

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

C-TEL INFOSYSTEMS PVT LTD

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

S. No	Item Description	Specifications	Purpose	Units
1	Tabletop Device (Android POS Device)	<ul style="list-style-type: none"> • Product Form: Intelligent advertising machine • Size: 420*176*20mm • LCD Proportion of the screen: 16 : 9 • Screen Resolution: 800*1280 • Touch Module: G+G Capacitive touch screen • Touch point: 10 points touch • Core processor: MTL8783 LTE 8core • CPU Type: ARM -53@1.3GHZ • GPU Type: ARM Mali-T720 • Memory Capacity: LPDDR3 3GB • Storage Capacity: eMMC 32GB • Camera Front: 8.0M • Speaker Built-in: 8R/2.0W*2 • Built-in battery: 7.4v-10000MA lithium battery • WIFI Module: WIFI 802.11b/g/n • External 4G antenna: 90 degrees of fold • Bluetooth Module: Bluetooth4.0 • 4G Internet: Supportive • 4G call: Supportive • External Memory: 1x miniSD card up to 64GB • NFC: Supportive • Charging: Support USB*2 • Data Transfer: Support USB2.0*2 • Music Output: ϕ 3.5mm standard headphone jack • Photo Viewer: BMP, JPG, GIF, PNG • Video Format: Video H.264, H.265 / HEVC, MPEG-1/2/4 • HDMI Interface: <ul style="list-style-type: none"> - Video Output: Micro HDMI • MIC: /-42dbm, 4015*1 • Power adapter: Power board supply 12V/2A/DC • USB Cable: Standard Configuration Host • Operating System: Android 7.0 • Audio Format: audio code (aac, amrnb, amrwb,g711-alaw,g711-mlaw,mp3,vorbis,alac,raw,flac,gsm) • File Type *.mp3,*.wav,*.ogg,*.flac,*.mid,*.amr,*.aac,*.ts,*.mp4,*.m4a,*.3gp,*.mkv) 	<p>Installation of Excise e-governance application - Modules and Features to achieve Control and Regulation at Retailer</p> <p>Features List:</p> <ul style="list-style-type: none"> • Raise Indent for Supply / Purchase Order to Wholesaler • View Approved Order for Supply / Purchase Orders issued by Wholesalers • Indent & Approval of Transport Pass • Receive Consignment from Wholesaler • Update Stock Inventory (IML, BEER, CS etc.) • Dashboard (Stocks, Sales), Transaction History • Scan Barcode for Sale of Bottles / Peg sales (if Bar) • Bulk Sale • Sale Return • Record Transit / Storage Breakages • Record Transit / Storage Shortages • Reports • Alerts & Notifications 	1

1.A	IP68 Grade Server(Primary & Secondary)	<ul style="list-style-type: none"> • Intel i7 Octa Core • 8 GB RAM, 500 GB HDD, Fanless • Operates in -20 to +90 degree Celsius. • Dual LAN port, Inbuilt 4G / 5G SIM and Wi-fi Module • OS: Ubuntu 20:04 desktop edition 	<p>Installation of Excise e-governance application - Modules and Features to achieve Control and Regulation at Retailer</p> <p>Features List:</p> <ul style="list-style-type: none"> • Raise Indent for Supply / Purchase Order to Wholesaler • View Approved Order for Supply / Purchase Orders issued by Wholesalers • Indent & Approval of Transport Pass • Receive Consignment from Wholesaler • Update Stock Inventory (IML, BEER, CS etc.) • Dashboard (Stocks, Sales), Transaction History • Scan Barcode for Sale of Bottles / Peg sales (if Bar) • Bulk Sale • Sale Return • Record Transit / Storage Breakages • Record Transit / Storage Shortages • Reports 	1
2	1KVA UPS Connectivity	<ul style="list-style-type: none"> • 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 		1

3	2D-Wired Scanner	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> - 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 (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) 	<p>2D-wired scanners are integrated and connected with the Excise e-governance application for scanning of Barcodes affixed on each bottle which will be scanned and issued to the End Consumer.</p> <p>This will auto update the inventory and generate a receipt for every sale.</p>	1
4	Thermal Printer	<ul style="list-style-type: none"> • Resolution: 8 dots/mm (203 DPI) • Printing method: Thermal Transfer & Direct Thermal • Max. print speed: 127 mm (5")/second • Max. print width: 108 mm (4.25") • Max. print length: 2,286 mm (90") • Label roll capacity: 110 mm (4.33") OD • Ribbon: 300 m long, max. OD 67 mm, 1"core (ink coated outside) • Ribbon width: 40 mm ~ 110 mm (1.6" ~ 4.3") • Processor: 32-bit RISC CPU • Memory: 4 MB Flash memory, 8 MB SDRAM, SD card reader for Flash memory expansion, up to 4 GB (user option) • Interface: USB 2.0, RS-232, Bluetooth (user option), External 802.11 b/g/n wireless (user option) • Power: External universal switching power supply 	<p>Thermal Printer will be Connected to the device for issuing bill or receipt for every sale of liquor bottle sold to the end consumer</p>	1

		<ul style="list-style-type: none"> - Input: AC 100-240V, 2.5A, 50-60Hz - Output: DC 24V, 2.5A, 60W • Sensors: Gap transmissive sensor, Black mark reflective sensor, Ribbon end sensor • Internal fonts: 8 alpha-numeric bitmap fonts, Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • Bar code: 1D bar code[Code 39, Code 93, Code 128UCC, Code 128 subset A, B, C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2 (5) digits add-on, MSI, PLESSEY, POSTNET, RSS-Stacked, GS1 DataBar, Code 11], 2D bar code [PDF-417, Maxicode, DataMatrix, QR Code, Aztec] 		
	Network Equipment*			
5	Firewall +5yrLicense	<ul style="list-style-type: none"> • Interface: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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 	The Servers at the Bottling Plants 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
6	Public IP	Dedicated Public IP	8082, 5434, 2202 ports to open	1

Note: Either serial no 1 or 1.A need to procure.