



# 2023 - 2024 RESSERVE BANK OF FIJI - CLOSED CIRCUIT TELEVISION OPEN TENDER

**Requirement Specification Document** 

**Tender Document** 

Due Date: 30/04/2024 by 3.00pm





#### INVITATION TO TENDER

The Reserve Bank of Fiji (RBF) invites written proposals from reputable vendors for the supply of a Closed-Circuit Television (CCTV) Solution.

- 1. 2 x 32TB Network Video Recorder (NVR);
- 2. 44 x 4MP Fixed Dome Indoor infrared cameras;
- 3. 20 x POE Injectors;
- 4. Structured Cabling for 12 floors

Detailed specifications including terms and conditions of the proposal can be obtained via email from the Mr Poasa Vasukicakau, Manager <a href="mailto:Security.poasa@rbf.gov.fi">Security.poasa@rbf.gov.fi</a>

All proposals are to be in Fijian Dollars and inclusive of VAT.

Proposals should be addressed to:

The Governor Reserve Bank of Fiji Private Mail Bag Suva Fiji

All proposals are to be submitted on email with the subject: 'CONFIDENTIAL – CLOSED-CIRCUIT TELEVSION OPEN TENDER 2023 - 2024' to the Board Secretary, Ms Subrina Hanif, <a href="mailto:subrina@rbf.gov.fj">subrina@rbf.gov.fj</a> and Manager General Administrative Services, Ms Melania Tamaue, <a href="mailto:melania@rbf.gov.fj">melania@rbf.gov.fj</a>. All submissions are to be received no later than 30/04/2024 by 3.00pm.

Incomplete and late submissions will not be considered. Lowest or any tender may not be necessarily accepted. Successful and unsuccessful submissions will be notified through formal correspondence.





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#### **Introduction**

The RBF is a statutory body with the following principle purpose:

- To regulate the issue of currency, and the supply, availability and international exchange of money;
- To promote monetary stability;
- To promote a sound financial structure;
- To foster credit and exchange conditions conducive to the orderly and balanced economic development of the country;
- To regulate the insurance industry; and
- To regulate the capital markets and the securities industry.

The Reserve Bank is inviting tenders from reputable vendors to supply, install and support the following equipment:

- 1. 32TB Network Video Recorder (NVR)
- 2. 4MP Fixed Dome Indoor infrared cameras
- 3. POE Injectors
- 4. Structured Cabling

The expectations from the deployment of these items are:

- Supply equipment that meets the Bank's current requirements and is scalable.
- Reduce operational and maintenance costs.
- Provide a secure and reliable infrastructure.

#### **Purpose of Document**

The purpose of this document is to outline the Banks requirements, tender process and the acceptable standards that need to be exhibited by the vendor during execution of the tender and delivery process.

#### **Scope of Works**

Supply and install the required hardware and software as per below:

- Configuration of NVRs and cameras. The RBF will be guided by the vendor on focusing, positioning and configurations of cameras to achieve optimal performance and results. The placement and number of cameras per floor will be guided by the approved plan.
- Setup of NVR High Availability cluster at main site for resilience. In the event the main NVR fails, the secondary NVR should resume without any impact to camera recordings. The secondary NVR will also serve as a backup source of recordings





for up to 30 days.

- Restrict viewing and investigations access for specific operator roles.
- Configuration of Backup. The backup schedule must be configured to run weekly and include configurations and recordings.
- User Acceptance Testing. Use cases to include NVR functionality, camera functionality, recordings, recordings retrieval, backup and restoration.
- Structured cabling for 12 levels<sup>1</sup>. More details are provided in the detailed systems requirements section below.

#### **Detailed System/EquipmentRequirements**

The solutions are to meet the specifications below:

A. Item Description: 32TB NVR Quantity: 1 plus secondary

\*A secondary NVR to be quoted for high availability and resilience.

Requirement		Description
Capacity		32 TB effective capacity after Raid 6
Operating System		Microsoft Windows Server 2019 – 16 core
Memory		$2 \times 8 \text{ GB DDR4}$
Processor		1 × Intel® 8-core Xeon
Network Video Streaming Performance	Recording Rate:	Up to 800 Mbps
(10 GbE - Playback Rate:		Up to 600 Mbps
Network Video Streaming	Recording Rate:	Up to 700 Mbps
Performance (1 GbE - Multiple Connections)	Playback Rate:	Up to 600 Mbps

<sup>&</sup>lt;sup>1</sup>Applicable to local vendors only. A site survey can be facilitated upon request.





