

भारत सरकार Government of India राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र) National Test House (Eastern Region) 11/1 जजेस कोर्द् रोड, अलीपुर, कोलकाता - 700 027 11/1, Judges Court Road, Alipore, Kolkata - 700 027

TEST CERTIFICATE

FORM NO : NTH/ALP/F/5



परीक्षण प्रमाण पत्र सं Test Certificate No NTH(ER)/EL(B)/2017/0011 जारी होने की तिथि Date of Esue 09/02/2018 कोड नं Code No 1508841301988

OKAYA POWER PRIVATE LIMITED

पृष्ठ Page 1 पृष्ठों की संख्वा No of Pages

INTERIM/FINAL REPORT

जिसे जारी करना है ssued To

पता Address

ग्राहक का सन्दर्भ सं एवं दिनांक Customer's Ref. No.

पंजिका संपूर्व दिनांक Register No & Date

परीक्षण सामग्री का लिवरण Description of Test tem

परीक्षण सामग्री का पहचान Identification of Test Item

नमुना का विशिष्टि (यदि हों) Product Specification (If any)

नमुना प्राप्ति की तिथि Date of Receipt of the Test Item

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

व्यावद्वत प्रणाली का पहचान Method(s)used for Test

नमुना प्रकिता चही प्रासंगिक हों Sampling Procedure where relevant Email

Date: 25/08/2017

0011/NTH(ER)/EL(B)/27/10/2017

One sample consisting of five nos. stationary Lead Acid Batteries stated to be 12V,40Ah @ C10 rate,Brand:Okaya.

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

Marking: As in the attached sheet "BAT-13369".

Not Applicable.

24/10/2017

From: 01/11/2017 To: 31/01/2018 IS:13369-1992(Amndt. 1 to 3)

Not Applicable.

Tested By Southern Das So Electrical Checked By

দিওক Pradip Kumar Bera Scientist-SB(Electrical)

Approved By Biswa Ranjan Mandal Scientist-SB(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 Collected act and the local terms of the second secon



INTERIM/FINAL REPORT

TEST CERTIFICATE जारी होने की तिथि कोड नं

Code No

पृष्ठ Page 1508841301988 2

पृष्ठी की संख्या No of Pages

SI. No.

परीक्षण प्रमाण पन्न स

Test Certificate No

NTH(ER)/EL(B)/2017/0011

Test Name

Date of Issue

09/02/2018

Test Result

Limit

Interim Report

As in the attached sheet "BAT-13369".

As in the attached sheet

'Final Report' will be issued after completion of 'Endurance Test'. टि पणी Note

केफियत Remarks

The sample so far as it has been examined and tested conforms the requirements of IS:13369-1992 (amends 1 to 3) in respect of tests carried out.

Tested By

8 Dem Sayantan Das **SO Electrical**

Checked By KROM

Pradip Kumar Bera Scientist-SB(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

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Test certificate no NTH(ER)/EL(B)/2017/0011 Date of Issue 09/02/2018 Code No 1508841301988

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"BAT-13369"

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

OKAYA Chalti Rahe Yeh Zindagi SOLAR TUBULAR BATTERY Zindagi Ka Roop Badhaye Shaandar Dhoop ST040H Capacity 40Ah @ C₁₀, Sp. Gr.:1.240±0.005 (27°C)

(ii) Sticker pasted on the body of the Battery : Source of manufacturer : Fujikawa Power

Ah Capacity at 10-h rate: 40Ah Year of manufacturing : 2017 Country of origin : India

(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) Printed on one narrow side :

SOLAR PHOTOVOLTAIC &

OTHER DEEP CYCLING APPLICATIONS

- MAINTENANCE TIPS:
- 1. Normal recharge voltage to be set 2.25 volts per cell (13.5 for 12Volt battery)
- 2. The maximum charging current should not exceed 8 Amps.

3. The Battery should be topped with battery grade distilled water upto the bottom of

the filling spout approximately once in 4-6 months.

DO NOT ADD ACID

CAUTION

- 1. Keep away from sparks, cigarettes, open flame these can cause EXPLOSIONS.
- 2. Contact with ACID from battery, can cause SEVERE BURNS.
 - 3. Keep out of reach of CHILDREN.
- 4. Remove vent caps before INITIAL CHARGING.

