

INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY

[A Division of NATRiP Implementation Society (NATIS), Govt. of India]






C T O V M 1 8 5 7

Date: 07/11/2017

PERFORMANCE TEST (CMVR) REPORT

1	Customer	M/s Godawari Techno Solutions Pvt. Ltd.
2	Customer Address	391, Surendra nagar, Jhalra Road Kunchaman City, Nagaur Rajasthan 341 508
3	Tech. Specs & Date Docket ID	G-One/TA/01 Dated : 14/09/2017 CVTNBGOTSMKCSC54348
4	Vehicle Tested a) Model b) Type c) Category d) Manufacturer	G-ONE Special Purpose Battery Operated Vehicle E-Rickshaw M/s Godawari Techno Solutions Pvt. Ltd.
5	Test Requirement	Compliance to the requirements of CMVR -1989 as amended up to date as notified in G.S.R 709(E) Dt. 08/10/2014 and SO 2590(E) Dt. 08/10/2014
6	Test Procedure	As per respective standards.
7	Place of Issue	Site - 2
8	Total No. of pages	10 + 03 Drawings

Remarks: Refer page 10 of 10 for Disclaimer.

Prepared By		Checked By	Department Head		Format No.: ICAT/VEL/F/22/03
					
Abhishek Kumar		Keshav Kr. Tripathi	U. K. Bhat		 Page 01 of 10 + 03 Dwg.

C T O V M 1857

Date: 07/11/2017

PERFORMANCE TEST (CMVR) REPORT
G-ONE

Motor No. 0001	Manufacturer	M/s Godawari Techno Solutions Pvt. Ltd.
Chassis No. MD9GER11HAR204001	Fuel	Battery Operated
Test Site Site - 2	Vehicle specification	G-One/TA/01
	Reference No. & Date:	Dated : 14/09/2017

Installation Requirements of Lighting & Light -Signaling Devices (AIS-009 (Rev. 1.0) 2011 Amend. 1)

Clause No.	PARAMETERS		TEST RESULTS			
	General Requirements	Requirement	Observed	Observed Marking(s)	Colour	
5.0	Driving Beam Headlamp (Colour: White)	One	One	Rajulex JBI-104 RG-2243	White	
	Passing Beam Headlamp (Colour: White)	One	One		White	
	Front Position Lamp (Colour: White / Amber)	Two	Two	Rajulex RG- 2231 RG- 2229 RG- 2228 RG- 2227	Amber	
	Front Direction Indicator Lamp (Colour: Amber)	Two	Two	Rajulex RG- 2231 RG- 2229 RG- 2228 RG- 2227	Amber	
	Stop Lamp (Colour: Red)	Two	Two	Rajulex JBI-102 R RG-2230	Red	
	Rear Position Lamp (Colour: Red)	Two	Two	Rajulex JBI-102 R RG-2230	Red	
	Rear Direction Indicator Lamp (Colour: Amber)	Two	Two	Rajulex JBI-102 R RG-2230	Amber	
	Reverse Lamp (Colour: White)	One/Two	Two	Rajulex JBI-102 R RG-2230	White	
	Rear Retro Reflecting Device (Colour: Red)	Two	Two	Rajulex JBI-102 R RG-2230	Red	
	Rear Registration Mark (Illumination) Lamp (Colour: White)	One	One	K-Lite M-404 AG0149	White	
	Independent, Grouped, Combined or Reciprocally Incorporated Lamps					
	LAMPS			DETAILS		
Head lamp Assembly			Passing and Driving Beam are incorporated.			
Front Combination Lamp Assembly			FPL and FDI are incorporated.			
Rear Combination Lamp Assembly			RPL and SL are incorporated. RPL/SL, RDI, RL and RR are grouped.			
Rear Registration Mark (Illumination) Lamp			Independent			
Clause No. 5.3, 5.5.2.1, 5.5.2.2, 5.6.1, 5.6.2.1, 5.8, 5.9, 5.10 & 5.12.1					Complies	
The headlamp may optionally automatically be on when the motor is running. If installed, the daytime running lamp shall automatically be ON when the engine is running (Cl. No. 5.11.1)					Not Mandatory Not Provided	

