

# NextGen

## City Transport Solutions



**JBM Auto Limited**

## About JBM Auto Limited

JBM buses are built with leading cutting edge technology providing the highest levels of comfort and safety with first in class features. The Group via these buses is committed to combining fuel efficiency with utility and performance using green & effective technology, thereby reducing the carbon footprint.

CITYLIFE, our frontline product is a spectacle of various features and aggregates that have been introduced first time in the Citybus segment in India. CITYLIFE, CNG and Diesel versions, have been, meticulously designed to suit the requirements of the typical Indian commuter. By way of its in-house R&D centres, JBM Auto offers entire range of activities right from design, development, engineering, prototyping, testing and validation. JBM Auto brings to the table stringent quality standards, domain know-how, having proven track record in manufacturing of key auto systems & assemblies of over three decades in India.

Incorporated in the year 1996, JBM Auto Ltd. is the flagship company of JBM Group. The company has diversified into bus manufacturing with an aim to become a globally benchmarked producer of modern intra-city buses.



## The JBM Group

**Established in the year 1983, JBM Group today stands for excellence in the global auto component industry. As a \$1.35 billion Group with 35 manufacturing plants and 4 Engineering & Design centres, the group operates from 18 locations globally with highly skilled and dedicated workforce of 20,000 people.**

JBM Group is a progressive conglomerate with global reach and over 3 decades of excellence. We have presence in diverse sectors such as Automotive, Buses & Electric vehicles, EV charging infrastructure, Renewable Energy, Engineering & Design services and Railways sectors. With modest beginnings in the early 80s, JBM has leapfrogged multi-fold with an infrastructure of 60 manufacturing plants, 5 engineering & design centres in over 10 countries globally today. Last year the Group acquired a global auto-component giant Linde-Wiemann, headquartered in Dillenburg,



Germany, specializes in proprietary technologies in areas such as hot forming, tubular assemblies and usage of alternate materials such as aluminium resulting in lightweighting in auto systems.

The Group has been consistently diversifying into newer areas that not only promote sustainable development but are also aptly aligned to the vision of Make in India. Powering the future race of

vehicles equipped with innovative technology, JBM Group has vertically integrated its business from auto systems to launching its bus division as an OEM and today moving ahead as an EV Ecosystem fore-runner. Further, the Group has also established its footprint in the renewable energy business and is actively delivering solutions in solar and waste to energy domains.



# NextGen

## Smart mobility for City Transport

JBM Auto is also considered the fastest growing city bus manufacturing company. The buses are designed considering commuters Comfort & Safety as the top most priority. These buses make boarding and alighting comfortable. CITYLIFE buses have low floor, enabling comfortable movement of commuters and more space to stand.

A highly durable rigid beam suspension system in front coupled with a double Pneumatic Spring at the rear significantly enhances the comfort by providing an ultimate jerk-free travel experience on city roads. The cantilever seating provides dirt-free and also reduces the chances hurting the commuter's foot.

CITYLIFE bus has one of the most modern brake systems designed with advanced technology. CITYLIFE is also equipped with Projection Lamps and LED Lights to give best vision thereby enhancing safe travel. These buses are successfully plying in three propulsion systems Diesel, CNG & Electric in both AC/Non AC bus variants. Range of buses is one of its kind ultra-modern transport solutions for city commute across various applications like City Bus, School Bus, Staff Bus & Tarmac.

CITYLIFE buses are successfully plying in the states of Delhi, UP, Haryana, Tamil Nadu, Maharashtra and Gujarat.

### Global Best Technology

- CITYLIFE buses are built using world class aggregates from United States and Europe's largest aggregate manufactures
- Steering System, Front Axle and Inverted Ported Axle from Germany
- Technically advanced Engine from India
- Globally proven Air Conditioner
- Robust Automatic Transmission

### European Features

- True Ultra Low Floor Bus with no step floor in the passenger saloon
- Complete vehicle design based on 3D simulation of all aspects of design and configuration including Drive Ergonomics, Passenger Movement and Seating
- Fully modeled on 3D CAD System with 100% Engineering Analysis on CAE, with state-of-the-art validation and testing
- AC airflow and Engine Room Analysis carried out with elaborate CFD
- Configured at extremely high panoramic visibility from external and internal perspective, resulting in best class view both from outside and inside
- All seats and passenger area have ample Head-Room



**JBM Auto, a flagship company of the vast and diversified conglomerate, JBM Group has presented yet another forerunner of its futuristic product, CITYLIFE buses.**





# Salient Features



## INTEGRA-DURALIFE

### Monocoque Structure

**Feature:** Monocoque frame with tubular structure

**Benefit:** Safety and Durability

CITYLIFE deploys a unique Monocoque frame, designed for extreme rigidity and torsion stiffness. The structure blends latest light-weighting concepts to provide ultimate strength and lightest weight. Designed for high safety norms as per European Standards for frontal collision, roll over and side impact. Coated internally and externally for a long corrosion free life.



## SAFE-STOP

### EBS & ABS for All Disc-brakes

**Feature:** Safe and reliable braking

**Benefit:** Safety

All around vented disc braking system designed with German technology provides surest safety stopping in shortest distances. Equipped with EBS & ABS the SAFE-STOP brakes provide life saving stopping in all weather and driving conditions. Retarder System which is in-built in the transmission provides additional braking on down slope of flyovers and gradients.



