



Rujukan Kami: UTB/F.1/1.7/2026-2027

19 SYAWAL 1447H
08 APRIL 2026M

**Kepada:
Pengurus Syarikat**

Tuan/Puan,

BILANGAN SEBUTHARGA : TUTB/TEND/2026-2027/CREATES/02
KETERANGAN SEBUTHARGA : SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING AND USER TRAINING FOR A FULLY FUNCTIONAL FLOW REACTOR SYSTEM WITH CONTINUOUS DOSING OF RAW MATERIALS FOR RESEARCH, UNIVERSITI TEKNOLOGI BRUNEI.

Syarikat Tuan/Puan adalah dipelawa untuk menawarkan harga bagi perkara dinyatakan di atas dengan mengikut terma dan syarat yang ditetapkan seperti berikut:

1. Tawaran/Sebutharga hendaklah diisi dengan lengkap dan dihantar dalam sampul surat yang tertutup tanpa menunjukkan identiti pembekal kecuali **bilangan sebutharga, keterangan sebutharga, tarikh diiklankan dan tarikh tutup.**
2. Tawaran/Sebutharga hendaklah dihantar dan **terus dimasukkan ke dalam kotak sebutharga/tawaran** yang telah disediakan di Bahagian Kewangan, Pejabat Bendahari, 1F.32, Tingkat 1, Blok F, Universiti Teknologi Brunei, Lebuhraya Tungku, Gadong, BE1410, Negara Brunei Darussalam.
3. **TARIKH TUTUP TAWARAN/SEBUTHARGA** adalah tidak lewat dari **pada 21 APRIL 2026 SEBELUM JAM 2.00 PETANG**
4. Penghantaran sebutharga yang diterima **lewat dari tarikh dan masa** tutup tawaran **akan ditolak dan tidak akan dinilai.**
5. Merujuk **para 3.1.3**, Garispanduan Perolehan Kerajaan, Peraturan-Peraturan Kewangan 2022, pihak Syarikat Tuan/Puan adalah dikehendaki untuk menghadapkan dokumen-dokumen dan maklumat seperti yang disenaraikan dibawah ini. Pihak Syarikat hendaklah **menandakan** pada **checklist** sebagai pengesahan dokumen sudah disertakan dengan lengkap dan teratur. Jika dokumen tidak lengkap, tawaran/sebutharga dianggap tidak sah. **Antara dokumen dan maklumat yang diperlu disertakan adalah seperti berikut:**

Engaging Minds, Pioneering Growth

- 5.1 Salinan Sijil Pendaftaran Perniagaan / Sijil Pendaftaran Kontraktor dan Pembekal yang dikeluarkan oleh ABCI / Sijil Brunei Darussalam Medicines Control Authority (BCDMA) – jika berkenaan/jika diperlukan*
- 5.2 Pengesahan Jabatan Perkhidmatan Elektrik bagi perkakas elektrik yang berkenaan dan pekerja-pekerja yang akan melaksanakan kerja-kerja elektrik.
- 5.3 Senarai nama, jawatan dan gaji; jumlah; dan bilangan (%) pekerja tempatan dan pekerja asing hendaklah disertakan bersama.
- 5.4 *Material* yang akan digunakan dengan menyatakan senarai barangan, peratus (%) dan harga (\$) barangan tempatan digunakan serta peratus (%) dan harga (\$) barangan impot yang akan digunakan.
- 5.5 Salinan Sijil Pematuhan Akta Cukai (**Certificate of tax Compliance**) daripada Bahagian Hasil Kementerian Kewangan dan Ekonomi bagi syarikat yang berdaftar di bawah Akta Syarikat, *Chapter 39 (Sdn Bhd atau Berhad)*.
- 5.6 Salinan Sijil Pendaftaran Syarikat dan Nama-Nama Perniagaan yang dikeluarkan melalui *Corporate Registry System* di dalam *One Common Portal*.
- 5.7 Pengesahan pematuhan Akta Amanah Pekerja dan Perintah Pencen Caruman Tambahan 2009 dari **Tabung Amanah Pekerja** dengan menyatakan nombor Akaun Majikan dan senarai perkerja yang dicarumkan.
- 5.8 Borang Pengakuan Integriti Penender / **Integrity Pact** - *muat turun dari laman sesawang UTB: <https://www.utb.edu.bn/information/tender-and-quotation/>
- 5.9 **Quotation Form**
- 5.10 Salinan resit pembayaran
- 5.11 Borang Lampiran C
- 5.12 Borang Lampiran C1
6. Merujuk para 3.1.4, Garispanduan Perolehan Kerajaan, Peraturan-peraturan Kewangan 2022, pihak Syarikat Tuan/Puan hendaklah memastikan **jumlah yang dinyatakan adalah tepat dan harga tawaran di dalam Form of Tender adalah selaras dengan harga yang dinyatakan di dalam dokumen-dokumen tender** serta **jumlah dalam perkataan adalah sama dengan harga tawaran dalam angka**. Jika tidak sama, tawaran dianggap tidak sah.

