**Annexure-A**

**STANDARDS FOR DIFFERENT TESTS IMEI AND IMEI REGISTRATION**

All mobile phones must comply with ITU-T and European (e.g) ETSI standards and Mobile Equipment should comply with the essential requirements & standards of the European Directive 1999/5/EC with respect to:

* Electromagnetic Compatibility
* Interoperability
* IMEI
* Safety Requirements i.e. Mobile Phones are required to comply with a Specific Absorption Rate (SAR) limit of 2 W/Kg of tissue (average over 10 gm).

**STANDARDS**

I - Radio Communication Standards

* **EN 301 511: V7.0.2** / ETSI

Global System for Mobile communications (GSM); Harmonized standard for mobile stations in the GSM 900 and DCS 1800 bands covering essential requirements under article 3.2 of the R&TTE Directive (1999/5/EC).

***Notice: -*** In the case of 3G Mobile phones the following standards are also requested:

* + **EN 301 908-1**
  + **EN 301 908-2**

**In case of GMPCS**

* **ETSI EN 301489-1 for 1.5/1.6 GHz**
* **ETSI EN 301489-17 for 2.4 ,5 GHz**

II - Electromagnetic Compatibility Standards

- **EN 301 489-01**: v1.3.1 / v1.4.1

Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services.

* **EN 301 489-0**7: v1.1.1 / v1.2.1

Specific EMC conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS) 900/1800 Bands.

I I I- Safety Standards

1. European council Recommendation 1999/519/EC Council recommendations on the limitation of exposure of human beings to Electromagnetic field.

**For GMPCS**

Safety: IEC 60950-1

- Specific Absorption Rate (SAR Test)

**EN 50360 / CENELEC** - SAR Limit standard

Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields.

**EN 50361 / CENELEC** SAR Measurement Method standard

1. EN 60950 Safety of Information technologies Equipment.
2. EN 62209-1: 2005

IV. Interoperability

1. ETSI EN 301502 Harmonized EN for GSM
2. ETSI EN 301511

**IMEI GSMA Registration Certification**:

The IMEI number assigned to each mobile phone must comply with the GSM standards specified in ***3GPP TS 23.003.* For GSM mobile phones regarding all Type Allocation Codes (TAC) (first eight digits of IMEI number) of the mobile phone allocated to the manufacturer by GSMA. *Applicant is required to provide Certificate of IMEI allocation from GSMA Association.* List of IMEI allocation bodies as per GSMA association is as under:**

|  |  |
| --- | --- |
| **S.No.** | **Allocation Body** |
| 1 | CTAI (USA) |
| 2 | BABT (UK) |
| 3 | TAF (China) |
| 4 | MSAI (India) |

Note: Applicant is required to provide complete set of test results which are carried out by accredited test Laboratories of the world and a declaration of conformity or Certificate of Compliance. Details of Accredited Test Labs are available on PTA website.