

कार्यालय परिवहन आयुक्त, उत्तराखण्ड,
कुल्हान, सहस्त्रधारा रोड़, देहरादून।

संख्या- /TR/23-VII/सी0एन0जी0किट/2020

दिनांक 29, जुलाई, 2020

आदेश

केन्द्रीय मोटरयान नियमावली, 1989 के नियम 115 बी में in use वाहनों में सी0एन0जी0 किट लगाये जाने की व्यवस्था की गयी है। इस सम्बन्ध में कार्यालय ज्ञाप संख्या-3460/टी0आर0/5/CNGKIT/2019-2020 दिनांक 04-11-2019 के द्वारा सी0एन0जी0 किट के रिट्रोफिटमेंट हेतु अनुमोदन की प्रक्रिया निर्धारित की गयी है, जिसके अन्तर्गत M/s Highrise International Pvt. Ltd. द्वारा केन्द्रीय मोटरयान नियमावली 1989 के नियम 126 में वर्णित टेस्टिंग एजेंसी ICAT, Manesar द्वारा नार्म्स के अनुरूप होने के प्रमाण संख्या- CAMA-0121 Dated 29th may 2017, CAMA-0121 E01 Dated 10th July 2017, CAMA-0121 E02 dated 06th march 2018, CAMA-0121 E03 Dated 24th April 2018, CAMA-0121 E04 Dated 17th Sept 2018, CAMA 0121 E05 Dated 19th March 2019 प्राप्त कर लिये गये हैं। उक्त प्रमाण पत्र के आधार पर M/s Highrise International Pvt. Ltd. द्वारा सी0एन0जी0 किट मॉडल-Highrise (Vehicle Engine cm2 Range-897.75 to 1496.25) को in use पेट्रोल चालित वाहन मॉडल Hona Amaze (BSIV) में रिट्रोफिटमेंट कर प्रस्तुत की गयी, जिसका संयुक्त निरीक्षण उप परिवहन आयुक्त एवं सम्भागीय निरीक्षण (प्राविधिक) देहरादून द्वारा किया गया। उक्त सी0एन0जी किट एवं सिलेण्डर/वाल्व का संक्षिप्त विवरण निम्नानुसार है:-

**1-Detail of Kit Manufacturer/
Supplier/ Installer-**

M/s Highrise International Pvt. Ltd.
3473, Second Floor, Street No-6,
Nicholson Road, Kashmeri Gate,
New Delhi.

2-CNG Kit Identification no-

Highrise

3- CNG Cylinder (DOE Approved/Endorsed):

Name of Manufacturer	M/s Everest kanto cylinder Ltd.	M/s Rama Cylinder Pvt. Ltd.	M/s Sahuwala High Pressure Cylinder Pvt. Ltd.	M/s Jay Fe Cylinder Ltd.	M/s Lizer Cylinder Ltd	M/s Worthington Nitin cylinders Ltd.	M/s Beijing Tianhai Industries Co. Ltd.	M/s Euro India Cylinder Ltd.
Model name & Identification No./Sr.no	EKC (B2H60C 24658) CM/L7579906	RAMA	ECON	JAY FE	LIZER	NITIE	BTIC	EICL
Type	Steel cylinder	Steel cylinder	Steel Cylinder	Steel Cylinder	Steel Cylinder	Steel Cylinder	Steel Cylinder	Steel Cylinder
Max test Pressure (kg/cm2)/MPa	340 kg/cm ²	340 kg/cm ²	340 kg/cm ²	340 kg/cm ²	340 kg/cm ²	340 kg/cm ²	340 kg/cm ²	340 kg/cm ²
Working Pressure (KG/cm2)/MPA	204 kg/cm ²	204 kg/cm ²	204 kg/cm ²	204 kg/cm ²	204 kg/cm ²	204 kg/cm ²	204 kg/cm ²	204 kg/cm ²
Cylinder Capacity (water Equivalent) and Dia in mm	267 mm 50,60,65(Ltrs) 317 mm 55,58,60,65,70(Ltrs) 356 mm 55,58,60,65,70,75,80,85,90(Ltrs)	317mm 50,55,60,65,70 (Ltrs) 356 mm 50,52,53,55,57,58,60,62,63,65,70,75,78,80,82,85,90 (ltrs)	316mm 50,55,60,65,70 (Ltrs) 325mm 50,55,60,65,70,75,80,82,85,90 (ltrs)	317 mm 50,55,60,65 (Ltrs) 356 mm 50,55,60,65,70,75,80,90 (Ltrs)	317 mm 50,55,60,65 (Ltrs) 356 mm 50,55,60,65,70,75,80,90 (Ltrs)	316 mm 60, 65 (Ltrs) 356 mm 60, 65 (Ltrs)	325mm 55, 60, 65,70 (Ltrs)	316 mm 50, 55,60, 65 (Ltrs) 356 mm 57,60, 65,70 (Ltrs)
Approval Reference from DOE	G3(42)573/ Dt: 17-08-2011 G3(42)312/vii Dt: 21-09-11 G3(42)312/VII dt-127-04-2015 G3(42)312/VII/ Dt 16-09-2011 G3(42)573/l/ Dt 24-11-2016	G3(42)515/VI DT-20-05-11 G3(42)553/l Dt- 11-11-2010	G3 (42) 544/III dt 06-05-2011 G3 (42) 544/I dt 24-12-2008	G.3(42) 557/I Dt-22/12/2009	G.3(42)536 Dt-18-3-2008 G.3(42)536/l Dt-10-12-2008	G.3(42) 530/II Dt- 15/10/2010	G.3(4)71/BTI C/Approval/I Dt- 18/12/06	G.3(42)572/ Dt- 14/10/2011 & G3(42) 572/I Dt. 14-12-2017

4. Cylinder Valve (DOE approved/endorsed):

Name of manufacturer	M/s OMB Saleri SpA	M/s Batra Valves		M/s Minda Emer Technologies Ltd.	M/s H.M Plastic	M/s Tomasetto Achille India pvt. Ltd.	M/s Kamnath Engineers	M/s Omax Brass Industries
Model name/Identification no	Alfa	BV/CN G-1/000	BATRA	CNG VALE	HMP	VM-01 & VM-05	KAMNATH	OBI
Type	OMB Cylinder Valve	CNG ONB Gas Cylinder Valve	CNG Manual Cylinder Valve	MINDA EMER Cylinder Valve	GNG Manual Cylinder Valve	CNG Manual & CNG Automatic Cylinder Valve	CNG Cylinder Manual Valve	CNG Cylinder Valve with Rupture Disc Having Fusible alloy backing
Working pressure (KG/Cm ²) Mpa	204 kgf/cm ²	204 Kgf/cm ²	204 Kgf/cm ²	204 kgf/cm ²	204 kgf/cm ²	204 kgf/cm ²	204 kgf/cm ²	204 kgf/cm ²
Max Test pressure (kg/cm ²) Mpa	350 kgf/cm ²	350 kgf/cm ²	350 kgf/cm ²	350 kgf/cm ²	350 kgf/cm ²	350 kgf/cm ²	350 kgf/cm ²	350 kgf/cm ²
Approval reference form DOE	G-3(4)166 Dt 3/06/2009	G3(40)87 Dt 23-11-2011	G3(40)87 Dt 19-02-2013 G3(40)87 Dt 24-10-2017	G.3(40) 230 Dt 01-03-2017	G-3(40)225 dt 22/5/2015	G.3(4)151/II Dt-18-07-2013	G.3(4)240/ Dt-03-01-2018	G.3(4)247/ Dt-23-10-2018

