HARDWARE INFRASTRUCTURE REQUIRED FOR IMPLEMETATION OF EXCISE E-GOVERNANCE APPLICATION (ASSAM)

C-TEL INFOSYSTEMS PVT LTD

: - Usage of Hardware for functioning of Excise e-governance application at Brewery

S. No	Item Description	Technical Specifications	Purpose	Units
1	IP68 Grade Server (Primary & Secondary)	• Intel i7 Octa Core • 16 GB RAM, 1 TB HDD, Fanless • Operates in -20 to +90 degree Celsius. • Dual LAN port, Inbuilt 4G / 5G SIM and Wi-fi Module • OS: Ubuntu 20:04	Installation of Excise e-governance application - Modules and Features to achieve Control and Regulation at Brewery Units **Features List:** • Configuration of Tanks (Based on Approved Calibration Sheets) • Gate Inward & Outward Registers • Spirit Procurement Process (RS/ENA/MALT Etc.) • Unloading / Receive Spirits (RS/ENA/MALT Etc.) • Generate Spirit Register • Route Creation • Indent for Spirit Transfers between Storage VATs or Tanks • Spirit Indents / Spirit Requisition for Blending • Capture DIP Readings • Sending Samples to Chemical Lab • Receive Approved Chemical Analysis Reports • Blend Indent for Bottling • Hologram Purchase Indent • Receive Holograms • Generate Hologram Inventory • Production Lines Creation and Configuration • Indenting for holograms for Daily Production • Hologram Spool Allocation to Production Lines • View Products info with Cost Card approved / renewed by Excise Department • Bottling Unit Line Configuration for Daily Production • Capture Production Type [Civil Supply, Export, CSD-Civil, CSD-Export etc.] • Printing of Barcodes on Carton through Ink Jet Printer • (Case Barcode Generation in 1D and 2D formats) • Scanning of Holograms affixed on Bottles and aggregation with the	2

			Carton Barcode with Camera based 2D / 1D vision Scanner • Generation Finished Goods Inventory (Holograms affixed on Bottles packed and mapped to a Case) • Approval of Order for Supply (OFS) / Purchase Order • Receipt of Approved Transport Permits Raised by Wholesaler etc. • Indenting and Approval of Transit Pass against Transport Permit • Scanning Barcoded Cases with Mobile Based application through Handheld Device • Generation of Transport Pass for Local, CSD and Export permits • Generation of Advance Shipment Notice to Wholesalers • Generation of Packing List against each Transit Pass • Online EVC generation against Transit Pass • Capture Storage Breakages • Capture Storage Shortages • Reprint of Damaged or Smudged Case Barcode • Alert & Notifications • Dashboard for Line wise Production, Excise Duty, Shipments • Collection of Fees & Duties • MIS Reports	
2	IP 68 Industrial Grade PC (Client PC) with monitor Keyboard Mouse	• 8 GB RAM, 500 GB HDD • Operates in -20 to +90 degree Celsius. • LAN port, 4 USB Hub, Inbuilt 4G/5G SIM and Wi-fi Module • OS: Ubuntu 18:04	Integrated Computer (Industrial Grade) required to Access and Operate the Excise e-governance Application by the Management and Excise Officer of the Bottling Unit for the modules and features as mentioned in the above feature list.	3
3	Handheld Scanners Wi-fi (For Dispatch section) WLAN/ Bluetooth with 2D, 1D with linear imager	**Basic Features:** • **CPU:** Octa-Core 1.4 Ghz • **RAM:** 2GB(Standard)/4GB (Optional) • **ROM:** 16GB(Standard)/64GB(Optional) • **O.S:** Android 8.1 • **Display:** 5.0-inch TFT-LCD HD (720 x 1280) color screen • **Dimensions:** 158mm x 76.2 mm x 13.3mm • **Weight:** 210g (Battery included • **Buttons:** Volume up/down, Power button, Custom buttons, Scan button, Home, Menu, Back	Mobile Based application on Handheld devices is provided to operate the transaction where a computer cannot be used to facilitate such transaction (Mainly at warehouse, Security Gate etc.) • Scanning of Permit Barcodes to auto generate the Gate Inward and Outward Registers • Mobile based application is developed for scanning the Barcodes printed on each Carton box before loading into the truck or vehicle against each Transit Pass.	6

