

## Annexure - I

### Chronology of events in allocation of satellite capacity to DTH service providers

Date	Event
<b>June 1972</b>	The Space Commission and DOS are created.
<b>1977</b>	Government constitutes the INSAT Coordination Committee (ICC).
<b>1983</b>	INSAT system established with the commissioning of INSAT-1B.
<b>1997</b>	The Union Cabinet approves the SATCOM policy framework.
<b>1997</b>	World Radio Communication Conference <sup>36</sup> (1997) makes changes in filing of orbital slots, their coordination and notification. Introduces due diligence and filing charges to avoid non-serious filings.
<b>January 2000</b>	The INSAT Coordination Committee prescribes practices and procedures to be followed in the allocation of satellite capacity to non-Government users.
<b>January 2000</b>	Government of India approves the SATCOM policy laying down norms, guidelines and procedures for implementation of the policy framework for satellite communication in India.
<b>March 2000</b>	INSAT-3B satellite launched using Ariane-5 (procured launch)
<b>July 2000</b>	ICC clarifies in its 62 <sup>nd</sup> meeting that the private service providers will have the option of using INSAT systems on a non-exclusive basis.
<b>November 2000</b>	Cabinet approves DTH broadcasting service in India.
<b>March 2001</b>	MIB issues guidelines for obtaining licence for providing DTH broadcasting service in India.
<b>2002</b>	Based on the International Telecommunication Union's <sup>37</sup> allotment of frequencies to various countries for various applications, the Wireless Planning and Coordination (WPC) Wing of Department of Telecommunication formulates a National Frequency Allocation Plan.

<sup>36</sup> World Radio communication Conferences (WRC) are held to review, and, if necessary, revise the Radio Regulations, the international treaty governing the use of the radio-frequency spectrum and the geostationary-satellite and non-geostationary-satellite orbits. WRC is held every three to four years.

<sup>37</sup> The International Telecommunication Union is the United Nation's specialised agency for information and communications technologies, which allocates global radio spectrum and satellite orbits.

Date	Event
<b>January 2002</b>	As per Finance Ministry and Planning Commission's recommendation ICC came to a conclusion that all private operators to pay the transponder lease charges to ISRO/DOS.
<b>June 2002</b>	DOS Constituted a Pricing Committee, consisting of the Additional Secretary, Director, Satellite Communication and Navigational Programme Office (SCNPO), Executive Director, Antrix, Director, Contract Management and Legal Services (CMLS) and a representative of the Member (Finance) of Space Commission to decide the minimum price and review the market strategy periodically in respect of various types of INSAT transponders.
<b>April 2003</b>	INSAT-3A satellite launched using Ariane 5-V160 (procured launch).
<b>May 2003</b>	GSAT-2 satellite was launched using GSLV-D2 vehicle.
<b>18 March 2004</b>	DOS signed MoU with DD for providing transponder on lease in INSAT-4A/4B satellite for DTH service.
<b>27 May 2004</b>	DOS signed contract with Dish TV (erstwhile ASC Enterprises Limited) for providing transponder on lease in NSS satellite for DTH service.
<b>17 June 2004</b>	68 <sup>th</sup> meeting of ICC.
<b>19 February 2005</b>	DOS signed contract with Sun DTH for providing transponder on lease in INSAT-4A satellite for DTH service.
<b>28 June 2005</b>	DOS signed contract with Reliance for providing transponder on lease in INSAT-4G satellite for DTH service.
<b>12 November 2005</b>	DOS signed contract with Tata Sky for providing transponder on lease in INSAT-4A satellite for DTH service
<b>December 2005</b>	INSAT-4A satellite was launched using ARIANE-5-V169 (procured launch)
<b>July 2006</b>	Failed launch of INSAT-4C satellite
<b>26 December 2006</b>	DOS signed contract with Bharti Telemedia Ltd. (Airtel) for providing transponder on lease in INSAT-4G satellite for DTH service
<b>27 February 2007</b>	DOS signed contract with Bharat Business Channel Limited (Videocon) for providing transponder on lease in INSAT-4A/4B satellite for DTH service
<b>March 2007</b>	INSAT-4B satellite was launched using ARIANE-5 vehicle (procured launch)
<b>August 2007</b>	TRAI recommends that all spectrums for terrestrial operations in India should be auctioned.

