 

Software & Hardware Quality Testing and Certification Center

Bangladesh Computer Council

**Test Summary Report (Hardware Test)**

**of**

**Ministry of Railways**

**Version <1.0>**

Date: 20 March, 2024

VERSION HISTORY

| **Version #** | **Implemented By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| --- | --- | --- | --- | --- | --- |
| 0.1 | *SHQTC Team* | *20/03/2024* |  |  | *Draft of Ministry of Railways Hardware Test Summary Report V0.1* |
| 1.0 | *SHQTC Team* | *20/03/2024* | *Zahid Mohammad Feroz* | *20/03/2024* | *Ministry of Railways Hardware Test Summary Report V1.0* |

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# 1.0 INTRODUCTION

## 1.1 **Purpose:**

The purpose of this document is to represent the Specification-based test and Burn-In test results of the **Computer and Other Devices** provided by Ministry of Railways.

**Project Name**: Ministry of Railways Hardware Testing

**Version:** 1.0

## 2.1 **Summary of Testing Activities**

|  |  |
| --- | --- |
| **Discovery** | **Deliverables** |
| Understood the requirements from the Technical Specification | Specification queries |
| **Planning** |  |
| Built test plan | Test Plan |
| **Checklist & Environment Preparation** |  |
| Prepared the checklist & environment for Testing | Checklist of the Tests |
| **Execution** |  |
| Checking the product according to the specifications | Remarks |
| Executing different tests | Test Results |
| **Reporting** |  |
| Creation of test summary report | Test Summary Report |

## 

## **2.2 Test Scope**

Perform specification-based and Burn-In hardware testing of the hardware items mentioned in the scope.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Item** | **Package, Lot No./Tender ID** | **SL No** | **Description** |
| UPS |  | CZBM59506 |  |
| Speaker |  |  |

# 

# 3.0 SPECIFICATION-BASED TEST ASSESSMENT RESULT

## **3.1 UPS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SN** | **Item** | **Required Specifications** | **Specifications As per Contract Agreement** | **Remarks** |
| 1 | Product Name | UPS | UPS | PASSED |
| 2 | Brand | To be mentioned by the Bidder | Digital X | PASSED |
| 3 | Model | To be mentioned by the Bidder | DX2800D | PASSED |
| 4 | Country of Manufacture | To be mentioned by the Bidder | China | PASSED |
| 5 | Country/Company of Origin | To be mentioned by the Bidder | China | PASSED |
| 7 | Capacity | 1.2 KVA | 1.2 KVA |  |
| 8 | Back up time | Full Load 30 Minutes, Half Load 40 Minutes | Full Load 30 Minutes, Half Load 40 Minutes |  |
| 9 | Battery | Lead acid and Maintenance free Recharge | Lead acid and Maintenance free Recharge |  |
| 10 | Input Voltage | 85-135V | 85-135V |  |
| 11 | Output Voltage | 100-220V | 100-220V |  |
| 12 | UPS Off Mood | Battery Charging on Transfer Time: < 2 milliscond | Battery Charging on Transfer Time: < 2 milliscond |  |
| 13 | Wave from | Simulated Sine Wave | Simulated Sine Wave |  |
|  | Protection | High Voltage and Low Voltage Protection Overloaded Protection Short Circuit Protection Surge, Spike and Noise Filtering Signal for Low battery Charge | : High Voltage and Low Voltage Protection Overloaded Protection Short Circuit Protection Surge, Spike and Noise Filtering Signal for Low battery Charge |  |
|  | Bulb Test | With Variac + Bulb + Bulb bed + Multimeter must be arrange by supplier | With Variac + Bulb + Bulb bed + Multimeter must be arrange by supplier |  |

## **3.2 Speaker**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SN** | **Item** | **Required Specifications** | **Specifications As per Contract Agreement** | **Remarks** |
| 1 | Product Name | Speaker | Speaker | PASSED |
| 2 | Brand | To be mentioned by the Bidder | Creative |  |
| 3 | Model | To be mentioned by the Bidder | SBS A60 |  |
| 4 | Country Of Manufacture | To be mentioned by the Bidder | China |  |
| 5 | Country/Company of Origin | To be mentioned by the Bidder | Taiwan |  |
| 6 | Channel | 2 | 2 |  |
| 7 | RMS/Channel | At least 2 Watt | At least 2 Watt |  |
| 8 | Signal to Noise Ratio | 75dB | 75dB |  |
| 9 | Frequency | At least 90Hz -20KHz | At least 90Hz -20KHz |  |
| 10 | Color | Black | Black |  |

# 4.0 SYSTEM INFORMATION

Under System Information the System, BIOS, Baseboard/Motherboard, CPU and Memory specifications have been shown.