		• **Input:** Chinese/English, and supports handwriting and soft keyboard • **Barcode Scanner:** 2D imager • **Main Battery:** Rechargeable 3.8V 3800mAh lithium, Polymer battery pack (Typical Operation time >8 hours) • **RTC Battery:** Real time clock battery • **Radio Communication:** - **Wi-Fi**: 802.11 a/b/g/n/ac - **Bluetooth:** 4G FDD-LTE(B1/B2/B3/B4/B5/B7/B8/B20 - **Radio Bands:** - 3G: WCDMA(B1/B2/B5/B8) - 2G: GSM/EDGE/GPRS (850/900/1800/1900MZ) • **Expansion and peripherals:** - **Camera:** 13MP auto-focus color rear camera with flash, 2MP front-facing camera - **RFID GPS:** Supports 13.56Mhz, ISO14443A&B and ISO15693 standard, Supports NFC - **GPS:** GPS, A-GPS, Bei-Dou satellite navigation system, GLONASS • **Slot Interfaces:** - Micro SD/TF * 1, Micro SIM 2 - Type-C USB, 3.5mm Audio port, POGO PIN - **Sensor:** Light sensor, Range sensor, Acceleration sensor, Compass, Gyroscope, Barometer - **Audio:** Loudspeaker, Microphone, Earpiece - **Fingerprint Module:** Optional - **Standard Accessories:** Power adaptor, Data cable, One battery • **User Environment:** - **Operating Temperature:** -10 50 C (14=122"F) - **Storage Temperature:** -40 70 C (-40=158'F) - **Humidity:** s% - 95% - **Drop Durability:** 1.5m - **IP rating:** 65	Breakages or Shortages identified in the brewery warehouse shall be scanned through the device for capturing & recording the Breakages or Shortages to automatically update / generate the respective inventory registers.	

4	2D-wired scanner	• **Scan Pattern:** Area Image (838 x 640-pixel array) • **Motion Tolerance:** Up to 610 cm/s (240 in/s) for 13 mil UPC at optimal focus • **Scan Angle:** - HD Focus: Horizontal 41.4°; Vertical: 32.2° - SR Focus: Horizontal: 42.4°; Vertical: 33° - ER Focus: Horizontal: 31.6°; Vertical: 24.4° • **Symbol Contrast:** 20% minimum reflectance difference • **Pitch, Skew:** 45°, 65° • **Decode Capability**: Reads standard 1D, PDF, 2D, Postal and OCR symbologies • **Environmental Sealing:** IP41 • **Drop:** Designed to withstand at least 1.8 m (6´) drops to concrete. • **Ratchet stand:** Designed to withstand at least 1.2m • (4´) drops to concrete on each of the faces. **Input Voltage:** 4 VDC to 5.5 VDC **Operating Power:** 2.3 W (450mA @ 5 VDC) **Standby Power:** 0.45 W (90mA @ 5 VDC) • **Host System Interfaces:** USB, Keyboard Wedge, RS232, IBM 46xx (RS485)	2D-wired scanners are integrated with the Excise e- governance application for certain process where scanning of Barcodes is required by Management and Excise officer connected with the Integrated Computers. • Scanning of Barcode Printed on Delivery challan for receiving the Hologram consignment to generate / Update the Inventory. • Scanning the 1D / 2D Barcodes printed on the Hologram Carton or Spool for issuing it to the Brewery management from Excise Custody / Inventory for Daily utilization • Scanning of Spool Barcodes for allocation of Holograms to the production lines • Scanning of Hologram for reprinting of Damaged or Smudged Case Barcode	2
5	LED Display 40''	• **Ethernet Specification**: Integrated Ethernet LAN Enabled • Inbuilt Browser	Displaying Realtime Dashboard for Line wise Production, Active Shipments, Revenue Generated, Sales, Inventory, etc.	1
	Network Equipment			
6	Wireless Access Points	• **Power:** External power adapter Input: 110-240V AC | Output: 12V DC, 1.0A | Power over Ethernet Class 0 • **Ethernet ports:**1 auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45, POE port | 2 auto MDX, auto-sensing 10/100 Mbps, RJ-45 ports • **Lock option:** Padlock & Kensington lock supported with optional mounting bracket (902-0166-0000). Kensington Lock supported with low profile mounting bracket (902-0181-0000) • **Power draw:** ZF7363: 12.95W (PoE), 12W (12V DC) • **WIFI:** **Standards:** IEEE 802.11a/b/g/n*, 2.4GHz and 5GHz* **Supported data rates:** 802.11n: 6.5Mbps – 130Mbps (20MHz) 6.5Mbps – 300Mbps (40MHz) | 802.11a: 54, 48,	Wireless Access Points will be installed in the Wholesale Warehouse, dispatch point and any other location within the Wholesale Premises for establishing the connectivity between mobile based handheld device, Integrated computers etc. and the servers installed within the Wholesaler Location to operate / access the Excise e-governance application.	2

