

DOE - DOST LPG PUV Prototype



B2. With Airconditioning (fully-closed windows)

- a) Ducted inlet air for uniform distribution and flow inside passenger cabin

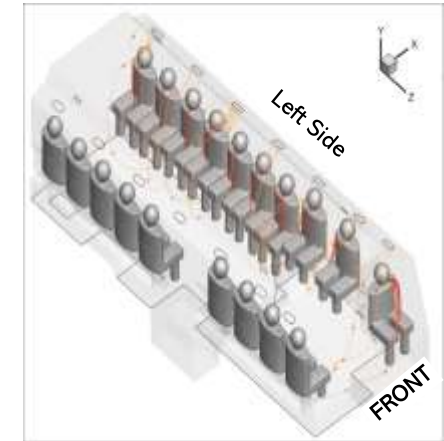


- b) Floor level exhaust air fans and ducting to minimize sharing of breath particles among adjacent passengers

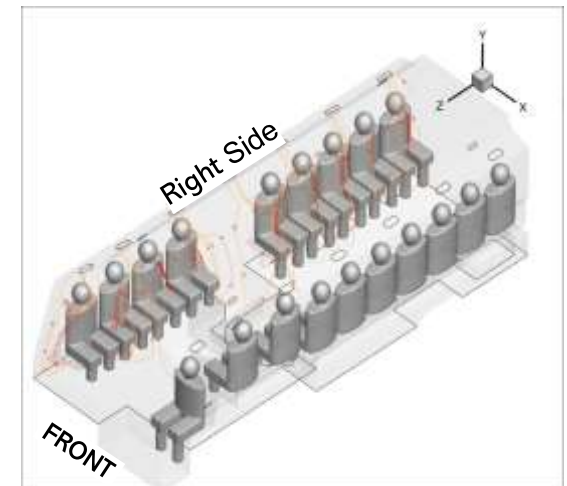


- c) Air circulation and ventilation system designed for correct number of air changes in passenger cabin

- d) Flow of breath particles simulated using Computational Fluid Dynamics analysis to minimize cross flow among passengers



Left-side airflow streamlines (light yellow) and particle trajectories (dark orange) with floor exhaust pipe+fan



Right-side airflow streamlines (light yellow) and particle trajectories (dark orange) with floor exhaust pipe+fan

Compliant with PNS 2126:2017 PUV Class 2

Capacity: 18 passengers (fully seated only)

Seating: Side-facing bench type seats

Engine: 2.4-L 2TZ type gasoline engine

LPG System: Tartarini sequential injection system

GVW: 4200 kg

SALIENT FEATURES:

A. Bi-Fuel Operation:

Can run on LPG only or Gasoline only with a changeover switch

B. Designed to mitigate Covid virus transmission:

B1. Without Air Conditioning

Vertically sliding window panes allow full window opening for maximum natural ventilation

C. PWD accessible and friendly

C1. Wheelchair lift at rear



C2. Designated PWD Seats

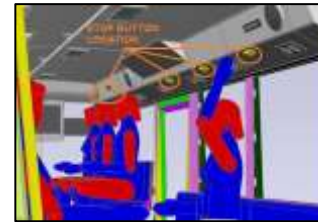


D. Passenger safety and convenience features

D1. Seat partitions to arrest passenger compression



D2. Distributed and easy access PUV Stop buttons and rear emergency exit door



D3. Digital route signage



D4. Cashless payment system



D5. CCTV camera system and dashcam



D6. Cabin public address system (mic + front/rear speakers)



Project Implementor: UP NCTS, UP Vehicle Research and Testing Laboratory