



**GLOBAL
AUTOMOTIVE
RESEARCH
CENTRE**

ENSURING SAFE DRIVE

वैश्विक मोटर वाहन अनुसंधान केंद्र

राष्ट्रीय मोटर वाहन बोर्ड (नैब)

भारी उद्योग मंत्रालय के अंतर्गत उपक्रम, भारत सरकार

GLOBAL AUTOMOTIVE RESEARCH CENTRE (GARC)

A Division of National Automotive Board (NAB) Under MoHI, Govt. of India

Authorised Test Centre under CMVR 126 by MORTHs, Govt. of India

& NABL Accredited

Non-Transferable

DEVELOPMENT REPORT

Report No. **G D U N 0 0 0 0 8**

Date: 07.07.2025

1. Customer Details:

Company Name & Address	Assembly Location
Vsan Electricals & Sensors, No-10, Rajaranjan Nagar Extension, Krishna Industrial Estate, Vanagaram, Chennai - 600095.	Vsan Electricals & Sensors, No-10, Rajaranjan Nagar Extension, Krishna Industrial Estate, Vanagaram, Chennai - 600095.

2. Description of Test Sample:

Description	Model/ID	Make	Chassis/S.No	Type	Photograph
e-2W	Metro swift	Vsan Electricals & Sensors	VSANMOTORS250324021	e-2W (W/O Pedal Assistance)	No.1 to 4 at Pg.3
Motor	VSAN-MS-MR02	VSAN MOTORS	VSANMOTORRS250324047	BLDC	No.6 at Pg.3
Controller	VSAN- MS-CR-02		669020250340028	BLDC	No.7 at Pg.3
Battery	PB-5128	PINNACLE LITHIUM POWER	PUL4545	LITHIUM ION	No.8at Pg. 3
Working Voltage		66.7V			

3. Test Objective: To carry out applicable testing / Verification of electric 2-wheeler (Model' **Metro swift** refer Annexure-I for photographs) for verification as per clause No. of GSR 291 (E) Dt.24-04-2014. Test conducted on 28.06.2025

4. Observations and Test Results:

Parameter	Requirement	Observed
Max Speed	< 25 Km/h	22.4kmph
Max 30min. Power	<250W	173W
Unladen Weight without Battery	≤60kg	58 kg
Fitment of Reflector (Front)	White Colour	White Colour
Fitment of Reflector (Rear)	Red Colour	Red Colour
Suitable Brake System	Shall be fitted	Fitted(Front.Disk,Rear.Drum)

5. Remarks: This Report is issued only for development purpose after verification of the actual sample of 2-wheeler (with its parts) as submitted by the applicant / Customer / company to GARC. GARC will not be liable for any claim/blame, in case, if the Applicant/ customer / company, changes / Modifies or adjusts, the specifications/ settings of the 2-Wheeler model- **Metro swift** and sells the same in the market with modified specifications.

Vineeth.R

Sr.Technical Assistant

(Prepared by)



K. Rajrajeswari

Sr. Engineer

(Reviewed & Approved by)

GARC Office Address :

Plot E1, SIPCOT Industrial Growth Centre,
Oragadam, Mathur Post, Sriperumputhur Taluk,
Kanchipuram, Tamil Nadu - 602118, India.

Tel : +91-44-27143500

www.garc.co.in

NAB Corporate Office Address:

2nd Floor, Administrative Building,
ICAT Campus-2, Sector-11, IMT Manesar,
Gurugram, Haryana- 122051, India.

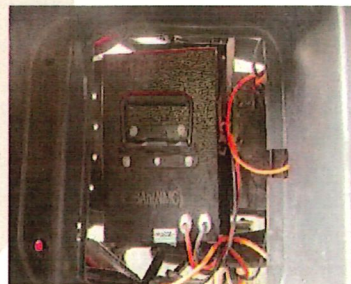
Tel- +91-124-6900000

Page 1 of 3

Non-Transferable

Report No. **G D U N 0 0 0 0 8**

Date:07.07.2025

6.	Test vehicle photos		
 1. Side View-Right		 2. Side View-Left	
 3.Rear View		 4.Front view	 5.Battery Location
 6. Motor		 7. Controller	 8. Battery



Vineeth. R
Sr.Technical Assistant
(Prepared by)




K. Rajajeswari
Sr. Engineer
(Reviewed & Approved by)

Page 2 of 3

GARC Office Address :

Plot E1, SIPCOT Industrial Growth Centre,
Oragadam, Mathur Post, Sriperumputhur Taluk,
Kanchipuram, Tamil Nadu - 602118, India.