Tested By

Dom.

Sayantan Das SO (Electrical) Checked By

Approved By

Pradip Kumar Bera Scientist-SB(Electrical) Biswa Ranjah Mandal Scientist-SB(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



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Page 2 No. of Pages 5

"BAT-13369"

5.Replace with ceramic vent plugs. OKAYA SOLAR MAIN TUBULAR BATTERY

(v) Printed on both narrow sides of the Battery :

Pb CAUTION SHIELD EYES EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY SULPHURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS NO SPARKS, FLAMES, SMOKING FLUSH EYES IMMEDIATELY WITH WATER GET MEDICAL HELP FAST KEEP OUT OF REACH OF CHILDREN STATUTORY WARNING : AFTER USE

- This Battery contains hazardous Lead.
- Do not dispose off after use.
- As per law, after use, this battery must be returned to an authorized dealer.

(vi) Embossed on the top of a Battery : OKAYA HSUZR03602866589

The marking of the other Batteries are same & identical except Nos. HSUZR03602866770, HSUZR03602866816, HSUZR03602866595 & HSUXR03603356551. Five nos. 12V,40Ah Batteries were marked randomly as FO1,FO2,FO3,FO4 & FO5 by this laboratory for identification purpose.

Tested By

Sayantan Das SO (Electrical) Checked By Arso Pradip Kumar Bera Scientist-SB(Electrical)





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Page 3 No. of Pages 5

"BAT-13369"

Tests :

[Carried out as per IS:13369-1992 (Amndt. no.1 to 3) & customer requirements]

SI.	Test Name	Requirements	Test Result				Remarks	
No.	HOUSE TREAT TRANSMIT AND NATIONAL TEST HOUSE TEST HOUSE TRANSMIT AND NATIONAL TEST HOUSE TEST HOUSE TEST HOUSE TO THE MATCHINE TEST HOUSE TO THE MATCHINE TEST HOUSE	Battery marked				TITET NATIONAL		
IONAL T		NATIONAL TEST HOUSE	F01	FO2	FO3	FO4	FO5	DI STIMI NATIO
NATIONA	Verification of marking: (Carried out as per Cl.11.3 of the specification)						Satisfactory	
NATA NATA	a) Indicating the source of manufacturer	The information shall be indelibly and durably marked on the outside of the Battery	Fujikawa Power					प्रतिहोणा शाला प्रतिहोणा शाला
शाला शाला	b) Ah capacity at 10-h rate		12V40Ah	12V40Ah	12V40Ah	12V40Ah	12V40Ah	प्रदेश परीक्षण इ
N 211	c) Year of manufacture		NATEST HOUSE TOTAL 2017 TOTAL TOTAL TEST HOUSE				The far within	
terut a	d) Country of origin	ति परीक्षणा शाला अभाग	India	India	India	India	India	TREAD OTH
त्रीक्ष त्रिक्ष	e)Electrolyte level indicator	राष्ट्रीय गराक्षण शाला N	Opaque container, level indicator provided.				USE TREAT AT	
2	Verifcation of dimensions : (Carried out as per Cl.11.4 of the specification)		Test Result					Satisfactory
And .			Battery marked				ST HOUSE THE	
I CAL	TRAM THAT WETTOWN TEST HOUSE THE A THEM &	F01	FO2	FO3	FO4	FO5	TEST HOUSE	
TR	(i) Length (in mm) :	535 (Max.)	409	408	409	408	409	LAL TEST HOUSE
25 25	(ii) Width (in mm):	295 (Max.)	178	178	179	178	179	ONAL TEST HOUSE
USE	(iii) Height (in mm):	450 (Max.)	248	249	248	248	248	MONAL TEST HOUSE HOL

Tested By

Sayantan Das SO (Electrical) Checked By

Approved By

Pradip Kumar Bera Scientist-SB(Electrical)

Biswa Ranjan Mandal Scientist-SB(Electrical)



शाला

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(B)/2017/0011 Date of Issue 09/02/2018

Code No 1508841301988

"BAT-13369"