5. ICAT, Manesar द्वारा प्रदत्त Layout plan Approval certificate no- CAMA-0121L01 Dated 10th June 2017, CAMA-0121 L02 Dated 10th Oct 2017, CAMA 0121 L03 Dated 16th Feb 2018 & CAMA 0121 L04 dated 12th March 2018 में उक्त सी0एन0जी0 किट एवं सलेन्डर/वाल्व को निम्न मॉडल वाहन पर लगाये जाने के उल्लेख किया गया है:-

Sl. No.	Approved Vehicle Model	Engine CC	Mass Emission	ICAT Certificate No.	Validity for the conversion in use vehicles Manufactured & Registered from
1	Hyundai i20 Magna (O)	1197	BS-IV	CAMA 0021 L01 Date - 10th June. 2017	1 st April 2013 till the validity of Bharat Stage IV Norms
2	CHEVROLET BEAT	1199		CAMA 0036 L01 Date - 27 th Feb 2017	- do -
3	CHEVROLET ENJOY	1399		- do -	- do -
4	CHEVROLET SAIL (HATCHBACK)	1199		- do -	- do -
5	CHEVROLET SAIL (SEDAN)	1199		- do -	- do -
6	CHEVROLET SPARK	995		- do -	- do -
7	DATSUN GO	1198		- do -	- do -
8	DATSUN GO PLUS	1198		- do -	- do -
9	FIAT PUNTO EVO 1.2	1172		- do -	- do -
10	FIAT PUNTO EVO 1.4	1368		- do -	- do -
11	FIAT LINEA	1368		- do -	- do -
12	FIAT AVVENTURA	1368		- do -	- do -
13	FORD FIGO ASPIRE	1196		- do -	- do -
14	FORD ECOSPORT	999		- do -	- do -
15	FORD FIGO	1196		- do -	- do -
16	HONDA JAZZ	1199		- do -	- do -
17	HYUNDAI i20 ELITE	1197		- do -	- do -
18	HYUNDAI EON KAPPA MAGNA	998		- do -	- do -

19	HYUNDAI i10 1.1	1086	BS-IV	- do -	- do -
20	HYUNDAI GRAND i10	1197		- do -	- do -
21	HYUNDAI VERNA FLUIDIC 1.4	1396		- do -	- do -
22	HYUNDAI XCENT	1197		- do -	- do -
23	Honda Amaze	1198		- do -	- do -
24	HYUNDAI i20 ACTIVE	1197		- do -	- do -
25	HYUNDAI i20 MAGNA	1197		- do -	- do -
26	HYUNDAI i10 1.2	1197		- do -	- do -
27	HYUNDAI SANTRO	1086		- do -	- do -
28	HYUNDAI SANTRO XING	1086		- do -	- do -
29	MAHINDRA KUV 100	1198		- do -	- do -
30	MAHINDRA VERITO	1390		- do -	- do -
31	MARUTI ALTO K10	998		- do -	- do -
32	MARUTI ASTAR	998		- do -	- do -
33	MARUTI BALENO	1197		- do -	- do -
34	MARUTI CIAZ	1373		- do -	- do -
35	MARUTI SWIFT DZIRE	1197		- do -	- do -
36	MARUTI EECO (5 SEATER)	1196		- do -	- do -
37	MARUTI EECO (7 SEATER)	1196		- do -	- do -
38	MARUTI EECO CARGO	1196		- do -	- do -
39	MARUTI ERTIGA	1373		- do -	- do -
40	MARUTI RITZ	1197		- do -	- do -
41	MARUTI SWIFT	1197		- do -	- do -
42	MARUTI WAGON R	998		- do -	- do -
43	MARUTI WAGON R STINGRAY	998		- do -	- do -
44	MARUTI IGNIS	1197		- do -	- do -
45	MARUTI GYPSY	1298		- do -	- do -
46	MARUTI ZEN ESTILO	998		- do -	- do -
47	MARUTI CELERIO	998		- do -	- do -
48	NISSAN MICRA ACTIVA	1198		- do -	- do -
49	NISSAN MICRA	1198		- do -	- do -
50	RENAULT KWID	999		- do -	- do -
51	RENAULT PULSE	1198		- do -	- do -
52	SKODA RAPID 1.2	1198		- do -	- do -
53	SKODA OCTAVIA	1395		- do -	- do -
54	SKODA FABIA	1198		- do -	- do -
55	TATA MANZA	1368		- do -	- do -
56	TATA INDIGO Ecs	1193		- do -	- do -
57	TATA ZEST	1193		- do -	- do -
58	TATA BOLT	1193		- do -	- do -
59	TATA INDICA XETA	1193		- do -	- do -
60	TATA TIAGO	1199		- do -	- do -
61	TATA INDICA VISTA	1172		- do -	- do -
62	TATA ZICA	1199		- do -	- do -
63	TOYOTA ETIOS	1496		- do -	- do -
64	TOYOTA ETIOS LIVA	1197		- do -	- do -
65	TOYOTA ETIOS CROSS G	1197		- do -	- do -
66	TOYOTA ETIOS CROSS V	1496		- do -	- do -
67	VOLKSWAGEN POLO	1198		- do -	- do -
68	VOLKSWAGEN CROSS POLO	1198		- do -	- do -