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Clause No.	PARAMETERS	TEST RESULTS			
		HEIGHT(mm)		DISTANCE FROM EXTREME OUTER EDGE OF VEHICLE (mm)	DISTANCE BETWEEN IDENTICAL OPTICAL DEVICES (mm)
		MIN.	MAX.		
	Driving Beam Headlamp	805	965	--	NA
	Passing Beam Headlamp	805	965	--	NA
	Front Position Lamp	585	680	120	540
	Front Direction Indicator Lamp	585	680	120	540
	Stop Lamp	485	552	45	690
	Rear Position Lamp	485	552	45	690
	Rear Direction Indicator Lamp	630	700	45	690
	Reverse Lamp	552	630	90	690
	Rear Retro Reflecting Device	552	630	45	775

INDIVIDUAL SPECIFICATIONS

Driving Beam Head Lamp

6.0





S. No.	Details of Clause No.	Remarks
1	6.1.1.1, 6.1.3, 6.1.3.1.2, 6.1.3.2 & 6.1.7 of AIS-009 (REV-01):2011	Complies
2	Orientation: Forwards. The lamp(s) may move with the steering angle. May not be "combined" with any other lamp. (Cl. No. 6.1.5 & 6.1.6)	Complies (moving)
3	Tell-tale: Circuit-closed tell-tale mandatory. Non flashing Blue signal lamp. (Cl. No. 6.1.8)	Complies (provided)

Passing Beam Head Lamp

1	6.2.3.1.2, 6.2.3.3, & 6.2.7 of AIS-009 (REV-01):2011	Complies
2	Orientation: Forwards. The lamp(s) may move in line with the steering angle. (Cl. No. 6.2.5.1)	Complies (moving)
3	The vertical inclination of the passing beam headlamp shall remain between - 0.5 and - 2.5 per cent. (CL. No. 6.2.5.2)	Complies

DIRECTION INDICATOR LAMP

1	Length: The forward distance between the centre reference of the rear indicators and the transverse plane which constitutes the rearmost limit of the vehicle's over-all length shall not exceed 300 mm. (Cl. No. 6.3.3.2 & 6.3.3.3)	40 mm Complies
2	6.3.8, 6.3.8.1 & 6.3.8.2 of AIS-009 (REV-01):2001	Complies

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	Reference No. & Date:	Dated : 14/09/2017

Installation Requirements of Lighting & Light –Signaling Devices (AIS-009 (Rev. 1.0) 2011 Amend. 1)

Clause No.	PARAMETERS		TEST RESULTS
6.0	DIRECTION INDICATOR LAMP		
	S.No.	Details of Clause No.	Remarks.
	3	"Circuit-closed" tell-tale: Mandatory. Shall be optical. It shall be (a) flashing green lamp(s), which, in the event of defective operation of any of the direction-indicators, is extinguished; remains alight without flashing, or show a marked change of frequency. An additional auditory circuit closed tell-tale may also be fitted. (Cl. No. 6.3.9)	Complies
	4	Other Requirements: In the case of all vehicles the direction indicator lamps of which are supplied with direct current, the light flashing frequency shall be 90 ± 30 times per minute. (Cl. No. 6.3.10.1)	84 Flashes/minute Complies
	5	In the event of failure, other than a short circuit, of one direction indicator lamp, the other(s) direction-indicator lamp(s) indicating the same direction shall continue to flash or remain alight, but the frequency in this condition may be different from that prescribed. (Cl. No. 6.3.10.4)	Complies (increasing)
	STOP LAMP		
	1	6.4.5 & 6.4.6 of AIS-009 (REV-01):2011	Complies
	2	"Circuit-closed" tell-tale: Tell-tale optional; where fitted, this tell-tale shall be an operating tell-tale consisting of a non-flashing warning light which comes on in the event of the malfunctioning of the stop lamps. (Cl. No. 6.4.7)	Not Mandatory Not Provided
	Rear Registration Mark (Illumination) Lamp		
	1	6.5.2, 6.5.3, 6.5.3.1, 6.5.3.2, 6.5.3.3, 6.5.4, 6.5.5 & 6.5.6 of AIS-009 (REV-01):2011	Complies
	2	Tell Tale: Optional Its function shall be performed by the tell-tale prescribed for the position lamp.	Complies (Tell tale same as prescribed for 'Front Position Lamp')
	Front Position Lamp		
	1	6.6.3.1.1 of AIS-009 (REV-01):2011	Complies
	2	Orientation: Forwards. The lamp(s) may move in line with the steering angle. (Cl. No. 6.6.5)	Complies (stationary)
	3	"Circuit-closed" tell-tale: Mandatory. Non-flashing green signal lamp. This tell-tale shall not be required if the instrument illumination lighting can be switched on or off only simultaneously with the position lamp(s). (Cl. No. 6.6.6)	Complies (Instrument illumination)
Rear Position Lamp			
1	6.7.5 of AIS-009 (REV-01):2011	Complies	
2	Circuit-closed- tell-tale: Optional: Its function shall be performed by the device prescribed for the front position lamp. (Cl. No. 6.7.6)	Complies (Tell tale same as prescribed for 'Front Position Lamp')	

