

**GOVERNMENT OF TAMIL NADU**

**TRANSPORT DEPARTMENT**

**O/o the Transport Commissioner, Chepauk, Chennai-5**

R.No.24477/C2/2016

Dated: 01/09/2016

CIRCULAR No. 28/2016

Sub : Motor Vehicles - Use of LPG as fuel in Motor Vehicles - Alternate use of LPG as fuel in Motor Vehicles - alteration to fit **GFI LPG Kits in Four wheelers**- Approval - Regarding.

Ref: Letter No Nil. from KR Fuels, Tiruchirappalli-1 Dt.24.06.2016.

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Consequent to the Amendment of Sec.52 of the Motor Vehicles Act, 1988, the Government of India have amended the Rule 115 and 116 of the Central Motor Vehicles Rules 1989 prescribing to the emission norms and safety checks for the use of LPG as fuel in motor vehicles.

To make necessary endorsements in Certificate of Registration of vehicles duly permitting LPG as auto fuel, it should be ensured that the Retro-Fitments Kits are from the authorized manufacturers having the requisite type approval certificate from one of the testing agencies appointed by the Government of India under Rule 126 of the Central Motor Vehicles Rules 1989. For this purpose, the vehicle should be fitted with Auto LPG Cylinder permanently in the vehicle as approved by the Chief Controller of Explosives (CCOE) under the Gas Cylinder Rules, 1981.

The International Centre for Automotive Technology Gurgaon, Haryana has approved GFI LPG kits KR Fuels, No.20, Lowsons Road, Cantonment, Tiruchirappalli-620 001.

Subject to certain conditions. vide Certificate No.

- i) C A J L 0103 L 03 from the International Centre for Automotive Technology, Gurgaon, Haryana Dt: 10.06.2016.
- ii) C A J L 0103 from the International Centre for Automotive Technology, Gurgaon, Haryana Dt. 24.09.2014.

iii) C A J L 0098 from the International, centre for Automotive Technology, Gurgaon,  
Haryana Dt.09.09.2014.

iv) C A J L 0098 L 03 from the International, centre for Automotive Technology, Gurgaon  
Haryana Dt.10.06.2016.

2. Electrical Circuit Diagram.

3. Brief description of system.

4. Technical Specification.

**Toyota Corolla Altis !.8J June 2013 Meets BS IV norms** and "In use" Base models falling within stipulated engine cm<sup>3</sup> Range i.e 1348.5 to 2247.5 cm<sup>3</sup> Chevrolet Enjoy (8 Seater) 1399 cc, Hyundai Creta 1591 cc meets **Bharat Stage-IV norms**

And

**Maruti A Star Lxi July 2013 make meets Bharat Stage IV norms** and "In use" LPG Base models falling within stipulated engine cm<sup>3</sup> Range i.e 748.5 to 1247.5 cm<sup>3</sup> Mahindra KUV 100 1198cc, Datsun Go+ 1198cc, Honda Jazz 1199cc, Hyundai I20 Elite 1197cc, Maruti Baleno 1197cc, Nissan Micra Active 1198cc, Renault KWID 799cc, meets **Bharat Stage-IV norms**

5. i) This certificate no. C A J L 0103 from the International Centre for Automotive Technology, Gurgaon, Haryana Dated: 24/09/2014 is valid for the period of 3 years from the date of its issue or until further amendment in Central Motor Vehicle Rules or till the validity of Bharat-IV emission norms. and C A J L 0103 L 03 from the International Centre for Automotive Technology, Gurgaon, Haryana Dt: 10/06/2016 is valid till the validity of Bharat Stage IV norms.

And

concerned Registering Authorities, under this certificate lies with M/s KR Fuels, Trichy as per Annexure - V of AIS 025. They will also be required to instruct the customers about their responsibilities as mentioned in para 15 of Annexure-V of AIS 025 and also about rechecking of the Auto LPG Cylinder, as prescribed by the Chief Controller of Explosives (CCOE) Nagpur.

5. Workshops authorized by the KR Fuels, No.20, lawsons Road, Cantonment, Tiruchirappalli - 620 001 shall fulfill the requirements and the responsibilities in regard to fitment of LPG kits as per guidelines given under "Criteria To Authorize the kit installer in Annexure-V AIS 025".

6. It is the duty of kit installer to ensure at the time of installation of the kit that each "Auto LPG Cylinder, supplied by them to customer, is the one for which valid clearance of the Chief Controller of Explosives (CCOE) is available.