69	VOLKSWAGEN VENTO	1197	BS-IV	- do -	- do -
70	VOLKSWAGEN JETTA	1390		- do -	- do -
71	VOLKSWAGEN AMEO	1198		- do -	- do -
72	HONDA BRIO	1198		CAMA-0121 L02 DATED 10 TH OCTOBER 2017	- do -
73	MARUTI DZIRE	1197		- do -	- do -
74	MARUTI TOUR S PETROL	1197		- do -	- do -
75	MARUTI DZIRE TOUR	1197		CAMA-0121 L03 DATED 16 TH FEBRUARY 2018	- do -
76	MARUTI SWIFT DZIRE TOUR	1197		- do -	- do -
77	HONDA WR-V	1199		- do -	- do -
78	DATSUN REDI GO	999		- do -	- do -
79	HYUNDAI XCENT PRIME	1197		- do -	- do -
80	TATA TIGOR	1199		- do -	- do -
81	TATA NEXON	1198		- do -	- do -
82	TOYOTA PLATINUM ETIOS	1496		- do -	- do -
83	HONDA BRIO	1198		CAMA-0121 L04 DATED 12 TH MARCH 2018	- do -
84	MARUTI DZIRE	1197		- do -	- do -
85	MARUTI TOUR S PETROL	1197		- do -	- do -

अतः उक्त सी०एन०जी० किट/सिलेंडर/वाल्ब को प्रोटोटाइप एजेन्सी द्वारा अनुमोदित विशिष्टताओं के अनुसार उपरोक्त 85 मॉडल वाहनों पर रिट्रोफिटमेंट निम्नलिखित प्रतिबन्धों एवं शर्तों के अधीन किये जाने की अनुमति प्रदान की जाती है:-

1. किट रिट्रोफिटमेंट के साथ वाहन में लगाये जाने वाले ऑटो सीएनजी टैंक एवं मल्टीफंक्शन वाल्व के सुरक्षित होने के सम्बन्ध में सीसीओई के प्रमाण-पत्र की प्रति विक्रय के समय क्रेता को उपलब्ध करायी जाएगी, जिसे क्रेता द्वारा पंजीयन अधिकारी के समक्ष प्रस्तुत किया जाएगा।
2. वाहन में किट रिट्रोफिटमेंट किट निर्माता की अधिकृत कार्यशाला अथवा वाहन विनिर्माता द्वारा ही लगायी जायगी। इस प्रकार की कार्यशालाओं को जी०एस०टी० प्रमाण-पत्र उपलब्ध कराना अनिवार्य होगा।
3. किट के स्पेसिफिकेशन अथवा ले आउट में किसी प्रकार का परिवर्तन हाने पर इसकी सूचना सम्बन्धित प्रोटोटाइप एजेन्सी को तत्काल देनी होगी और पुनः टाइप एप्रूवल प्राप्त कर प्रस्तुत करना होगा।
4. किट के सम्बन्ध में सुरक्षा प्राविधान केन्द्रीय मोटरयान नियमावली, 1989 के नियम 115ख के बिन्दु (ड) के एनेक्जर IX एआईएस०24 और एआईएस०28 (आरईवी-1) में समय-समय पर यथा संशोधित -विनिर्धारित सुरक्षा सम्बन्धी अपेक्षाओं का अनुपालन किया जायेगा।
5. प्रत्येक किट स्थापित करने वाला (kit installer) यह सुनिश्चित करेगा कि लगायी जाने वाली किट सुरक्षित है तथा लगाये गये फ्यूल टैंक एवं मल्टीफंक्शन वाल्व के सम्बन्ध में सीसीओई प्रमाण-पत्र प्राप्त कर लिया गया है।
6. ऑटो सीएनजी टैंक वाहन में स्थायी रूप से स्थापित किया जायेगा।

7. ऑटो सीएनजी टैंक निर्माता के स्पेसिफिकेशन के अनुरूप ही लगाया जायेगा।
8. प्रोटोटाइप एजेन्सी से अनुमोदित किट का वाहन में रिट्रोफिटमेंट के पश्चात् विनिर्माता द्वारा वाहन स्वामी को सर्विस मैनुअल आर्वातक निरीक्षण और अनुरक्षण की निर्देशिका, सर्विस, मरम्मत अनुरक्षण हेतु पर्याप्त बुनियादी संरचना प्रदान की जायेगी।
9. किट निर्माता द्वारा किट उपयोगकर्ताओं का समुचित प्रशिक्षण देने की व्यवस्था की जायेगी।
10. किट निर्माता द्वारा केन्द्रीय मोटरयान नियमावली, 1989 के नियम 115ख के बिन्दु (च) के एनेक्जर X के उपबन्धों का अनुपालन सुनिश्चित किया जायेगा।
11. किट निर्माता द्वारा सीएनजी किट के रिट्रोफिटमेंट के समय मोटरयान अधिनियम, 1988 केन्द्रीय मोटरयान नियमावली, 1989 एवं उत्तराखण्ड मोटरयान नियमावली, 2011 की व्यवस्थाओं का अनुपालन करना होगा।
12. किट निर्माता द्वारा मोटर वाहन में विधिमान्य तरीके से किट रिट्रोफिटमेंट न किये जाने और या विधि की व्यवस्थाओं का अनुपालन सुनिश्चित न करने की दशा में अनुमोदन रद्द कर दिया जायेगा।
13. मोटर वाहनों में किट रिट्रोफिटमेंट के सम्बन्ध में किट निर्माता द्वारा परिवहन विभाग के सक्षम अधिकारी द्वारा अपेक्षित सूचनाओं को निर्धारित समय के भीतर उपलब्ध कराना होगा। साथ ही इस विषय में परिवहन आयुक्त द्वारा समय-समय पर जारी आदेशों का अनुपालन सुनिश्चित किया जाएगा।
14. किट निर्माताओं द्वारा अनुमोदन प्राप्त किट ही वाहनों में फिट की जाएगी और ऐसी किट का विवरण सम्बन्धित पंजीयन अधिकारी द्वारा पंजीयन प्रमाण पत्र में प्रविष्ट किया जाएगा।


संलग्न:- प्रोटोटाइप प्रमाण पत्र की प्रति।

(एस0के0सिंह)
उप परिवहन आयुक्त,
उत्तराखण्ड।

संख्या-1982/TR/CNG/2020 तददिनांकित।

प्रतिलिपि:- निम्नलिखित को अनुपालनार्थ हेतु प्रेषित।

- 1-समस्त सम्भागीय/सहायक संभागीय परिवहन अधिकारी, उत्तराखण्ड।
- 2-समस्त संभागीय निरीक्षक (प्राविधिक) उत्तराखण्ड।
- 3-सम्बन्धित पत्रावली।
- 4- M/s Highrise International Pvt. Ltd., 3473, Second Floor, Street No-6, Nicholson Road, Kashmeri Gate, New Delhi-110006


(एस0के0सिंह)
उप परिवहन आयुक्त,
उत्तराखण्ड।

BSIV
GATE

INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY
[A Division of NATRIP Implementation Society (NATIS), Govt. of India]

C	A	M	A	0121	E05
AO-0591					

Date: 19th March 2019

Cert	Brief	Drg	Total
03	07	-	10 pgs

EXTENSION - 5

To

CERTIFICATE FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES

- Based on the verification of documents / additional trials conducted on the CNG In-Use base model "Hyundai i20 Magna(O) (1197 cm³ – August 2013 make)" 4 Wheeler, with 1510 kg GVW, retrofitted with CNG kit by M/s.Highrise International Pvt Ltd, 3473 ,Second Floor, Street No.6,Nicholson Road, Kashmeri Gate, Delhi - 110 006, it is declared that the compliance to the provisions of the Central Motor Vehicles Rules,1989, as per the certificate referred in Annexure-I, is also applicable to the endorsed changes in technical specifications.
- The changes in the Technical Specifications, of the CNG In-Use base model and for layout plan approvals as declared by the kit installer, are given in Annexure – I.
- All conditions and compliance requirements, including validity, given in the certificate under reference are also applicable for this certificate.