Date	Event
<b>September 2007</b>	INSAT-4CR satellite was launched using GSLV-F04 vehicle.
<b>March 2008</b>	Pricing Committee fixes minimum transponder lease price.
<b>May 2008</b>	Space Commission, DOS approves transponder lease charges for three years (1 April 2008 to 31 March 2011)
<b>November 2010</b>	INSAT-3B satellite de-orbited
<b>December 2010</b>	Failed launch of GSAT/INSAT-5P satellite
<b>March 2011</b>	GSAT-2 satellite de-orbited
<b>May 2011</b>	GSAT 8/INSAT-4G satellite was launched using ARIANE-5 VA-202 (procured launch)
<b>July 2011</b>	69 <sup>th</sup> meeting of ICC held (after seven years; 68 <sup>th</sup> meeting held in June 2004)
<b>August 2011</b>	TAG in its 131 <sup>st</sup> meeting formed a sub-committee to formulate guidelines and methodology to be followed for allocation of transponders for private commercial sectors and method of monitoring the efficient usage of the allocated transponders.
<b>November 2011</b>	Committee on revised pricing of transponder lease referred the costing aspects to Advisor (Cost) Ministry of Finance and met a team headed by the Chief Advisor of Cost in MoF on Nov 28, 2011. ICC decided that by 01 April, 2012 revised price of transponders should be available for DOS.
<b>November 2011</b>	ICC approves DOS recommendation of allocation of 3 MHz in GSAT 8 at 55 <sup>o</sup> East (transponder 19) on commercial basis to M/s Gazprom, Russia till operationalisation of YAMAL-402, as per obligation of DOS/ISRO under ITU rules.
<b>November 2011</b>	ICC directs DOS/ISRO to include a suitable clause in all future contracts in such a way that the users shall pay the revised cost of transponders as and when the prices are revised.
<b>April 2012</b>	Sub committee constituted by ICC opined not to proceed with the leasing of Asiasat-7 at 83 <sup>o</sup> East based on the strong views expressed by MIB and ICC in its 72 <sup>nd</sup> meeting agreed with the same.
<b>July 2012</b>	72 <sup>nd</sup> ICC noted that the revised prices for 2012-13 will be implemented with retrospective effect from 1 April 2012.

Date	Event
<b>September 2012</b>	GSAT 10 was launched using procured launch (ARIANE-5 VA-209 )
<b>October 2012</b>	Prime Minister's office conveyed DOS to fulfil its contractual obligations or make it possible for Tata Sky to find alternatives.
<b>November 2012</b>	73 <sup>rd</sup> ICC meeting decided that the <i>inter se</i> priority and percentage share of capacity that will be provided to each user category will be decided by ICC from time to time depending upon prevailing situations. It was also decided that emergency requirements can be met on priority by DOS based on the assessment of utilisation plan and specific approval of Chairman, ICC to be ratified by ICC.
<b>November 2012</b>	73 <sup>rd</sup> ICC decided to prepare a revised draft policy paper connected with allocation and pricing guidelines for INSAT transponder capacity and circulate to all the ICC members to provide their comments.
<b>November 2012</b>	73 <sup>rd</sup> ICC decided that 12 transponders in GSAT 10 can be allotted to Tata Sky in lieu of INSAT-4A on a swapping mode.
<b>January 2013</b>	Prime Minister's office directed DOS to send an updated status report on allocation of DTH transponders to Tata Sky including the status of allocation of GSAT 10 capacity.
<b>February 2013</b>	In the 74 <sup>th</sup> ICC meeting, ICC members suggested that all allotments to commercial users, including petty allotments should be on auction basis. The committee also noted the need to ensure transparency and reduce discretion.
<b>February 2013</b>	ICC 74 recommended that DTH operators could be allowed to acquire capacity directly from satellite operators subject to fulfilling all the security, licence, regulatory requirements and permissions from all the concerned/ respective administrative departments.
<b>March 2013</b>	Member, Finance DOS suggested to re-negotiate the agreement with Tata Sky in consultation with Ministry of Law before considering allotting transponder capacity on GSAT 10 in lieu of existing capacity allotted in INSAT-4A.
<b>May 2013</b>	DOS offered 12 transponders in Ku band in GSAT 10 satellite in lieu of existing INSAT-4A satellite on a swappable basis for the remaining period of existing contract.
<b>May 2013</b>	Tata Sky accepted the offer to swap the existing 12 transponders on INSAT-4A with 12 transponders on GSAT 10.
<b>May 2013</b>	Ministry of Finance agreed to retain the existing price for leasing of transponders for a period of six months i.e. up to 30 September 2013.

