

Turnkey EV Solution Provider for Last Mile Delivery Operation

2020

FROST & SULLIVAN
AWARD WINNER 2019

Industries Served

E-Commerce Logistics | Food Delivery | Courier Delivery | Fleet Operators



About Us

EV Motors India Pvt. Ltd., is a pioneer EV Solutions provider in India. We offer a wide array of products and services to facilitate faster EV adoption. Our goal is to accelerate the creation of an e-mobility ecosystem. The products and services are designed to meet the requirements and expectations of Last mile delivery companies - e-Commerce, Online food and Courier delivery businesses.

Our Mission

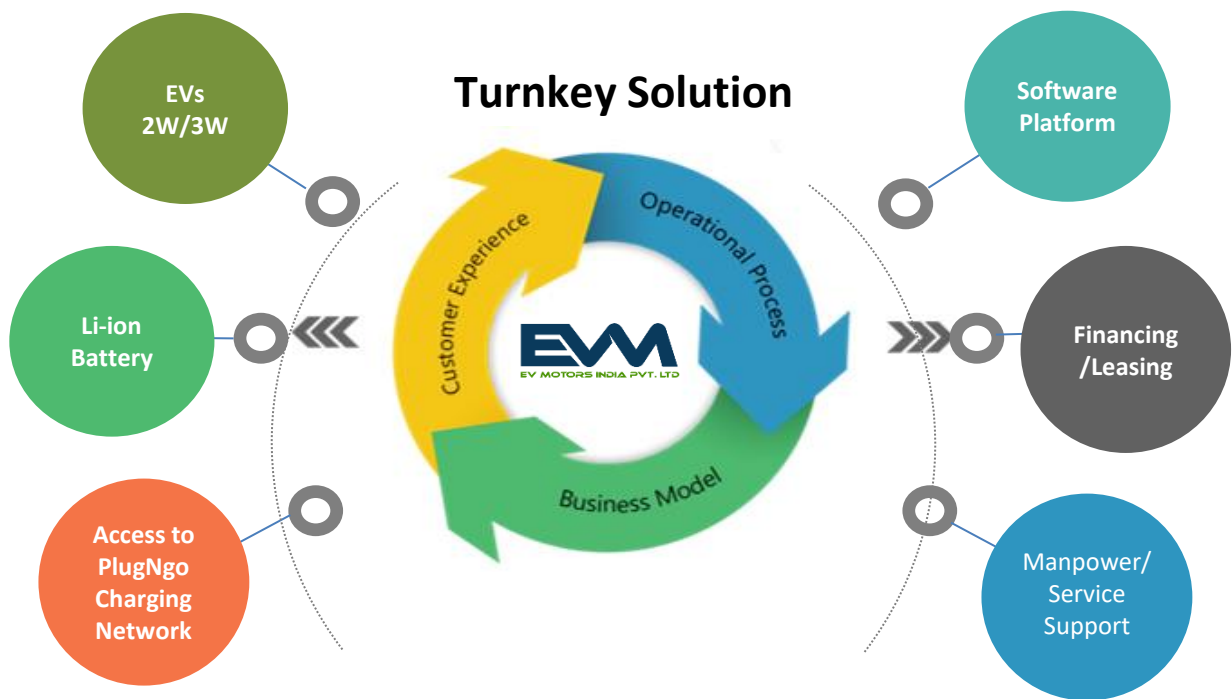
“To provide ‘Energy as a Service’ for our e - mobility consumers by leveraging EV charging & energy storage infrastructure developed on our unique cutting edge technology platforms.”

Our Approach:

EVM provides a holistic turnkey Electric Vehicle Solution to Last Mile Delivery Operators for 2W & 3W applications.

Our team has focused on delivering innovative solutions to address critical challenges of the Last Mile delivery industries such as Ownership of vehicle spread across large no of individuals, Access to financing, EV Charging Infrastructure, Battery performance & Vehicle uptime and Service issues.

Our solution enables a robust roadmap to building an effective fleet of EVs. This shall result in more efficient supply chain and facilitates easy transition to EVs. This helps to bring down maintenance & running costs, thereby impacting business unit economics positively.