DISCLAIMER

- ICAT issues "Type Approval Certificates" (TAC) for vehicles/ engines/gensets/ parts/ assemblies etc. based on the documents produced and/or prototype / vehicle(s) submitted by the applicant and testing thereof.
 - ICAT issues TAC in compliance to Motor Vehicle Act/ Central Motor Vehicle Rules/ Central Pollution Control Board rules and their provisions as amended from time to time or any other statutory orders under which ICAT is authorized. Other Rules/Acts are outside the purview/scope of the TAC.
 - Test(s) on prototype is/are carried out on the basis of standard procedures as notified under specific rules. Results of such tests are property of bearer of TAC. These results cannot be disclosed unless specifically ordered by Government, Court, etc.
 - The bearer of the TAC is under the obligation to ensure production strictly as per the provisions of the specific TAC.
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 - ICAT is no way responsible for any misuse or copying of any design/type/system in connection with entire vehicle/ engines/gensets/ components/parts and assemblies covered under the TAC.
 - Breach of any statutory provision of Indian laws or laws of other countries, will be sole responsibility of the bearer of the TAC and ICAT shall not be liable for any claims or damages. The bearer shall alone be liable for the same, and shall undertake to indemnify ICAT in this regard.
 - ICAT has the right, but not under obligation to initiate cancellation / withdrawal of the certificate issued. In case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of ICAT.
- The appropriate local court at Gurugram shall have the jurisdiction in respect of any dispute, claim or liability arising out of this certificate/report

AUTHORISED SIGNATORIES,

 VIJAYANTA AHUJA ASSISTANT GENERAL MANAGER		 DINESH TYAGI DIRECTOR	 Page 1 of 3
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Office Address : Centre-I : Plot No.-26, Sector-3, HSIIDC, IMT-Manesar, Gurugram-122050. Haryana (India)
 Centre-II : Plot No.-01, Sector-M-11, HSIIDC, IMT-Manesar, Gurugram-122050. Haryana (India)
 Phone : 0124-4586111, Fax : +91-124-2290005. E-mail: team@icat.in, Website : www.icat.in

(An ISO 9001:2008 and ISO 14001:2004 certified, score wise NABL accredited and BIS recognised Test House)

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C A M A 0121 E05

Date: 19th March 2019

ANNEXURE I




To

EXTENSION-5

Cert	Brief	Drp	Total
03	07	-	10 pgs

CERTIFICATE FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES

DETAILS OF CHANGE IN TECHNICAL SPECIFICATION							
1	M/s. Highrise International Pvt Ltd, 3473, Second Floor, Street No.6, Nicholson Road, Kashmeri Gate, Delhi - 110 006.						
2	CMVR CERTIFICATE No.	DATE	SPECIFICATION NO.				
	2.1	C A M A 0121	29.05.2017	HIPL/CNG-i20-BSIV(OBDII) dt. 19.04.2017			
	Valid Extension		E01	E02	E03	E04	E05
	3.1	Dated	10.07.2017	06.03.2018	24.04.2018	17.09.2018	19.03.2018
3	3.2	Specifications Revision	HIPL/CNG-i20 MAGNA(O)-BSIV(OBDII) Dt.17-Jun-17	HIPL/CNG-BRIO-BSIV(OBDII)-Dt.22-Nov-17	HIPL/CNG-AMAZE-BSIV(OBDII) Dt.21-Feb-18	HIPL/CNG-AMAZE-BSIV (OBDII) Dt.23-Aug-18	Refer Specifications under clause 5.
4	Nature of change		1. Inclusion of CNG Cylinder capacity & Cylinder Dia 2. Deletion of Cylinder capacity & Cylinder Dia for following Cylinder manufacturer: a) 75 ltr (Dia 316 mm) & 75, 80 ltr (Dia 325 mm) for M/s.Sahuwala b) 75 ltr (Dia 317 mm) for M/s.Rama 3. Addition of Optional make of Cylinder & Cylinder Valve . 4. Vendor addition of Pressure Regulator.				
5	Changes in Specifications						
	Sr. No.	Specifications Clause no.	Description	Parameter (Earlier)	Parameter (New Extension)		
	5.1	HIPL/CNG-AMAZE-BSIV (OBDII) Dt.16.01.19 Clause no: 3, 4 & 8	CNG Cylinder	1. M/s Everest Kanto Cylinder Ltd 2. M/s. JAY FE Cylinders Ltd 3. M/s Sahuwala High Pressure Cylinder (P) Ltd 4. M/s Rama Cylinder Pvt. Ltd 5. M/s Lizer Cylinder Ltd 6. M/s Worthington Nitin Cylinders Ltd 7. M/s Beijing Tianhai Industry Co. Ltd	1. M/s Everest Kanto Cylinder Ltd 2. M/s. JAY FE Cylinders Ltd 3. M/s Sahuwala High Pressure Cylinder (P) Ltd. 4. M/s Rama Cylinder Pvt. Ltd 5. M/s Lizer Cylinder Ltd 6. M/s Worthington Nitin Cylinders Ltd. 7. M/s Beijing Tianhai Industry Co. Ltd 8. M/s. Euro India Cylinders Ltd.		
			Cylinder Capacity (Ltr) & Dia	1. 50,60,65 (Dia 267 mm) & 55,58,60,65,70,75 (Dia 317 mm) & 55,58,60,65,70,75,80,85,90 (356 mm) 2. 60 & 65 (Dia 316 & 356 mm) 3. 50,55,60,65,70,75 (Dia 316) & 50,55,60,65,70, 75,80 (Dia 325 mm) & 50,55,60,65,70, 75,80,85, 90 (356 mm) 4. 50,55,60,65,70,75 (Dia 317 mm) & 50,52,53,55, 57,58,60,62,63,65,70,75,78,80,82,85,90 (Dia 356 mm) 5. 50,55, 60,65 (Dia 317 & 356mm) & 70,75,80,85,90 (Dia 356 mm) 6. 60 & 65 (Dia 316 & 356mm) 7. 55,60,65,70 (Dia 325 mm)	1. 50,60,65 (Dia 267 mm) & 55,58,60,65,70 (Dia 317 mm) & 55,58,60,65,70,75,80,85,90 (Dia 356 mm) 2. 50,55,60,65 (Dia 317 & 356 mm) & 70,75,80,85,90 (Dia 356 mm) 3. 50,55,60,65,70 (Dia 316) & 50,55,60,65,70 (Dia 325 mm) & 50,55,60,65,70,75,80,85, 90 (356 mm) 4. 50,55,60,65,70 (Dia 317 mm) & 50,52,53,55, 57,58,60,62,63,65,70,75,78,80,82,85,90 (Dia 356 mm) 5. 50,55, 60,65 (Dia 317 & 356mm) & 70,75,80,85,90 (Dia 356 mm) 6. 60 & 65 (Dia 316 & 356mm) 7. 55,60,65,70 (Dia 325 mm) 8. 50,55,60,65 (Dia 316 mm)& 57,60,65,70 (Dia 356 mm)		

