

GOVERNMENT OF TAMIL NADU

TRANSPORT DEPARTMENT

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

R.No.33559/C2/2016

Dated: 03/10/2016

CIRCULAR No. 31 /2016

Sub : Motor Vehicles – Use of LPG as fuel in Motor Vehicles – Alternate use of LPG as fuel in Motor Vehicles – alteration to fit **UAG 777-E Kit In Four wheelers-** Approval – Regarding.

Ref: Letter from M/s M.G.Auto Gas, New No.100, Old No.27, Krishnadass Road, Mangalapuram, Chennai-12 Dated 02.09.2016.

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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 UAG 777-E LPG kits manufactured by M/s UNITAX Automotive, M-11 1st Floor, Gali No.10, Anand Parbat Industrial Area, New Delhi – 110005. Subject to certain conditions vide Certificate No.

- i) CALL 0087 from the International Centre for Automotive Technology, Gurgaon, Haryana Dt.16..05.2016.
- ii) CALL 0087 L01 from the International Centre for Automotive Technology, Gurgaon, Haryana Dt.09.08.2016.

2. Electrical Circuit Diagram.

3. Brief description of system.

4. Technical Specification.

Maruti Wagon R VX1 BS4 998 cc Make April 2010 Meets BS IV norms and

And other in use LPG Base models falling within stipulated Engine cm³ Range i.e 748.5 to 1247.5cm³ Chevrolet Beat 1199cc, Chevrolet spark 995cc, Chevrolet Aveo U-VA 1150cc, Fiat Palio 1108cc, Fiat Punto 1.2 1172cc, Ford Figo 1196cc, Honda Jazz 1198cc, Hyundai i-10 Era 1086cc, Hyundai i-10 Magna 1197cc, Hyundai i-20 1197cc, Hyundai Santro Xing 1086cc, Maruti Alto 796cc, Maruti A Star 998cc, Maruti EECO (5 seater) 1196cc, Maruti EECO (7 seater) 1196cc, Maruti EECO Cargo 1196cc, Maruti Omni (5 seater) 796cc, Maruti Omni (8 seater) 796cc, Maruti Omni Cargo 796cc, Maruti Ritz 1197cc, Maruti Swift, 1197cc, Maruti Swift Dzire 1197cc, Maruti Zen Estilo 998cc, Skoda Fabia 1198cc, Tata Indica vista 1172cc, Tata Indica Xeta 1193cc, Volkswagen Polo 1198cc, Nissan Micra 1198cc meets Bharat stage – IV norms.

- 5) i. The certificate no. i) CALL 0087 from the International Centre for Automotive Technology, Gurgaon, Haryana, Dt. 16/05/2016 is valid for the 3 years from the date of its issue or until further amendment in Central Motor Vehicle Rules or till the validity of Bharat Stage –IV norms whichever is earlier.
- ii) CALL 0087 L01 from the International Centre for Automotive Technology, Gurgaon, Haryana, Dt. 09.08.2016 in continuation to the above CMVR compliance certificate.

6. All the registering authorities in the state are hereby informed to ensure that, the following conditions are fulfilled before permitting any alteration in registration

- i) The Registering Authorities shall at the time of registration, verify approval of the Chief Controller of Explosives (CCOE), for the Auto LPG Cylinder and Multifunction Value in respect of the following in each individual case:

- ii) Specify make and identification as referred in Annexure – II of the certificate.
- iii) Documental reference for Quantity /Serial No. cleared by the Chief Controller of Explosives (CCOE), time to time, in respect of Auto LPG Tank.
- iv) Regarding multifunction valve, the Chief controller of Explosives (CCOE) approval to be specifically verified before installation/registration by Regional Transport Officer.
- v) All the components of the LPG kit shall be as per the technical specification Annexure-I and Annexure – II Dt. 16.05.2016 of ICAT certificate. The LPG air mixer is of the type & design.
- vi) 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.
- vii) 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 concerned Registering Authorities under this certificate lies with M/s MG. Auto Gas, Chennai -12 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.

7. Workshops authorized by the Unitax Automotive, M-11 Street, Anand Parbat Industrial Area, New Delhi – 110 005 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

8. 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.

9. 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 mounted as per manufactures specifications viz. the longitudinal axis of the Auto LPG Tank is perpendicular to the vehicle longitudinal axis. The axis of the multifunction valve mounted on the empty tank when viewed from the side, makes an angle of multiple degree 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.

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

- i) The containers are fitted with multi function valve assembly approved by Chief controller of Explosives.
- ii) The containers are subject to periodic examination/testing once in a period of 5 years as provided under Gas cylinders Rules 2004.
- iii) The containers are subject to hydrostatic test at a pressure of 30 bars as required under rule 35 of the Gas cylinders Rules 2004.
- iv) 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.
- v) Relevant provisions of Gas cylinders Rules, 2004 SMPU(U) Rules 1981 and Central Motor Vehicle(3rd Amendment) Rules, 2001 and (5th Amendment) Rules, 2002 are strictly complied with.

11. The certificate no. I) CALL 0087 from the International Centre for Automotive Technology, Gurgaon, Haryana Dt.16.05.2016 is valid for the 3 years from the date of its issue or until further amendment in Central Motor Vehicle Rules or till the validity of Bharat Stage-IV norms whichever is earlier.

ii) CALL 0087 LO1 from the International Centre for Automotive Technology, Gurgaon, Haryana Dt.09.08.2016 is issued in continuation to the above certificate of compliance until further amendment in Central Motor Vehicle Rules or till the validity of Bharat Stage-IV norms whichever is earlier.

**Sd/-P.Muruganatham,
Joint Transport Commissioner
(Road Safety)/c**

To

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.

M/s UNITAX Automotive,
M-11 1st Floor, Gali No.10,
Anand Parbat Industrial Area,
New Delhi - 110005.

M/s M.G.Auto Gas,
New No.100, Old No.27,
Krishnadass Road,
Mangalapuram,
Chennai-12.

//By Order//

Personal Assistant to STA