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Checked By

Department Head






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Keshav Kr. Tripathi

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Test Site Site - 2	Vehicle specification	G-One/TA/01
	Reference No. & Date:	Dated : 14/09/2017





Installation Requirements of Lighting & Light –Signaling Devices (AIS-009 (Rev. 1.0) 2011 Amend. 1)

Clause No.	PARAMETERS		TEST RESULTS
	S. No.	Details of Clause No.	Remarks
6.0	Rear Retro Reflecting Device		
	1	6.8.1, 6.8.2, 6.8.5 & 6.8.6 of AIS-009 (REV-01):2011	Complies
	Reversing Lamp		
	1	6.16.1, 6.16.2, 6.16.3.1, 6.16.3.2, 6.16.3.3, 6.16.5, 6.16.6 & 6.16.7 of AIS-009 (REV-01):2011	Complies
	2	Circuit-closed- tell-tale: Optional	Provided
	Vehicle Hazard Warning Signal		
	1	6.9.1, 6.9.2 & 6.9.3 of AIS-009 (REV-01):2011	Not Mandatory Not Provided
	2	"Circuit-closed" tell-tale: Mandatory. Flashing red signal lamp or, in the case of separate tell-tales, the simultaneous operation of the tell-tale prescribed in 6.3.9 of AIS-009 (REV-01):2011	
	3	Other requirements: Light flashing 90 ± 30 times per minute. Operation of the lamp-signal control shall be followed within not more than one second by the appearance of the light and within not more than one-and-one-half seconds by the first extinction of the light.	

Note:- FPL - Front Position Lamp, FDI - Front Direction Indicator, RPL - Rear Position Lamp, RDI - Rear Direction Indicator, SL - Stop Lamp, RL - Reversing Lamp, RR - Retro Reflector, RCLA - Rear Combination Lamp Assembly

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Test Site Site - 2	Vehicle specification	G-One/TA/01
	Reference No. & Date:	Dated : 14/09/2017

Cluses	RVM Installations as per AIS-002 (Part 2) (Rev.1) : 2011	Remarks
16.1	General Requirement	
16.1.1	The rear-view mirrors installed on the vehicle shall be of "Class L".	Complies
16.1.2	Rear-view mirrors shall be fixed in such a way that they remain steady under normal conditions of use.	Complies
16.2	Number	
16.2.1	All L category vehicles without body work partly or wholly encloses the driver, with a maximum design speed not exceeding 50 km/h shall be fitted with at least one rear-view mirror. This rear-view mirror shall be on the right side of the vehicle.	Complies
16.3	Position Requirement	
16.3.1	Rear-view mirrors shall be mounted or adjusted in such a way that the distance of the centre of the reflective surface, as measured in a horizontal plane, is at least 280 mm outward from the longitudinal vertical plane passing through the centre of the steering head of the vehicle. Before the measurement, the handlebar shall be placed in the straight ahead position and the mirror(s) shall be adjusted to its (their) normal	Complies (Left to center 390 mm and Right to center 390 mm)
16.4	Adjustment of RVM for field of vision	
16.4.1	Rear-view mirror(s) shall be such that the driver is able to adjust it (them) in the normal driving position.	Complies
Rear View Mirror assemblies, Details -		
Make	:	M/s Fiem Pvt. Ltd.
Observed Marking(s)	:	FM-55600
Class	:	L

