

3W EV L3 CATALOGUE (REGISTERED)

Join the future of Sustainable Transportation



SAMPOORN EV

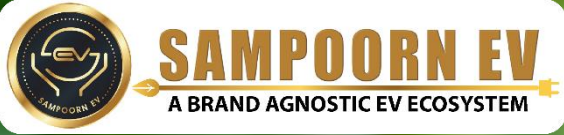
A BRAND AGNOSTIC EV ECOSYSTEM



SAMPOORN EV
Presents
A Premium Range of
3 Wheeler EV Vehicles



Rickshaw, Auto, Loader, E-Cargo & Garbage Van



**Make Partner Eco-Friendly Vehicle for a
Brighter Tomorrow**

**Join Hands with Sampoorn EV, Step into Booming EV Industry
Become a Part of EV Revolution..**

CONTENTS:

1 RICKSHAW

2 AUTO

3 LOADER

4 E-CARGO

5 GARBAGE VAN

OVERVIEW

The increased demand of last-mile connectivity for delivery of goods is naturally pushing the growth of 3-wheeler (3W) goods vehicles. Now the conventional ICE 3 & 4-wheelers are the backbone of the Indian last-mile delivery ecosystem. The preference for 3Ws in this regard is because the big trucks or mini-vans are too expensive to operate and cannot offer doorstep reach in most of the cities due to narrow streets, while 2-wheelers (2Ws) offer only limited load capacity.

For businesses in the last-mile delivery race, whether it is for retail kirana operations, e-commerce, restaurant deliveries, or even third-party logistics fleets, quick and efficient transportation is the final litmus test for success in the market. Yet, as socially responsible enterprises, they also have a commitment towards curbing the destructive impacts, on the environment, of their increased logistical activities for urban ecology and building sustainable supply chains. This is where the 3W EV, with its well-known and globally acknowledged low-carbon footprint, becomes the front runner in the race.

BUSINESS BENEFITS

The environmental benefits of EVs in the last-mile delivery ecosystem take precedence over everything else. As major cities grapple with high air pollution, 3W EVs can reduce carbon tailpipe emissions by 13 ton per 100 km.

The running cost of a 3W EV is 30-40 paisa per km while its diesel counterpart is known to cost about INR 3 per km, and a small delivery 4W, as high as INR 7 per km. This means a commercial 3W EV operates at approximately 12% of the running cost of a fossil fuel-based equivalent, and less than 10% of a 4W. This cost difference adds up to a sizable operational saving as the diesel asset grows older, and mileage drops significantly.

Moreover, electric 3-wheelers have fewer parts than regular 3-wheelers — like the engine, pistons, fuel pumps, radiators, cooling systems, spark plugs, exhaust systems, timing belts — which makes vehicle maintenance a lot simpler and cost effective. A recent Kee Resources research concluded that an electric vehicle is at least 30% cheaper to maintain than an ICE vehicle.

Another interesting aspect that the last-mile fleet operators should consider is that with advanced telematics and other tech-intensive features, modern EVs enable them to have a better overview of their operations. Fleet operators can supervise not just vehicle usage but also monitor the real-time status of every vehicle in the fleet. Preventive maintenance alerts can help them reduce down time during business hours. This also helps eliminate issues like fuel theft, or misuse of vehicles. Rash driving can be recognised by data patterns and required skill upgrade / training measures can be adopted. Thus, the operator is in full control of his fleet and can even remotely immobilize the vehicle if the need arises.

These 3W EVs can also be custom-built to act as garbage carriers, vegetable carts, or ice-cream vending vans, apart from making normal package deliveries.



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INDUSTRIAL FEATURES



POLICY SUPPORT

In India, the FAME II stimulus has been helpful in the growth of organised 3W EVs as it reduces the high sticker-price of 3-wheelers that run on Li-ion batteries. The cost difference between the commonly-in-use lead-acid battery and the more advanced Lithium-ion is usually between INR 100,000 to INR 200,000 for a 6kWh – 12kWh battery. But the incentives under FAME II on Lithium-ion battery EVs reduce this price difference quite effectively.

