

TATA MOTORS
Connecting Aspirations



HAPPY KIDS HEALTHY ENVIRONMENT



Starbus SKOOL CNG

TATA MOTORS

SAMPOORNA SEVA

HAR PAL AAPKE SAATH

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TATA MOTORS

For more information, please visit our website: www.buses.tatamotors.com. You can also contact our Sales Office: **Tata Motors Limited**, 4th Floor, Ahura Centre, 82, Mahakali Caves Road, MIDC, Andheri (East), Mumbai 400093 or call toll-free no. **18002097979**. Email: businfo@tatamotors.com

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Starbus SKOOL CNG

When it comes to children's and environment's safety, Tata Motors goes an extra mile. Introducing **Tata Starbus Skool CNG** - a range of environment-friendly school buses that carries children with utmost comfort and safety, all the way to school and back. Tata Starbus Skool CNG is a cleaner means of transportation, thanks to higher fuel efficiency, lesser emission, and lesser running & maintenance costs. The bus incorporates an array of safety and comfort features that adhere to recommended Government guidelines, thereby ensuring high level of travel safety for school children.

Technology that stands out

The all-new Starbus Skool CNG range is the product of a fully automated manufacturing and assembly plant of Tata Motors Marcopolo Limited (TMML) located at Lucknow (UP). A state-of-the-art computer-aided design lab designs the structural components of the bus. TMML uses only high quality material for manufacturing these state-of-the-art buses. Built on the trusted BS4 platform, the bus bodies are made from high grade, high strength steel, to give them the robustness needed to undertake journeys day after day.

A-grade safety and comfort

Each Starbus Skool CNG is aesthetically designed and equipped with special 'child-safety' features that provide comfort, convenience and protection to the children travelling in it.



1 Fluorescent exterior



2 School Bus logo



3 Anti-skid flooring



4 STOP sign



5 First-aid kit



6 Safe upholstery



7 Lowered step



8 Childcare seats



9 Armrest



10 Tooth guard



11 Shoulder comfort



12 Hat-rack



13 Bottle-holder



14 Collapsible handles



15 Grab handle



16 Spacious windows





17 Guide rails integrated with hat-racks



18 Padded windows



19 Window guard rails



20 Guarded driver saloon



21 Door alarm



22 STOP switches



23 Individual seat lap-belts



24 Emergency exit



Features

- Mitsubishi Scroll compressor & Spheros AC unit for LP 913 CNG
- Pneumatic door with sensitivity as standard fitment
- Best-in-class cooling in summer; high on efficiency
- Hatracks integrated with AC duct
- Individual louvres provided on each seats for maximum cooling comfort
- Special insulation in engine hood and body which increases cooling comfort

Starbus SKOOL CNG AC

Skip Fire



Skip fire mode: After attaining 60°C, if the engine remains for more than 15 sec at idle RPM, it gets shifted to Skip Fire mode. It means that the firing takes place only in 2 cylinders at a time rather than all 4 cylinders. This saves on CNG fuel considerably. The monitoring is through ECU.

Swagelok fittings



- Best in class leak proof & high reliability cylinder valves & piping fitted with safety device
- CNG Cylinder valve with inbuilt pressure relief devices (burst disc & fusible plug) & excess flow device ensures proper venting of gas from cylinder in hazardous conditions

Cylinder layout



- 4 nos. CNG cylinders with high 480/636 l CNG capacity
- Rigid CNG cylinder mounting - to withstand rugged application

Coil-on-plug



- Low maintenance as the coils (HT) are mounted directly on the spark plug, reducing the electrical & efficient working for better performance
- High uptime with easy fault diagnosis system; user-friendly

Battery cut-off switch



- Battery cut-off switch – to enhance safety as it disconnects the electricals from the system when the bus is stationary or during night halt

Rigid cylinder mounting



- Strong cylinder mounting arrangement ensures vibration free location
- Better ground clearance ensures damage free service to the CNG kit & less prone to water splashing under body, ensuring reliability & uptime

Within easy reach

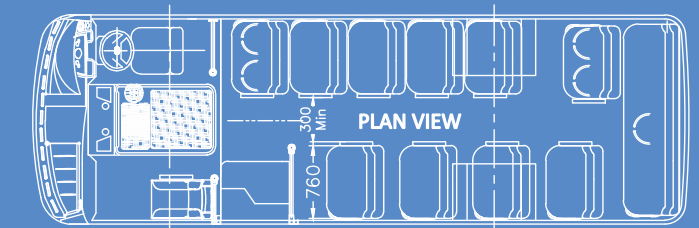
Starbus Skool CNG is also backed by the widest & best after-sales service & spares network in India. You can be sure of a Tata Motors service centre within your easy reach.



