. No....., Dated.....


Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical Specifications</p> <ul style="list-style-type: none"> • Cooling Centrifuge with minimum Speed of 15000 rpm/21000 x g or above • Temperature range: -10°C to +40°C and should be able to maintain 4°C at maximum speed • Timer settings:10 sec to 9:00 h, with continuous run function • Maximum capacity: 24 x 1.5/2.0ml tubes and 10 x 5 mL tubes • Rotor must be metallic • Rotors, lids & adaptor must be autoclavable at 121°C for 20 mins • System should also have the provision to use both fixed angle and swing bucket rotor • Aerosol tightness of the rotor should be certified. • System should be able to operate the rotor even without rotor lid and provision of rapid cooling of centrifuge chamber. • System should have an in-built condensation drain to prevent water accumulation inside the stainless rotor chamber to avoid corrosion • System should have a compatible and calibrated timer count which should start only when the set centrifugation RPM is reached. 	

	<ul style="list-style-type: none"> • Separate short spin key • Soft function to perform gentle acceleration and deceleration to enhance sedimentation . • Noise level: <55 dB(A) • Emergency lid opening system should be there • Bright digital display with LCD/ equivalent model • Instrument should be CE Certified • Warranty: minimum of 3 years from the date of installation. • Fixed angle rotor for 24 x 1.5 /2.0 mL tubes with aerosol tight lid with maximum of 15000 rpm or more and 21000 x g or more • Fixed angle rotor for 10 x 5 mL tubes with aerosol tight lid with maximum of 15000 rpm or more and 21000 x g or more <p>General Terms and Condition:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. • Number of installations of the specific make and model in this region need to be mentioned. • 	
--	--	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no.4
Ultra Sonicator
FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,
Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Ultra Sonicator for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:


EMD: Rs.1, 000.00 (Rupees one thousand) only (D.D. No.....,

Dated:....., Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical specifications</p> <p>System should be provided with</p> <ul style="list-style-type: none">• intense cleaning action.• Self-tunning, Simple to operate• SS lead• Digital countdown timer with LED display• Transducer frequency: 30Khz or more• Supplied with water drain valve.• Operate on 220V• Water Capacity: 2.5L or more• Tank Dimension: Must be compatible with water capacity.• Warranty: Three years on the equipment. <p>General Terms and Conditions:</p> <ul style="list-style-type: none">• Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB)• No. Of preventive maintenance visits during the period of warranty.• Duration of service support and years of availability of spare parts must be mentioned.• Service response time within warranty need to be mentioned.• Softcopy of the tender documents need to be given in pen drive/CD.• Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture.• Number of installations of the specific make and model in this region need to be mentioned.	

Dated:.....

Signature of the
Manufacturer / Authorized Dealer
Seal


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 5

Shaking Incubator with automatic thermostat

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, VaniVihar, Bhubaneswar-751 004

Sub: Procurement of Shaking Incubator with automatic thermostat for the financial year 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

Amount: Rs.1,000.00 (Rupees one thousand) only (D.D. No.....,

Dated:..... Bank.....

Sl. No.	Specifications	Unit Price + Tax FOR Destination
A.	<p>Make and Model</p> <p>Technical Specifications</p> <ul style="list-style-type: none">• Temperature Range & Accuracy: 5°C to 60°C, $\pm 0.5^\circ\text{C}$• Internal Volume (Liters): 215 or more• Maximum Shaking Capacity (Volume x No. of flasks)*: 100ml x 49, 150ml x 49, 250ml x 33, 500ml x 24, 1000ml x 15, 2000 ml x 9• Shaking Speed range (RPM): 0 to 300• Shaking Amplitude: 25 mm• With Microprocessor Temperature control having advanced sensor.• Display: LCD, large enough for clear reading• Power Failure Alarm: Audio Visual Alarm• Door Open Alarm: Audio Alarm in case door open for over one minute• Temperature Variation Alarm: Temperature range 10-60 °C, Audio Visual Alarm; Set temperature $< \pm 2^\circ\text{C}$• Illumination: 8 Watts Fluorescent Tube• Internal and external body material: High grade Stainless Steel or better• Insulation (CFC free polyurethane foam): 70 mm minimum for Body & 80 mm for Door• Timer - Continuous	

