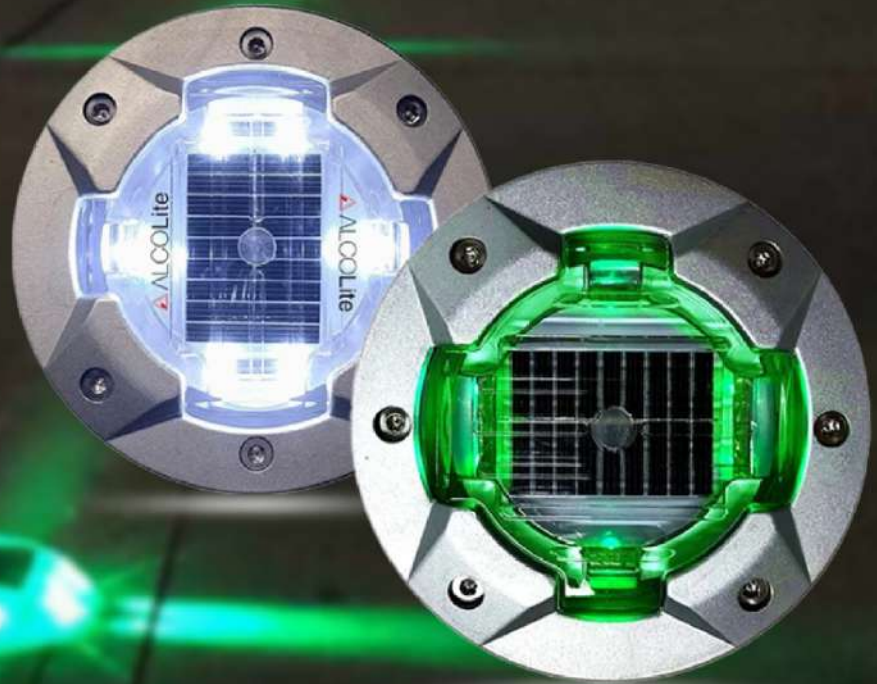


#roadstud

 **ALCOLite**
ROAD SAFETY PRODUCTS

SOLAR ROAD STUD

- ★ Energy Saving
- ★ Environment Friendly
- ★ IP66 Waterproof
- ★ No UV Rays



*The LED Light Come On Automatically As Soon
As It Start Getting Dark Every Night.*

www.alcolite.co.in


TESTREPORT
(Development Test)

Test Report No. C D 0 L S 6 9 9 7

Date:

08.11.2023

- 1.0 NAME AND ADDRESS OF THE CUSTOMER : M/s. Alcolite India Road Safety Pvt. Ltd.
H-14, DSIIDC Industrial Complex, Ground Floor, Front side half portion, Rohtak Road, Nangloi, West Delhi, Udyog Nagar – 110041
- 2.0 CUSTOMER REFERENCE : IOCS Redg. No: CCDALCTSK170301
Dated: 21.09.2023
- 3.0 DESCRIPTION OF TEST COMPONENT:
Component : Alcolite Solar Stud, Qty: 01 No.
ICAT Sample Identification : ICAT/PHL/170301/SSTD/01/2023-24
Manufactured by : Same as mentioned in Sr.No.1.0 above.
Trade Name/Trade Mark : Alcolite
- 4.0 DATE OF RECEIPT OF SAMPLES (DUT) : 06.09.2023
- 5.0 CONDITION OF SAMPLES : No damage observed and found satisfactory
- 7.0 FUNCTIONAL VERIFICATION : Functionality checked and found satisfactory.
- 8.0 DATE OF PERFORMANCE TEST : 21.09.2023
- OBJECTIVE AND PROCEDURE:**
To carry out Flashing Rate Test as per MoRTH Section 800 on specific request of customer as a part of development exercise.
- 9.0 **TESTRESULTS:**
Please refer Test Results and Photographs in Annexure-I of this report.

