



METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER

Department of Science and Technology
Gen. Santos Ave., Bicutan, Taguig City, 1631 Philippines
Tel. Nos. 8837-0431 to 38 local 481 or 482/Fax Nos.: 88837-0430

ANALYSIS AND TESTING DIVISION

CERTIFICATE

LEXSWITCH ECOMOBILITY INC.

24th Floor, Philippine Stock Exchange Tower, One Bonifacio High St.,
5th Ave., Cor., 28th St., BGC, Fort Bonifacio, Taguig City

Job Description : PUV DIMENSIONAL MEASUREMENT TEST
Customer's Sample Description : Lex-HS6606 (Class 2)
Seat Orientation: Side Facing
Conduction Sticker: U6 C586
Date Received : 21 October 2024
Date Tested : 22 October 2024
Location of Testing : Auto-parts Testing Laboratory (ATL)

TEST METHOD:

Tests were conducted on as-received samples in accordance with:

UN Regulation No. 107 Revision 6 : Uniform provisions concerning the approval of category M2 and M3 vehicles regards to their general construction

UN Regulation No. 52 Revision 3 : Uniform provisions concerning the approval of M2 and M3 small capacity vehicles with regards to their general construction

UN Regulation No. 125 (Addendum 124) : Uniform provisions concerning the approval of motor vehicles with regard to the forward field of vision of the motor vehicle driver.

PNS 634: 1992 / ISO 612: 1978 : Road Vehicles – Dimensions of motor vehicles and towed vehicles – Terms and Definitions

Based on the requirement of:

PNS 2126: 2017 : Public Utility Vehicle Class 2 and Class 3 – Dimensions

TEST RESULTS:

Results of measurements are shown on the succeeding pages of this certificate.

-page 1 of 5 pages-

KARL ANDREW S. CHAVEZ
SRS II

Noted by: FLORANTE A. CATALAN
Chief, Physical Laboratories Section

Certificate Number : MIRDC-102024-ATL-0057
Date : 22 October 2024

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VEHICLE UNIT CONDITION UPON SUBMISSION

- | | |
|-----------------------------------|---|
| 1. Specified Gross Vehicle Weight | : 4,800 Kg (as declared) |
| 2. Chassis Number / VIN | : LPHFA2BD0PY000450 (as declared) |
| 3. Electric Motor | : Alternating Current (as declared) |
| 3.1 Power | : 60 kW (as declared) |
| 4. Battery Specification | |
| 4.1 Battery Type | : Lithium Ion (Li-ion) (as declared) |
| 4.2 Max Power | : 70.19 kWh |
| 5. Platform Manufacturer | : LexBuild-Nanning Huashu New Energy Automobile Co., Ltd. (as declared) |
| 5.1 Platform Model | : Not declared |
| 5.2 Body Maker | : LexBuild-Nanning Huashu New Energy Automobile Co., Ltd. (as declared) |
| 6. Wheel Size | : 225/75R16 |
| 6.1 Number of Wheels | : 4 |
| 7. Total Number of Passengers | : 21 seating + driver, 9 standing (as declared) |
| 8. Air-conditioning System | : Installed |

TEST RESULTS:

Parameters	Vehicle Dimensional	Actual Measurement	Uncertainty of Measurement
I. Overall Height, Width and Length			
Overall Height (h), cm	—	283.00	—
Overall Width (w), cm	235 max.	188.40	± 1.91
Overall Length (l), cm	700 max.	598.20	± 4.36
II. Wheel Base, Front and Rear Overhang			
Wheel Base (WB), cm	—	349.40	± 2.70
Rear Overhang (RO), cm	—	123.50	± 0.98
Front Overhang (FO), cm	—	125.30	± 0.99
III. Cabin Dimensions			
Floor-to-ceiling height (h_c), cm	175 min.	186.40	± 1.08
Gangway width (W_g), cm (Class 2)	80 min.	80.60	± 0.19
Gangway width (W_g), cm (Class 3)	Not Applicable	Not Applicable	—