	<ul style="list-style-type: none"> • Incubator noise level should be minimal • Warranty: The warranty of the instrument should be 3 years from the date of installation. Additional warranty period for 2 years may be quoted separately. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. • Number of installations of the specific make and model in this region need to be mentioned. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co-ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no. 6
Roto-spin test tube rotor

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Roto spin test tube rotor for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

EMD: Rs.1, 000.00 (Rupees one thousand) only (D.D. No.....,

Dated:....., Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical Specifications</p> <ul style="list-style-type: none"> • Rotor RPM range: -5-50rpm • Time setting option: Should be available. • Plastic coated spring clips and adjustable from horizontal to vertical angle for mixing. • Warranty: Three years on the equipment. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no. 7
Refrigerator (Double Door)

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004


Sub: Procurement of Refrigerator (Double Door) for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

EMD: Rs.1, 000.00 (Rupees one thousand) only (D.D. No.....,

Dated:....., Bank.....


Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical Specifications</p> <ul style="list-style-type: none"> Function: Frost free double door refrigerator. Capacity: 230-260,260 and above. Operation: Stabilizer free operation. Top mounted freezer compartment. No. of Doors:2; with door lock. Star Rating 3 Star or better. Shelves: minimum 4 Self-material; Toughened glass/fiber. Digital display: Optional. Quieter operation and less power consuming. Warranty: 5 years on the body, on compressor 10 years. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) No. Of preventive maintenance visits during the period of warranty. Duration of service support and years of availability of spare 	


 Coordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

	<p>parts must be mentioned.</p> <ul style="list-style-type: none"> • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacturer. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no.8
Semi-motorized microtome

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Semi-motorized microtome for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

EMD: Rs.17,000.00 (Rupees seventeen thousand) only (D.D. No.....,

Dated:....., Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical Specifications</p> <ul style="list-style-type: none"> • Rotary Microtome Should be Semi-Motorized with low-maintenance and backlash-free precision micrometer feed system with step motor. • Horizontal feed and vertical stroke mechanisms should be available. • Should have Smooth-running hand-wheel with at least two manual sectioning mode. • Should have Two independent hand-wheel locking systems. • User-friendly separate control panel with adjustable inclination angle for ergonomic operation. • Section thickness settings for trimming and sectioning can be selectable and saved independently of each other. • Important operating information should be indicated on the front of the instrument: <ul style="list-style-type: none"> a. trimming or section thickness, b. specimen retraction (Retract), c. hand-wheel/specimen head locking function (Lock), d. section counter and section thickness • Should have Programmable specimen retraction system with ON/OFF Function. • Should have Unique rocking mode function on the control panel for rapid trimming with back and forth of hand wheel. • Should have Motorized horizontal specimen head movement. 	


