No.8(12)/2007-BP&L
Government of India
Ministry of Information & Broadcasting
‘A’ Wing, Shastri Bhawan, New Delhi-110 001.

Dated: 26 November 2007

OFFICE MEMORANDUM

Subject: Channels to be compulsorily carried as per Clause 7.8 of the Schedule to the License Agreement

The undersigned is directed to refer to Clause 7.8 of the Schedule to the DTH License Agreement whereby it is mandatorily required to carry or include in DTH service, TV channels which have been notified for mandatory and compulsory carriage as per provisions of Section 8 of the Cable Television Networks (Regulation) Act, 1995 as amended except for the regional TV channels. As per the extant notifications by the Central Government and Prasar Bharati under the provisions of Section 8 of the Cable Act, following channels are supposed to be mandatorily included in the DTH service:

1. Lok Sabha Television channel
2. DD Rajya Sabha channel
3. DD-I (National channel)
4. DD (News channel)
5. DD Sports channel
6. DD Urdu channel
7. Gyan Darshan channel
8. DDBharati channel

2. In view of the above it is directed to ensure that all the above eight channels if not included as yet in your DTH service be included immediately and the Ministry informed of the compliance by 28.11.2007.

( Arvind Kumar )
Director (BP&L)
Tel.No.: 2338 1863

Copy for compliance to:
2. M/s ASC Enterprises Ltd. (Dish TV India Ltd.), FC-19, Sector 16-A, NOIDA-201301.

Copy for information to:
1. CEO, Prasar Bharati, PTI Building, New Delhi.
2. Secretary, Telecom Regulatory Authority of India.
In pursuance to the Cabinet decision taken on 21st August, 2008 regarding modification of policy guidelines for downlinking of television channels to enable broadcasters to provide their content to Internet Protocol Television (IPTV) service providers, the existing clause 5.6 of the downlinking guidelines has been amended as under:

“5.6 The applicant company shall provide satellite TV Channel signal reception decoders only to MSOs/Cable operators registered under the Cable Television Networks (Regulation) Act 1995 or to a DTH operator registered under the DTH guidelines issued by Government of India or to an Internet Protocol Television (IPTV) Service Provider duly permitted under their existing telecom license or authorized by Department of Telecom to provide such service.”

2. The downlinking guidelines, as amended, are available on the Ministry’s website (www.mib.nic.in) for general information.

(ZOHRA CHATTERJI)
Joint Secretary to the Government of India
Tele. : 23382597

Copy to:

1. Cabinet Secretary, Cabinet Secretariat, New Delhi.
2. Secretary, Department of Telecommunications, Ministry of Communications & Information Technology, Sanchar Bhawan, New Delhi.
3. Secretary, Ministry of Home Affairs, North Block, New Delhi.
4. Secretary, Ministry of Finance, North Block, New Delhi.
5. Secretary, Department of Revenue, Ministry of Finance, North Block, New Delhi.
6. Secretary, Department of Space, Lok Nayak Bhawan, Khan Market, New Delhi.
7. Secretary, Department of Information Technology, Ministry of Communications & Information Technology, Electronic Niketan, CGO Complex, New Delhi.
9. Secretary, Telecom Regulatory Authority of India (TRAI), Mahanagar Doorsanchar Bhawan, Jawahar Lal Nehru Marg (Old Minto Road), New Delhi.
No. 16/03/2006-BP&L Vol.IV
Government of India
Ministry of Information & Broadcasting
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Shastri Bhawan, New Delhi
Dated the 12th January 2009.

CORRIGENDUM

This is with reference to the clarification issued on 18th November 2008 by this Ministry under the guidelines for provisioning of IPTV Services in the country.

2. In Para ‘2’ of the said clarification, in the last but one line, the word “following” stands deleted and is substituted by the word “failing”.

(Zohra Chatterji)
Joint Secretary to Government of India
Tele: 23382597

To
1. IBF
2. IMG
3. NBA
4. MSO Alliance
5. COFI

Copy to:
1. Secretary, Department of Telecommunications.
2. Secretary, Department of Information Technology.
3. CEO, Prasar Bharati.
4. Secretary, Telecom Regulatory Authority of India, New Delhi.
CLARIFICATION

Certain Broadcasters have expressed an apprehension that clause (vii) of the Guidelines for IPTV Service issued by this Ministry on 8th September 2008 for compliance of IPTV Service Providers, may be used by multi-system operators/cable operators to distribute the contents of TV channels to telecom IPTV licensees without obtaining relevant rights from the content owners resulting in violation of the terms and conditions on which content is being provided by the rights owner to multi system operators or cable operators.

2. The matter has been examined and attention is invited to clause (v) of the IPTV policy guidelines of this Ministry wherein it has been stated that provisions of Cable Television Networks (Regulation) Act, 1995 and rules thereto and regulations issued by Telecom Regulatory Authority of India will continue to be applicable to IPTV Services of cable operators. As such MSOs/Cable operators can provide only such content which is permissible as per the Cable TV Networks (Regulation) Act, 1995 and Rules and which is in conformity with Advertisement and Programme codes prescribed under the Cable Television Networks Rules 1994. Further Rule 6(3) of the Cable Television Networks Rules, 1994 clarifies that no content can be included in cable service in respect of which copyright subsists under the Copyright Act, 1957 unless he has been granted a license by the owners of copyright. Given the above legal position it is expected that MSOs/Cable Operators will provide content to Telecom Licensees for IPTV Services only after obtaining the relevant rights for the same following which it will be treated as a violation of Programme code liable for suitable action as per law.

(Zohra Chatterji)
Joint Secretary to the Government of India
Tele:23382597.

To
1. IBF
2. IMG
3. NBA  
4. MSO Alliance  
5. COFI

Copy to:  
1. Secretary, Department of Telecommunications.  
2. Secretary, Department of Information Technology.  
3. CEO, Prasar Bharati.  
4. Secretary, Telecom Regulatory Authority of India, New Delhi.

