



COEP Technological University

A Unitary Public University of Government of Maharashtra
(Formerly College of Engineering Pune)

Department of Mechanical Engineering

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Enquiry Letter

Sealed Quotation are invited by the Department of Mechanical Engineering, COEP Technological University Pune from reputed vendors/reseller/suppliers/service providers for procurement of "Microprocessor Developer Kit" for the ARMREB project title "Feasibility Analysis and Experimental Study of Turret Gun Control System".

Enquiry Number: -	COEPTU/MED/Procurement of Microprocessor Developer Kit/ ARMREB/ SSO/ 2026/ 436
Enquiry Date: -	30/09/2026
Description & Qty: -	Refer Annexure A
Location: -	Mechanical Department, COEP Technological University Pune
Quotation Submission Date (a) Time: -	Up to 09/10/2026 @ 5.00pm
Quotation Submission Place: -	Inward Section, Near Establishment Section, COEP Technological University, Wellesley Road, Shivajinagar, Pune-411005
Quotation Opening Place: -	Head, Department of Mechanical Engineering, COEP Technological University, Wellesley Road, Shivajinagar, Pune-411005

Annexure A: Procurement of Microprocessor Developer Kit

Sr. No.	Equipment	Qty	Specification
1. Microprocessor Developer Kit	a. AI Microprocessor Developer Kit & accessories	1	Embedded AI Developer Kit with ≥ 6 -core Arm CPU, NVIDIA Ampere GPU with Tensor Cores, ≥ 8 GB LPDDR5 RAM, AI performance up to 67 TOPS, Gigabit Ethernet, USB 3.2, M.2 expansion, CSI camera interface, HDMI/DisplayPort, (Ex. NVIDIA Jetson Orin Nano Super Developer Kit or equivalent). Accessories- (i) 128 GB minimum microSDXC memory card, Class 10, UHS-I U3 or better; (ii) USB 3.0 or higher card reader, compatible with SD/microSD cards; (iii) 256 GB minimum M.2 NVMe SSD, PCIe interface; (iv) Display of minimum 12-inch size, Full HD (1920 $\times$ 1080) or better, HDMI/DisplayPort or equivalent input; (v) USB camera with minimum 64 MP still-image resolution, USB 3.0 or higher, UVC and Linux compatible; (vi) all required cables, adapters, power accessories and mounting accessories.
	b. Microcontroller Development Board	1	32 bit ARM Cortex-M7 (216 MHz), 1 MB Flash, 320 KB SRAM, USB OTG HS/FS, Ethernet, CAN, SPI, I ² C, UART, PWM, ADC, DAC, LCD-TFT controller, Audio codec, microSD interface, Arduino TM and onboard ST-LINK/V2-1 debugger, expansion interface compatible with external sensors and driver modules; suitable for real-time control and data acquisition applications (Ex. STM32F746G-DISCO or equivalent.)
	c. Programmable DC Power Supply	1	Triple-output programmable DC regulated power supply with two independently controllable variable outputs of 0–30 V DC and 0–5 A DC per channel, and one fixed auxiliary output of 5 V/3 A or better; constant-voltage (CV) and constant-current (CC) operation; voltage/current setting resolution of approximately 10 mV/1 mA or better; digital voltage/current display; programmable memory; USB and/or LAN remote-

			control interface; over-current/current-limiting and short-circuit protection; low ripple and noise; suitable for laboratory electronic, electromagnetic and coil-driver applications. (Ex. Metravi PRPS-3005-3 or equivalent.)
	d. Programmable High-Current Driver Module	2	Dual-channel bidirectional driver module, operating voltage 7-35 V DC or wider, continuous output current ≥ 10 A per channel, bidirectional independent channel operation, PWM/analog/UART or equivalent control interface, suitable for microcontroller-based control, current limiting/protection, thermal/over-temperature protection, under-voltage/over-voltage protection, and suitable for inductive electromagnetic loads and experimental actuator applications. (Ex. Cytron SmartDriveDuo-10 (MDDS10) or equivalent.)
	e. Single Board Computer	1	Quad-core 64-bit Arm Cortex-A76 processor (~2.4 GHz), minimum 8 GB RAM, dual-band Wi-Fi, Bluetooth, Gigabit Ethernet, USB 3.0 ports, dual micro-HDMI, PCIe interface, Linux OS support. (Ex. Raspberry Pi 5 Model B, 8 GB RAM or equivalent.)
	f. Camera Module	1	12 MP back-illuminated CMOS image sensor, CSI interface, HDR support, IR-cut filter, support for Full HD and HD video modes. (Ex. Raspberry Pi Camera Module 3 featuring Sony IMX708 sensor or equivalent.)
	g. Cables & Accessories	1 lot	USB cables, Ethernet cables, power adapters, jumper wires, connectors, and accessories and mounting hardware. (OEM/Standard).

Terms & Conditions: -

1. Fax and Email quotation are not acceptable.
2. The taxes, insurance, freight, packing and forwarding charges if any be quoted in Indian Rupees separately.
3. The rates shall be valid for 90 days.
4. Validity: Quotation Validity at least 90 days from the due date.
5. Quotations shall be sent in sealed envelopes clearly marked Quotation for procurement of "Microprocessor Developer Kit" for the ARMREB project, Enquiry Number, Enquiry date and Enquiry due date and addressed to The Head, Department of Mechanical Engineering, COEP Technological University Pune - 411 005.
6. 100% payment will be paid after satisfactory delivery, installation and commissioning/work.
7. Please specify the make and model of the item.
8. Quotation(s) received after last date of Quotation submission will be rejected.
9. Delivery/Work Period and Terms Conditions should be mentioned clearly
10. Delivery/Work: The penalty conditions are applicable for the late delivery as per Government norms.
 - a) at the rate of 0.5 % per week; the maximum limit of 10% shall be charged in case of PO value is less than 2 Lakh
 - OR
 - b) at the rate of 0.5 per week; maximum limit of 5% shall be charged in case of PO value is 2 Lakh above.
11. All following documents/certificates should be provided / attached at the time quotation submission.
 - a) Shop Act License/Incorporation Certificate/Firm Registration Certificate Copy.
 - b) PAN Card Copy
 - c) GST Certificate Copy
12. Optional items should be quoted in separate sheet otherwise your quote will be rejected
13. Supply/Work and Installation: - Vendor shall be responsible for successful installation, commissioning and testing of the supplied items at Department of Mechanical Engineering, COEP Technological University Pune-411005. Any defective component/device will be replaced by vendor at his cost.
14. The Registrar of COEP Technological University Pune reserves right to reject any one or all the quotation(s) without assigning any reasons there for.



Head

**Department of Mechanical Engineering,
COEP Technological University Pune**

HEAD

**Department of Mechanical Engineering
COEP Technological University, Pune-05**