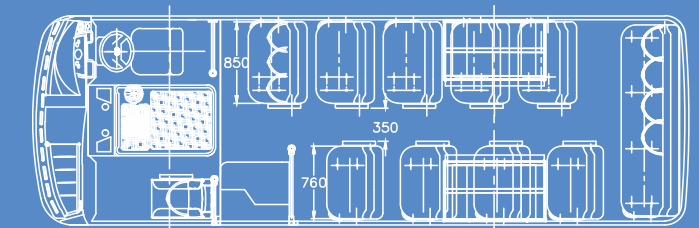
TECHNICAL SPECIFICATIONS

| | Non-AC & AC | | Non-AC | | AC |
|----------------------------|--|-----------|---|-----------|---|
| | 26-seater | 30-seater | 40-seater | 50-seater | 40-seater |
| Chassis Platform | LP 407/34 CNG BS4 | | LP 909/49 CNG BS4 | | LP 913/49 AC CNG BS4 |
| Engine | TATA 3.8 SGI CNG ENGINE | | TATA 3.8 SGI CNG ENGINE | | TATA 5.7 SGI CNG ENGINE |
| Engine Power | 64 kW @ 2500 r/min | | 64 kW @ 2500 r/min | | 97 kW @ 2500 r/min |
| Engine Torque | 270 Nm @ 1500-1800 r/min | | 270 Nm @ 1500-1800 r/min | | 405 Nm @ 1250-1500 r/min |
| Clutch Diameter | 280 mm | | 280 mm | | 330 mm |
| Gearbox | GBS-27, 5 forward + 1 reverse | | GBS-27, 5 forward + 1 reverse | | GBS 40, 5 forward + 1 reverse |
| Brakes | Air Brakes with ABS | | Air Brakes with ABS | | Air Brakes with ABS |
| Suspension | Semi-elliptical or parabolic leaf spring at front & semi-elliptical leaf spring at rear | | Semi-elliptical or parabolic leaf spring at front & semi-elliptical leaf spring at rear | | Semi-elliptical or parabolic leaf spring at front & semi-elliptical leaf spring at rear |
| Anti-roll Bar | Yes | | Yes | | Yes |
| Steering | Power Steering | | Power Steering | | Power Steering |
| Battery | 12 V, 120 Ah | | 12 V, 120 Ah | | 24 V, 150 Ah |
| Tyres | 7.5X16, 16 PR | | 8.25 x 16 -16 PR | | 8.25 x 16 - 16 PR |
| Fuel Tank Capacity | 310 l (90 L - 2 Nos & 65 L - 2 Nos) | | 480 l (150 L - 2 Nos. & 90 L - 2 Nos.) | | 636 l (198 L - 2 Nos. & 120 L - 2 Nos.) |
| Turning Circle Diameter | 12300 mm | | 17500 mm | | 17500 mm |
| Max. GVW | 6520 kg | | 9400 kg | | 9600 kg |
| BODY: | | | | | |
| Seating Capacity & Layout | 26+1, 2X2 | 30+1, 3X2 | 40+1, 2X2 | 50+1, 3X2 | 40+1, 2X2 |
| Structure | Galvanized tubular structure | | | | |
| Floor | Anti-skid vinyl | | | | |
| Passenger Door | 1 jack-knife type door in Non AC & Pneumatic door in AC | | | | |
| Front Windshield | Single piece laminated glass | | | | |
| Rear Windshield | Single piece tempered glass | | | | |
| Emergency Exits | 1 breakable rear glass with hammer; 1 emergency window behind driver; door at rear RH side | | | | |
| Fire Extinguisher | 2 nos. 2 kg fire extinguishers | | 2 nos. 6 kg fire extinguishers | | |
| First Aid box | One no. to be provided without medicines | | | | |
| Side Windows | Full sliding glasses | | | | |
| Step Lamp | Provided | | | | |
| Hat-rack | Tubular hatrack in Non-AC bus and Hatrack integrated with AC duct in AC bus | | | | |
| Window Guardrail | 3 rows | | | | |
| Fire Retardent Material | Yes | | | | |
| Side Luggage Booth | No | | | | |
| Overall Dimensions: | | | | | |
| Wheelbase | 3400 mm | | 4920 mm | | 4920 mm |
| FOH | 1430 mm | | 1430 mm | | 1430 mm |
| ROH | 2040 mm | | 2950 mm | | 2950 mm |
| Overall Length | 6870 mm | | 9300 mm | | 9300 mm |
| Overall Width | 2200 mm | | 2200 mm | | 2200 mm |
| Overall Height | 2900 mm | | 2900 mm | | 2900 mm |

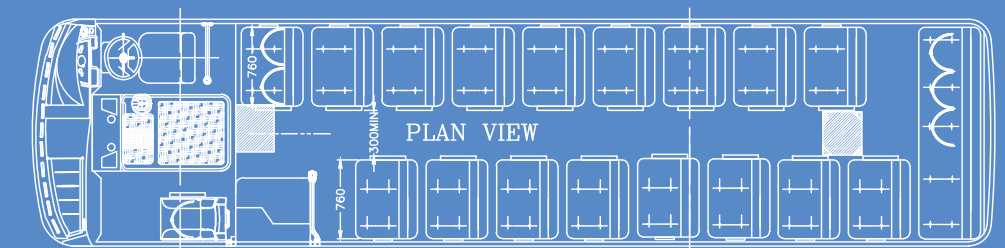
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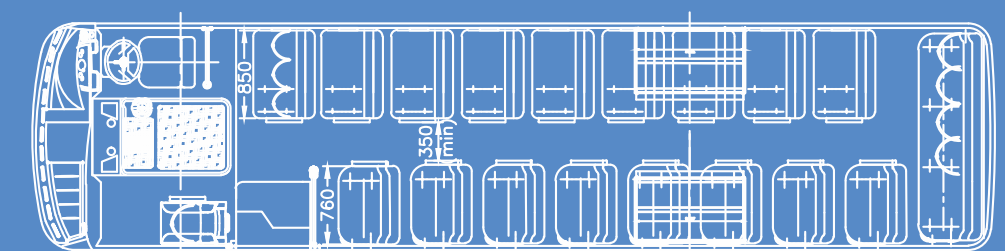
26 Seater



30 Seater



40 Seater



50 Seater