



UNIVERSITI
BRUNEI DARUSSALAM

**UNIVERSITI BRUNEI DARUSSALAM
JALAN TUNGKU LINK GADONG BE 1410
NEGARA BRUNEI DARUSSALAM**

TENDER : UBD/E8/005/2024 – [G]

FOR

THE SUPPLY, DELIVER, INSTALL, COMMISSION, TEST, AND CONDUCT END-USER TRAINING OF ONE (1) UNIT OF BENCHTOP 80MHZ NMR WITH THREE (3) YEAR PREVENTIVE MAINTENANCE SERVICES FOR THE FACULTY OF SCIENCE, UNIVERSITI BRUNEI DARUSSALAM

- Advertise Date** : 18th November 2024 (Monday)
20th November 2024 (Wednesday)
- Closing Date** : 3rd December 2024 (Tuesday)
2.00 P.M.
- Tender Fee** : BND \$ 35.00
- Addressed** : Pengerusi
Lembaga Tawaran Kecil, Kementerian Pendidikan

Blok A, Tingkat 1, Bangunan (Lama)
Kementerian Pendidikan
Jalan Lapangan Terbang Lama Berakas BB3510
Bandar Seri Begawan, Negara Brunei Darussalam
- Submission** : Peti Tawaran
Lembaga Tawaran Kecil, Kementerian Pendidikan

Bahagian Perkhidmatan Kewangan Dan Pembekalan
Pusat Perkhidmatan Setempat "One Stop Centre"
Lantai Bawah, Blok "C", Bangunan (Lama)
Kementerian Pendidikan
Jalan Lapangan Terbang Lama Berakas BB3510
Bandar Seri Begawan, Negara Brunei Darussalam

PERINGATAN

- [1] Harga barang-barang yang dimasukkan dalam borang tawaran hendaklah termasuk perbelanjaan menghantar alat-alat dan keperluan-keperluan tersebut ke Universiti Brunei Darussalam, Jalan Tungku Link, Gadong BE 1410, Negara Brunei Darussalam.
- [2] Tiap-tiap satu harga barang-barang yang dimasukkan dalam borang tawaran hendaklah juga termasuk harga C.I.F. dan cukai kastam [custom duty].
- [3] Salinan Sijil Pendaftaran Perniagaan dan ***Tax Compliance*** yang masih sah (bagi syarikat yang berdaftar di bawah "Sdn Bhd") hendaklah disertakan bersama.
[Bab 16 dan Bab 17]
- [4] Semua barang-barang yang akan dibekalkan di Universiti Brunei Darussalam, pihak syarikat hendaklah menyatakan **tempoh sahlaku tawaran, tempoh pembekalan, tempoh waranti** dan **lain-lain borang yang perlu diisikan** seperti borang yang dilampirkan bersama tawaran berkenaan. Kegagalan pihak syarikat dalam menyatakan butiran dalam mengikuti sebarang tawaran berkenaan akan dikira ditolak [disqualified].
- [5] Segala kehendak dalam borang ini mestilah ditulis dengan betul dan terang, jika tidak permohonan tawaran ini tidak akan diterima dalam senarai tawaran.
- [6] Sila alamatkan/ ditujukan kepada:

**PENGERUSI
LEMBAGA TAWARAN KECIL,
KEMENTERIAN PENDIDIKAN**

**BLOK A, TINGKAT 1, BANGUNAN (LAMA)
KEMENTERIAN PENDIDIKAN
JALAN LAPANGAN TERBANG LAMA BERAKAS BB3510
BANDAR SERI BEGAWAN
NEGARA BRUNEI DARUSSALAM**

TENDER REF. UBD/E8/005/2024 – (G)

SPECIFICATION FOR A BENCHTOP 80 MHz NMR

1. SCOPE OF WORK

The supply, deliver, install, commission, test, and conduct end-user training of one (1) unit of BENCHTOP 80MHz NMR with three (3) year preventive maintenance services for the Faculty of Science, Universiti Brunei Darussalam.

2. SPECIFICATION OF A BENCHTOP 80MHz NMR

| NO. | ITEM DESCRIPTIONS AND SPECIFICATION |
|-----|--|
| 1. | Benchtop 80 MHz NMR (1H, 19F and 13C) |
| | - 2 Tesla Magnet |
| | - Resonance Frequency 80 MHz |
| | - NMR Analysis on 1H, 19F and 13C – 3 nuclei on one single system switched by software only. No need for manual tuning and matching. |
| | - For best resolution in benchtop FT-NMR class with a Line width < 0.4 Hz at 50% Peak height and Line width < 15 Hz at 0.55% Peak height and Line width < 30 Hz at 0.11% Peak height. |
| | -Spectral Resolution (Linewidth): |
| | @50% < 0.4 Hz |
| | @0.55% < 16 Hz |
| | - 1H Sensitivity (dual channel): Signal: Noise Ratio of 200:1 for 1% Ethylbenzene (Single Scan) |
| | - Operating Temperature Range: 18° C to 28° C (65° F to 82° F) |
| | - Dimensions: 58 x 43 x 40 cm (23" x 17" x 16") |
| | - Weight: 72.5 kg (160 lb), Instrument weight: not more than 73 kg, Dimensions: 58 x 43 x 40 cm, 1 Compartment only! |
| | - Stray Field: < 2 G all around system |
| | - External lock (no requirement for deuterated solvents) |
| | - Uses 5mm NMR tubes |
| | - Voltage Requirement: 100-240 VAC, 50/60 Hz |
| | |
| | Includes Spin solve permanent software license with the following protocols: |
| | - 1D Proton (1H) with F- and C-Decoupling |
| | - T1 and T2 Relaxation |
| | - 2D COSY, TOCSY, ROESY and JRES |
| | - 1D Fluorine with H-Decoupling |
| | - 2D F-COSY, F-JRES, and HF-COSY |
| | - 1D Carbon NOE with H- and F-Decoupling |
| | - DEPT spectral editing with H-Decoupling |
| | - APT with H-Decoupling |
| | - 2D HSQC, HSQC-ME, HMQC, HMBC, and HETCOR |
| | - Reaction Monitoring |
| | - Advanced Autos him |
| | Unlimited amount of Spinsolve software licenses included (future software updates free of charge) |

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|------------|--|
| | Accessories included: |
| | - Sample Holder x 2 |
| | - Sealed Shim Sample |
| | - Depth Gauge x 1 |
| | - Pack of 100 NMR Tubes - Standard 5 mm, thick walled, economic |
| | - Manual |
| | - Mestrelab evaluation Mnova software for advanced data processing |
| | - Evaluation Licence valid for 1 year |
| | - Industrial Licence |
| | - Single Computer License |
| | |
| 1.1 | - UPS 3KVA |
| 1.2 | - Computer & Printer |
| 1.3 | - Autosampler up to 20 samples |
| 1.4 | - Reaction Monitoring Hardware Kit with Glass Flow Cell (RMK2) |
| | |
| 2. | Three (3) Years Preventive Maintenance for BENCHTOP 80MHz NMR |
| 3. | Installation, testing, commissioning and end-user training for the above unit by Oversea Engineer |