



Able Design Engineering Services Pvt. Ltd.

Catalyst For Your Success.....

Company Profile

Vision – To see India Ranks 1st in Global Innovation Index



ABLE Design is a professionally managed Global Design Engineering Services Company

• ESTABLISHED	2005
• EMPLOYEES	80+
• LANDSCAPE	65340 Sq.ft
• LOCATION TYPE	Industrial IT Park
• BUILTUP AREA	6000 Sq.ft





Major Domains

INDUSTRY VERTICALS

MASS TRANSPORTATION

MEDICAL & INDUSTRIAL ENGINEERING

COMMERCIAL KITCHEN EQUIPMENTS

What we do

INDUSTRIAL DESIGN



REVERSE ENGINEERING



DESIGN ENGINEERING



SOFTWARE SOLUTIONS



FINITE ELEMENT ANALYSIS



STAFFING SERVICES



Industrial Design Aesthetics & styling

Design Engineering

- **3D Solid Modeling** (Nx, Solid Edge, Solid Works, Catia, ProE)
- **Surface Modeling (CAS)** (Catia, NX)
- **Drafting & Detailing**
- **Sustaining Engineering**

Certification of Buses

- **Bus Certification - AIS 052 & AIS 119**
- **Rollover Analysis - AIS 031**
- **Seat Analysis - AIS 023**
- **Front/Rear Impact Test**
- **SUPD & RUPD**
- **On Road Validation**

CAPABILITIES

- **CAD/ CAM/CAE Softwares**
- **Contract Staffing Solutions**
- **Software Sales**
- **Training**

Prototyping/Mockups

- **FRP/ Sheet Metal**
- **Product Certification**
- **Strategy Development for Indigenizing and sourcing the components locally**
- **Sourcing and Strategic Development**

One Stop Shop For Design Engineering Solutions

Jagadish K Hiremath

Managing Director
23+ years Exp

Qualification :

- Post Diploma in Management of Small and Medium Enterprises
- Diploma in Tool & Die Making

Expertise :

- 12 years of successful Entrepreneurship in building Design Services and Innovative Products focusing on Mass Transportation, Commercial Kitchen Equipments and Medical Products Industries
- Actively Associated as Charter Member of TiE Hubli and Member of CII, North Karnataka

Vilas Joshi

General Manager
35+ years Exp

Qualification :

- Diploma in Mechanical Engineering (General)

Expertise :

- Worked in accreditation of DIN standards for Products
- Product Design, Manufacturing QC/QA
- Plant Administration
- Quality control & assurance
- Production & maintenance of machine tools
- Design engineering & management
- Human relation & administration

Narayan Tosur

Director Operations
24+ years Exp

Qualification :

- B E in Mechanical Engineering

Expertise :

- Over 24+ years of deep experience in Engineering and Engineering Services across Industrial, Semiconductor, Consumer Appliances & Rail Transportation verticals
- Six Sigma Black Belt & Green Belt Certified
- Product Design & Development
- Strategic Planning
- Program Management
- Value Engineering
- Manufacturing QC/QA

V S Imadi

Sr. Manager – Quality/Projects
30+ years Exp

Qualification :

- Diploma in Mechanical Engineering

Expertise :

- Have total of 30+ years of experience in 3Ph ac Induction motor Industries
- Product Design & Development
- Automation & Fixture design for automotive products.
- Proficient in Manufacturing process and materials
- Environmental Testing & Quality- Inspection.

Core Team

Deepak Bajagoli

Sr. Manager Projects
20+ years Exp

Qualification :

- Diploma in Tool & Die Making

Expertise :

- Product Design & Development
- Specialized in Bus door Designs (In-swing, Out-Swing, Jack-knife doors)
- Automation & Fixture design for automotive products.
- Proficient in Manufacturing process and materials
- Environmental Testing & Quality- Inspection.

