

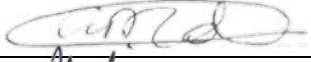
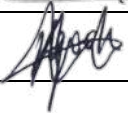

ANNEXURE A :
TECHNICAL SPECIFICATION

TE-IMS-PEMM P&E KDS-SPEC-370

Description: (Specification for the supply of new handheld Test Equipment for PD Business at Koedoespoort Depot).				
Compiled By:	F.A. Herselman		Date:	29/11/2022
Recommended By:	M. Kgoahla		Date:	01/12/2022
Approved by:	A. Ndamase		Date:	2022/12/01
Business Acknowledge:	P. Kopper Andile Nqodi		Date:	2022/12/02
Local Business:	PD (Product Development)			
Location:	Koedoespoort Depot			

Type text here

Contents

1. Scope of Work.....	3
2. Site Inspection	3
3. Information Required	3
4. Technical Requirements:	3
5. Codes of Practice, Regulations & Standards:	3
6. Operational Parameters:.....	3
6.1 Environment:.....	3
7. Testing:	4
8. Specific Requirements:	4

1. Scope of Work

This specification requirement covers all the requirements that will be needed to inform the supplier/vendor/manufacture to carry out what is expected from him/her:

This specification states the minimum requirements relating to the work and in no way absolves the contractor from responsibility for sound engineering practice.

The contractor shall supply all equipment.

2. Site Inspection

Not applicable for this tender.

3. Information Required

Tenderers shall confirm that the items that they are offering comply at a standard not less than the minimum required requirement asked for in the specifications. Tenderers must comply with these specifications, but alternative offers may, in addition, also be submitted. Such alternative offers must be fully motivated and substantiated.

4. Technical Requirements:

All equipment whether detailed in this specification or not shall comply with the requirements of the Occupational Health and Safety Act 85 of 1993 as amended. Sudden power losses will not have an adverse effect on equipment and shall not unduly delay return to operation after power is restored.

5. Codes of Practice, Regulations & Standards:

The tenderer shall specify which statutory, or industry rules will be applied for the equipment to be working successfully and safely and shall indicate the designed life span.

6. Operational Parameters:

6.1 Environment:

The equipment will be required to operate in the climatic conditions of Pretoria in Gauteng.

7. Testing:

The tenderer shall indicate the performance/s standard which the equipment will be subjected to.

8. Specific Requirements:

	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
	Specification for the supply of new handheld Test Equipment for PD Business at Koedoespoort Depot.	
1.	Scope of work:	
1.1	Supply new test equipment for PD Business.	
1.2	Supply calibration certificates for all test equipment.	
2.	PORTABLE SCOPE METER:	
2.1	General:	
2.1.1	Portable, rugged & handheld.	
2.1.2	Rated input voltage: CAT III 1000V / CAT IV 600V – IEC 61010-2-030 compliant.	
2.1.3	Frequency range from DC to at least 500 MHz.	
2.1.4	High accuracy with sampling rates of up to 5 GS/s, 200 ps resolution and deep memory of 10 000 samples per channel.	
2.1.5	Four independent floating isolated input channels (up to 1000V).	
2.1.6	At least 7 hours of battery life.	
2.1.7	Large, bright colour display.	
2.1.8	At least IP51 rated - IEC 60529 compliant.	
2.2	Special Features:	
2.2.1	Store and view historical data and transfer to PC via USB or WIFI.	
2.2.2	Automatic, intelligent triggering for quick viewing.	

	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
2.2.3	Able to view signals in frequency spectrum - Fast Fourier Transform (FFT).	
2.2.4	Recorder function to automatically plot and save trends over long periods.	
2.2.5	Screenshot and save up to 30 000 points per input channel for offsite signal analysis.	
2.2.6	Automatic capture and replay of up to 100 screens.	
2.3	Standard inclusions:	
2.3.1	All associated desktop software to allow for the full intended function of the scope meter.	
2.3.2	Battery pack.	
2.3.3	Power cord / Charger.	
2.3.4	Protective carrying case.	
2.3.5	Hand and/or carrying strap.	
2.3.6	Probes and cable terminators for the channel leads.	
2.3.7	1:1, 10:1 & 100:1 voltage probes.	
2.3.8	400A AC current clamp.	
2.3.9	USB cable and/or WIFI dongle as required to connect to a PC.	
2.3.10	Full-version PC software Windows 10 and Windows 11.	
3.	ADVANCED MOTOR AND DRIVE TROUBLESHOOTING KIT:	
3.1	General:	
3.1.1	One complete dedicated kit for motor and drive trouble shooting.	
3.1.2	Housed in dedicated storage box for ease of travel and use.	

	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
3.2	Kit Content:	
3.2.1	Digital Multi-Meter with insulation test function.	
3.2.2	PI/DAR measurement with trend function.	
3.2.3	Temperature compensation.	
3.2.4	VFD low-pass filter for accurate motor drive measurement.	
3.2.5	Insulation test voltages of 50V, 100V, 250V, 500V, 1000V.	
3.2.6	Auto-discharge of capacitive voltages.	
3.2.7	Frequency / Capacitance / Diode test / Temperature.	
3.2.8	Min/Max / AC/DC Voltages / DC Millivolt / AC/DC Milliamps.	
3.2.9	Auto Power Off.	
3.2.10	Resistance range of 0.1 ohm to 50 Mohm.	
3.2.11	Remote probe, test leads, alligator clips, K-type thermocouple & hard case included.	
3.3	AC Current Clamp:	
3.3.1	Able to measure Ac current from 1A to 400A.	
3.3.2	CATIII 1000V / CAT IV 600V over voltage rating.	
3.3.3	Maximum conductor diameter: up to 32mm.	
3.3.4	Used in conjunction with the Digital Multi-Meter.	
3.4	Phase Rotation Meter:	
3.4.1	For industrial use.	
3.4.2	Large display to easily determine field rotation and phase sequence.	
3.4.3	Indication for all three phases.	
3.4.4	CAT III 600V over voltage rating.	



	REQUIRED	DETAILS OF OFFER Comply (Yes) / Do not comply (No)
4.	Calibration Certificates:	
4.1	All equipment shall be supplied with calibration certificate valued for a period of 12 months.	
5.	General:	
5.1	Any bidder who is sourcing goods or services from third party must "Indicate so via a valid signed agreement with the third party" describing the goods and service in details including the validity period of the agreement.	
6.	Guarantee:	
6.1	The supplier shall guarantee for a period 12 months after delivering test equipment that all equipment is new and fit for the specific purpose which they are purchased, and free from any defects in design, workmanship, and material, and are in strict accordance with the contract, unless otherwise agree in writing.	
6.2	The supplier shall agree to replace at his/her cost any defective items discovered within the guaranteed period.	