 Co ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

	<ul style="list-style-type: none"> • Should have Visual/acoustic signals indicating the remaining feed and the front and rear travel limits. • Should have Efficient and rapid specimen exchange. • Should have anti-Static Charged section waste tray. • Precision specimen orientation with horizontal and vertical rotation of $\pm 8^\circ$, and calibrated controls. • Quick clamping systems for fast removal of specimen. • With provision of Universal cassette clamp. • Should have the two-in-one blade holder with colored safety guard and safe blade ejection. • Number of disposable blades-100no. • Technical Specifications: Trimming section thickness setting range: 1.0 to 600μm Setting values: From 1 to 10 μm in 1.0 μm increments From 10 to 20 μm in 2.0 μm increments From 20 to 50 μm in 5.0 μm increments From 50 to 100 μm in 10.0 μm increments From 100 to 600 μm in 50.0 μm increments • Section thickness setting range: 0.5 to 100 μm Setting values: From 0.5 to 5.0 μm in 0.5μm increments From 5 to 20.0 μm in 1.0 μm increments From 20 to 60.0 μm in 5.0 μm increments From 20 to 60.0 μm in 5.0 μm increments From 60 to 100.0 μm in 10.0 μm increments • Horizontal feed range: 24\pm1 mm/0.94 inches • Vertical stroke length: 70\pm1 mm • Electronic coarse feed speeds: slow forward and backward: 300 μm/s or less, fast forward: 800 μm/s or less and superfast backward (Fast homing): 1800 μm/s or less • Specimen retraction in motorized sectioning mode. • Warranty: Three years on the equipment. <p>Accessories (May be quoted Separately)</p> <ul style="list-style-type: none"> • Tissue embedding L molds (Metallic). • Tissue embedding station or system. • Tissue floating bath. <p>Tissue embedding station or system.</p> <p>Should be provided with</p> <ul style="list-style-type: none"> • LCD display • Low noise compressor for cold plate • High power LED light 	
--	---	--

	<ul style="list-style-type: none"> • Operating condition: ≤ 240 Volts • Parafilm bath capacity: should be mentioned. • Cassette tray: minimum 8 nos. or more • Work load capacity: More than 100 blocks/Hr. • Temperature range: Ambient to 70°C or more. • Capacity: 3L or above • Cold plate: Ambient to -20°C <p>Tissue floating Bath</p> <p>Should be provided with</p> <ul style="list-style-type: none"> • Water Temperature range: Ambient to 60°C or more • Power: 180VA or more • Water bath dimension: Should be mentioned. • Temperature tolerance: $\pm 1^{\circ}\text{C}$ <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co-ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 9
Tissue Homogenizer (Motorized)

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004


Sub: Procurement of Tissue Homogenizer (Motorized) for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

EMD: Rs.1, 000.00 (Rupees one thousand) only (D.D. No.....,

Dated:....., Bank.....


Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make and model</p> <p>Technical specifications:</p> <ul style="list-style-type: none"> Power Supply: 230V Speed Range-6000-30,000 rpm with digital display. Can be operated on hand as well as stand. Suitable for small sample volume. High-quality stainless-steel dispersing head. Corrosion and temperature resistance. Applicable for RNA/DNA extraction and pharmaceuticals. Suitable for looping sample into narrow space between high speed and relative motion state to shear and break. Handling Capacity: 0.5-50mL, 1-100mL, 1-250mL (To be quoted separately). Warranty: Three years on the equipment. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) No. Of preventive maintenance visits during the period of warranty. Duration of service support and years of availability of spare 	


 Co-ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

	<p>parts must be mentioned.</p> <ul style="list-style-type: none"> • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	--	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no. 10
High precision Weighing Balance

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of High precision Weighing Balance for the FY 2023-24

Ref. Advertisement (Name of the Newspaper)....., Dated:

EMD: Rs.1200.00 (Rupees One thousand two hundred only) D.D. No.....,


Dated:....., Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical specifications</p> <ul style="list-style-type: none">• Weighing balance should have complete glass wind shield.• Having Function key and sliding door opening/closing system.• Overload protection: Should be available.• Leveling feet and level indicator anti-theft device.• Unit conversion facility• Brilliant back lit display.• Maximum capacity: 220g.• Readability :0.1mg• Repeatability: 0.1mg• Linearity: 0.2mg• Response Time; 2Sec• AC adaptor; 230 volts• Tare range: Full• Platform dimension: to be quoted.• Balance Dimension: To be quoted.• Warranty: Three years on the equipment <p>General Terms and Conditions:</p> <ul style="list-style-type: none">• Price quoted should be inclusive of all taxes and custom	

	<p>clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB)</p> <ul style="list-style-type: none"> • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co-ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no. 11
BOD incubator

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of BOD incubator for the financial year 2023-24

