

**Annexure-10**  
**Technical Specifications for Cheque Deposit Kiosks**

**Note:**

1. The Bidder shall specifically mention the make and model of the items offered for all the requirements in terms of RFP without fail, failing which the Bid is liable for rejection.
2. If the Bidder feels that certain features offered are superior to what has been specified by the Bank, it shall be highlighted separately. Information regarding any modification required in the proposed configuration to meet the intent of the specifications and state-of-the-art technology shall be provided. However, the Bank reserves the right to accept the modifications / superior features suggested/offered.
3. The Bidder shall provide all other required equipments and services, whether or not explicitly mentioned in this RFP, to ensure the intent of specification, completeness, operability, maintainability and upgradability.
4. The selected bidder shall own the responsibility to demonstrate that the products offered are as per the specification/performance stipulated in this RFP and as committed by the bidder either at site or in bidder's work site without any extra cost to the Bank.

**1. Technical Specification of Cheque Deposit Kiosks**

Sl. No.	Clause No.	TECHNICAL SPECIFICATIONS	Specification Offered	Please write COMPLIED/ NOT COMPLIED for each specification
		<b>Mention Make &amp; Model</b>		
1		<b>Kiosk's Properties</b>		
	1.1	Rectangular in shape		
	1.2	Compact, sleek and edgeless		
	1.3	Exterior: Height = 5.2-5.10ft, Width=Max 2.25 ft, Depth=Max2.5ft		
	1.4	Scanner: height from base 2.75-3.5 ft		
	1.5	Virtual onscreen keyboard and pin pad also to be made available. However, Key Board and Mouse for maintenance purposes are to be placed inside the Kiosks or as decided by the Bank.		
	1.6	Mounting Type - Floor Mounted		
	1.7	Mobility: Plug and Play		
	1.8	Wake on LAN, Audio line out, Line in, Speaker(external)		
	1.9	Sheet Metal - IS513Draw Material or equivalent to 1.6mm		
	1.10	Powder coated		
	1.11	Anti Static		
	1.12	Provision to bolt the Kiosk to Floor.		
	1.13	Strong Mechanical Key lock		
2		<b>CPU</b>		
	2.1	Intel i5 Processor or above		
	2.2	500 GB x 2 SATA HDD or higher, 4USBPorts, 10/100 mbps Ethernet card and audio port. In-built SMPS to work on 230V 50MHz power supply or external adaptor ROHS certified.		

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		IPv6 compliant hardware, Should support TCP/IP or any other protocol introduced in future.		
	2.3	RAM : 4GB upgradable upto 8 GB		
3	<b>Operating System</b>			
	3.1	The operating system on Kiosk should be GUI based (TC/IP enabled) and supported by OS Provider.		
	3.2	Operating System should be Windows 10 or above, capable of multitasking real time operations.		
	3.3	OS Hardening with firewall		
4	<b>Touch Screen</b>			
	4.1	Size : 17"wide or higher		
	4.2	Type : SAW / Capacitive		
	4.3	Material : Atleast 6mm Pure Glass		
	4.4	Touch-Screen Resolution : 4096 touch points per axis within the calibrated area.		
	4.5	Endurance: Scratch resistant (must withstand more than 50 Million touches in one location without failure)		
	4.6	Light Transmission : > 90%		
	4.7	Accuracy : Less than + 1% error within the active area		
	4.8	Response time : <20 ms		
	4.9	Impact Resistant: Meets GB9633-1988 and UL-60950-1 steel ball test or equivalent		
	4.10	Antiglare Surface: 6:1 minimum		
	4.11	Operating Temperature: upto 50° C		
	4.12	Ability to add Flash messages on welcome loop screens and all screens as requested by Bank.		
5	<b>Cheque Scanner</b>			
	5.1	The machine should have a CTS-2010 compatible cheque scanner- UV which should be compatible to NCR CTS solution which is implemented in Canara Bank.		
	5.2	Supports acceptance of cheques one by one		
	5.3	Must be capable of reading cheques / DD / Bankers cheques		
	5.4	Programmable for accepting / rejecting documents based on business rules.		
	5.5	The scanner should be a linear path scanner (Not horse shoe type)		
	5.6	Scanning Method: Concurrent Two-Sided Duplex		
	5.7	Light Source : Tri-color LEDs		

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	5.8	Product Life & Duty Cycle : Designed for a useful life of over 10 lakhs items.		
	5.9	Optical character Recognition to enhance MICR Read		
	5.10	The scanner should have an integrated endorser for CTS requirements		
	5.11	Endorser should be programmable, Single line inkjet printer, User replaceable cartridge.		
	5.12	It has to have check pull in facility with programmable reverse for bad MICR read / outstation cheque/ unacceptable instrument.		
	5.13	The scanner must be programmable for full MICR line validation as per RBI guidelines.		
	5.14	Must have features capable of providing images as per RBI CTS requirements for future needs and can generate all the images views along with UV image in single pass. Bank will facilitate with their existing CTS vendor for integration.		
	5.15	Double feed detection by thickness measurement		
	5.16	Images: Front - Grayscale, Format - JFIF, minimum 100 DPI, Compression - JPEG		
	5.17	Reverse: Black & White, Format - TIFF, minimum 200 DPI, Compression - CCITT G4		
	5.18	Image Quality: Gray Scale image should be 8 bits/ pixel (256 levels).		
	5.19	UV Image: Scanner UV should scan the cheque and provide an image for verification		
	5.20	Cheque scanner should have the horizontal metal tray/ rest pad to keep the cheques at the insertion point and the path should be linear.		
	5.21	Must be able to detect and reject suspicious document		
	5.22	Auto alignment of cheque		
	5.23	Auto Shutter Mechanism		
<b>6</b>	<b>Cheque Stacker</b>			
	6.1	Metallic Box with Controlled free fall facility for holding upto 500 cheques		
	6.2	Box should be pilfer proof, water and fire resistant build.		
	6.3	Should have separate Lock & Key to hold the Cheques deposited.		
<b>7</b>	<b>Application Software</b>			
	7.1	The Application software must integrate with existing CBS software and NCR CTS solution.		