AUTHORISED SIGNATORIES,			
 VIJAYANTA AHUJA ASSISTANT GENERAL MANAGER		 DINESH TYAGI DIRECTOR	Page 2 of 3



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C A M A 0121 E05

Date: 19th March 2019

ANNEXURE I (Contd.)

To

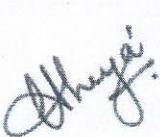

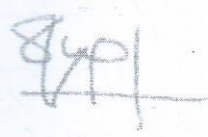
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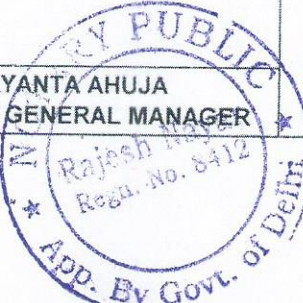
EXTENSION-5

CERTIFICATE FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES

DETAILS OF CHANGE IN TECHNICAL SPECIFICATION						
Changes in Specifications						
Sr. No.	Specifications Clause no.	Description		Parameter (Earlier)	Parameter (New Extension)	
5	5.2	HIPL/CNG-AMAZE-BSIV (OBDII) Dt.16.01.19	CNG Cylinder Valve	Make & Model Name/IdNo	1. M/s. OMB Saleri Spa (Alfa) 2. M/s. Batra Valves (BV/CNG-1/000) 3. M/s. Minda Emer Technologies Ltd (CNG VALVE) 4. M/s. H.M Plastic (HMP) 5. M/s. Tomasetto Achille India Pvt.Ltd(VM-01&VM-05) 6. M/s. Kamnath Engineers (KAMNATH)	1. M/s. OMB Saleri Spa (Alfa) 2. M/s. Batra Valves (BV/CNG-1/000 & Batra) 3. M/s. Minda Emer Technologies Ltd (CNG VALVE) 4. M/s. H.M Plastic (HMP) 5. M/s. Tomasetto Achille India Pvt.Ltd(VM-01&VM-05) 6. M/s. Kamnath Engineers (KAMNATH) 7. M/s. Omax Brass Industries (OBI)
	5.3	Clause no: 3, 4 & 8	Pressure Regulator	Make Model	1. M/s. Tomasetto Achille SpA 1. AT-12	1. M/s. Tomasetto Achille SpA 2. M/s. Highrise Overseas Pvt Ltd. 1. AT-12 2. HR-12
Emission Test Report No		CTOPM 0289 Dt. 09.05.2017 (Everest Kanto Cylinder- HYUNDAI Cat Con - NGK R Spark Plug, AT-12 Regulator, Tomasetto Achille, TA-200/48 Interfacing Unit) CTOPN 0132 Dt. 26.02.2018 (Honda Brio) (Everest Kanto Cylinder- LC Cat Con (CV19925) - NGK R Spark Plug, HR-04 Gas Injector, AT-12 Regulator, Tomasetto Achille, TA-200/48 Interfacing Unit) CTOPN 0184 Dt. 24.03.2018 (Amaze 1.2 S MT (I-VTEC)) (Everest Kanto Cylinder- LC Cat Con - NGK R (BKR6E-11) Spark Plug, HR-04 Gas Injector, AT-12 Regulator, EX HIGHRISE Interfacing Unit) CTOPO 0618 Dt. 27.02.2019 (Amaze 1.2 S MT (I-VTEC)) (Everest Kanto Cylinder- LC Cat Con - NGK R (BKR6E-11) Spark Plug, HR-04 Gas Injector, HR-12 Regulator, EX HIGHRISE Interfacing Unit)				
ICAT Reference No.		2018-1381 (IOCS Ref. : 65457)				

AUTHORISED SIGNATORIES,

 VIJAYANTA AHUJA ASSISTANT GENERAL MANAGER	  DINESH TYAGI DIRECTOR	Page 3 of 3
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 IN THE PUBLIC
 Rajesh
 Regd. No. 5412
 App. By Govt. of Delhi

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Annexure I

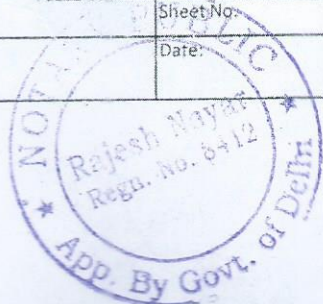
(Page 1/5)