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**PERFORMANCE TEST (CMVR) REPORT
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Test Site Site - 2	Vehicle specification G-One/TA/01
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Rule No.	PARAMETER		TEST RESULTS
	Standard	Requirement	Measured Value
119	IS 15796:2008 (Clause No. 6)	83 dB (A) to 112 dB (A)	95.7 dB(A) @ 13.26 V
	No multi-toned horn giving a succession of different notes or with any other sound-producing device producing an unduly harsh, shrill, loud or alarming noise shall be installed on the vehicle.		Complies

Horn
Make: M/s Saanwra Pvt. Ltd.
Horn ID (observed): CG0082 S-70
Operating Voltage: 12V

Test conducted for introduction of new model.
First time type approval.

Format No.: ICAT/VEL/F/68/00

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	Reference No. & Date:	Dated : 14/09/2017

Clauses	Hand Hold Installation as per AIS-046 : 2005	Remarks
4.1	The hand hold holds shall be in the <i>Grab-handle, Strap or Hand-rail form</i> depending on its intended purpose.	Grab-handle
4.1.1	The hand holds shall be fitted for all the occupants sitting outboard except driver.	Complies
4.1.2	The fitment shall be such that it is convenient for the passenger (s) to make use of it in his normal sitting / standing position and during ingress & egress from the vehicle.	Complies
4.1.3	The hand holds shall be a section enabling passengers to grasp them easily and firmly.	Complies
4.1.4	The hand holds shall be such that it can be easily identifiable & having a slip free surface.	Complies
4.1.5	The hand holds shall be so designed and installed as to present no risk of injury to passengers.	Complies
4.2	Dimensional Requirements	
4.2.1 (a.)	The length of the hand hold (L) shall be at least 100 mm to accommodate a hand of passenger.	Complies (106.24 mm)
4.2.1 (b.)	The clearance between hand-hold(s) (C) and the adjacent part of vehicle body or wall shall be of at least 25 mm.	Complies (152.0 mm)
4.2.1 (c)	The cross sectional area measured at the middle of the length of the hand holds other than strap shall be between 130mm ² and 1500 mm ² , enabling passenger to grasp them easily and firmly.	Complies
4.2.1 (d)	In case of straps, width measured at the middle of the length of the strap shall be 40±5 mm.	Not Applicable
4.3	Strength Requirement	
4.3.1	The grab-handle for individual passenger shall be designed in such a way that they shall be able to withstand, without snapping under installed condition, a traction force of 70 kgf, applied statically in the direction of application to the center surface of the grab handle. The compliance of the strength of the grab handle is to be demonstrated, either when installed on the vehicle or on separately on the test fixture, simulating vehicle installation condition.	Complies