Page 4 No. of Pages 5

SI.	Test Name	Requirements	क्षिण साल्म	Remarks				
No.	इन् राष्ट्रीय प्रशेशमा शाल	NATIONAL TEST HOUSE TREAT	Battery marked			TREA LING	HEATT ETTER NATION	
TEST H	USE राष्ट्रीय पराक्षण शा	AT NATIONAL TEST HOUSE TISTA	FO1	FO2 FC	03 FO4	FO5	TOT STORT WAT	
AAL TES ONAL TE TONAL TONAL NATION NATION	First charge: (Carried out as per Cl.10.3 of the specification)	Samples shall be filled with electrolyte and shall be given first charging as per manufacturer's instruction. After full charge specific gravity of electrolyte shall be 1.240±0.005 corrected to 27°C.	condition. per manu	Samples facturer's i electrolyt	were give nstruction.	n fresheni After full c	ng charge a harge specifi	
4 strat	the second secon					INAL TEST HOUS	Satisfactor	
1 2110	Capacity in Shall not be less than the Battery marked					HOUSE TREAM		
Walter i	ampere-hours (Ah) at C ₁₀ rate	rated capacity and more than 130% of the rated		FO3	FO5	HOUSE TTO		
TINT T	corrected to 27°C	capacity & within 10 discharges	48.509 (121.3%)	49.279 (123.2%)	49.193 (123%)	50.831 (127.1%)	TEST HOUSE TH	
5	Ampere-hour & Watt-hour efficiency Test : (Carried out as per CL.11.8 of the specification)					Satisfactory		
	Battery marked					TIONAL TEST HOUS		
aller .		TEST STATE STATE SATE	CALL THE THE	NATIONAL TEST HOU FOI TOTAL TETRATI				
Elister D	(i) Ampere-Hour	Shall not be less than	Mon The		and white the test house and them and			
BUR BUR BUR	(i) Ampere-Hour efficiency:(in %)	Shall not be less than 90%	TIGHT NATION	TEST NO	7 man	TRAIN SILVAN	NATIONAL TEST	

Tested By

Checked By

Approved By

8 pm.

Sayantan Das SO (Electrical) Pradip Kumar Bera Scientist-SB(Electrical)

Biswa Ranjan Mandal Scientist-SB(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



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"BAT-13369"

SI. No.	Test Name	Requirements	Test Result	Remarks		
6	Test for loss of capacity on storage : (Carried out as per Cl.11.6 of the specification)					
	TRATA DELETA STICT NATIONA	TEST HOUSE THE TE TREAT STRAT	Battery marked	त्र प्रतिक्षणा शाला		
STHOU	SE TREAT TRANSPORT TICH NATION	NAL TEST HOUSE TROTA THEM TO THE	FO2 FO3	and astron suc		
ESTH	Loss of capacity (in %) :	Shall not exceed 10%	TAT NA 6 ONAL EST HOUSE	तिहोग वर्गहेला का		
NAL TE	Loss of Water Test : (Carried out as per Cl.11.9 of the specification)					
	TESTHOUSE IT THE THE THE	I NATIONAL TEST HOUSE STRATA TATE	Battery marked	Not state and		
MOITA	Loss of Water	AT NATIONAL TEST HOUSE TRATA THE	FO5 NAL	KOUSE TRAN		
	(in g/Ah/Battery) :	18 (Maximum)	TREAT TIGT TI ANONAL TES	HOUSE TRATA		
8	Test for Equilibrium Float Current : (Carried out as per CI.11.10 of the specification)					
	NATIONAL TEST HOUSE TREPA TO	ATT STEAT NATIONAL TEST HOUSE T	Battery marked	TEST HOUSE T		
alle	Equilibrium Float Current	DTRATT STITUT NATIONAL TEST HOUSE	FO5	ONAL TEST HOUSE		
	(in mA/Ah/Battery) :		the de du Mai	- IN TO GOUDT		

Tested By

Checked By

NUSE TRAN TRAN Approved By

QQ-00 Sayantan Das SO (Electrical)

Pradip Kumar Bera Scientist-SB(Electrical)

Biswa Ranjan Mandal Scientist-SB(Electrical)





