REQUEST FOR QUOTATION FOR SUPPLY OF TANGIBLE GOODS

Reference No.	RFQ No: DUT-80/26
Item Description	Benchtop Bioreactor (1.5 L) for Fungal Cultivation
Closing Date & Time **No Late, Hand Delivered submissions will be accepted**	10-11-2026 @11:00am NB: Bids should be emailed no later than 10 minutes prior to the closing date and time. Any bids received after 11 h 00 am will NOT be considered.
Bid submission email	ROQPG4@dut.ac.za
Procurement & General Enquiries	ernestd@dut.ac.za
Technical Enquiries (to be completed by end user)	Samantha Govender Govends@dut.ac.za
Compulsory site visit / briefing session (if applicable)	N/A

1. INTRODUCTION

Durban University of Technology invites suitably qualified and compliant service providers to submit quotations for the supply / delivery (Installation if applicable) of **Benchtop Bioreactor (1.5 L) for Fungal Cultivation** . This procurement is undertaken in accordance with the approved DUT Procurement Policy.

2 SCOPE OF WORK

2.1 Purpose of the Scope

The purpose of this Scope of Work is to clearly define the goods required by the Durban University of Technology (DUT), the expected outputs, performance standards, and delivery requirements. The successful service provider shall be required to deliver the specified goods to the relevant DUT campus/site (in consultation with central stores unit) in accordance with the requirements outlined herein.

2.3 Scope Description

The appointed service provider/supplier shall be responsible for the full provision of the following:
The service provider shall:

1. Supply brand-new, unused goods that comply fully with the technical specifications detailed in Section 3.
2. Ensure that all goods meet applicable safety, regulatory, and compliance standards (SANS/ISO/OEM/SABS where applicable) with proof of certification.
3. Include all necessary components, accessories, and fittings required for full functionality.
4. Provide manufacturer warranties and product documentation.
5. Ensure safe packaging and transportation to prevent damage.
6. The scope includes, but is not limited to:
    - Site inspection (if required);
    - Delivery and installation;
    - Testing and commissioning (where applicable);
    - Training of DUT personnel (if required);
    - Removal of waste materials;
7. Where installation is required, the service provider must ensure:
    - Compliance with all statutory and safety regulations including competent personnel.
    - No disruption to academic or operational activities;
    - Proper reinstatement of work areas after completion.

8. The successful bidder shall provide the following deliverables:
    - Goods delivered in full and in working condition.
    - Installation and commissioning certificate (if applicable).
    - Warranty documentation.
    - Compliance certificates (where required).
    - Training manuals or user guides (if applicable).
    - Signed delivery note and handover documentation.

    NB: Failure to meet deliverables may result in non-payment or remedial action.

2.4 Timeframes

The service provider shall:

- Deliver said goods within the stipulated timeframes as indicated in their documentation.
- Notify DUT immediately of any delays.

Time shall be considered of the essence unless otherwise agreed in writing.

2.5 Location (For completion by end user)

Delivery / installation of goods shall take place at:

Region	Durban
Campus name	Steve Biko Campus
Building/Department/floor/room number	S9 L01
Physical address	Steve Biko Road, Berea, Durban, 4000
Access arrangements must be coordinated with the designated DUT representative	Ms. Samantha Govender Contact No: 031 373 2738/ 0837995526 E-mail Address: govends@dut.ac.za

2.6 Variations

No variation to this Scope of Work shall be permitted without:

- Written approval by the relevant delegated authority;

2.7 Non-Splitting Clause

The requirement described herein constitutes a single consolidated procurement requirement. Any attempt to split the scope to avoid procurement thresholds is prohibited and constitutes non-compliance.

