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

No. F.DC/OPS/TPT/619/2016/1445-48

Dated: 08 June
May, 2016

CIRCULAR

The Competent Authority is pleased to grant the approval for endorsement of CNG Kit identification "LOVATO AUTO GAS-RME" manufactured by **M/s. Lovato Gas S.p.A. Italy C/o M/s. Officine Lovato Pvt. Ltd., 308, 3rd floor, Town Center 1, M.V. Road, Nr. Mittal Estate, Andheri Kurla Road, Andheri (East), Mumbai-400059,** for retro fitment on "in-use" diesel driven vehicles "TATA STAR BUS" fitted with **497 TC (3783 cc) engine and catalytic converter as part of CNG Kit manufactured from 01st January 2005 till the validity of BS-III norms.** The CNG Kit is dully approved by the designated agency i.e ICAT, Manesar, Gurgaon for compliance to the Central Motor Vehicles Rules. The details of CNG Kit are given hereunder.

Vehicle manufacturer / Model retrofitted/Month & Year of Manufacture/ Regn.		Approved by the Testing Agency vide Certificate no.	
Vehicle manufacturer : M/s. Tata Motors Ltd. BASE MODEL retrofitted with CNG Kit : TATA STAR BUS Type : M3 (Bus) Engine Model : 497 TC Seating capacity : 28 persons Engine Cylinder capacity : 3783 cc Engine Power : 60.0 kW @ 2500 rpm Emission Norms : BS-III Manufactured in : October, 2005 GVW : 7640 Kg. CNG kit manufacturer : M/s. Lovato Gas S.p.A. Italy CNG Kit Identification : LOVATO AUTO GAS - RME		Certificate No. CAJA 0060 dated 08/05/2014 Case No. 2013-785 (IOCS No. 34157) Emission Test Report No. : CT0EJ 0149 Dt. 07.04.2014 (Everest Kanto - Cylinder, Spark Plug-MICO Super, Catcon-ENGELHARD, CNG testing without TC	
The testing agency has certified that the above CNG converted "in-use" Diesel vehicle model complies with the relevant provisions of CMVR, 1989 as detailed in ANNEXURE-I to TAC No. CAJA 0060 dt. 08.05.2014 including following requirements :			
Mass Emission Standards	Notification No. & Date	Effective from	CMV Rule
Prevalent Type Approval norms - For conversion by modification of engine of In-use Diesel Vehicle	GSR 686 (E) dt. 20.10.2004	01.04.2005	115 B B.(II) & 115 (14)(D)
Bharat Stage-III			
Idling CO & NHMC	GSR 111 (E) dt. 10.02.2004	01.10.2004	115 (2) (i)

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08/05/2016

Compliance of Mass Emission Standards & Validity (Ref. 115B.B.(ii) Clause (c), as per GSR 589(E) and Note 7 amended by GSR 589(E)

This certificate is Valid for :-

1.CNG converted "In-Use" diesel vehicle "TATA STAR BUS (October 2005 make), fitted with 497 TC engine, when fitted Catalytic Converter as a part of CNG Kit, meets the Bharat Stage – III norms, manufactured from 01st January, 2005 till validity of Bharat Stage-III norms.

2.This Certificate is valid for 3 years from the date of its issue of base certificate No. CAJA 0060 dated 08/05/2014 or until further amendment in CMVR Rules, whichever is earlier.

1. Details of CNG Cylinders

CNG Cylinder	Option 1	Option 2	Option 3	Option 4
Manufacturer	M/s. Everest Kanto Cylinder Ltd.	M/s. Rama Cylinders Pvt. Ltd.	M/s. Lizer Technologies Ltd.	M/s. Jay Fe Cylinders Ltd.
60, 65, 80 & 90				
Option 5	Option 6	Option 7	Option 8	
M/. Confidence Petroleum India Ltd.	M/s. Nitin Cylinder Limited	M/s. Maruti Coatsu Cylinders Limited	M/s. Sahuwala Higer Pressure Cylinders Ltd.	
60, 65, 80 & 90				

2. Details of Cylinder Valves

Cylinder Valve	Option 1	Option 2	Option 3	Option 4
Name of the manufacturer	Emer S.r.l Italy	Tekno Valves	OMB Saleri SpA, Italy	Vanaz Engineering Ltd.
Model Name / Identification	119 Type – Tipovalve DGM 51684 GM	Tekno	ALFA/OMB	VANAZ
Type	Quarter turn Shut – off valve	Quarter turn Shut – off valve	Manual Shut – off valve	Hand wheel Operated

3. Details of Refueling Valves

Refueling Valve	Option 1	Option 2
Name of the manufacturer	Emer S.r.l., Italy	OMB Saleri SpA
Model Name / I.D/Type	198-2B-DGM 41037 GM / Quarter turn Shut – off valve/NZS	DGm41037GM/ Quarter turn Shut – off valve/NZS

4. Details of Pressure Regulator

Name of the manufacturer	Officine Lovato S.p.A, Italy
Model Name / Identification / Type	RME 140. TAC No. : A 92318 / CNG Electronic Reducer

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5. Details of Gas –Air mixer		
Name of the manufacturer	Officine Lovato S.p.A, Italy	
Model Name / Identification/ Type	LOV IM 06 / LOVATO / Venturi Type	
6. Details of Catalytic converter		
Name of the manufacturer	OE fitted	
Model Name / Identification	ENGELHARD	
7. Details of Pressure Indicator		
Name of the manufacturer	WIKA, Italy	LOVATO Italy
Identification / Type	Wika / Analogue	LOVATO / Analogue
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, as amended from time to time. The retro-fitment shall 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 as per the lay out plan.

The Kit Manufacture/ Installer must comply with Annexure-II to the TAC No CAJA 0060 dated 08/05/2014 and also invariably encloses certified copy of specifications 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/CMVI 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, from 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.DC/OPS/TPT/619/2016/ 1445-48

Dated: 08 June 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. Italy C/o M/s. Officine Lovato Pvt. Ltd., 308, 3rd floor, Town Center 1, M.V. Road, Nr. Mittal Estate, Andheri Kurla Road, Andheri (East), Mumbai-400059.
3. S.A (Computer) for uploading on the website of the department.
4. Guard File.

(MAHARAJ SINGH)

MVI (OPS)