		36, 24, 18, 12, 9 and 6Mbps*| 802.11b: 11, 5.5, 2 and 1 Mbps | 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps • **Radio chains:** 2 x 2 • **Spatial streams:** 2 • **RF power output:** 26 dBm for 2.4GHz†, 24 dBm for 5GHz*† • **Channelization:** 20MHz and/or 40MHz • **Frequency band:** IEEE802.11n: 2.4 – 2.484GHzand 5.15 - 5.85GHz* | IEEE 802.11a: 5.15 – 5.85 GHz* | IEEE 802.11b: 2.4 – 2.484 GHz • **Performance & capacity:** **- Concurrent stations:** 256 **- Simultaneous VoIP clients:** Up to 20		
7	6 PIN industrial power spike	• **Maximum Spike Current**: 13,000 Amps • Long chord around 1.5 Mtr. *Preferably with Universal Sockets	Required for providing Power supply to the Equipment installed within the Server Rack	4
8	Network Switch 24 Port	• **1000Base-T Interface:** 12 • **1000Base-T PoE Interface:** 12 • **Auto MDI/MDIX:** Yes • **10/100/1000BASE-T PoE ports:** 12 • **10/100/1000BASE-T ports:** 12 • **Switch Capacity:** 48 Gbps • **Max. Packet Forwarding Rate:** 35.71 Mpps • **Power Input:** AC: 100-240V • **Comply with RoHS 6:** Yes • **MAC Address Table Size:** 8K • **802.3x Flow Control:** Yes • **802.1D Spanning Tree (STP):** Yes • **802.1w Rapid Spanning Tree (RSTP):** Yes • **802.1AX Link Aggregation:** Yes • **802.3ad Link Aggregation:** Yes • **Link Aggregation Group Per Device:** 12 • **Max Port Per Link Aggregation Group:** 8 • **Port Mirroring:** Yes • **Jumbo Frame:** 9216 bytes • **IGMP Snooping:** Yes • **Max IGMP Snooping Groups:** 64 • **802.1Q VLAN:** Yes • **VLAN Groups:** 128 • **Port-based VLAN:** Yes • **Voice VLAN:** Yes • **Auto Surveillance VLAN:** Yes • **Asymmetric VLAN:** Yes • **Number of Queue:** 4 • **DHCP/BootP Client:** Yes • **Ping:** Yes • **Surge/Lightning Protection (AC Power Inet):** 2kV	Required to provide the network connectivity (LAN) between the equipment installed within the Brewery	4