To sum up enterprises are increasingly becoming more aware that 3W EVs have a 45% advantage in 'Total Cost of Ownership' over ICE vehicles due to the lower operating expenses, maintenance costs as well as higher asset utilization (lower down time). Given that the nature of last-mile deliveries is such that the delivery begins from a designated warehouse with basic infrastructure, there is less anxiety for charging infrastructure in this segment



E-RICKSHAW

Passenger /e-Cart	1D+4P
Dimension- Length x Width x Height (mm)	2790 x 960 x 1800
Wheel Base (mm)	2180
Maximum GVW (kg)	710
Kerb Weight (kg)	325
Center Passenger Seat	YES
Leg Space (LxWxH) mm	600 x 950
Pay Load (Kg)	400
Top Speed (Km/h)	25-30
Gradeability (Degree)	7~10
Ground Clearance (mm)	180
Mileage (Km)	100
Suspension- Front	Telescopic
Suspension- Rear	Leaf Spring
Brake - Front	Drum Type
Brake - Rear	Drum Type
Tyre Size	3.75"-12"
Rim Type (Front/Rear)	Metallic





Battery Type, Voltage	Lead Acid, 48 V
Battery Capacity (Ah)	130-135
Charging Time 0-100% @ Standard Condition	8-9 HR
Battery Energy- (Kwh)	6.5
Battery Mass- (Kg)	27X4=108
Motor (Kw)	1 Kw BLDC
Peak Power-(Kw)	2
Peak Speed-(RPM)	3000
Transmission Type	Gear (Differential 33")
Speedometer	Analog
Roof Type	Hard Top,MS
Warranty	1Year
Wind Screen & Wrapping System	YES
Spare Wheel Provision	YES
Head Light Type	LED
Music System with Blue tooth	YES
Emergency Disconnect Switch	YES
Thermal Protection	YES
Over Voltage Protection	YES
Hazard Switch	YES
Telematics Units & GPS	NA

RICKSHAW (MS)



STANDARD E-RICKSHAW



FULLY-LOADED E-RICKSHAW



RICKSHAW (SS)

** Motorised Wiper & Alloy Wheels are only available in Fully Loaded E-Rickshaw*



E-AUTO

Passenger /e-Cart	1D+4P
Dimension- Length x Width x Height (mm)	2790 x 960 x 1800
Wheel Base (mm)	2180
Maximum GVW (kg)	710
Kerb Weight (kg)	325
Center Passenger Seat	YES
Leg Space (LxWxH) mm	600 x 950
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Roof Type	Hard Top,MS
Warranty	1Year
Wind Screen & Wrapping System	YES
Spare Wheel Provision	YES
Head Light Type	LED
Music System with Blue tooth	YES
Emergency Disconnect Switch	YES
Thermal Protection	YES
Over Voltage Protection	YES
Hazard Switch	YES
Telematics Units & GPS	NA

AUTO



AUTO





E-LOADER

Passenger /e-Cart	1D+1P
Dimension- Length x Width x Height (mm)	2790 x 960 x 1800
Wheel Base (mm)	2180
Maximum GVW (kg)	831
Kerb Weight (kg)	325
Center Passenger Seat	NO
Leg Space (LxWxH) mm	NA
Pay Load (Kg)	400-500
Top Speed (Km/h)	25-30
Gradeability (Degree)	7
Ground Clearance (mm)	200
Mileage (Km)	120
Suspension- Front	Telescopic
Suspension- Rear	Leaf Spring
Brake - Front	Drum Type
Brake - Rear	Drum Type
Tyre Size	3.75"-12"
Rim Type (Front/Rear)	Metallic





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Transmission Type	Gear (Differential 33")
Speedometer	Analog
Roof Type	Hard Top,MS
Warranty	1 Year
Wind Screen & Wrapping System	YES
Spare Wheel Provision	YES
Head Light Type	LED
Music System with Blue tooth	YES
Emergency Disconnect Switch	YES
Thermal Protection	YES
Over Voltage Protection	YES
Hazard Switch	YES
Telematics Units & GPS	NA