Prepared By	Checked & Authorized By	Approved By	
			
PRIYANSHU RAJ	AKASH BISWAS	PRITAM SINGH SAWARIYA	
Sr. Tech. Assistant	Asst. Manager	Sr. Manager	

Test Report No. C D 0 L S 6 9 9 7

Date: 08.11.2023




ANNEXURE -I

1.0 TEST RESULTS:

1.1 Flashing Rate (Cl.No.804.6, MoRTH Section 800)

Sr.No.	Test	Required Specifications	Result	Remarks
1	Flashing Rate	Its Flashing Rate shall not be less than 1Hz	>60 Flashes in 1min (i.e. > 1Hz)	Passed DUT Sample Id: ICAT/PHL/170301 /SSTD/01/202 3-24



Prepared By	Checked & Authorized By	
		
PRIYANSHU RAJ	AKASH BISWAS	
Sr. Tech. Assistant	Asst. Manager	

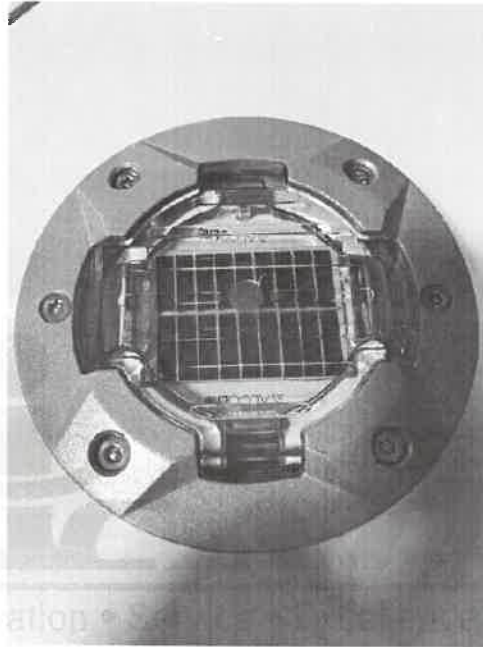
Test Report No. C D 0 L S 6 9 9 7




Date:

08.11.2023

ANNEXURE -I

1.2 Photograph of the Sample:



Prepared By	Checked & Authorized By	 INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY MANESAR • 150710N Page 3 of 3 [170301]
		
PRIYANSHU RAJ Sr. Tech. Assistant	AKASH BISWAS Asst. Manager	



SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi – 110007 (India)
An ISO - 9001, 14001 & 45001 Certified Institute

Website : www.shriraminstitute.org
E-mail id : customercare@shriraminstitute.org
qad@shriraminstitute.org

TEST REPORT

NO : C1/0000362896

Issued To :
Client Code : (DLHI01A2314)
ALCOLITE INDIA ROAD SAFETY PRIVATE LIMITED
GROUND FLOOR, 37/23
VILLAGE MUNDKA, WEST DELHI
DELHI
DELHI-110041

Date of issue : 21-06-2024
Job No : 2406-1-141-863
Booking No : RG2425/1/2507
Booking Date : 14-06-2024
Customer Ref No. : email
Customer Ref Dt. : 14-06-2024
Location : Laboratory

Job No- 2406-1-141-863

Sample Detail :

ONE SAMPLE (QUANTITY : 5 NOS) DESCRIBED AS ALCOLITE ROUND SOLAR STUD AL-200, WAS RECEIVED.

"THE SAMPLING WAS NOT CARRIED OUT BY SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH. THE SAMPLE DESCRIPTION PROVIDED IN THE TEST CERTIFICATE ARE BASED ON DECLARATION BY THE CUSTOMER."

S.No.	Tests	Results	Requirements as per MORTH 804.6	Conformity	Protocol / Method used
1	Compressive Strength, kgf (Breaking Strength)	43474	13635 Minimum	Yes	ASTM 4280-20

Date of Receipt : 14-06-2024

Date of Start : 14-06-2024

Date of Completion : 21-06-2024

End of report

GC-01(Rev-05)

1/1

Reviewed and Authorized by
EMPLOYEE CODE: (4159)

Note: The results relate only to the items tested / calibrated above.
Scanned copies/photocopies or any other copies should be authenticated by reference to the original report.

