



## Request for Quotation (RFQ) for the supply of RFI Surveyor and Motor Analysing System to the CSIR

**RFQ No 9298/17/06/2021**

Date of issue:	02/06/2021
Closing Date and Time:	17/06/2021 2021 at 16h30
Tender submission:	For submission of quotations or enquiries: <a href="mailto:tender@csir.co.za">tender@csir.co.za</a>
Last Day for Inquiries:	09/05/2021

### 1 INVITATION FOR QUOTATION

Quotations are hereby requested for the supply of RFI Surveyor and Motor Analysis System for 2 separate sites to be used in live substation and offline applications as per the following specifications:

### 2 QUOTATION REQUIREMENTS

The system must test, capture and analyse PD, Temperature, Motors, and Transformers.

The system must be able to perform and should have the following features:

- Data interpretation support
- Mobile and Portable instruments < 7kg
- Use RFI technology to identify and locate shortcomings
- Function with sensors, probes and antennae for multiple applications
- Synchronous sampling to provide discrimination of telecommunication carriers, noise and discharge occurrences
- PD presence detection through statistical analysis (PAPR & IPWR) on each spectrum measurement
- Build-in data storage
- Non-invasive inspection for substation surveys
- Software/Instrument to enable the user to record & analyse PD, Temperature, Electrical parameters, winding and connection errors, phase unbalance.

- Include probes and accessories for transient earth voltage for detection of PD activity in metal clad switch gear, connection boxes and transformer tank walls
- Include HF current transformer, hinged 300a Rogowski coil
- Certified Training by authorised dealer for up to 20 people, warranty and support for 12 months

## Minimum Technical specs:

Battery life	> 6 hours
Charging Time	< 3.5 hours
Detection And Sweep Functions	
Detector modes - Peak, Average and Separate Peak and Average Mode (SPAM)	
Sweep modes - Continuous, Counted and Single Mode	
Synchronization - Synthesized phase or wireless synchronized to power frequency	
Frequency/Electrical /Temperature	
Measurement range MHz	50 MHz - 1000
Resolution Bandwidth (RBW)	120 kHz / 6 MHz
Test Frequency	50- 800 Hz
Resistance	0.01 – 999 $\Omega$
Inductance	1 – 999 mH
Impedance	1 – 999 $\Omega$
Temperature	-20 to 1500 degrees C
Phase Angle	50 – 90 degrees C
I/F	-50% - -15%
Display unit	X/Y-axis: ms - MHz / dBm or MHz / dB $\mu$ V
Data Storage And Transfer	
Internal	NV Flash Memory (SD)
External	USB storage class compliant USB Flash Drive / Hard Disk Drive
Data Transfer	USB A/B to and from computer
File Format	XML for use with PDViewer software
Real Time Clock	Battery backed
Lcd Screen	
Display	TFT, 6.4: Transreflective
Size	132 x 100 mm / 5.20 x 3.94 in (W x H)
Resolution	640 x 480 pixels, 256 colors
Backlight	LED

### **3 Additional requirements**

- Clearly indicate VAT charged where applicable (if not VAT registered please state so clearly).
- The offer must state if it meets 100% of the specifications, if not please list deviations.

### **4 Elimination criteria**

- 4.1 Late submission of quotes
- 4.2 Failure to adhere to quotation specifications
- 4.3 Failure to indicate authorised dealership and/or OEM support for RSA use
- 4.4 Failure to be able to provide authorised training and 12 months warranty in RSA.
- 4.5 Submission at the wrong location or incorrect email address (Please submit electronically to tender@csir.co.za)

### **5 EVALUATION CRITERIA**

- 5.1 Selection of suppliers will be based on the 80/20 preference point system.
- 5.2 Indicate valid B-BBEE status on quotation (SANAS). No B-BBEE status will equal zero points.
- 5.3 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use [www.csd.gov.za](http://www.csd.gov.za) to register.
- 5.4 No order will be issued or no contract will be signed without a valid CSD number.

### **6 PRICING QUOTATION**

- 6.1 Price needs to be provided in South African Rand (incl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.
- 6.2 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 6.3 Payment will be according to the CSIR Payment Terms and Conditions.

### **7 OTHER TERMS AND CONDITIONS**

- 7.1 The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any CSIR employee or its representatives. Such an act shall constitute a material breach of the Agreement and the CSIR shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.
- 7.2 A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

- 8 No goods and/or services should be delivered to the CSIR without an official CSIR Purchase order. CSIR purchase order number must be quoted on the invoice. Invoices without CSIR purchase order numbers will be returned to supplier.**
- 9 Note: This is not a Purchase Order.**

**DECLARATION BY TENDERER**

**Only tenderers who completed the declaration below will be considered for evaluation.**

**RFQ No:**

I hereby undertake to render services described in the attached tendering documents to CSIR in accordance with the requirements and task directives / quotation specifications stipulated in RFQ .....at the price/s quoted. My offer/s remains binding upon me and open for acceptance by the CSIR during the validity period indicated and calculated from the closing date of the quotation.

I confirm that I am satisfied with regards to the correctness and validity of my quotation; that the price(s) and rate(s) quoted cover all the services specified in the quotation documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.

I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this quotation as the principal liable for the due fulfilment of this quotation.

I declare that I have no participation in any collusive practices with any tenderer or any other person regarding this or any other quotation.

I accept that the CSIR may take appropriate actions, deemed necessary, should there be a conflict of interest or if this declaration proves to be false.

I confirm that I am duly authorised to sign this quotation.

NAME (PRINT) .....  
CAPACITY .....  
SIGNATURE .....  
NAME OF FIRM .....  
DATE .....

WITNESSES	
1	.....
2	.....
DATE: .....	