		• **Surge/Lightning Protection (All Ethernet Ports):** 1Kv • **Operation Temperature:** -5-50°C • **Operation Humidity:** 0%-95% RH • **Maximum Power Consumption:** 131.5 W (PoE on) 19.5 W (PoE off) • **Standby Power Consumption:** 8.8 Watts • **Maximum PoE Budget:** 100W • **PoE Budget:** 100 W (30 W max. per PoE port)		
9	Laser printer	• **Printing Method:** Monochrome Laser Beam Printing • **Print Speed (Simplex):** A4: Up to 25ppm **Print Speed (Duplex):** A4: Up to 7.7spm (sheets/minute) • **Print Resolution:** 600 x 600dpi. • **Print Language:** UFR II LT • Paper Sizes: A4, B5, A5, Legal, Letter, Executive, 16K, Envelope COM10, Envelope Monarch, Envelope C5, Envelope DL/ Index card Custom (Width: 76.2 - 216mm x Length 127 - 356mm) • **USB Interface** - USB 2.0 High Speed • **Network Protocol:** - Print: LPD, RAW, WSD-Print - Management: SNMPv1, SNMPv3, SLP - TCP/IP Application Services: WINS (IPv4), DHCP, BOOTP, RARP, DHCPv6 (IPv6), Auto IP, mDNS, DNS, DDNS • **Compatible Operating Systems-** Windows 7(32/64bit) or later, Windows Server 2012 R2 or later, Linux, Citrix (FR2 and later)	Required to Print the Permits (Import, Export etc.), Pass, Chemical Reports, different types of Registers etc.	1
10	Server Rack (12U)	• **Dimensions**: 12U 19", 590x600x440 mm, (H x W x D), 370mm working depth, (distance from bars to rear panel) • **Type:** wall-mounted, welded body, removable sides • **Door:** 4mm toughened glass • **Cable entry:** top + bottom • **Mounting profiles:** 1 pair – 19” • **Fan openings:** yes • **Colour:** RAL 7035 (grey) • **Protection degree:** IP 20 • **Additional equipment:** 3 sets of fixing screws in the holes of the supporting rails and a set of four screws for wall mounting	Required to Mount the Primary & Secondary Servers, Switch, Router etc..	1

11	Server Rack Partition Plates	• 1 pair – 19”	Partition plates are required to place Primary and Secondary servers separately inside the Server Rack	1 pair
12	Network cable (Cat6 - 305) mtrs	• **Category:** 6 UTP Solid cable • **Conductor Meta:** Bare Copper • **OD:** 6.1mm ±0.2 • **Capacitance Unbalance:** 330pF/100m • **Conductor:** 23 AWG (Solid) • **Insulation Material:** HD-PE • **Resistance Unbalance:** 5% Max • **Delay Skew:** <45nS	Cable required for providing network connectivity between each equipment to be installed within Brewery premises.	As per usage
13	RJ 45 Jack	• **Performance category:** CAT6 • **Housing material:** Polycarbonate • **Contact material:** Copper Housing • **Colour:** Clear • **Operating temperature:** -10^{o} to 60^{o}C • **Voltage/Current rating [UL applications]:** 125Volts AC/1.5Amps	Rj-45 Jacks are used to connect computers, Network Switches, Router and other equipment’s onto Ethernet-based local area networks (LAN) though Network Cable. (Point No 11)	As per usage
14	1KVA UPS Connectivity	• **Input Voltage Range:** 140 V ~ 300 V AC • **Frequency:** 50 Hz ± 10% • **Output Voltage:** 230 V ± 10% • **Charging Time:** 4-8 Hours recover to 90% capacity • **Operating Temperature:** 0°C-40°C	Required for Connecting Servers and Other computer equipment to avoid forceful shutdown and to achieve seamless / uninterrupted operations.	1
15	Firewall +5yr License	• **Interface:** - **Hardware Accelerated 10 GE SFP+ Slots:** 2 - **Hardware Accelerated GE SFP Slots:** 8 - **Hardware Accelerated GE RJ45 Ports:** 20 - **GE RJ45 Management / HA Ports:** 2 - **USB Ports (Client / Server):** 1 / 2 - **Onboard Storage:** 240 GB - **Included Transceivers:** 2x SFP (SX 1 GE) • **Capacity:** - **IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP):** 36 / 36 / 22 Gbps - **IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP):** 36 / 36 / 22 Gbps - **Firewall Latency (64 byte, UDP):** 3 µs - **Firewall Throughput (Packet per Second):** 33 Mpps - **Concurrent Sessions (TCP):** 5 Million - **New Sessions/Second (TCP):** 280,000 - **Firewall Policies:** ~10,000 - **IPsec VPN Throughput (512 byte):** 20 Gbps - **SSL-VPN Throughput:** 2.2 Gbps - **Concurrent SSL-VPN Users:** 5,000 - **IPS Throughput:** 8 Gbps - **CAPWAP Throughput:** 5.5 Gbps - **Maximum Number of Registered Endpoints:** 2,000	The Servers at the Brewery installed with Excise e-governance application has a sensitive data of Excise revenue and other important data, A firewall is installed for network security which monitors and restricts incoming and outgoing network traffic and decides whether to allow or block specific traffic based on a defined set of security rules.	1

