E-Rickshaw (Electric tuk-tuks) Manufacturing Business.

How to Start Electric Vehicle Assembling Industry

[NPCS/5069/23380]

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Introduction

E-Rickshaws are small vehicles, with three wheels and use electric power from batteries to run. They use an electric motor as engine which draws electric power from the rechargeable batteries installed in the rickshaw body. These battery operated vehicles are perfect for small distant transport, both cargo and people; they are perfect for running on narrow streets because of their small size. But the biggest reason for their popularity is low operating cost and zero air pollution. In a nutshell you can say they are bigger version of rickshaws powered by electricity.
They are like normal rickshaws but powered by electric motor instead of petrol or diesel motor. They are perfect for a pollution free, environment friendly transport system in short distances. Actually they are not capable of running long distance.

E-rickshaws are now one of the preferred mode of transport in streets because of its low maintenance cost, low fuel cost, Eco-friendly, no noise pollution, easy to drive and last but not the least livelihood, e-rickshaw is a boon to the common man. Without putting in much physical efforts and without investing much amount of money, the earning is quite good for an e-rickshaw driver and hence it is an important means of livelihood for many.
These e-rickshaws consist of 3 wheels with a differential mechanism at rear wheels. Basically these vehicles has a mild steel tubular chassis. The motor is brush-less DC motor manufactured mostly in India and China. The electrical system used in Indian version is 48VDC can run 90–100 km/full charge, top speed 25 km/hour and this electric motor power ranging from 650-1400 Watts; the battery takes 8–10 hrs to become fully charged. Basic seating capacity is driver plus 4 passenger total 5 persons.

These vehicles are now started using in transporting light weight goods as e-loader. Hence there are lots of opportunities of income.
Below are some of the main reason why this e-rickshaw is going to get more support from people and from government in future:-

Eco-Friendly: Since this vehicle runs on electricity, it can never emit smoke. This way one can travel across the city without polluting the air. Batteries used in these vehicles can be recycled and can be disposed of without any problem.

Less Expensive: This e-rickshaw can be easily afforded by a middle class person who cannot shell out much money. No doubt, these vehicles are very economical for both passengers and drivers.

No Sound Pollution: This e-rickshaw produce less noise compared to vehicles which run on petrol and diesel. Since entire engine of this e-rickshaw runs with the electricity of the battery attached to the vehicle which results in less noise.
Maintenance: Since this vehicle has no engine, and gearbox maintenance of this vehicles comes very cheap. It’s very easy to charge the battery. All you need to do is, pay money for charging the battery.

Safety: E-rickshaw involves less risk compared to auto rickshaw which runs with fuel. They cause fewer accidents.

Fare and Cost of Vehicle: This e-rickshaw are affordable to buy, one can buy this vehicle at the price of a bike in India. One can buy this e-rickshaw at a price of 95,000 Rs. When it comes to motor rickshaw you need to spend 2 lakhs of rupees, which is too expensive.
Need of E-rickshaw:

As population increases there came to a need for the fast & eco-friendly mode of transports. Then started the evolution of electric vehicles especially E-rickshaws and electric automobiles. So many technologies were there which supported a reliable battery and the weight of the needed number of batteries elevated the price of making an electric vehicle.

Battery Rickshaw or the Electric Tricycle is the latest Eco Friendly vehicle which is most suitable for covering short distances.
E Rickshaws are three wheel battery operated vehicles, which are considered as an upgrade to conventional rickshaws, and economically better than auto rickshaws and other fuel variants, these rickshaws, since are battery powered have zero emission, and is often argued to be much better than other rickshaws as they are considered almost pollution free.

E rickshaw is a three wheel battery operated vehicle, which are considered as an upgrade to conventional cycle or pedal rickshaws, vastly popular in Asian countries and some South African regions and parts of Europe. It consist of an electric battery powered drive train and required no conventional fuel.
Market Outlook

Indian electric rickshaw market is projected to reach 935.5 thousand units by 2023, the market growth is majorly driven by government incentives and environmental policies, and declining battery prices. Passenger carriers held a larger share in the Indian electric rickshaw market in 2017, accounting for more than 95% revenue. They are expected to continue holding a larger market share in the coming years as well, on account of the large passenger base in the country, coupled with the growing demand for low-cost shared mobility.

Electric rickshaws with 1,000–1,500 W motor power contributed the largest share to the market during the historical period.
A large number of such rickshaws are equipped with 1,000–1,500 W motor, as it provides operational cost benefits. However, with the growing demand for quality products and the entry of big, organized players, the demand for vehicles equipped with higher-power motors is expected to increase in the Indian electric rickshaw market during the forecast period.

North India was the largest market for electric rickshaws during the historical period. The region contributed close to 70% volume share to the Indian electric rickshaw market in 2017. However, during the forecast period, the market is expected to witness the fastest growth in East India. One of the most important aspects of these e rickshaws are their contribution to the economy, as thousands of individuals become self-employed and they are earning their livings by driving these battery rickshaws on daily basis.
The demand for the rickshaws has significantly increased over the past few years owing to its low running costs that helps rake in higher profits. With people becoming conscious about the damage done by conventional fuels, the E-rickshaws are set to increase in popularity in the coming years.

