



Andhra Pradesh State Road Transport Corporation

No. OP2/843(6)/2008-MED

Office of the VC & MD,
Mushirabad, Hyderabad-624.
Dt.28.04.2008.

CIRCULAR NO. 04/2008-MED, Dated 28.04.2008.

SUB: **CNG BUSES:** Operation of CNG buses at Vidyadharapuram Depot- Issuing of instructions on preventive maintenance schedules for CNG vehicles.-Reg.

Ref: 1.Cir. No. P2/232(1)/85-MED, DT.03.10.1985
2.Cir. No. 32/87-MED, DT.30.10.1987
3.Cir. No. 23/94-MED, DT.23.07.1994
4.Cir. No. 24/2000-MED, DT.24.06.2000

As a part of the initiative taken by the Government of Andhra Pradesh to operate Euro-III vehicles for low emission standards and clean environment, Ashok Leyland vehicles with of CNG engines were started commencement at Vidyadharapuram Depot of Vijayawada City in the month of July '07. For these CNG vehicles, all the components of the vehicle except Engine are similar to the existing Ashok Leyland vehicles.

Through the circulars cited at reference, the maintenance schedules for Ashok Leyland and Tata vehicles were communicated as Schedule I, II, III and IV maintenances to carry out at different periods basing on the operated Kilometers.

On our request, M/S Ashok Leyland Limited has communicated the preventive maintenance activities of CNG engine. In order to maintain these vehicles without any troubles, the activities are streamlined in line with Schedule I/II/III and IV maintenances basing on periodicity given. The details of the works to be carried during Schedule I/II/III and IV maintenances for CNG engines besides the regular maintenance activities are given below for adoption.

SCHEDULE-I MAINTENANCE

1	Check for gas leak in cylinder valves, H.P. pipes & at regulator. Arrest if noticed.
2	Check all electrical system, CNG electrical circuit & dashboard gauges for proper functioning & rectify defects.

SCHEDULE-II MAINTENANCE

1	Ensure no fouling of H.P. pipes and gas cylinders with valve guard.
2	Check proper working of H.T. cable, spark plug, Distributor & Ignition coil.
3	Check for Gas Level Indicator to pressure gauge reading correctness.
4	Ensure proper connection of Trigger box, LCS, GLI, End Speed Governor, Stepper motor, Oxygen Sensor & 3 way solenoid sockets.
5	Check & tighten Air intake pipes, Gas supply hoses at regulator & Venturi
6	Check for fouling of gas supply hose at bonnet.

SCHEDULE-III MAINTENANCE

1	Check cylinder valves for proper functioning.
2	Clean radiator & engine by blowing air.
3	Check & adjust spark plug gap.
4	Check for gas leak at cylinder valve joints, H.P.Line connectors & at 3 stages Regulator.
5	Check LCS programming & Ignition timing

SCHEDULE-IV MAINTENANCE

1	Check for weveller suspension leaves for crack, replace if necessary
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The above instructions have to be exhibited through flexi charts and painted in the garage at prominent places for easy access to the maintenance staff regarding CNG vehicles.

The Depot Manager and Dy CME/VJA are advised to ensure the implementation of above maintenance schedules immediately in the Depot duly reallocating the works to be carried.

The Regional Manager/Krishna Region is advised to ensure the effective implementation of above works for better performance of CNG vehicles.

EXECUTIVE DIRECTOR (E&IT)

Copy to: ED (V&V) for information

Copy to: RM/VJA for necessary action

Copy to: Dy CME/WM/COS/VJA for necessary action

Copy to: Principal, ZSTC/GVRM for information

Copy to: DM/Maintenance Incharge/VDPM for necessary action

Copy to: Manual Section/Head Office for filing