TECHNICAL SPECIFICATION OF CNG CONVERSION KIT

1 Details of Kit Manufacturer / Supplier / Installer				
a.	Name of the Manufacturer	M/s Highrise International Pvt Ltd		
b.	Address	3473, Second Floor, Street No.6, Nicholson Road, Kashmeri Gate, Delhi 110006		
c.	Telephone No. & Fax No.	011-23937005		
d.	Contact person	Mr. Amit Bassi		
2 CNG Kit Identification				
a.	Identification No.	Highrise		
b.	Variants, if any			
3 CNG Cylinder (DOE approved/endorsed)				
a.	Name of manufacturer	M/s Everest Kanto Cylinders Ltd.	M/s Rama Cylinder Limited.	M/s Sahuwala High Pressure Cylinders Pvt Ltd
b.	Model Name & Identification No./Sr. No.	EKC (B2H60C 24658) CML7579906	RAMA	ECON
c.	Type	Steel Cylinder	Steel Cylinder	Steel Cylinder
d.	Working pressure (kgf/cm ²)	204	204	204
e.	Max. test pressure (kgf/cm ²)	340	340	340
f.	Cylinder capacity (water equivalent) and dia in mm.	267mm 50,60,65 (Ltrs.) 317mm 55,58,60,65,70 (Ltrs.) 356mm 55,58,60,65,70,75,80,85,90 (Ltrs.)	317mm 50,55,60,65,70 (Ltrs.) 356mm 50,52,53,55,57,58,60,62,63,65,70,75,78,80,82,85,90 (Ltrs.)	316mm 50,55,60,65,70 (Ltrs.) 325mm 50,55,60,65,70 (Ltrs.) 356mm 50,55,60,65,70,75,80,85,90 (Ltrs.)
g.	Approval reference from DOE	G.3(42)573 Dt: 17/08/2011 G.3(42)312/VII Dt: 21/09/2011 G.3(42)312/VIII Dt: 27/4/2015 G.3(42)312/VII Dt: 16/09/2011 G.3(42)573/I Dt: 24/11/2016	G.3(42)515/VI, Dt: 20/05/2011 G.3(42)553/I, Dt: 11/11/2010	G.3(42)544/III, Dt: 06/05/2011 G.3(42)544/I, Dt: 24/12/2008 MAV/203/11 Dt: 27/06/2011 to 09/07/2011
3 CNG Cylinder (DOE approved/endorsed)				
a.	Name of manufacturer	M/s JAY FE CYLINDERS LTD	LIZER CYLINDERS LIMITED	M/S WORTHINGTON NITIN CYLINDERS LIMITED
b.	Identification No.	JAY FE	LIZER	NITIE
c.	Type	Steel Cylinder	Steel Cylinder	Steel Cylinder
d.	Working pressure (kgf/cm ²)	204	204	204
e.	Max. test pressure (kgf/cm ²)	340	340	340
f.	Cylinder capacity (water equivalent) and dia in mm	317mm 50,55,60,65 (Ltrs.) 356mm 50,55,60,65,70,75,80,85,90 (Ltrs.)	317mm 50,55,60,65 (Ltrs.) 356mm 50,55,60,65,70,75,80,85,90(Ltrs)	316mm 60,65 (Ltrs.) 356mm 60,65 (Ltrs.)
g.	Approval reference from DOE	G.3(42)557/I Dt: 22/12/2009	G3(42)536 Dt: 18/03/2008, G3(42)536/1Dt: 10/12/2008	G.3(42)530/II Dt: 15.10.2010

For HIGHRISE INTERNATIONAL PVT. LTD.

Manu Sign:	Highrise International Pvt Ltd	Document No:	HIPL/CNG-AMAZE-BSIV (OBDII)	Test Agency:	ICAT	Cert No:
Name:	<i>Amit Bassi</i> Director	Sheet No:		Sign:	<i>Prashant Vijay</i>	
Design:	Director	Date:	16-Jan-19	Name:	International Centre for Automotive Technology	
				Design:	Prashant Vijay	
				Date of Issue:	ICAT Certification Business Unit	Page no. 1/7

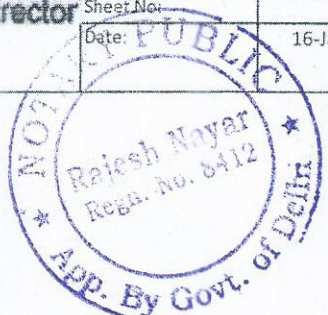


3 CNG Cylinder (DOE approved/endorsed)			
a.	Name of manufacturer	M/s Beijing Tianhai Industry Co. Ltd. 2018-T381	
b.	Identification No.	BTIC	
c.	Type	Steel Cylinder	
d.	Working pressure (kgf/cm ²)	204	
e.	Max. test pressure (kgf/cm ²)	340	
f.	Cylinder capacity (water equivalent)	325mm, 55,60,65,70, (Ltrs.)	
g.	Approval reference from DOE	G.3(4)71/BTIC/APPROVAL/I Dt: 18/12/2006	
3 CNG Cylinder (DOE approved/endorsed)			
a.	Name of manufacturer	M/s. Euro India Cylinders Ltd.	
b.	Identification No.	EICL	
c.	Type	Steel Cylinder	
d.	Working pressure (kgf/cm ²)	204	
e.	Max. test pressure (kgf/cm ²)	340	
f.	Cylinder capacity (water equivalent) and dia in mm	316mm 50,55,60,65 (Ltrs) 356mm 57,60,65,70 (Ltrs)	
g.	Approval reference from DOE	G.3 (42) 572/I DATED 14.10.2011 & G.3 (42) 572/I DATED 14.12.2017	
4 Cylinder Valve(s)(DOE approved/endorsed)			
a.	Name of manufacturer	M/s OMB Saleri SpA ✓	M/s Batra Valves ✓
b.	Model name/Identification No.	Alfa	BV/CNG-1/000 BATRA ✓
c.	Type	OMB Cylinder Valve	CNG ONB Gas Cylinder Valve CNG Manual Cylinder Valve
d.	Working pressure (kgf/cm ²)	204	204 204
e.	Max. test pressure (kgf/cm ²)	350	350 350
f.	Approval reference from DOE	G.3(4) 166 Dated: 03/06/2009 ✓	G.3(40)87 Dt. 23.11.2011 ✓ G.3(40)87 Dt: 19.02.2013 G.3(40)87 Dt:24.10.2017
4 Cylinder Valve(s)(DOE approved/endorsed)			
a.	Name of manufacturer	M/s. Minda Emer Technologies Lt ✓	M/s. H.M.PLASTIC ✓ M/s. Tomasetto Achille India Pvt. ✓
b.	Model name/Identification No.	CNG VALE ✓	HMP ✓ VM-01 & VM-05 ✓
c.	Type	MINDA EMER Cylinder Valve	CNG Manual Cylinder Valve CNG Manual & CNG Automatic Cylinder Valve
d.	Working pressure (kgf/cm ²)	204	204 204
e.	Max. test pressure (kgf/cm ²)	350	350 350
f.	Approval reference from DOE	G.3(40)230 Dt: 01.03.2017 ✓	G.3(40)225 Date: 22/05/2015 G.3(4)151/II Date: 18/07/2013 ✓
4 CNG Valve(s) (DOE approved/endorsed)			
a.	Name of manufacturer	M/s KAMNATH ENGINEERS M/s. Omax Brass Industries	
b.	Model name/Identification No.	KAMNATH OBI	
c.	Type	CNG CYLINDER MANUAL VALVE CNG CYLINDER VALVE WITH RUPTURE DISC HAVING FUSIBAL ALLOY BACKING	
d.	Working pressure (kgf/cm ²)	204 204	
e.	Max. test pressure (kgf/cm ²)	350 350	
f.	Approval reference from DOE	G.3(40)240 Dt: 03/01/2018 ✓ G.3 (40) 247 Dt: 23.10.2018	
5 CNG Solenoid Valve			
a.	Name of manufacturer	In-built with Pressure Regulator	
b.	Model Name/Identification No.		
c.	Type		
d.	Working pressure (kgf/cm ²)		
e.	Max test pressure (kgf/cm ²)		