7. Merujuk para 3.1.5, Garispanduan Perolehan Kerajaan, Peraturan-peraturan Kewangan 2022, pihak Syarikat Tuan/Puan adalah dimaklumkan mengenai dengan denda yang boleh dikenakan kepada penender iaitu dasar penegahan dari menyertai tawaran Kerajaan dan denda-denda lain jika ada.
8. Merujuk para 3.1.6, Garispanduan Perolehan Kerajaan, Peraturan-peraturan Kewangan 2022 pihak Syarikat adalah dimaklumkan bahawa **jika syarikat yang berjaya untuk mendapat tawaran mempunyai hutang dengan kerajaan**, maka syarikat berkenaan hendaklah bersetuju bagi **hutang-hutang berkenaan dibayar kepada Kerajaan melalui potongan bayaran perkhidmatan atau perbekalan yang ditawarkan**. Persetujuan itu hendaklah dimasukkan ke dalam Kontrak Perkhidmatan atau Perbekalan.
9. Merujuk para 3.1.7, Garispanduan Perolehan Kerajaan, Peraturan-peraturan Kewangan 2022, **semua cukai kastam dan withholding tax** hendaklah dibayar oleh pihak Syarikat Tuan/Puan.
10. Sila pastikan **cop syarikat** dan **tandatangan pengesahan** dibubuh pada setiap borang sebutharga / tawaran.
11. **Jika sekiranya Syarikat Tuan/Puan tidak dapat menawarkan harga (no quote) pada tarikh tutup yang dinyatakan di atas**, borang tawaran hendaklah **dikembalikan** ke PETI SEBUTHARGA/TAWARAN, BAHAGIAN KEWANGAN, PEJABAT BENDAHARI, UNIVERSITI TEKNOLOGI BRUNEI, TUNGKU HIGHWAY, BE1410, BRUNEI DARUSSALAM.
12. Pihak Universiti tidak semestinya terikat untuk menerima sebarang tawaran termurah atau lain-lain tawaran yang tidak munasabah.
13. Penghantaran barang-barang hendaklah sampai ke Universiti Teknologi Brunei **mengikut jadual penghantaran yang dinyatakan di dalam sebutharga**. Jika sekiranya pihak pembekal **gagal** menghantar barang-barang mengikut jadual penghantaran yang telah ditetapkan maka **tempahan akan dibatalkan**.
14. **Bagi sebutharga di bawah peruntukan UTB-Kerajaan Brunei Darussalam**. - Resit rasmi akan dikeluarkan oleh pihak UTB selepas Bahagian Kewangan. Pejabat Bendahari menerima **laporan BIBD** iaitu sekurang-kurangnya 24 jam setelah pembayaran dibuat oleh pihak vendor.
15. **Bagi sebutharga di bawah peruntukan TABUNG UTB** - resit rasmi akan dikeluarkan oleh pihak TABUNG UTB selepas pembayaran telah dibuat oleh pihak vendor dan disahkan oleh Bahagian TABUNG UTB, Pejabat Bendahari.
16. Sebarang pertanyaan mengenai keterangan sebutharga, sila **hubungi pihak pengguna** melalui alamat emel yang dinyatakan pada borang sebutharga (muka surat akhir).

Sekian.

TERMS AND CONDITIONS OF TENDERING (FOR QUOTATION WORKS)

1. Before tendering, the tenderer shall visit the site where the Works are to be carried out and shall also carefully examine the relevant Terms and Conditions of Contract, Drawings, Specification and all other accompanying schedules, etc.

If there is any ambiguity in or discrepancy between any of the documents, he / she should refer the matter to the Contract Administrator (C.A.), Building Services Department, Public Works Department. The C.A.'s decision shall be final and binding upon the Contract.

On tendering, the tenderer shall be deemed to have examined the documents referred to above and shall be bound by the terms and conditions therein.

2. Every tenderer must submit together all documents listed below and this requirement shall be strictly adhered to prior to any consideration :-
 - (a) Valid Tenderer's Registration Certificate from the Ministry Of Development.
 - (b) Business Enactment Act Section 16 & 17.
 - (c) The Tender Form **MUST be signed by the Owner, or the Director of Shareholder(s) of the Company** stating their post and stamped with the Company's Official seal as detailed in the Business Enactment Act Section 16 & 17 / or the tenderer's Registration Certificate from the Ministry of Development.
 - (d) The address indicated must be detailed as in the Business Enactment Act Section 16 & 17 / and/or Tenderer's Registration Certificate from the Ministry Of Development. Any changes to the above must be officially referred to the Registrar of Companies and Business Names and a copy must be submitted to this department.