भारत सरकार **Government of India** राष्ट्रीय परीक्षण शाला (पुवी क्षेत्र) National Test House (Eastern Region) 11/1 जजेस कोर्ट रोड, अलीपुर, कोलकाता - 700 027 11/1. Judges' CHARLEN ANTOLENK MARA - 700 027

TEST CERTIFICATE

पुष्ठ Page



परीशण प्रमाण पत्र सं Test Certificate No NTH(ER)/EL(B)/2017/0011

Date of Issue 23/03/2018

1508841301988

OKAYA POWER PRIVATE LIMITED

0011/NTH(ER)/EL(B)/27/10/2017

पृष्ठी की संख्वा No of Pages

Date: 25/08/2017

जिसे वारी करना है Issued To

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

One sample consisting of five nos stationary lead acid

Marking: Refer "Interim Test Certificate" vide

no.NTH(ER)/EL(B)/2017/0011 dated:09/02/2018.

batteries stated to be 12V,40Ah @ C10 rate,Brand:Okaya

पता **Address**

ग्राइक का सन्दर्भ सं एवं दिनांक Customer's Ref. No.

पंजिका सं प्रवं दिनांक Register No & Date

परीक्षण सामग्री का जिवरण Description of Test tem

परीक्षण सामगी का पहचान Identification of Test Item

नम्ना का विशिष्टि (यदि हों) Product Specification (If any)

नगुना प्राप्ति की तिथि Date of Receipt of the Test term

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

व्यावद्वत प्रणाली का पहचान Method(s) used for Test

नम्ना प्रकिता जहाँ प्रासंगिक हो Sampling Procedure where relevant

> **Tested By** Son Sayantan Das **SO** Electrical

Checked By testo Pradip Kumar Bera Scientist- B (Electrical)

Approved By N11 Biswa Ranjan Mandal Scientist- B (Electrical)

22/03/2018

To:

Not Applicable.

24/10/2017

From: 01/11/2017 IS:13369-1992(Amndt.1 to 3)

Not Applicable.

जारी होने की तिथि

Email

कोड नं Code No.

National Test H 1/1 जजेस कोर्ट रोड, 11/1, Judges' CAUK TEST C जारी होने की तिधि Date of Esue 23/03/2018 st Name	म शाला (पूर्वी क्षेत् ouse (Eastern Region अलीपुर, कोलकाता - 700 अस, आत्माएफ सत्नि - 700 व DERTIFICATE कोड नं Code No 1508841301988 Test Result As in the attached sheet "BA 13369".	n) 0 027 027 INTERIM/FINAL REPORT पृष्ठ पृष्ठों की संख्वा Page No of Pages 2 2 Limit
National Test H 1/1 जजेस कोर्ट रोड, 11/1, Judges' CAUK TEST C जारी होने की तिधि Date of Esue 23/03/2018 st Name	ouse (Eastern Region अलीपुर, कोलकाता - 700 अस, आत्राष्ट्रास्त्रात्व - 700 C CERTIFICATE कोड नं Code No 1508841301988 Test Result As in the attached sheet "BA	n) 0 027 027 INTERIM/FINAL REPORT पृष्ठ पृष्ठों की संख्वा Page No of Pages 2 2 Limit
1/1 जजेस कोर्ट रोड, 11/1, Judges' CHiele TEST C जारी होने की तिथि Date of Esue 23/03/2018 st Name	अलीपुर, कोलकाता - 700 अस, आग्राएफस्जिब - 700 CERTIFICATE कोड नं Code No 1508841301988 Test Result As in the attached sheet "BA	0 027 DET INTERIM/FINAL REPORT पृष्ठ पृष्ठों की संख्या Page No of Pages 2 2 Limit
11/1, Judges' CHING TEST C जारी होने की तिथि Date of Esue 23/03/2018 st Name	अस्य आत्मार सित्सब - 700 0 CERTIFICATE कोड नं Code No 1508841301988 Test Result As in the attached sheet "BA	027 INTERIM/FINAL REPORT पृष्ठ पृष्ठों की संख्वा Page No of Pages 2 2 Limit
जारी होने की तिथि Date of Esue 23/03/2018 st Name	कोड नं Code No 1508841301988 Test Result As in the attached sheet "BA	पृष्ठ पृष्ठों की संख्या Page No of Pages 2 2 Limit
Date of Issue 23/03/2018 st Name	Code No 1508841301988 Test Result As in the attached sheet "BA	Page No of Pages 2 2 Limit
23/03/2018 st Name	1508841301988 Test Result As in the attached sheet "BA	
st Name	Test Result As in the attached sheet "BA	गर्भाव प्रशेशना झाला । १४१०१४८ १६५१ गर्भाव प्रशेशना झाला । १४१०१४८ १६५१ जन्म
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	ATISTIC STREAM NATIONAL TEST HOUS	13369".
al Report As	s in attached sheet <mark>"BAT-133</mark>	369". As in attached sheet "E 13369".
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NATIONAL TEST HOUSE	TETRA RETERM STICAL NATIONAL T	ESTHOUSE TROM TREAM TIME
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The sample so far as	it has been examined and	tested meets the requirement
S:13369-1992 (amend	s 1 to 3).	TOWAL TEST HOUSE TIRE THE PORT
TOT STIFT WATCHAL TEST H	HOUSE TRATT DE TRATE	
RTHAT THEAT NATIONAL TES	THOUSE TREAT STRAM STRAM	NATIONAL TEST HOUSE TREAM PARE
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	he sample so far as S:13369-1992 (amend	he sample so far as it has been examined and S:13369-1992 (amends 1 to 3).

