

 Eskom National Transmission Company South Africa TM	Technical Evaluation Criteria for Mobile Devices to be used for Maintenance execution	NTCSA/Asset Management/ Real Estate/
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1. Introduction

This document outlines the Technical Evaluation Criteria to be adopted by NTCSA evaluation Team when evaluating the tender submissions for mobile units (Tablets) to be used for SAP PM execution.

2. Supporting Clauses

2.1 Scope

This document sets out the standardised criteria to be used when evaluating mobile units (Tablets) as specified below:

- Desktop Evaluation – To ensure compliance with all the requirements set out in the criteria.
- Sample Evaluation – To ensure sample is physically tested and it meet all the for software and security requirements

2.1.1 Purpose

The purpose of this document is to ensure that all technical evaluators use the same method when Evaluating the tender submissions.

2.1.2 Effective date

This document becomes effective upon approval and signature by the authorized parties.

2.2 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1]. ISO 9001 Quality Management Systems SANS 10400: The application of the National Building Regulations
- [2]. Occupational Health and Safety Act (OHSA), No. 85 of 1993

2.3 Definitions

IP67 rated: the device it can withstand a short immersion in water up to 1m and offers complete protection from dust particles

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2.3.1 Document

The document is set to outline the minimum requirements for evaluating mobile unit tender

2.4 Abbreviations

Abbreviation	Explanation
mAH	milliAmpere-hour
HDMI	High-Definition Multimedia Interface
GPS	Global Positioning System
HDR	High Dynamic Range
RAM	Random Access Memory
SSD	Solid-State Drive
SANS	South African National Standards
LED	Light Emitting Diode

2.5 Roles and Responsibilities

IT Manager – shall ensure devices are tested to meet all Eskom security risks.

Procurement Manager - shall ensure that this document is made available to the prospective tenderers.

Technical Evaluation Team - shall ensure that this technical evaluation document is implemented for evaluation of suppliers that wish to provide a service

3. Functional Requirements

3.1 Evaluation Criteria

The evaluation criteria described in the following sections should be used to evaluate any service provider that wishes to provide NTCSA with the device that meet all the required specifications

The evaluation will be conducted in two consecutive stages, i.e. Stage 1: Desktop evaluation and Stage 2: Sample Evaluation

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	Evaluation Criteria/Question	Description	Weight	Desktop score	On site score	Breakdown score	Tenderer Response	Tenderer Comments
	Rugged Maintenance Tool							
	Desktop Evaluation: Tenderers must achieve a minimum threshold of 85% to be eligible for further evaluation							
1	Rugged Device tool with Memory/Disk: 12 GB LP-DDR3, Storage: 256 GB and greater, Operating System: Android 11 and above to the (latest) .Screen Resolution: 8.1 to 10 inch Processor: Octa core and Above of maximum Weight of 800g, with Battery life, 5000 mAh Li-Ion or greater Device to have an extended warranty (In total 2 Year warranty)	Screen to be 8.1 - 10.1 Inch Tablet full HD touch screen	15			8. 1-10.1 inch and Full HD touch screen=15 points Less than 8.1 inch = 0 points		
2	Rugged Tablet Built in Battery : Hot-swappable Li-Ion Battery Pack: Standard battery: 10000 mAh) or greater	The device to have a capability of hot swapping the battery in field. Battery life to last up to 8 Hours and more	15			8 Hours or more= 15 Points between 4 -7 Hours = 10 points Less than 3hours = 0 points		
3	Connections to the tool	Meet IP 69 Standard and above. 2 USB Ports. 1 VGA, MicroSD Slot and Audio/ Microphone. Docking Connector	5			Meets IP 69 plus connections = 5 IP 67 plus connections = 3 Less than IP 67 plus connections = 0		
4	Communication to the tool	Audio: Speaker / Digital Microphone / Headset jack Integrated BT Cellular (WWAN): Have LTE , HSPA+ and GSM/GPRS Wireless LAN: Dual Band 2.4/5GHz	2			All required, if any is missing, it's a 0 Point		
5	Navigation	Integrated Built in GPS with capability to connect the external GPS Stylist pen 1VGA/HDMI MicroSD Slot support up to 2TB	5			All required, if any is missing, it's a 0 Point		
6	Built in Camera installed on the tool. Camera with geo tagging and Augmented Reality-assisted damage assessment.	>50 megapixel wide and 12Megapixel ultra-wide camera + LED flash, panorama, HDR	8			Less than 40 megapixels with LED flash= 2 40-50 megapixel with LED Flash = 5 Greater than 50 Megapixel with LED flash=8		
7	External Battery	The battery should be chargeable from a car, officer at 12v DC or 220V AC	5			All required, if any is missing, it's a 0 Point		
8	Operating Environment	Operating: - 25 °C (-13 °F) to 55 °C (131 °F) Storage: -40 °C to 70 °C (-40 °F to 158 °F) Drop: 26 drops from 1.8 m (4 ft) to concrete	5			Less than specified operating Conditions is 0. In between the operating environment condition is 3. Greater than or same		

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		Vibration, Sand & Dust: IP67 OR IP67, Water: IP67 or IP69, Humidity: MIL-STD-810				as specified operating condition is 5		
9	Weight	600g to 900g	5			600g or less = 5 Points 800g to 900g = 2 points >900g = 0 points		
10	Internal Memory / Disk	256GB SSD and more. 12GB of DDR3 RAM and more	5			Less than specified operating system Conditions is 0. In between the operating system condition is 3. Greater than or same as specified operating condition is 5		
11	External Memory	To be able to connect 2TB Hard drive	5			Less than specified operating system Conditions is 0. In between the operating system condition is 3. Greater than or same as specified operating condition is 5		
12	Operating system	OS: Android 13 and higher	5			If it cannot operate in any android = 0 Android 11 = 2		

						Android 12 = 3 Android 13 and greater = 5		
13	Rugged Tool Accessories							
14	Shoulder Carrier or Handle strip for a device	Adjustable Carrier and lockable	5			Strips locking and tight = 5 Loose hand strip and non-lockable = 0		
15	Barcode 2D/3D Scanner		5			No Barcode = 3 2D Barcode = 4 3D Barcode = 5		

	Sample Evaluation Note: If the device fails these criteria, it will be disqualified regardless of the bottom-line score rating							
16	Handheld Testing and accessories in the operational Environment	Suppliers that have passed desktop evaluation will provide Eskom with one tablet to Install the application for testing, compatibility and ruggedness in the field (drop test; water test; etc.	10			Tablet will be dropped and emerged in water for 1 minute, no cracks expected or malfunction. Application software to work and be able to download = 10 point (Is tested with supplier present) If the tablet malfunction when performing harshness and rugged test, and cannot work properly (Is tested with supplier present) = 0 Point		

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4. Acceptance

This document has been seen and accepted by:

Name	Designation
Ernest Sikupela	Middle Manager Real Estate
Phelokazi Nqwelo	Middle Manager Real Estate
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5. Revisions

Date	Rev.	Compiler	Remarks
September 2025	0	Conny Mnisi	New Technical Evaluation criteria document

6. Development Team

The following people were involved in the development of this document:

- Conny Mnisi
- Kagiso Senosi

7. Acknowledgements

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