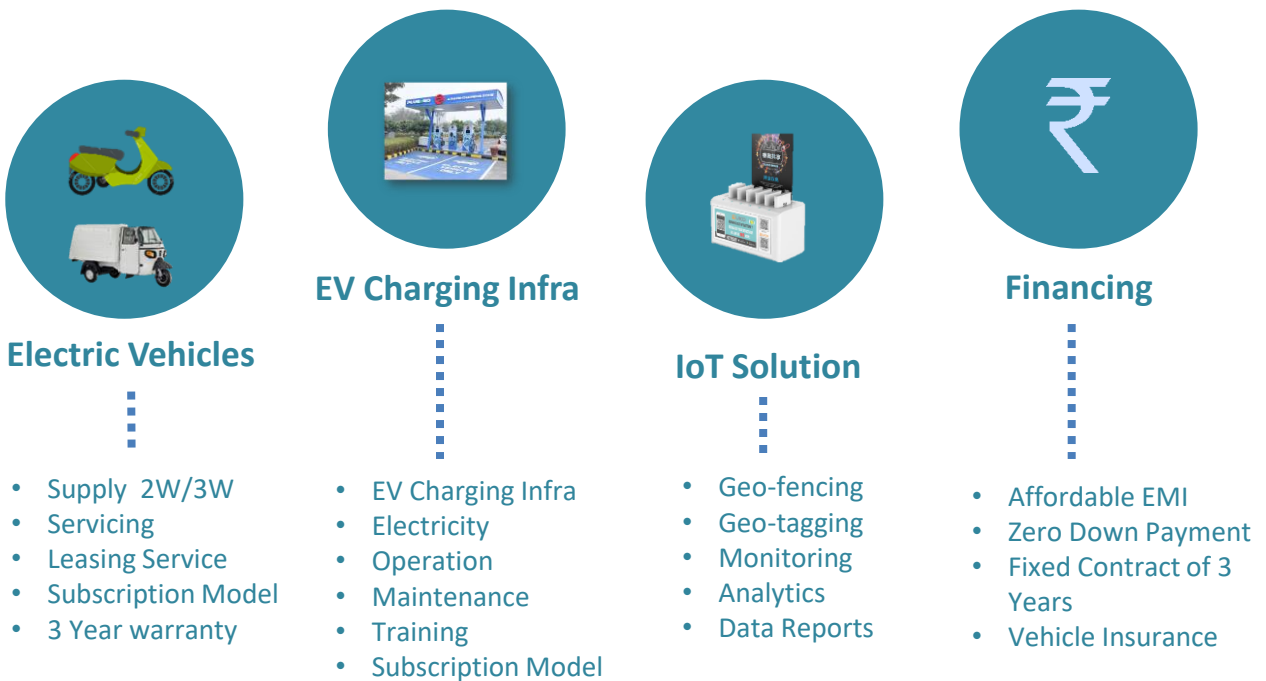
Solution Offerings:

- Affordability - No High Upfront cost
- Scalability - Provide Vehicle volumes for Fleet and Last Mile Delivery operators
- Addressing Range Anxiety – Access to Integrated & Connected PlugNgo EV Charging Network
- Advanced Battery Technology for High Asset Utilization – EVM Battery technology allows 10% to 80% SOC in <40 mins that enables 24 X 7 operation time
- Leverage Technology solution & unique IOT platform to allow for constant monitoring of battery & vehicle performance, security aspects to ensure longer uptime & limit misuse

Key Deliverables:

We are committed to provide a commercially viable e-mobility solution. Whether powering EVs on the road or supporting other stationary applications, our team strives to provide an end to end solution for last mile delivery operation.

Following are the key components of our solution:



Key Enablers:

- OEM tie-up for 2W/3W - EVM has tied-up with major OEMs in automobile industry for developing electric two /three wheelers
- Charging Infra – EVM provides world class charging infrastructure through its PlugNgo branded Network which has all facilities needed
- Leasing & Financing– EVM has tied-up with reputed companies who are known for providing leasing solutions within India & Internationally. Our Company uses structured finance to cover a loan up to 100% of the vehicle cost at a low interest rate, removing the challenge of high down payment

Industries Served



**Food
Delivery**



**Fleet
Operator**



**Courier
Delivery**



**E-Commerce
Logistic**



**Shared
Mobility**

EVM Commercial Model

Model - 1

Vehicle Outright Purchase with AMC

- Electric 2W/3W
- Limited Annual Maintenance Contract
- Access to PlugNgo EV Charging Network
- Electricity Cost Included

Model - 2

Vehicle Purchase with 3 Years EMI

- Electric 2W/3W with 30% Down Payment
- Affordable Fixed EMI
- Limited Annual Maintenance Contract
- Access to PlugNgo EV Charging Network
- Electricity Cost Included
- Vehicle Insurance Included

Model - 3

Monthly Lease Excluding Manpower

- Fixed Lease cost per vehicle/month
- 3 years contract
- Limited Annual Maintenance Contract
- Access to PlugNgo EV Charging Network
- Electricity Cost Included
- Vehicle Insurance Included

