

National University of
Technology (NUTECH)
IJP Road, Sector I-12
Islamabad
Telephone: 051-5476805
106/SCM/NUTECH
24 July 2025

To:
Subject: Request for Quotation: - Purchase of Eqpt for Wired Wired Based EV Charger

Please provide quotation for following items. Quotes will be submitted in closed envelop and must reach to SCM Office latest by 01 Aug 2025 before 1100 hrs.

| Ser | Item Name/Size | Specification | A/U | Country of Origin | Qty | Est Unit Price (PKR) | Total Est Price (PKR) |
|-----|---|--|-----|-------------------|-----|----------------------|-----------------------|
| 1. | UR100030-IP65 (EU) 30kW IP65 DC Charging Module | AC Input <ul style="list-style-type: none"> • Input voltage 260VAC~530VAC • Input frequency 55±10Hz • THD ≤5% • Power factor Rated output load PF ≥ 0.99 • Max. input current <60A • Input under voltage protection 255±5V, backlash≥15V • Input over voltage protection 530±5V, backlash≥15V • Input Power Derating 260±5V DC Output <ul style="list-style-type: none"> • Rated output 1000V/30A • Constant power voltage range 30kW (300V~1000V) • Output voltage range 150V~1000V • Output current range 0~100A • Output over voltage protection 1010±5V • Output under voltage alarm constant | Nos | China | 01 | | |

- 140±2V
- Short circuit protection
Short circuit retraction
constant current output
is adopted in case of
short circuit, which can
be recovered
automatically
- Voltage stabilized
accuracy $\leq \pm 0.5\%$
- Load sharing $\leq \pm 3\%$
- Max. startup overshoot
 $\leq \pm 1\%$
- Current stabilized
accuracy $\leq \pm 1\%$
- Startup time 1s
Efficiency Highest
efficiency >96%, rated
efficiency >95%

Communication & Alarm

- Communication
CAN
- Max. Number of parallel
machines 60pcs
- Alarm and status
CAN bus
communication, LED
display

Operating Environment

- Operating temperature
-30°C~75°C, derates
from 55°C
Overtemperature
protection On
- temperature >75°C±4°C
or <-30°C±4°C, module
will shut down
automatically
- Storage temperature
-40°C~85°C
- Humidity $\leq 95\%$ RH,
without condensation
- Atmospheric pressure/
Altitude
79kPa~106kPa

| | | | | | | | |
|----|--------|---|-----|-----------------------|----|--|--|
| | | Physical Characteristics <ul style="list-style-type: none"> • Acoustic Noise < 65dB • Cooling Fan cooling • Dimension 400mm (W) *148mm (H) *525mm (D) Weight ≤33kg | | | | | |
| 2. | Laptop | <ul style="list-style-type: none"> • Processor: Intel Core i7 (13th Gen or Higher), 10 to 12 cores / up to 16 threads, Turbo Boost up to ~4.9 GHz • Memory: 24 GB DDR5 RAM • Storage: 1 TB NVMe SSD, PCIe Gen 4 interface • Display: 15.6-inch , Full HD (1920×1080) or higher, Anti-glare, 300+ nits brightness • Operating System: Windows 11 Home or Pro • Integrated Graphics: Intel Iris Xe Graphics or higher • Ports: 2× USB-A 3.2, 1–2× USB-C (with Power Delivery and/or DisplayPort), HDMI 2.0 or higher, 3.5mm audio combo jack, Optional SD or microSD card reader • Connectivity: Wi-Fi 6E, Bluetooth 5.3, • Camera & Audio: 1080p FHD webcam, Dual-array microphones, • Stereo speakers with Dolby Audio (or similar enhancement) | Nos | American/ European | 01 | | |

