SAPLUS MOBILITY & ENERGY SOLUTIONS

Business Proposal | Automotive & Electric Mobility Centre of Excellence
AAA College of Engineering and Technology, Sivakasi, Tamil Nadu
17 October 2026 | Discussion draft - budgetary proposal

1. Executive proposition

SAPLUS Mobility & Energy Solutions proposes an industry-aligned Automotive & Electric Mobility Centre of Excellence (CoE) at AAA College of Engineering and Technology, Sivakasi. The CoE is intended to connect engineering education with practical EV systems engineering, laboratory experimentation, prototype development, diagnostics, and industry-relevant capability building. The initial focus is electric two-wheelers and three-wheelers, with associated power electronics and energy systems; passenger cars and heavy commercial vehicles are outside this proposed Phase 1 scope.

2. Purpose and expected outcomes

The CoE will enable structured hands-on learning for students and faculty; subsystem-level experiments; EV conversion, integration and diagnostics; measurement-driven projects; and applied research and industry engagement. Expected institutional outcomes include improved lab-based competency, interdisciplinary capstone projects, faculty capability development, and a platform for sustained industry-academia collaboration. Outcomes depend on deployment, participation and institutional support and are not guaranteed placement or certification claims.

3. Proposed technical domains and budget

Domain	Indicative investment
EV vehicles, conversion and teardown	₹27,60,000
Battery, BMS and safety	₹12,50,000
Motors, controllers and power electronics	₹12,00,000
Automotive electronics, CAN and diagnostics	₹10,00,000
Charging and energy systems	₹7,00,000
Workshop, instruments and facilities	₹10,00,000
TOTAL (before GST and other charges)	₹79,10,000

All values are indicative planning estimates in INR, subject to supplier quotations, configuration finalization and joint scope confirmation. GST, freight, installation and commissioning are additional.

4. Phase 1 laboratory and demonstration scope

The proposed setup supports EV vehicle architecture and teardown, two-wheeler/three-wheeler conversion exercises, traction motor and controller integration, battery cell/pack characterization, BMS observation and algorithm validation, CAN-based diagnostics, EV charger measurement, electrical safety practices, and prototype testing. Detailed makes, models, instrument specifications, quantity, space and utility

requirements will be finalized in the equipment and commercial schedule.

5. Academic delivery model

SAPLUS proposes a staged capability model: (i) orientation and baseline skill mapping; (ii) laboratory familiarization and safe operating procedures; (iii) guided subsystem experiments; (iv) interdisciplinary mini-projects and capstone mentoring; and (v) assessment, evidence collection and improvement. Two potential 45-hour practical courses are Advanced Electric Two-Wheeler Technology and EV Conversion, Advanced Diagnostics & Prototype Development. Course implementation and assessment plans will be agreed separately.

6. Proposed engagement sequence

Stage A - Discovery: joint requirements review, space and utility readiness, learner profiles and scope freeze.
Stage B - Capability workshop: proposed one-day Automotive & EV Technology workshop as a practical entry point; indicative institutional workshop fee ₹9,900 plus applicable GST, subject to agreed inclusions.
Stage C - Procurement and deployment: vendor finalization, purchase order, delivery, installation, commissioning and acceptance testing.
Stage D - Enablement: faculty orientation, lab manuals, safety induction and pilot student cohorts.
Stage E - Sustained collaboration: projects, mentoring, applied research and periodic capability reviews.

7. Roles and responsibilities

SAPLUS: technical scoping, equipment recommendations, coordination of agreed supplies/services, installation and commissioning where contracted, training content and agreed enablement support.
AAA College: site allocation, laboratory furniture and civil works, HVAC and major electrical upgrades where required, utilities, internet, statutory and campus safety provisions, faculty/student nominations and local operational support.
Joint: acceptance criteria, schedule, safety governance, project reviews and final deliverables.

8. Commercial assumptions and exclusions

The proposed ₹79.10 lakh is an indicative equipment and laboratory investment, not a firm tax-inclusive quotation. Applicable GST will be added item-wise based on final classification. Bengaluru-to-Sivakasi freight, unloading, installation and commissioning will be separately quoted. Civil work, HVAC and major electrical works remain under college scope unless specifically contracted. Lead times, payment milestones, warranty, service coverage and final technical specifications require written agreement and vendor confirmation. An indicative deployment planning window is approximately 90 days after order confirmation, scope freeze and site readiness, subject to supply availability.

9. Next steps and decision requested

AAA College is invited to confirm interest in a joint technical and commercial review. The immediate outputs would be an agreed domain-wise bill of materials, a site-readiness checklist, a refined commercial quotation, and a phased implementation and training plan. A one-day workshop may be used as the initial engagement before full CoE procurement.

Contact

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Document status: Proposal for discussion; not a purchase order, binding offer, tax invoice, or final technical specification.