Hand Hold Details -

Make	:	M/s Autowire Pvt. Ltd.
Identification Number	:	NON CONSPICUOUS

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Photographs



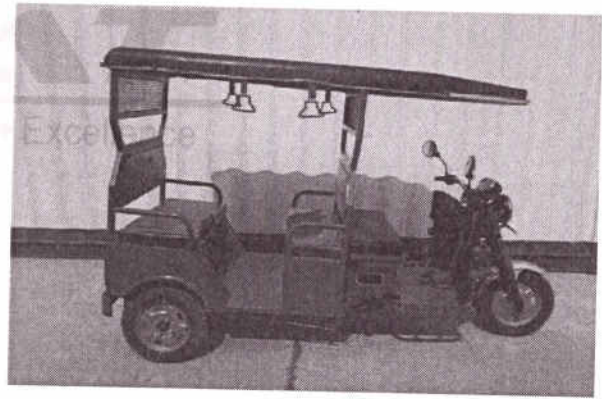
Front View







Rear View



Left Hand View



Right Hand View

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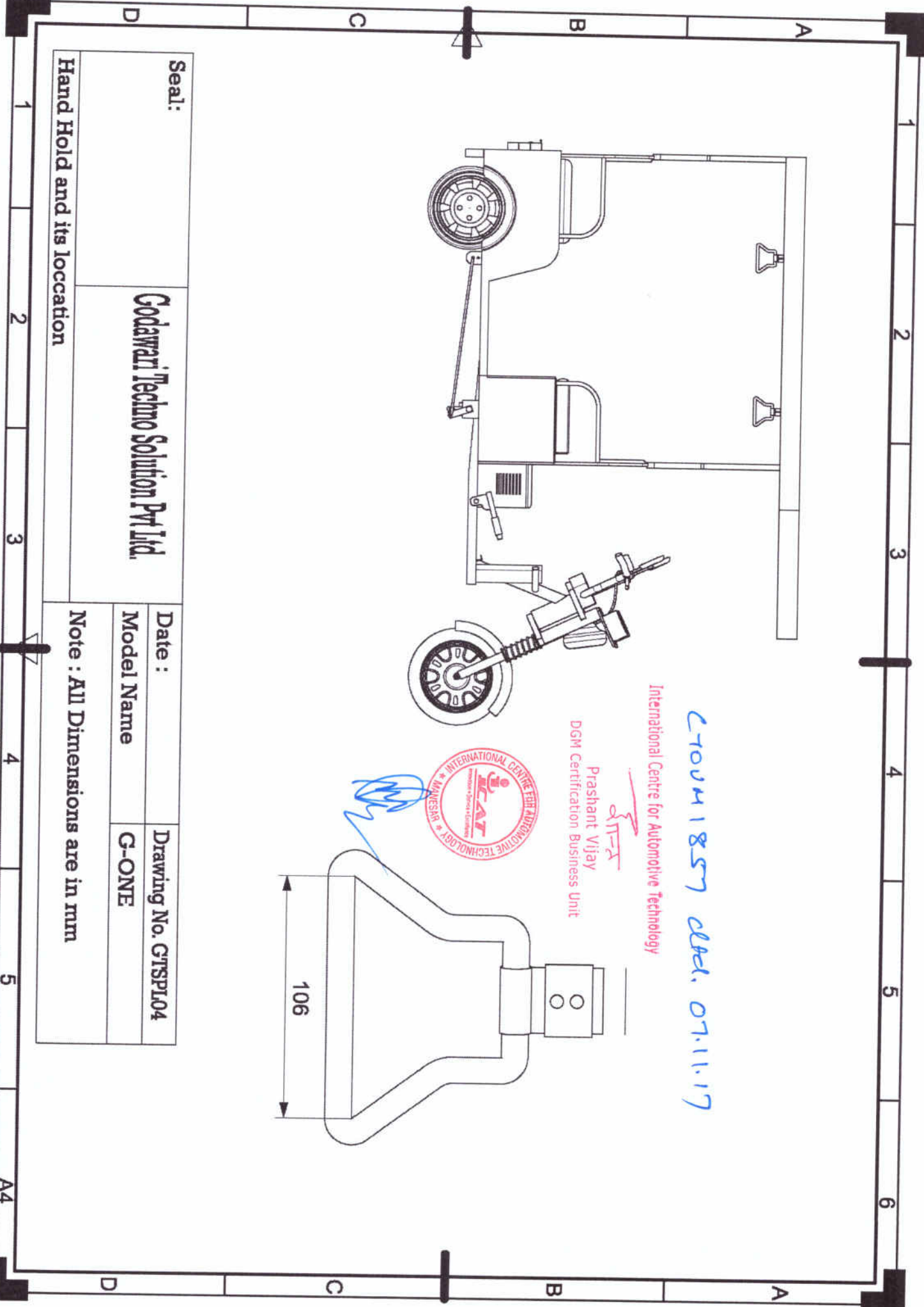
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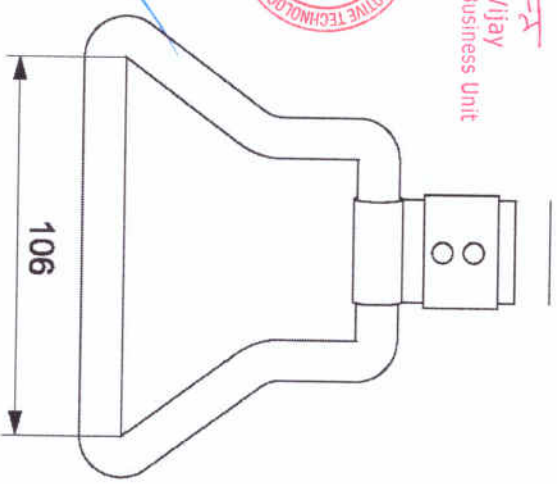
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International Centre for Automotive Technology

Prashant Vijay
DGM Certification Business Unit



Seal:

Godawari Techno Solution Pvt Ltd.

