

Hebei New Universe Electrical Motor Company
Introduction of the Project Construction for Annual Production of
Thirty Thousand Electric Vehicles

Basic information of the enterprise: Hebei New Universe Electrical Motor Company is one of the electric vehicles manufacturer among which began to produce various kinds of electric vehicles earlier in the domestic (produced and exported to Japan the first right steering wheel electric vehicle in June of 2006), registered the brand of “Yuedi” in the State Administration of Industry and Commerce in 2008, and the factory site is located in the Equipment Manufacturing Base of Shijiazhuang with good reputation in the industry. The market demand is extending and potential is huge.

Contents of the project: To annually produce thirty thousand electric vehicles. It, determined to be the major project of Hebei Province by the provincial government in 2010, is the listed key construction project to be supervised by Shijiazhuang municipal government. The project covers an area of 350.8 mu with a total investment of 1.06 billion yuan, including investment in the fixed assets of 880 million yuan and liquid capital of 180 million yuan. The Equipment Manufacturing Base is located in Shijiazhuang.

The necessity of the project construction: First, Hebei New Universe Electrical Motor Company is a professional enterprise in the electric vehicle manufacture, whose technology is supported by the technical guidance of Academician Yang Yusheng of the Chinese Academy of Engineering and developed by the Electric

Vehicle Research & Manufacture Center of Hebei University of Science and Technology, so that the demands of products exceeds the supplies and couldn't meet the needs of the market, thus it is anxious to expand the production field. Second, it is encouraged and supported by the national industrial policy to the new energy electric vehicle, which is energy saving, environmental friendly, zero release and pollution free. Third, it is beneficial to dive the rapid development of the local economy. Forth, it is good for the social stability and increase the re-employment opportunity. Last, the company is researching and developing a new energy electric vehicle with the combination of the wind power generation, braking frictional generator, power supply by solar energy and automatically wireless induction charging, to fill this blank of the world.

The project construction conditions: The project is selected to be constructed in the Equipment Manufacturing Base of Shijiazhuang (Yuanshi Zone) with the convenient location and transportation. It is close to the Beijing-Zhuhai Expressway and 107 National Highway and the land of 350.8 mu is ready. The project conforms to the national industrial policy with mature technology, steady quality, broad market prospect, pollution free and remarkable economic and social benefits, available from the technical, economic and environmental aspects.

Main energy sources: lead-acid battery and lithium-ion battery

Product description:

①、**YD-D2 (Electric Car) :**

Dimension (L×W×H) : 4155mm×1645mm×1435mm

Motor: DC separately excited with brush,



10kw, 3500 rotation, 120 V

Electronic control: DC separately excited, 120V, 400A,

Automatic power off, low-voltage protection

DCDC: 120V, 30A

Charger: 120V, 30A

Battery: lithium-ion battery,

Single battery of 3.75 V, 96 batteries series parallel to 120 V

Maximum speed: 100km/h

Running distance: 180 km

Charging time: 3-4 hours

The most outstanding features of this car are energy saving, light and simple. There are only three manufacturers in domestic: Chery, BYD and our company. It equips with air condition, ABS, SRS, brake booster, power-assisted steering, etc. belonging to medium and top grade car equipment, with the selling price of 100,000 to 130,000 yuan, mainly sold to Japan, South Korea, Taiwan and some occident countries.

②、YD-D5 (Coupe) :

Running distance (km): 150

L×W×H (mm): 3190×1670×1530

Wheelbase (mm): 2060

Curb weight (kg): 824

Minimum ground clearance (mm): 200

Passenger capacity (person): 2-4



Minimum turning radius (m): 5

Maximum Speed (km/h): 60

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25%

Braking distance: 4m

Battery: lead-acid battery, maintenance free, semi-colloidal

Battery capacity: 12V/150AH*6pcs

Weight of battery: 39kg

Motor power (kw): 5

Voltage: 72V

Electric system: 12DC

Controller: 72V

Charger: 72V, 20A

Charging time: 7-8 hours

Tire specifications: 165/70/R14

The most outstanding features of this car are small and exquisite, small power consumption, easy to charge and convenient in using and maintenance, with broad market and easy promotion. It is supplying to the domestic market, whose selling price is 30,000 to 50,000 yuan.

③、YD-C1 (Electric forklift) :

L×W×H (mm): 3340×1150×2250

Motor: (Travel motor: 1.5Kw, Pump motor: 1 Kw) 60V

Electronic control: 60V, Automatic power off,

low-voltage protection

Charger: 60V, 18A

Battery: lead-acid battery 12V/124AH* 5pcs

Maximum speed: 25km/h

Charging time: 8-10hours

Lifting capacity: 2 T

Lifting height: 1600 to 2000 m

The most outstanding feature of this vehicle is more energy saving than traditional diesel forklift for over 24 times, with high safety coefficient, noise free and pollution free, applicable to cargo handling of pharmacy, food, spinning, storage, etc.

