REION

TAKING MADE IN INDIA BUSES TO THE WORLD

CONTACT US ANYTIME

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REION

YOUR PARTNER TO DRIVE PROFIBILITY

REION has an electric e-bus production plant in Hyderabad, India, with an annual production capacity of over 1000 e-buses. Furthermore, REION designed and built an e-bus for BHEL, which is marketed as a BHEL Bus. Each of these buses are air-conditioned and also has air suspension. With the exception of the motor, ancillary components, and batteries, each device is designed in-house and manufactured in India.

REION e-bus will be suitable for delivering low-cost transportation to the general public throughout municipalities. These buses can also be utilized as intercity buses throughout the day.

Reion has designed a number of different settings, such as ordinary and semi-luxury seating arrangements, to provide for a variety of diverse applications, including ambulances and other unique designs, such as emergency vehicles and mobile medical operating theatres. Reion's experience extends beyond bus manufacture to the creation of the necessary infrastructure for charging stations at depots for the relevant municipality, as well as their maintenance under agreed-upon conditions.

Details, including costs, are supplied in an addendum to this instructive leaflet, along with crucial technical information. It is our responsibility to notify you and respond to any extra requirements your company may have that we may accommodate into our design.

PASSENGER SAFETY

REION

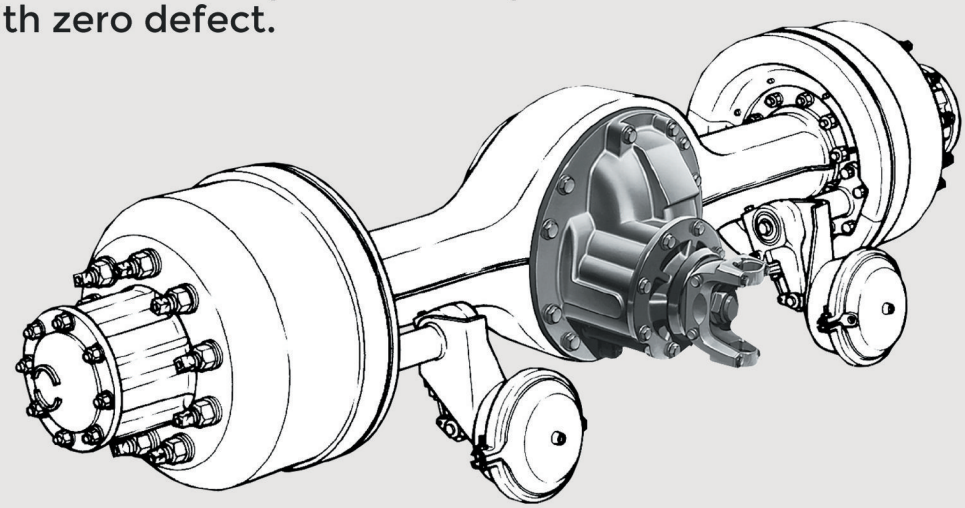
Passenger safety is the prime focus when it comes to the design of our buses. The Monocoque design makes sure that in case of an head on collision, the passenger compartment does not collapse there by protecting the passengers from getting crushed.

Every element of the structure is designed and fabricated with the best of material adhering to the Strongest quality standards. The welding is done by certified welders on jigs and fixtures.

The roll over tests confirm the ability of the structure to withstand the impact loads that tend to crush the structure in the vent of a toppling of the bus. The Center of Gravity is kept a a low point to make sure that the stability of the bus is very high in bad road condition and also during any side impact of collision.

QUALITY CONTROL

We use the best of equipment in the industry and trained manpower the bus is 'sculpted' to perfection in work factory. The supervisors and the workmen are picked up after elaborate testing procedure and then trained before they are allowed to work on the production. The drive to produce a bus is passion. The passion to make sure that the product run with zero defect.



The best of the aggregates are used when it comes to the rear axle, Brakes, suspension and air compressor. The components are procured from top companies like, WABCO, Merritor, Haritasa, TVS etc

ESP intervenes to restore directional stability when there is a difference between the driver's input (the direction wished for by the driver) and the vehicle's actual movement. During "under-steer", i.e. when the vehicle travels on a greater radius than that defined by the steering wheel angle, the vehicle is turned back onto the 'correct' course by ESP applying the brakes at the inside rear wheel.

BUS TECHNOLOGY

Designed In house to suit the customer requirement

Our buses are built on a complete monocoque structure enabling them for a steady motion supported by high performance shock absoring suspension system linked with hydraulic steering. Bringing out the best in monouvering the vehicle in the city alongwith highly powered propeller mounted in the middle of the vehicle with an ease of access.

Structuring

Built on a Monocoque with a tubular structure.

Aggregates

The REION buses are built with a sound vision of existence and penetration. To deliver the best of the product to the end users and its commuters REION not compromising has partnered with the best & established providers of the aggregates.

Operating System

Sophisticatedly built & placement of components makes it easy to comfortably assist in operating the vehicle with easy access and maintenance.