Ref. Advertisement (Name of the Newspaper)....., Dated:

EMD: Rs.2500.00 (Rupees Two thousand five hundred) only (D.D. No.....,

Dated:..... Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical Specifications</p> <p>Microprocessor controlled BOD incubator</p> <ul style="list-style-type: none"> o Temperature Range:5^o-60^o o Accuracy: ±0.5^oc o Microprocessor with sensor-controlled temperature maintenance o PUF insulation o Forced air circulation by fan motor o Inbuild SS tubular heater o SS Trays: 2 or more., Adjustable o CFC free refrigerant and hermitically sealed compressor o Electrical Circuit breaker Sensor Failure alarm. o Touch screen LED display for temperature control and set with PLC & inbuilt audio-visual alarm o See through inner door o Outer door with smart handle, auto closure mechanism o Dimensions: Up-Right model, (Dimension to be mentioned) o Volume: <ul style="list-style-type: none"> Model A.170-200L B.270-300L o Over load protection for compressor 	

	<ul style="list-style-type: none"> ○ Interior Stainless steel ○ Exterior: CRCA steel/SS (SS is more preferred) ○ Recommended voltage stabilizer should be supplied. ○ Warranty: Three years on the equipment and stabilizer. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no. 12
CO₂ Incubator

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics& Computational Biology,

Utkal University, VaniVihar, Bhubaneswar-751 004

Sub: Procurement of CO₂ Incubator for the financial year 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:.....

Amount: Rs.8,000.00 (Rupees eight thousand) only (D.D. No.....,

Dated:....., Bank.....

Sl. No.	Specifications for CO ₂ Incubator	Unit Price + Tax FOR Destination
A.	<p>Make and Model</p> <p>Technical specifications</p> <ul style="list-style-type: none">• Internal capacity: Minimum 170 ltr or more• Temperature management: 4°C above ambient to 50°C with increment of 0.1°C• Temperature accuracy: ±0.4°C at 37°C or better• Temperature uniformity: ± 0.3°C at 37°C or better• CO₂ gas range: 0.1 – 20% with control increment of 0.1%,• Co₂ gas accuracy: ± 0.3% at the specified Relative Humidity (RH) at 37°C and ambient 22°C,• Co₂ gas uniformity: ± 0.1% at 37°C and ambient 22°C across the chamber• CO₂ recovery rate: 6 min or less after door closing to attain 5% CO₂.• Should have advanced feature for even distribution of heat throughout the entire chamber.• Facility for cleaning and refilling of distilled water.• Advanced /updated feature to minimize contamination, reduce noise level, minimum air turbulence.• CO₂ sensor: Dual Channel Infra-Red (IR), NDIR type with auto-calibration features• High-Temperature Disinfection [HTD] of at least 140°C for 2 hours or better.• Shelves: At least 3 or more; stainless-steel, may be perforated.	


Co-Coordinator
COE- Integrated Omics
& Computational Biology
Utkal University, Bhubaneswar

	<ul style="list-style-type: none"> • Display: LCD/ LED display for control of temperature along with alarms • May be with separate single inner glass door and options for 4-split inner doors or 8-split inner doors • Should be with inline pressure regulator. • The Inner chamber should be a single piece of stainless-steel sheet. • Advanced probing facilities for temperature, gas and water level. • Should have optional incubator software command which allows tracking key operational information such as time, temperature, CO2 concentration and humidity. • Must be supplied with 3 KVA Servo Stabilizer, CO2 gas cylinder with 30kg CO2 gas capacity & ISI mark double stage CO2 gas regulator. • Warranty: Three years on the equipment as well as on the lamp. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacturer. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 13

Vacuum filter unit for cell culture and Vacuum pump

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Vacuum filter unit for cell culture and Vacuum pump for the FY 2023-2024

Ref. Advertisement (Name of the Newspaper)....., Dated:

EMD: Rs.1000.00 (Rupees one thousand) only (D.D. No....., Dated:.....,.....