Hard Disk Drive	Video Data: Operating	RAID 6 Up to $10 \times 3.5$ ", hot swappable			
Configuration	System:	$2 \times 240 \text{ GB M.2 SSD Drives, RAID 1}$			
<b>Video Outputs</b>		1 x VGA			
Network Interf	o co	Supports 2 × 10 GbE SFP+ ports3			
Network Interr	ace	$6 \times 1$ GbE RJ-45 ports			
Local Viewing		No			
Form Factor		2U rack mount chassis			
Out-of-band M	anagement	Yes			
<b>Power Input</b>		100 to 240 VAC, 50/60 Hz, auto-switching			
Power Supply		800 W Mixed Mode			
<b>Power Consumption</b>		Maximum 604 W (2061 BTU/h)			
Power Efficience	cy	Platinum			
Rack Rail Syste	em	Yes			
Bezel		1, front			
<b>Power Cords</b>		2 total: $1 \times C13 / C14$ , $1 \times country \ variant ((AU) \ AS3112 / C13)$			
Notes		Provide detailed ETA			
		All minimum requirements must be strictly met			
		Where applicable quote higher specifications as upgrade			
		options			

B. Item Description: Indoor Cameras Quantity: 44

Requirement		Description
Dome		Yes
Surface Mo	ount	Yes
MP		4.0
Lens		3.3 - 9 mm
IR		Yes
WDR		Yes
Analytics		Yes
Image Sensor		1/2.8" progressive scan CMOS
Max Resolution (H x		(16:9) 2560 x 1440 (4:3) 2304 x 1728
V) and Aspect Ratio		
Dynamic	WDR Off	83 dB
Range	Range WDR On 126 dB	
Max Image Rate		(50 Hz/60 Hz): 25 fps/30 fps
3D Noise Reduction		Yes
Filter		
Streaming		Multi-stream H.264, Multi-stream H.265, Motion JPEG





<b>Motion Detection</b>	Pixel motion: Selectable sensitivity and threshold. Classified object				
Without Detection	detection				
Camera Tamper	Yes				
Detection Tamper	103				
Electronic Shutter	Automatic Manual (1/7 to	to 1/8196 sec)			
Control	Automatic, Manual (1/7 to 1/8196 sec)				
Iris Control	Automatic, Open, Closed	1			
Day/Night Control	Automatic, Manual				
Flicker Control	60 Hz, 50 Hz				
White Balance	Automatic, Manual				
Backlight	· · · · · · · · · · · · · · · · · · ·				
Compensation	Adjustable				
Privacy Zones	Up to 64 zones				
Network	100BASE-TX, RJ45 Connector, CAT5e Cabling				
ONVIF	· ·	· ·			
	ONVIF compliance version 1.02, 2.00, Profile S, Profile T, Profile G (www.onvif.org)				
Security	ν ε				
Security	Password protection, HTTPS encryption, digest authentication, WS				
	authentication, user access log, 802.1x port based authentication, FIPS 140-2 L1 (with optional camera license), FIPS 140-2 L3 (with optional				
	accessory)	tamera neciise), 14	1 5 140-2 L3 (with optional		
Protocols	• /	PS SOAP DNS	NTP, RTSP, RTCP, RTP,		
Trotocols	TCP, UDP, IGMP, ICMP				
Streaming Protocols	RTP/UDP, RTP/U				
	RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP				
Device Management	SNMP v2c, SNMP v3		7 101,11111		
Protocols	Sittili v2e, Sittili v3				
Power Consumption	13 W max (11W with no	IR or IR disabled)			
Power Source	VDC: $12 \text{ V} \pm 10\%$ , VA	<u> </u>	PoE: IEEE802.3af Class 3		
1 over source		VA min	compliant		
RTC Backup Battery	3V manganese lithium		P		
Memory	2 GB RAM, 512 MB Flash				
Low-light technology	Yes				
Bandwidth	Yes				
Management					
Image Compression	H.264, H.265, Motion JPEG				
Method	11.20 ., 11.200, 11.0001 01 20				
	Provide ETA				
Notes	All minimum requirements must be strictly met				
	Where applicable quote higher specifications as upgrade options				
	11	9 I	10		





