



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

TENDER : UBD/E8/001/2025 – [G]

FOR

**THE SUPPLY, INSTALL (SET UP), DELIVER, AND COMMISSION OF ONE (1) UNIT
UNITREE HUMANOID ROBOT G1 EDU ULTIMATE A-U3 WITH ACCESSORIES TO
THE SCHOOL OF DIGITAL SCIENCE (SDS), UNIVERSITI BRUNEI DARUSSALAM**

Advertise Date : 16th June 2025 (Monday)
18th June 2025 (Wednesday)

Closing Date : 01st July 2025 (Tuesday)
2.00 P.M.

Tender Fee : BND \$ 15.00

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 sah laku 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**

The Supply, Install (Set Up), Deliver, And Commission One (1) Unit Unitree Humanoid Robot G1 Edu Ultimate A-U3 with Accessories to the School of Digital Science, UBD.

Item 1a: Unitree Humanoid Robot G1 Edu Ultimate A-U3

Quantity: 1 unit

Specifications:

Mechanical Dimensions

- Model: G1 EDU Ultimate A-U3
- Height, Width, and Thickness (Stand): 1270x450x200mm (stand) / 690x450x300mm (fold)
- Weight (with Battery): About 35 kg+
- Total Degrees of Freedom (Joint Freedom): 43
- Single Leg Degrees of Freedom: 6
- Waist Degrees of Freedom: 3
- Single Arm Degrees of Freedom: 7
- Secondary Development: YES
- Single Hand Degrees of Freedom: 2x Dex3-1 force-controlled 3 fingers dexterous hands (without tactile)
- Protection Frame: YES
- Joint output bearing: Industrial grade crossed roller bearings (high precision, high load capacity)
- Joint motor: Low inertia, high-speed internal rotor PMSM (Permanent Magnet Synchronous Motor, better response speed and heat dissipation)
- Maximum Torque of Knee Joint: 120N.m
- Arm Maximum Load: About 3 kg
- Calf + Thigh Length: 0.6M
- Arm Span: Approx. 0.45M
- Extra Large Joint Movement Space:
- Waist joint: $Z \pm 155^\circ$, $X \pm 45^\circ$, $Y \pm 30^\circ$
- Knee joint: $0 \sim 165^\circ$
- Hip joint: $P \pm 154^\circ$, $R - 30 \sim +170^\circ$, $Y \pm 158^\circ$
- Wrist joint: $P \pm 92.5^\circ$, $Y \pm 92.5^\circ$

Electrical Characteristics

- Full Joint Hollow Electrical Routing: YES
- Joint Encode: Dual encoder
- Cooling System: Local air cooling
- Power Supply: 13-String Lithium Battery
- Basic Computing Power: 8-core high-performance CPU
- Sensing Sensor: Depth Camera+3D LiDAR
- 4 Microphone Array: YES
- 5W Speaker: YES
- Wi-Fi 6, Bluetooth 5.2: YES

Accessories & Other

- High Computing Power Module: NVIDIA Jetson Orin 100Tops
- Smart Battery (Quick Release): 9000mAh
- Charger: 54V 5A
- Manual Remote Controller: YES
- Battery Life: About 2h
- Upgraded Intelligent OTA: YES
- Warranty: at least 2 years
- Technical Support: YES (Provide excellent technical support services, complete development manuals, and ecological support)

Accessory:

Item 1b: G1 Battery

Quantity: 1 no.

Specifications:

- Product size: 120 mm*80 mm*182 mm
- Rated capacity: 9000mAh.
- Self-developed battery management system (BMS)
- Functions: Power display, Battery storage self-discharge protection, balance charging protection, overcharge protection, overdischarge protection, short circuit protection, battery load detection protection

Additional requirements:

To be included in the quoted price:

- After-Sales Support & Warranty
- Maintenance Support includes check-ups, troubleshooting, and hardware replacement if needed.
- Onsite Support (if needed)
- Technical training (on-site at UBD)

(End user Dr Ajaz/SDS)