Copy also to: NIC, M/o I & B with a request that the clarification may be loaded on the website of the Ministry under the heading “Codes & guidelines/Guidelines for IPTV Services”.
Subject: Channels to be compulsorily carried by IPTV Service Providers – regarding.

The undersigned is directed to refer to Clause (xi) of the IPTV Guidelines to be followed by Internet Protocol Service Providers. The IPTV service provider is mandatorily required to carry or include in his IPTV service, TV channels which have been notified for mandatory and compulsory carriage as per provisions of Section-8 of the Cable Television Networks (Regulation) Act, 1995, as amended, except for the regional TV Channels. As per the extant notifications by the Central Government and Prasar Bharati under the provisions of Section-8 of the Cable Act, following channels are required to be mandatorily included in the IPTV service:-

1. Lok Sabha Television channel
2. DD Rajya Sabha channel
3. DD-I (National channel)
4. DD (News Channel)
5. DD Sports channel
6. DD Urdu channel
7. Gyan Darshan channel
8. DD Bharati channel

2. In view of the above, it may please be ensured that all the above eight channels are included in your IPTV service and the Ministry informed of the compliance.

(Zohra Chatterji)
Joint Secretary to the Govt. of India
@: 2338 2597

To
All IPTV Service Providers

Copy for information to :-

1) Secretary, Telecom Regulatory Authority of India.
2) Secretary, Department of Telecommunications.
3) CEO Prasar Bharati, PTI Building, New Delhi.
Guidelines For Provisioning of Internet Protocol Television (IPTV) Services

Background:

IPTV (Internet Protocol Television) is a system where a digital television service is delivered using the Internet Protocol over a network infrastructure, which may include delivery by a broadband connection. A simpler definition would be, television content that, instead of being delivered through traditional format and cabling, is received by the viewer through the technologies used for computer network. In case of IPTV, it requires either a computer and software media player or an IPTV set top box to decode the images in real time.

International Telecommunication Union has defined IPTV services as follows:-

"An IPTV service (or technology) is the new convergence service (or technology) of the telecommunication and broadcasting through QoS controlled Broadband Convergence IP Network including wire and wireless for the managed, controlled and secured delivery of a considerable number of multimedia contents such as Video, Audio, data and applications processed by platform to a customer via Television, PDA, Cellular, and Mobile TV terminal with STB module or similar device."

These Guidelines are being issued with the objective of bringing clarity on various platforms capable of providing IPTV services, the regulatory provisions and licensing requirements and other issues to encourage stakeholders to launch IPTV services.

Guidelines:

(i) Telecom Access Service Providers (Unified Access Service Licensees, Cellular Mobile Telephone Service Licensees and Basic Service Licensees) having license to provide triple play services and ISPs with net worth more than Rs. 100 Crores and having permission from the licensor to provide IPTV or any other telecom service provider duly authorized by the Department of Telecom will be able to provide IPTV service under their licenses without requiring any further registration. Similarly cable TV operators registered under Cable Television Network (Regulation) Act 1995 (referred as Cable Act hereafter) can provide IPTV services without requiring any further permission.

(ii) All telecom licensees/ Cable operators before providing IPTV will give a self certified declaration to I&B ministry, DoT and TRAI giving details such as license/ registration under which IPTV service is proposed, the start date, the area being covered, and details of the network infrastructure etc.

(iii) Telecom service providers as mentioned above will be subjected to percentage of Adjusted Gross Revenue (AGR) as license fee as applicable from time to time which is presently 6%, 8%, and 10% for access service licensees in category “C”, Category “B” and category “A” circles and 6% for ISPs. In case any telecom
service provider register itself as cable operator and provides IPTV using its telecom resources, it shall be considered as service under telecom license. Such a service provider shall have to pay the license fee on IPTV revenue also as applicable to its telecom license.

(iv) The Ministry of Information and Broadcasting has already requested Bureau of Indian Standards to lay down the specifications for IPTV set top boxes for use in cable networks. The cable operator providing IPTV service will be required to ensure within a period of six months from the date of publication of the Indian Standards by BIS that the IPTV set top boxes required to receive IPTV services conform to the BIS specifications.

(v) The Cable operators while providing IPTV services will continue to be governed by the provisions of the Cable Television Networks (Regulation) Act, 1995, The Telecom Regulatory Authority of India Act, 1997 and any other laws as applicable and as such shall be able to provide such content on their IPTV service which is permissible as per the Cable Act and which is in conformity with the Programme and Advertisements Codes prescribed thereunder.

(vi) Telecom licensees while providing TV channels through IPTV shall transmit only such broadcast satellite television channels in exactly same form (unaltered) which are registered with or are otherwise permitted by the Ministry of Information and Broadcasting. In such cases, the responsibility to ensure that content is in accordance with the extant laws, rules, regulations etc shall be that of the broadcaster and telecom licensee will not be held responsible. The IPTV service provider shall not carry any broadcast satellite television channels prohibited either permanently or temporarily or not registered with the Ministry of Information & Broadcasting.

(vii) The telecom licensee can obtain content from the Multi System Operator or the Cable Operator for providing IPTV services.

(viii) Telecom service providers providing IPTV will show only those News and Current Affairs television channels which have been registered with Ministry of Information and Broadcasting. They will not produce or provide any other broadcast or non-broadcast channel having any element of News and Current Affairs.

(ix) The provisions of Programme code and Advertisement code as provided in Cable Television Network (Regulation) Act 1995 and Rules thereunder shall be applicable even in the case of contents other than TV Channels from broadcasters provided by the Telecom IPTV service provider. Since it is the telecom licensee who will be providing this content, therefore, he shall be responsible for ensuring compliance to the codes with respect to such content. In addition to this, such licensees will also be bound by various Acts, instructions, directions, guidelines issued by the Central Government from time to time to regulate the contents.

(x) If the contents are being sourced from content providers other than telecom service provider, then it will be the responsibility of telecom service provider to ensure that their agreements with such content providers contain appropriate clauses to ensure prior compliance with the Programme and Advertisement Codes and other relevant Indian laws, civil and criminal, regarding content.

