

Mr. Kajal J
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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/2011/ 1143-46

Dated 18, May 2016

CIRCULAR

The Competent Authority is pleased to allow the extension of validity of following layout plans for retro fitment kit "LOVATO AUTO GAS RME-90" of M/s. Lovato Gas S.p.A, No. 89, Bishop Garden, Greenways Road, Chennai - 600028 in the following "in-use" gasoline vehicles models issued by ICAT vide certificate No. ICAT/CMVR/166B-618(R2)/L-0004 dated 05/01/2016.

S. No.	Extension of Validity TA Certificate Reference of Type Approval & Revalidation Certificate	ICAT/CMVR/166B-618(R2)/L-0004 dated 05/01/2016						
		Validity of Certificate						
		Earlier		Revalidated				
		From	To	From	To	From	To	
1	ICAT/CMVR/166B-306(R1)/H-0633 DT.19.10.2012 (Revalidation Certificate)	ARAI	17.10.2006	16.10.2009	-	-	-	-
	ARAI/CMVR-CNG(In-Use)/166B(E3-589)/2006-598 (R1) dt. 01.01.2010 (Revalidation Certificate)				17.10.2009	16.10.2012		
	ARAI/CMVR-CNG(In-Use)/ 166B(E3-589)/2006-598 dt. 17.10.2006 (Base Certificate) issued for CNG "in-use" base model "Maruti Wagon R Right Hand Drive" 1061 cc - October 2005 make - Bharat Stage - III	ICAT			17.10.2012	16.10.2015	17.10.2015	16.10.2018
Reference of Layout/Extension Certificates		ARAI reference	ICAT Revalidated					
1	ARAI/CMVR-CNG(in-use)/Kit Components E1 - 932/2008-833	31.12.2008	16.10.2009	17.10.2012	16.10.2015	17.10.2015	16.10.2018	
2	ARAI/CMVR/CNG (in-use) /166 E1-2146/2010-190	12.11.2010						
3	ICAT/CMVR/166B-474(E1)/H-0005	03.01.2012						
4	ICAT/CMVR/166B-068(E2)/H-0269	09.05.2012						
5	ICAT/CMVR/166B-306(R1)/297-E3/J-0728	26.08.2014						
6	ARAI/CMVR/CNG (Layout-1) /166B-840/2007-006	02.01.2007						
7	ARAI/CMVR/CNG (Layout-2) /166B-209/2007-481	19.06.2007						
8	ARAI/CMVR/CNG (Layout-3) /166B-1613/2008-229	27.03.2008						
9	ARAI/CMVR/CNG (Layout-4) /166B-104/2008-291	21.05.2008						

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10	ARAI/CMVR/CNG (Layout-5) /166B-1480/2010-030	23.02. 2010					
11	ARAI/CMVR/CNG (Layout-6) /166B-1835/2010-062	31.03. 2010					
12	ICAT/CMVR/CNG(Layout-1)/301/F-0677	06.12. 2010					

Compliance of Mass Emission Standards & Validity: (Ref. 115B A. (II) Clause (d) (iii), Note-7 & explanations (d) as per GSR 589(E)

The CNG converted "In-Use" base model " **Maruti Wagon R Right Hand Drive**" **1061 cc – (October 2005 make)** fitted with O.E. Catalytic Converter" meets the **Bharat Stage-III** norms. Same kit can therefore be fitted on the MPFI vehicles fitted with O.E. Catalytic Converter between stipulated Engine cc range (**795.75 to 1326.25** cm³) manufactured / registered from **01st January 2005 till the validity of Bharat Stage III norms**, subject to specific approval, for layout plan by ICAT, for retro-fitment of CNG kit in each vehicle model.

2. All conditions and compliance requirements, in respect retro-fitment of CNG kit, given in the certificates referred above, remain unchanged.

ICAT Case ref:	2015-618 (IOCS No. : 41834)
Emission test report:	CTOPK 0513 Dt. 14.12.2015 (Nitin Cylinder - Suzuki Cat Con – Champion Spark Plug) (P-139/C)

1. Details of CNG Cylinder

CNG Cylinder	Option1	Option 2	Option 3	Option 4	Option 5	Option 6
Manufacturer	M/s. Faber, Italy	M/s. Lizer Technologies Ltd.	M/s. Everest Kanto Cylinder Ltd.,	M/s. Maruti Coatsu Cylinders Pvt. Ltd.	M/s. Sahuwala High Pressure Cylinder P. Ltd.,	M/s. Rama Cylinders Pvt. Ltd.,
Capacity, Ltr.	45, 55 & 60	60 & 65	45,50,55,58, 60,63 & 65	45,50,55,60 & 65	55, 60 & 65	50, 55, 60 & 65
CNG Cylinder	Option 7	Option 8	Option 9	Option 10	Option 11	Option 12
Manufacturer	M/s. Jay Fe Cylinder Ltd	M/s. Nitin Cylinders Ltd.,	M/s. Confidence Petroleum India Ltd.,	M/s. EURO India Cylinders Ltd.	M/s. Associate High Pressure Technologies Pvt. Ltd.	M/s. Sarju Impex Limited
Capacity, Ltr.	45, 50, 55, 60 & 65	45, 50, 55, 60 & 65	45, 50, 55, 60 & 65	60 & 65	60, 62, 65 & 70	60, 65 & 70

2. Details of Cylinder Valves

Cylinder Valve	Option 1	Option 2	Option 3
Name of the manufacturer	M/s Emer s.r.l, Italy	M/s. Tekno Valves	M/s. OMB Saleri SpA, Italy
Model /Identification	119 Type /Tipovalve DGM 51684 GM Quarter turn Shut – off valve	Tekno Quarter turn Shut – off valve	ALFA / OMB Manual Shut – off valve

3. Details of Refueling Valves

Name of the manufacturer	M/s Emer s.r.l, Italy
Model Name / I.D/Type	198-2B / DGM 41037 GM Quarter Term Shut off Valve

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4. Details of Pressure Regulator		
Name of the manufacturer	Officine Lovato S p A Italy	
Model Name / Identification/Type	LOVATO/RME 090 CNG Electronic Reducer	
5. Details of Catalytic converter		
Name of Manufacturer	MUL (OE fitted)	
Model Name / Identification No.	SUZUKI, 79F -CO1	
6. Details of Gas Air Mixer		
Name of the manufacturer	Officine Lovato S p A, Italy	
Model Name / ID / Type	LOV-IM in ECL 1 x 856001 / Venturi type	
7. Details of Pressure Indicator		
Name of the manufacturer	WIKA, Italy	Minda Industries Ltd.
Identification / Type	Wika / Analogue Type	Minda Impco / Analogue Type
8. Details of Service shut off valve		
Name of the manufacturer/	Emer S.r.l	
Identification / Type	Nil / Quarter Turn Shut off Valve	

Kit Manufacture/Supplier/Distributor is directed to ensure the strict compliance of CMV 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 ARAI / 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. ARAI/CMVR-CNG(In-Use)/ 166B(E3-589)/2006-598 dt. 17.10.2006 and also invariably enclose certified copy of CNG specifications along with CNG installation certificate (Annexure VI) and checklist (Annexure-VII) of AIS: 024 and specific layout plan of model approved by ICAT.

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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 ARAI / 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.

(MAHARAJ SINGH)
MVI (OPS)

No. F. 20(95)/TPT/OPS/2011/

Dated May 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, No. 89, Bishop Garden, Greenways Road, Chennai - 600028.
3. S.A (Computer) for uploading on the website
4. Guard File

(MAHARAJ SINGH)
MVI (OPS)