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NISE

National Institute of Solar Energy

(An Autonomous Institution of MNRE, GOI)  
19 K.m Stone, Gurgaon-Faridabad Road, Gwal Phari, Gurgaon (Haryana)-122003

File No: 100/2015-16 /CSC/NISE

Dated: 14-9-15

To,  
M/S. Su-Ram Power Systems  
Ltd. Plot No. 54, Udyog Vihar  
Phase-VI, Sector-37, Gurgaon-  
122001, Haryana

Subject: Issue of Test Report by National Institute of Solar Energy ('NISE')

Dear Sir,

Please refer to your letter No./Order Form No. 6 Dated 14-8-15. In this connection, I am directed to enclose herewith the Test Report No : 10/15/BT/NISE Dated 11/9/15. In respect of your submitted samples in original, for ready reference and record.

2. Discrepancies, if any observed, in respect of any of the entries contained in the above report should be brought to the notice of this office within 30 days from the date of issue of this letter, failing which it will be presumed that the entries therein are in order and no further correspondence will be entertained thereafter on this particular report.
3. We would like to solicit your views and therefore enclosing a Feedback Form with a request to be filled up by you and then send as soon as possible. Your suggestions are valuable for us to make our further improvements and take corrective action in improving our quality of service.
4. Further, You are also requested to collect your samples at your cost within 30 days, from the date of issue of this letter falling which NISE will dispose of the sample in best possible manner and NISE will not be responsible in any manner for this sample.

Kindly acknowledge the receipt of this letter along with original test report and original Invoice.

Yours faithfully

(In-charge, Customer Service Cell)  
(National Institute of Solar Energy)



Encl:

1. Test Report-Total Page 3
2. Feedback Form

Copy forwarded for Information to:

1. PA to Director General-NISE
2. Guard File
3. Office Copy

**National Institute of Solar Energy**  
 (Formerly known as Solar Energy Centre)  
 (An autonomous institute of Ministry of New & Renewable Energy)  
 Village & Post-Gwalpahari, Dist.-Gurgaon, (Haryana), Pin - 122003  
 Ph. 0124-2579251 (CSC), Fax: 0124-2579207

2015-2016

### TEST REPORT ON BATTERY

Sample ID No. 10/15/BT

Manufactured by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,  
 Phase VI, Sector-37, Gurgaon-122001, Haryana

Submitted by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,  
 Phase VI, Sector-37, Gurgaon-122001, Haryana

This is a report on measurements of **Capacity rating, Charge efficiency & Self Discharge** carried out on the battery (sample no. 10/15/BT) submitted at National Institute of Solar Energy as per **IS 13369:1992** standard. **The data reported in this TEST REPORT are valid at the time of and under the stipulated conditions of measurement and the test results are applicable to this battery only and do not apply to other batteries even though declared to be identical.** The data contents in this report do not constitute a qualification test certificate. NISE does not accept any liability for any consequences including commercial or otherwise arising out of the utilization of the information contained in this report.

The Test Report, if reproduced for any purpose, commercial or otherwise, should be reproduced in full. The contents of the report can be published only after a written approval from the Director General, NISE. This report consists of 3 pages.

*Manish*  
11/09/15

*Rajesh Kumar*  
11/09/15



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## TEST REPORT OF LEAD ACID BATTERY

Sample ID No. 10/15/BT

Manufactured by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,  
Phase VI, Sector-37, Gurgaon-122001, Haryana

Submitted by : M/s Su-Kam Power Systems Ltd., Plot No.54, Udyog Vihar,  
Phase VI, Sector-37, Gurgaon-122001, Haryana

S.No	Test Description	Manufacture's Claim	Observations	Remarks
1	(I) Brand/Model (ii) Type (iii) S.No. (iv) Year (v) <u>Rating</u> (a) Voltage (b) Capacity at C10 discharge rate (vi) Dimension (mm) (vii) Weight before testing (kg)	Su-Kam/STB75 Lead Acid MSVOG00001 2015  12V 75Ah  515x215x250 37.5Kg	Su-Kam/STB75 Lead Acid MSVOG00001 2015  12V 86.6Ah  525x215x255 38Kg	cut off voltage 10.8 V
2	<b>Charging Efficiency:</b> (A) Capacity on discharging at (C 10) constant current continuously up to cut off voltage. (B) Capacity after recharging the battery by 84.2Ah and then again discharging up to cut off voltage. (C) Efficiency-Ah & Wh		84.2Ah  79Ah  93.82% & 79.57%	Average Charging Voltage =14.16V  Average discharging voltage =12.01V

*Manish*  
11/09/15

*Rajesh Kumar*  
11/09/15



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3	<b>Self-discharge test:</b>  (A) Initial Capacity on discharging at (C 10) constant current continuously up to cut off voltage. (B) Final Capacity after keeping 28 days in 27 ±5 deg.C temperature.  (C) Self Discharge (%)		80.8Ah  79.66Ah  1.41%
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Prepared by: Manish  
 Date : 11/09/15

Rajendra Kumar  
 11/9/15

Approved by:  
 Date:



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