(xi) The Central Government in the Ministry of Information and Broadcasting shall have the right to notify the number and names of channels of Prasar Bharati or
any other channel for compulsory carriage by the IPTV service provider in his service and the manner of reception and retransmission of such channels.

(xii) The IPTV service provider either a telecom licensee or a cable operator should provide commercial interoperability so that if the subscribers decide to switch over to any other service provider or platform they should be able to do so at least cost. Commercial interoperability here would mean that in addition to offering the receiver set on an outright purchase basis, a subscriber should also have the option to purchase it on a hire-purchase basis or on rental basis with a provision to return the receiver set on such terms and conditions as may be laid down by regulations issued by TRAI.

(xiii) The Government in the Ministry of Information and Broadcasting may direct the IPTV service providers to ensure preservation and retention for a period of 90 days unless specified otherwise, of different kinds of content made available to their subscribers and requires it to ensure its security and also that it is not tampered with during such period. The IPTV service provider may be required to produce the same to the Government or its authorized representative, as and when required and the IPTV service providers will be required to ensure compliance to all such directions.

(xiv) The IPTV service provider shall provide the necessary facility for continuous monitoring of the IPTV network at its own cost and maintain the recordings of programmes and advertisements carried on the network for a period of 90 days unless specified otherwise, from the date of broadcast and produce the same to the Government or its authorized representative, as and when required. The monitoring system must provide Set Top Box subscriber information as well as contents to the law enforcement agencies in plain readable, audible and viewable format as the case may be.

Provided that in case of any dispute the records of broadcast of programmes and advertisements shall be maintained till final disposal of the dispute.

Provided further that the IPTV service provider shall provide access to the Government or its authorized representative to all its facilities including equipments, records, system etc. for purposes of inspection.

(xv) On demand by the Government in the Ministry of Information and Broadcasting or its authorized representative, an IPTV service provider shall provide the necessary equipment, services and facilities at designated place(s) for continuous monitoring of the IPTV service by or under supervision of the Government or its authorized representative.

(xvi) The IPTV service provider shall submit such information with respect to its service as may be required by the Government in the Ministry of Information and Broadcasting or its authorized representative from time to time.

(xvii) The IPTV service provider shall furnish any such information at periodic intervals as may be required by the Government in the Ministry of Information and Broadcasting or its authorized representative concerning Programme Content and Quality, Technical Parameters etc. relating to the service in the format as may be required by the Government or its authorized representative from time to time.

(xviii) The Government of India, Ministry of Information & Broadcasting or its authorized representative shall have the right to inspect the IPTV service
facilities. No prior permission/intimation shall be required to exercise the right of Government or its authorized representative to carry out the inspection. The IPTV service provider will, if required by the Government or its authorized representative, provide necessary facilities for continuous monitoring for any particular aspect of the company's activities and operations.

(xix) The Government of India, Ministry of Information & Broadcasting or its authorized representative will ordinarily carry out the inspection after reasonable notice except in circumstances where giving such a notice will defeat the very purpose of the inspection.

(xx) The IPTV service provider shall furnish the complete details such as name, technical details and license etc. of the value added service being provided through IPTV network.

Provided that in case any new value added service is added to the network, the IPTV Service provider shall obtain prior approval of the Government or licensing authority. The Government or the licensing authority may from time to time, prescribe or prohibit certain value added services.

(xxi) Any violation of prevailing Acts/ Rules/ guidelines pertaining to the administrative jurisdiction of Department of Information Technology in the Ministry of Communication and Information Technology, and Ministry of Information and Broadcasting, relating to content by telecom service providers in provisioning of IPTV service shall be reported to DoT by respective Department/Ministry. The decision of the respective Department/Ministry regarding violation of the law/direction/guidelines in respect to content shall be final. DoT may seek the guidance of the respective ministries to ascertain the penalties for the breach to maintain uniformity and shall initiate suitable action for imposing penalties for violations in time bound manner.

(xxii) Any breach of the provisions of Act/ License/ Registration/ Permission by telecom service provider/ cable operator/ Broadcasters shall be dealt with by designated agencies which are responsible for administering such Acts/ License/ Registration/ Permissions.

(xxiii) The Government shall have the right to modify at any time the provisions of these guidelines and/or the terms and conditions of permission-registration, if in the opinion of the Government it is necessary or expedient to do so in public interest or in the interest of the security of the State. The decision of the Government shall be final and binding in this regard.

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इंटरनेट प्रोटोकॉल टेलीविजन (आई पी टी वी) सेवाओं का प्राधान्य करने संबंधी दिशा-निर्देश

प्रमुख:

आई पी टी वी (इंटरनेट प्रोटोकॉल टेलीविजन) एक ऐसी प्राणाली है जिसमें डिजिटल टेलीविजन सेवा का वितरण, नेटवर्क अवसंरचना में इंटरनेट प्रोटोकॉल के प्रयोग द्वारा किया जाता है, जिसमें एक ब्रॉडबैंड कनेक्शन के द्वारा वितरण किये जाने को शामिल किया जा सकता है। इसकी एक सरल परिभाषा यह होगी कि विषय-वस्तु को प्राथमिक फॉर्मेट और कैबल के जरिए वितरित किये जाने की बजाए दर्शक इसे कंप्यूटर नेटवर्क के लिए प्रयोग में लायी जाने वाली प्रौद्योगिकियों के जरिए प्राप्त करते हैं। आई पी टी वी के मामलों में, नियत समय में बिंदुओं को डीकोड करने के लिए किसी कंप्यूटर और सीपीटीयू वीडियो लेवर अथवा आई पी टी वी सेट टॉप बॉक्स की आवश्यकता होती है।

अन्तरराष्ट्रीय दूरसंचार संग्रह ने आई पी टी वी सेवाओं को निम्नानुसार परिभाषित किया है:

