CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

CONCILIUM TECHNOLOGIES (PTY) LTD

Co. Reg. No.: 1999/013330/07

Facility Accreditation Number: **506**

is a South African National Accreditation System accredited Calibration laboratory provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying schedule of accreditation Annexure "A", bearing the above accreditation number for

TIME AND FREQUENCY METROLOGY

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2005

The accreditation demonstrates technical competency for a defined scope and the operation of a laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the relevant SANAS accreditation symbol to issue facility reports and/or certificates

_____

Mr R Josias
Chief Executive Officer

Effective Date: 31 January 2017
Certificate Expires: 30 January 2022

ANNEXURE A

SCHEDULE OF ACCREDITATION

TIME AND FREQUENCY METROLOGY

Facility Number: 506

Permanent Address of Laboratory:
Concilium Technologies (Pty) Ltd
1 Stanford Office Park
12 Bauhinia Street
Highveld Technopark
Centurion
0157

Postal Address:
P O Box 67611
Highveld
0169

Tel: (012) 678-9200
Fax: (012) 665-4160
E-mail: bart_bremmer@concilium.co.za

Technical Signatories: Mr BJH Bremmer, Mr GD Schuster

Nominated Representative: Mr BJH Bremmer

Issue No.: 13
Date of Issue: 27 March 2018
Expiry Date: 30 January 2022

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)
1	Frequency	Specific values 1 MHz; 5 MHz; 10 MHz	$1 \cdot 10^{-12} \cdot f$
		100 kHz	$1 \cdot 10^{-10} \cdot f$
		Other values 2 mHz to 10 GHz 10 GHz to 40 GHz 40 GHz to 50 GHz	$1 \cdot 10^{-9} \cdot f$ +100 µHz $1 \cdot 10^{-10} \cdot f$ $1 \cdot 10^{-9} \cdot f$
2	Time Interval Average	0 to 10 s	$1 \cdot 10^{-7} \cdot t$ + 2 ns

Original Date of Accreditation: 1980

The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager