



भारत सरकार  
Government of India

FORM NO : NTH/ALP/F/5

राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)  
National Test House (Eastern Region)  
11/1, जजसे कोर्ट रोड, अलीपुर, कोलकाता - 700 027  
11/1, Judges' Court Road, Alipore, Kolkata - 700 027



परीक्षण प्रमाण पत्र

Number of Copies issued Single

TEST CERTIFICATE

INTERIM/FINAL REPORT

परीक्षण प्रमाण पत्र सं.  
Test Certificate No

जारी होने की तिथि

कोड नं

पृष्ठ

पृष्ठों की संख्या

NTH(ER)/EL(A)/2021/00259B

Date of Issue  
17/11/2021

Code No

1631530743055

Page  
1

No of Pages  
2

जिसे जारी करना है

OKAYA POWER PRIVATE LIMITED

Issued To

पता

Address

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

ग्राहक का सन्दर्भ सं एवं दिनांक

Customer's Ref. No.

Email

Date: 15/07/2021

पंजिका सं एवं दिनांक

Register No & Date

00259/NTH(ER)/EL(A)/15/09/2021

परीक्षण सामग्री का विवरण

Description of Test Item

One sample consisting of 06 nos. secondary batteries for solar photovoltaic application stated to be 12V 150Ah at C10 rate Solar Batteries,Brand:OKAYA.

परीक्षण सामग्री का पहचान

Identification of Test Item

Marking:As in attached sheet "Annexure".

नमूना का विशिष्टि (यदि हों)

Product Specification (If any)

Not Applicable.

नमूना प्राप्ति की तिथि

Date of Receipt of the Test Item

13/09/2021

कार्य सम्पादन की तिथि

Date(s) of Performance of Tests

From: 06/10/2021

To: 17/11/2021

व्यावहृत प्रणाली का पहचान

Method(s) used for Test

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

नमूना प्रक्रिया जहाँ प्रासंगिक हों

Sampling Procedure where relevant

Not Applicable.

Tested By

Sayantan Das  
SO Electrical

Checked By

Samridha Gangopadhyay  
SO 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

Number of Copies issued Single

TEST CERTIFICATE

INTERIM/FINAL REPORT

परीक्षण प्रमाण पत्र सं.  
Test Certificate Noजारी होने की तिथि  
Date of Issue  
17/11/2021कोड नं  
Code No  
1631530743055पृष्ठ  
Page  
2पृष्ठों की संख्या  
No of Pages  
2

NTH(ER)/EL(A)/2021/00259B

Sl. No.

Test Name

Test Result

Limit

Sl. No.	Test Name	Test Result	Limit
1	Interim Tests	As in attached sheet "Annexure".	As in attached sheet Annexure

टिप्पणी  
Note

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

कैफियत  
Remarks

Tested By

Sayantan Das  
SO Electrical

Checked By

Samriddha Gangopadhyay  
SO 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)/2021/00259B

Date of Issue  
17/11/2021

Code No  
1631530743055

Page 1 No. of Pages 2

### "Annexure"

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

OKAYA  
NEVER STOP INDIA  
SOLAR  
TUBULAR BATTERY  
ST150S  
150 Ah  
Capacity 150Ah @ C<sub>10</sub> , 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 :

HSTSR37905888694

The marking of the other Batteries are same & identical except Nos. HSTSR37905888679, HSTSR37905888661, HSTSR37905888680, HSTSR37905888720 & HSTSR37905888712. Six nos. 12V,150Ah Batteries were marked randomly as GY1 to GY6 by this laboratory for identification purpose.

Tested By

  
Sayantan Das  
SO (Electrical)

Checked By

  
Samriddha Gangopadhyay  
SO (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, जजसेस कोर्ट रोड, अलीपुर, कोलकाता - 700 027  
11/1, Judges' Court Road, Alipore, Kolkata - 700 027



## TEST CERTIFICATE

Test certificate no  
NTH(ER)/EL(A)/2021/00259B

Date of Issue  
17/11/2021

Code No  
1631530743055

Page 2 No. of Pages 2

"Annexure"

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

Sl. No.	Test Name	Requirements	Test Result						Remarks
1	<b>Test for Capacity :</b> (Carried out as per Cl.8.1 of IS:16270-2014)		<b>Battery marked</b>						Satisfactory
	Capacity in ampere-hours (Ah) at C <sub>10</sub> rate corrected to 27°C	The actual capacity shall not be less than the rated capacity i.e. 150Ah and shall not be more than 130% of the rated capacity i.e. 195Ah	<b>GY1</b>	<b>GY2</b>	<b>GY3</b>	<b>GY4</b>	<b>GY5</b>	<b>GY6</b>	
			161.723	156.737	155.355	162.354	156.828	161.711	
2.	<b>Charge Retention Test :</b> (Carried out as per Cl.8.3 of IS:16270-2014)		<b>Battery marked</b>						Satisfactory
	Loss of capacity (in %) :	Shall not exceed 10%	<b>GY5</b>			<b>GY6</b>			
			8.3			4.1			
3.	<b>Water Loss Test :</b> (Carried out as per Cl.8.6 of IS:16270-2014)		<b>Battery marked</b>						Satisfactory
	Loss of Water (in g/Ah/Battery) :	18 (Maximum)	<b>GY2</b>						
			13.30						

Tested By

Sayantan Das  
SO (Electrical)

Checked By

Samridha Gangopadhyay  
SO (Electrical)

Approved By

Biswa Ranjan Mandal  
Scientist C (Electrical)