



# **PUBLIC NOTICE**

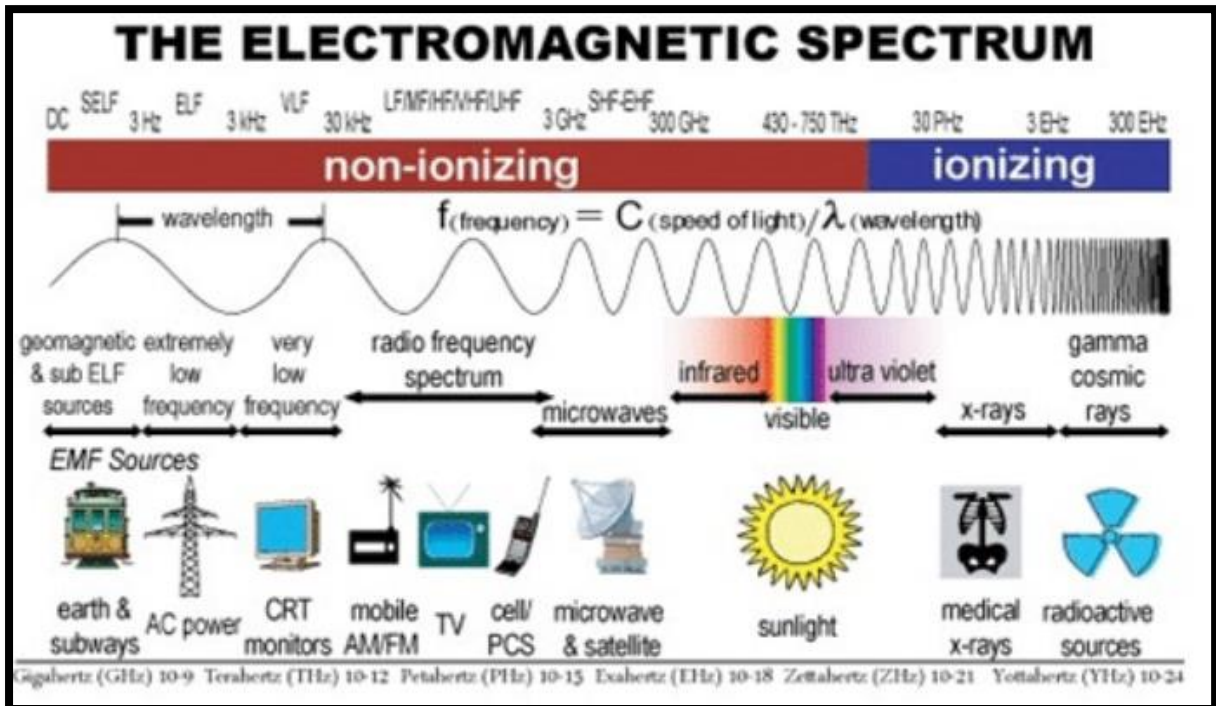
## **Information on Safety of GSM Mobile Frequencies**

### **Introduction:**

The purpose of this notices to address concerns regarding the safety of GSM mobile frequencies in the vicinity of Port Vila Area and the neighbouring areas. The radiofrequency spectrum is a vital resource for the development of Vanuatu and the welfare of its people. Spectrum is a finite but non-exhaustible resource which is a vital enabler and input into an ever-widening range of new and innovative services. This vital spectrum resource needs to be managed carefully, appropriately, efficiently and effectively, in the public interest, if its potential is to be realized and utilized. With the installation of a tower nearby, individuals understandably seek assurance regarding potential health risks associated with exposure to these frequencies. This short notice aims to provide comprehensive information regarding the safety of GSM (Mobile) frequencies and their impact on human health.

### **Understanding GSM Mobile Frequencies:**

GSM (Global System for Mobile Communications) is a widely-used standard for mobile telecommunications. It operates within specific frequency bands allocated by regulatory authorities, typically in the ranges of 900 MHz and 1800 MHz. These frequencies are part of the electromagnetic spectrum, which encompasses various forms of radiation, including radio waves, microwaves, and visible light. See below the frequency range with their usage.



### Safety Regulations and Guidelines:

The safety of GSM frequencies is governed by regulatory bodies such as the International Commission on Non-Ionizing Radiation Protection (ICNIRP) and national regulatory agencies.

These organizations establish safety guidelines based on scientific research to ensure that exposure to electromagnetic fields remains within safe limits.

### Non-Ionizing Radiation:

GSM frequencies fall within the category of non-ionizing radiation. This type of radiation does not carry enough energy to ionize atoms or molecules, meaning it cannot cause cellular damage or induce mutations in DNA. Non-ionizing radiation includes radio waves, infrared radiation, and visible light, all of which are widely present in our environment without posing significant health risks.



### **Health Effects and Scientific Research:**

Extensive scientific research has been conducted to assess the potential health effects of exposure to GSM frequencies. The consensus among health authorities and scientific organizations is that exposure to radiofrequency fields from GSM mobile networks, within regulatory limits, does not pose a significant risk to human health.

### **Conclusion:**

In conclusion, GSM mobile frequencies, operating within the allocated frequency bands and regulatory limits, are considered safe for human usage. These frequencies fall within the non-ionizing range of the electromagnetic spectrum and do not possess sufficient energy to cause biological harm. The installation of any communication tower around the vicinity of Port Vila or any neighbouring areas should not raise concerns regarding the safety of GSM frequencies.

Should you have any further questions or require additional information, please do not hesitate to contact Manager Technical Department on email Enquiries <[enquiries@trbr.vu](mailto:enquiries@trbr.vu)> or by Calling TRBR office on **Telephone Number 27621**.