

भारत सरकार

Government of India राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)

National Test House (Eastern Region)

11/1, जजेस कोर्ट रोड, अलीपुर, कोलकाता - 700 027 11/1, Judges' Court Road, Alipore, Kolkata - 700 027

परीक्षण प्रमाण पत्र

TEST CERTIFICATE

TC-5635 INTERIM/FINAL REPORT

Date: 16/04/2021

Number of Copies issued परीक्षण प्रमाण पत्र सं Test Certificate No

जारी होने की तिथि

कोड नं

पृष्ठ Page पृष्ठीं की संख्या No of Pages

FORM NO: NTH/ALP/F/5

NTH(ER)/EL(A)/2021/00293

Date of Issue 24/03/2022

Single

Code No 1635236354113

1

lo of Pages

जिसे जारी करना है

Issued To

पता

Address

OKAYA POWER PRIVATE LIMITED

D-8,Udyog Nagar,Rohtak Road, New Delhi - 110041.

प्राहक का सन्दर्भ सं एवं दिनांक Customada Data N

Customer's Ref. No.

पंजिका सं एवं दिनांक Register No & Date

परीक्षण सामग्री का बिवरण Description of Test Item

परीक्षण सामग्री का पहचान Identification of Test Item Email

00293/NTH(ER)/EL(A)/28/10/2021

One sample consisting of 08 nos. secondary batteries for solar photovoltaic application stated to be 12V 20Ah at C10 rate Solar Batteries.Brand:OKAYA.

Marking:As in attached sheet "IS:16270".

नमुना का विशिष्टि (यदि हों) Product Specification (Fany)

नमुना प्राप्ति की तिथि Date of Receipt of the Test tem

कार्य सम्पादन की तिथि Date(s) of Performance of Tests

व्यावद्वत प्रणाली का पहचान Method(s) used for Test

नमुना प्रकिषा जही प्रासंगिक हों Sampling Procedure where relevant Not Applicable.

26/10/2021

From: 23/03/2022

To: 23/03/2022

IS:16270-2014 read with IS:13369-1992(Amndt. no. 1 to 3).

Not Applicable.

Tested By

Samriddha Gangopadhyay

SO Electrical

Checked By

Arvind Singh Negi Scientist- B (Electrical) **Approved By**

Biswa Ranjan Mandal Scientist- C (Electrical)



भारत सरकार Government of India

राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)

National Test House (Eastern Region)

11/1, जजेस कोर्ट रोड, अलीपुर, कोलकाता - 700 027 11/1, Judges' Court Road, Alipore, Kolkata - 700 027 परीक्षण प्रमाण पत्र





FORM NO: NTH/ALP/F/5

Number of Copies issued

परीक्षण प्रमाण पत्र सं Test Certificate No

NTH(ER)/EL(A)/2021/00293

Single

TEST CERTIFICATE

जारी होने की तिथि

Date of Issue 24/03/2022

कोड नं

Code No 1635236354113

पुष्ठ Page

पृष्ठीं की संख्या No of Pages

SI. No.

Test Name

Test Result

Limit

Interim Report

As in attached sheet "IS:16270".

As in attached sheet

टि पणी Note

1. Annexure consisting of 03 nos. of pages forms part of the test certificate.

2. Tests carried out at permanent test facility located at NTH(ER), Alipore.

केफियत Remarks The sample so far as it has been examined and tested meets the requirement of IS: 16270-2014 in respect of test carried out. Final report will be issued after completion of remaining tests.

Tested By

Samriddha Gangopadhyay

SO Electrical

Checked By

Arvind Singh Negi Scientist- B (Electrical) Approved By

Biswa Ranjan Mandal Scientist- C (Electrical)



भारत सरकार Government of India राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)

National Test House (Eastern Region)

11/1, जजेस कोर्ट रोड, अलीपुर, कोलकाता - 700 027 11/1, Judges' Court Road, Alipore, Kolkata - 700 027



TEST CERTIFICATE

Test certificate no NTH(ER)/EL(A)/2021/00293

Date of Issue 23/03/2022

Code No 1635236354113

Page 1 No. of Pages 3

"IS:16270"

Marking: (i) Printed on both wider sides of a Battery:

OKAYA NEVER STOP INDIA SOLAR TUBULAR BATTERY ST020S

20 Ah

Capacity 20Ah @ C₁₀ , Sp. Gr.:1.240±0.005 (27°C)

(ii) On the top of a Battery:

Positive polarity embossed with '+' symbol & marked with red colour. Negative polarity embossed with '-' symbol & marked with blue colour.