Model - 4

Monthly Lease Including Manpower

- Fixed Lease cost per vehicle/month
- 3 years contract
- Manpower (Driver) cost included in lease cost
- Limited Annual Maintenance Contract
- Access to PlugNgo EV Charging Network
- Electricity Cost Included
- Vehicle Insurance Included

“We Offer Customized Solution for Customer Delivery based Business Operations”

Technical Specifications

Parameters	2W Low Range	2W High Range
System Voltage	48V	48V
Max Speed(km/h)	45	45
Motor Power	600W/1300W	600W/1300W
Range (km)	50*	85*
Kerb Weight in kg (With Battery)	87	97
Wheel Size(F/R)	90/90-12"	90/90-12"
Battery Capacity	1.3 kWh	2.17 kWh
Charging Time (10-80% SOC)	40 Minutes* @ PlugNgo Outlet	



Parameters	E-Rickshaw	E-Cart Open Box	E-Cart Closed Box
System Voltage	48V	48V	48V
Max Speed(km/h)	25	25	25
Range(km)	118*	115*	115*
Kerb Weight in kg (With Out Battery)	266	278	333
Load (Kg)	4 Passenger + 1 Driver	472	417
Motor Power	1200W/1900W	1200W/1900W	1200W/1900W
Wheel Size(F/R)	3.00-17"	3.00-17"	3.00-17"
Deck Size (L*W*H) mm	--	1284*984*260	1284*984*1140
Battery Capacity (kWh)	4.35kWh	4.35kWh	4.35kWh
Charging time (10-80% SOC)	40 Minutes* @ PlugNgo Outlet		



Technical Specifications

Parameters	E-Auto	L5 Loader Open Box	L5 Loader Closed Box
System Voltage	48V	48V	48V
Max Speed(km/h)	55	55	55
Range(km)	110*	110*	110*
Kerb Weight in kg (With Out Battery)	410	410	505
Load (Kg)	3 Passenger + Driver + Load	590	495
Motor Power	6000W	6000W	6000W
Wheel Size (F/R)	4.5-10"	4.5-10"	4.5-10"
Deck Size (L*W*H) mm	NA	Please contact EVM Sales for more information	
Battery Capacity (kWh)	8.7kWh	8.7kWh	8.7kWh
Charging time (10-80% SOC)	40 Minutes* @ PlugNgo Outlet		



Model	EVMDCFCLV-18kW Combo		
AC Input	3phase 4wire, AC 380~480V(standard)		
Power Factor	0.99		
Efficiency	93%		
Output	2 Nos. of SBX 175	4 Nos. of SBS 75X	3 Nos. of Industrial Plug
	Max 60Vdc/160A @each output	Max 60Vdc/80A @each output	Max 230±10%Vac/16A @each output
Power	18kW DC		10kW AC
Cooling System	Cooling Fan		
Display	7 Inch LCD Touch Screen		
Dimensions (LxWxH) mm	395mm(D) x 500mm(W) x 1750mm(H)		



Vehicle IoT Solution

EVM offers unique IoT solution that can be activated with the help of rider's smartphones and continuously generate data from the integrated sensors which are transmitted and stored on the Cloud Server. Further, most functional level mobility data will produce more focused insights related to fleet management and enable smooth operation of Business.

- GPS based real-time location
- Remote Immobilizer
- ZEN Mode – Sleep Mode
- Ignition On/off Status
- Trip History
- Overspeed Alert
- Main power disconnection alert
- Preventive maintenance schedule alert & alarm
- Customized daily automated reports

Other Vehicle IOT Features



Geo – Location & Fencing
Track your Battery



User-Friendly Software App
Includes all relevant Info & Alerts



Seamless Maintenance
Vehicle Range estimation based on battery voltage



Movement Alerts
Trips logs & Overspeed Alerts



Service Support

- Electricity & Charging Infra access to be available during operating hours
- Provide a Limited AMC to cover Labour & Consumables Costs
- 3 Comprehensive services for each 2W @ every 10,000kms interval. 6~9 smaller preventive maintenance services at regular intervals to ensure minimal breakdowns.
- Guaranteed %age vehicle uptime basis usage in regular contracted hours, does not include accidental downtime. Terms & conditions apply
- Leverage technology to ensure adherence to service schedule
- OUT of AMC scope of work & settlement to be defined with Service Provider

Warranty & Training Support

- 3 Year Vehicle Warranty (Back to Back)
- 3 Year Battery Warranty
- 3 Year limited Annual Maintenance
- EVM can support to provide training to Manpower
- Regular training & engagement by EVM Service team with Drivers to educate and enhance skills to maximise vehicle performance & uptime



**“Partner with us to support development of e-
mobility Eco-system”**

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