Tender documents must be duly completed, signed and dated. Any tender which is incomplete or unsigned will render the tender to be rejected.

3.
 - (a) Tenders and documents in connection therewith as specified above , must be delivered to the place at or before the time specified.
 - (b) In the case of the tender not being delivered by hand, the tenderer must arrange for his / her tender and other documents to be posted in time to reach the stipulated place by not later than the time stated.
 - (c) In no case will the Government be responsible for any expense or loss incurred by a tenderer in the preparation of this tender.

Tenders shall remain valid for **6 MONTHS** from the final date for submission of the tenders and no tenderer may withdraw his/her tender within that period. The Government reserves the right to extend this period if deemed necessary provided that such extension of the tender validity period shall have the written consent of the tenderers.

4. The Government does not bind itself to accept the lowest and/or any tender and no reason will be given for rejecting any tender thereof.
5. Every correspondence to be given to a tenderer may be posted to the tenderer's address in the tender and such posting shall be deemed good and legally binding in service of such correspondence.
6. The tender shall be made on the basis of the rates in the tender documents being firm and not subject to any adjustment with variations in quantities.
7. The tender fee shall be **B\$10.00 ***.
8. No unauthorised alteration or use of 'blanco' in the tender documents is allowed, or the tender may be rejected. Any errors are to be struck off and initialled.
9. Non-compliance with the above terms and conditions in any respect may render the tender liable to be rejected.
10. The tender must be done in the official printed tender forms which is printable and downloaded from FINANCE SECTION, UNIVERSITI TEKNOLOGI BRUNEI, NBD via website link <https://www.utb.edu.bn/information/tender-and-quotation/>
The completed tender documents are to be lodged on or before 02.00 PM on 21 APRIL 2026 in a sealed enveloped addressed to :-

QUOTATION (QTN BOX)

**FINANCE SECTION, BURSAR'S OFFICE
UNIVERSITI TEKNOLOGI BRUNEI,
NEGARA BRUNEI DARUSSALAM.**

The top part of the sealed envelope must be written stating the following :-


Quotation No. : TUTB/TEND/2026-2027/CREATES/02 Quotation Closing Date : 21 APRIL 2026

Title : SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING AND USER TRAINING FOR A FULLY FUNCTIONAL FLOW REACTOR SYSTEM WITH CONTINUOUS DOSING OF RAW MATERIALS FOR RESEARCH, UNIVERSITI TEKNOLOGI BRUNEI.

* **Delete As Necessary**



**UNIVERSITI TEKNOLOGI BRUNEI
NEGARA BRUNEI DARUSSALAM**

	1. _____
	2. _____
	3. _____
FOR OFFICIAL USE ONLY.	

Quotation For : SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING AND USER TRAINING FOR A FULLY FUNCTIONAL FLOW REACTOR SYSTEM WITH CONTINUOUS DOSING OF RAW MATERIALS FOR RESEARCH, UNIVERSITI TEKNOLOGI BRUNEI.

Quotation No : TUTB/TEND/2026-2027/CREATES/02 **Closed On** : 21/04/2026 **Receipt No.** : _____

PART A - AGREEMENT

1.0 On behalf of _____
I, the undersigned, agree to carry out the above Works/Service/Supply* for a sum of B\$ _____
(Brunei Dollars _____)
within a period of _____ Days / Weeks / Months* in accordance with the terms and conditions below.

2.0 Name & Signature : _____
As Owner /Director* (_____)

2.1 IC No. : _____

2.2 Name & Signature : _____
of Witness (_____)

2.3 IC No. : _____

2.4 Address : _____

2.5 Telephone No. : _____ Fax No. : _____ E-mail : _____

2.6 Date : _____

Company Stamp

FOR OFFICIAL USE ONLY.

3.0 On behalf of the Brunei Government, I accept your offer to carry out all/ items* _____
of the above for a sum of B\$ _____ (Brunei Dollars _____)
within a period of _____ Days / Weeks / Months* in accordance with the terms and conditions below.

4.0 _____
(_____)

4.1 _____
For Director General of Public Works

4.2 Name & Signature : _____
of Witness (_____)

4.3 Address : _____

4.4 Telephone No. : _____ Fax No. : _____ E-mail : _____

4.5 Date of Contract : _____

5.0 The Contract Administrator is : _____

6.0 The Starting Date is on : _____

Department Stamp

* Delete as necessary

PART B - TERMS OF QUOTATION

1.0 BASIS OF QUOTATION, OVERALL OBLIGATIONS AND ADMINISTRATION

1.1 Overall Obligations of the Government:

- 1.1.1 To provide access at proper times for the Contractor to do his work.
- 1.1.2 To provide all information and facilities stated in this contract to enable the Contractor to do his work.
- 1.1.3 To pay the Contractor as provided in this Contract.
- 1.1.4 To assign a Contract Administrator to administer this Contract.
- 1.1.5 May take out or renew insurances referred to in Clause 1.2.4 below if the Contractor fails to do so.

