

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

No. F. 20(212)/DC(Ops)/Tpt./2011/CD No.075345785/ 1147-50

Dated: May 18, 2016

CIRCULAR

The Competent Authority is pleased to grant the approval for endorsement of CNG Kit identification "TRINITY STAG" manufactured by **M/s. Trinity Gas Care Pvt. Ltd. No. 48/62, Nelson Manickam Road Aminjikarai Chennai – 600029**, for retro fitment on MPFI "in-use" gasoline vehicles between stipulated engine cylinder capacity range **(897.75 to 1496.25 CC)** fitted with **OE catalytic converter** as part of CNG Kit, manufactured / registered from **01st April, 2013 till the validity of BS IV norms (OBD II)**. 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:-

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Vehicle manufacturer / Model retrofitted/Month & Year of Manufacture/ Regn.				Approved by the Testing Agency vide Certificate no.	
Vehicle Manufacturer: Hyundai Motors India Ltd. MODEL/Make : Hyundai i10 Sportz 1.2 (June, 2013) Type/Seating capacity: Passenger Car/5 persons Engine Power/Capacity : 52kW@5200 rpm /(1197 CC) Emission Norms : BS-IV GWV kg. : 1510 Make (CNG Kit) : M/s. Trinity Gas Care Pvt. Ltd. CNG Kit Identification : TRINITY STAG Applicable Engine Range : (897.75 to 1496.25 CC)				Certificate No. CALA 0064 dated 21/03/2016 Case No. 2015-815 (IOCS Ref. 43041) Emission Test Report No. : CTOPL 0151 Dt. 11.03.2016 (Everest Kanto Cylinder – Hyundai Cat Con – Champion Spark Plug)	
The testing agency has certified that the above CNG converted "in-use" gasoline vehicle model complies with the relevant provisions of CMVR, 1989 as detailed in ANNEXURE-I to TAC No. CALA 0064 dated 21/03/2016 including following requirements :					
Mass Standards	Emission	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 amendment	115 B A (II)
	Idling CO & NMHC	GSR 103(E) dt. 23.02.2012	23.02.2013		115 (2) (i)
Type Approval norms for Petrol Vehicles	Bharat Stage-IV (For Notified Areas)	GSR 84 (E) dt. 09.02.2009	01.04.2010		115 (14) (G), 15(a), (b) (i)
			01.04.2013		
			(OBD II)		
	GSR 443(E) dt. 21.05.2010	01.04.2010			
	GSR 504(E) dt. 16.07.2014	01.10.2014			
Compliance of Mass Emission Standards & Validity (Ref. 115B.A.(ii) Clause (iv), as per GSR 84(E) dt. 09.02.2009, GSR 443(E) dt. 21.05.2010 & GSR 504(E) dt. 16.07.2014					

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Validity :-

- The above CNG converted "In-Use" base model "**Hyundai i10 Sportz 1.2 (June, 2013), fitted with "TRINITY STAG" CNG KIT** fitted with O.E. Catalytic Converter, meets the Bharat Stage – IV norms. Same kit can therefore be fitted on the MPFI vehicles fitted with O.E. Catalytic converter, between stipulated Engine cylinder capacity range (**897.75 to 1496.25** cm³) manufactured / registered from **01st April, 2013 till the validity of BS IV norms**, subject to specific approval, for layout plan by ICAT, for retro fitment of CNG kit in each vehicle model.
- This Certificate is valid for 3 years from the date of issue of base type approval certificate No. CALA 0064 dated 21/03/2016 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	Option 5	Option 6
Manufacturer	M/s. Everest Kanto Cylinder Ltd.,	M/s. Lizer Cylinders Ltd.	M/s. Rama Cylinders Ltd.,	M/s. Confidence Petroleum India Ltd.,	M/s. Sahuwala High Pressure Cylinder P. Ltd.,	M/s. Nitin Cylinders Ltd.,
Capacity, Ltr.	50, 60 (Dia : 316mm) 65, 70 (Dia : 356mm)	50, 60 (Dia : 317mm) 65, 70 (Dia : 356mm)		50, 60 (Dia : 325mm) 65, 70 (Dia : 356mm)		50, 60 (Dia : 325mm)

2. Details of Cylinder Valves

Cylinder Valve	Option 1	Option 2	Option 3
Name of the manufacturer	M/s. OMB Saleri SpA	M/s. Batra Valve	M/s. Emer Srl, Italy
Model Name / Identification	Alfa / ECE-R-110 / OMB Cylinder Valve	BV/CNG-1/000 /CNG Cylinder Valve	Vale-119 EMER Cylinder Valve

3. Details of Refilling Valves

Refilling Valve	Option 1	Option 2	Option 3
Name of the manufacturer	M/s. Emer	M/s. B&H s.r.rl Argentina	M/s. OMB Saleri SPA
Model Name / I.D/Type	41037 DGM / CNG Filling Valve	BVG 204/2 CNG Filling Valve	Alfa / ECE-R-110 / CNG Filling Valve

4. Details of Pressure Regulator

Name of the manufacturer	M/s. Tomasetto Achille S.P.A	M/s. Mijo AutoGas Pvt. Ltd.
Model Name / Identification/Type	AT-12 (TAC-CA0918, Dt.26.05.2010 (COP CCOCJ 2237 Dt. 17/11/2014) / 2 Stage Electronic	Model: Hilton (TAC:CD0905, Dt. 03.06.2013) / 2 Stage Electronic

5. Details of Pressure Indicator

Name of the manufacturer	M/s Wika / CNG Gauge
Identification / Type	---

6. Details of Service shut off valve

Name of the manufacturer	Part of CNG reducer
Identification / Type	---

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7. Details of Catalytic convertor	
Name of the manufacturer	Make : KIA, Model : KS640
Identification / Type	---
8. Details of Gas Injector	
Name of the manufacturer	M/s. RAIL spa, Italy
Identification / Type	IG1 / Injector

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.

The Kit Manufacture/ Installer must comply with Annexure-II to the TAC No CALA 0064 dated 21/03/2016 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.

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. 20(212)/DC(Ops)/Tpt./2011/CD No.075345785/ 1147-50

Dated: May 18, 2016

Copy forwarded for information and necessary action to:-

1. All MLOs/CMVI (Burari)/Programmer, Transport Department.
2. M/s. Trinity Gas Care Pvt. Ltd. No. 48/62, Nelson Manickam Road Aminjikarai Chennai - 600029.
3. S.A (Computer) for uploading on the website of the department.
4. Guard File.

(MAHARAJ SINGH)
MVI (OPS)