Date	Event
<b>July 2013</b>	Tata Sky refused to accept the GSAT 10 capacity on swapping mode since it would not provide additional capacity.
<b>July 2013</b>	Tata Sky agreed to relinquish the first right of refusal on the orbital slot for further capacity.
<b>September 2013</b>	DOS retained the existing price for leasing of transponders up to 31 March 2014.

## Annexure - II

### Satellite wise capacity available and allocation over the years

Year	Description	Capacity												
		Domestic							Foreign					
		INSAT 4A	INSAT 4B	INSAT 4CR	GSAT 8	GSAT 10	GSAT 15	Total	NSS6	ST	M3	SES	Asiasat	Total
2004	Planned													
	Existing								6.5					6.5
2005	Planned	12						12						
	Executed+ Existing								9					9
2006	Planned													
	Executed+ Existing	12						12	9					9
2007	Planned		12	12				24						
	Executed+ Existing	12	5					17	9					9
2008	Planned													
	Executed+ Existing	12	11.25	6.5				29.75	11	4.5	8			23.5
2009	Planned													
	Executed+ Existing	12	11.25	6.67				29.92	12	3	8			23
2010	Planned													
	Executed+ Existing	12	8	6.67				26.67	12	9	10			31

### against the demand raised by the DTH service providers

Demand								Remarks
Description	Dish TV	Tata Sky	Door darshan	Sun DTH	Reliance	Airtel	Videocon	
Raised	6.5 (NSS6)	12-18 (INSAT4A)	6 (INSAT4B)					
Met	6.5 (NSS6)							
Raised				4-9 (INSAT4B)	6-18 (GSAT8)			
Met	9 (NSS6)							
Raised						12-15 (GSAT8)		
Met	9 (NSS6)	12 (INSAT4A)						
Raised							6-8 (GSAT8)	
Met	9 (NSS6)	12 (INSAT4A)	5 (INSAT4B)					
Raised								
Met	11 (NSS6)	12 (INSAT4A)	5 (INSAT4B)	6.25 (INSAT4B)	8 (M3)	6.5 (INSAT 4CR)	4.5 (ST)	Balance capacity of 5.5 units of INSAT4CR given for non-DTH purpose.
Raised								
Met	12 (NSS6)	12 (INSAT4A)	5 (INSAT4B)	6.25 (INSAT4B)	8 (M3)	6.67 (INSAT 4CR)	3 (ST)	
Raised								
Met	12 (NSS6)	12 (INSAT4A)	5 (INSAT4B)	3 (INSAT4B) 1 (M3)	9 (M3)	6.67 (INSAT 4CR)	9 (ST)	Due to power problems in INSAT4B, the capacity was reduced by 3.25.

Year	Description	Capacity													
		Domestic							Foreign						
		INSAT 4A	INSAT 4B	INSAT 4CR	GSAT 8	GSAT 10	GSAT 15	Total	NSS6	ST	M3	SES	Asiasat	Total	
<b>2011</b>	Planned				24			24							
	Executed+ Existing	12	6	7	24 (shifted to non DTH use after 8 months)			25	12	9	13	11	6	51	
<b>2012</b>	Planned					12		12							
	Executed+ Existing	12	7	4.5		12 (not alloca- ted)		23.5	12	12	13	11	6	54	
<b>2013</b>	Planned														
	Executed+ Existing	12	7					19	12	15	13	11	6	57	

Demand								Remarks
Description	Dish TV	Tata Sky	Door darshan	Sun DTH	Reliance	Airtel	Videocon	
<b>Raised</b>								
<b>Met</b>	12 (NSS6) 6 (Asia sat)	12 (INSAT4A)	5 (INSAT4B)	1 (INSAT4B) 4(M3)	9 (M3)	7 (INSAT 4CR) 11 (SES)	9 (ST)	Due to power problems in INSAT4B, the capacity was further reduced by two.
<b>Raised</b>								
<b>Met</b>	12 (NSS6) 6 (Asia sat)	12 (INSAT4A)	6 (INSAT4B)	1 (INSAT4B) 4(M3)	9 (M3)	4.5 (INSAT 4CR) 11 (SES)	12 (ST)	Though the launch of GSAT 10 was planned as a replacement satellite to INSAT 4A which was to be decommissioned in the year 2017, this was advanced at the instance of TataSky.
<b>Raised</b>								
<b>Met</b>	12 (NSS6) 6 (Asia sat)	12 (INSAT4A)	6 (INSAT4B)	1 (INSAT4B) 4(M3)	9 (M3)	11(SES)	15 (ST)	GSAT 15 was yet to be launched