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TEST RESULTS:

Parameters	Vehicle Dimensional Limit	Actual Measurement	Uncertainty of Measurement
IV. Seat dimensions and Seat layout			
Seat Dimensions			
Seat Depth (D_s), cm	35 min.	43.20	± 0.22
Width seat cushion (hip) (W_{sh})			
Individual Seats, cm	40 min.	40.20	± 0.22
Width seat back (shoulder) (W_{ss})			
Individual Seats, cm	40 min.	40.20	± 0.22
Armrest to top seat cushion (h_{ats}), cm	22 min.	None	-
Seat Layout			
Floor to top seat cushion (h_{fts}), cm	40 - 50	46.30	± 0.22
Minimum Distance between backseats, Side Facing (D_{bpf}), cm	150 min.	165.90	± 0.22
Minimum Distance between backseats, Forward Facing (D_{bpf}), cm	Not Applicable	Not Applicable	-

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TEST RESULTS:

Parameters	Vehicle Dimensional Limit	Actual Measurement	Uncertainty of Measurement
V. Space for each standing passenger			
Gangway length, cm	-	406.70	± 0.22
Gangway width, cm	80 min.	80.60	± 0.22
Number of standing passenger	-	20	-
VI. Step Board dimensions			
Ground to top of step board (h_{gtsb}), cm	30 - 40	37.10	± 0.22
Width of step board (W_{sb}), cm	25 min.	42.00	± 0.13
Height per step (h_s), cm	12 - 35	25.30	± 0.13
Width per step (W_s), cm	20 min.	42.00	± 0.13
VII. Service door dimensions			
Entry height (h_E), cm	165 min.	186.70	± 0.19
Aperture height (h_A), cm	140 min.	161.40	± 0.22
Door pathway width (W_d), cm	65 min.	80.50	± 0.19
VIII. Emergency exit dimensions			
Emergency Door			
Height, cm	125 min.	None	-
Width, cm	55 min.	None	-
Emergency Window Aperture Area, cm ² *	4000 min.	11734	± 2.94
Escape Hatches Aperture Area, cm ²	4500 min.	None	-
IX. Hand Rails			
Length of hand rail (l_{ghr}), cm	10 min.	15.30	± 0.13
Bottom of the hand rail from the floor (h_{bhr}), cm	165 max.	164.30	± 0.19
Length of the service door hand rail (l_{dhr}), cm	30 min.	None	-
Height of center of the service door hand rail (h_{cdhr}), cm	80 - 110	None	-

* - Emergency window labelled as "Emergency Exit" and "Tempered" with emergency hammer.

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C E R T I F I C A T E

LEXSWITCH ECOMOBILITY INC.

TEST RESULTS:

Parameters	Vehicle Dimensional Limit	Actual Measurement	Uncertainty of Measurement
X. External Projection			
Beyond front bumper, cm	25 max.	24.60	± 0.22
Beyond rear bumper, cm	25 max.	0.00	± 0.22
Beyond left side, cm	25 max.	23.30	± 0.22
Beyond right side, cm	25 max.	14.90	± 0.22
Beyond the top, cm	25 max.	0.00	± 0.22
XI. Field of Vision (UN R125 Clause 5.1.4)	At least partially visible when viewed directly from V ₂	Acceptable	-

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See attachment (pages 1-3)

Note:

1. Fire extinguisher located at the back the driver seat.
2. The results contained herein only relates to the item tested.
3. All tires were set to have 80 psi pressure during measurements.
4. The item/s type-approved is specific to the model of the vehicle upon submission to the laboratory.
Any alteration/modification will invalid the results for the model type approved.