(iv) Embossed on the top of a Battery : HSTXR13006228074

The marking of the other Batteries are same & identical except Nos. HSTXR13006228075, HSTXR13006228076, HSTXR13006228077, HSTXR13006228078, HSTXR13006228080 & HSTXR13006228081. Eight nos. 12V,20Ah Batteries were marked randomly as HA1 to HA8 by this laboratory for identification purpose.

Tested By

Samriddha Gangopadhyay SO (Electrical) Checked By

Arvind Singh Negi Scientist B (Electrical) Approved By

Biswa Ranjan Mandal Scientist C (Electrical)



भारत सरकार Government of India राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र) National Test House (Eastern Region)

11/1, जजेस कोर्ट रोड, अलीपुर, कोलकाता - 700 027 11/1, Judges' Court Road, Alipore, Kolkata - 700 027



TEST CERTIFICATE

Test certificate no NTH(ER)/EL(A)/2021/00293 Date of Issue 23/03/2022

Code No 1635236354113

Page 2 No. of Pages 3

"IS:16270"

Tests:

[Carried out as per IS:16270-2014 read with IS:13369-1992 (Amndt. no.1 to 3)]

SI. No.	Test Name	Requirements		THE THE STREET	Test	Result	E TOTAL	वर्षाकृता वर्ष	Remarks
136 400 51 40 51 40	Test for Capacity: (Carried out as per Cl.8.1 of IS:16270-2014)								
	Capacity in ampere-hours (Ah) at C ₁₀ rate corrected to 27 °C	The actual capacity shall not be less than the rated capacity i.e. 20Ah and shall not be more than 130% of the rated capacity i.e 26Ah	Battery marked						ALL SHOUL ME
			HA1	HA2	НА3	HA4	HA5	HA6	
			25.357	25.195	25.143	24.381	24.026	25.101	
2.	Charge Retention Test: (Carried out as per Cl.8.3 of IS:16270-2014)								Satisfactory
	TOWN EST HOUSE	The part of the same of the sa	Battery marked						The day
	CATTORIAL TEST HOUSE	राष्ट्रीय प्रतिश्री जाती	MATIONAL	HA1	E SUSTA	Signa and	HA2	WAL TEST HO	SE THEFT
	Loss of capacity (in %):	Shall not exceed 10%	THE WATTON	2.21	ORE THE	EL TELEFOR	5.33	HOUSE THEM	
3.	Water Loss Test: (Carried out as per Cl.8.6 of IS:16270-2014)								
	T STEET NATIONAL TE	STHOUSE TOP THE	Battery marked						
	THE THE PATTONA	TEST HOUSE THETE S	HA3						OPA TEST HOUSE TICHAL TEST HOUSE WATTOMAL TEST H
	Loss of Water (in g/Ah/Battery):	18 (Maximum)	TOTAL STATE OF THE PARTY OF THE						

Tested By

Samriddha Gangopadhyay

SO (Electrical)

Checked By

Arvind Singh Negi Scientist B (Electrical) Approved By

Biswa Ranjan Mandal Scientist C (Electrical)



भारत सरकार Government of India राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)

National Test House (Eastern Region)

11/1, जजेस कोर्ट रोड, अलीपुर, कोलकाता - 700 027 11/1, Judges' Court Road, Alipore, Kolkata - 700 027





FORM NO: NTH/ALP/F/5

TEST CERTIFICATE

Test certificate no NTH(ER)/EL(A)/2021/00293

Date of Issue 23/03/2022

Code No 1635236354113

"IS:16270"

Page 3 No. of Pages 3

SI. No.	AND THE STATE OF T		Test Result	Remarks	
	Sulphation Test: (Carried out as per Cl.8.	Satisfactory			
NO.	Duration of capacity in Hours at C120 rate:		132 Hours	ASTRONOMICAL STATES	

Tested By

Samriddha Gangopadhyay SO (Electrical)

good hoad of

Checked By

Arvind Singh Negi Scientist B (Electrical) Approved By

Biswa Ranjan Mandal Scientist C (Electrical)