3. TECHNICAL SPECIFICATIONS (For completion by end-user to complete)

No.	Item Description	Specification Requirement
1.	Benchtop Bioreactor (1.5 L) for Fungal Cultivation	Culture vessel: Requirement Autoclavable borosilicate glass vessel, total volume 1.5 L (± 0.2 L). Working volume range of at least ≤ 0.5 L to ≥ 1.0 L. Larger vessel (approx. 3 L or 6–7 L) on the same base unit Vessel temperature control by double-walled (jacketed) vessel, or by heating blanket with cooling finger. State the method offered. Vessel, top plate and all wetted parts autoclavable at 121 °C. State the assembled height so autoclave fit can be confirmed. Wetted metal parts in 316L stainless steel with smooth, crevice-free surfaces and no internal dead legs, to allow complete removal of fungal biomass during cleaning. Removable baffles (at least 3) supplied, so the vessel can run baffled or unbaffled. Same base unit and controller accepts at least two larger vessel sizes (approx. 3 L and 6–7 L) without a new controller or software licence. Agitation Requirement Top-driven agitation by direct-drive motor or magnetic coupling. State the shaft seal type. Speed continuously adjustable from ≤ 50 rpm to ≥ 1 200 rpm, accuracy ± 1 rpm or ± 1 %. Supplied as standard: two Rushton turbines (for yeasts and high oxygen transfer) AND one set of low-shear axial-flow impellers (pitched-blade, marine or segment type) for filamentous fungi. Impeller height adjustable on the shaft without special tools. Speed range up to ≥ 1 500 rpm. Top plate, ports and sampling Requirement Ports for at least: pH, DO, temperature, foam sensor, level sensor, sparger, exhaust condenser, inoculation, sampling, harvest and four liquid additions (acid, base, antifoam, feed). At least two free ports after one of which accepts a standard 12 mm (PG 13.5) probe for future sensors (e.g. capacitance biomass, redox). All fittings fixed and released without tools; individual ports serviceable without dismantling the whole top plate.

No.	Item Description	Specification Requirement
		Aseptic sampling system with a wide-bore dip tube (internal diameter ≥ 3 mm) suited to viscous mycelial and pellet broth, with minimal dead volume. Height-adjustable harvest tube. Multi-way addition port (e.g. 4-in-1 needle or septum port). Sensors Requirement Autoclavable pH electrode, range 2–12, accuracy ± 0.02 pH; two-point buffer calibration plus in-process (product) recalibration. Autoclavable optical (luminescence) DO sensor, range 0–100 % air saturation or wider, needing no polarisation time. Pt100 temperature sensor, accuracy ± 0.1 °C. Height-adjustable foam sensor and level sensor. Digital pH and DO sensors that store calibration data in the sensor head, so pre-calibrated sensors can be swapped without recalibration at the controller. Aeration and gassing Requirement At least two integrated thermal mass flow controllers for air and O_2 (N_2 option for micro-aerobic work), covering ≤ 0.05 to ≥ 2.0 vvm at maximum working volume. Ring or open-pipe sparger with an orifice size that resists blockage by mycelium. DO cascade control (agitation, then air flow, then O_2 enrichment), user-configurable. Exhaust gas condenser (Peltier or water-cooled) to limit evaporation, with 0.2 µm sterile filters on inlet and exhaust lines. Headspace (overlay) gassing option. Pumps and liquid addition Requirement At least four integrated peristaltic pumps (acid, base, antifoam, feed), each freely assignable and able to run at fixed or variable speed. No external pump module needed. Flow range of about 0.01 mL/min to ≥ 15 mL/min across the tubing supplied. State the tubing sizes and flow per size. Programmable feed profiles (linear, exponential, pulse) for fed-batch and continuous (chemostat) operation. Autoclavable pump heads, or tubing that can be changed without breaking sterility. Balance interface for gravimetric feed control. Temperature control Requirement Control range from ≤ 15 °C (or ≤ 5 °C above coolant temperature) to ≥ 60 °C, stability ± 0.1 °C. Stable control at 20–30 °C in a laboratory at 25–30 °C ambient is required. Foam control Requirement