Bank.....


Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical specifications:</p> <p><u>Vacuum pump</u></p> <ul style="list-style-type: none">• Pump should be oil free and piston should be powered.• Motor Power (V/Hz): Greater than or equal to 220 volt / 50 Hz• Maximum power (w): Approximately 60• Maximum current (A): approximately 0.3 or more• Port Thread Size/outlet: approximately 8-10 mm• Motor rotation: equivalent to 1450 rpm• Weight: Less than 10 kg• Noise level: Not beyond 50 db• Ultimate vacuum (mbar): 100 or more <p><u>Glass filtration assembly:</u></p> <ul style="list-style-type: none">• Filter Funnel Glass with capacity 250 ml or more.	


Co-ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

	<ul style="list-style-type: none"> • Glass filters with conical/bottle receiver (500 ml/1lt). 500 ml or more. • 100% Autoclavable and ready to reuse. • With flexible tubing. • Metallic clamp (preferably aluminium). • Filter support base: ≥ 47 mm • Clamp size: ≥ 47 mm • Additional: Preferably with membrane filters. <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. • Number of installations of the specific make and model in this region need to be mentioned. 	

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co-ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 14
Chemiluminescence-based (Chemidoc) Imaging system

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Chemiluminescence-based (Chemidoc) Imaging system for the FY 2023-24

Ref. Advertisement (Name of the Newspaper)....., Dated:.....

EMD: Rs.20, 000.00 (Rupees Twenty thousand) only (D.D. No.....,

Dated:....., Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model:</p> <p>Technical specifications:</p> <p>Chemiluminescence-based (Chemidoc) Imaging system with following applications: Suitable imaging of</p> <ul style="list-style-type: none"> • DNA and RNA gels and fluorescence stain imaging with UV-Pad or Blue-Pad • Chemiluminescent and colorimetric western blots. • Fluorescent stained nucleic acid gel. • Fluorescent stained protein gel • Colorimetric stained protein gel • Colorimetric membrane stained • RGB fluorescence western blot detection. <p>Camera: Cooled CCD scientific grade camera having</p> <ul style="list-style-type: none"> • Camera resolution: ≥ 6 megapixel or above. • Dynamic Range: 4.5 OD or above. • Lense aperture: $\leq f/0.70$ • Native Resolution: 2838\times2224 • One clicked to image facility: Auto exposure, Auto focus, auto lighting. • Camera Cooling: Three stage peltier thermos electric cooling system. • Absolute cooling: -25$^{\circ}$c to -30$^{\circ}$c • USB: 3.0 speed. • Excitation source: Slide-out UV tray with Trans-UV (302 or 312 nm) 	

	<p>& Epi white LED</p> <ul style="list-style-type: none"> • A White-Light Table or Conversion Screen is to be included in the offer for colorimetric stained protein gels. • Epi-blue LED, Epi-green LED and Epi-red LED excitation source coupled with appropriate emission filters for Visible/RGB Fluorescent Imaging. • The instrument should be available as either a PC operated unit or as a stand-alone instrument with an integrated colored touchscreen. An i5 desktop PC of suitable configuration is to be offered with the system even if it is a stand-alone instrument with touchscreen. <p>Software:</p> <ul style="list-style-type: none"> • Free License free software for image acquisition with full GLP compliance. • Molecular weight calculation, band quantification, distance calculation, text annotation and image enhancement facilities should be included. <p>Maximum imaging area to be mentioned.</p> <p>Data output format should be mentioned.</p> <ul style="list-style-type: none"> • UPS if required may be quoted along with instrument. <p>Warranty: Three years from the date of installation.</p> <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 15

Ice Flaker

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Ice Flaker for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

EMD: Rs.3, 000.00 (Rupees three thousand) only (D.D. No.....,

Dated:..... Bank.....