USP

Belt less gear box. Gearless drive system. Steering without belts. Easy removable battery slot from the side flaps. Super Charge to charge the battery in 40 minutes as compared to

Safety & Comfort

Keeping in view of the road conditions REION has built the buses with appropriate Safety & Comfort being high priority. Built on a Monocoque structure, supported by the Air Supension system, disc & drum braking system.

CITY LINK LUXURY

REION

With the city link luxury bus range you get clean, silent and efficient public transport, a new level of capacity, and our flexible charging concept ensures operation on your current schedule. With our electric buses, services and Reion as your partner, your city can take the next step in the transformation towards a Zero City.

The city link luxury Its intelligent interaction between innovative battery and charging technology, networking of IT and communication systems, and not least its striking futuristic design make it the new standard for electric city buses, ready today for the city of tomorrow.

CITY LINK LUXURY

ELECTRIC CITY BUS TECHNICAL SPECIFICATION

REION

Specification proposed

Bus Dimensions in mm

Length, mm:12000
Width, mm: 2590
Height, mm: 3300
Wheel Base, mm: 6000
Floor height above ground (mm)- maximum: 1200

Performance

Grade ability from stop at GVW:17%
Acceleration @ GVW 0-30 km ph.: ≤ 10 sec
GVW, kg (Assuming 43 seats + 37 standees: 18000
Maximum speed km/hr.: 80 locked as per std. can be adjusted for higher speed of 100
Range in single charge: 250 /300km

Traction motor

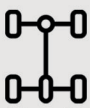
Motor Type:PMSM
Rated Power, kW: 200
Rated Torque, Nm: 1200
Motor Environment Protection Level: IP67
Drive: Centrally
Regenerative braking system: Yes
Motor cooling: Liquid

Main traction Battery Capacity

Battery Type: Advanced Li-ion
Battery Pack Protection Level: IP67
Battery liquid Cooling System: Yes
Battery Capacity: 300 Kwh
Warranty: 5 Years

Charger

Charging Power (Battery capacity): 120Kw



Chassis

Type: Monocoque
Suspension Front: Air suspension
Suspension rear: Air suspension
Suspension control: Electronic
Anti-roll bars / stabilizers: Yes
Shock absorbers: Hydraulic double acting 2 at front
Kneeling mechanism: Yes
Brakes: Energy storage spring acts on the Dual circuit air brake system
Parking Brakes: rear wheel
Electronically controlled Anti-skid anti brake locking system (ABS): Yes
Tyre: 275/80R22.516PR
Steering: Hydraulic Power steerin

ITS Feature

WiFi: Yes
CCTV: Yes
Multimedia (PA System + Radio): Yes
Display Board (LED Front, Side and Rear): Yes
AC Cooling capacity: 37
Auxiliary Charging port: Yes

Guarantee

18 months or 150,000 km which ever is earlier

REION

CITY LINK STANDARD

Exceptionally quiet, emission-free, distinguished by its modern design and guaranteeing low operation costs - discover the benefits of the city link standard electric bus. Thanks to innovative technical solutions electric buses can operate for an unlimited time, up to 24 hours a day.

Moreover, their low noise emission and vibration level makes battery buses particularly suited for use in city centres.

The vehicle is available in both a low-floor and low-entry variants

CITY LINK STANDARD

ELECTRIC CITY BUS TECHNICAL SPECIFICATION

Specification proposed

Bus Dimensions in mm

Length, mm:12000
Width, mm: 2590
Height, mm: 3300
Wheel Base, mm: 6000
Floor height above ground (mm)- maximum: 400

Performance

Grade ability from stop at GVW:17%
Acceleration @ GVW 0-30 km ph.: ≤ 10 sec
GVW, kg (Assuming 43 seats + 37 standees: 18000
Maximum speed km/hr.: 80
Range in single charge: 200km

Traction motor

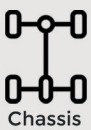
Motor Type:PMSM
Rated Power, kW.: 200
Rated Torque, Nm: 1200
Motor Environment Protection Level: IP67
Drive: Direct drive
Regenerative braking system: Yes
Motor cooling: Liquid

Main traction Battery Capacity

Battery Type: Advanced Li-ion
Battery Pack Protection Level: IP67
Battery liquid Cooling System: Yes
Warranty: 5 Years

Charger

Charging Power (Battery capacity): 120Kw (Fast charging)



Chassis

Type: Monoque
Suspension Front: Leaf spring
Suspension rear: Air suspension
Suspension control: Manual valve
Anti-roll bars / stabilizers: -
Shock absorbers: Yes
Kneeling mechanism: No
Brakes: Dual circuit air brake system
Parking Brakes: Energy storage spring acts on
Electronically controlled Anti-skid anti brake locking system (ABS): Yes
Tyre: 275/80R22.516PR
Steering: Adujustable

ITS Feature

WiFi: Yes
CCTV: Yes
Multimedia (PA System + Radio): Yes
Display Board (LED Front, Side and Rear): Yes
AC Cooling capacity: 37
Auxiliary Charging port: Yes

Guarantee

12 months or 120,000 km which ever is earlier