No.	Item Description	Specification Requirement
		Automatic antifoam dosing triggered by the foam sensor, with adjustable dose and delay times. Mechanical foam breaker on the agitator shaft. Control unit Requirement Integrated stand-alone controller with touch screen of at least 7" (17.8 cm), English interface. Closed-loop control of temperature, pH (two-sided, acid and base), DO, agitation, gas flow, foam and feed. On-screen calibration routines for every sensor supplied. Stand-alone data logging with CSV export to USB, without a PC or extra licence. At least 2 analogue inputs and 2 analogue outputs (4–20 mA) for external devices such as a balance or gas analyser. Configurable visual and audible alarms. After a power interruption the system restarts safely and resumes the run with set-points and logged data retained. Software and connectivity Requirement Supervisory software from the manufacturer or an authorised partner, with hardware and software support through one point of contact (the local agent). Licence for at least one workstation included. State whether it is perpetual or subscription, and any annual fees. Real-time trending, batch records and reports, export to CSV/Excel. Recipe and batch libraries; user-defined soft sensors (e.g. OUR, CER, RQ when a gas analyser is fitted). Multi-level user management (at least administrator, operator, viewer) with audit trail. OPC UA over Ethernet; REST API or equivalent open interface. Control and side-by-side comparison of several units from one software instance; browser-based access without client installation. Physical, electrical and compliance Requirement Benchtop unit. Footprint of base unit and controller not more than about 500 mm (W) × 550 mm (D); height including vessel and motor not more than about 800 mm. State actual dimensions and mass. 220–240 V AC, 50 Hz, single phase, with South African plug (SANS 164) or approved adaptor. State power consumption. CE marked or equivalent; manufacturer certified to ISO 9001. State gas supply pressures and connection types required for air, O_2 and N_2. Online UPS sized for controller, pumps and agitator Supply, installation, training and support Requirement

No.	Item Description	Specification Requirement
		Complete, ready-to-run system: vessel, top plate, all sensors listed in 2.4, impellers, sparger, tubing, sterile filters, tool kit and a starter set of consumables. Itemise the scope of supply. Delivered duty paid (DDP) to DUT, Durban. State the delivery lead time from order. On-site installation and commissioning by a factory-trained engineer, including an acceptance test run showing control of temperature, pH, DO, agitation and gas flow. On-site user training of at least 2 days for up to 6 users. Operating manuals in English, printed and electronic.
2.	Warranty period	Warranty of at least 24 months from commissioning, covering parts, labour and travel.
3.	Defects liability period (if applicable):	

5. EVALUATION CRITERIA

5.1 COMPULSORY DOCUMENTS (Phase 1)

Failure to submit compulsory documentation and compliance with specification will result in disqualification.
Suppliers **must** submit:

1. Valid Tax Compliance Status PIN (TCS PIN)
2. Signed Form of Offer (Section 6)
3. Signed Declaration of Interest (see Annexure A to D)
4. Proof of Authorised Reseller Agreement / Partnership Certificate
5. Minimum two customer references / Tax invoices and corresponding Purchase Orders were delivery and/or installation of similar goods have been concluded
6. Company Registration documents
7. The service provider must provide supporting documentation (e.g. datasheets or OEM certificates) confirming compliance with the specifications in Section 3, above.

NB: The University will only consider service providers with proven relevant experience, capacity, and technical expertise in the required goods/services; general dealers or intermediaries without demonstrable capability and direct knowledge of the transaction will not be considered.

5.2 PRICE / PREFERENCE - 80/20 System:

Bidders must submit a valid B-BBEE Certificate or Sworn Affidavit non-submission will result in 0 points being awarded for B-BBEE