Tested By Soley Sayantan Das SO Electrical

INNA TEST HOUSE DONAL TEST HOUSE Checked By

Right Pradip Kumar Bera Scientist- B (Electrical)

राष्ट्रीय सरीवला व राष्ट्रीय स्टोबला पर्राक्षमा सार Approved By ST HOUSE BUL

Biswa Ranjan Mandal Scientist- B (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(B)/2017/0011 NATIONAL TEST P NATION

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Date of Issue 23/03/2018 NATIONAL

राखना जा Code No 1508841301988

Page 1 No. of Pages 1

"BAT-13369"

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Ta	A MARTINE MARTINE MARTINE	369-1992 (Amndt. no.1 to 3)]	NATIONAL TEST HOUSE 20 TRATA GATERAN STICH	NATIONAL TEST HOUSE		
SI. No.	Test Name Another	Requirements	Test Result	Remarks		
USE	राष्ट्रिय परीक्षण साल्मा भया	ONAL TEST HOUSE TRATA TRANST	Battery marked F01 F02 F03 F04 F05	TICHT NATIONAL TES		
HOUSE	Verification of constructional requirements : (Carried out as per Cl.11.2 of the specification)					
EST HO TEST	(i) Electrolyte level Indicator :	Each cell shall be provided level indicator	Level Indicators provided in each case.	Rem atten NATO		
NAL TES	(ii) Terminal Posts:	Positive and negative terminal posts shall be clearly and unmistakably identifiable	Positive and negative terminal posts were clearly embossed in each case.	त्व प्रदेशिमा शाला अप्र त्व प्रदेशिमा शाला अप्र		
NATIONA NATION	(III) Connections:	Shall be made of lead plated aluminium/copper strips or of flexible cables	Lead plated in each case.	राष्ट्रीय मरीक्षणा वाला		
TI NA	(iv) Terminal Connectors , Nuts & Bolts	Shall be effectively lead coated	Lead coated in each case.	राष्ट्रीय प्रतिमा इन् राष्ट्रीय प्रतिमा		
2.1	Endurance Test : (Carried out as per Cl.11.7 of the specification)					
	Final Discharge	The battery shall give not less	Battery Marked	STHOUSE THETA		
Paral .	rate at the end of the	than 9 Hrs.of discharge at the final test discharge of the last	EST HOUSE TRANK FOAM TRANS	TEST HOUSE TTO		
12/18/		period of charge	14,28 Hrs. and Manon	IL TEST HOUSE T		

Tested By Spon . Sayantan Das SO (Electrical)

राष्ट्रीय प Checked By

ABM Pradip Kumar Bera Scientist-B(Electrical)

Approved By 201 Biswa Ranjah Mandal Scientist-B(Electrical)