



Tender Notice | Purchase of NRPU Project Equipment

1. The “*Design and Validation of an AI-Driven Unified Control System for Electric Vehicle Powertrain and Charging Optimization*”, funded under **HEC-NRPU at Karachi Campus** of the University invites sealed bids from the authorized distributors (With Valid Distribution Certificate)/suppliers/well-reputed firms/service providers registered with Income Tax and Sales Tax Departments and who are on Active Tax Payers List (ATL) of the Federal Board of Revenue, for the purchase of following **Twenty three (23)** items/lab equipment for the mentioned quantities for HEC – NRPU Project Ref. **164540– 60**.

Sr.#	Name of Item/Equipment	Qty
I	Core Real-Time HIL Platform	1
II	Bidirectional DC–DC Buck–Boost Converter	2
III	Three-Phase DC–AC Inverter for EV Traction Motor	1
IV	Gate Driver Boards for EV DC–DC Converter / Three-Phase Inverter	2
V	EV-Type Three-Phase Electric Motor	1
VI (a)	Motor Dynamometer	1
VI (b)	Programmable Electronic Load	1
VII	Mechanical Coupling, Mounting Base & Safety Guard	1
VIII	Bidirectional DC Power Supply (Battery Emulator)	2
IX	Programmable DC Power Supply (Fuel-Cell Emulator)	1
X	Wireless Power Transfer (WPT) Transmitter & Receiver Coil and AC to DC converter	1
XI	High-Frequency Resonant Inverter & Compensation Network for WPT	1
XII	300 Vrms-Class Isolated Voltage Input / Measurement Module	1
XIII	AC/DC Current & Voltage Data Acquisition Module	1
XIV	Industrial 4-Channel Analog Output (AO) DAC Module	1
XV	Host PC / Workstation for EV Simulation, HIL & Machine Learning	3
XVI	Small-Capacity EV Battery Module	1
XVII	Supercapacitor Module	1
XVIII	Unidirectional DC–DC Boost Converter	1

XIX	DC Bus / DC-Link Assembly	1
XX	Motor Speed Sensor	1
XXI	Isolated CAN Transceiver	1
XXII	Isolated DC Voltage Sensor	7
XXIII	Isolated DC Current Sensor	7
Total		41

2. Bidding shall be carried out by “Single Stage Two Envelope” procedure. Bidding documents containing detailed terms & conditions etc. are available at Procurement Office/ Basement 1/ Academic Block 1/ Main Campus/St-4 Sector 17-D On National Highway Karachi, Pakistan. Tender notice and bidding documents can also be downloaded from www.nu.edu.pk/Events/Details/551
3. The bids having separate sealed envelopes clearly marked as **Technical and Financial Bid**, prepared in accordance with the instructions as mentioned in the bidding document, must reach on or before **Thursady, October 15, 2026, until 14:30** at Procurement Office/ Basement 1/ Academic Block 1/ Main Campus/St-4 Sector 17-D on National Highway Karachi, Pakistan. **Technical Bids** will be opened on the same day, i.e., **October 15, 2026, at 15:00 Hours** in the presence of bidders/their representatives. The second envelope containing “**Financial Bid**” of **technically qualified** bidder(s) will be opened later, the date of which will be communicated after the evaluation of Technical Bids.
4. The University reserves the right to accept or reject any/all bid(s) as per the prescribed Procurement Rules of the University.

Procurement Department
FAST – National University of Computer & Emerging Sciences,
Karachi