



C A T A 0203

Date : 29<sup>th</sup> February 2024

ANNEXURE - I

| Rule No.  | Sub Rule(s)   | Description  | Standard  |
|---|---------------|--|---|
| 114   | (1)           | Exhaust gases  | GSR 240(E) dt. 31.03.2021   |
|   | (2)           | Location of exhaust pipes  |   |
| 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 - Pressure Regulator Model No: PRMM-LA-14554 Report No. CT1GS 9415 Dt. 21.07.2023 | GSR 784(E) dt. 12.11.2008   |
| Mass Emission Test, Engine Performance, Gradeability, Fuel Consumption Test and Cooling Performance (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), (iv) & (vii)   |

ANNEXURE - II

| Standards   | Notification | Date       | Effective From | Applicable CMVR |
|---|--------------|------------|----------------|-----------------|
| Safety Checks for use of LNG Fuels in internal combustion engines (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 "2516T Tusker Super " (June 2010 make) with Hino 6 engine, fitted with catalytic convertor 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> April 2010 to 31<sup>st</sup> March 2020, subject to specific approval, for layout plan by ICAT, for retrofitment of LNG kit.

ICAT Ref No. 2023-1672.; IOCS No. 172347

Emission Report No. C T O E S 0253 dt. 10.05.2023 (Spark Plug-BOSCH (FR3DE), Catcon-VICAT (ZOMM-LC-1111), ECU-M/s. Shigan Quantum Technologies Limited (SQT-i6), Gas Injector- IG4 Dakota

AUTHORISED SIGNATORY

|                               |  |                            |             |
|-------------------------------|--|----------------------------|-------------|
|                               |  |                            |             |
| JAYWANT HARDIKAR<br>HEAD-CMVR |  | SAURABH DALELA<br>DIRECTOR | Page 2 of 3 |