1.2 Overall Obligations of the Contractor:

- 1.2.1 To finish the Works to the quality standards provided in this Contract within the timeframes and completion period provided in this Contract.
- 1.2.2 To cooperate with all other Contractors working on the project and not to disrupt them or cause damage to them.
- 1.2.3 To provide a collateral warranty containing a similar obligation as under this Contract directly to a third party if requested by the Contract Administrator.
- 1.2.4 To provide and maintain valid Contractor's all risks insurance policy at all times.

1.3 Instructions & Certifications

- 1.3.1 The Contract Administrator can issue instructions and certifications including job orders to the Contractor on anything relating to the Works.
- 1.3.2 All instructions, certifications and job orders must be in writing, dated and clearly identified as Contract Administrator's instructions, certifications or job orders.
- 1.3.3 The Contractor must comply with all instructions, certifications and job orders issued by the Contract Administrator.
- 1.3.4 The Contract Administrator may arrange others to complete the Works if the Contractor fails to comply with Clause 1.3.3, and the Contractor shall pay for all extra costs incurred.

2.0 QUALITY, HEALTH AND SAFETY

2.1 Quality

- 2.1.1 The Contractor must do his work based on the documents referred to in this Contract and other instructions and information given to him by the Contract Administrator.
- 2.1.2 If any of the Works is not done according to this Contract or if there is any other breach of this Contract by the Contractor, the Contract Administrator must inform the Contractor of the shortfall(s). The Contractor must rectify the shortfall(s).
- 2.1.3 If the Contractor does not rectify the shortfall(s), The Contract Administrator may arrange others to rectify the shortfall(s). The Contract Administrator can also certify either:
 - (a) The cost of rectifying such shortfall(s); or
 - (b) The reduced value of the completed Works due to such shortfall(s)as provided in the payment certification clause.
- 2.1.4 The Contract Administrator can continue to do this throughout the project and during the Defects Liability Period (as stated in the Appendix) after the Contract Administrator confirms the Works is complete as provided in the completion clause.

2.2 Variations To Work

- 2.2.1 The Contract Administrator can issue instructions to vary the Works to be done.
- 2.2.2 If the Contract Administrator instructs the Contractor to vary any of the Works and there is a financial impact, the Contract Administrator must certify the value of the variation work as provided in the payment certificate clause.
- 2.2.3 The Contract Administrator must value the variation work using the Summary of Works rates. If there are no Summary of Works rates then using schedule of rates or if neither are available using fair market rates.
- 2.2.4 This shall be done in a written certificate clearly identified as Variation Order Certificate.

2.3 Health and Safety

- 2.3.1 The Contractor must keep the site clean and safe at all times.
- 2.3.2 The Contractor must comply with all laws and regulations relating to Health and Safety Act, if any.

3.0 TIME OBLIGATIONS

3.1 Starting, Progress and Finishing

- 3.1.1 If not stated in this Contract, the Contract Administrator will inform the Contractor when to start work in writing.
- 3.1.2 The Contractor must progress with the Works in a regular and diligent manner.
- 3.1.3 The Contract Administrator can instruct the Contractor to stop and restart at any time.
- 3.1.4 The Contractor must finish all the Works within the deadlines stated in this Contract or as instructed by the Contract Administrator.

3.2 Adjusting Time for Completion

- 3.2.1 If the Government or Contract Administrator or anyone within either of their responsibility or control (which includes other contractors on site), or anything beyond the Contractor's control, disrupts the Contractor from finishing within the completion period, the Contract Administrator must assess the impact of this disruption on the Contractor's work to be done.
- 3.2.2 If any Completion Date is affected the Contract Administrator must adjust the Completion Date.
- 3.2.3 This must be done in a written certificate clearly identified as Extension of Time Certificate.

3.3 Completion

- 3.3.1 When the Contractor practically completes all the Works, he may inform the Contract Administrator stating he has completed.
- 3.3.2 The Contract Administrator must decide when the Works was actually practically completed by the Contractor.
- 3.3.3 This decision must be in a written certificate clearly identified as Certificate of Practical Completion.
- 3.3.4 The Contract Administrator must decide when all obligations of the Contractor are fully discharged.
- 3.3.5 This decision must be in a written certificate clearly identified as a final completion certificate.
- 3.3.6 This must be done after the end of Defects Liability Period (as stated in the Appendix) or when the Contractor has rectified all the shortfall(s) including Works that is not according to this Contract and any other breach of Contract by the Contractor identified by the Contract Administrator, whichever is later.