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	7.2	Validation of Account No.		
	7.3	Validate Status of A/c - Should not accept in Dormant / Stopped / Frozen A/c.		
	7.4	Display of title of the Account		
	7.5	Tally of Cheque(s) total with total amount to be credited.		
	7.6	Cheque Date Validation		
	7.7	Entry of voucher and Cheque information in outward clearing Batch.		
	7.8	Based on pre defined time and holiday calendar of base branch, the transaction date of Outward Clearing Batch should be identified.		
	7.9	Images generated must be capable of integrating with CTS application. Bank will provide the formats in which the file will be required for integration.		
	7.10	Reports for IQA failure/Outstation Cheques should be generated.		
	7.11	The touch-screen based menu-driven Application Software will be a communication tool and will maintain log for all transaction between kiosks and CBS.		
	7.12	Capable of remotely managing the kiosk transactions.		
	7.13	Component level health monitoring like Printer, Cheque scanner etc- Connected / Not connected Remote loading of Patch as and when needed like anti-virus updates.		
	7.14	Should be able to send notification along with images of cheques using the Bank's systems. Mobile Number and e-mail address will have to be fetched from CBS.		
<b>8</b>	<b>Audit</b>	Audit Report features required in the Kiosk.		
	8.1	Quantity Accepted: Shows the actual number of cheques accepted. Total Value: Shows the Total value of this quantity of cheques.		
	8.2	Failure Audit: Out of Service conditions- Totals, Total out of order conditions, Total No. of Jams, Total Jam recovery efforts, Total Rejects follows by Jam, Total Jams with recovery disabled.		
	8.3	Alerts: Low Media warning for all items viz., bills, journal roll, consumer printer roll etc. Warning in case the cassette is / are full and		

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		cannot accept further cheques.		
9	<b>Receipt Printer</b>			
	9.1	Printer:80mm, 40 Column Thermal Receipt Printer. Jam proof and automatic cutter facility. Minimum speed of 150 mm/sec. Capable of printing graphics. Minimum Resolution of 200 dpi. Should have support for RS232C and USB interface		
10	<b>Message</b>			
	10.1	Display of messages / instructions to the customers in Multilingual capability i.e., (1) English (2) Hindi (3) Any regional / local languages		
	10.2	Compatible with ISO8583 - 1993 Version		
11	<b>In-built Camera</b>			
	11.1	The system shall have HD camera		
	11.2	The camera shall be pilfer proof. The system shall capture image of the customer while doing the transaction and the image shall have the clarity to identify the person		
	11.3	The system shall be capable of capturing images		
	11.4	The system should be able to store the images in digital format for minimum 6 months at an average of 300 transactions per day. The vendor will be responsible for maintenance activities like taking backup and image retrieval. The backups should be taken during preventive maintenance and handed over to concerned branch. The media for back up (CDs) will be provided by the Bank.		
	11.5	The system should provide necessary interface to view the stored images on hard disk or external media.		
	11.6	The recording system shall take care of minimum light conditions.		
	11.7	The system must capture the image and the transaction with time stamp		
	11.8	The system shall provide for locating and retrieving an image or event by date and time, card number, transaction number and transaction ID.		
	11.9	The solution must not degrade the performance of Kiosk e.g., speed of normal transaction.		

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	11.10	There should not be any loss of data due to space constraint.		
12	<b>EMV Compliant Card Reader</b>			
	12.1	To support Magnetic Stripe and EMV Chip cards		
	12.2	Must have built in anti-skimming functionality. i.e. card reader installed and integrated.		
13	<b>Voice Enabling</b>			
	13.1	Voice enabled Kiosks should support (1) English (2) Hindi (3) Any regional / local languages as decided by the Bank.		
	13.2	Clarity of Voice and the same should be uniform voice across all Kiosks. It should be capable of giving instructions through speakers so as to enable the customers to deposit Cheque easily.		
14	<b>Network</b>			
	14.1	Should have capability to connect to any type of network switch.		
15	<b>Weather Condition</b>			
	15.1	Weather (Indian Weather Conditions) & vandal proof & Indian usability conditions.		
	15.2	Supply input voltage of 230V AC/50 Hz $\pm 5\%$ variation. Bank will provide power point.		
16	<b>Security and Alarm System-</b> The kiosk should be connected with an sensor and alarm system. Any local illegal access should be triggered with beep sounds in the machine.			
17	<b>1KVA online UPS (inbuilt) with minimum 20 minutes backup</b>			
18	<b>Branding</b>	The Kiosk should be vinyl wrapped as per the Bank's requirement.		

Date

Signature with seal

Name :  
Designation :