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ANALYSIS AND TESTING DIVISION PHYSICAL LABORATORIES SECTION

MIRDC Compound, General Santos Avenue,
Bicutan, Taguig, Metro Manila, Philippines 1631
Tel. Nos.: 837-0431 to 38 local 481 / 482
Fax Nos.: 837-0431 / 838-7878

ATTACHMENT



Front View



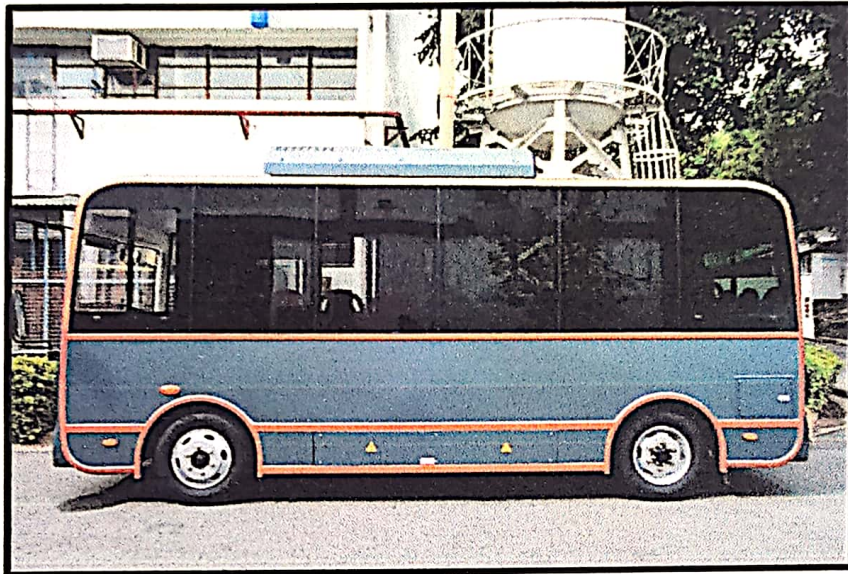
Right Side View

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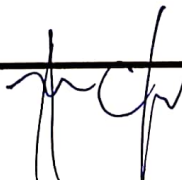
ATTACHMENT



Left Side View



Back View





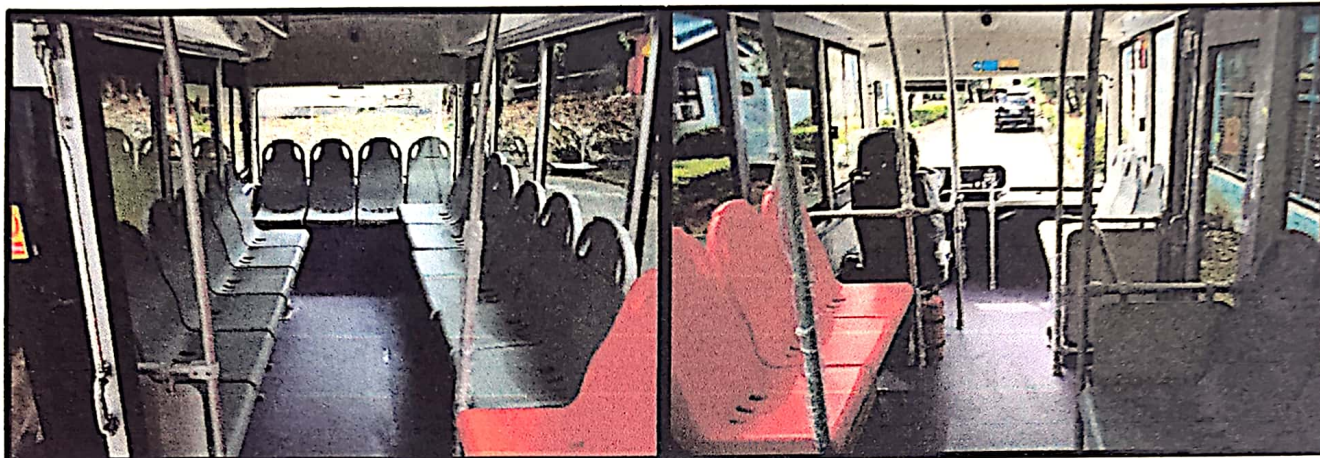
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ATTACHMENT



Inside View



Step Board

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