3.4 Delayed Completion

- 3.4.1 If the Contractor does not finish within any deadline he shall pay Liquidated and Ascertained Damages due to the delay to the Government as provided in the payment certification clause.
- 3.4.2 Liquidated and Ascertained Damages is calculated for delay between when the Contractor should have completed the Works and when he actually completes the Works.

4.0 PAYMENT CERTIFICATION

4.1 Claims and Payment Certificate

- 4.1.1 The Contractor must submit a claim for the Works done before payment certificate can be issued.

4.2 Contents of Payment Certificate:

- 4.2.1 The payment certificate must include the following:
- 4.2.2 Add the following:
 - (a) Cumulative value of the Works done. This is valued based on Summary of Works rates or schedule of rates, if any. If none, then valued based on fair market rates.
 - (b) Value of variation work properly instructed by the Contract Administrator and properly done by the Contractor.
- 4.2.3 Deduct the following:
 - (a) Liquidated and Ascertained Damages for delayed completion. Liquidated and Ascertained Damages is calculated for delay between when the Contractor should have completed the Works and when he actually practically completes the Works.
 - (b) The value of any shortfall(s) due to work done according to this Contract or due to any other breach of this Contract by the Contractor which the Contract Administrator has informed the Contractor. If the Contractor does not rectify the shortfall(s) the Contract Administrator can certify either:
 - (i) The cost of rectifying such shortfall(s) by others; or
 - (ii) The reduced value of the completed Works due to such shortfall(s) as stated in the Appendix.
 - (c) A percentage of the sum of total additions above will be retained (as the Retention Sum) and released after the end of Defects Liability Period or when the Contractor rectified all the shortfall(s) including work that is not done according to this contract and any other breach of contract by the Contractor identified by the Contract Administrator.

4.2.4 The Net Amount Payable is the amount the Government must pay to the Contractor. This is calculated by:

- (i) Adding the total under additions above;
- (ii) Deducting the total of all deductions above; and
- (iii) Deducting the cumulative amount certified previously.

4.2.5 The Contract Administrator may deduct any monies owed by the Contractor to the Government under this or any contract from the Contractor's payments.

5.0 TERMINATION OF CONTRACT

5.1 If the Contractor:

- (a) Suspends the Works before completion without any reasonable cause;
- (b) Fails to proceed with the Works within the time stated in the Contract Administrator's instructions;
- (c) Fails to comply with the Contract Administrator's instructions;

for fourteen (14) days after a notice sent to the Contractor, the Contract Administrator can determine this contract by a written notice.

5.2 If the Contractor:

- (a) Becomes bankrupt; or
- (b) Goes into liquidation; or
- (c) Is guilty of any offence under the Prevention of Corruption Act (Chapter 131) or an offence under sections 161 to 165 or 213 to 215 of the penal code (Chapter 22).

this Contract is terminated by a written notice.

5.3 In either (5.1) or (5.2) above, the Contract Administrator may complete the Works by other ways and the Contractor shall pay for all extra costs incurred.

PART C - APPENDIX

1.0	Completion Date: (If not stated, to be instructed by the Contract Administrator. If more than one completion period, identify the scope of Works for each completion period)	<u>04</u> Weeks
2.0	Liquidated and Ascertained Damages (LAD): (If none stated, then the Contract Administrator may certify a reasonable sum as compensation for delay)	<i>10% dari nilai baki barangan atau perkhidmatan</i>
3.0	Shortfalls / Defects Liability Period: (If none stated, SIX (6) MONTHS from the date of completion)	<u>N/A</u> Months
4.0	Retention Sum	<u>N/A</u> % of the Contract Sum

TARIKH TUTUP/
 CLOSING DATE: **21 APRIL 2026 / 2.00 PETANG**

BIL. SEBUTHARGA/QUOTATION NO.: **TUTB/TEND/2026-2027/CREATES/02**

TARIKH / DATE: 08 APRIL 2026

TITLE: SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING AND USER TRAINING FOR A FULLY FUNCTIONAL FLOW REACTOR SYSTEM WITH CONTINUOUS DOSING OF RAW MATERIALS FOR RESEARCH, UNIVERSITI TEKNOLOGI BRUNEI.

SECTION 1: USER REQUIREMENTS

ITEM	DESCRIPTION	Y	N	REMARKS
1	MAIN REACTOR BODY			
1.1	Material of Construction: Hastelloy C276			
1.2	Reactor suitable for lab scale reactions			
2	OPERATING CONDITIONS			
2.1	Temperature Range: -20 °C to 200 °C			
2.2	Flow Rate: 0.5 mL/min to 25 mL/min (continuously adjustable)			
2.3	Design Pressure: minimum 25 bar			
2.4	pH Range: 0 to 14			
2.5	Reactants: Liquid phase			
2.6	Accommodate slurry reactions containing solid catalyst up to 5 wt%			
3	SYSTEM CONFIGURATIONS			
3.1	Continuous flow reactor setup with modular reaction coils and integrated flow channels designed for corrosion and temperature resistance.			