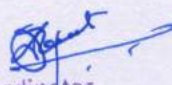
Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical specifications</p> <ul style="list-style-type: none">Ice flaker should produce daily ice flakes of up to 100 KG or more.Up to 30KG ice storage capacity.High Low maintenance bearing for enhance reliability.Heavy-duty stainless-steel cabinet resist corrosion.Easy Access door, slide up and out of the way.Flake Ice should be small, hard bits of ice ideally suited for healthcare applications.Standard equipment to be supplied with ice scoop with bin legs, alternate low profile legs standard. Legs adjustable.Refrigerant: R452AOperating limits:<ul style="list-style-type: none">Ambient temperature range: 10°C - 43°CWater temperature range: 3-32°CWater pressure ICE maker-Water in: Minimum 1 bar, maximum 6 bar.The tenderer should mention all installation pre requisites and space for installation with adequate clearance.Warranty:Three years on the equipment.	


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

	<p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	--	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co-ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no. 16
Computational Workstation

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Computational Workstation for the FY 2023-2024

Ref. Advertisement (Name of the Newspaper)....., Dated:

EMD: Rs.1, 000.00 (Rupees one thousand) only (D.D. No.....,

Dated:....., Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical specifications:</p> <ul style="list-style-type: none">• Processor- One nos., x86 Architecture based Intel/AMD Latest Generation processor. Each processor with clock speed of 3.9GHz base frequency, processor with 8Cores. Supports DDR4 2900 or better memory, 2MB cache per core or higher• System utility with Frameworks Preloaded- System should be preloaded with Precompiled frameworks (CPU & GPU optimized MxNet, CuDNN, Caffe and Pytorch) to be supplied with the system.• Chipset- Compatible CHIPSET• Memory -32GB Memory or more. Higher capacity of DIMMs must be up to 768GB or higher.• Licensed Node Management S/W and Scheduling Utility- Support Package and Image based provisioning, Intuitive web interface to manage and customize the node Customizing networks and compute node profiles through GUI.• Solid State Drives- 1 x 1000 GB 3.5" SATA 7200 RPM HDD.• Accelerator -1 x Computational GPUs , each with on board GPU Memory : 4GB, 300 CUDA Cores , and 3rd Gen Tensor cores.• Ethernet ports- At least 1 × 1Gbps Ethernet port• I/O slots-3 × PCIe 3.0 slots including x16 & x8 bandwidth based slots.	


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

	<ul style="list-style-type: none"> • Ports- Minimum 4 USB ports , 1 COM Port • OS- Windows /Ubuntu OS Linux Prelaoded. • Monitor-22" or higher LED Monitor. • KBD+Mouse- Standard Keyboard + Optical Mouse (Wireless +USB) <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacturer. 	

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


 Co ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

Item no. 17
Liquid Nitrogen tank

FORMAT

From:

M/S-----

To,
The coordinator,
Centre of Excellence in Integrated Omics & Computational Biology,
Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Liquid Nitrogen tank FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

EMD: Rs.7, 000.00 (Rupees seven thousand) only (D.D. No.....,

Dated:..... Bank.....


Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical Specifications</p> <p>The item should be provided with</p> <ul style="list-style-type: none"> o both manual and computerized inventory record keeping method. o Temperature Uniformity: o Audible alarm incase liquid nitrogen falls below range. o Advanced vacuum insulation to minimize liquid nitrogen evaporation. o Secured lock system. o Capacity: >4.0 cu. Ft. o Capacity:>120L or above o Temperature range:-180°C o Rack capacity: Minimum 4 Nos. o <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. 	


 Co-ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

	<ul style="list-style-type: none"> • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	---	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co-ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 18
Incubator/Rearing Chamber for Drosophila culture

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,
 Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Incubator/Rearing Chamber for Drosophila culture for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:.....

