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**TERMS OF REFERENCE FOR THE SUPPLY OF CISCO  
ROUTERS & SWITCHES INCLUDING LICENSES**

**TENDER NO: 01/2022**

## 1.0 PURPOSE

The main objective of this Tender is the supply, installation and configuration of servers. The servers host critical systems and data, hence the requirement for this Tender.

## 2.0 BACKGROUND

The Maritime Safety Authority of Fiji (MSAF) is currently in the process upgrading its network infrastructure. MSAF is currently utilizing the ISP MPLS infrastructure for communication. The transition will bring MSAF forward to a modern setting in terms of infrastructure and upgrading its network and security.

### Current Network Infrastructure

The MSAF infrastructure comprises of L2 switching and MPLS connectivity throughout Fiji.

## 3.0 SCOPE OF WORK

MSAF is seeking the services of a reputable ICT company to supply new Cisco Routers and Switches as specified below:

CISCO 1101-4P ISR SPECIFICATIONS	
Description	ISR 1101 4 Ports GE Ethernet WAN Router
PHYSICAL PROPERTIES	
Dimensions (H x W x D)	1.1 x 7.5 x 6.0 inches (27.9 x 190.5 x 152.4 mm)
Weight	.86kg (860 grams)
AC Power Input Voltage	Universal 100 to 240 VAC
Frequency	50 - 60 Hz
Max Output Power	30W (Default)
Console Port	Micro USB console (USB 3.0) / RJ45 Port
WAN GE	1
LAN GE	4
Default & Max DRAM	4GB
Default & Max Flash	4GB

CISCO ISR 4451-X/K9	
Aggregate Throughput	1Gbps to 2Gbps
Total Onboard WAN/LAN Ports	4
RJ 45 Ports	4
SFP Based Ports	4
Enhanced Service Module (SM-X) Slot	2
Network interface Modules	3
Onboard ISC Slot	1
DDRM (Data Plane)	2GB
DDRM (Control / Services Plane)	8GB
Flash Memory	8GB
Rack Height	2RU
Dimensions	88.9 x 438.15 x 469.9 mm

CISCO C9200-24T-P	
Downlinks Total GE & PoE+ Ports	24 Ports
Fans	FRU Redundant
Software	Network Essentials
DRAM	4GB
Flash	4GB
Switching Capacity	128 Gbps
Forwarding Rate	190.4 Mpps
Chassis Dimensions	1.73 x 17.5 x 13.8 in   4.4 x 44.5 x 35 cm

CISCO C9200-48P-E	
Downlinks Total GE & PoE+ Ports	48 Port Full PoE
Fans	FRU Redundant
Software	Network Essentials
DRAM	4GB
Flash	4GB
Switching Capacity	176 Gbps
Forwarding Rate	261.9 Mpps
Chassis Dimensions	1.73 x 17.5 x 13.8 in   4.4 x 44.5 x 35 cm

The successful tenderer will indicate if the current inventory is sufficient to cater for the request or will require some time to import them. Also, please provide a timeline on when the devices will be in the country.

MSAF will in turn provide all necessary information in accordance with the timeline above.

The parties will be expected to have a sign off an acceptance when the changeover is complete.

**The specific objectives are:**

- To supply:
  - Routers
  - Switches
  - SMARTnet
  - Network Essentials Licenses

**4.0 KEY DELIVERABLES**

The successful tenderer to undertake the project is expected to deliver the following:

1. Confirm on current inventory is sufficient to supply
2. Timeline on importation of the devices

**5.0 TECHNICAL PROPOSAL**

5.1 Based upon the scope of the assignment, the company is expected to submit along with its tender proposal, an implementation schedule, a brief proposal describing their project approach and methodology if awarded the contract. Bidders should demonstrate professional competency in their tender submissions.

5.2 Bidders must be able to demonstrate their capability to produce work of the highest quality through the submission of past work and at least two references from their present clients.

The Technical Proposal should clearly and specifically cover but not necessarily be limited to:

Criterion	Percentage
Interpretation of the Terms of Reference: Demonstrations of the understanding of the work to be done, a proposed work approach and methodology	25%
Creativity: A proposed plan on how the new servers will be setup and data migration from old ones. Server make and model should be specified	20%

Capacity: Copies of the completion of similar projects or recommendation from previous clientele.	30%
A detailed work plan, which must include clear timetable/ schedule of the work activities that will be performed	25%

## 6.0 COPYRIGHT & INTELLECTUAL PROPERTY RIGHTS

6.1 In consideration of the fees paid, the company expressly assigns to MSAF any copyright arising from the works the company produces while executing this contract.

6.2 The tenderer may not use, reproduce or otherwise disseminate or authorize others to use, reproduce or disseminate such works without prior consent from MSAF.

## 7.0 REPORTING

The successful tenderer will work closely with MSAF's Senior Systems & Network Administrator  
For more information on the technical information in this TOR contact: Aleshni Deo  
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