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3.2	Pulsation-free dosing pumps (dual head or multi-channel) for precise, stable flow control.			
3.3	Reactor volume designed to ensure sufficient residence time for reactions under above conditions.			
3.4	Capable of handling heterogeneous reaction media (solid-liquid or multiphase).			
4	HEATING AND COOLING ARRANGEMENTS			
4.1	Integrated recirculating heating and cooling unit capable of maintaining reaction temperatures between -20 °C and 200 °C with ±1 °C accuracy.			
4.2	Inclusive of temperature feedback control, insulated piping, and quick-connect couplings.			
5	DOSING SYSTEMS			
5.1	High-precision dosing pumps minimum 03 nos			
5.2	Flow rate range of 0.5 mL to 25 mL with control accuracy within ±1%.			
5.3	Materials: Hastelloy C276 or equivalent wetted parts.			
5.4	Gasket MOC: FFKM & Teflon or equivalent			
5.5	Programmable flow operation (continuous or pulsed).			
6	PRESSURE CONTROL SYSTEM (BACK PRESSURE REGULATOR)			
6.1	Material of Construction: <ul style="list-style-type: none"> - Body: SS316 or equivalent - Manifold: C276 or equivalent - Piston C276 or equivalent - Valve seat: PTFE or equivalent - O-ring: FFKM or equivalent 			
6.2	Design pressure: Minimum 30 bar			
6.3	Working Temperature range: -30 °C to +75 °C			
6.4	Flow capacity: Minimum Cv = 0.1			
6.5	Digital or analog pressure indicator integrated into the control system.			

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Quotation No.: TUTB/TEND/2026-2027/CREATES/02

6.6	Safety relief valve for overpressure protection.			
7	REACTION CHEMISTRY APPLICATIONS The system is suitable but not limited to the following reactions.			
7.1	1. Esterification / Transesterification			
7.2	2. Nitration			
7.3	3. Amination / Amidation			
7.4	4. Acetylation			
7.5	5. Condensation			
7.6	6. Hydrolysis			
7.7	7. Coupling reactions			
8	CONTROL AND DATA MANAGEMENT SYSTEM			
8.1	Computer-based control interface for real-time monitoring and logging of flow rate, temperature, pressure, and reaction time.			
8.2	Software should enable programmed reaction sequences, parameter control, and data export.			
8.3	Include PC with licensed control software and printer for data recording.			
9	ACCESSORIES (STANDARD AND ESSENTIAL)			
9.1	Complete set of connection tubing, fittings, gaskets, ferrules, and valves, compatible with high-pressure and corrosive systems.			
9.2	Feed reservoirs, collection vessels, and calibration tools.			
9.3	Pressure gauges, temperature sensors, and sampling ports integrated.			
9.4	Maintenance toolkit for field service.			
10	UTILITY REQUIREMENTS			



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10.1	Power supply: 230 V, 50 Hz, single phase; Max current: 16 A			
10.2	COOLING UNIT			
10.2.1	Temperature range: -20 °C to 25 °C			
10.2.2	Heating capacity: Minimum 2000 W			
10.2.3	Cooling capacity at +20 °C: Minimum 1000 W			
10.2.4	Temperature Resolution: ±0.1 °C			
10.2.5	Bath Capacity: Minimum 9 L			
10.2.6	Pump pressure: up to 500 mbar			
10.2.7	Pump flow rate: Up to 16 L/min			
10.3	HEATING UNIT			
10.3.1	Temperature range: RT +10 °C to 200 °C			
10.3.2	Heating capacity: Minimum 3000 W			
10.3.3	Temperature Resolution: ±0.1 °C			
10.3.4	Bath Capacity: Minimum 9 L			
10.3.5	Pump pressure: up to 500 mbar			
10.3.6	Pump flow rate: Up to 16 L/min			
10.4	Laboratory compressed air (optional) for valve actuation.			
1111.1	COMMISSIONING AND TESTING			
11.1	On-site installation and performance testing by qualified engineer.			
11.2	Training session for at least two users, covering operation, maintenance, safety, and reaction setup.			
11.3	Supply of user manual, maintenance guide, and operation certificate.			

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Quotation No.: TUTB/TEND/2026-2027/CREATES/02

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12	SAFETY FEATURES			
12.1	Automatic system shutdown in case of overpressure or overheating.			
12.2	Emergency stop switch, safety interlocks, and overload protection.			
12.3	Leak-proof tubing and fittings with chemical compatibility certification.			
13	WARRANTY AND SUPPORT			
13.1	Minimum 2-year comprehensive warranty (covering hardware, software, pumps, and chiller)			
13.2	After-sales support for at least 3 years.			

