



TROPICANA

ISO 9001:2008, ISO 14001:2004 Certified Company



Certificate of Registration

(Quality Management System)

KVQA CERTIFICATION SERVICES PVT. LTD.

This is to certify that the Quality Management System of

TROPICANA ENTERPRISES PVT. LTD.

**H.O.-A-232, Okhla Industrial Area, Ph-I,
New Delhi-110020, India.**

Has been found to be of the Quality Management System Standard

NS-EN ISO 9001:2008/ISO 9001:2008

This Certificate Is Valid For the Following Product or Service Range

**Design, Manufacturing, Sales, Installation & Service Of
Various Types Of Power Equipments and Accumulators
including Storage Batteries, Telecom & IT Equipment For
Various Individual, Institutional And Industrial
Applications With After Sales Service.**

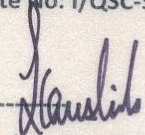
1st Surveillance Due On: 06/07/2012 Done On:

Date of Issue: 06; August, 2011

2nd Surveillance Due On: 06/07/2013 Done On:

Valid until: 05, August, 2014*

Certificate No: I/QSC-5267

Issued by:  .
Authorised signatory KVQA



The certification scope is accredited by the Norsk Akkreditering of Norway with reference to the Parliamentary Proposition on 106 (1989/90) and Norsk Akkreditering's the status laid down in Royal Decree of 7th October 1993

Accredited by a member of IAF's MLA for Quality Systems
F-300, Sector-63, Noida U.P, India Ph.: 0120-4601100 email : kvqa@satyam.net.in
*Subject to successful completion of surveillance audits.

Tropicana Enterprises Pvt Ltd, A-232, Okhla Industrial Area, Ph-I, New Delhi-110020, India

☎: +91-11-26810258, 26810468, Fax: +91-11-26810260, E mail: sales@tropicana-power.com, Web: www.tropicana-power.com



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Certificate of Registration

(Environment Management System)

KVQA CERTIFICATION SERVICES PVT. LTD.

This is to certify that the Environment Management System of

TROPICANA ENTERPRISES PVT. LTD.

**H.O.-A-232, Okhla Industrial Area, Ph-I,
New Delhi-110020, India.**

Has been found to be of the Environment Management System Standard

NS-EN ISO 14001:2004/ISO 14001:2004

This Certificate Is Valid For the Following Product or Service Range

**Design, Manufacturing, Sales, Installation & Service Of
Various Types Of Power Equipments and Accumulators
including Storage Batteries, Telecom & IT Equipment For
Various Individual, Institutional And Industrial
Applications With After Sales Service.**

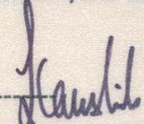
1st Surveillance Due On: 06/07/2012 Done On:

Date of Issue: 06, August, 2011

2nd Surveillance Due On: 06/07/2013 Done On:

Valid until: 05, August, 2014*

Certificate No: I/ESC-201

Issued by: 
Authorised signatory KVQA



The certification scope is accredited by the Norsk Akkreditering of Norway with reference to the Parliamentary Proposition on 106 (1989/90) and Norsk Akkreditering's the status laid down in Royal Decree of 7th October 1993

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Certificate of Compliance



We hereby declare that the technical file of product complied with the requirement of directives 2006/95/EC Low Voltage Directive & 2004/108/EC Electromagnetic Compatibility Directive.

Certificate No.: CE-1202

Manufacturer
Name : Tropicana Enterprises Pvt. Ltd.
Address : A-232, Okhla Industrial Area, Phase-I, New Delhi-110020, India

Product : Batteries, UPS, Invertors, Chargers and other Power Conditioning Equipments & Solar off Grid Systems

Conformity Assessment : Conformity to applicable procedure of above stated EU Directives

Applicable standards : EN 50178-1998, EN 61000-6-1:2006, EN 61000-3-2:2006, EN 55014-1:2006, EN 55014-2+ A1:2001, EN 60335-1:2008, EN 60335-2-29:2005, EN 50091-2:1996, EN 50081-1:1994, EN 61000-4-2/-3-4, EN 61000-3-2, IEC 60529, IEC 60487-4, IEC 60050-195

Complies with the requirements applicable to it

The Certification body has performed an audit of the above product quality system covering the design, manufacture and final inspection of the certified product. The quality system has been assessed, approved and is subject to continuous surveillance according to Directive 2006/95/EC Low Voltage Directive & 2004/108/EC Electromagnetic Compatibility Directive.