## 

## **4.1 UPS**

## **4.2 Speaker**

# 5.0 TESTING TEAM

| **Name** | **Designation** | **Role** | **Email** |
| --- | --- | --- | --- |
| Zahid Mohammad Feroz | Manager (Operation) and In Charge (Testing, Quality Control and Certification) | Test Manager | zahid.feroz@bcc.gov.bd |
| Md. Hossain Bin Amin | Senior Programmer (Additional Charge) | Test Analyst | hossain.amin@bcc.gov.bd |
| Md. Fazle Karim Prodhan | Maintenance Engineer (Additional Charge) | Test Engineer | fazle.prodhan@bcc.gov.bd |
| Atiqur Rahman | Assistant Maintenance Engineer | Test Engineer | atiqur.rahman@bcc.gov.bd |
| Md. Sabbir Hossain | Project Associate | Test Engineer | md.sabbir@bcc.gov.bd |

APPENDIX A: Test Report Verification and Approval

The undersigned acknowledge they have reviewed and Verified the Ministry of Railways **Hardware Test Summary Report** and agree with the approach it presents. Changes to this **Hardware Test Summary Report** will be coordinated with and approved by the undersigned or their designated representatives.

**Report Generated by-**

|  |  |  |  |
| --- | --- | --- | --- |
| Signature: |  | Date: |  |
| Print Name: | **Atiqur Rahman** |  |  |
| Title: | Assistant Maintenance Engineer Software and Hardware Quality Testing and Certification Centre (SHQTC) |  |  |
| Office: | Bangladesh Computer Council |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Signature: |  | Date: |  |
| Name: | **Md. Fazle Karim Prodhan** |  |  |
| Title: | Maintenance Engineer (Additional Charge) Software and Hardware Quality Testing and Certification Centre (SHQTC)  Bangladesh Computer Council |  |  |
| Role: | Test Engineer |  |  |

**Verified By-**

|  |  |  |  |
| --- | --- | --- | --- |
| Signature: |  | Date: |  |
| Name: | **Md. Hossain Bin Amin** |  |  |
| Title: | Senior Programmer (Additional Charge) Software and Hardware Quality Testing and Certification Centre (SHQTC)  Bangladesh Computer Council |  |  |
| Role: | Test Analyst |  |  |

Approved By-

|  |  |  |  |
| --- | --- | --- | --- |
| Signature: |  | Date: |  |
| Print Name: | **Zahid Mohammad Feroz** |  |  |
| Title: | Manager (Operation) and  In Charge (Testing, Quality Control and Certification) Software and Hardware Quality Testing and Certification Centre (SHQTC)  Bangladesh Computer Council |  |  |
| Role: | Test Manager |  |  |

APPENDIX B: REFERENCES

The following table summarizes the documents referenced in this document.

|  |  |  |
| --- | --- | --- |
| **Document Name and Version** | **Description** | **Location** |
| *Technical Specifications* | *Technical Specifications of the Computer and Others Devices* | [*ComputerServicesLtd.zip*](file:///D:\Hardware%20Test\BHTPA\Computer%20Services\ComputerServicesLtd.zip) |

APPENDIX C: ACRONYMS

The following table provides definitions for acronyms relevant to this document.

|  |  |
| --- | --- |
| **Term** | **Definition** |
| BIOS | Basic Input/Output System |
| I/O | Input/Output |
| HDD | Hard Disk Drive |
| SATA | Serial AT Attachment |
| DDR | Double Data Rate |
| LAN | Local Area Network |
| HDMI | High-Definition Multimedia Interface |
| RAM | Random Access Memory |

APPENDIX D: KEY TERMS

The following table provides definitions for terms relevant to this document.

| **Term** | **Definition** |
| --- | --- |
| Test Scope | The scope of testing is the extensiveness of the test process |
| Test Plan | A document describing the scope, approach, resources and schedule of intended testing activities |
| Burn-In test | A burn-in test is a type of test where a computer, device or component is run for an extended length of time in order to identify any potential problems |