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**GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI**  
**TRANSPORT DEPARTMENT : OPERATION BRANCH**  
**5/9, UNDER HILL ROAD, DELHI-110054.**

No. F. 20(95)/TPT/OPS/2016/4792-95

Date 29-11-2016

CIRCULAR

The Competent Authority is pleased to grant the approval of CNG Kit identification "LOVATO AUTO GAS Sequential" manufactured by M/s Lovato Gas S.p.A B-101, Bellona Building No. 1, 90 ft road Ghatkopar (East), Mumbai-400075 for retro fitment on "in-use" gasoline vehicles fitted with Ö.E. Catalytic Converter, between stipulated engine capacity 1189.5 to 1982.5 cm<sup>3</sup>. The CNG Kit is duly approved by the designated agencies i.e. ICAT Manesar Gurgaon for compliance to the Central Motor Vehicles Rules. The details of CNG Kit are given hereunder:-

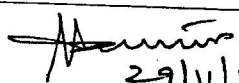
Vehicle Model retrofitted/Month & Year of Manufacture/Regn	Approved by the Testing Agency vide Certificate No.		
The designated testing agency ICAT, vide certificate no. CALA 0172 dated 20.10.2016, has approved the retro-fitment of CNG Kit of M/s Lovato Gas S.p.A. Itlay on "in-use" base model Maruti SX4 (1586 cm <sup>3</sup> ) manufactured in October 2010	Certificate No. CALA0172 dated 20 <sup>th</sup> October 2016 Case No. : 2016-433 (IOCS Ref: 46418)  Emission Test Report CTOPL 0594 dated 19.09.2016 (Rama Cylinder – Suzuki Cat Con-Bosch-Spark Plug)		
Sr.No.	Model	Engine cm <sup>3</sup>	CNG Kit Identification
1.	Maruti SX 4	1586	"LOVATO AUTO GAS Sequential"

Validity – This certificate is valid upto 19.10.2019 i.e. 3 years from the date of issue of base type approval certificate no. CALA 0172 dated 20<sup>th</sup> October 2016 or until further amendment in CMVR Rules, whichever is earlier.

The same kit can be fitted on the MPFI vehicles fitted with O.E. Catalytic Converter between stipulated Engine CC range (1189.5 to 1982.5 cm<sup>3</sup>) manufactured/registered from 01<sup>st</sup> April 2010 till 31<sup>st</sup> March 2013.

The testing agency has certified that the above CNG converted "In-use" gasoline vehicle model complies with the provisions of the CMVR, 1989 as amended upto date including following requirements :

Mass Emission Standards	Notification No. & Date	Effective From	To	CMV Rule	
CNG for In-use Gasoline vehicles	GSR 853 (E) dt. 19.11.2001	19.05.2002	Till further amended	115B A. (ii)	
Type Approval norms for Petrol Vehicles	Idling CO & NMHC	GSR 103(E) dt. 23.02.2012		23.02.2013	115 (2)(i)
	BS-IV (For notified areas)	GSR 84 (E) dt. 09.02.2009		01.04.2010	115 (14)(G), 115(a), (b)(i)
		GSR 443(E) dt.21.05.2010		01.06.2010	
		GSR 504(E) dt.21.05.2010		01.10.2014	
		GSR 555(E) dt.14.07.2015		14.07.2015	
Safety Checks for use of CNG Fuels in internal combustion engine vehicles (as per AIS 028) and Indian Gas Cylinder Rules, 2004	GSR 534(E) dt.24.07.2014	24.07.2015			115 B.E.
Compliance of Mass Emission Standards & Validity (Ref. 115B.A.(II) Clause (IV), as per GSR 84(E) dt. 09.02.2009.					

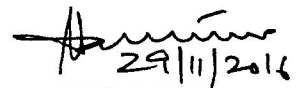
  
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The fitment of CNG system installed by M/s Lovato Gas S.p.A. Itlay, C/o M/s Officine Lovato Pvt. Ltd, B-101, Bellona Building No. 1, 90 ft road Ghatkopar (East), Mumbai-400075, Maharashtra India (with following CNG cylinder) on the "in-use" Gasoline vehicle base model "Maruti SX4 (October 2010 make)" fitted with O.E. Catalytic Converter.						
CNG Cylinders Option	1	2	3	4	5	6
Manufacturer	M/s Confidence Petroleum India Ltd.	M/s Lizer Cylinders Ltd.	M/s Associate High Pressure Technologies	M/s. Nitin Cylinders Pvt. Ltd.	M/s Maruti Koatsu Cylinder Ltd.	M/s Everest Kanto Cylinder Ltd.
Capacity Ltr.	60,65 &70 (Dia 356 & 325 mm)	60, 65 &70 (Dia 355.6 mm)	60,65 & 70 (Dia 316 & 356 mm)	60,65 &70 (Dia 316, 325 & 356 mm)	60,65&70 (Dia 356 mm)	60,65&70 (Dia 316,323.8 & 356 mm)
CNG Cylinders Option	7	8	9	10	11	
Manufacturer	M/s Euro India Cylinders Ltd.	M/s Jay Fe Cylinders Ltd.	M/s Rama Cylinders Pvt. Ltd.	M/s Sarju Impex Ltd.	M/s Sahuwala High Pressure Cylinder (P) Ltd.	
Capacity Ltr.	60 (Dia 267mm) & 60,65 (Dia 316mm),& 60,65,70 (356 mm)	60,65 &70 (Dia 317 & 356 mm)	60,65 &70 (Dia 317,323.8 & 356 mm)	60 (Dia 267 mm) & 60,65,70 (Dia 316&356 mm)	60,65,70 (Dia 325mm)	

Kit Manufacture/Supplier/Distributor is directed to ensure the strict compliance of CMVR Rules, 1989. The retro-fitment should be carried out by the authorized workshops only. Further, approval is accorded subject to ensuring fitment of same components, parts/assemblies etc. details of which are given in the detailed specification duly endorsed by the ICAT at the time of submission of vehicle for inspection/endorsement of CNG in registration certificate.

The Kit Manufacture/Installer must comply with Annexure-II to the TAC No CALA 0172 dt. 20.10.2016 and also invariably enclose its certified copy along with CNG installation certificate (Annexure VI) and checklist (Annexure-VII) of AIS:024 and specific layout plan of model approved by ICAT.

All MLOs/Registering Authorities shall, at the time of endorsement of CNG fuel in registration certificate, verify the CCoE approval for the CNG cylinder and cylinder Valve, in respect of make/identification number (as referred in Technical Specification of CNG system endorsed by ICAT) and documental reference for quantity/Sr.No. Cleared by DoE, time to time. Further, it should also be ensured that the fitment of kit must be in accordance with the layout plan for fitment, terms & condition and validity given in the type approval certificate subject to fulfillment of provisions of Motor Vehicle Act, 1988 and Rules made there under and department instruction/order issued from time to time in this regard.

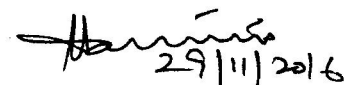
  
29/11/2016  
(VIKAS JAIN)  
PCO (OPS)

No. F. 20(95)/TPT/OPS/2016/4792-95

Date 29-11-2016

Copy forwarded for information and necessary action to :-

1. All MLOs/CMVI (Burari)/Programmer, Transport Department
2. M/s Lovato Gas S.p.A. Itlay, B-101, Bellona Building No. 1, 90 ft road Ghatkopar (East), Mumbai-400075
3. S.A. (Computer) for uploading on the website
4. Guard File

  
29/11/2016  
(VIKAS JAIN)  
PCO (OPS)