EMD: Rs.3, 000.00 (Rupees three thousand) only (D.D. No.....,

Dated:..... Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical specifications</p> <ul style="list-style-type: none"> • Microprocessor PID controlled and Refrigeration capacity control • Ideal for Fruit flies / Drosophila culture. • Capacity: 290-300 litres • Chamber temperature Range: 3-45°C (± 0.5 °C). • Light Cycle: Instrument should have light cycle that will reproduce diurnal cycle. • Cooling: Thermo Electric Cooling. • Dimensions Exterior, interior need to be mentioned. • Having Shelves -5 or more. • Digital Display • Should be provided with over temperature thermostat and alarm. • Program Function: Temperature, light and humidity • Minimum 10-step repeated 1-90(minimum) times. Max 10 programs memorized. Clock mode, timer mode, Start and time reservation function. • Temperature resolution: 0.1°C or better. • Temperature Accuracy: $\pm 1^\circ\text{C}$ • Humidity range: higher than ambient to 90% ($\pm 10\%$) • Lighting Range 0-20,000 Lx with adjustable Fluorescent lamp 	

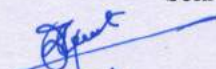

 Co-ordinator
 COE-Integrated Omics
 & Computational Biology,
 Utkal University

	<ul style="list-style-type: none"> • Inner-wall painted stainless steel is preferred. • Non CFC insulation. • Chamber should be provided with HEPA filter/UV sterilization to maintain sterile environment. • Warranty: Three years on the equipment <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> • Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) • No. Of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	

Dated:.....

Signature of the
Manufacturer / Authorized Dealer

Seal


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 19
Silent Disel Generator Set

FORMAT

From:

M/S-----

To,

The coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of 40KVA silent D.G Set with manual control panel for the FY 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

EMD: Rs.7, 000.00 (Rupees seven thousand) only (D.D. No.....,

Dated:....., Bank.....

Sl. No.	Specification	Unit Price + Tax FOR Destination
A.	<p>Make & model</p> <p>Technical Specifications</p> <ul style="list-style-type: none"> o Meeting latest CPCB-II norms. o Noise level needs to be mentioned o Engine Details: o Engine rated HP: 52.3 or higher. o Stroke four o Number of Cylinder: 4 o RPM: 1500 o Fuel consumption at full load need to be mentioned o Method of Cooling: Coolant Cooled. o Type of Governor: Electronic. o Starting system: 12 V electric stat. o Applicable standard: ISO 3046, BS 5514. <p>Alternator details</p> <ul style="list-style-type: none"> o Make and model need to be mentioned o Rating: 40KVA o KW: 32KW o Type: Brush less. o Excitation: Self excited, self-regulated. o Enclosure: SP-DP o Encloser protection: IP-23 o Rated current: 56 Amp o Rated voltage: 415V o Number of Phases: 3 o Frequency: 50Hz o Power factor; 0.8 PF 	

- Voltage regulation: $\pm 0.5\%$
- Over Load capacity: 10% for 1 hour for every 12 hour running.
- Applicable Standard: IS4722/BS5000
- Accessory are to be supplied with the DG set.
- Fuel tank-75L capacity minimum shall be supplied and to be mounted inside the canopy.
- 12V 90Ah battery of reputed brand.
- Battery lead and link as per needed.
- Anti vibration mounted pads.
- Residential silencer.
- First fill of Lube oil and coolant.
- Fuel for starting and testing for one hour.
- Canopy dimension: As per requirement.
- Validity: 90 days from the last day of tender.
- Warranty: Minimum 24 months or 5000 running hour which is earlier on engine and alternator against any manufacturing defects provided manufacturers recommended lube oil, coolant and genuine spare part are used.
- Complete installation including civil foundation and 4 numbers of earthing. Commissioning and standard electric cable connection up to the main supply board with change over switch will have to be done by the tenderer.

General Terms and Conditions:

- Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB)
- No. Of preventive maintenance visits during the period of warranty.
- Duration of service support and years of availability of spare parts must be mentioned.
- Service response time within warranty need to be mentioned.
- Softcopy of the tender documents need to be given in pen drive/CD.
- Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufactururer.

Dated:.....

