



E-Track Application (BCIL)

(BCIL)

Kusum Healthcare

Installation Qualification Document

This user’s guide includes the installation qualification protocols (quality) defined for the application.

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Version Number: 1.0.0

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REVISION HISTORY

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| Revision  Number | Date | Prepared By | Reviewed By | Comment |
| 1.0.0 | 15-Nov-2022 | Omkar G | Chandra Prakash | New Release |

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# PROTOCOL PREAPPROVAL:

**By Barcode India Team**

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| Omkar Gaonkar | Technical Writer |  |
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| Chandra Kant Shindkar | Program Manager |  |

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| Software | Ritu Kapoor | Head of Engineering |  |

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**By Kusum Team**

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# SYSTEM DETAILS:

**System/Software Details:**

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| --- | --- | --- |
| **System Name/Application Name** | **:** | E-Track Application (BCIL)  (PC Based) |

# OBJECTIVE:

Installation Qualification (IQ) determines the application is properly working on Instrument/system where application installed.

The Application IQ describes the software and the other supporting software installed properly and communicate with the server. Also, the computer system must be setup and minimum operating requirement must be verified.

# SCOPE

The scope of this document is limited to outline procedure/ provide methodology for the installation qualification of equipment/ system within the following boundaries.

* Application is installed for all 2 D bar-coding machines.
* Verification of Application communication through server.

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# 5. SYSTEM DESCRIPTION

Online Quality Inspection is one of the most crucial aspects of the production line, BCIL contributes towards serenity of the same. E-Track Application (BCIL) system mainly support of following major stations.

**2D Barcode Scanner**

The scanner takes the barcode data of the product under its conveyor. The barcode data is taken once the sensor provides a signal to the camera.

**Scanner**

The lens is mounted in the camera and helps in focusing the image on the camera sensor. High power magnification and low distortion ensure that the highest quality of images is obtained. The lens used is 18mm focal length.

**Lighting Source**

An array of Red Light is used to provide uniform illumination. To prevent heat buildup, to increase the life of the LEDs and to reduce the power consumption of lights are equipped with strobing capabilities.

**IO Modules and Controller**

Especially Designed I/O modules used to make connection between PC and PLC (programmable logic controller). These IO modules can provide direct 24V output to machine for having individual rejection with or without PLC.

**TIJ PRINTER**

Printing method will be thermal ink jet double head printer. Print DPI capacity will be e202 600 DPI and it will print 12 x 12 2D barcode with 10 numbers of human readable lines.

**GT800 printer**

Completion of the Pack size thermal transfer printer will print the shipping label.

**DS 9208 scanner**

Aggression scanning- As per defined pack size user manual e factor secondary carton in shipper box by scanning in secondary to the courts which will be ready printed on the cartons.

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**PC Configuration**

Lenovo m710e MT with i3 Core processor 7100 3.90 GHz with 8GB RAM and 1TB hard drive. Software name E-Track application (BCIL), version – V2.0.8350.28515 developed in Microsoft Visual Studio.

# 6. SOFTWARE IQ:

Plant Quality Server:

K-IND-TNTTEST

|  |  |  |
| --- | --- | --- |
| **Item description** | **Observation** | **Acceptable/Not acceptable** |
| Intel® Xeon® Silver 4118 CPU 2.10 GHZ |  |  |
| Memory 8 GB RAM |  |  |
| Available disk space 140 GB |  |  |
| Display and peripherals super VGA (800 x 600) for higher resolution monitor |  |  |
| SQL server 2017 |  |  |
| Internet information system (IIS) Version 10.0. 14393. 0 |  |  |
| Web portal installation |  |  |

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## 6.1 Plant PC:

### 6.1.0 Client (Packing Area)

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| **Item** | **Observation** | **Acceptable/Not acceptable** |
| i5 Core processor 3.00 GHz |  |  |
| Memory (8GB RAM or greater) |  |  |
| Available disk space (1TB or grater) |  |  |
| Display and peripherals super VGA (800 x 600) for higher resolution monitor  Keyboard  Mouse or Compatible pointing device |  |  |

### 6.1.1 Client PC (2D Barcode Printing Area):

|  |  |  |
| --- | --- | --- |
| **Item** | **Observation** | **Acceptable/Not acceptable** |
| i3 - CPU 3.90 GHZ |  |  |
| Memory (8GB RAM or greater) |  |  |
| Available disk space (1TB or grater) |  |  |
| Display and peripherals super VGA (800 x 600) for higher resolution monitor  Keyboard  Mouse or Compatible pointing device |  |  |

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## 6.2 E-Track Application:

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| --- | --- | --- | --- |
| **Sr. No** | **Parameter/**  **Description** | **Specification** | **Observation** |
| 1 | Name | E-Track Application (BCIL) |  |
| 2 | Version | 2.0.8350.28515 |  |

## 6.3 E-Track Application System Software Installation

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Description** | **Available**  **( Yes / No )** | **Remark** |
| Web Application | Open the browser and access the Link [**http://192.188.20.98/WebApp/Login.aspx**](http://192.168.20.98/WebApp/Login.aspx) Application. The Web Site Should Open with Login Page |  |  |
| Client Software | Refer the Installation Document and run the setup *for*  Client application.  Double Click on the Application Icon from desktop. The Client application opens a login window. |  |  |

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## 6.4 Verification of System Installation & Details:

**Purpose:** To verify that the system is installed properly as per the specifications / requirements, system has been installed as per the installation manual and it has been cleaned & cleared of debris.

**Acceptance criteria:** The system should be installed as per the specifications.

## 6.5 Document Abbreviations:

|  |  |
| --- | --- |
| **Component** | **Description** |
| TIJ | Thermal Ink jet |
| PLC | Programmable Logic Controller |
| BCIL | Bar Code India Limited |
| BOM | Bill of Material |
| LAN | Local Area Network |
| SMPS | Switched-mode power supply |
| SRS | Software Requirements Specification |
| URS | User Requirement Specification |
| UAT | User Acceptance Testing |
| NA | Not Available |

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7. CONCLUSION

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# 8. PROTOCOL POST APPROVAL:

**By Kusum Team**

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