



**C | A | R | A | 1176**

**Date : 07<sup>th</sup> December 2022**

**ANNEXURE - I**

<b>Rule No.</b>	<b>Sub Rule(s)</b>	<b>Description</b>	<b>Standard</b>
114	(1) (2)	Exhaust gases Location of exhaust pipes	GSR 240(E) dt. 31.03.2021
115-B	BB (II) & (D)	Mass Emission Standards for LNG vehicles (For in-use Diesel Vehicle converted to LNG)	GSR 84 (E) dt. 09.02.2009 & GSR 1151(E) dt. 29.11.2018 & Part XV of MoRTH/CMVR/TAP-115/116
	BB (II)	Electromagnetic compatibility (EMC)	AIS-004 (Part 3)-2009
115-B	(E)	—LNG Safety Checks for LNG Kit Components and Installation on the vehicle	As per AIS 024 Rev1 & 028 Rev1 and respective standards referred in the Notification No.GSR 643(E) dt. 27.06.17, GSR 490(E)dt.24.05.18 & Gas Cylinder Rules, 2016
124	(4) Sl. No. 5	The procedure for Type Approval and establishing Conformity of production for components – LNG Regulator Model No: PCMB1010P55F1500-A16/A Report No. CT0GR 9240 dt. 13.09.2022	GSR 784(E) dt. 12.11.2008
Mass Emission Test, Engine Performance, Gradeability, Range Test, Cooling Performance, and Fuel Consumption Test. (Ref: GSR 589(E) dt. 16-09-2005 , GSR No. 853(E) dt. 19-11-2001& GSR 84 (E) dt. 09.02.2009)		Meets the requirement of sub clauses (i),(ii),(iii),(v), (vi) & (vii)	

**ANNEXURE - II**

<b>Standards</b>	<b>Notification</b>	<b>Date</b>	<b>Effective From</b>	<b>Applicable CMVR</b>
Safety Checks for use of LNG Fuels in internal combustion engined vehicles (as per AIS 024 & 028(Rev.1) (Part A) and Gas Cylinder Rules, 2016	GSR 643(E)	27.06.2017	27.06.2017	115-B (E)
	GSR 490(E)	24.05.2018	01.10.2018	

**Compliance of Mass Emission Standards & Validity**

LNG converted “In-use “ diesel vehicle “LPT 1613 TC/52” (October 2012 make) with B-5.9 130 31 engine, fitted with catalytic converter as a part of LNG kit, meets the **Bharat Stage – IV** norms. Same kit can be fitted on the vehicle model/variants fitted with the same capacity engine manufactured/registered from **1<sup>st</sup> January 2012 to 31<sup>st</sup> March 2020**, subject to specific approval, for layout plan by ICAT, for retrofitment of LNG kit.

<b>ICAT Ref No.</b>	2022-0778.; IOCS No. 159572
<b>Emission Report No.</b>	C T O E R 0477 dt. 29.11.2022 (Spark Plug-BOSCH (FR6DC4), Catcon-TWV Catalytic Converter Co., Ltd. China (5263133), ECU-M/s.Omnitek Engineering Corp. USA (ECM66AATA), Gas Injector- M/s.Omnitek Engineering Corp. (IG-6)

<b>AUTHORISED SIGNATORY</b>		
VIJAYANTA AHUJA DEPUTY GENERAL MANAGER	 <b>INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY</b> <b>ICAT</b> <b>Innovation • Service • Excellence</b> <b>MANESAR</b>	
SAURABH DALELA DIRECTOR		Page 2 of 3