**C.** Item Description: PoE Injectors

Quantity: 20

Requirement	Description		
PoE Injectors	PoE Injectors		
roe injectors	IEEE802.3af Class 3 compliant		

**D.** Item Description: Structured Cabling

**Number of Floors: 12** 

<b>Copper Cable Box</b>	15 x Cat6 Cables (500 Feet) Boxes			
Copper Cable Box  Structured Cabling	<ul> <li>Number of Ports: 45</li> <li>Number of Floors: 12</li> <li>Ports per Floor: 4 (varying locations and floors)</li> <li>Supply and run Cat 6 cables</li> <li>Supply, install, patch and mount patch panel tie, mounting blocks and structured cabling between camera mount and floor-level switch.</li> <li>Mounting blocks to be supplied by vendor</li> <li>Supply and installation of Ducting and conduits for all cables</li> <li>Supply and installation of Horizontal cable management bar (where required)</li> <li>Neat up wiring and patch panel cabling</li> <li>Labelling of all ports in the tie</li> <li>Test and Verify cable connectivity</li> <li>Provide Test Result Report</li> </ul>			

Please note that all tender submissions need to indicate whether the minimum tender requirements are met and need to be submitted using the following format.

Minimum Requirements	Description	Specification Quoted	Meets Minimum Requirements (Yes or No)	Any Options	upgrade





#### **Tender Process**

The steps below provide a brief outline of the RBF tender process:-

- 1. Selected vendors can liaise with RBF to clarify any issues before submitting their tenders;
- 2. Vendors are to submit tenders within the time specified;
- 3. Analysis and assessment of submitted tender by RBF;
- 4. Clarification of tender items, if necessary;
- 5. Awarding of Tender;
- 6. Meeting with selected vendor regarding equipment delivery;
- 7. Contract Signing.

#### **Tender Requirements, Selection and Evaluation**

- 1. Company Profile;
- 2. Business License & Registration;
- 3. Authorized Letter of Service Centre and Reseller;
- 4. Fiji Revenue & Customs Services Tax Compliance Certificate (if local) or equivalent Compliance Certification for overseas bidders;
- 5. Fiji National Provident Fund Compliance Certificate (if local) or equivalent Compliance Certification for overseas bidders;
- 6. Prices should be valid for at least two months;
- 7. Supply all associated licensing agreements, documentation, and kits where applicable.
- 8. Document and provide serial number upon delivery of items;
- 9. Provide information on warranties and extended warranties, where applicable;
- 10. Provide ETAs for items in the tender upon placing order;
- 11. Provide costs in Fiji dollar and inclusive of VAT;
- 12. For overseas bidders only, please exclude GST levy and advise whether the price is inclusive or exclusive of 15% Withholding Tax;

It is mandatory for the bidder to provide all the requirements listed above in order for their bid to be considered for further assessment. Any bidder who does not meet the 100% requirement as per the above list, their submission **SHALL NOT BE CONSIDERED** for further assessment.

Tender may not necessarily be awarded to the lowest bidder. The Bank, when analyzing the tender, will keep in mind the delivery and support services provided by the chosen company. For products and services tendered:

#### **Delivery Services consists of:**

- 1. Availability Management Ensuring the solution will have a 99.99% uptime.
- 2. Capacity Management The Bank will look at solutions that have growth potential.
- 3. Continuity Management The solution should incorporate a Disaster Recovery Plan in action.





- 4. Service Level Management The Bank might establish a modular service level agreement for the support and maintenance of equipment.
- 5. Financial Management provide solutions which are competitive and practical.

#### **Support Service consists of:**

- 1. Service Help Desk. Central point of contact for logging calls.
- 2. Incident Management Process of restoring a disrupted service.
- 3. Problem Management Process of diagnosing the cause of the incident and preventing them in future.
- 4. Change Management Process of handling change efficiently.
- 5. Release Management Process of managing new versions of software and hardware and firmware.
- 6. Configuration Management Process of managing all components of the infrastructure.