For HIGHRISE INTERNATIONAL PVT. LTD.

mfg.	Highrise International Pvt Ltd	Document No:	Test Agency:	ICAT	Cert No:
Sign:	<i>[Signature]</i>	HIPL/CNG-AMAZE-BSIV (OBDII)	Sign:	International Centre for Automotive Technology	
Name	Amit Bassi	Sheet No:	Name:		
Desig:	Director	Date:	Desig:		
		16-Jan-19	Date of Issue:	Prashant Vijay	Page no. 2/7
				DGM Certification Business Unit	



6	Petrol Solenoid Valve	
a.	Name of manufacturer	Not Applicable
b.	Model Name/Identification No.	
c.	Type	
d.	Working pressure (kgf/cm ²)	
e.	Max. test pressure (kgf/cm ²)	

7	Refilling valve	
a.	Name of the manufacturer	M/s. KAMNATH ENGINEERS
b.	Model name/Identification No.	HIGHRISE/HR
c.	Type	Nzs
d.	Working pressure (kgf/cm ²)	204
e.	Max. test pressure (kgf/cm ²)	350

8	Pressure Regulator		
a.	Name of manufacturer	M/s Tomasetto Achille Spa	M/s. Highrise Overseas Pvt Ltd.
b.	Model name/Identification No.	AT-12,(TAC-CG0837,Dt-26-07-2016)	HR-12 TAC-CG0379 20.06.2016 (Brands: Gastech Italy, LTA, KIA Italy, MILANO GAZ, GEE GAZ, EUROTECH)
c.	Type	2 Stage Electronic	2 Stage Electronic
d.	Inlet pressure (kgf/cm ²)	204	204
e.	Outlet pressure (kgf/cm ²)	1.5 bar to 2 bar	1.5 bar to 2 bar
f.	No. of stages	2	2

9	CNG Filter	
a.	Name of manufacturer	In-built with Pressure Regulator
b.	Model name/Identification No.	
c.	Type	
d.	Inlet pressure (kgf/cm ²)	
e.	Outlet pressure (kgf/cm ²)	

10	Oil Pump or Lubrication System, if any	
a.	Name of manufacturer	Not Applicable
b.	Type	

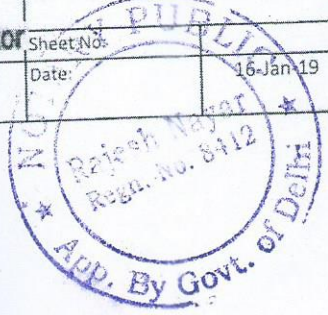
11	High Pressure Tubing		
a.	Name of manufacturer	M/s Highrise International Pvt Ltd	EMER S.P.A
b.	Model name/Identification No.	HIGHRISE KIA-HP-01	CIRC-4043
c.	Type	CNG High Pressure Steel Tube	CNG High Pressure Pipe
d.	Working pressure (kgf/cm ²)/(MPa)	200/20	200/20
e.	Max. test pressure (kgf/cm ²)/(MPa)	700/70	700/70
f.	Outer diameter/Inner Diameter	6 mm O.D.& 4 mm I.D.	6 mm O.D.& 4 mm I.D.
g.	Protection quality (material used)	PVC Sleeve Coating	PVC Sleeve Coating
h.	Approval reference from DOE	CT0BM5009, Dt:- 18/01/17	CT1LL0124, Dt:- 03/02/16

11	High Pressure Tubing	
a.	Name of manufacturer	M/s AGP Engineering Products
b.	Model name/Identification No.	AGP-HPP-CNG-01
c.	Type	CNG High Pressure Pipe
d.	Working pressure (kgf/cm ²)/(MPa)	200/20
e.	Max. test pressure (kgf/cm ²)/(MPa)	700/70
f.	Outer diameter/Inner Diameter	6 mm O.D.& 4 mm I.D.
g.	Protection quality (material used)	PVC Sleeve Coating
h.	Approval reference from DOE	CT0BM5138, dtd 01/05/2017



For HIGHRISE INTERNATIONAL PVT. LTD.

mfg.	Highrise International Pvt Ltd	Document No:	HIPL/CNG-AMAZE-BSIV (OBDII)	Test Agency:	International Centre for Automotive Technology	Cert No:	
Sign:	 Director	Sheet No:		Name:	Prashant Vijay	Page no. 3/7	
Name:		Amit Bassi	Date:	16-Jan-19	Desig:		DGM Certification Business Unit
Desig:		Director					



12	Low Pressure Tubing		
a.	Name of manufacturer	M/S SUPERSEAL FLEXIBLE HOSE LTD	
b.	Model name/Identification No.	SuperSeal	
c.	Type	R6	
d.	Working pressure (kgf/cm ²)	2.04	
e.	Max. test pressure (kgf/cm ²)	48.95	
f.	Outer diameter/Inner Diameter	19.84mm O.D & 12.7mm I.D, 14.29mm O.D & 7.94mm I.D and 23.81mm O.D and 15.88mm I.D	
g.	Protection quality (material used)	Reinforced rubber	
h.	Approval reference from DOE	SHL/239/2014-15/9450/1501.Dt.- 05/03/2015	
13	Gas-Injector		
a.	Name of manufacturer	M/s JIAXING E-XON POWER TECHNOLOGY CO. LTD.	
b.	Model name/Identification No	HIGHRISE/ HR 04	
c.	Type & drawing	injector	
d.	Venturi Size (mm)	2	
e.	Approval reference from DOE	CT0BN5027, dtd 05/02/2018	
14	ON/OFF Switch		
a.	Name of manufacturer	M/s. Autronic S.r.l.	M/s JIAXING E-XON POWER TECHNOLOGY CO. LTD.
b.	Model name/Identification No	Tomasetto Achille,TA-200/48 OBD FAST	EX-HIGHRISE
c.	Type	2 position	2 position
15	Ignition System & Wiring Harness (for CNG system) (Ref. Clause A11 of Table 2 of AIS 007)		
a.	Name of manufacturer	M/s. Autronic S.r.l.	M/s JIAXING E-XON POWER TECHNOLOGY CO. LTD.
b.	Type of Ignition System	Electricronic System	Electricronic System
c.	Spark plug gap, mm	NGKR LKR6D 10E Gap-1.1	NGKR BKR6E-11 Gap-1.1
d.	Electrical circuit diagram /Detail layout	Attached Report no. CT0GL0405, Dt:- 27/12/2016	CT0GN0014 Dtd. 25.01.2018
16	Interfacing Unit (for closed loop engines)		
a.	Name of manufacturer	M/s. Autronic S.r.l.	M/s JIAXING E-XON POWER TECHNOLOGY CO. LTD.
b.	Model name/Identification No.	Tomasetto Achille, TA-200 /48 OBD FAST	EX-HIGHRISE
c.	Type	Electronic Feed Back System	Electronic Feed Back System
17	Ignition Timing Advancer		
a.	Name of manufacturer	Not Applicable	
b.	Type		
c.	Timing on CNG mode		
d.	Timing on baseline fuel.		
18	Brief Description of System Including Dimensional Layout for Cylinder and other kit components installation, ventilation details etc.	The CNG kit is equipped with 2 natural stages. The 1st stage reduced the pressure to 4 bar in the 2nd stage, it is further reduced to 1.5 - 2.0 bar according to vehicle requirement. The electronic solenoid valve trips & shuts off the gas if the engine is switched off.	
19	Catalytic Converter Make & Model	LC (OE FITTED)	
20	Refilling valve interlocking switch		
a.	Name of manufacturer	TAIPL / HIPL	
b.	Identification No.	N.A	
c.	Type	12 V DC Type	
21	Current limiting Device (Fuse)		
a.	Name of manufacturer	Tomasetto Achille India Pvt Ltd	Navshakti Gas Energy System Pvt Ltd
b.	Identification No.	TAIPL_Fuse_5A/TAIPL_Fuse_7.5A	NGES - FUSE - 5/NGES - FUSE - 7.5
c.	Voltage/current rating	12 V/ 7.5 Amp	12 V/ 7.5 Amp
d.	Type	Socket & Plug.	Socket & Plug.
e.	Approval reference from DOE	CT0GM0236, Dt:- 12/04/2017	CT0CF1081, Dt:- 07/07/2010



