



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

[National Automotive Board (NAB)]

C A T B 0658

Date : 12th July 2024

CERTIFICATE

FOR

COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES

Cert	Table 7, 11 & 13	Dwg	Total
04	13	04	21Pgs

1. In order to establish compliance to the provisions of CMVR, 1989, applicable as on date, documental verification / necessary testing was carried out, on the following base model & its variant submitted by the vehicle manufacturer as referred below:

Reference Document	Vehicle Manufacturer			
CATB0145 Dt.13.02.2024	M/s METAL PRESSING & ENGG WORKS Plot No. 5-1/H, Northern India Complex, 20/3, Mathura Road, Faridabad, Haryana, 121006 Plant: Faridabad, Haryana			
Type & Category	Motor Manufacturer	Net Power	Max. 30 Min. Power	Max. 30 Min. Speed
Special Purpose Battery Operated Vehicle & E-Cart	M/s Rotomotive Powerdrives India Ltd.	1.90kW @ 2400 rpm	1 kW @2300rpm	23.07 kmph
Base Model Name		Seating Capacity (incl driver)	GVW (kg)	Load Carrying Capacity (Kg)
PEHALWAN e-Cart		1	783	310
Variant(s)		Refer Annexure V		
Battery (Make/Capacity/Voltage/Id/ Type)		Refer Annexure III		
Technical specifications of the base model & its variant submitted by vehicle manufacturer .				

- 1a. A. Brief technical specifications reference :-

Table 7	MPEW-02 dt.15.03.2024
Table 11	MPEW-02 dt.15.03.2024
Table 13	MPEW-02 dt.15.03.2024

- B. Detail specifications reference :-

Table 1B	MPEW-02 dt.15.03.2024
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2. It is certified that the above base model & its variant comply with the provisions of the CMVR, 1989, as amended up-to-date, including following requirements, (as detailed at ANNEXURE - I, IA & IB):

Description	Notification	Date	Effective From	Applicable CMVR
E - Rickshaw/E-Cart	GSR 709(E)	08.10.2014	08.10.2014	ANNEXURE - I, IA, IB

Refer ANNEXURE -II for other Notifications

3. This Certificate is issued as per CMV Rule 126, to establish compliance with the Central Motor Vehicles Rules, 1989, and shall not be construed as a certificate of compliance to any rules other than those listed in ANNEXURE - I, IA, IB & II. Compliance to these rules has been verified based on the use of specific components / parts / assemblies etc. details of which are given in the detailed specifications duly endorsed by ICAT as mentioned at Para. 1a above. It is the vehicle manufacturer's responsibility to ensure fitment of same components / parts / assemblies etc. before submission of the vehicle for registration.

Please turn over for Disclaimer

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ANNEXURE - I

Rule No.	Sub Rule(s)	Compliance Verified For		Standard	
93	(1)(A), (1)(B), (2)	Motor vehicle width, length and height		-	
94	(1), (2), (3)	Condition of tyres		-	
95	(1), (2),(3), (4), (5) & (6)	Size & ply rating of tyres		IS 15627:2005 & AIS-050-2004	
		Front/ Rear	Make		
96	(1), (2), (3), (4)(i), (7)(b)	Refer Annexure - IV		IS 14664:1999	
99	-	Brakes		IS 14664:1999	
99	-	Forward and backward motion		-	
100	(1), (2), (3-A) & (3)(c)	Safety glass		-	
101	(1)	Windscreen Wiper		-	
102	(1), (2)	Signaling devices, direction indicators and stop lights		-	
103	(1), (2)	Position of the indicator		-	
104	(1)(v),(4)	Fitment of reflectors & reflective tapes		AIS-057-2005 & AIS-090-2005	
105	(1)(b), (3), (4), (5), (7)	Lamps		-	
106	(1)	Deflection of lights		-	
108	(1)	Use of red or white lights		-	
109	-	Parking lights		-	
110	-	Lamps for three wheelers		-	
111	-	Prohibition of spotlights etc.		-	
119	(1) & (2)	Horns	Installation	IS 15796:2008	
			Limit :		83 dB(A) to 112 dB(A)
			Observed :		97.9 dB(A)
			Performance	IS 1884:1993	
122	(1) & (2)	Embossment of chassis number & motor number & month of manufacture (Ref: Table 11 of the Technical Specifications)		AIS-065-2005	
124	-	Safety standards of components as applicable		Refer ANNEXURE - IA & IB	
125	(2)(a)	Rear View Mirror	Specifications	AIS-001 (Part-2)Rev.1:2011	
			Installation	AIS-002 (Part-2)Rev.1:2011	