		• **Power:** - **AC Power Supply:** 100–240V AC, 60–50 Hz - **Power Consumption (Average / Maximum):** 128 W / 187 W - **Current (Maximum):** 110V/7A, 220V/3.5A		
16	Lan Patch cards 2mtrs	• 4 Pairs Unshielded Twisted Pair (UTP) Cable • **Conductor Metal:** Bare Copper • **Color Code:** Gray • **Conductor:** 24 AWG • **Insulation Material:** HD-PE • **Jacket Material:** PVC UL94V-0 • **Heat-resistant:** 60oC minimum (Temperature limited) • **Flame property:** The purpose of the vertical flame test is to screen out flammable wires. It follows the VW-1 (UL); FT-1 (CSA) standards.	Cable required for providing network connectivity between equipment which will be installed within Brewery premises.	As per usage
17	Internet (Dedicated) + 2 Static IPs	• 10mbps	Required to establish the connectivity and data or Transactions exchange between Locally installed servers and Central Server.	1
17 A	Ports to be open	• 5434, 8082 and 2202	Ports to be open	
	Line Equipment * (Min. quantity for 1 production Line)			

18	Applicator	• **Speed:** 40-80 mtrs/min 100-400 labels/min • **Roll Dia:** 350mm • **Label Dispenser:** Stepper/Servo for Label Ht, more then 95mm also available on request. • **Label Width Range:** 95mm (std) 12/175/225 (optional) • **Label Length Range:** 8 to 300mm • **Counter:** Multispan with preset count facility. • **Sensor:** Dual sensor (option) for count verification. • **Stop Tolerance:** +/- 0.5 to 0.75mm • **Power Supply:** 220/240 V AC, 50Hz, Single Phase, Stabilized • **STANDARD FEATURES:** Label Roll Counter-Rewinder with VVM applicator having suitable counter with sensor, winding unit with constant surface speed with the help of operate traction roll, pressure roll & reel holder consisting suitable electric motor and gear box housed in S.S. box, duly matt finished & roll width up to 95 mm	Label applicator will auto apply the holograms containing pre-printed 2D barcode on the bottles in the production line. The hologram will be affixed over the cap and neck of the bottle in such a way that the 2D barcode region will be appearing on the cap and the remaining part of the hologram will go on the side of the bottle.	1