TESTREPORT
(Development Test)

Test Report No. C D 0 L T 6 0 6 2

Date:

29.01.2024

1.0 NAME AND ADDRESS OF THE CUSTOMER : M/s. Alcolite India Road Safety Pvt. Ltd.
H-14, DSIIDC Industrial Complex,
Ground Floor, Front side half portion,
Rohtak Road, Nangloi, West Delhi,
Udyog Nagar – 110041

2.0 CUSTOMER REFERENCE : IOCS Redg. No: CCDALCTSLFTL170300
Dated: 21.09.2023

3.0 DESCRIPTION OF TEST COMPONENT:

Component : Alcolite Solar Stud, Qty: 15.Nos
ICAT Sample Identification : ICAT/PHL/170300/SSTD/01 to 15/2023-24
Manufactured by : Same as mentioned in Sr.No.1.0 above.
Trade Name/Trade Mark : Alcolite

4.0 DATE OF RECEIPT OF SAMPLES (DUT) : 06.09.2023

5.0 CONDITION OF SAMPLES : No damage observed and found satisfactory.

6.0 FUNCTIONAL VERIFICATION : Functionality checked and found satisfactory.





7.0 DATE OF PERFORMANCE TEST : 21.09.2023 to 29.01.2024

8.0 OBJECTIVE AND PROCEDURE:

To carry out Body material, Visibility Test, Temperature Cycling Test, Dimension, IP and Flashing Rate and as per MoRTH Section 800 & ASTM D4280 respectively on specific request of customer as a part of development exercise.

9.0 TEST RESULTS:

Please refer Test Results and Photographs in Annexure-I of this report.

Prepared By	Checked & Authorized By	Approved By	
			
AKASH BISWAS	GIRISH SINGH	PRITAM SINGH SAWARIYA	
Asst .Manager	Dy. Manager	Sr. Manager	




Test Report No. C D 0 L T 6 0 6 2

Date:

29.01.2024

DISCLAIMER

- 1) This test report pertains only to the test samples / components / parts/ assemblies/ gensets/ materials /fuels/chemicals/engines/vehicles/Agri. Tractors etc. actually tested /witnessed / verified by ICAT in the presented condition based on the documents / information produced /submitted by the customer.
- 2) The issuance of this test report alone does not indicate any measure of approval, certification, supervision, COP, control of quality surveillance by ICAT of the test samples / items/ components.
- 3) 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, ICAT, 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.
- 4) ICAT is responsible only for the test results provided in the report. ICAT is not responsible for the information supplied by the customer and its impact on the test results thereof.
- 5) *Where applicable, ICAT provides statement of conformity based on ISO/IEC Guide 98-4 in reports issued.*
- 6) ICAT is in no way responsible for any misuse or copying of any design in connection with entire vehicle / components / systems and assemblies.
- 7) Breach of any statutory provisions, of Indian laws or laws of other countries, will be sole responsibility of the customer.
- 8) ICAT shall not be liable for any claims or damages made by the customer, whatsoever. The customer shall alone be liable for the same and undertakes to indemnify ICAT in this regard.
- 9) Further, ICAT has the right to initiate cancellation / withdrawal of the certificate / report issued, in case of any fraud, misrepresentation, when it comes to the knowledge of ICAT.
- 10) The appropriate local court at Gurugram shall have the jurisdiction in respect of any dispute, claim or liability arising out of this report.

Prepared By	Checked & Authorized By	
		
AKASH BISWAS	GIRISH SINGH	
Asst .Manager	Dy. Manager	

Test Report No. C D 0 L T 6 0 6 2

Date:

29.01.2024

ANNEXURE -I

1.0 TEST RESULTS:




1.1 Performance

1.1.1 Body Material (Cl.No.804.6, MoRTH Section 800)

Sr.No.	Test	Specifications	Remarks
1	Body Material	The Solar Studs shall be made of Aluminium Alloy and poly carbonate material. (Proof of material Certificates to be provided by Manufacturer.)	Aluminum Alloy (Al: 85.25%) Test Report Issued By M/S. Gaur Spectro Lab, submitted by the customer.