ICAT Ref No.	2023-2319,(IOCS No.-174458)		
Power Test Report No.	ARAI/AED/20192020/3000009876/CT/2215 Dt.19.03.2020 &CT0PS 1100 Dt.22.12.2023		
Horn Inst. Report No.	CT0VT 0066 Dt.20.01.2024		
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ANNEXURE - IA




Rule 124 (1) Table B	Parts / Components / Assemblies	Standard	Applicable
1	Automobiles lamps	AIS-034-2004	Yes
2(e)'(f)	Wheel rims	IS 16192:(Part 1 & 2)2014	Yes
3(a)	Installation requirement for lighting and light signalling devices	AIS-009-2001	Yes
3(b)	Performance requirements for lighting and light-signalling devices	AIS:010/2004 AIS:012/2004	Yes
4	Constructional & Functional Safety of battery operated vehicle	AIS-038-2003	Yes
5	Measurement of Net Power & max. 30. min. Power & Speed for battery operated vehicles	AIS-041-2003	Yes
6	Traction batteries used in battery operated vehicles	AIS-048-2009	Yes
7	Requirements of Handholds	AIS-046-2005	No

ANNEXURE - IB

CMV Rule	Compliance Verified For		Standard	Effective Date
2 (cb)	Definitions – category of vehicle	E-cart	IS14272:2011	03.06.2019
124(4)	The procedure for Type Approval and establishing Conformity of Production for components	Tyres / Horn	AIS-037-2004	01.04.2009
		Bulb / Rear View Mirror		01.10.2009
		Lighting and Light Signaling Devices / Retro-Reflectors / Reflective Tapes		01.04.2010
		Traction Battery for Electric Power train Vehicles		31.03.2023

ANNEXURE-II

Standards	Notification	Date	Effective From	Applicable CMVR
BoV / VIN / Brakes / Lamps/ Horn / Bulbs / Tyre/Lighting & light signaling devices /Traction Battery and other safety components/ Reflective tapes/ Overall dimensions/Wheel rim	GSR 589(E)	16.09.2005	Notified date	ANNEXURE-I ANNEXURE- IA ANNEXURE- IB
	GSR 784(E)	12.11.2008		
	S.O. 2590 (E)	08.10.2014		
	S.O. 3090 (E)	08.12.2014		
	GSR 1192 (E)	10.12.2018		
	GSR 807 (E)	23.10.2019		
	GSR 414 (E)	26.06.2020		
	S.O.1406 (E)	22.03.2021		
	GSR 888 (E)	19.12.2022		
	S.O.3800(E)	22.08.2023		

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ANNEXURE - III


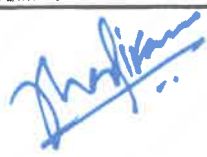


Sr. No.	Battery Make	Battery ID	Voltage (V)	Capacity (Ah)	Type
1	EXIDE INDUSTRIES LTD.	ERTBPLUS140L	48	110	Lead Acid

Annexure - IV

Sr. No.	Tyre make	Size	Type
1	RALSON	3.75-12, 66B 6PR	Tube
2	CEAT	3.75-12,66B 4PR	
3	TVS	3.75-12,60J 4PR	
4	MRF	3.75-12,66E 4PR	

Annexure - V

Sr. No.	Variant Model Name	Seating Capacity (incl driver)	GVW (kg)	Load Carrying Capacity (Kg)
1	PEHALWAN e-Garbage	1	818	310

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