		complete with AC frequency drive, Top label Dispenser unit suitable for mounted on the same having imported product scanner & suitable label scanner and microprocessor controlled SERVO/STEPPER dispenser for speed for120, 240, 300, 650, 700 labels / min.		
19	2D Solution~1D Solution	• **Scanning Area / Carton size:** 625mm x 473mm • **No. of codes that can be scanned:** Min 1 to 96 QR Scan – Single layer • **Vision Camera:** Dual Industrial Grade Mono-chrome Camera working on GigE interface • **Lens:** Industrial grade machine vision lens 8-16mm focal length • **Lighting:** Dual Tube lights mounted to ensure even illumination on the substrate to be scanned • **Camera adjustment for different size of bottles:** System designed to work with Single Height setting which facilitates readability of bottles from smallest 90ml bottle to biggest 1Ltr bottle. • **Carton guide:** Mechanical guides provided to facilitate proper guiding of cartons to ensure appropriate positioning of Carton within scanning area • **Control cabinet:** Integrated Control cabinet with a provision to house necessary power supply system for Camera, PC, Monitor and GIGABIT Ethernet network switch. • **Software:** Proprietary 2D matrix code reading software with data logging feature pre-installed on the computer • **Mechanical structure:** Entire scanner is mounted on a stand-alone, free standing, mechanical structure.	Camera based QR code scanner is placed at the end of the Production Line conveyor. This Camera Based QR code reader will decode multiple codes in a single image. Depending on the SKU the reader will decode from 1 to 96 codes on the Production conveyor. The Camera based QR code reader reads the barcode information present on the bottle and stores it in memory. Once the required number of codes, as required by the SKU, are decoded by the system, it Aggregates / latches these barcodes to the Carton QR Code.	1
20	1D Barcode printer with 2 heads to print both sides of carton box with conveyor	• **Technology:** TIJ 2.5 • **Printhead frequency:** 15 KHz • **Print Height:** Up to 50.8 mm / 2” • **Printheads:** 1-or 2-pen printheads • **Printhead distance:** 0.5 - 2.0 mm (nozzle to print surface • **Voltage:** 100 – 240 VAC • **Memory:** 2 GB internal • **Screen:** 3.5” colour display • **Design software:** MiniDraw (PC) or on Controller • **Software menu language:** English (multiple languages)	2D barcode shall be printed on the cartons which is connected to the system and shall contain a key to access the specific information with the Excise e-governance application.	1

		• **Printer functionalities, e.g.:** User prompt, User defined print log • **Print features:** Variable DPI Left/Right, Upside-down, Other side mirrored. • **Layout features:** Max. length 65536 px (~ 277cm in 600DPI), Object rotation in 90 deg interval work with mm/inch/point/pixel. • **Remote controlling:** Start / Stop, Exchange job, change filed content per print, Change print preferences/parameters. • **Interface:** RS232 (serial) Ethernet (LAN) 100 Mbit, USB 2.0, Encoder Input 3-33 V (SUB D9), Product Sensor 3-33 (SUB D9) • **Signals:** Low ink signal, print signal, Print message signal. • **Complies to:** CE directives • **Housings:** Stainless Steel • **Accessories:** - Telescope - External sensor - Encoder - Mountings (Inocon 53 mm)		
21	Stack Light with Buzzer	• **Size:** 50 mm • **Input Voltage Options:** 24 VDC • **Functions available:** Continuous only Continuous Flashing Alarms • **Mounting options:** Direct mount only, includes 3 mounting nuts • **Alarms (FB style only)**: Alarm 1: selectable, single tone, continuous alarm, 85 dB (at 1 m) Alarm 2: selectable, single tone, intermittent (slow beep) alarm, 85 dB (at 1 m) • **Protection:** IP-65 Type 4 / 4X / 13 (indoor only)	Stack Light are installed on the Production line to alert the scanning operator by light and Busser indication for every Success & Failure Scan. This will function as a QA system.	1
22	Barcode Label Printer	• 200 MHz 32-bit RISC processor with 8 MB SDRAM, 4 MB Flash memory • Internally scalable true type fonts • TSPL-EZ firmware emulates Eltron® and Zebra® languages out of the box • Dual-motor gear driven design • 300-meter (984') ribbon supply on a 25.4 mm, (1") core (coated side out) • 110 mm (4.3") OD internal media supply, optional external roll mount supports • 214 mm (8.4") OD label rolls on 76.2 mm (3") core • 5 inches per second print speed • USB 2.0 & RS-232 interfaces standard	Due to any reason the barcoded carton is damaged with in the bottling plant premise, management can shift the bottles to the new carton and Print the Carton barcode through the Label Printed and affix the same on the replaced New carton Box	1