This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type examination procedures, if requested.
2. The certificate remains valid until the manufacturing conditions or the quality systems are changed.
3. The certificate validity is conditioned by positive results or surveillance audits.
4. The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of one sample of above mentioned product. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at www.ukcertifications.co.uk/verify

Date of initial registration	20 th June 2012
Date of this certificate	20 th June 2012
Certificate expiry	19 th June 2013
Recertification due (subject to the company maintaining its system to the required standard)	19 th June 2014

David
Authorised Signatory



This certificate is the property of UK Certification & Inspection Limited and shall be returned immediately on request.
5 Jupiter House, Calleva Park, Aldermaston, Reading Berkshire RG7 8NN. UK
Website:- www.ukcertifications.co.uk

Tropicana Enterprises Pvt Ltd, A-232, Okhla Industrial Area, Ph-I, New Delhi-110020, India

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CPRI

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Sheet 1 of 4

TEST REPORT

Test Report Number : 006EATDBT11S0095 **Dated** : 06.01.12

Name & Address of the Customer : M/s Tropicana Enterprises Pvt Ltd
A-232, Okhla Industrial Area, Phase-I,
New Delhi-110020

Name & Address of the Manufacturer : M/s Tropicana Enterprises Pvt Ltd
A-232, Okhla Industrial Area, Phase -I,
New Delhi-110020

Particulars of sample tested
Condition of the sample on Receipt : New
Type : 12V, 7.2 Ah
Designation : SMF Battery
Serial Number : --- Nil ---
Number of Samples Tested : One
Date(s) of test (s) : 11.08.11 to 29.09.11
CPRI Sample Code No : EATDBT11S0095

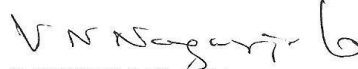
Particulars of test Conducted
Test in accordance with Standard/ Specification : 1) Capacity 2) High rate Discharge Characteristics
3) Maximum permissible current 4) Charge acceptance
after deep discharge As per JIS C 8702 – 1:2003

Sampling Plan : Not Applicable
Customer's requirement : --- Nil ---
Deviations if any : --- Nil ---

Names of the witnessing persons
Customer's representatives : --- Nil ---
Other than Customer's representatives : --- Nil ---
Test Subcontracted with address of the laboratory : None

Documents constituting this report (In words)
Number of sheets : Four Only
Number of oscillograms : --- Nil ---
Number of graphs : --- Nil ---
Number of photos : --- Nil ---
Number of Test circuit Diagrams : --- Nil ---
Number of drawings : --- Nil ---


(A.LOURDHUNADHAN)
Test Engineer


(NAGARAJA RAO . V.N.)
Joint Director

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Test Report No. 006EATDBT11S0095

Dated. 06.01.12

Sheet 2 of 4

TEST RESULT

Sl. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained
1.	Capacity	Clause: 5.1 & 7.1 The Battery shall reach at least 100% of the rated capacity(7.2Ah) within 5 cycles when charge and discharge cycle is repeated.	The capacity of the Battery First Cycle = 7.43 Ah
2.	High Rate Discharge characteristics	Clause: 5.2 & 7.2 The minimum discharge time of the battery shall be 27minutes at 9.6 volts, when discharged at $20 \times I_{20}$ Amps (7.2 A).	Discharge Time 41minutes 22seconds.
3.	Maximum permissible current	Clause: 5.5 & 7.5 The battery shall show no distortion or other damage when discharged at current i) $I_m=40 \times I_{20}$ Amps(14.4 A) for 300seconds ii) $I_h=300 \times I_{20}$ Amps(108A) for 5 seconds The minimum discharge time of the battery shall be 150 seconds at 8.04 volts, when discharged at $40 \times I_{20}$ Amps (14.4 A).	Withstood without any damage. Withstood without any damage. Discharge Time = 865 Seconds.

Test Engineer

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Test Report No. 006EATDBT11S0095

Dated. 06.01.12

Sheet 3 of 4

TEST RESULT

Sl. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained
4.	Charge Acceptance after deep discharge	Clause: 5.5 & 7.6 After deep discharge and recharging, the capacity of the battery shall be not less than 75% of C ₂₀ (5.4Ah)	The capacity of the Battery after deep discharge and recharging = 5.59 Ah.

