SAPLUS Mobility & Energy Solutions

Equipment Investment & Commercial Proposal

Automotive & EV Centre of Excellence | AAA College of Engineering and Technology, Sivakasi

STATUS: INDICATIVE BUDGET ESTIMATE — NOT A BINDING QUOTATION. Equipment descriptions and allocations are proposed planning assumptions, subject to OEM selection, specifications, supplier quotations and institutional approval.

Six-Domain Investment Summary

Domain	Indicative investment (INR)
EV Vehicles, Conversion & Teardown	2,760,000
Battery Systems, BMS & Safety	1,250,000
Motors, Controllers & Power Electronics	1,200,000
Automotive Electronics, CAN & Diagnostics	1,000,000
Charging & Energy Systems	700,000
Workshop, Instruments & Lab Facilities	1,000,000
TOTAL EQUIPMENT, EXCLUDING GST	79,10,000

The proposed CoE will be established at the AAA College campus. SAPLUS is the proposed equipment and capability partner. Any participation by TVS Motor Company requires separate agreement.

1. EV Vehicles, Conversion & Teardown

Domain allocation: INR 2,760,000

Equipment / package	Qty	Amount (INR)	Indicative functional specification
Removable-battery electric scooter	2	330,000	2W service, battery access and diagnostics
Electric motorcycle training vehicle	1	420,000	Motorcycle drivetrain and vehicle systems
Electric passenger three-wheeler	1	560,000	Passenger 3W architecture and diagnostics
Electric cargo three-wheeler	1	540,000	Cargo 3W drivetrain and load study
EV conversion / prototype kit	2	460,000	Motor, controller, interfaces and fixtures
Vehicle teardown stands / fixtures	2	200,000	Safe assembly and disassembly
Diagnostic harnesses, adapters, safety accessories	1 lot	250,000	Vehicle interfaces and isolation aids

2. Battery Systems, BMS & Safety

Domain allocation: INR 1,250,000

Equipment / package	Qty	Amount (INR)	Indicative functional specification
Battery module / pack training benches	2	420,000	Cell/module monitoring and testing
BMS diagnostic kits	2	280,000	Balancing, fault and parameter monitoring
Battery cycler / charge-discharge setup	1	300,000	Supervised characterization
Safety, insulation and handling kits	1 lot	250,000	PPE, insulated tools, storage and meters

3. Motors, Controllers & Power Electronics

Domain allocation: INR 1,200,000

Equipment / package	Qty	Amount (INR)	Indicative functional specification
BLDC/PMSM motor-controller rigs	2	500,000	Speed, torque and sensor feedback

Equipment / package	Qty	Amount (INR)	Indicative functional specification
Inverter and DC-DC converter benches	2	360,000	Converter topology and measurement
Motor/load measurement and protection accessories	1 lot	340,000	Sensors, fixtures and protection

4. Automotive Electronics, CAN & Diagnostics

Domain allocation: INR 1,000,000

Equipment / package	Qty	Amount (INR)	Indicative functional specification
CAN/LIN interface and diagnostics kits	2	300,000	Network and fault diagnosis
ECU / sensor / actuator trainer benches	2	360,000	Embedded I/O and signal conditioning
Scanners, breakout boxes, wiring aids	1 lot	340,000	Vehicle testing interfaces

5. Charging & Energy Systems

Domain allocation: INR 700,000

Equipment / package	Qty	Amount (INR)	Indicative functional specification
EV charging demonstration stations	2	360,000	AC charging, protection and metering
DC power and energy management trainers	2	220,000	Energy flow and conversion
Charging safety and metering accessories	1 lot	120,000	Connectors, measurement and safety

6. Workshop, Instruments & Lab Facilities

Domain allocation: INR 1,000,000

Equipment / package	Qty	Amount (INR)	Indicative functional specification
Oscilloscopes, meters and power supplies	1 lot	400,000	Electrical/electronic measurement
Workbenches, tools and ESD infrastructure	1 lot	300,000	Lab workstations and storage
Lab safety, signage and installation accessories	1 lot	300,000	PPE, safety and lab fit-out aids

Commercial Terms & Conditions

Term	Proposed treatment
Equipment prices	Indicative and unverified; final OEM make/model, technical compliance and itemized quotation require approval.
GST	Additional at applicable HSN/SAC-specific rates; no uniform tax rate assumed.
Freight and transit insurance	Excluded; to be separately quoted after logistics and packaging are defined.
Installation and commissioning	Excluded unless included in final scope; separately quoted following site survey.
Training and documentation	Faculty orientation, manuals, acceptance records and training fees to be finalized in the agreed scope.
Warranty and service	OEM-specific warranty and after-sales support to be documented item-wise.
Delivery and payment	Delivery lead times, payment milestones, quote validity and acceptance terms subject to mutual agreement.
Site readiness	College to provide space, utilities, safe electrical supply, access and necessary civil/electrical works.
Variations	No substitutions or additional charges without written approval.

Execution and Next Steps

Joint technical review and site survey → validated equipment BOQ and supplier quotes → final commercial offer → institutional approvals and purchase order → supply and installation → commissioning, acceptance and faculty orientation. A target 90-day implementation may be planned only after purchase order, lead-time and site-readiness confirmation.

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