"आई पी टी वी सेवा (या प्रौद्योगिकी) एस टी वी माध्यम अथवा समग्र उपकरण सहित टेलीविजन, भी भी ए, सैल्यूलर और मोबाइल टी वी टम्बिल के माध्यम से उपभोक्ता को प्लेटफॉर्म संसाधित वीडियो, ऑडियो, आकारों और प्रभावितियों जैसे बहुत सारी मल्टी वीडियो विषयक मुद्दों के प्रबंधित, नियंत्रित और सुरक्षित प्रिंटर के लिए तार एवं नेटवर्क सहित वूल्फ और एस द्वारा नियंत्रित ब्रॉडबैंड अभिसरिता आई पी नेटवर्क के जरिए दूरसंचार और प्रसारण की एक नई अभिसरित सेवा (अथवा प्रौद्योगिकी) है।"

ये दिशा-निर्देश आई पी टी वी सेवाएं शुरु करने के लिए स्टेटसिल्स को प्राथमिक देने हेतु आई पी टी वी सेवाएं, विनियमक संबंधी प्राधान्य और लाइसेंसिंग हेतु आवश्यकताएं मुहूर्त कराने में समाधा विभिन्न प्लेटफॉर्मों तथा अन्य मुद्दों के संबंध में स्पष्टता लाने के उद्देश्य से जारी किए जा रहे हैं।

दिशा-निर्देश:

(i) वे दूरसंचार पहुँच सेवा प्रदाता (एकीकृत पहुँच सेवा लाइसेंस्ड सैल्यूलर मोबाइल दूरसंचार सेवा लाइसेंस्ड सैल्यूलर और बुनियादी सेवा लाइसेंस्ड सैल्यूलर) जिनके पास तीन सेवाएं उपलब्ध कराने हेतु लाइसेंस हैं और 100 करोड़ रुपये से अधिक की मिल्लियन रुपये के आई पी वी हैं तथा जो आई पी टी वी मुहूर्त करने के लिए लाइसेंस प्रदाता द्वारा अनुमोदित आई पी टी वी सेवाएं के अर्थशास्त्रिक परिक्रमण की आवश्यकता के बिना अपने लाइसेंसों के अंतर्गत आई पी टी वी सेवाएं मुहूर्त कर सकते हैं। इसी प्रकार लें, कैबल टेलीविजन नेटवर्क (विनियमक) अधिनियम, 1995 (इसके अंतर्गत उल्लेख कैबल अधिनियम के रूप किया जाएगा) के
तहत पंजीकृत केबल टी वी ऑपरेटर बिना कोई और अनुमति लिए आई पी टी वी सेवा पर उपलब्ध करा सकते हैं।

(ii) आई पी टी वी सेवा मुहैया कराने से पहले सभी दूरसंचार लाइसेंसधारक/ केबल ऑपरेटर चुनना और प्रसारण मंत्रालय, दूरसंचार विभाग और ट्राई को एक भव्य-प्रमाणित घोषणा-पत्र देंगे जिसमें लाइसेंस/ पंजीकरण जिसके अंतर्गत आई पी टी वी सेवा प्रसारित है, सेवा प्राप्त करने की तारीख, कवर किया जा रहा क्षेत्र और नेटवर्क अवसरता आदि का व्याख्या दिया जाएगा।

(iii) उपरोक्तीकृत दूरसंचार सेवा प्रदाता, समय-समय पर यथा अनुप्रयोज्य लाइसेंस शुल्क के रूप में समायोजित सकल राजस्व (ए जी आर) का प्रतिशत हा में भुगतान करेगा जो कि श्रेणी “ग”, “ख” और “क” अंशों के लिए इस समय 6% 8% और 10% है और आई एस पी के लिए 6% है। यदि कोई सेवा प्रदाता केबल ऑपरेटर के रूप में व्यक्ति को पंजीकृत करता है और अपने दूरसंचार संसाधनों का प्रयोग करके आई पी टी वी मुहैया करता है तो इसे दूरसंचार लाइसेंस के अंतर्गत एक सेवा के रूप में समझा जाएगा। ऐसे सेवा प्रदाता को अपने दूरसंचार लाइसेंस के लिए यथा अनुप्रयोज्य आई पी टी वी राजस्व पर लाइसेंस शुल्क का भी भुगतान करना होगा।

(iv) सूचना और प्रसारण मंत्रालय ने केबल नेटवर्क में प्रयोग किए जाने के लिए आई पी टी वी सेट टॉप बॉक्सों तक विनिर्देश निर्धारित करने के लिए भारतीय मानक बूथों से पहले ही अनुमोदित किया हुआ है। आई पी टी वी सेवा उपलब्ध कराने वाले केबल ऑपरेटर को भारतीय मानक बूथों द्वारा भारतीय मानकों के प्रकाशन की तारीख से ५० दिन की अवधि के भीतर यह सुनिश्चित करना होगा कि आई पी टी वी सेवा प्राप्त करने के लिए अनुप्रयोज्य आई पी टी वी सेट टॉप बॉक्स भारतीय मानक बूथों द्वारा निर्धारित विनिर्देशों के अनुरूप है।

(v) आई पी टी वी सेवा मुहैया करते समय केबल ऑपरेटर, केबल टेलीविजन नेटवर्क विभाग में अधिनियम, 1995, भारतीय दूरसंचार विनियमन अधिनियम, 1997 तथा यथा अनुप्रयोज्य किन्हीं अन्य कानूनों के प्राधिकारों द्वारा अभिमानित होता रहेगा और इसीलिए वह अपनी आई पी टी वी सेवा में ऐसी विभाग-वस्तु उपलब्ध कर सकेगा जो कि केबल अधिनियम के अनुसार स्वीकार्य है और जो इसके अंतर्गत विनिर्देशित कार्यक्रम और विज्ञापन संबंधी के अनुरूप है।

