

GOVERNMENT OF TAMIL NADU
TRANSPORT DEPARTMENT

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

R.No.02051/C2/2016

Dated: 17/03/2016.

CIRCULAR No.06/2016

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

Ref: Letter No. Eco Fule/Lpg/Tn/Transport Commissioner/190116
received from Eco fuel System India Private Limite, Mumbai -400 075
Dated 19/01/2016

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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 ARAI and the International Centre for Automotive Technology Gurgaon, Haryana has approved Lovato RG 92 LPG Kits by Officiate Lovato Private Limited, 101, 1st Floor, Kamla Executive Park, MIDC Cross road "B" Andheri(East) Mumbai-400 089.

Certificate No.

- i) 1) ARAI/CMVR-LPG(In-Use)-3484B(E2-589)2011-238, Dt:12th October 2011, issued by ARAI P.b.No. – 832, Pune-411004

In-Use base model "Maruti Baleno Lxi", 1590cc July 2000 make-Bharat Stage-II norms

- II) ARAI/CMVR-LPG(In-use)-3484B(E2-589)/2011-238., C01, Dt:21st October 2011 issued by ARAI P.B.No.832, Pune-411 004.
- III) Certificate for Layout Plan Approval: Certificate No:ICAT/Central Motor Vehicles Rules-LPG(Layout-01)/388/G-0633, Dt:18th November 2011.

Honda – City, 1497cc, Hyundai-Elantra, 1795cc, Opel – Corsa 1598cc, Hyundai-Accent 1495cc, Fiat – Palia Adventure, 1596cc, Chevrolet – Optra, 1799cc
Toyota – Corolla, 1794cc, HM Ambassadors, 1817cc, Skoda-Octavia, 1781cc,
Mitsubishi-Lancer, 1468cc, Maruti-Esteem, 1298cc, Tata-Indica, 1405cc, Ford Ikon, 1299cc, Hyundai-Getz, 1341cc, Fiat-Petra, 1696cc Hyundai-Accent Viva, 1599cc, Fiat Palio, 1242cc, Honda City, 1343cc, Chevrolet Optra, 1389cc, Opel Corsa, 1389cc, Ford Ikon, 1597cc April 2000 to March 2005 make meets

Bharat Stage-II norms.

All the registering authorities in the state are informed to verify

2. Electrical Circuit Diagram.
3. Brief description of system.
4. Technical Specification.

5. Certificate Nos.

S. No	Reference of Type Approval & Revalidation certificate	Validity of certificate				
		ARAI	Earlier		Revalidated	
			From	To	From	To
1	ARAI/CMVR-LPG(in-Use)/3484B(E2-589)/2011-238, Dt.12/10/2011 (Base Certificate) issued for LPG In-Use base model "Maruti Baleno Lxi" 1590 cc – July 2000 make – Bharat Stage - II	ARAI	12/10/2011	11/10/2014	-	-
Reference of layout/Extension certificate		ARAI Reference		ICAT Revalidated		
1	ARAI/CMVR-LPG(In Use)/3484B (E2-.589)/2011-238,C01	21/10/2011	} 11/10/2014	12/10/2014	11/10/2017	
2	ICAT/CMVR-LPG(Layout-01)/388/G-0633	18/11/2011				

Extension of Validity

- 1) CAT/CMVR/3484B-631(R1)/K-0270 AK270 from the International Centre for Automotive Technology, Gurgaon, Haryana, Dt.30/04/2015 is valid for 3 years from 12/10/2014 to 11/10/2017 or until further amendment in Central Motor Vehicle Rules or till the validity of Bharat Stage-IV norms whichever is earlier.

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 Tank and Multifunction Value in respect of the following in each individual case:
- ii) Specify make and identification as referred in Annexure – I&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 of ARAI 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 from 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 M/s Officine Lovato Private Limited,101,1st Floor, Kamla Executive Park, MIDC Cross Road,"B" Andheri(East),Mumbai-400 089 as per Annexure – V of AIS 025 D1. They will also be required to instruct the customers about their responsibilities as mentioned in para 15 of Annexure-V of AIS 025 D1 and also about rechecking of the Auto LPG Cylinder, as prescribed by the Chief Controller of Explosives (CCOE) Nagpur.

7. Workshops authorized by the Officine Lovato Private Limited,101,1st Floor, Kamla Executive Park, MIDC Cross Road,"B" Andheri(East),Mumbai-400 089 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 D1

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 oriented mounting 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 assemble 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.

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

To

1. All the Deputy Transport Commissioner/Joint Transport Commissioner, Coimbatore, Madurai, Chennai(North) & (South) with a request to communicate this to the respective RTOs/MVIs and sent acknowledgement to this office.
2. M/s Officine Lovato Private Limited, 101, 1st Floor, Kamla Executive Park, MIDC Cross Road "B" Andher (East) Mumbai-400 089.
3. Eco Fuel System India Private Limite B-101, Bellona Building no.1 90ft Road Ghatkopar(East), Mumbai - 400 075 Maharashtra.
4. M/s S.K.Gas Point, 4/405, 3rd Cross Street, Rayala Nagar, Ramapuram, Chennai – 600 089.

//By Order//

Personal Assistant to STA