The Indian electric rickshaw market is primarily dominated by a large number of small, unorganized local players, which accounted for around 85% of the sales in 2017. Some of the major players in the market are Lohia Auto Industries, Kinetic Green Energy and Power Solutions Ltd., Hero Electric Vehicles Pvt. Ltd., Terra Motors Corporation, Clean Motion India, and Saera Electric Auto Pvt. Ltd.
Machinery Photographs

Automatic Marking Machine

MIG Welding Machine
Compressor

Screw, Nut, Bolt Tightening Machine
## Project at a Glance

### COST OF PROJECT

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
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### MEANS OF FINANCE

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<td><strong>TOTAL</strong></td>
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## Project at a Glance

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<th>Year</th>
<th>Annualised Book Value</th>
<th>Debt Per Share</th>
<th>Dividend Per Share</th>
<th>Retained Earnings Per Share</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value</th>
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# Project at a Glance

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<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as-Deposits Equity</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Asset Turnover Ratio</th>
<th>Current Ratio</th>
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<td></td>
<td>Individually</td>
<td>Cumulative</td>
<td>Overall</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<td>Initial</td>
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<td>19.47%</td>
<td>10.00%</td>
<td>6.50%</td>
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<td>1.56</td>
<td>1.56</td>
<td>2.14</td>
<td>19.47%</td>
<td>10.00%</td>
<td>6.50%</td>
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<td>2-3</td>
<td>1.55</td>
<td>1.39</td>
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<td>1.19</td>
<td>21.38%</td>
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<td>23.97%</td>
<td>18.78%</td>
<td>11.88%</td>
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### Project at a Glance

<table>
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<th>BEP</th>
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<td>BEP - Maximum Utilisation Year</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
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<tr>
<td>Total BEP (% of Installed Capacity)</td>
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<tr>
<td>IRR, PAYBACK and FACR</td>
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<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>24.22%</td>
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<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2 Years 4 Months</td>
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<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>5.125</td>
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</table>
1. What is E-Rickshaw Assembling industry?

2. How has the E-Rickshaw Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of E-Rickshaw Assembling Plant?

4. What are the requirements of Working Capital for setting up E-Rickshaw Manufacturing plant?
5. What is the structure of the E-Rickshaw Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up E-Rickshaw Assembling Business?

7. What are the operating costs for setting up E-Rickshaw Assembling plant?

8. What are the machinery and equipment requirements for setting up E-Rickshaw Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up E-Rickshaw Assembling plant?

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24. What is the Sensitivity Analysis-Price/Volume of E-Rickshaw Assembling plant?

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4. CONSTRUCTION OF E RICKSHAW
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    8.1. Three-Wheelers
    8.2. E Rickshaws
    8.3. Newly Emerging Indicators
8.4. Leading Brands
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9. EXPORT & IMPORT: ALL COUNTRIES

10. EXPORT & IMPORT STATISTICS DATA OF INDIA

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13. QUALITY CONTROL
13.1. Motor
13.2. Motor Controller and the Power Supply System
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• Assumptions for Profitability workings
• Plant Economics
• Production Schedule
• Land & Building

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2. Plant Economics
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4. Land & Building

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- Resultant DER
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<th>Annexure</th>
<th>Description</th>
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<td>21</td>
<td>Employees Expenses</td>
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<td>22</td>
<td>Fuel Expenses</td>
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<td>Administration Expenses</td>
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<td>28</td>
<td>Selling Expenses</td>
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Reasons for Buying our Report:

• This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product.

• This report provides vital information on the product like it’s characteristics and segmentation.

• This report helps you market and place the product correctly by identifying the target customer group of the product.
• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials

• The report provides a glimpse of government regulations applicable on the industry

• The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions
Our Approach:

- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players.
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report.

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Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on E-Rickshaw Assembling.” provides an insight into E-Rickshaw market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of E-Rickshaw project. The report assesses the market sizing and growth of the Indian E-Rickshaw Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

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• Good Present/Future Demand
• Export-Import Market Potential
• Raw Material & Manpower Availability
• Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the E-Rickshaw sector in India along with its business prospects. Through this report we have identified E-Rickshaw project as a lucrative investment avenue.

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Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.
And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,
Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

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106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com, info@entrepreneurindia.co
Tel: +91-11-23843955, 23845654, 23845886, 8800733955
Mobile: +91-9811043595
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Who are we?

- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services
- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients’ in India & abroad
We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.
We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.
What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Business Plan
- Technology Books and Directory
- Industry Trend
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- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)
How are we different?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision
Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation
Contact us

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106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: _npcs.ei@gmail.com_ , _info@entrepreneurindia.co_

Tel: +91-11-23843955, 23845654, 23845886, 8800733955
Mobile: +91-9811043595
Fax: +91-11-23845886

Website : _www.entrepreneurindia.co_ , _www.niir.org_

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