LOADER



LOADER





E-CARGO CART

Passenger /e-Cart	1D+1P
Dimension- Length x Width x Height (mm)	2790 x 960 x 1800
Wheel Base (mm)	2180
Maximum GVW (kg)	831
Kerb Weight (kg)	325
Center Passenger Seat	NO
Leg Space (LxWxH) mm	NA
Pay Load (Kg)	400-500
Top Speed (Km/h)	25-30
Gradeability (Degree)	7
Ground Clearance (mm)	200
Mileage (Km)	120
Suspension- Front	Telescopic
Suspension- Rear	Leaf Spring
Brake - Front	Drum Type
Brake - Rear	Drum Type
Tyre Size	3.75"-12"
Rim Type (Front/Rear)	Metallic





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Warranty	1 Year
Wind Screen & Wrapping System	YES
Spare Wheel Provision	YES
Head Light Type	LED
Music System with Blue tooth	YES
Emergency Disconnect Switch	YES
Thermal Protection	YES
Over Voltage Protection	YES
Hazard Switch	YES
Telematics Units & GPS	NA



E-CARGO CART



E-CARGO CART





E-GARBAGE VAN

Passenger /e-Cart	1D+1P
Dimension- Length x Width x Height (mm)	2790 x 960 x 1800
Wheel Base (mm)	2180
Maximum GVW (kg)	831
Kerb Weight (kg)	325
Center Passenger Seat	NO
Leg Space (LxWxH) mm	NA
Pay Load (Kg)	400-500
Top Speed (Km/h)	25-30
Gradeability (Degree)	7
Ground Clearance (mm)	200
Mileage (Km)	120
Suspension- Front	Telescopic
Suspension- Rear	Leaf Spring
Brake - Front	Drum Type
Brake - Rear	Drum Type
Tyre Size	3.75"-12"
Rim Type (Front/Rear)	Metallic





E-GARBAGE VAN

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Battery Capacity (Ah)	130-135
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Transmission Type	Gear (Differential 33")
Speedometer	Analog
Roof Type	Hard Top,MS
Warranty	1 Year
Wind Screen & Wrapping System	YES
Spare Wheel Provision	YES
Head Light Type	LED
Music System with Blue tooth	YES
Emergency Disconnect Switch	YES
Thermal Protection	YES
Over Voltage Protection	YES
Hazard Switch	YES
Telematics Units & GPS	NA





E-GARBAGE VAN



SAMPOORN EV PRODUCT PORTFOLIO

3W EV L3 (Registered)



www.sampoornev.com



SPECIFICATION	E-RICKSHAW	E-AUTO	E-LOADER	E-CARGO	E- Garbage Van
Passenger /eCart	1D+4P	1D+4P	1D+1P	1D+1P	1D+1P
Dimension- length x Width x Height (mm)	2790 x 960 x 1800	2790 x 960 x 1800	2790 x 960 x 1800	2790 x 960 x 1800	2790 x 960 x 1800
Wheel Base (mm)	2180	2180	2180	2180	2180
Maximum GVW (kg)	710	710	831	831	831
Kerb Weight (kg)	325	325	325	325	325
Center Passenger Seat	YES	YES	NO	NO	NO
Leg Space (LxWxH) mm	600 x 950	600 x 950	NA	NA	NA
Pay Load (Kg)	400	400	400-500	400-500	400-500
Top Speed (Km/h)	25-30	25-30	25-30	25-30	25-30
Maximum Gradeability (Degree)	7~10	7~10	7	7	7
Ground Clearance (mm)	180	180	200	200	200
Mileage (Km)	100	100	120	120	120
Suspension- Front	Telescopic	Telescopic	Telescopic	Telescopic	Telescopic
Suspension- Rear	Leaf Spring	Leaf Spring	Leaf Spring	Leaf Spring	Leaf Spring
Brake - Front	Drum Type	Drum Type	Drum Type	Drum Type	Drum Type
Brake - Rear	Drum Type	Drum Type	Drum Type	Drum Type	Drum Type
Tyre Size	3.75"-12"	3.75"-12"	3.75"-12"	3.75"-12"	3.75"-12"
Rim Type (Front/Rear)	Metallic	Metallic	Metallic	Metallic	Metallic
Battery Type, Voltage	Lead Acid, 48 V	Lead Acid, 48 V	Lead Acid, 48 V	Lead Acid, 48 V	Lead Acid, 48 V
Battery Capacity (Ah)	130-135	130-135	130-135	130-135	130-135
Charging Time 0-100% @ Standard Condition	8-9 HR	8-9 HR	8-9 HR	8-9 HR	8-9 HR
Battery Energy- (Kwh)	6.5	6.5	6.5	6.5	6.5
Battery Mass- (Kg)	27X4=108	27X4=108	27X4=108	27X4=108	27X4=108
Motor (Kw)	1 Kw BLDC	1 Kw BLDC	1 Kw BLDC	1 Kw BLDC	1 Kw BLDC
Peak Power-(Kw)	2	2	2	2	2
Peak Speed-(RPM)	3000	3000	3000	3000	3000
Transmission Type	Gear (Differential 33")	Gear (Differential 33")	Gear (Differential 33")	Gear (Differential 33")	Gear (Differential 33")
Speedometer	Analog	Analog	Analog	Analog	Analog
Roof Type	Hard Top,MS	Hard Top,MS	Hard Top,MS	Hard Top,MS	Hard Top,MS
Warranty	1Year	1Year	1Year	1Year	1Year
Wind Screen & Wrapping System	YES	YES	YES	YES	YES
Spare Wheel Provision	YES	YES	YES	YES	YES
Head Light Type	LED	LED	LED	LED	LED
Music System with Bluetooth	YES	YES	YES	YES	YES
Emergency Disconnect Switch	YES	YES	YES	YES	YES
Thermal Protection	YES	YES	YES	YES	YES
Over Voltage Protection	YES	YES	YES	YES	YES
Hazard Switch	YES	YES	YES	YES	YES
Telematics Units & GPS	NA	NA	NA	NA	NA