Signature of the
Manufacturer / Authorized Dealer Seal

49


Co-ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 20

AUTOCLAVE

FORMAT

From:

M/S-----

To,

The Coordinator,

Centre of Excellence in Integrated Omics & Computational Biology,

Utkal University, Vani Vihar, Bhubaneswar-751 004

Sub: Procurement of Autoclave for the financial year 2023-24

Ref. Advertisement (Name of the News paper)....., Dated:

Amount: Rs.1,000.00 (Rupees one thousand) only (D.D. No.....,

Dated:....., Bank.....

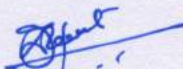
Sl. No.	Specifications	Unit Price + Tax FOR Destination
A.	<p>Make and Model</p> <p>Technical specifications</p> <ul style="list-style-type: none">• Autoclave should have sturdy construction and double walled• Inner chamber i.e. boiler made of high-quality stainless steel.• Outer shell may be painted.• Boiler and Outer shell provided with air insulation• Lid made up of thick good quality steel and tightened by radial locking system• Joint less neoprene gasket• Paddle lifting device to open and close lid• Fitted with water indicator, pressure gauge, steam release cock, and spring loaded safety valve.• Pressure Range: 5-20 psi• Temperature: 121 °C• Chamber Volume: 50 L or more• Should be with stainless steel perforated basket• Power supply: must be mentioned and the power Consumption should be 3 kW or lesser. <p>General Terms and Conditions:</p> <ul style="list-style-type: none">• Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB)• No. Of preventive maintenance visits during the period of	


Coordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

	<p>warranty.</p> <ul style="list-style-type: none"> • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	--	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

Item no. 21**pH meter****FORMAT**

From:

M/S-----

To,

The coordinator,

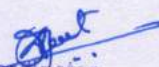
Centre of Excellence in Integrated Omics & Computational Biology,
Utkal University, VaniVihar, Bhubaneswar-751 004**Sub: Procurement of pH meter for the financial year 2023-24**

Ref. Advertisement (Name of the Newspaper), Dated:

Amount: Rs.1,000.00 (Rupees one thousand) only (D.D. No.....),

Dated....., Bank.....


Sl. No.	Specifications	Unit Price + Tax FOR Destination
A.	<p>Make and Model</p> <p>Technical specifications</p> <ul style="list-style-type: none"> The Range of pH meter should be 0 to 14 pH and with minimum resolution of 0.01 pH The stability should be 0.01 pH per hour Relative accuracy should be minimum ± 0.02 pH ± 1 digit Slope should range from 85% to 115% Standard buffers 7.000, 4.004 or 9.183 should be supplied along with the system. <p>Electrochemistry</p> <ul style="list-style-type: none"> Resolution should be minimum 1 mV Accuracy should be ± 1 mV and ± 1 digit <p>Temperature</p> <ul style="list-style-type: none"> Compensation should be auto or manual <p>Display</p> <ul style="list-style-type: none"> Should be at least 7 digits, 7 segments LED with 3 digits for temperature and 4 digits for pH. <p>Power</p> <ul style="list-style-type: none"> Should be compatible with 230 V AC $\pm 10\%$, 50 Hz <p>General Terms and Conditions:</p> <ul style="list-style-type: none"> Price quoted should be inclusive of all taxes and custom clearance (if applicable) and FOR destination (Utkal University-CoE-IOCB) 	


Co coordinator
COE-Integrated Omics
& Computational Biology,
Utkal University

	<ul style="list-style-type: none"> • No. of preventive maintenance visits during the period of warranty. • Duration of service support and years of availability of spare parts must be mentioned. • Service response time within warranty need to be mentioned. • Softcopy of the tender documents need to be given in pen drive/CD. • Make and model of the equipment/item quoted need to be mentioned with documental evidence/brochure of authorized company/manufacture. 	
--	--	--

Signature of the
Manufacturer / Authorized Dealer
Seal

Dated:.....


Co ordinator
COE-Integrated Omics
& Computational Biology,
Utkal University