

SOLAR • INVERTER • AUTOMOBILE • UPS BATTERIES

IT'S NOT A **POWER**
IT'S MUCH **MORE**

JAPANESE TECHNOLOGY

HSB[®]

HEAVY DUTY BATTERY



RECYCLABLE

**PILLARS OF OUR
SUCCESS
ARE OUR
UNCOMPROMISING
QUALITY & DELIGHTED
CUSTOMERS.**

ABOUT US

A sunny day always looks beautiful, cheerful and a good start because it is brightened with the rays of sun. It's the power and strength of the sun which has set the motion of our life. Taking inspiration from the sun god, HSB started our journey, changing the face of human lives by adding power to it. We are in the business of carving power, adding motion to life with our revolutionary product HSB Batteries. HSB the name cherishes years of glorious success and takes pride on having no close substitute in the market. We have remained tall, firm leader of the battery industry, serving our esteemed clients since 1993, while maintaining national and international standards like ISO 9001 : 2008. Today we are a household name for all. We have been the catalyst behind smooth operation of Solar, Inverter, Automobile , Ups Batteries. The pillars of success have been reared up with incredible passion and hard work of our extremely talented workforce, our technicians and planners. Our dedicated research team has kept the wheel moving, by constantly innovating new power packed batteries. Our stringent quality meeting manufacturing processes under the vigilant observation of experts ensure our superior standard of quality. Highly skilled quality check professionals have maintained a close observation at every level of production from raw material testing till testing the finished product. Our batteries go through rigorous tests and merciless conditions at every step of production before reaching out to our end users. Today sky is not the limit for us. It's just a beginning. Still we have a long way to go.



INNOVATION IS OUR PASSION

OUR VISION

We are dedicated towards changing the scenario of battery industry in India and introduce the best batteries to the world. We not only wish to be the global leader, but also make each Indian proud of us and take HSB's name in the world map.

OUR MISSION

Our mission is to create a revolutionary brand worldwide, evolve as the world's leading provider of superior electrical energy storage solutions while continuing innovation of superior state-of-the-art technologies. We take pledge to work towards it with full vigour, passion, dedication, honesty and good faith.



FACI LITIES



Apart from the investments we make in getting the best people, we also make it a point to provide them with the best manufacturing, engineering & service facilities that are outlined below.

- Oxide manufacture to finished battery dispatch in one complex.
- Automation at every possible process & in all critical areas.
- World class integrated facilities.
- Full fledged calibration & chemical lab to correct instruments & check material purity.
- Futuristic ambiance.
- State-of-the-art technology.
- Diagnostic service.





HSB batteries undergoes severe test like high rate discharge, shear test, air pressure test, capacity test, etc. during the process and assembly.

HSB high quality factory charged batteries have been developed according to international standard. HSB batteries maintains strong R&D department, 1/3rd of the staff is active engineering, Quality and innovations are our specialties. Customer are always assured of advanced design, superior quality and competitive pricing. Stringent quality test are carried out at all stages of manufacturing. HSB has a staff of more then 65 peoples with the latest manufacturing machines like

- advanced automatic grid and spine casting machines.
- Advanced automatic battery heat sealing plant.
- Automatic lead oxide plant
- Temperature and humidity controlled plate curing chambers.



CERTIFICATES

Test Report No. 37-09-BT/SEC



Govt. of India
Ministry of New & Renewable Energy
Solar Energy Centre
P.O. & Village Gwalpahari, Distt. Gurgaon
Haryana, India

2009-2010

TEST REPORT
ON
BATTERY

The Industry are the Manufacturers of Batteries

Sample ID No. 37-09-BT.
Manufactured by: M/s Hitech Storage Batteries, Ghaziabad

Submitted by: M/s Hitech Storage Batteries, Ghaziabad

This is a report on measurements of Capacity rating test carried out on the battery (sample no. 37-09-BT) submitted at Solar Energy Centre as per IEC 61427 and IS 13369:1992 standards. 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. SEC 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 Adviser & Head, SEC. This report consists of 2 pages.

Test Report No.	Total No. of pages	Page No.
37-09-BT/SEC	2	1

Phone : 2412626 S.No. 8634



DEPARTMENT OF INDUSTRIES HARYANA
GOVT. QUALITY MARKING CENTRE
for ELECTRICAL GOODS
N.H.-IV, I.T.I. COMPLEX, FARIDABAD-121001 (INDIA)

Test Certificate

No. QML/12/13722 Dated: 31-7-2004

Name of the Article: Lead Acid Storage Batteries FOR MOTOR VEHICLES 180AH.