(vi) आई पी टी वी के जरिए द्वारा चैनल उपलब्ध कराने के समय दूरसंचार लाइसेंसधारक केबल ऐसे व्यक्ति द्वारा दूरसंचार चैनल का प्रसारण हुआ उसी रूप (अपरिवर्तित) में करेगे जिनके लिए सूचना और प्रसारण मंत्रालय द्वारा अनुमोदि हो गई है और जो मंत्रालय में पंजीकृत है। ऐसे मामलों में यह सुनिश्चित करना प्रसारण की जिम्मेदारी होगी कि विषय-वस्तु मौजूदा कानूनों, नियमों, विनियमों आदि के अनुरूप हों तथा इस विभाग में दूरसंचार लाइसेंसधारक की जिम्मेदारी नहीं ठहराया जाएगा। आई पी टी वी सेवा प्रदाता ऐसे किसी उपयोग
दूसरीदिशा तालिकास्थान, आई पी टी वी सेवाएं मुहैया कराने के लिए बहु प्राणारी संचालक अथवा केंद्र ओपरेटर से विषय-वस्तु प्राप्त कर सकता है।

आई पी टी वी सेवा मुहैया कराने के लिए दूसरीदिशा सेवा प्रदाता केंद्र उन्हीं समाचार और सम-सामाजिक विषयक टेलीविजन चैनलों का प्रसारण करेगा जो सूचना और प्रसारण मंत्रालय में पंजीकृत हैं। वे ऐसा कोई अन्य प्रसारण या गैस-प्रसारण चैनल निर्मित या उपलब्ध नहीं कराएं जिनमें किसी भी प्रकार की समाचार और सम-सामाजिक विषय-वस्तु शामिल हो।

केंद्र टेलीविजन नेटवर्क (विनियमन) अधिनियम, 1995 और इसके तहत बनाए गए नियमों में यथा प्रकार कार्यक्रम संहिता और विज्ञापन संहिता के प्रावधान, दूसरीदिशा आई पी टी वी सेवा प्रदाता द्वारा उपलब्ध कराए गए प्रसारण द्वी वी चैनलों की विषय-वस्तु के मामले में भी अनुप्रयोग होंगे। यूंकि दूसरीदिशा लाइसेंस धारक द्वारा वह विषय-वस्तु उपलब्ध करायी जाएगी इसलिए ऐसी विषय-वस्तु के संबंध में संहिताओं का अनुप्रयोग सुनिश्चित करने के लिए वह उत्तरदायी होगा। इसके अतिरिक्त, ऐसे लाइसेंसधारक विषय-वस्तु को विनियमित करने के लिए केंद्र सरकार द्वारा समय-समय पर जारी किए गए विनियम अधिनियमों, अनुदेशों, निदेशों, दिशा-निदेशों का भी अनुपालन करेंगे।

यदि विषय-वस्तु को दूसरीदिशा सेवा प्रदाता को छोड़कर किसी अन्य विषय-वस्तु प्रदाता से प्राप्त किया जाता है, तो यह सुनिश्चित करना दूसरीदिशा सेवा प्रदाता का उत्तरदायी होगा कि ऐसे विषय-वस्तु प्रदाताओं के साथ किए गए उनके कार्यों में उपयुक्त खंड अंतर्विष्ट किए जाएं ताकि कार्यक्रम एवं विज्ञापन संहिताओं तथा विषय-वस्तु से संबंधित अन्य प्रारंभिक तिथियों और आपराधिक भारतीय कानूनों का पहले से ही अनुपालन भी सुनिश्चित किया जा सके।

सूचना और प्रसारण मंत्रालय में केंद्र सरकार के पास प्रसार भारती के चैनलों की संख्या और उनके नाम अधिसूचित करने अथवा आई पी टी वी सेवा प्रदाता द्वारा अपनी सेवा में अभिवादन प्रसारण हेतु किसी अन्य चैनल को अधिसूचित करने तथा ऐसे चैनलों के अभिवादन और वन: प्रसारण का तरीका सुनिश्चित करने का अधिकार होगा।

आई पी टी वी सेवा प्रदाता अर्थात दूसरीदिशा लाइसेंसधारक या केंद्र ओपरेटर को वाहिनीय अंतर प्रचालनात्मकता उपलब्ध करानी चाहिए ताकि यदि उपमोक्ता अपनी मौजूदा सेवा को बदलकर किसी अन्य सेवा प्रदाता अथवा प्रॉटोकॉल की सेवाएं लेने का निर्णय लेते हैं तो वे खुदनम खर्च पर ऐसा कर सकें। यह वाहिनीय अंतर प्रचालनात्मकता का अभियुक्त यह होगा कि अभिवादन सैट की पुनर्नाम प्रयोग आधार पर
पेशकश करने के अतिरिक्त उपभोक्ता के पाल द्वारा जारी किए गए विनियमों द्वारा यथा निरीक्षित ऐसे निर्देशन एवं शर्तों पर अभिग्रहण सैट को लौटाने के प्राधिक व उन्हें इसे किराया-क्रय आधार पर सफलता अवधारणा पर देने का भी विवेक होना चाहिए।

(xiii) जब तक अन्यथा निर्दिष्ट न किया गया हो, सूचना और प्रसारण मंत्रालय अपने उपभोक्ता को उपलब्ध करानी गई विनियम प्रकार की विषयवस्तु का 90 दिनों की अवधि के लिए परीक्षण और प्रतिस्पर्धा विनियम लगाने के लिए आई पी दी दी सेवा प्रदाता को निर्देश दे सकता है तथा सेवा प्रदाता से यह अपेक्षा है कि इसकी सुरक्षा सुनिश्चित करें और इस दृष्टि के दौरान इसके साथ किसी प्रकार की चेड-चाड न की जाए। आई पी दी दी सेवा प्रदाता से यथा आवश्यकतानुसार इन्हें सरकार अध्याय सरकार के प्रतिनिधि के समक्ष प्रस्तुत करने के लिए कहा जा सकता है तथा आई पी दी दी सेवा प्रदाता के लिए ऐसे सभी निर्देशों का अनुपालन सुनिश्चित करना अपेक्षित होगा।