Arvind. A. Pandurangi

Sr. Manager Projects
18+ years Exp

Qualification :

- Diploma Mechanical Engineering
- Post Diploma in Tool Design

Expertise :

- Worked with various Automotive Majors, supporting TVS
- Developed various press tools for Automotive Components
- Design and Engineering Tool and die for plastics, FRP & Composite materials
- Good experience in Quality Matrix

Balaganesan C Arumugam

Sr. Manager Projects
14+ years Exp

Qualification :

- BE in Mechanical Engineering
- Diploma in Mechanical Engineering

Expertise :

- 14+ years of experience in Engineering Design and Development

Ranjeet Kumar Thakur

Manager - Projects
6+ years Exp

Qualification :

- BE in Mechanical Engineering

Expertise :

- Design and development of staff and school buses (64 variant) for Ashok Leyland
- Managed Hybrid bus Design and Prototyping support for TATA
- Design and Engineering for City Buses for Export market
- Worked on Design Engineering and certification of Bus Body
- Understanding Project scope, Project Estimate, Scheduling, Delivery plan and Project execution.
- Good in Customer relationship, Communication, Team building and leadership qualities

Umesh kadakol

Manager – Projects
9.5+ years Exp

Qualification :

- Diploma in Tool & Die Making

Expertise :

- Currently handling bus body certification for major leading clients in India
- Good in Customer relationship, Communication, Team building and leadership qualities
- Press Tool and Mould Design & Development
- Automation & Fixture design for automotive products.
- Proficient in Manufacturing process

Abdul Rafiq Soudagar

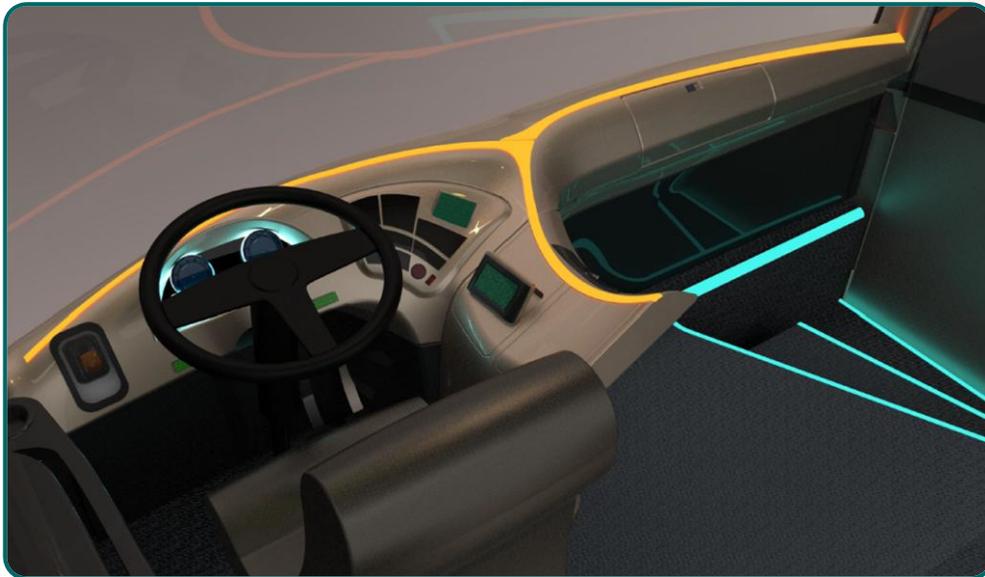
Manager – Projects
7+ years Exp

Qualification :

- B E in Mechanical Engineering
- Diploma in Automobile Engineering

Expertise :

