

Detail technical evaluation criteria: Procurement of Standard Meter Reference Test Equipment

	Factor	Weight	Sub-factor	Score	Actual Scoring
1	Number of years whereby the company was supplying these test equipment - Three phase reference meters for testing electricity meters and meter installation. Current can be measured directly or via error compensated current clamps. POWER SPECIFICATIONS - Rated voltage 85 to 265 VAC, 45 to 65 Hz 12 VDC Analog inputs - Current meas. - Direct Range - Int. meas. ranges 0 to 5 AAC 100 mA – 1 A – 5 A Current meas. - Current clamps Range Various models - Voltage measurement - Range - Int. measuring ranges 0 to 260 V (line -earth) 65 V – 110 V – 230 V Phase angle Resolution: 0.01° - Frequency Range - Resolution: 5 to 65 Hz 0.01 Hz Measurement error - Power and energy = $\pm 0.2\%$	40%	<3 years	50% of weighting	
			>3 – 5 years	75% of weighting	
			> 10 years	100% of weighting	
2	Technical Specification Features Power supply: - Input voltage 100 VAC ... 240 VAC - Permissible input voltage: 85 VAC ...264 VAC - Frequency range: 50 / 60 Hz - Permissible frequency: 45 Hz ... 65 Hz - Input power 500 VA - Connection Standard AC Socket IEC 60320 Output - Output voltage 0 ... 120 V - Output current 0 ... 5 Aeff (15 Apeak) - Output power 0 ... 400 VAeff (1500 VApeak) Phase displacement - Resolution 0.01 min - Accuracy 1 min (typical) / 3 min (guaranteed) Winding resistance - Resolution 1 mΩ - Accuracy 0.05 % (typical) / 0.1 % + 1 mΩ (guaranteed)	20%	<3 years	50% of weighting	
			>3 – 5 years	75% of weighting	
			>5 years	100% of weighting	
3	Transport and equipment	20%	3 x Test Panel Vans and	100% of weighting	

	DIMENSIONS - Waterproof polycarbonate case - Dimensions (W x H x D) without handle: 355x150x265 mm - Weight: 3.8 kg		necessary equipment available		
4	ENVIRONMENTAL TEMPERATURE - Operating temperature - Storage temperature - Relative humidity - Protection - Safety standard - EMC emissions - Susceptibility 0 to 50°C - 20 to 60°C 5 to 90%, non-condensing - IP20 EN 61010 - 1 300 - V-CAT II EN 50081 - 2 industrials - EN50082 - 2 industrial	10%	Environmental compliance proof	100% of weighting	
5	Accuracy - Range - Int. measuring ranges 0 to 260 V (line -earth) 65 V – 110 V – 230 V Phase angle - Resolution: 0.01° - Frequency Range - Resolution: 5 to 65 Hz 0.01 Hz Measurement error - Power and energy = ± 0.2%	10%	The testing and accuracy of the Trfr test equipment (with SANAS traceability)	100% of Weighting	
	Total	100%			

The threshold on the technical evaluation criteria is 70% overall. Tenders would be deemed technically unacceptable if they score less and will thus not be evaluated further.



Thabo Sithole signed 03/11/2021