Submitted by: M/s Hi-Tech Storage Batteries 9-35 Sonu-ld of G.T. Road, Industrial Area Ghaziabad (UP)

Name of Manufacturer: - - - -

Sample No./Marking: QML/74 (LH-1 to LH-6), HSB, 12V, 180AH, 25 Plates, 6 Cells, Made in India.

Letter Code No. H11 dated 20-5-2004

Certified that the above mentioned article (s) has/have been tested in the Centre for the following test as per specification No. 3732-1995 with latest Amendments and the result of test are as under:-

S. No.	Nature of Test	Clause No.	Test requirements	Results
1.	Physical Examination	9.3	shall comply with the requirements of cl. 9.3. 6 all the six Batteries LH-1 to LH-6	Satisfactory
2.	Dimension & Layout	9.4 Table-1	shall comply with the requirements of cl. 10. 6 all the six Batteries LH-1 to LH-6 Length Max 525mm Width Max 295mm Height Max 250mm Over all height Max 255mm	525x295x245mm 295x295x245mm 245x295mm 253x295mm
3.	Markings	9.5	shall comply with the requirements of cl. 25 Plates 6 Cells. 6 all the six Batteries LH-1 to LH-6.	HSB 12V 180AH, 25 Plates 6 Cells

Remarks: 1. The Certificate refers only to the particular article submitted for test.
2. The Certificate should not be reproduced in full or in an abstract from without obtaining prior written permission from this Centre.
3. The use of test report for publicity or as evidence in legal dispute is forbidden.
4. The test report is valid for a period of one year from the date of issue.

8634 -2- (Continuation Sheet)

S. No.	Nature of Test	Clause No.	Test Requirements	Results
4.	Air Pressure tests	9.6	shall comply with the requirements of cl. 10. 6 all the six Batteries LH-1 to LH-6	Passes the test
5.	Capacity test at 27°C	9.7	shall comply with the requirements of cl. 10. 9.7 all the six Batteries LH-1 to LH-6 LH-1 180AH 102.4 AH LH-2 180AH 101.5 AH LH-3 180AH 100.6 AH LH-4 180AH 100.6 AH LH-5 180AH 100.4 AH	
6.	Vibration tests	9.8	shall comply with the requirements of cl. 10. 9.8 on all six Batteries	Passes the test
7.	High rate discharge at normal temp.	9.9 Table 4	shall comply with the requirements of cl. 10. 9.9 all the six Batteries LH-1 to LH-6 at 540amps and 27°C. LH-1 Min 5 Min 30secs 5 Minutes 45 Seconds LH-2 " " 5 Minutes 50 " " LH-3 " " 5 Minutes 40 " " LH-4 " " 5 Minutes 55 " "	
8.	High rate discharge test at 40°C	9.10 Table 6	shall comply with the requirements of cl. 10. 9.10 all the six Batteries LH-1 to LH-6 at 540amps and 40°C. LH-1 Min 4 Minutes 4 Minutes 50 seconds LH-2 Min 4 Minutes 4 Minutes 45 " "	
9.	Retention of charge test at 27°C	9.12	shall comply with the requirements of cl. 10. 9.12 on two Batteries and loss of capacity shall not exceed 20% LH-1 180AH 148.5AH (17.2%) LH-2 180AH 148.0AH (16.9%)	
10.	Resistance to over charge test at 40°C	9.13	shall comply with the requirements of cl. 10. 9.13 High rate discharge at 540amps on two Batteries.	

8634 -3- (Continuation Sheet)

S. No.	Nature of Test	Clause No.	Test Requirements	Results
			LH-3 Min 4 Minutes 4 Minutes 30 seconds LH-4 Min 4 Minutes 4 Minutes 34 " "	
			Final Cycle LH-3 Min 4 Minutes 4 Minutes 40 seconds LH-4 Min 4 Minutes 4 Minutes 45 " "	
			Final cycle LH-3 Min 4 Minutes 4 Minutes 35 seconds LH-4 Min 4 Minutes 4 Minutes 40 " "	
			IV Cycle LH-3 Min 4 Minutes 4 Minutes 50 seconds LH-4 Min 4 Minutes 4 Minutes 45 " "	
11.	UL 28 tests	9.14	shall comply with the requirements of cl. 10. 9.14 High rate discharge at 540amps on 2 Batteries. 1st Unit LH-1 Min 4 Minutes 4 Min 35 Seconds LH-2 Min 4 Minutes 4 Min 30 " " Final Unit LH-1 Min 4 Minutes 4 Min 35 Seconds LH-2 Min 4 Minutes 4 Min 40 " " Final Unit LH-1 Min 4 Minutes 4 Min 45 Seconds LH-2 Min 4 Minutes 4 Min 50 " "	

