FORM NO: NTH/ALP/F/5



#### 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 **Roविद्यामा (parey)Kulk**ata - 700 027 Single TEST CERTIFICATE



Number of Copies issued

परीक्षाण प्रमाण पत्र सं Test Certificate No

NTH(ER)/EL(A)/2021/0021B

जारी होने की तिथि

Date of Issue 06/04/2021 कोड नं

Code No 1593065478368 पृष्ठ Page पृष्ठों की संख्या No of Pages

2

Date: 16/04/2020

INTERIM/FINAL REPORT

जिसे वारी करना है

**Issued To** 

पता

Address

OKAYA POWER PRIVATE LIMITED

D-7,Udyog Nagar,Rohtak Road, New Delhi - 110041.

पाहक का सन्दर्भ सं एवं दिनांक

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** 

0021/NTH(ER)/EL(A)/15/01/2021

One sample consisting of 08 nos. Lead Acid Batteries stated to be 12V 100Ah 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

व्याबद्धत प्रणाली का पहचान Method(s) used for Test

नमुना प्रकिया जहाँ प्रासंगिक हाँ Sampling Procedure where relevant Not Applicable.

25/06/2020

From: 15/01/2021

To:

31/03/2021

IS:16270-2014

Not Applicable.

**Tested By** 

Sayantan Das

SO Electrical

Checked By

Samriddha Gangopadhyay

SO Electrical

Approved By

Pradip Kumar Bera

Scientist- C (Electrical)



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INI



Number of Copies issued परीक्षण प्रमाण पत्र सं Test Certificate No

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कोड नं Code No 1593065478368

पृष्ठ Page 2 पृष्ठीं की संख्या No of Pages

SI. No.

**Test Name** 

**Test Result** 

Limit

1

**Discrete Tests** 

As in attached sheet "IS:16270".

As in attached sheet "IS:16270".

टि पणी

Note

NAT

The sample so far as it has been examined and tested meets the requirements of specification no. IS:16270-2014 in respect of tests carried out.

कैफियत Remarks

Tested By

Sayantan Das

SO Electrical

Checked By

Samriddha Gangopadhyay

SO Electrical

Approved By

Pradip Kumar Bera

Scientist- C (Electrical)



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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)/2021/0021B

Date of Issue 06/04/2021

Code No 1593065478368

Page 1 No. of Pages 3

"IS:16270"

#### Marking:

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

OKAYA Chalti Rahe Yeh Zindagi SOLAR TUBULAR BATTERY ST100 S

Capacity 100Ah at C<sub>10</sub> , Sp. Gr.:1.240±0.005 (27°C)

(iii) 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) Engraved on the top of a Battery HSIGR31905007085

The marking of the other Batteries are same & identical except Nos. HSIGR31905007086, HSIGR31905007088, HSIGR31905007087, HSIGR31905007082 & HSIGR31905007091, HSIGR31905007080. Eight nos. 12V,100Ah Batteries were marked randomly as GN1,GN2,GN3,GN4,GN5,GN6,GN7 & GN8 by this laboratory for identification purpose

Tested By

Sayantan Das SO (Electrical) Checked By

Samriddha Gangopadhyay SO (Electrical)

FOPadlying

- Approved By

Pradip Kumar Bera Scientist C (Electrical)



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

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# TEST CERTIFICATE

Test certificate no NTH(ER)/EL(A)/2021/0021B Date of Issue 06/04/2021

Code No 1593065478368

Page 2 No. of Pages 3

"IS:16270"

[Carried out as per IS:16270-2014 & customer requirements]

SI. No.	Test Name	Requirements	प्रमुख्या प्रमुख्या	Alley A	Test F	Result	OUSE T	TO THE	Remarks
11	Test for Capacity: (Carried out as per Cl.8.1 of the specification read with IS:13369)								
	They dilay all	Battery marked			d	15	AND WALLER WALL		
	THE THE THE THE T	THE WATCHALTEST HOUSE	GN1	GN2	GN3	GN4	GN5	GN6	TOTAL TREETING
	Capacity in ampere-hours (Ah) at C <sub>10</sub> rate corrected to 27 °C	Shall not be less than the rated capacity and shall not be more than 130% of the rated capacity.	124.563 Ah	122.178 Ah	129.209 Ah	102.650 Ah	115.643 Ah	115.508 Ah	TOTAL
2.	(Carried out as per Cl.8.3 of the specification read with 15:13369)								Satisfactory
	Loss of capacity	Shall not exceed 10%	Battery marked						A TED HOUSE
	(in %):		GN1 GN2				MULTEST HOUSE		
	HATTONAL TEST HOUS	SE THE THE THE STREET HAS	COMPLI	7.66	SE TIE	नेव गरे	8.08	THE THE	CHALTEST HO

Tested By

SO (Electrical)

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Samriddha Gangopadhyay SO (Electrical)

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SI.	Test Name	Requirements	Test Result	Remarks			
3.	Recovery from sulphation test: (Carried out as per Cl.8.3 of the specification)						
	Discharge duration of	PLICANT LESS HORSE STEETING TAGETHE	Battery marked	करीय ये संभाग शास्त्र			
	battery in Hrs. at 120h rate to an end voltage of 1.9V/Cell	MATONAL TEST HOUSE THE THE	GN3	स्य स्ट्राम्या स्ट्राह्म स्ट्राह्म स्ट्राह्मण साल			
		The battery shall give at least 108 hrs.	133.461				
4.	Water loss on Float (Carried out as per C	Satisfactory					
	nonet the status	THET WATCHER TEST HOUSE THE	Battery marked	HOUSE THE THE			
	Loss of Water (in g/Ah/Battery)	M SHall HOLONG LELHON TO THE	GN4	THE THE			
		18 (Maximum)	12.61	STHOUGH SE THE THE			
5.	Endurance Test: (Carried out as per C	Satisfactory					
	Final Discharge duration in hrs. at C <sub>10</sub>	The cell shall give not	Battery marked	MILES HOUSE SLESS			
		less than 9 Hrs. of discharge at the final test	GN7	SHIP ST HOUSE TO			
	Endurance cycles period of 2000 Hrs.	discharge of the last period of charge.	14.02 Hrs.	MINONAL TEST HOUSE			
6	Cycle Endurance in (Carried out as per C	Satisfactory					
	Capacity in ampere-	At the end of the test the	Battery marked	NATIONAL TEST HE			
	hours (Ah) at C <sub>10</sub> rate	Capacity shall not be less than 80 percent of the	GN8				
	after the phase B.	rated capacity i.e 80Ah.	130.512	THE WATCHAL TEST			

Tested By

Sayantan Das SO (Electrical) Checked By

-sopadhan Samriddha Gangopadhyay

SO (Electrical)

-Approved By

Pradip Kumar Bera Scientist C (Electrical)