USP



Running-Cost
24 Paisa/Kms



Range per Charge
100-130/Kms



Maintenance Cost
Rs 80/Month



Battery Replacement Cost
Rs 833/Month



Insurance Cost
Rs 583/Month



Vehicle Shell Life
10 Years



Running
300 Kms/Day



Power-Consumption
4 Unit per Charge



Comfortable Ride

EV FEATURES



New Powerful
Technology



High Quality



Dust Tight &
Water Resistance



High Range
& Speed



More Powerful
Battery



More Convenient



Noise Free
Ride



Easy Parking



Stylish Design



Powerful Motor



Energy Efficiency



Good Storage Capacity



Tubeless Tyre

BATTERY

SPECIFICATIONS		LEAD - ACID		LITHIUM-ION	
BATTERY					
WEIGHT		120 - 130 kg		40 - 45 kg	
SPEED	Charge				
	100%	20-25 Km/hr		30 - 40 Km/hr	
	50%	10-15 Km/hr		30 - 40 Km/hr	
	10-15%	5 Km/hr		30 - 40 Km/hr	
CHARGING TIME		9 - 12 Hours		4 - 4.30 Hours	
DRIVING RANGE		80 - 90 Km		130 Km Plus	
WARRANTY		Month	Life of Battery	Month	Life of Battery
		6	8-9 months	36 months	2200 Life Cycle
		12	14-15 months		$2200/365 = 6.027\text{Years} = 72\text{Months}$

ADVANTAGE OF LITHIUM-ION BATTERY

Lithium-ion batteries are now become a new choice by manufacturers. Because of their high energy density, they have a lower weight; roughly 80-85 kg lighter than Lead-Acid battery resulting in increased overall mileage. These batteries are sturdy, long-lasting, and effective for comfortable rides, with a life duration of 1000 cycles (NMC) and 2200 cycles (LeFePo4). It creates hug impact on wear and tear of Vehicle performance; enhancing the life of motor and controller. These batteries require little to no maintenance. Lithium-ion batteries have many advantages in terms of safety and functionality compared to lead-acid batteries.

The key benefits include:

- ▲ Smaller yet powerful
- ▲ Stand up well to repeated charging and discharging
- ▲ Fast Charging possible
- ▲ Support Wireless Charging
- ▲ Do not self-discharge