Remarks: One sample consists of 6 plates of Lead Acid Storage Battery and results shown in the test report are confirmed as per IS 7372-1995

Tested by: 

Checked by: 

Deputy Director:
Govt. Quality Marking Centre
For Electrical Goods
Faridabad-121001

CERTIFICATES

**TEST REPORT
OF
LEAD ACID BATTERY**

Sample ID No. 29-09-BT

Manufactured By: M/s Hitech Storage Batteries, Ghaziabad

Submitted By: M/s Hitech Storage Batteries, Ghaziabad

S.No	Test Description	Manufacturer's Claim	Observations	Remarks
1	(i) Make (ii) Type (iii) Type & S No. (iv) Year (v) Rating (a) Voltage (b) Capacity at C10 discharge rate (vi) Dimension (mm) (vii) Weight before testing (kg)	Hitech Lead Acid Tubular/4001 2009 12V 40Ah - 300x163x200	Hitech Lead Acid Tubular/4001 2009 12V 53.7Ah 300x163x200 24.570	At cut of voltage of 11.10V
2	Charging Efficiency:	-	-	-

Prepared by: *Arvind K. Pandey*

Approved by: *P. C. Pan* Issued by: *Arvind K. Pandey*

Test report No.	Total No. of pages	Page No.
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**TEST REPORT
OF
LEAD ACID BATTERY**

Sample ID No. 37-09-BT

Manufactured By: M/s Hitech Storage Batteries

Submitted By: M/s Hitech Storage Batteries, Ghaziabad

S.No	Test Description	Manufacturer's Claim	Observations	Remarks
1	(i) Make (ii) Type (iii) Type & S No. (iv) Year (v) Rating (a) Voltage (b) Capacity at C10 discharge rate (vi) Dimension (mm) (vii) Weight before testing (kg)	HSE Lead Acid Tubular/SG178 2009 12V 75Ah - 410x165x185	HSE Lead Acid Tubular/SG178 2009 12V 68.70Ah - 31.26	At cut of voltage of 11.1V

Prepared by: *Arvind K. Pandey*

Approved by: *P. C. Pan* Issued by: *Arvind K. Pandey*

Test report No.	Total No. of pages	Page No.
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NSIC THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

Branch Office Noida

NSIC/NDA/GP/1000/99 DATE: 14.10.2009

ENCLOSURE OF THE REGISTRATION NO NSIC/NDA/GP/IS/97/IN-647

M/S. HI-TECH STORAGE BATTERIES
S-35, SOUTH OF G.T. ROAD,
INDUSTRIAL AREA,
GHAZIABAD

FACTORY ADDRESS:
S-35, SOUTH OF G.T. ROAD,
INDUSTRIAL AREA,
GHAZIABAD

S.K.	Name of Stores	Specifications	Qualitative Capacity	Qty Cap. : Per Month as Single Shift from 5000 Nos. of assorted size OR
1.	Lead-Acid Storage Batteries for Motor Vehicles	IS:7572:1992 amendment No. 1 & 2	a) 6 Volt range 100 Ah to 150 Ah b) 12 Volt range 40 Ah to 250 Ah	5000 Nos. of assorted size OR
2.	Stationary Lead-Acid Batteries (with Tubular Positive Plates) in Machine Container	IS:13369:1992	a) 6 Volt 20 Ah to 200 Ah b) 12 Volt 20 Ah to 150 Ah	5000 Nos. of assorted size OR
3.	Stationary Cells and Batteries, Lead-Acid type (with Tubular Positive Plates)	IS:1651:1991	2 Volt Cells, 20 Ah to 200 Ah	5000 Nos. of assorted size OR
4.	Lead-Acid Batteries for Traction Lighting and Air conditioning Service	IS:6848:1976 amendment No. 1 to 5	24 Volt, 210 Ah to 325 Ah	5000 Nos. of assorted size

Authorized Signatory

NSIC THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Government of India Enterprise)