For HIGHRISE INTERNATIONAL PVT. LTD.

fig:	Highrise International Pvt Ltd	Document No:	HIPL/CNG-AMAZE-BSIV(OBDII)	Test Agency:	ICAT	Cert No:	
sign:		Sheet No:		Sign:	International Centre for Automotive Technology		
name:	Amit Bassi	Date:	16-Jan-19	Name:	Prashant Vijay		
esig:	Director	Date of Issue:	DGM Certification Business Unit	Desig:		Page no.	



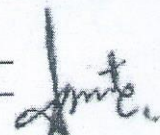
ADDL CHIEF ENGINEER
INDIA
E.4 DEC 2019

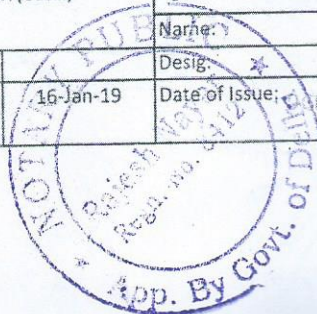
TECHNICAL SPECIFICATIONS OF VEHICLES

Manufacturer's Name and Address	
HONDA CARS INDIA LTD., Plot-A1,40/41, Surajpur Kasna Road, Greater Noida, Uttar Pradesh 201306	
Vehicle Data	
Model	AMAZE 1.2 S MT (I-VTEC)
Type	Passenger Car
Year and Month of Manufacture	09/2015
Engine No.	L12B32524637
Chassis No.	MAKDF153FFN116799
Engine	
Type	SO HC i-vtec Petrol
Bore x Stroke, mm	75 x 90
No. of Cylinders	4
Displacement	1198cc
Compression Ratio	9.0:1
Max Engine Output	65 kw @ 6000 RPM
Max Torque	109 NM @ 4500 RPM
Air Cleaner	Dry Pallet type
Oil Filter	Full Flow:Cartridge type with relief valve
Fuel Filter	Cartridge type
Capacity of Cooling System	5 Lt.
Oil Sump Capacity	4.5 Lt
Weight of Engine (Complete)	124 KG
Radiator Frontal Area (Core Area)	350mmx370mm = 129500mm ²
Clutch	
Type	Dry single manual type
Outside Diameter	190 mm
Gear Box	
Model	Honda
Type	Syncromesh MT
No. of Gears	5 Forward & 1 Reverse
Gear Ratio	
1 st	3.142
2 nd	1.75
3 rd	1.241
4 th	0.969
5 th	0.805
Reverse	3.272:1
Front Axle	MacPherson Strut (MS)
Rear Axle	3 Link rigid axel with isolated trialling arm
Ratio	4.111
Steering	
Steering Wheel Diameter	375 mm
Ratio	Rack & Pinion type with power assist and Ratio 16:0



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Name	Amit Bassi	Sheet No:		Name:	Prashant Vijay		
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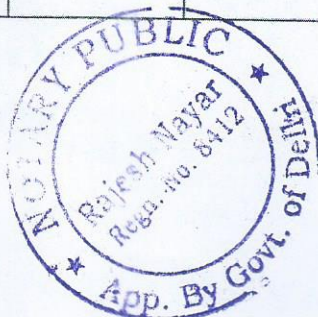


Frame	
Long Member Size, mm	2355
Number of Cross Members	2 nos.
Suspension	
Spring	Mac Pherson Strut, coil springs with stabilizer bar
Anti-Roll Bar	Torsion cylindrical double acting type
Shock Absorber	
Brake	
Service Brake	Hydraulic cylindrical double acting type
Front	Booster assisted dual circuit
Rear	Disc
Total Braking Area	Self adjusting Drum
Parking Brake	Area of drum
Wheels and Tyres	rear
	175/65 R14
Electrical System	
System Voltage	12 V
Battery	12 V
Alternator (Max. Output)	13.5 V
Type	DC
Wiper Motor	SRF Nippon Denso make 12V 180 Kgf-cm
Fuel Tank	35 Ltr.
Dimensions	
Wheel Base, mm	2345
Overall Width, mm	1680
Overall Length, mm	3610
Front Track, mm	1295
Rear Track, mm	1290
Min. Ground Clearance, mm	172
Cargo Box Dimensions	Not available
Load Body Platform Area	3495 mm x 1475 mm = 5382000mm ²
Weights	
Maximum GVW	1510 kg
Maximum Permissible FAW	710 kg
Maximum Permissible RAW	800 kg
KERB weight with 90% fuel (with	1100 kg (Including CNG Kit)
Maximum Gradeability in 1 st Gear	7 Degree
Seating Capacity	5 Persons



For HIGHRISE INTERNATIONAL PVT. LTD.

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Name: Amit Bassi	Director	Name: Prashant Vijay	
Desig: Director	Sheet No:	Desig: DGM Certification Business Unit	Page no. 7/7
	Date: 16-Jan-19	Date of Issue:	



NOTARY PUBLIC
Rajesh Mayar
Reg. No. 8412
App. By Govt. of Delhi

4 DEC 2019