7. Auto LPG Cylinder and Cylinder valve approved by the Chief Controller of Explosives (CCOE), Nagpur shall have following requirements regarding mounting conditions of Auto LPG Cylinder.

a) Auto LPG Tank shall be permanently attached to the vehicle and shall have fittings as per IS:14899 (as amended from time to time)

b) Auto LPG Tank shall be correctly oriented for its mounting as per Manufacture's specifications viz. the longitudinal axis of the Auto LPG cylinder is perpendicular to the vehicle longitudinal axis. The axis of the multifunction valve mounted on the empty cylinder when viewed from the side, makes an angle of  $30^{\circ}$  and  $90^{\circ}$  with the horizontal plane and the level indicator arrow is positioned to zero, to ensure that a tank is not filled beyond 80% of its water capacity.

ii) The Certificate no. C A J L 0098 from the International, centre for Automotive Technology, Gurgaon, Haryana Dt. 09/09/2014 is valid for the period of 3 years from the date of its issue or until further amendment in Central Motor Vehicle Rules or till the validity of Bharat-II emission norms and C A J L 0098 L 03 from the International, centre for Automotive Technology, Gurgaon, Haryana Dt. 10/06/2016 is valid till the validity of **Bharat-IV emission norms.**

All the registering authorities in the State are hereby informed to ensure that, the following conditions are fulfilled before permitting any alternation on registration.

1. The Registering Authorities shall at the time of registration, verify approval of the Chief Controller of Explosives(CCOE), for the Auto LPG Tank and Multifunction Value in respect of the following in each individual case:
  - a) Specific make and identification as referred in Annexure - II of the certificate.
  - b) Documental reference for Quantity /Serial No. cleared by the DOE, time to time, in respect of Auto LPG Tank.
  - c) Regarding multifunction valve the Chief controller of Explosives (CCOE) approval to be specifically verified before installation/registration by Regional Transport Officer.
2. All the components of the LPG kit shall be as per the technical specification Annexure-I of ICAT certificate. The LPG gas injector is of the type & design.
3. Any change in the kit specifications or layout as approved under this certification shall be informed to International Centre for Automotive Technology, Gurgaon, Haryana for approval with or without re-test.
4. For in-use retro-fitment, the responsibility of fitness and proper functioning of the LPG system on the vehicle including endorsement as "Operation on LPG" by the

8. The Auto LPG containers for Auto LPG when permanently fitted to the vehicle subject to following conditions:

- a) The containers are fitted with multi function valve assemble approved by Chief controller of Explosives.
- b) The containers are subject to periodic examination/testing once in a period of 5 years as provided under Gas cylinders Rules 2004.
- c) The containers are subject to hydrostatic test at a pressure of 30 bars as required under rule 35 of the Gas cylinders Rules 2004.
- d) The containers shall be condemned after the expiry of the service life of 15 years of the containers, as provided under Rule 36 of Gas cylinders Rules, 2004.
- e) Relevant provisions of Gas cylinders Rules, 2004 SMPU(U) Rules 1981 and Central Motor Vehicle(3<sup>rd</sup> Amendment) Rules, 2001 and (5<sup>th</sup> Amendment) Rules, 2002 are strictly complied with.

9. This certificate No. C A J L 0103 from the International Centre for Automotive Technology Gurgaon, Haryana Dt. 24/09/2014 is valid for 3 years from the date of its issue or until further amendment in Central Motor Vehicles Rules or **till the validity or Bharat-IV emission norms whichever is earlier** and C A J L 0103 L 03 from the International Centre for Automotive Technology, Gurgaon, Haryana Dt: 10/06/2016 is valid till the validity of **Bharat-IV emission norms** whichever is earlier

**And**

ii) The Certificate no. C A J L 0098 from the International, centre for Automotive Technology, Gurgaon, Hariyana Dt. 09/09/2014 is valid for the period of 3 years from the date of its issue or until further amendment in Central Motor Vehicle Rules or till the validity of Bharat-IV emission norms whichever is earlier and The Certificate no. C A J L 098 L 03 from the International, centre for Automotive Technology, Gurgaon, Hariyana Dt. 10/06/2016 is valid till the validity of Bharat-IV emission norms whichever is earlier.

- 1 All the Deputy Transport Commissioner/Joint Transport Commissioner, Chennai(North) & (South) with a request to communicate this to the respective RTOs/MVIs and sent acknowledgement to this office.
- 2 **M/s. KR Fuels,**  
No.20, Lawsons Road,  
Cantoment,  
Tiruchirappalli-620001.

Sd/- P.Muruganandam,  
Joint Transport Commissioner  
(Road Safety)i/c

//By Order//

  
Personal Assistant to STA

06.9.16