

भारत सरकार
अन्तरिक्ष विभाग
उपग्रह संचार व नौवहन कार्यक्रम
अन्तरिक्ष भवन, न्यू वी. ई.एल.रोड,
बेंगलूर - 560 231, भारत
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सत्यमेव जयते

Government of India
Department of Space
**SATELLITE COMMUNICATION AND
NAVIGATION PROGRAMME**
Antariksh Bhavan, New BEL Road,
Bangalore - 560 231, India
Telephone : +91-80-2341 5301
Fax : +91-80-2341 2141

No.SCNP/F.631/12

April 27, 2012

Dear Sir,

**Sub: Allocation of 9 MHz Ku-band capacity in Transponder No.6 on
INSAT-4CR to Indian Railways.**

**Ref: (i) Contract Agreement No.ANTX/VSAT/IRPMU/264A-2010 dated
December 1, 2010.
(ii) DOS Letter No.SCNP/F.631/12 dated April 27, 2012.**

As desired by you, necessary capacity allotment in Ku-band is made to
you vide letter reference (ii) above.

You may kindly note that the billing cycle for allotted transponder will start
from the date of frequency allotment letter i.e., from April 27, 2012.

With regards,

Yours sincerely,

Pl- file on Federal Govt
SK

N. Prahlad Rao
(N. Prahlad Rao)
Director, SCNPO

Deputy CSTE
Indian Railways Project Management Unit
Shivaji Bridge (IRCOT Complex)
Behind Shanker Market
New Delhi - 110001 (Fax: 011 23412556)



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FREQUENCY ALLOTMENT LETTER

No.SCNP/F.631/12

April 27, 2012

Dear Sir,

**Sub: Allocation of 9 MHz Ku-band capacity in Transponder No.6 on
INSAT-4CR to Indian Railways.**

**Ref: (i) Contract Agreement No.ANTX/VSAT/IRPMU/264A-2010 dated
December 1, 2010.**

(ii) DOS Letter No.SCNP/F.631/07 dated October 31, 2007.

This is to inform you that 9 MHz capacity in Ku-band on INSAT-4CR is
allotted to you for VSAT Applications. The details of allotted transponder capacity
are as follows:

Frequency Details:

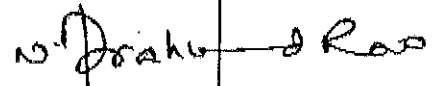
Satellite / Transponder No.	: INSAT-4CR/CH#6
Uplink Frequency / Polarisation	: 14479 to 14488 MHz/Lin.Vertical
Downlink Frequency / Polarisation	: 11679 to 11688 MHz / Lin. Horizontal
Transponder Bandwidth / Bandwidth Allocated	: 36 MHz / 9 MHz
Satellite EIRP under single saturation (EOC)	: 51.5 dBW
Satellite Receive G/T	: +3 dB/K
Operational SFD (Including current OBA)	: -88 dBW/m ²
Input / Output Backoff	: 4/2.5 dB
Max. EIRP available in 9 MHz	: 43 dBW

INSAT-4CR Transponder Allotment – Railways. Dated April 27, 2012

This allocation is subject to necessary WPC/NOCC/SACFA clearances. With this letter, you are requested to approach concerned regulatory authorities to obtain necessary clearances.

With regards,

Yours sincerely,


(N. Prahlad Rao)
Director, SCNP

To:

**Deputy CSTE
Indian Railways Project Management Unit
Shivaji Bridge (IRCOT Complex)
Behind Shanker Market
New Delhi – 110001 (Fax: 011 23412556)**

Cc to:

1. Shri A.K. Kalia, DDG, NOCC (Fax: 011-23329470)
2. Shri V.J. Christopher, DWA (Sat. Coordination), WPC, New Delhi (Fax: 011-23716111)
3. Shri B.V. Kanade, GD, PUC, MCF, Hassan (Fax: 08172 239015)
4. Shri A.S. Mittal, NOCC, Sikenderabad (Fax: 05735 244447)
5. Smt. T.S. Shoba, Director, Technology and Services, Antrix
6. Head Accounts, IFA, Antrix.