



CITC Technical Specification

Document Number: RI002
Revision: Issue 3
Date: 04/03/2020 G

Specification for GSM Base Stations

Issued by The Communications and Information Technology Commission of Saudi Arabia in accordance with article 89 of the Telecommunications Bylaw.

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Scope

All base stations, repeaters and related terminal equipment equipped with a GSM interface must comply with this technical specification. If more than one interface type is offered by a piece of equipment, each interface must comply with the applicable technical specifications.

Entry into Force

This specification shall enter into force on 04/03/2020 G.

Frequency of operation

Following table is giving information on frequency bands, maximum output power and applicable specification

Frequency Band RX Base Station	Frequency Band TX Base Station	Maximum Output Power or Magnetic Field	ETSI Standard
880-915 MHz	925-960 MHz	40 W e.r.p.	EN 301 502
1710-1785 MHz	1805-1880 MHz	40 W e.r.p.	EN 301 502

Proof of compliance

For GSM base stations, repeaters and related terminal equipment, it is required to obtain type approval from CITC with test reports issued by a laboratory that has been accredited by a body that is a member of the ILAC Mutual Recognition Arrangement.

Technical requirements

Testing must be carried out to ensure compliance with relevant harmonized ETSI standards for GSM including the following specifications:

EN 301 489-1

Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU

EN 301 489-50

Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

EN 301 502

Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/E.

If no issue or revision number is quoted along with the title of a technical specification, the latest published version should be used.

General

In addition to meeting the above requirements, all equipment must comply with the requirement of CITEC specification GEN001, be safe and must not adversely affect other electrical equipment.

Additional requirements

A licence must be obtained before equipment of this type can be used.

Obtaining Technical standards

ETSI technical standards can be obtained from the ETSI website www.etsi.org.

Network information (only for network interfaces)

Further information on the characteristics and presentation of network interfaces can be found by visiting operator's website.

Document History

Description	Status	Data
	Issue 1	11/03/2006 G
	Issue 2	10/01/2010 G
	Issue 3	04/03/2020 G