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SECTION 2: PRICE PROPOSAL

TITLE: SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING AND USER TRAINING FOR A FULLY FUNCTIONAL FLOW REACTOR SYSTEM WITH CONTINUOUS DOSING OF RAW MATERIALS FOR RESEARCH, UNIVERSITI TEKNOLOGI BRUNEI.

BIL. NO.	KETERANGAN DESCRIPTION	KUANTITI QUANTITY	TAWARAN OFFER	KADAR/RATE (B\$)	JUMLAH/ TOTAL AMOUNT (B\$)
1	<p><u>Integrated Flow Reactor System</u></p> <p>Supply, delivery and installation of Complete Flow Reactor System as per user requirement inclusive of all necessary accessories, fittings and associated plumbing and electrical works.</p>	1 LOT			
2	<p><u>Commissioning and Training</u></p> <p>Provision of qualified engineer/personnel for on site installation and testing. Provision of training session for two (02) users covering operation, maintenance, safety and reaction setup. To handover to client user manual, maintenance guide and operation certificate.</p>	1 LOT			
3	<p><u>Warranty & Support</u></p> <p>Provision of 2-year comprehensive warranty covering hardware, software, pumps and chillers and after sales support for 3 years.</p>	1 LOT			
TOTAL:					

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SECTION 3: PROCUREMENT AND TECHNICAL SPECIFICATION					
COUNTRY OF ORIGIN				BRAND & MODEL:	
YEAR INTRODUCED TO MARKET					
LEAD TIME FOR DELIVERY					
AUTHORIZED DISTRIBUTOR: (AUTHORIZED DISTRIBUTOR LETTER ATTACHED)		APPOINTED BRUNEI DISTRIBUTOR		COMPANY NAME:	
		PROCURE FROM OVERSEAS AUTHORIZED DISTRIBUTOR		COMPANY ORIGIN:	
DETAILED BROCHURE INCLUDED		Y		N	Please tick (/) or specify where appropriate
MAIN POWER SUPPLY:		220V-240V, 50 Hz, Single Phase	POWER ADAPTER/CHARGER OUTPUT RATING:		
		OTHERS:	EQUIPMENT AMBIENT OPERATING TEMPERATURE RANGE:		
NUMBER OF TECHNICAL SUPPORT (ENGINEER/TECHNICIAN) Please provide training or certification for locals who is trained/certified				LOCAL	
				OVERSEAS	NEAREST LOCATION:
DIMENSIONS AND WEIGHT OF MAIN UNIT:				mm, inch	kilograms (kg), pounds (lb)
EQUIPMENT WHOLE LIFE TIME SUPPORT:	The supplier shall ensure that spare parts for the equipment are available for a minimum of 8 years after installation, with the support period extending beyond the expected lifecycle of the equipment. No of years: _____ (Please specify)				

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SECTION 4: WARRANTY UNDERTAKING FORM

Tenderer, on behalf of the manufacturer, acknowledged and agrees that when equipment is under Warranty period of two (2) years, must cover the scope of comprehensive warranty at no additional cost:

- Warrants the supplied equipment and its accessories to be in good condition, in working order and free from defects to the extend such equipment do not comply with specifications, under normal use for the warranty period. The scope of warranty covers to its maximum extent permitted by applicable law.

- Inclusive of Comprehensive Maintenance Service (see below)

- **Exchange warranty;** Providing replacement units or OEM parts for:

A. Warranty against defects – Manufacturing defects or Equipment malfunction resulted from mechanical, electrical or software failure during commissioning or within the first six (6) months of use

B. Faulty workmanship or unsatisfactory condition during delivery or commissioning

C. If a unit or accessory is deemed used item or refurbished item (not a new unit) by the end-user

COMPREHENSIVE MAINTENANCE SERVICE

Tenderer must provide a comprehensive maintenance during the warranty period. The scope for **Comprehensive Maintenance Service** consists of:

A. Inspection Maintenance (IM)

B. Corrective Maintenance (CM) and

C. Planned Preventive maintenance (PPM)

D. Breakdown call

EXCLUSION FROM WARRANTY

UTB understand that the following circumstances are not covered in the warranty and Tenderer may quote for repair and subject to UTB approval:

- Unauthorized modifications - an alteration or repair by anyone other than the Manufacturer or Authorized agent during warranty period.
- Accidental damage or problems caused by negligence or mishandling, subject to appropriate justification by both parties.
- Vandalism and Natural disasters

Tenderer may also attach a list of terms to be excluded from the warranty for UTB consideration and notification

TENDERER ACKNOWLEDGMENT ON WARRANTY UNDERTAKING FORM PAGE 1 AND PAGE 2

COMPANY CHOP & AUTHORIZED SIGNATURE
 NAME:
 POSITION:

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A. Inspection Maintenance (IM)

- Must be conducted every six (6) months starting from commissioning date
- Issuance of IM Report to End User
- Physical hardware checks on main unit/system and all supplied accessories
- System, Software and Application check-up – Update to latest version when available
- Performance and Functional testing
- Servicing/Cleaning of dust

B. Corrective Maintenance (CM):

- During warranty, tenderer must rectify issues arise from any mechanical, technical or software faulty as soon as it is reported including any cost of breakdown repairs.
- Repair and replacement of parts with new, quality, and compatible parts within seven (7) working days after receipt of reported problem by end user.
- Post repair tests with reports to ensure Electrical Safety Test, Performance Test and Functional Test is conducted.