Date :

Drawing No. GTSPI04

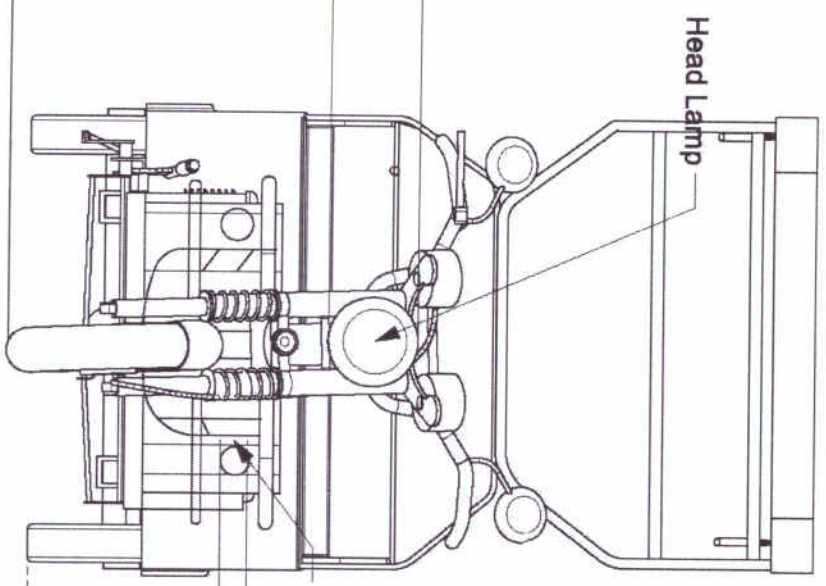
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G-ONE