1.1.2 Visibility Test (Cl.No.804.6, MoRTH Section 800)

Sr.No.	Test	Specifications	Result	Remarks
1	Visibility Test	It shall have super bright LEDs so as to provide long visibility from adistance of more than 800m.	Visibility detected by naked eye from a distance of more than 800m	Passed DUT Sample Id: ICAT/PHL/170300/SSTD/03/ 2023-24

Prepared By	Checked & Authorized By	
		 INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY Innovation • Service • Excellence MANESAR
AKASH BISWAS	GIRISH SINGH	
Asst .Manager	Dy. Manager	
		Page 3 of 6 [170300]

Test Report No. C D 0 L T 6 0 6 2

Date:

29.01.2024

1.1.3 Temperature Cycling Test (Cl.No.804.6, MoRTH Section 800)




Sr.No.	Test	Specifications	Result	Remarks
1	Temperature Cycling Test	It should be able to give the prescribes performance in the temperature range of -40°C to +55°C.	Temperature Cycling test for the temperature range of -40°C to +55°C was performed for 24 hrs (referring SOP as per ASTM-D 4280-04) and performance found ok.	Passed DUT Sample Id: ICAT/PHL/170300/ SSTD/06-15/2023-24

1.1.4 Flashing Rate (Cl.No.804.6, MoRTH Section 800)

Sr.No	Test	Specifications	Result	Remarks
1	Flashing Rate	Its Flashing Rate shall not be less than 1Hz	>60 Flashes in 1min (i.e. > 1Hz)	Passed DUT Sample Id: ICAT/PHL/170300/SSTD/01/ 2023-24

1.1.5 Dimension (Cl.No.804.6, MoRTH Section 800)

Sr. No.	Test	Required Specifications	Result	Remarks
1	Dimensions	Height : Solar Stud height shall be a minimum of 10 mm	Height : 39 mm	Passed DUT Sample Id: ICAT/PHL/170300/SST D/02/2023-24
2		Width : Solar Stud Width shall be a minimum of 100 mm	Dia : 137.5 mm	
3		Length : Solar Stud length shall be a minimum of 100 mm		

Prepared By	Checked & Authorized By	
		 INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY Innovation • Service • Excellence MANESAR • INDIA
AKASH BISWAS	GIRISH SINGH	
Asst .Manager	Dy. Manager	




Test Report No. C D 0 L T 6 0 6 2

Date:

29.01.2024

1.1.6 Ingress Protection (IP) Test (STP referred as per IEC 60529:2001, Cl. No. 14.2.8)

Sr.No	Sample Id.	Parameters	SPECIFICATION CRITERIA	Results
1	ICAT/PHL/170300 /SSTD/04/2023-24	IP 6X	<p>Dust-tight (6X) : Dust- proof sample (first characteristics IP numeral 6) has been tested in a dust chamber, in which talcum powder has been maintained in suspension by an air current. The chamber was contain 2kg of powder for every cubic metre of its volume. The talcum powder used was able to pass through a square-meshed sieve whose nominal wire diameter is 50 µm and whose nominal free distance between wires is 75µm. Testing duration 3hrs.</p>	SATISFACTORY
		IP X5	<p>Jet-proof (X5) : (second characteristic IP numeral 5) Water jet hose nozzle with 6.3 mm dia at a distance of 2.3 mm to 5 mm. Water flow rate : 12.5 l/min ±5% at 1 min/sqm for at least 3 mins.</p>	SATISFACTORY

Prepared By	Checked & Authorized By	
		
AKASH BISWAS	GIRISH SINGH	
Asst .Manager	Dy. Manager	

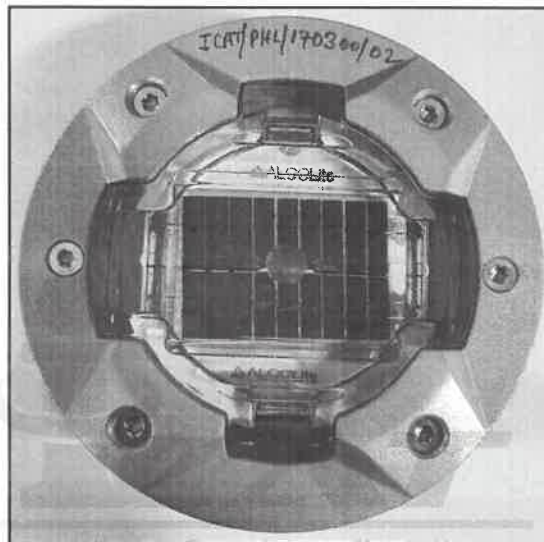
Test Report No. C D 0 L T 6 0 6 2




Date:

29.01.2024

ANNEXURE -II

Photograph of the Sample:



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AKASH BISWAS	GIRISH SINGH	
Asst .Manager	Dy. Manager	