		• Free bundled labeling software and Windows drivers • Standard 2-year limited warranty		
23	2D-wired Imager/scanner	• **Light Source:** Aiming Pattern: 650nm laser diode Illumination: 630nm LED • **Imager Field of View:** 39° H x 25° V • **Roll/Pitch/Yaw:** 360°, ±65°, ±60° • **Swipe Speed:** Programmable up to 100 in./254 cm per second (Horizontal Read Rate) • **Frame Rate:** Up to 60 frames per second • **Laser Scanner Mode** - Light Source: 650nm LED - Scan Angle: 40° ±3° nominal • **IMAGING CHARACTERISTICS:** • **Graphics Format Support:** Images can be exported as Bitmap, JPEG or TIFF • **Image Transfer Speed:** USB 2.0: Up to 12 Megabits/second RS-232: Up to 115 kb/second • **Image Transfer Time:** Typical USB application is ~0.2 seconds with a compressed JPEG of 100kb • **Image Quality:** 120 DPI on a 4 x 6 in./10.2 x 15.2 cm document @ 6.5 in./16.5 cm • **SYMBOLOGY DECODE CAPABILITY:** • **1D:** UPC/EAN (UPCA/UPCE/UPCE1/EAN-8/EAN-13/JAN-8/JAN-13 plus supplementals, ISBN (Bookland), ISSN, Coupon Code), Code 39 (Standard, Full ASCII, Trioptic), Code 128 (Standard, Full ASCII, UCC/EAN-128, ISBT-128 Concatenated), Code 93, Codabar/NW7, Code 11 (Standard, Matrix 2 of 5), MSI Plessey, I 2 of 5 (Interleaved 2 of 5 / ITF, Discrete 2 of 5, IATA, Chinese 2 of 5), GS1 DataBar (Omnidirectional, Truncated, Stacked, Stacked Omnidirectional, Limited, Expanded, Expanded Stacked, Inverse),Base 32 (Italian Pharmacode) • **PDF417 (and variants):** PDF417 (Standard, Macro), MicroPDF417 (Standard, Macro), Composite Codes (CC-A, CC-B, CC-C) • **2D:** TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 (Standard, Inverse), QR Code (Standard, Inverse, Micro) • **Minimum Resolution:** Code 39 – 4 mil, UPC – 7.8 mil (60%), PDF417 – 5 mil, Datamatrix – 5 mil	2D-wired scanners are integrated with the Excise e- governance application for certain process where scanning of Barcodes is required by Management and Excise officer connected with the Integrated Computers. • Scanning of Barcode Printed on Delivery challan for receiving the Hologram consignment to generate / Update the Inventory. • Scanning the 1D / 2D Barcodes printed on the Hologram Carton or Spool for issuing it to the Brewery management from Excise Custody / Inventory for Daily utilization • Scanning of Spool Barcodes for allocation of Holograms to the production lines • Scanning of Hologram for reprinting of Damaged or Smudged Case Barcode	2 (1 Active & 1 Stand-by)

		• **USER ENVIRONMENT:** • **Operating Temp.:** 32° to 104° F /0° to 40° C • **Humidity:** 5% to 95% RH (Non-Condensing) • **Storage Temp.:** -40° F to 158° F / -40° C to +70° C • **Drop Specification:** Withstands multiple 5 ft./1.5 m drops to concrete • **Ambient Lighting Tolerance:** Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED1: 450 Ft Candles (4,844 Lux),Sunlight: 8000 Ft Candles (86,111 Lux) • **INTERFACES:** • **Interfaces Supported:** USB, RS-232, RS-485 (IBM 46xx Protocols), Keyboard Wedge • **REGULATORY:** • **Electrical Safety:** UL6950-1, CSA C22.2 No. 60950-1, EN60950-1 / IEC60950-1 • **Laser Safety:** EN 60825-1,IEC 60825-1, 21CFR1040.10, CDRH Class II, IEC Class 2 • **EMI/RFI:** FCC Part 15 Class B, ICES-003 Class B, EN 55022, EN 55024 AS/NZS 4268:2008, Japan VCCI • **Environmental:** Compliant with RoHS directive 2002/95/EEC • **OPTIONS:** • **Electronic Article Surveillance:** Compatible with Checkpoint EAS deactivation systems • **Accessories:** Wall Mount Bracket; RFID Module*		