(xiv) आई पी दी दी सेवा प्रदाता अपनी लागत पर आई पी दी दी नेटवर्क के सतत अनुवृत्ति के लिए आवश्यक सुविधा मुहैया कराता और यदि अन्यथा निर्दिष्ट नहीं किया गया हो तो प्रसारण की तारीख से 90 दिन की अवधि के लिए नेटवर्क पर प्रस्तावित किए गए कार्यक्रमों और विज्ञप्तियों को सुरक्षित रखेगा तथा यथा आवश्यकतानुसार सरकार या सरकार के प्राधिकृत प्रतिनिधि के समक्ष इन्हें प्रस्तुत करेगा। अनुवृत्ति प्रणाली द्वारा सेट टॉप बॉक्स की उपयोगिता संबंधी जानकारी और कानून-प्रवर्तन एजेंसियों को साथ पठानें, अर्थ और दर्शन-दयोग सूचना में विषयवस्तु, जैसा भी मामला हो, उपलब्ध कराया जाना होगा।

यह शर्तें रखी गई है कि कोई विवाद होने की स्थिति में कार्यक्रमों और विज्ञप्तियों के प्रसारण के रिकार्ड को विवाद का निपटान होने तक सुरक्षित रखा जाएगा।

यह भी शर्तें रखी गई है कि आई पी दी दी सेवा प्रदाता, सरकार या इसके प्राधिकृत प्रतिनिधि को निरीक्षण करने के प्रयोजनाधीन उपकरण, रिकार्ड, प्रणाली आदि सहित अपनी सभी सुविधाओं तक पहुंच उपलब्ध कराएगा।

(xv) सूचना और प्रसारण मंत्रालय में सरकार या इसके किसी प्राधिकृत प्रतिनिधि की मांग पर आई पी दी दी सेवा प्रदाता, सरकार या इसके प्राधिकृत प्रतिनिधि के पश्चात्तेज में अधिक उनके द्वारा आई पी दी दी सेवा के सतत अनुवृत्ति के लिए निर्देशित स्थान (स्थानों) पर आवश्यक उपकरण, सेवाएं और सुविधाएं उपलब्ध कराएगा।

(xvi) आई पी दी दी सेवा प्रदाता अपनी सेवाओं के संबंध में सूचना और प्रसारण मंत्रालय में अपनी सेवाओं के संबंध में सूचना और प्रसारण मंत्रालय में सरकार अथवा इसके प्राधिकृत प्रतिनिधि द्वारा समय-समय पर स्थायीपूर्वक सूचना प्रस्तुत करेगा।
(xvii) आई पी डी वी सेवा प्रदाता, सूचना और प्रसारण मंत्रालय में सरकार अथवा इसके प्राधिकृत प्रतिनिधि द्वारा समय-समय पर यथा अपेक्षित प्रस्तुत में सेवा से संबंधित कार्यक्रम विषय-वस्तु और गृहन्त, तकनीकी पैरामीटर आदि से संबंधित ऐसी सूचना आवश्यक अंतरालों पर प्रस्तुत करेगा।

(xviii) भारत सरकार, सूचना और प्रसारण अथवा इसके प्राधिकृत प्रतिनिधि के पास आई पी डी वी सेवा से संबंधित सुविधाओं का निरीक्षण करने का अधिकार होगा। सरकार अथवा इसके प्राधिकृत प्रतिनिधि को निरीक्षण करने के अपने अधिकार का प्रयोग करने के लिए कोई पूर्वानुमति लेने/सूचना देने की आवश्यकता नहीं होगी। यदि सरकार अथवा इसके प्राधिकृत प्रतिनिधि को आवश्यकता होती है तो आई पी डी वी सेवा प्रदाता, कंपनी के कार्य-कलापों और संचालनों के किसी भी विशेष पहलू के संबंध में अनुज्ञापन हेतु आवश्यक सुविधाएं उपलब्ध कराएगा।

(xix) भारत सरकार, सूचना और प्रसारण मंत्रालय अथवा इसके प्राधिकृत प्रतिनिधि, उन परिस्थितियों को चौंककर जब पूर्व सूचना दिए जाने से निरीक्षण करने का प्रयोजन ही विफल हो जाए, सामान्यतया यथास्थिति सूचना दिए जाने के बाद ही निरीक्षण करेंगे।

(xx) आई पी डी वी सेवा प्रदाता, आई पी डी वी नेटवर्क के जरिए उपलब्ध करायी जा रही मूल्य वार्षिक सेवा का नाम, तकनीकी व्यवस्थाएं और लॉसेंस आदि जैसा कि पूर्ण विवरण प्रस्तुत करेगा।

बशर्ते कि यदि नेटवर्क में कोई नई मूल्य आवश्यकता सेवा को सम्मिलित किया जाता है तो आई पी डी वी सेवा प्रदाता, सरकार या लॉसेंसिंग प्राधिकृत से पूर्वानुमोदन प्राप्त करेगा। सरकार या लॉसेंसिंग प्राधिकृत समय-समय पर कंटेंट मूल्य वार्षिक सेवाएं निर्धारित या प्रतिबिम्बित कर सकते हैं।

(xxii) आई पी डी वी सेवा उपलब्ध करने के संबंध में दूरसंचार सेवा प्रदाताओं द्वारा विषय-वस्तु से संबंधित संचार एवं सूचना प्रौद्योगिकी मंत्रालय में सूचना प्रौद्योगिकी विभाग तथा सूचना एवं प्रसारण मंत्रालय के प्रसारनिक अधिकार क्षेत्र से संबंधित मौजूदा अधिनियमों/नियमों/दिशानिर्देशों में किसी भी प्रकार के उल्लंघन के बारे में संबंधित विभाग/मंत्रालय द्वारा दूरसंचार विभाग को सूचित किया जाएगा। विषय-वस्तु के संबंध में कानून/नियम/दिशानिर्देश के उल्लंघन की बावजूद संबंधित विभाग/मंत्रालय का निर्णय अंतिम होगा।