| | | | | | | | |
|----|--|---|-----|-----------------------|----|--|--|
| | | <ul style="list-style-type: none"> • Keyboard: Backlit keyboard, Full-size with numeric keypad (on 15.6"+ models) • Battery: 70–90 Wh battery, Estimated 8–12 hours of use • Build & Design: Aluminum or premium plastic chassis Slim bezel design: Weight: ~1.6–2.2 kg | | | | | |
| 3. | Raspberry Pi 5 - 8GB Ram with Raspberry Pi Keyboard & Mouse, 27W USB-C Power Supply and Cooling Fan Active Cooler. | Raspberry Pi 5 8GB Ram <ul style="list-style-type: none"> • Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with cryptography extensions, 512KB per-core L2 caches and a 2MB shared L3 cache • VideoCore VII GPU, supporting OpenGL ES 3.1, Vulkan 1.2 • Dual 4Kp60 HDMI display output with HDR support • 4Kp60 HEVC decoder • LPDDR4X-4267 SDRAM (8GB SKU) • Dual-band 802.11ac Wi-Fi • Bluetooth 5.0 / Bluetooth Low Energy (BLE) • microSD card slot, with support for high-speed SDR104 mode | Nos | American/ European | 01 | | |
| | | <ul style="list-style-type: none"> • 2 × USB 3.0 ports, supporting simultaneous 5Gbps operation • 2 × USB 2.0 ports • Gigabit Ethernet, with PoE+ support (requires separate PoE+ HAT) • 2 × 4-lane MIPI camera/display transceivers PCIe 2.0 x1 interface for fast peripherals (requires separate M.2 HAT or other adapter) | | | | | |

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|--|--|--|--|--|--|--|
| | <ul style="list-style-type: none"> • 5V/5A DC power via USB-C, with Power Delivery support • Raspberry Pi standard 40-pin header • Real-time clock (RTC), powered from external battery • Warranty: 1 Year Warranty <p>Raspberry Pi Keyboard</p> <ul style="list-style-type: none"> • 79-key keyboard (78-key keyboard for US model) • 3 USB 2.0 type-A ports for powering other peripherals • Automatic keyboard language detection • USB type-A to micro USB type-B cable included for | | | | | |
| | <ul style="list-style-type: none"> • connection to compatible computer • Ergonomic design for comfortable use • Compatible with all Raspberry Pi products • Keyboard incorporates three USB 2.0 type-A ports for powering the mouse and other peripherals • Warranty: 1 Year Warranty | | | | | |
| | <p>Raspberry Pi Mouse</p> <ul style="list-style-type: none"> • Three-button optical mouse • Scroll wheel • USB type A connector • Ergonomic design for comfortable use • Warranty: 1 Year Warranty <p>Raspberry Pi 27W USB-C Power Supply</p> | | | | | |

| | | | | | | | |
|---|---------------------|--|-----|-----------------------------------|----|--|--|
| | | <p>Input: 100–240Vac</p> <p>Output: 5.1V, 5A; 9V, 3A; 12V, 2.25A; 15V, 1.8A (Power Delivery)</p> <p>Connector: USB-C</p> <p>Cable: 1.2m 17AWG, white or black</p> <ul style="list-style-type: none"> • Warranty: 1 Year Warranty <p>Cooling Fan Active Cooler</p> <p>The cooling fan is dedicated to compatible for Raspberry Pi 5, perfect for the CPU.</p> | | | | | |
| | | <ul style="list-style-type: none"> • Adjustable fan, active fan cooling mode, faster heat dissipation. • Aluminum alloy shell radiator, faster heat dissipation. • Simple Installation: The DC 5V fan runs smoothly and quietly, which is conducive to heat dissipation. It can be easily assembled with screws. <p>Low Noise: The blower, also chosen for low noise and extended operating life, pushes the air against the finned aluminum heat sink.</p> | | | | | |
| 4. | EV Bike Charger Kit | <ul style="list-style-type: none"> • E-Bike Charger kit 73V 10A | Nos | American/ European/ Chinese | 01 | | |
| Gross Total inclusive of all taxes | | | | | | | |

1. Provide unit price of each item, Total price per item, Total price of all items without all applicable taxes and total price with all taxes.

2. Quote for above mentioned items should be on company's letterhead with sign and stamp.
3. Also mention date of quote, **NTN and STRN** number in your quotation.
4. Quality must be ensured.
5. Quotes must reach in SCM Office 2nd Floor Admin Block NUTECH Islamabad latest by 01 Aug **2025 not later than 1100 hrs.**
6. Quotes will be opened on 01 Aug **2025.**
7. Delivery period will be **07 days** after placing Purchase Order.
8. Please ensure delivery within stipulated time.
9. Rates shall be quoted on free delivery basis at NUTECH Islamabad.
10. Warranty/ Guarantee required **12 Months.**
11. **Business will be awarded on package deal.**


Deputy Director
Supply Chain Management Office