The selling price is 40,000 to 60,000 yuan.



④、YD-F (Electric truck) :

Model name: Pure electric vehicle YD-F

Running distance (km): 100

L×W×H (mm): 4415×1690×1980

Wheelbase (mm): 2560

Minimum ground clearance (mm): 260

Passenger capacity (person): 2

Minimum turning radius (m): 5



Maximum speed (km/h): 50

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25%

Braking distance: 4m

Battery: lead-acid battery, maintenance free, semi-colloidal

Battery capacity: 12V/100AH*10pcs

Weight of battery: 33kg

Motor power (kw): 8.5

Voltage: 120V

Electric system: 12DC

Controller: 120V

Charger: 120V, 15A

Charging time: 12 hours

Tire specifications: 165/70/R14

The most outstanding features of this vehicle are energy saving, zero release and pollution free, applicable to warehousing transport, medium and small urban logistics and allocation, short distance transport, etc., with the advantages of simple handling and low operating cost comparing with the traditional gasoline truck. The selling price is 40,000 to 50,000 yuan.

Another several models are as follow :

1. Model: YD-A1

Running distance (km): 120-150

Transmission: automatic gear shifting / manual operation

L×W×H (mm): 2450×1500×1520

Wheelbase (mm): 1780

Curb weight (kg): 850

Minimum ground clearance (mm): 750

Passenger capacity (person): 2

Minimum turning radius (m): 6

Maximum speed (km/h): 60

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m

Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*8pcs

Weight of battery: 38kg

Motor power: 4kw

Voltage: 48V, 60V, 72V

Electric system: 12DC



Controller: 48v

Charger: 48V, 60V, 72V

Charging time: 7 hours

Tire specifications: 145/70/R12

2. Model: YD-A2

Running distance (km): 150-200

Transmission: automatic gear shifting / manual operation

Maximum speed (km/h): 65-70

L×W×H (mm): 3400×1500×1510

Wheelbase (mm): 2190

Curb weight (kg): 850

Minimum ground clearance (mm): 180

Passenger capacity (person): 4

Minimum turning radius (m): 6

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m

Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*8pcs

Weight of battery: 40kg



Motor power: 4kw

Voltage: 48V, 60V, 72V

Electric system: 12DC

Controller: 48v

Charger: 48V, 60V, 72V

Charging time: 7 hours

Tire specifications: 145/70/R12

3. Model: YD-A4

Running distance (km): 150-200

Transmission: automatic gear shifting / manual
operation

Maximum speed (km/h): 65-70

L×W×H (mm): 3335×1620×1500

Wheelbase (mm): 2180

Curb weight (kg): 850

Minimum ground clearance (mm): 160

Passenger capacity (person): 4

Minimum turning radius (m): 6

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m



Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*8pcs

Weight of battery: 40kg

Motor power: 4kw

Voltage: 48V, 60V, 72V

Electric system: 12DC

Controller: 48v

Charger: 48V, 60V, 72V

Charging time: 7 hours

Tire specifications: 145/70/R12

4. Model :YD-A6

Running distance (km): 150-200

Transmission: automatic gear shifting / manual operation

Maximum speed (km/h): 65-70

L×W×H (mm): 4070×1650×1400

Wheelbase (mm): 2340

Curb weight (kg): 950

Minimum ground clearance (mm): 180

Passenger capacity (person): 5

Minimum turning radius (m): 8

Drive type: rear wheel drive

Steering system: rack-and-pinion steering



Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m

Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*8pcs

Weight of battery: 40kg

Motor power: 4kw

Voltage: 48V, 60V, 72V

Electric system: 12DC

Controller: 48v

Charger: 48V, 60V, 72V

Charging time: 7 hours

Tire specifications: 145/70/R12

5. Model :YD-A7

Running distance (km): 120-150

Transmission: automatic gear shifting

Maximum speed (km/h): 65

L×W×H (mm): 2450×1500×1500

Curb weight (kg): 650

Minimum ground clearance (mm): 160

Passenger capacity (person): 2

Minimum turning radius (m): 4

Drive type: rear wheel drive



Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m

Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*5pcs

Weight of battery: 40kg

Motor power: 3kw

Voltage: 60V

Electric system: 12DC

Controller: 60v

Charger: 60V

Charging time: 6 hours

Tire specifications: 145/70/R12

6. Model :YD-A8

Running distance (km): 150-200

Transmission: automatic gear shifting / manual
operation

Maximum speed (km/h): 65-70

L×W×H (mm): 3300×1550×1600

Wheelbase (mm): 2170

Curb weight (kg): 850

Minimum ground clearance (mm): 200



Passenger capacity (person): 4
Minimum turning radius (m): 6
Drive type: rear wheel drive
Steering system: rack-and-pinion steering
Parking braking mode: hand / rear wheel brake
Maximum climbing capacity: 25-30°
Braking distance: 6m
Battery: lead-acid maintenance battery
Battery capacity: 12V/140AH*8pcs
Weight of battery: 40kg
Motor power: 4kw
Voltage: 48V, 60V, 72V
Electric system: 12DC
Controller: 48v
Charger: 48V, 60V, 72V
Charging time: 7 hours
Tire specifications: 145/70/R12