दूरसंचार विभाग, प्रकाशित बनाए रखने के लिए उल्लंघन किए जाने पर शास्त्रियां अभिनियित करने हेतु संबंधित मंत्रालयों से मार्गदर्शन लेने का अनुरोध कर सकता है तथा यह उल्लंघन किए जाने पर शास्त्रियों अभिनियित करने हेतु समयबद्ध तरीक़े से समृद्ध उल्लंघन कार्रवाई प्रारम्भ करेगा।
(xxii) दूसरों से किसी प्रकार ध्यान देना या केबल ऑपरेटर/ प्रमुखों द्वारा अधिनियम/ लाइसेंस/ पंजीकरण/ अनुमति के प्रावधानों में किसी भी प्रकार का उल्लंघन किए जाने पर ऐसे अधिनियमों/ लाइसेंस/ पंजीकरण/ अनुमतियों का प्रशासित करने के लिए उत्तरदायी नोमोडिस्ट एजेंसियों द्वारा कार्रवाई की जाएगी।

(xxiii) सरकार के पास इन दिशानिर्देशों और/ अथवा अनुमति/ पंजीकरण के निर्देशों एवं शर्तों प्रावधानों में किसी भी समय आश्चर्य करने का अधिकार होगा, यदि सरकार की राय में सार्वजनिक हित या देश की सुरक्षा के हित में ऐसा करना अविष्कार अथवा अनिवार्य हो रहा हो जब संबंध में सरकार द्वारा लिया गया निर्णय अंतिम व बाध्यकारी होगा।
FORMAT FOR SELF-DECLARATION BY IPTV SERVICE PROVIDER

[See Para (ii) of the Policy Guidelines for provisioning of IPTV services]
[Separate copies to be forwarded by IPTV service provider to Secretary, I&B Ministry, Department of Telecom and TRAI]

1. (a) Name of the IPTV service provider (individual/firm/company/association of persons/body of individuals) **

(b) Age/Date of establishment/Date of Incorporation

2. Details of Registration as a Cable Operator (if applicable)

(a) Name/Address of the Post Office with which registered

(b) Registration No./Validity up to

(c) Copy of the Registration Certificate (enclose)

3. Details of Telecom License (if applicable)

(a) Date of issuance of license

(b) Validity upto

(c) Copy of the license agreement

4. Complete Postal Address with Telephone/Fax No./E-mail ID

(a) Corporate Office/Head Office

(b) Registered Office

(c) Regional Offices

(d) Address for Correspondence

5. Name of authorized contact person, his designation and telephone/fax No./E-mail ID

6. *Registration detail under Companies Act, 1956: Incorporation No. and Date (Attach a copy of Certificate of Incorporation and Memorandum and Article of Associations)

7. *Board of Directors (Attach list of Directors along with bio-data of each Director giving date of birth, place of birth, parentage, nationality, permanent address, residential address, official address, passport No. (if any), qualification, experience, etc.

8. *Attach list of key executives including CEO/MD along with details as in 7 above.

9. *(i) Authorized Share Capital, (ii) Paid-up Share Capital

10(a) *Shareholding pattern of the applicant company in the table 1 and 2 : o be annexed as per format given

10(b) *In case there is any foreign investment direct or indirect in the applicant company then whether complying with Foreign investment norms/ FIPB approval requirement (details)
11. (i) Present Area of Operation (if in more than one city, city-wise details to be given).
   (ii) Details of the area in which IPTV services are sought to be provided
   (iii) Date from which IPTV services are proposed to be offered
   (iv) Total no. of existing subscribers
   (v) Subscribers proposed to be covered by IPTV service

12. (i) No. and details of TV channels sought to be provided (own/broadcasters')
   (ii) Source of content (Broadcaster/MSO/Cable operator) with details
   (iii) In case the content is obtained from MSO/Local cable operator, whether such MSO/Cable operator possesses due rights from the content owner/broadcaster for the IPTV platform

13. Other value added services proposed to be provided (details along with how authorized/approvals obtained from competent authority/technical details).
   Arrangements made to ensure compliance of Programme and Advertisement Code (Details)

14. How is the requirement of commercial interoperability of Set Top Boxes sought to be complied with?

15. Arrangements made/proposed to be made to comply with content storage/content monitoring requirements as contained in the Guidelines (Give full details)

I/We ..........................................., the applicant(s) **(individual/firm/company/association of persons/body of individuals) do hereby declare that the above facts are correct in all respects.

I/We hereby undertake to abide by all the conditions contained in the Guidelines for provisioning of IPTV services and any future amendments thereto/directions/orders/regulations that the Central Government or the TRAI may lay down/issue for the provisioning of IPTV services or any other law as may be applicable.

Signature/Authorized person

**(individual/firm/company/association of persons/body of individuals)

Place ......................

Date ......................

* To be given in case applicant is a Company

** Score out the word or words which are not applicable.
Indian Standard
DIGITAL SET TOP BOX FOR DIRECT-TO-HOME (DTH) SERVICES — SPECIFICATION

ICS 33.060.40

© BIS 2003
BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

June 2003
FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Radiocommunication Sectional Committee had been approved by the Electronics and Telecommunication Division Council.

There is no ISO/IEC Standard on this subject.

