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No: 800- 15/2010-VAS
Government of India
Ministry of Communication & IT
Department of Telecom
Access Services Cell
Sanchar Bhawan, Ashoka road New Delhi

Date: 8th April, 2010

To

All CMTS/ UAS Licensees

Sub: Instructions to Service Providers on implementation of radiation norms on EMF exposure by Base Transceiver Stations (BTSS)

This is with reference to conditions of the License Agreement amendment dated 4th November 2008, regarding implementation of ICNIRP guidelines regarding the emission by Base Transceiver Stations (BTSS) as below:

"Licensee shall conduct audit and provide self certificates annually as per procedure prescribed by Telecommunication Engineering Centre (TEC)/or any other agency authorized by Licensor from time to time for confirming to limits/levels for antennae (Base Station Emissions) for general public exposure as prescribed by International Commission on Non-Ionizing Radiation Protection (ICNIRP) from time to time. The present limits/levels are reproduced as detailed below:

Frequency Range	E-Field Strength (Volt/Meter (V/m))	H-Field Strength (Amp/Meter (A/m))	Power Density (Watt/Sq. Meter (W/Sq.m))
400MHz to 2000MHz	$1.375f^{1/2}$	$0.0037f^{1/2}$	$f/200$
2GHz to 300GHz	61	0.16	10

(f = frequency in MHz)

Note: The compliance in the form of Self Certificate shall commence six months after the date of issue of prescribed test procedure by TEC or any other agency authorized by Licensor."

2 TEC has since issued the test procedure No. TEC/TP/EMF/001/01.SEP-2009 which has been intimated to the Licensees vide letter dated 09.11.2009.

3. In view of the above, following instructions are issued for meeting the ICNIRP guidelines:

- (i) All existing BTSS should be ICNIRP guidelines compliant by 08.05.2010 as the TEC test procedure has been circulated on 09.11.2009. Therefore, all BTSS should be self certified as meeting the radiation norm. Self certification should be submitted to respective Telecom Enforcement Resource & Monitoring (TERM) Cells of DOT by 15.05.2010.


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- (ii) All new BTS sites should start radiating only after self certificate has been submitted to relevant TERM Cells.
- (iii) The TERM Cell will test up to 10% of new BTS sites randomly at its discretion. Additionally, the BTS sites against which there are public complaints, shall also be tested by TERM Cell. The testing shall be done as per procedures prescribed by Telecom Engineering Center (TEC) from time to time.
- (iv) The cost of test for audit of EMF exposure from BTS shall be borne by the Mobile Service Operator, which shall be Rs. 10, 000 (Rs. Ten Thousands only) for one site/per Service Provider.
- (v) Tools and equipments for testing would be provided by the concerned Mobile Service Provider to the TERM cell.
- (vi) If a site fails to meet the EMR criterion, a penalty of Rs. 5 lakh shall be levied per BTS per service provider. Service providers must meet the criterion within one month of the report of TERM cell in such cases, after which the site will be shut down.
- (vii) The BTS site details would be hosted on Telecom Engineering Center (TEC) website on submission of self test and registration with TERM cell, giving the test result and mentioning that the BTS site is self certified by the service Providers. Nature of compliance will be mentioned against each BTS i.e. self certified, TERM certified and not certified. After the BTS site has been tested by TERM cell, status of the BTS site will be changed to be "TERM certified".
- (viii) The service providers also have the option of getting all the BTS sites tested from TERM cell by paying the requisite fee. TERM cell will test such sites at their discretion depending upon the availability of resources with them. If they are not able to test such sites either the test fee shall not be accepted or will be refunded within a month's time, if a commitment to test the site within next 6 months is not given.

4. The Mobile Service Providers are advised to adopt following ten best practices in regard to guidelines for public exposure of Electromagnetic Fields for Base Transceiver Stations:

- (i) Include ICNIRP compliance as recommended by the TEC in their planning exercise for radio base station.
 - (ii) Assess all radio base stations for international (ICNIRP) compliance as recommended by the TEC for public exposure.
 - (iii) Produce a programme for this compliance as recommended by the TEC for already existing sites also.
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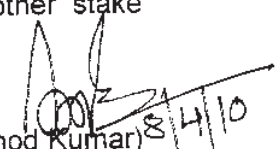
- (iv) Provide a database of information, which is available to the public on radio base stations.
- (v) Respond to complaints and enquiries about radio base stations, within ten working days.
- (vi) Financially support the Government's independent scientific research programme on mobile communications health issues.
- (vii) Develop clear standards and procedures on the issue after consultation with local communities and other stakeholders.
- (viii) Participate in pre-rollout and pre-application consultation with local planning authorities.
- (ix) Publish clear, transparent and accountable criteria and cross-industry agreement on site sharing, which should be updated and published regularly.
- (x) Establish professional development workshops on technological developments within telecommunications for public and other stakeholders.


(Vinod Kumar) 8/4/10
Director (AS-II)

Copy to:

1. Wireless Advisor, WPC Wing, DoT, New Delhi
 2. Sr. DDG, TEC, DoT, New Delhi
 3. Sr. DDG (WPF), DoT, New Delhi
 4. DDG (Security-TERM)/ DDG (Security)/ DDG (LF), DoT, New Delhi
 5. DDG (C&A) for posting on DOT website.
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