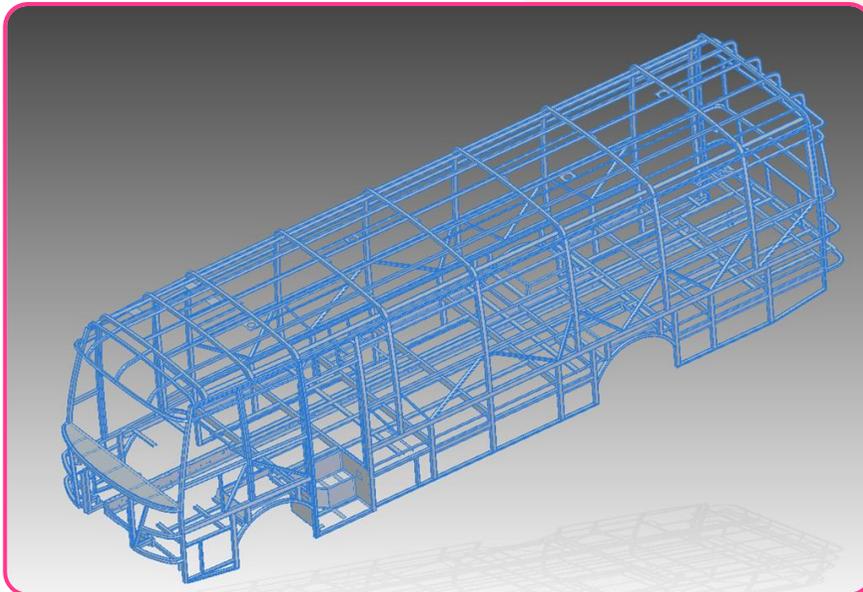
- Designed & Developed New product with Patent registration.
- Familiar with Production planning, Man hour control, Job analysis.
- Proven ability on projects within scheduled time, cost & quality parameters.
- Highly seasoned in homologation (Bus body Certification, Design, Engineering and CG Calculation)
- Lead project on Hybrid Bus for TATA
- BIW fixture for automobiles



- Design Research (product/ market/ user study)
- Ergonomic Study
- Conceptualization (concept sketches)
- 3D rendered images submission
- Customer feedback
- Surface modeling of front & rear FRP from styled data
- Modification of FRPs to accommodate structure
- Surface modeling of Dash board
- DQ verification
- Drawing with complete GD & T
- 2D/ 3D drawing release
- Meshing
- Roll over Analysis
- Design modification & validation
- Material testing & Report generation



- Surface modeling of front & rear FRP from styled data
- Modification of FRPs to accommodate structure
- Surface modeling of Dash board
- Gaps & Interface checking & fixing
- Checking design & dimensions as per AIS 052 & UBS II
- DQ verification
- Regularize if any mismatch found between CAD drawing & physical part.
- Drawing with complete GD & T
- 2D/ 3D drawing release
- Design modification & validation
- Submission of design data to ARAI
- Modification according to feedback from ARAI
- Homologation as per AIS 052 & UBS – II
- Indigenization of Spanish Bus Design



- Data Integration & Reverse Engineering of bus body variants for Staff & School Applications.
- Scanning of FRP parts (Front Fascia , Rear Fascia , Dash Board)
- Integration of Proprietary parts
- Integration of chassis and bus body
- Layouts for Homologation Certification
- 2D/3D release through ENNOVIA & LEAP through VVC.

