



Infocom Think Tank_(An)

Autonomous Scientific Body)

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To

The Chairman,
Telecom Regulatory Authority of India (TRAI),
(Kind Attn. Shri Sanjeev Banzal, Advisor, NW, Spect. & Lic.)
New Delhi
Email: advmn@traigov.in

NK Mathur
Chairman
Former I T U Expert

Dr. N BhaskaraRao
Eminent Social
Scientist

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Advisor and Former
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DDG, DoT

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Scientist & Professor

S N Gupta
Hon Secy General
NGN Forum, India

Dear Sir

TRAI Consultation on Microwave spectrum Allocation & Pricing

The Infocom Think Tank is an unbiased group of Telecom Experts & Social Scientist, which deliberate on various issues of national importance. This Group fully recognizes the crucial role played by TRAI in the development and growth of Indian telecom network, including the mobile telephone services. The present consultation is extremely timely for the next phase of the growth of telecom network – the data or broadband network.

In this regard, the Infocom Think Tank has discussed various aspects related to the allocation and pricing of spectrum for microwave access and backbone carriers. Some Important, General aspects, which have a crucial bearing on the whole issue under consultation, are listed below.

The Radio Frequency (RF) Spectrum is a finite natural resource. With its crucial role in mobile communications, which have brought about dramatic growth of phone services in India and in other developing economies globally, large attention has been focused on the RF spectrum.

Due to its limited nature, the RF spectrum has become very important – for economic development as well as for society at large. Optimum use of this limited and scarce resource by all users is inescapable.

Microwave frequency bands are as important as the access spectrum, for the cellular mobile networks. The Microwave carriers are complimentary to the access spectrum, for the cellular network. Like any other parts of frequency spectrum, microwave frequencies are also governed by specific propagation characteristics for different bands.

Technological developments have opened the use of higher frequency bands, taking care of constraints on this resource to some extent. However, the demands

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