Criteria	Points
Price	80
DUT Specific Goals / B-BBEE	20

DUT specific goals for B-BBEE points

Specific Goal		80/20	
		Sub-points	Total Points
	Exempted Micro Enterprise (EME) or Qualifying Small Enterprise (QSE)	3	3
Black-owned Enterprises	100% Black owned enterprise	3	3
	Minimum 51% black-owned enterprise	2	
	Minimum 25% black-owned enterprise	1	
Black Women owned Enterprise	100% Black Women owned enterprise	5	5
	Minimum 51% black women-owned enterprise	4	
	Minimum 25% bl ack women-owned enterprise	3	
	Less than 25% of black women-owned enterprises but not less than 10%	2	
Enterprise owned by Youth	100% Black Youth owned enterprise	5	5
	Minimum 51% black Youth owned enterprise	4	
	Minimum 25% black Youth owned enterprise	3	
	Below 25% black youth owned enterprises but not less than 10%	2	
Enterprises owned by people with disabilities	Minimum of 51% owned by people with disabilities	2	2
	Minimum of 10% owned by people with disabilities	1	
Additional Specific goals	An entity which is at least 51% owned by black people living in rural or underdeveloped areas or townships	1	1
	A cooperative which is at least 51% owned by black people	1	1
			20

6. FORM OF OFFER AND ACCEPTANCE

PART A – OFFER

6.1. OFFER

The Bidder, identified in the signature block below, hereby offers to supply and deliver the goods and/or render the services described in section 2 and 3 above:

RFQ No:_____

Description: _____

to the **Durban University of Technology (DUT)** in accordance with:

- The RFQ document;
- The Scope of Work and Technical Specifications;
- The General Conditions of Contract (Annexures E)

6.2. OFFERED CONTRACT PRICE

PRICE SCHEDULE (to be completed in by the bidder)

No.	Item Description	Qty	Unit Price	Amount
Total Excl. VAT				
VAT (15%)				

Total Incl. VAT	

Total amount in words (Incl. VAT):

_____

_____

_____

The offered price includes all supply and delivery, packaging, insurance, duties, installation, incidental costs and Is fixed for the duration of the validity period. Remains valid for **60 days** from RFQ closing date.

6.3.1 COMPLIANCE DECLARATION

The Bidder certifies that:

- The information provided is true and correct.
- The Bidder is not listed on the National Treasury Restricted Supplier Database or has not previously been blacklisted or failed to supply DUT on a previous contract.
- The Bidder has not engaged in collusive practices.
- The Bidder accepts the General Conditions of Contract.
- No contract exists until an official DUT Purchase Order is issued.

The Bidder acknowledges that:

- This RFQ constitutes a single consolidated procurement requirement.
- Splitting of procurement to avoid threshold controls is prohibited.
- DUT reserves the right to cancel the RFQ if threshold irregularities are detected.

The Bidder confirms that DUT is authorised to verify:

I. Supplier registration status prior to award and prior to payment.

II. Banking details

III. Tax compliance status

IV. Restriction status

- The Bidder acknowledges that an inactive or non-compliant status may result in disqualification.

In accordance with the Protection of Personal Information Act (POPIA) the Bidder confirms that:

- All personal information submitted is lawfully obtained.
- Appropriate consent has been secured.
- The Bidder shall:

I. Safeguard personal data received from DUT;

II. Implement reasonable technical and organisational measures;

III. Notify DUT of any data breach.

The Bidder indemnifies DUT against loss arising from unlawful data processing attributable to the Bidder.

6.3.2 SIGNATURE OF BIDDER FOR COMPLIANCE TO SPECIFICATION, DECLARATIONS AND OFFER

Name of Bidder	
Email address	
Contact numbers:	
Company Registration Number	
VAT Number (If applicable)	
Authorised Representative Name	
Capacity	
Central Supplier Database Reg No (If Applicable)	MAAA…… CSD UNIQUE NUMBER (36 digits)
Authorised signatory	
Date	

6.4 PART B – ACCEPTANCE (To be completed by DUT only if form of offer and bid is accepted)

By signing this Form of Acceptance, DUT accepts the Bidder's Offer subject to:

- Budget confirmation;
- Verification of compliance documents;
- Issuance of an official Purchase Order.

Acceptance is conditional upon:

- No material deviation;
- Confirmation of tax compliance;
- Compliance with DUT governance frameworks.

