Independent Communications Authority of South Africa
350 Witch-Hazel Avenue, Eco Point Office Park, Eco Park, Centurion
Private Bag X10, Highveld Park, 0169

Radio Equipment Type Approval Certificate

EQUIPMENT TYPE APPROVAL NUMBER

TA-2024/1083

The Authority, in the exercise of the powers conferred upon it by section 35 (1) of the Electronic Communications Act, 2005 (Act 36 of 2005), the applicable radio regulations which currently remains in force in terms of section 95 (2) of the Electronic Communications Act and subject to the terms and conditions set out in this document (see overleaf), hereby issues a radio equipment type approval certificate to the company whose name and particulars are listed below:

Company Particulars

Name :	**SYSTEM DESIGN EXPERTS**
Street Address :	**32, KERSIEBOOM CRESCENT, ZWARTKOPS EXT4, CENTURION, 0157**
Telephone Number :	**0126635515**
Registration Number :	**2019/091723/07**

Description of Apparatus

Name :	**Amplitec**
Category :	**Mobile Network Equipment**
Model :	**C20L-GSM**
Frequencies :	**GSM:**
	900(TX)
	GSM:
	1800(TX)
	WCDMA:
	FDD I(TX)
	FDD VIII(TX)
	LTE BS:
	FDD 1(TX)
	FDD 3(TX)
	FDD 7(TX)
	FDD 8(TX)
	FDD 20(TX)
ITU Emission Code :	**GSM: G7W**
	GSM: G7W
	WCDMA: D7W
	LTE BS: D9W
Modulation :	**GSM: GMSK**
	GSM: GMSK
	WCDMA: QPSK
	LTE BS: QPSK, 16QAM, 64QAM
Power Output :	**GSM: 33 dBm**

C Mushi (Acting Chairperson), T Faye, Y Kedama, Dr. C Lewis, Adv. LS Mkumatela, N Nontombana, N Sithole, P Zimri (Councillors), T Maluleka - Disemelo (CEO)

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	GSM: 30 dBm
	WCDMA: 24 dBm
	LTE BS: 23 dBm
Channel Spacing :	**GSM: 200 kHz**
	GSM: 200 kHz
	WCDMA: 5 MHz
	LTE BS: 5 MHz
Features :	**-**
Label Option :	**Order from ICASA**

DATE ISSUED: 2024-06-26

Only the original or a certified copy of the radio equipment type approval certificate shall be considered valid.

C Mushi (Acting Chairperson), T Faye, Y Kedama, Dr. C Lewis, Adv. LS Mkumatela, N Nontombana, N Sithole, P Zimri (Councillors), T Maluleka - Disemelo (CEO)

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Supplementary conditions for radio frequency type approved equipment

This certificate is issued subject to the conditions, procedures and instructions as detailed hereunder and must be adhered to:

1. Standard Conditions

1.1 The certificate holder will be obliged to effect, at his/her own expense, any modifications that may be required in order for the type approved equipment to comply with the latest technical specifications issued by the independent Communications Authority of South Africa (ICASA) from time to time.

1.2 All marketed equipment of the same make and model, shall have the same technical and operational characteristics as the evaluated sample(s) that may have been prescribed by ICASA.

1.3 The certificate holder shall not modify type approved equipment or add any facility to it that will cause it to deviate and/or alter its functioning as was evaluated in 1.2 above, nor shall he/she allow any other person to do so, without the written consent of ICASA.

1.4 Should it be found at any time that a type approved equipment is found to be defective and its functioning differs fundamentally to the one evaluated in 1.2 above, the certificate holder will bear the cost of a retest at ICASA's test house/laboratory of choice and ICASA will revoke the type approval certificate.

1.5 This type approval certificate is not transferable and the holder shall not transfer it to any other person or entity, nor surrender it in any other way in favour of another, except with the written approval of ICASA.

1.6 Only South African companies/entities will be the primary holders of the type approval certificates. They will be our first port of call should anything unforeseen emerge with respect to the type approved equipment.

1.7 This type approval certificate does not grant exclusive rights to the current holder. ICASA reserves the right to issue the same certificate to any other person who satisfies our type approval requirements.

1.8 The certificate holder or his agent(s) shall not verbally or otherwise intimate to any person that ICASA sponsors or recommends in any way, the use of particular equipment. However, the licensee may inform potential customers by means of advertising, that he/she is in possession of a valid type approval certificate issued by ICASA for particular equipment. The certificate holder shall have the original or a certified copy of the certificate, available at every point of sale and shall produce same on request.

1.9 Should it be found that faulty RF equipment affect the efficient use of spectrum, ICASA will take necessary steps, as it deems fit and as provided by the Electronic Communications Act to protect other spectrum users.

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