

Tehcnical Specifications (F4.1)

[This table will be completed by the tenderer in columns 3, 4, 5, 7 and by the contracting authority - in columns 1, 2, 6, 8]

Tender number:		Date: „__” _____ 20__	Alternativ nr.: _____
Tender name:		Lot: _____	Page: __total page __

Cod CPV	Name of the requested goods / works	Model	Country of Origin	Manufacturer	Technical specifications required by contracting authority	Tehcnical specification proposed by the bidder	Reference standards
1	2	3	4	5	6	7	8
	Goods / Works:						
	Lot1 1						
	Test analyzer for EMC measurements (harmonics and flicker) of AC Power supply according to IEC/EN 61000-3-2, IEC/EN 61000-3-3 standards				<ul style="list-style-type: none"> - The design and technical specifications of the test analyser should be fully compliant to the latest version of IEC/EN 61000-3-2 and IEC/EN 61000-3-3 standards and assure the testing requirements of these standards. - The test system would be designed for harmonics and flicker measurements for single phase lines and current <16A. - The test system would be supplied with stable, accurate and programmable power source compliant to the requirements of IEC/EN 61000-3-2 and IEC/EN 61000-3-3 standards 		IEC/EN 61000-3-2 IEC/EN 61000-3-3

					<p>The power source technical requirements :</p> <ul style="list-style-type: none">- Generated voltage: AC/DC- Frequency range (AC mode): 16-1000Hz- Power output (AC mode): 5000 kVA;- AC Voltage range: 0-300 Vrms;- DC voltage range: 0-300 V;- Harmonic distortion: <1% la 60 Hz, <2% la 400 Hz, <3% la 800 Hz- Output noise: (20 kHz to 1 MHz) <250 mVrms typical, <500 mVrms maximum- Programming accuracy: Voltage (rms): ±0.2% of range Frequency: ±0.01% of programmed value Current limit: ±0.5% of programmed value Phase: <1,5° with balance load- Programming resolution: Voltage (rms): 100 mV Frequency: 0.01 Hz 16–81.91 Hz, 0.1 Hz 82.0–819.1 Hz, 1 Hz 820–1000 Hz Current limit: 0.1 Amps Phase: 0.1°- Output impedance : programmable Resistive Range: 17-1000 mOhm, Resolution: 4 mOhm, Accuracy: 2% FS; Inductive Range: 230-1000 µH, Resolution: 4 µH, Accuracy 2% FS- Source impedance for flicker measurements: according to IEC/EN 61000-3-3 (0.24 Ω + j0.15 Ω in the line		
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					<div>and 0.16 Ω + j0.1 Ω in the neutral).</div> <div><div>- Power output DC mode: 3500 kVA</div><div>- Output noise: (20 kHz to 1 MHz) < 500 mV rms,</div><div>- Arbitrary waveforms generations</div><div>- Over load and over temperature protection</div><div>- Perform following measurements:</div></div> <div><div>Frequency</div><div>16-500Hz</div><div>accuracy \pm 0.01%</div></div> <div><div>Voltage rms</div><div>0-300V</div><div>accuracy \pm 0.5V</div></div> <div><div>Current rms</div><div>0-40A</div><div>accuracy \pm 0.5 A</div></div> <div><div>Crest factor</div><div>0-6.00</div><div>accuracy \pm 0.05</div></div> <div><div>Real power</div><div>0-5kW</div><div>accuracy \pm 20W</div></div> <div><div>Apparent power</div><div>0-5kVA</div><div>accuracy \pm 20VA</div></div> <div><div>Power factor</div><div>0-1.00</div><div>accuracy \pm 0.02</div></div> <div><div>- Harmonics measurements:</div></div> <div><div>Frequency fundamental</div><div>16-500Hz</div><div>resolution 0.01Hz</div><div>accuracy \pm 0.01Hz</div></div> <div><div>Frequency harmonics</div><div>32-48kHz</div><div>resolution 0.01Hz</div><div>accuracy \pm 0.01Hz</div></div> <div><div>Phase</div><div>0-360°</div><div>resolution 0.5°</div><div>accuracy \pm 2°</div></div> <div><div>Voltage</div><div>resolution 10mV</div><div>accuracy \pm 250mV</div></div> <div><div>Current</div><div>resolution</div><div>10mA</div><div>accuracy \pm 50mA</div></div> <div>Coupling unit:</div> <div><div>- The coupling unit would realise the connection of the EUT (equipment</div></div>	
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					<p>under test) to the power source</p> <ul style="list-style-type: none"> - Number of phases: 1 - Measurement channels: 4 - EUT connector: CEE77 and terminal block - Coupling Unit would has integrated IEC 61000-3-3 16 Amp impedance - Maximum voltage: 240VAC - Maximum current: 16Arms - Supply power: <ul style="list-style-type: none"> Voltage 230Vac +/- 10% Current 0.5A Frequency: 50/60Hz - Real time data acquisition unit would has: <ul style="list-style-type: none"> - resolution : 16biti - Speed: 250 kSamples/s - Test analyzer would be offered with SOFTware for data processing, control, displaying and reporting of the test results. Minimal performance are following: <ul style="list-style-type: none"> - Automated test sequences. - User selectable test limits - AC voltage distortion continuously monitored - Voltage and current waveform shown together in real time - Complete test documentation including Word™ and Excel™ compatible data files - EUT description and testing conditions identification can be added to the test report 		
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					<ul style="list-style-type: none"> - The measuring instrument should be compliant to the applicable European technical regulations, safety requirements of the EN/IEC 61010 standard and shall comply with relevant EMC&EMI standards. - The test analyzer should be supplied with the Calibration Certificate issued by the ILAC/EA/APLAC/IAAC (ISO 17025) accredited calibration laboratory. - Calibration certificate shall not be older than 2.5 months from date of delivery to IP SNMFR. 		
	Total lot 1						
	Lotul 2						
	TOTAL						

Signature:_____ Name:_____ The capacity of the signing person: _____

Bidder: _____ Address: _____

Price specifications (F4.2)

[This table will be completed by the bidder in columns 5,6,7,8 and by the contracting authority - in columns 1,2,3,4,9]

Tender number:	Date: „____” _____ 20__	Alternativ nr.: _____
Tender name:	Lot: _____	Pag: __total page __

Cod CPV	Name of the requested goods / works	Unit	Quantity	Unit pice (without VAT)	Unit price (with VAT)	Total value (without VAT)	Total value (with VAT)	Delivery time/ provision
1	2	3	4	5	6	7	8	9
	Goods / Works:							
	Lot 1							
	Test analyzer for EMC measurements (harmonics and flicker) of AC Power supply according to IEC/EN 61000-3-2, IEC/EN 61000-3-3 standards	Buc.	1					2 months from the moment of payment received
	Total lot 1							
	Lot 2							
	TOTAL							

Signature:_____ Name:_____ The capacity of the signing person:_____

Bidder: _____ Address: _____