Tel : +91-44-27143500

www.garc.co.in

NAB Corporate Office Address:

2nd Floor, Administrative Building,
ICAT Campus-2, Sector-11, IMT Manesar,
Gurugram, Haryana- 122051, India.

Tel- +91-124-6900000

Non-Transferable

Date: 07.07.2025

Report No.

G	D	U	N	0	0	0	0	8
---	---	---	---	---	---	---	---	---

Disclaimer:

1. GARC issues Type Approval Certificates(TAC) /Test Reports/ Extension Reports/ Developmental Test Reports for vehicles/ components/ parts/ assemblies etc. based on the documents produced and/ or prototype / vehicle(s) or submitted by the applicant and testing thereof.
 2. GARC issues Type Approval Certificates (TAC) / Test Reports/ Extension Reports/ Developmental Test Reports in compliance to motor Vehicle Act/ central Motor Vehicle Rules and their provisions as amended from time to time or any other statutory orders under which GARC is authorized. Other Rules / Act are outside the purview/ scope of the TAC/Test Reports/Extension Reports/Developmental Test Reports.
 3. Test(s) on prototype(s) / vehicle(s) or sample(s) is/are carried out on the basis of standard procedures as notified under specific rules/ requested by the applicant. Results of such tests are property of TAC/ Test Reports/Extension Report/Developmental Test Reports. These results cannot be disclosed unless specifically ordered so by Government, court, etc.
 4. Unless otherwise supported by a separate Certificate, this Test Reports/Extension Reports/ Developmental Test Reports shall not be considered in isolation as valid Type approval for any vehicle.
 5. GARC is not responsible for testing each vehicle/components/parts/assemblies etc. For which Test Reports/ Extension reports/ Developmental test reports is issued. Further, GARC is not responsible for ensuring manufacturing quality of the vehicle/components/parts/assemblies etc. for which the Test Reports/Extension Reports/Developmental Test Reports is/ are issued.
 6. GARC is in no way responsible for any misuse of copying of any design/type/system in connection with entire vehicle/components/parts and assemblies covered under the Test Reports/Extension Reports/Developmental Test Reports is /are issued.
 7. Breach of any statutory provisions, of Indian laws or laws of other countries will be sole responsibility of the bearer Test Reports/Extension Reports/Developmental Test Reports is/ are issued and GARC shall not be liable for any claims or damages, whatsoever. The bearer shall alone be liable for the same and shall undertake to indemnify GARC in this regard.
 8. Further, GARC has the right, but not under obligation / withdrawal of the Test Reports/Extension Reports/Developmental Test Reports is/ are issued in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of GARC.
 9. No extract, abridgment or abstraction from this test report may be published or used to advertise the product without the written consent of the Director, GARC, who reserves the absolute right to agree or reject all or any of the details of any items of publicity for which consent may be sought.
- The appropriate local court at Chennai shall have the jurisdiction in respect of any dispute, claim or liability arising out of this report.



Vineeth. R
Sr. Technical Assistant
(Prepared by)




K. Rajajeswari
Sr. Engineer
(Reviewed & Approved by)

Page 3 of 3

GARC Office Address :

Plot E1, SIPCOT Industrial Growth Centre,
Oragadam, Mathur Post, Sriperumpthur Taluk,
Kanchipuram, Tamil Nadu - 602118, India.
Tel : +91-44-27143500

www.garc.co.in

NAB Corporate Office Address:

2nd Floor, Administrative Building,
ICAT Campus-2, Sector-11, IMT Manesar,
Gurugram, Haryana- 122051, India.
Tel- +91-124-6900000