## EZ-CLEAN

### Clean Floor

**Feature:** Ease of cleaning

**Benefit:** Safety, comfort and hygiene

Seats and stanchions are not mounted on the floor. Therefore, there are no parts to hurt commuters' toes. There are no corners to collect dirt. EZ-Clean floor is cleanable and washable using basic methods practiced at Indian Bus Depots.



## PRO-GREEN

### Green Safe

**Feature:** Fueling Green Energy

**Benefit:** Safety

The CNG System is designed for easy inspection of Joints & Valves from the side of the bus and is equipped with auto shut off valves for added safety. Only 4 Cylinders are required, reducing the number of joints and improving reliability. The CNG cylinders are carried on a rack for easy inspection and inter-changeability. The Engine Room is equipped with Fire Detection and Fire Suppression system (optional).



## PRO-DRIVE

### Proven Driveline

**Feature:** Well synchronized proven driveline

**Benefit:** Performance

CITYLIFE has electronically controlled state-of-the-art engine and well matched Automatic Transmission with Retarder. It also has Inverted Portal Axle with higher rear axle ratio resulting in higher wheel torque.



## EZ- CARE

### Easy Maintenance

**Feature:** Designed to minimize physical efforts and discomfort and maximize efficiency

**Benefit:** Technician Comfort

Ease of real time maintenance is incorporated in designing stage resulting in intelligent packaging allowing easy access to all maintenance components, smart swing battery tray and side access to CNG cylinders. It has secure and ergonomic access of electronic devices. All openable bottom panels for underbody access from side. On Board Diagnostics equips the driver/technician to know any malfunction that occurs within the bus.



## TRANS-VU

### Wide & Clear Glasses

**Feature:** Trans View

**Benefit:** Safety and spacious feel

The vehicle is configured at extremely high panoramic visibility from outside and inside. Clear and broader lateral glasses facilitate clear view internally and externally, till the end of the bus. It also has asymmetric front windshield for better maneuverability.

# Technical Specifications

Model: CITYLIFE    Application: CITYBUS    Structure: MONOCOQUE



Cummins ISB 5.9 G 230

## Engine & Other Major Aggregates

Vehicle Description	DIMTS BS-VI
	ECOLIFE 2431C
Engine Model	Westport Weichai WP7NG240
Emis	BS-6
Horse Power	177kW @ 2100 RPM
Torque	1050Nm( @ 1100-1500) RPM
Cylinder	6 cylinders, vertical in-line, turbo charged and inter cooled
Displacement	7470 cc
Fuel	CNG
CNG Cylinders/fuel tank Capacity	900 ltrs
Transmission	Automatic Transmission with inbuilt retarder
Brakes	All wheels disk brakes, dual circuit, full air system with ABS
Suspension Type	TECH-RIDE Air Suspension

## Suspension & Tyres

**Suspension Type:** Fully Air Suspension- Front & rear

**Suspension Axle (Front):** Reverse Elliot , I-Beam solid Axle with 2 Air Bellows, 2 Telescopic Shock Absorbers & Stabilizer Bar.

**Suspension Axle (Rear):** Fully Floating- benjo Type,4 Air Bellows, 4 Telescopic Shock Absorbers & Stabilizer Bar.

**Kneeling Facility:** Yes-Front & Rear on LH side

**Tyres:** 295/80R 22.5-16PR

## Dimensions (mm)

**Total Length:** 12000

**Width:** 2593

**Max Height (with AC):** 3,380 (CNG), 3,042 (Dsl)

**Wheelbase:** 6,320

**Overhang (Front):** 2560 **(Rear):** 3120

**Entry Step Height:** Front Door-390mm, Middle door-370mm

**Axle Loads FAW:** 7000 kg

**RAW:** 11000 kg

**GVW:** 18000 kg

## Electrical System

**Type:** Multiplex, 24V

**Battery:** 2x12V, 180Ah

**Alternators:** 2X120 amps,1X150 amps

## Doors/Emergency Exits

**Passenger Doors:** 2, 1 each at the front and the middle-LH

**Door Type:** Inswing type with door curtains

**Disable Friendly:** Wheelchair Ramp (Manual)

## Other System

**CNG Gas Leak Detection System** is intgreted with multiplexing

**Fire Detection & Suppression System:** Yes

**ITS & PIS:** CITYLIFE 'Intelligent Transport System' & 'Passenger Information System' are compliant to UBS-2 guidelines issued by Ministry of Urban Development, Govt. of India.

**HVAC:** Yes with Demister



# Technical Specifications

**Model:** SKYLIFE    **Application:** TARMAC    **Structure:** MONOCOQUE

## Engine & Other Major Aggregates

Vehicle Description	Indogo Tarmac	Spicejet Tarmac	
	SKYLIFE 2321C	SKYLIFE 2321CC	
Engine Model	Cummins ISBe 285 40	Cummins ISBe 245 40	
Emis	BS4		
Horse Power	172kW @ 2800 RPM ±50 RPM		
Torque	678 Nm @ 1600 RPM ±100 RPM		
Cylinder	6 cylinders, vertical in-line, turbo charged and inter cooled		
Displacement	5883 cc		
Fuel	CNG		
CNG Cylinders/fuel tank Capacity	900 ltrs		
Transmission	Automatic Transmission with inbuilt retarder		
Brakes	Fail safe Pneumatic dual circuit full air brakes with Disc at front & drum at rear, full air system with ABS		
Suspension Type	TECH-RIDE Electronically controlled Air Suspension		

## Suspension & Tyres

**Suspension Type:** Fully Air Suspension- Front & rear

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Our milestones are touchstones

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