



C A R A 1020

Date : 13<sup>th</sup> October 2022

ANNEXURE - IA

This Certificate is issued subject to the following conditions:

- i. The "In-Use" Diesel vehicle model "TATA LP 1512 TC/52 (June 2010 make)", retrofitted with CNG kit M/s. Shigan Telematics Private Limited (STPL), shall have CNG Cylinder and Cylinder Valve approved by PESO, Nagpur, for the following:
  - A) The cylinders are filled at a pressure not exceeding 204 kgf/cm<sup>2</sup> at 15° C.
  - B) The cylinders are subjected to hydrostatic stretch test at a pressure of 340 kgf/cm<sup>2</sup> as required under rule 35 of the Gas Cylinders Rules, 2016.
  - C) Other relevant provisions of the said rules are complied with.
- ii. CNG Injector is of the type and design (Ref. Point 15 of Technical Specifications of CNG system).
- iii. Any Change in the CNG System Specifications or Layout will call for recertification.
- iv. This Certificate is issued by ICAT exclusively for fitment of the CNG system of M/s. Shigan Telematics Private Limited (STPL), with following CNG Cylinders, on the CNG Converted "In-Use" diesel vehicle "TATA LP 1512 TC/52 (June 2010 make)". For details of CNG cylinder refer ANNEXURE III.
- v. The onus of verification of fitness / proper functioning of CNG system on each and every vehicle, including endorsement as "operation on CNG" by the concerned Registering Authorities, under this Certificate lies with M/s. Shigan Telematics Private Limited (STPL).
- vi. Registering Authorities shall, at the time of registration, verify the PESO approval for the CNG cylinder and Cylinder Valve, in respect of make / identification no. (as referred in Point 3 & 4 of Technical Specifications of CNG system) and documental reference for Quantity / Sr. No. cleared by PESO, time to time.
- vii. In addition, compliance to Safety Checks, Requirements shall be verified by the designated Authorities, as and whenever necessary, based on the following guidelines:

| Annex. to AIS 024 (Rev1)(Part A) | Details   | Responsibility   | Applicable for CNG Vehicles |
|----------------------------------|---|--|-----------------------------|
| III                              | Checklist for fitness tests and certification for In-Use vehicles after fitment / conversion to CNG mode  | Undertaking by Kit Installer, Verification by RTO                  | In-Use                      |
| IV                               | Safety checks for use of CNG fuels in internal combustion engines vehicles (as per AIS 028(Rev.1) (Part A), ) & Gas cylinder rules, 2016  | PESO / Test Agency   | All                         |
| V                                | Criteria to authorize the kit installer and responsibility of vehicle / kit manufacturer / supplier / Installer (Including Inspection, Testing & Commissioning, Garaging & Repairs, etc.)   | Vehicle Manufacturer (O.E.)<br>Kit Manufacturer (In-Use)           | All                         |
| VI                               | Installation Certificate for converted CNG vehicle (A checklist given in the APPENDIX-A under AIS-024 (Rev.1) (Part A) may be referred by the Kit Installer at the time of inspection prior to issuing installation certificate). | Undertaking by Kit Installer, Verification by Designated Authority | All                         |
| VII                              | Checklist for third party checking or inspection of built-up CNG buses before registration  | RTOs before Registration / Designated Authority                    | All Buses                   |
| VIII                             | Checklist for preventive maintenance of In-Use CNG vehicles   | Workshop authorised by Kit Installer                               | In-Use                      |
| AIS - 028 (Rev.1) (Part A)       | Code of practice for use of CNG fuel in internal combustion engines vehicles-AIS 028 (Rev.1) (Part A), and respective standards referred in the Notification No. GSR 643(E) dt. 27.06.2017 & GSR 1151(E) dt. 29.11.2018)          | PESO / Test Agency   | All                         |

AUTHORISED SIGNATORY

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| <b>VIJAYANTA AHUJA</b><br>DEPUTY GENERAL MANAGER |  | <b>PAMELA TIKKU</b><br>DIRECTOR (Offg.) |
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