7. Model :YD-A9

Running distance (km):120-150
Transmission: automatic gear shifting
L×W×H (mm): 3475×1520×1510
Wheelbase (mm): 2265
Curb weight (kg): 880



Minimum ground clearance (mm): 150

Passenger capacity (person): 4

Minimum turning radius (m): 6

Maximum speed (km/h): 60

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m

Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*8pcs

Weight of battery: 40kg/pc

Motor power: 4kw

Voltage: 48V

Electric system: 12V DC

Controller: 48V

Charger: 48V

Charging time: 7 hours

Tire specifications: 145/70/R12

8. Model :YD-D1

Running distance (km): 150-200

Transmission: automatic gear shifting / manual operation



Maximum speed (km/h): 65-70

L×W×H (mm): 3350×1500×1600

Wheelbase (mm): 2220

Curb weight (kg): 850

Minimum ground clearance (mm): 170

Passenger capacity (person): 4

Minimum turning radius (m): 6

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m

Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*8pcs

Weight of battery: 40kg

Motor power: 4kw

Voltage: 48v, 60V, 72V

Electric system: 12DC

Controller: 48v

Charger: 48v, 60V, 72V

Charging time: 7 hours

Tire specifications: 145/70/R12

9. Model :Two rows of police car YD-J1

Running distance (km): 150

Transmission: automatic gear shifting

L×W×H (mm): 3000×1450×2200

Wheelbase (mm): 2005

Curb weight (kg): 880

Minimum ground clearance (mm): 160

Passenger capacity (person): 4

Minimum turning radius (m): 6

Maximum speed (km/h): 65-70

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m

Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*8pcs

Weight of battery: 40kg/pc

Motor power: 4kw

Voltage: 48v, 60V, 72V

Electric system: 12V DC

Controller: 48V, 60V, 72V

Charger: 48V, 60V, 72V



Charging time: 7 hours

Tire specifications: 145/70/R12

10. Model : YD-J2

Running distance (km): 150

Transmission: automatic gear shifting

L×W×H (mm): 3600×1450×2200

Wheelbase (mm): 2005

Curb weight (kg): 900

Minimum ground clearance (mm): 160

Passenger capacity (person): 6

Minimum turning radius (m): 6

Maximum speed (km/h): 65

Drive type: rear wheel drive

Steering system: rack-and-pinion steering

Parking braking mode: hand / rear wheel brake

Maximum climbing capacity: 25-30°

Braking distance: 6m

Battery: lead-acid maintenance battery

Battery capacity: 12V/140AH*8pcs

Weight of battery: 40kg/pc

Motor power: 4kw

Voltage: 48V

Electric system: 12V DC



Controller: 48V

Charger: 48V

Charging time: 7 hours

Tire specifications: 145/70/R12

Market forecasting: Hebei New Universe Electrical Motor Company is the electric vehicle manufacturer started earlier in North China. In 2006, it produced the first domestic batch of right steering wheel high-grade electric vehicle with the lithium-ion battery and exported to Japan, receiving the affirmation of the Japanese clients and experts. The company researches and develops the special purpose electric vehicle for special crowd, special environment and special service division by the flexible production and management mode. The annual production of 6,000 units could no longer meet the demands. After the long-term market survey, the company found that North China alone needs more than 100,000 electric vehicles annually. Additionally, after the entry into WTO with less export barrier, the overseas order is like an endless stream, so that even we expand the annual production capacity to 30,000 units, the demands is far to be met.

Investment estimate and capital source: The total investment of RMB 1.06 billion, including construction investment of RMB 880 million, initial working capital of RMB 180 million. Enterprise raised capital of RMB 580 million, and draft domestic and overseas capital of RMB 480 million.

Economic and efficiency analysis: Annual profit of RMB 606,162,000, annual profits and taxes of RMB 806,713,000, investment profit ratio of 57.27%, profit and tax investment ratio of 76.1%, and period for recovery of investment of 4.2 years.

Cooperative methods: Seek for joint venture partners, the proposed use of overseas capital of RMB 480 million.

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