Bus Door Solutions



Jack Knife Single and Double Bus Door



Camozzi Bus Door Kit



Driver Door

Emergency Door



Roof Escape Hatch



Out-Swing Bus Door & In-Swing Bus Door



Bus Door Kit

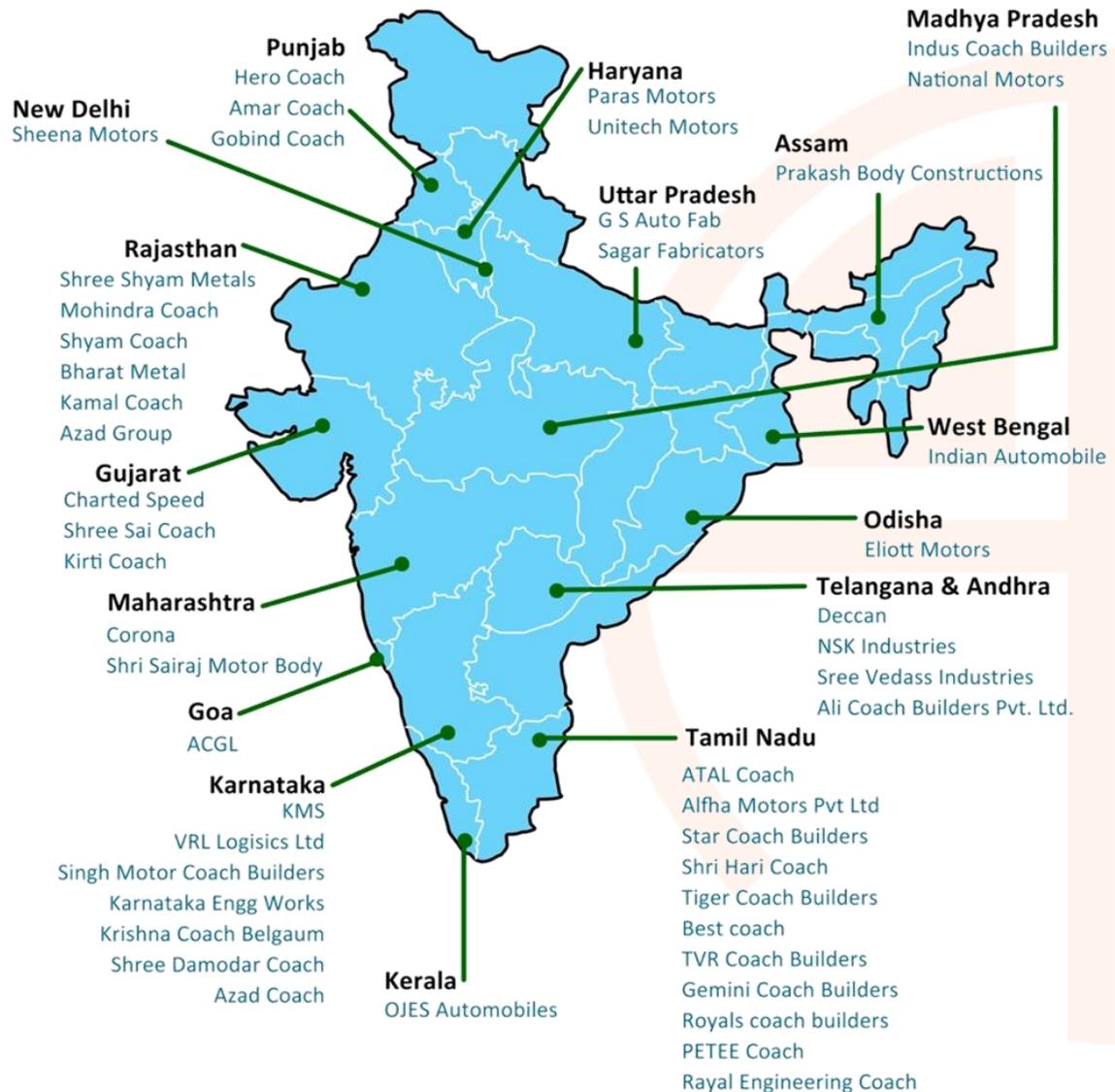


AC Duct for buses



Wire Harnessing

Bus Body Homologation Clients



Homologation Process

- Dimension capturing of existing bus body structure
- CG Calculation
- 3D model according to AIS 052 standard
- Coordinating with ARAI for Roll Over Analysis of the bus
- Manufacturing support
- Coordinating with ARAI for Bus Inspection
- Preparation of Drawings and documents for respective departments
- Receiving the Certificate from ARAI

Bus Body Design

ASHOK LEYLAND

TATA Marcopolo

Automobile Corporation of Goa Ltd.

Seccan Auto

CORONA BUS
TRUE BUS TECHNOLOGY

Homologation

CHARTERED speed

VRL LOGISTICS LTD

KMS

MB

REC
An ISO 9001-2008 Certified Company

ROYAL COACH

MOHINDRA COACHES

PEETEE COACH

G.S.

EM

Aerospace

GE

MINISTRY OF DEFENCE
DEFENCE RESEARCH & DEVELOPMENT ORGANISATION

ATKINS

The Hyde Group

Others

SIEMENS

बी एच ई एल
BHEL

Godrej

bp

McLaren



**Thank
You...**