SAMPOORN EV

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3W EV PARTS



12MM BRAKE DRUM



MUDGUARD



NUMBER PLATE BRACKET



BATTERY PATTI AND ROD



SHOCKER SET



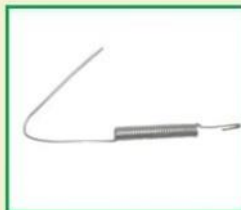
CAST STEEL CROWN GEAR



CY-GOLD-E-RICKSHAW-MOTOR-500X500



E RICKSHAW BRAKE CAM



E RICKSHAW BRAKE SPRING



E RICKSHAW BRAKE WIRE



E RICKSHAW CHARGING SOCKET



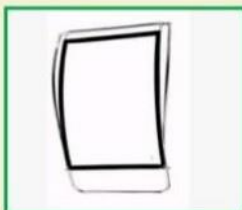
E RICKSHAW CHUCK NUT



E RICKSHAW DIFFERENTIAL



E RICKSHAW FRONT BUTTERFLY



E RICKSHAW FRONT GLASS



E RICKSHAW HANDLE HANGING



E RICKSHAW THROTTLE SET



E RICKSHAW WHEEL COVER



E-RICKSHAW BREAK PADDLE SPORT



HAND BRAKE FOR BATTERY RICKSHAW



IRON E RICKSHAW JHULA SHACKLE



IRON E RICKSHAW KAAH SET



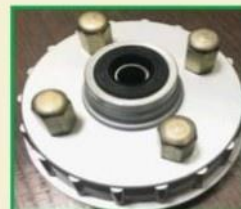
43MM - E RICKSHAW HANDLE T SET



ABS PLASTIC RIGHT LEFT SWITCH ASSEMBLY



PVC E RICKSHAW METER WIRE



BRAKE DRUM FRONT ASSEMBLIES



WHEEL RIM



SAMPOORN EV

A BRAND AGNOSTIC EV ECOSYSTEM

WARRANTY

PARTS NAME	3 WHEELERS WARRANTY	WARRANTY TERMS	ADDITIONAL WARRANTY
Chasis frame	2 Years	Any Manufacturing Defect	
Motor	1 Year	Any Manufacturing Defect	Extra 2 Years*
Lithium Ion Battery	3 Years	Any Manufacturing Defect	
Lead Battery	1 Years	Any Manufacturing Defect	
Controller	1 Year	Any Manufacturing Defect	Extra 2 Years*
Charger	1 Year	Any Manufacturing Defect	Extra 2 Years*
MCB	1 Month	Any Manufacturing Defect	
Meter	1 Month	Any Manufacturing Defect	
Relay	1 Month	Any Manufacturing Defect	
Tyre	1 Year	Any Manufacturing Defect	
Horn	1 Month	Any Manufacturing Defect	

**Additional Warranty to be purchased at the time of purchase of Vehicle within 3 months before the expiry of original warranty.*

ADDITIONAL ACCESSORIES



**Available at extra cost.*

ASSEMBLY UNIT





SAMPOORN EV
A BRAND AGNOSTIC EV ECOSYSTEM

ASSEMBLY UNIT





8 Value Added Services

ROAD SIDE ASSISTANCE:



Your travel savior in case of breakdown during travel.

ACCIDENTAL HOSPITALISATION DAILY CASH:

Cover your daily expenses during tough times of hospitalization



EMI PROTEKT:



To pay your monthly EMIs if you are admitted in hospital for more than 5 consecutive days in a month

DOCTOR ON CALL:

The Doctor in need when you are injured because of your bike's accident or similar incidents.



EXTENDED WARRANTY:



This extends the warranty of your vehicle after OEM warranty ends.

COMPULSORY PERSONAL ACCIDENT COVER:

Cover of up to Rs.15,00,000/- in case of rider's accidental death.



LOAN PROTEKT:



The Assurance of your remaining EMIs will be covered in case of owner's accidental death.

ADDITIONAL TYRE WARRANTY:

Any warranty claims for the tires of your Electric Vehicle that are rejected by the OEM, will be covered here.





SAMPOORN EV
A BRAND AGNOSTIC EV ECOSYSTEM

First Aid Kit For Our Electric Vehicles

Kit Items Include



Adhesive Kit



Small Dettol Liquid



Small Cotton Packet



Cipladine Ointment-10mg



Pain Killer



Small Dressing Roll



Aspirin Tablet



Pouch Containing



Tool Kit Pouch





SAMPOORN EV
A BRAND AGNOSTIC EV ECOSYSTEM

**THANK
YOU**





SAMPOORN EV

A BRAND AGNOSTIC EV ECOSYSTEM

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Devika Tower, Chander Nagar,
Ghaziabad, U.P-201011.



www.sampoornev.com

