

Government of India
Ministry of Communications
Department of Telecommunications
Wireless Planning & Co-ordination Wing

6th Floor, Sanchar Bhawan,
20, Ashoka Road, New Delhi - 110 001.

No.: L-14010/03/2014-NTG

Date: 19.06.2018

Office Memorandum

**Subject: Rationalisation of permissible maximum RF transmitted power output/
EIRP for WCDMA and LTE base stations.**

A number of representations have been received in the Department from the telecom operators to review the level of permitted maximum RF power output/EIRP of a Base Station, necessitated by the advancement of technologies and the improvement in the spectrum efficiencies. The issues raised have been addressed, deliberated and after taking into consideration various aspects including the global practices, it has been decided to rationalize the permissible maximum RF transmitted power output/ EIRP of the base stations.

2. Accordingly, the following revision in permissible RF power limits is approved with immediate effect for the respective technology as shown in the following table:

Sl. No.	Technology	Bandwidth	Maximum radiated power (EIRP)
1.	WCDMA	5 MHz	63 dBm per carrier
2.	LTE/LTE-Advanced	Up to 5 MHz	63 dBm
		10 MHz /20 MHz	66 dBm

2.1. Base stations deploying GSM/CDMA technology may continue to transmit the same maximum power as allocated through WPC assignment letters.

2.2. The operators are free to deploy any MIMO configuration within the limits, as specified above.

3. This revision in permissible RF power limits is subject to compliance with the EMF exposure limit prescribed from time to time by Department of Telecom.

3.1. This revision in permissible RF power limits would not reduce transmitted RF power already assigned to operators in any of the frequency bands.

3.2. This revision in permissible RF power limits is as an interim measure and may be revisited/reviewed when spectrum in other frequency bands is made available for IMT services.

3.3. This revision in permissible RF power limits would be applicable to all the base stations, deploying WCDMA/LTE technologies, irrespective of the frequency bands of operation.

4. This O.M. supersedes all the earlier permissible maximum transmitted RF power specified for base stations, deploying WCDMA/LTE technologies.

5. This revision in permissible RF power limits would not elicit any change in the SACFA clearance unless there is a change in the location of the base station. Further, it may not be required to repeat other regulatory procedures for existing base stations affected by this revision in permissible RF power limits unless it is necessary to do so.



(Neeraj Juyal)

Assistant Wireless Adviser
to the Government of India

To,

- (1) All the Telecom Service Providers.
- (2) Director (WM), WMO, Pushpa Bhawan, New Delhi.
- (3) DDG (TERM), DoT, Sanchar Bhawan, New Delhi.
- (4) DDG (TEC), DoT, Sanchar Bhawan, New Delhi.
- (5) DDG (AS), DoT, Sanchar Bhawan, New Delhi.
- (6) Sr. DWA (ASMS), WPC Wing, with a request to upload in the WPC website.