Branch Office Noida

GOVERNMENT PURCHASE ENLISTMENT CERTIFICATE

(Valid for 2 Years from the date of issue)

Ref. No. NSIC/ NDA/GP/1000/99 Date: 14.10.2009

M/S. HI-TECH STORAGE BATTERIES
S-35, SOUTH OF G.T. ROAD,
INDUSTRIAL AREA,
GHAZIABAD

FACTORY ADDRESS:
S-35, SOUTH OF G.T. ROAD,
INDUSTRIAL AREA,
GHAZIABAD

Name of the Proprietor/ Partners / Directors: **SILSAMIT BARBAR**

Certificate of Registration under Single Point Registration Scheme units registered under this scheme are considered to be at par with those Registered directly with DGS & D.

CONSTITUTION CODE: **04**

GOVERNMENT PURCHASE REGISTRATION NO.: NSIC/ NDA/GP/IS/97/IN-647

TURNOVER (in Rupees) MONETARY LIMIT:

Your name has been registered as a SSI Unit eligible for participation in the Central Government Store Purchase Programme as per the Single Point Registration Scheme for the following items / Stores.

Name of the Stores	Specification	Quantitative Capacity	Quantitative Capacity P.M.
AS PER LIST ENCLOSED			

Authorized Signatory

WE IGNITE THE REVOLUTION IN
BATTERY INDUSTRY





12 MONTHS

AH	MODEL	PLATE	CONTAINER
160 Ah	HTF 1600	Flat Plate	Normal
190 Ah	HTF 1900	Flat Plate	Jumbo



18 MONTHS

AH	MODEL	PLATE	CONTAINER
165 Ah	HTF 1650	Flat Plate	Normal
195 Ah	HTF 1950	Flat Plate	Jumbo
Tubular 150 Ah	HTT 1500	Tubular	Normal
Tubular 160 Ah	HTT 1600	Tubular	Jumbo
Tubular 195 Ah	HTT 1950	Tubular	Jumbo



24 MONTHS

AH	MODEL	PLATE	CONTAINER
Tubular 150 Ah	HTT 15000	Tubular	Normal
Tubular 160 Ah	HTT 16000	Tubular	Jumbo
Tubular 180 Ah	HTT 18000	Tubular	Jumbo
Tubular 150 Ah	IT 500	Tubular	IT
Tubular 180 Ah	IT 500	Tubular	IT



30 MONTHS

AH	MODEL	PLATE	CONTAINER
Tubular 180 Ah	HTT 18000	Tubular	Jumbo
Tubular 150 Ah	IT 500	Tubular	IT
Tubular 180 Ah	IT 500	Tubular	IT



36 MONTHS

AH	MODEL	PLATE	CONTAINER
Tubular 170 Ah	HTT 17000	Tubular	Jumbo
Tubular 180 Ah	HTT 18000	Tubular	Jumbo
Tubular 180 Ah	IT 500	Tubular	IT



HSB
HEAVY DUTY BATTERY

EXPERIENCE NEW DIMENSION IN **HSB** LED TV's



LED 32" HSB - S32000

LED-Brilliant LED backlighting display delivers crystal-clear images, true blacks and the most vivid, life-like colors on a film screen.

USB movie—simply connect your USB or external hard drive to the USB port to play its contents on your TV screen.

Smart energy saving
2 channel speaker system

HSB

LED TV's



HSB - S24000

LED 24"

LED-Brilliant LED backlighting display delivers crystal-clear images, true blacks and the most vivid, life-like colors on a film screen.

USB movie-simply connect your USB or external hard drive to the USB port to play its contents on your TV screen.

Smart energy saving
2 channel speaker system



HSB - S21000

LED 21"

LED-Brilliant LED backlighting display delivers crystal-clear images, true blacks and the most vivid, life-like colors on a film screen.

USB movie-simply connect your USB or external hard drive to the USB port to play its contents on your TV screen.

Smart energy saving
2 channel speaker system



HSB - S16000

LED 16"

LED-Brilliant LED backlighting display delivers crystal-clear images, true blacks and the most vivid, life-like colors on a film screen.

USB movie-simply connect your USB or external hard drive to the USB port to play its contents on your TV screen.

Smart energy saving
2 channel speaker system



NO FLAMES



LOW MAINTENANCE



HIGH PERFORMANCE



ECO FRIENDLY

HSB[®]
HEAVY DUTY BATTERY

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