Test Engineer

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Sheet 4 of 4

Test Report No. 006EATDBT11S0095

Dated. 06.01.12

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Test Engineer

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Sheet 1 of 3

TEST REPORT

Test Report Number : 006AEATDBT11S0095 **Dated** : 07.02.2012
This report has to be read in conjunction with report
No. 006EATDBT11S0095 Dated : 06.01.12

Name & Address of the Customer : M/s Tropicana Enterprises Pvt Ltd
A-232, Okhla Industrial Area, Phase-I,
New Delhi-110020

Name & Address of the Manufacturer : M/s Tropicana Enterprises Pvt Ltd
A-232, Okhla Industrial Area, Phase -I,
New Delhi-110020

Particulars of sample tested
Condition of the sample on Receipt : New
Type : 12V, 7.2 Ah
Designation : SMF Battery
Serial Number : --- Nil ---
Number of Samples Tested : One
Date(s) of test (s) : 30.09.11 to 02.02.2012
CPRI Sample Code No : EATDBT11S0095

Particulars of test Conducted
Test in accordance with : Charge Retention and Resistance to Shock
Standard/ Specification : As per JIS C 8702 – 1:2003
Sampling Plan : Not Applicable
Customer's requirement : --- Nil ---
Deviations if any : --- Nil ---

Names of the witnessing persons
Customer's representatives : --- Nil ---
Other than Customer's representatives : --- Nil ---
Test Subcontracted with
address of the laboratory : None

Documents constituting this report
(In words)
Number of sheets : Three Only
Number of oscillograms : --- Nil ---
Number of graphs : --- Nil ---
Number of photos : --- Nil ---
Number of Test circuit Diagrams : --- Nil ---
Number of drawings : --- Nil ---


(A.LOURDHUNADHAN)
Test Engineer




(NAGARAJA RAO . V.N.)
Joint Director

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Test Report No. 006AEATDBT11S0095

Dated : 07.02.2012

Sheet 2 of 3

TEST RESULT

Sl. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained
1.	Charge retention	Clause: 5.4 & 7.4 The Battery shall be fully charged and stored on open circuit for 120 days. After the storage the capacity shall be not less than 75% of actual capacity C_a (5.57Ah).	The capacity of the Battery=5.64 Ah
2.	Resistance to Shock	Clause: 5.10 & 7.10 The battery shall be free from such abnormalities as noticeable deformation, damage and Electrolyte Leakage, the Terminal voltage shall be the nominal voltage or more, When subjected to free fall 3 times from a height of 20 cms.	Withstood without any damage. Terminal Voltage remained constant.

Test Engineer

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Test Report No. 006AEATDBT11S0095

Dated : 07.02.2012

NOTE

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Test Engineer

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CPRI

Sheet 1 of 4

TEST REPORT

Test Report Number : 005EATDBT11S0093 Dated : 06.01.12

Name & Address of the Customer : M/s Tropicana Enterprises Pvt Ltd
A-232, Okhla Industrial Area, Phase-I,
New Delhi-110020

Name & Address of the Manufacturer : M/s Tropicana Enterprises Pvt Ltd
A-232, Okhla Industrial Area, Phase -I,
New Delhi-110020

Particulars of sample tested
Condition of the sample on Receipt : New
Type : 6V, 4.5 Ah
Designation : SMF Battery
Serial Number : --- Nil ---
Number of Samples Tested : One
Date(s) of test (s) : 10.08.11 to 01.10.11
CPRI Sample Code No : EATDBT11S0093

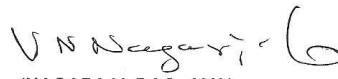
Particulars of test Conducted
Test in accordance with Standard/ Specification : 1) Capacity 2) High rate Discharge Characteristics
3) Maximum permissible current 4) Charge acceptance
after deep discharge As per JIS C 8702 – 1:2003

Sampling Plan : Not Applicable
Customer's requirement : --- Nil ---
Deviations if any : --- Nil ---

Names of the witnessing persons
Customer's representatives : --- Nil ---
Other than Customer's representatives : --- Nil ---
Test Subcontracted with address of the laboratory : None

Documents constituting this report
(In words)
Number of sheets : Four Only
Number of oscillograms : --- Nil ---
Number of graphs : --- Nil ---
Number of photos : --- Nil ---
Number of Test circuit Diagrams : --- Nil ---
Number of drawings : --- Nil ---