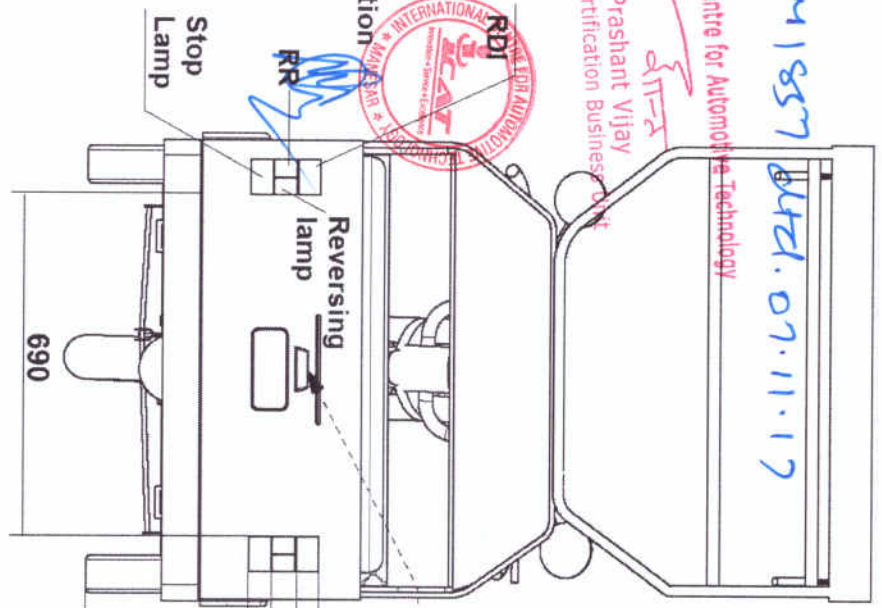
Hand Hold and its location

Note : All Dimensions are in mm

1 2 3 4 5 6 A4



Front Position
Lamp & Direction
Indicator



Stop
Lamp

Reversing
lamp

Registration Plate Lamp

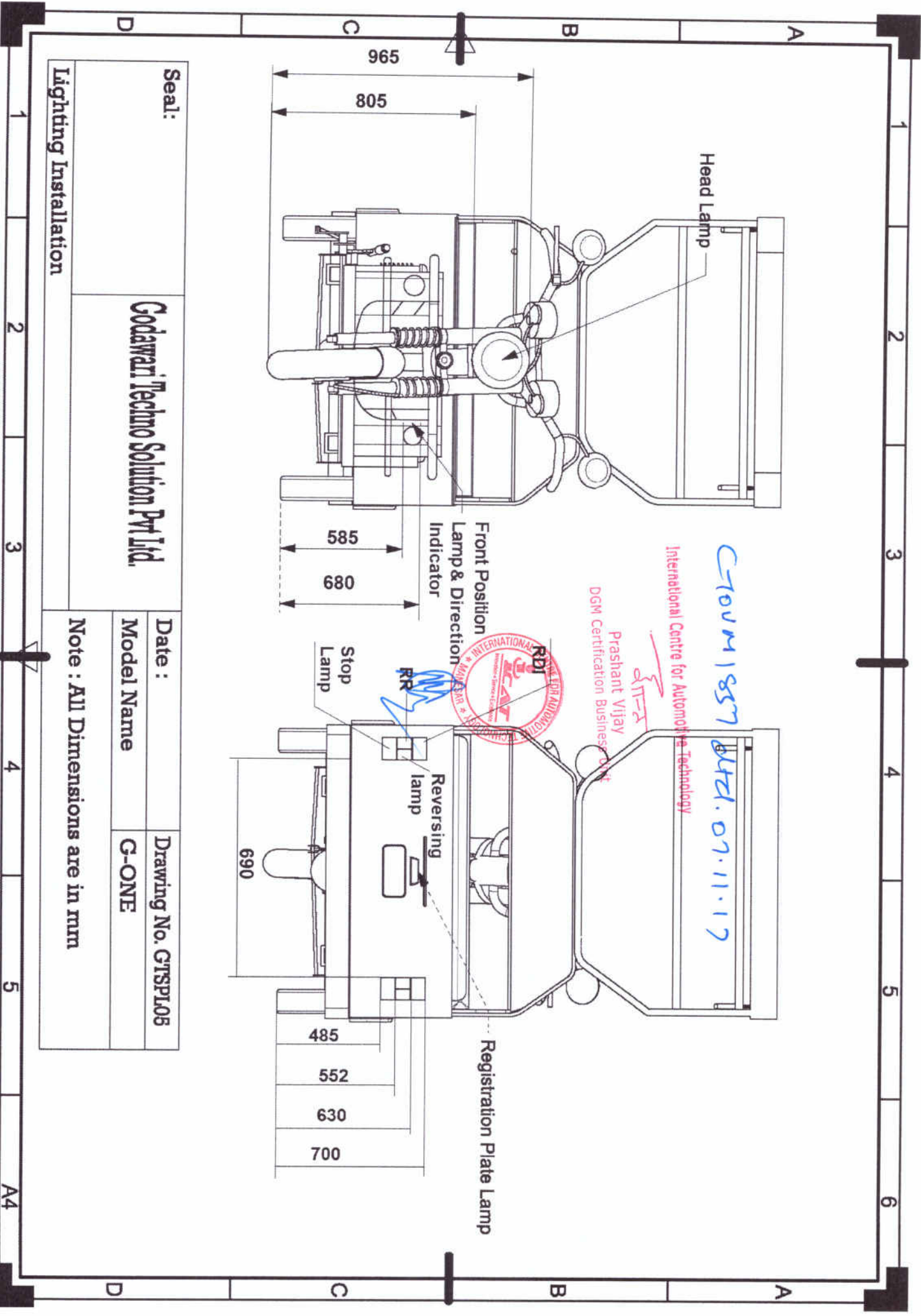
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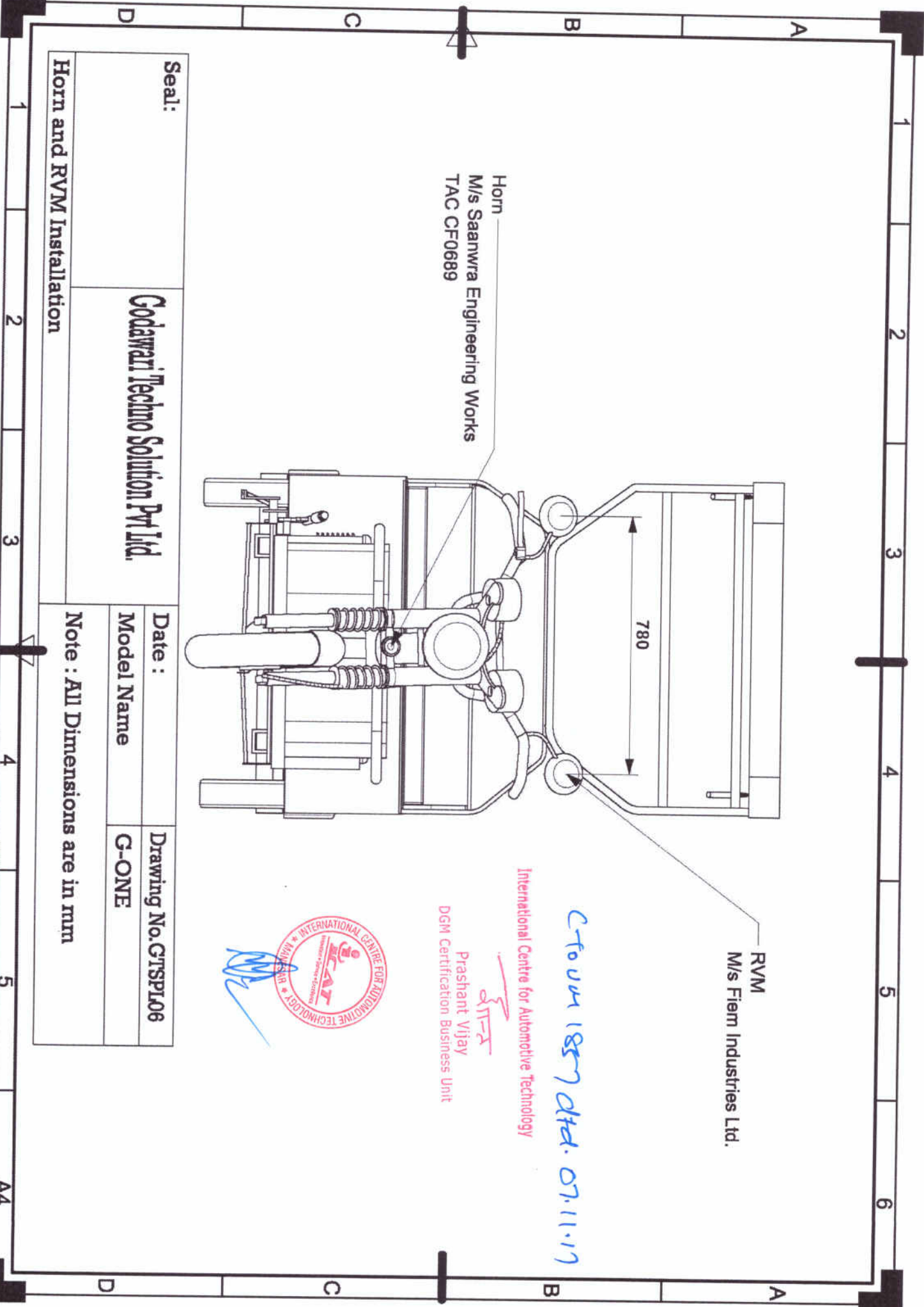


Seal:
Godawari Techno Solution Pvt Ltd.
 Lighting Installation

Date :	Drawing No. GTSP105
Model Name	G-ONE

Note : All Dimensions are in mm





Horn
 M/s Saanwra Engineering Works
 TAC CF0689

RVM
 M/s Fiem Industries Ltd.

CF004 1857 dtd. 07.11.17

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Seal:		Godawari Techno Solution Pvt Ltd.	
Horn and RVM Installation			
Date :	Drawing No. GTSPL06	Note : All Dimensions are in mm	
Model Name	G-ONE		

