



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

The Department of Mechanical Engineering, COEP Technological University, Pune invite sealed quotations, from reputed expertise and consultancy services for the development of the ARMREB project – "Feasibility Analysis and Experimental Study of Turret Gun Control System". "

Enquiry Number: -	COEPTU/MED/ Expertise and Consultancy services under ARMREB project/SSO/2026-27/ 443
Enquiry Date: -	01/10/2026
Customize PMSM Motor Drive	1. Turret Mechanism Modelling & Study: Mathematical and dynamic modelling of the elevation and traverse mechanisms, including inertia, friction, gearbox/transmission characteristics, and mechanical load analysis. 2. PMSM Motor & Drive Modelling: Development of mathematical and dynamic models of the PMSM motor, power inverter, and associated drive system integrated with the turret mechanism. 3. Control Algorithm Development: Development and analysis of Field-Oriented Control (FOC), current, speed, and position control algorithms for accurate elevation and traverse motion. 4. Integrated Simulation & Performance Validation: Simulation and validation of the complete motor-drive-turret system for torque, speed, acceleration, position tracking, stability, and dynamic performance. 5. Controller Tuning & Implementation Readiness: Controller tuning and recommendations for implementation on the selected embedded controller/DSP platform Deliverables: MATLAB/Simulink models of the turret mechanism and PMSM drive system, control algorithms, simulation and performance results, controller tuning recommendations, and technical documentation.
Location: -	Mechanical Department, COEP Technological University Pune
Quotation Submission Date@ Time: -	Up to 12/10/2026 @ 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

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 Supply and Installation of, **Expertise and Consultancy services**, 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 and 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-5