(A.LOURDHUNADHAN)
Test Engineer


(NAGARAJA RAO . V.N.)
Joint Director

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CPRI

Test Report No. 005EATDBT11S0093

Dated. 06.01.12

Sheet 2 of 4

TEST RESULT

Sl. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained
1.	Capacity	Clause: 5.1 & 7.1 The Battery shall reach at least 100% of the rated capacity(4.5Ah) within 5 cycles when charge and discharge cycle is repeated.	The capacity of the Battery First Cycle = 4.76 Ah
2.	High Rate Discharge characteristics	Clause: 5.2 & 7.2 The minimum discharge time of the battery shall be 27minutes at 9.6 volts, when discharged at $20 \times I_{20}$ Amps (4.5 A).	Discharge Time 30minutes 52seconds.
3.	Maximum permissible current	Clause: 5.5 & 7.5 The battery shall show no distortion or other damage when discharged at current i) $I_m=40 \times I_{20}$ Amps(9 A) for 300seconds ii) $I_h=300 \times I_{20}$ Amps(67.5A) for 5 seconds The minimum discharge time of the battery shall be 150 seconds at 4.02 volts, when discharged at $40 \times I_{20}$ Amps (9 A).	Withstood without any damage. Withstood without any damage. Discharge Time = 960seconds.

Test Engineer



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CPRI

Test Report No. 005EATDBT11S0093

Dated. 06.01.12

Sheet 3 of 4

TEST RESULT

Sl. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained
4.	Charge Acceptance after deep discharge	Clause: 5.5 & 7.6 After deep discharge and recharging, the capacity of the battery shall be not less than 75% of C_{20} (3.375Ah)	The capacity of the Battery after deep discharge and recharging = 3.55 Ah.

Test Engineer

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Test Report No. 005EATDBT11S0093

Dated. 06.01.12

Sheet 4 of 4

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Test Engineer

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Sheet 1 of 3

TEST REPORT

Test Report Number : 005AEATDBT11S0093 **Dated** : 07.02.2012
This report has to be read in conjunction with report
No. 005EATDBT11S0093 Dated : 06.01.12

Name & Address of the Customer : M/s Tropicana Enterprises Pvt Ltd
A-232, Okhla Industrial Area, Phase-I,
New Delhi-110020

Name & Address of the Manufacturer : M/s Tropicana Enterprises Pvt Ltd
A-232, Okhla Industrial Area, Phase -I,
New Delhi-110020

Particulars of sample tested
Condition of the sample on Receipt : New
Type : 6V, 4.5 Ah
Designation : SMF Battery
Serial Number : --- Nil ---
Number of Samples Tested : One
Date(s) of test (s) : 01.10.11 to 02.02.12
CPRI Sample Code No : EATDBT11S0093


Particulars of test Conducted
Test in accordance with : Charge Retention and Resistance To Shock
Standard/ Specification : As per JIS C 8702 – 1:2003
Sampling Plan : Not Applicable
Customer's requirement : --- Nil ---
Deviations if any : --- Nil ---

Names of the witnessing persons
Customer's representatives : --- Nil ---
Other than Customer's representatives : --- Nil ---
Test Subcontracted with :
address of the laboratory : None

Documents constituting this report
(In words)
Number of sheets : Three Only
Number of oscillograms : --- Nil ---
Number of graphs : --- Nil ---
Number of photos : --- Nil ---
Number of Test circuit Diagrams : --- Nil ---
Number of drawings : Nil ---


(A.LOURDHUNADHAN)
Test Engineer




(NAGARAJA RAO . V.N.)
Joint Director

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Sheet 2 of 3

Test Report No. 005AEATDBT11S0093

Dated : 07.02.2012

TEST RESULT

Sl. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained
1.	Charge retention	Clause: 5.4 & 7.4 The Battery shall be fully charged and stored on open circuit for 120 days. After the storage the capacity shall be not less than 75% of actual capacity C_a (3.57Ah).	The capacity of the Battery=3.74 Ah
2.	Resistance to Shock	Clause: 5.10 & 7.10 The battery shall be free from such abnormalities as noticeable deformation, damage and Electrolyte Leakage, the Terminal voltage shall be the nominal voltage or more, When subjected to free fall 3 times from a height of 20 cms.	Withstood without any damage. Terminal Voltage remained constant.

Test Engineer

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Dated : 07.02.2012

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Test Engineer

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