Accepted on behalf of:

Durban University of Technology

Name: _____

Designation: _____

Signature: _____

Date: _____

RFQ No: _____

Purchase Order No (to be issued): _____

ANNEXURES- DURBAN UNIVERSITY OF TECHNOLOGY

PURPOSE OF THIS ANNEXURE PACK

This Governance Annexure forms an integral part of all DUT RFQs issued.
The purpose is to:

- Strengthen procurement integrity
- Ensure compliance with DUT policy and DHET governance framework
- Protect the institution from unauthorised commitments
- Support UIFW prevention
- Enhance transparency and ethical procurement conduct

These Annexures is mandatory and non-negotiable.

ANNEXURE A - CERTIFICATE OF INDEPENDENT BID DETERMINATION

The Bidder certifies that:

1. The quotation has been independently determined.
2. No agreement exists with any competitor regarding:
    - Price
    - Market allocation
    - Submission or non-submission of quotation
3. The Bidder has not engaged in collusive or anti-competitive conduct.
4. The Bidder complies with the Competition Act 89 of 1998.

The Bidder acknowledges that false declaration may result in:

- Disqualification
- Contract termination
- Restriction from future procurement participation

Signature: _____

Date: _____

ANNEXURE B - UIFW (UNAUTHORISED, IRREGULAR, FRUITLESS & WASTEFUL EXPENDITURE) ACKNOWLEDGEMENT

The Bidder acknowledges DUT's internal financial governance framework aimed at preventing:

- Unauthorised expenditure
- Irregular expenditure
- Fruitless and wasteful expenditure

The Bidder confirms:

1. No work shall commence without a valid DUT Purchase Order.
2. No variation shall be implemented without written approval aligned to Delegation of Authority.
3. Services rendered without authorisation may not be paid.
4. The Bidder shall not rely on verbal instructions.

DUT shall not be liable for commitments made outside approved procurement processes.

Signature:_____

Date: _____

ANNEXURE C _ PROCUREMENT ETHICS AND CONDUCT DECLARATION

The Bidder confirms that:

- Neither the entity nor its directors are listed on any restricted supplier database.
- No director has been convicted of fraud or corruption related to procurement.
- The entity complies with ethical procurement practices.
- No attempt has been made to improperly influence DUT officials.

The Bidder acknowledges that DUT reserves the right to conduct due diligence screening.

Signature: _____

Date: _____

ANNEXURE D _ DUT CONFLICT OF INTEREST DECLARATION

RFQ No: _____

1. PURPOSE

To ensure transparency and compliance with Section 217 of the Constitution and DUT's governance frameworks, all bidders must declare any relationship or conflict of interest.

2. BIDDER DETAILS

Full Name of Bidder / Company: _____

Company Registration Number: _____

VAT Registration Number: _____

CSD Number: _____

Physical Address: _____

Contact Person: _____

Telephone: _____ Email: _____

3. EMPLOYMENT BY THE DUT OR THE STATE

Are you or any person connected with the bidder:

3.1 Employed by the State?

☐ YES ☐ NO

3.2 Employed by DUT?

☐ YES ☐ NO

If YES, provide details:

_____

_____

_____

_____

4. RELATIONSHIP WITH DUT EMPLOYEES OR COUNCIL MEMBERS

Do you or any director/shareholder/member have:

- Any family relationship with DUT employee?
  ☐ YES ☐ NO
- Any relationship with a person involved in evaluation of this process?
  ☐ YES ☐ NO

If YES, provide details:

_____

_____

_____

_____

_____

5. PRIOR BUSINESS WITH DUT

Have you or your directors conducted business with DUT in the past 12 months?

☐ YES ☐ NO

If YES, provide details:

_____

_____

_____

_____

_____

6. DIRECTORS / SHAREHOLDERS DETAILS

Full Name	ID Number	Tax Number	Employee Number (if applicable)

(Attach additional page if necessary)

7. DECLARATION

I, the undersigned, hereby declare that:

- The information furnished above is true and correct.
- I understand that failure to disclose conflicts may result in:
    - Disqualification;
    - Contract cancellation;
    - Recovery of damages;
    - Reporting to National Treasury.

Signature: _____

Name: _____

Position: _____

Date: _____