C. Planned Preventive Maintenance (PPM):

- One time yearly Planned Preventive Maintenance (PPM) according to Manufacturer’s Preventive Maintenance Guideline, including replacements of PM Kits, any relevant parts to prolong equipment lifespan AND provide a one-time battery replacement for all batteries, either in the last year of the warranty or, if needed, in the year before
- Provide Maintenance Due Date stickers after each PPM or booklet for easy monitoring

D. Breakdown Call

Corrective Maintenance - Response time: Response time are time taken from initial request made by the user to the time technical personnel physically present to assess the request and update status.

Performance Standard: Within 3 working days

Corrective Maintenance – Resolution Time: Time between fault report and restoration of equipment functionality.

Performance Standard: Within 7 working days

- Attend to resolve any breakdown call after receipt of reported problem by end user preferably during office hours, else after office hours or public holidays (only if it is necessary and urgent)

- Downtime: Not more than 7 days after receipt of reported problem by end user

- If Downtime is expected to be more than 7 days, Tenderer must notify formally to end user through email or letter immediately indicating the reason of delay with estimation of:

A. Estimated time of parts to arrive and

B. Expected no of days for repair completion

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- The downtime permitted after the first 7 working days with notification, should not be more than 10 working days or else, a penalty fee of BND\$50 per day per unit will be charge after the 10th day

Note:

1. For inquiries, please email: manickam.sivakumar@utb.edu.bn (HP:8291925)
2. Method of Payment: **Online bank transfer to UTB-TABUNG PAYMENT**
 - Proof of payment must be submitted to payment.info@utb.edu.bn, cc hidayah.rosli@utb.edu.bn
 - Receipt will be issued after payment has been verified by UTB Finance section
3. Please attached brochure on offered items.
4. Copies of Registration of Business Certificate must be enclosed with the submitted quotation.
5. For company registered under Companies Act, Chapter 39 (Sdn Bhd or Berhad), a valid Copy of Certificate of Tax Compliance 'COTC' certified by Revenue Division, Ministry of Finance and Economy must be enclosed with the submitted quotation. *Failure to submit COTC may lead to your quotes not considered for assessment by user.

Company Name:

Contact Name:

Quotation Validity (minimum 06 months) :

Contact Tel:

Delivery Period (04 weeks after receiving PO):

Designation:

Warranty: As per stated in section 2 (item 3)

Email address:



LAMPIRAN 'C'

SURAT PENGESAHAN

PENENDER / PEMBORONG / KONTRAKTOR / PENGUSAHA / PEMBEKAL MEMILIKI PREMIS
PERNIAGAAN / PREMIS PERNIAGAAN

Nama syarikat: _____

Alamat premis perniagaan: _____

Poskod: _____

No. telefon pejabat / premis pejabat: _____

No. faks pejabat / premis perniagaan: _____

No. telefon bimbit: _____

BIL.	NAMA PEMILIK SYARIKAT	BILANGAN KAD PINTAR	WARNA	BANGSA
1				
2				
3				
4				
5				

Nama Pengurus: _____

Bangsa: _____ Bil. kad pintar: _____ Warna: _____

No. telefon: _____

Sukacita memaklumkan bahawa segala keterangan di atas adalah benar.

[_____]

Tarikh: _____



PENGESAHAN UNTUK DIISIKAN OLEH PEMBEKAL / PEMBORONG

NAMA SYARIKAT : _____

ALAMAT SYARIKAT : _____

BORANG SENARAI PROJEK-PROJEK / PEMBELIAN / PEROLEHAN / PEMBEKALAN / PEMELIHARAAN / PEMBAIKAN / PERKHIDMATAN-PERKHIDMATAN YANG SEDANG DILAKSANAKAN DAN YANG TELAH DILAKSANAKAN.

BIL.	TAJUK PROJEK	
	SEDANG DILAKSANAKAN	TELAH DILAKSANAKAN

TANDATANGAN : _____

NAMA PEMILIK SYARIKAT /
KETUA PEGAWAI EKSEKUTIF
(CEO) / PENGARAH : _____

TARIKH : _____

COP RASMI SYARIKAT