The Committee responsible for the formulation of this standard has reviewed the provisions of the following international publications and has decided that these may be used in conjunction with this standard till Indian Standards on these subjects are published:


EN 50221 Common interface specification for conditional access and other digital video broadcast decoder applications

EN 300421 Digital video broadcasting (DVB); Framing structure, channel coding and modulation for 11/12 GHz satellite services

EN 300468 Digital video broadcasting (DVB); Specification for service information (SI) in DVB systems

EN 301192 Digital video broadcasting (DVB); Specification for data broadcasting

EN 301195 Digital video broadcasting (DVB); Interaction channel through the global system for mobile communications (GSM)

EN 301790 Digital video broadcasting (DVB); Interaction channel for satellite distribution systems

ETR 211 Digital broadcasting systems for television: Guidelines on implementation and usage of service information (SI) in DVB systems

ETR 289 Digital video broadcasting (DVB); Support for use of scrambling and conditional access (CA) within digital broadcasting systems

ETS 300801 Digital video broadcasting (DVB); Interaction channel through public switched telecommunications network (PSTN)/Integrated services digital networks (ISDN)

ETSI TR 101202 Digital video broadcasting (DVB); Implementation guidelines for data broadcasting

ETSI TS 102006 Digital video broadcasting (DVB); Specification for system software update in DVB systems

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.
Indian Standard

DIGITAL SET TOP BOX FOR DIRECT-TO-HOME (DTH) SERVICES — SPECIFICATION

1 SCOPE

This standard specifies the requirements for digital set top box (STB) used by subscriber to view multichannel television programmes in Ku band by using a satellite system by providing television signals direct to subscribers' premises without passing through an intermediary such as cable operator.

2 REFERENCES

The standards listed in Annex A contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in Annex A.

3 REQUIREMENTS

3.1 General Requirements

3.1.1 The STB shall be open architecture (non-proprietary) and shall ensure technical compatibility and effective interoperability amongst different DTH service providers in the country. The interoperability shall be achieved by using common interface complying to EN 50221 ‘Common interface specification for conditional access and other digital video broadcast decoder applications’ and via software download where the software download mechanism shall be transparent, interoperable and available in public domain complying with specification ETSI TS 102006. The STB must have at least one common interface slot complying to EN 50221.

3.1.2 The manufacturer shall ensure compatibility/interfacing of STB with consumer electronic equipment such as televisions, audio systems and VCRs, etc, in the country.

3.1.3 Forward Path

The STB shall support reception and processing of DVB-S (EN 300421) compliant digitally modulated signal. It shall be able to receive and process service information (SI) as laid down in EN 300468 and ETR 211. For data services (if implemented), it shall be able to receive data bit streams compliant to EN 301192 and ETSI TR 101202.

3.1.4 Return Path

For interactive applications, the STB may have the provision of processing signal on return path, if the service for return path is provided by the service provider. The return path signal may be in accordance with ETS 300801 for interaction through PSTN and ISDN, with EN 301195 for interaction through GSM mobile services or with EN 301790 for interaction through satellite.

3.1.5 Conditional Access/Scrambling

The conditional access system/scrambling shall conform to DVB-S (EN 300421) and DVB-CSA (ETR-289).

3.1.6 Smart Card

The STB may have provision for smart card operation. If smart card is provided, it shall be in accordance with IS 14202 (Parts 1, 2 and 3).

3.2 Performance Requirements

The requirements for various performance parameters for digital set top box shall be as given in Table 1.

3.3 Safety Requirements

The safety requirements of set top box shall conform to IS 13252.

3.4 Electromagnetic Compatibility (EMC) Requirements

The EMC requirements of the STB shall conform to IS 6873 (Part 3).

4 MARKING

4.1 Each STB shall be legibly and indelibly marked with at least the following information:

a) Manufacturer's name or trade-mark (if any);
b) Model designation and serial No. ;
c) Country of manufacture;
d) Input supply voltage and frequency;
e) Power consumption;
f) Satellite input terminal and satellite output terminal; and

g) Sockets for audio and video output.
# Table 1 Performance Requirements

*(Clauses 3.2, 5.6 and 6)*

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Parameters</th>
<th>Requirements</th>
<th>Method of Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
</tr>
<tr>
<td>i)</td>
<td>Electrical specifications:</td>
<td>90-270V AC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Input voltage range</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Frequency</td>
<td>50 Hz ± 5 percent</td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>Connectors:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Satellite input</td>
<td>75 ohms impedance, female connector (as per IEC 60169-24)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Output video</td>
<td>1 X RCA type</td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Output audio (L and R)</td>
<td>2 X RCA type</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) RF output</td>
<td>75 ohms impedance, male connector (as per IEC 60169-2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>e) Telephone line</td>
<td>Optional: RJ 11</td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>RF characteristics of the DTH signal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) System</td>
<td>DVB-S (compliant to EN 300421)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Modulation</td>
<td>QPSK</td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Carrier to noise ratio</td>
<td>Compliant to DVB-S</td>
<td></td>
</tr>
<tr>
<td>iv)</td>
<td>LNB control</td>
<td>STB shall have provisions to provide proper power supply and switching signal for oscillator selection and polarization selection for LNB</td>
<td></td>
</tr>
<tr>
<td>v)</td>
<td>Channel tuner performance characteristics:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Input level per carrier</td>
<td>—65 dBm, Min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>—25 dBm, Max</td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Input frequency range</td>
<td>950 MHz to 2 150 MHz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Symbol rate</td>
<td>Compliant to DVB-S</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) RF input impedance</td>
<td>75 ohms</td>
<td></td>
</tr>
<tr>
<td></td>
<td>e) RF input return loss</td>
<td>6 dB, Min</td>
<td></td>
</tr>
<tr>
<td></td>
<td>f) Frequency assignment download</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>vi)</td>
<td>RF re-modulator output:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>a) Modulation format</td>
<td>PAL B (for VHF) or PAL G (for UHF)</td>
<td>4.7 of IS 13420 (Part 1)</td>
</tr>
<tr>
<td></td>
<td>b) RF output channel</td>
<td>VHF Channel 3/4 or Agile/THF</td>
<td>4.5 of IS 13420 (Part 1)</td>
</tr>
<tr>
<td></td>
<td>c) RF output level</td>
<td>—60 dBmV, Min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>—80 dBmV, Max</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) Carrier to noise ratio</td>
<td>44 dB, Min</td>
<td></td>
</tr>
<tr>
<td>vii)</td>
<td>Remote control</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>viii)</td>
<td>PSTN modem/ISDN codec</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>ix)</td>
<td>Operating temperature range</td>
<td>0°C to 50°C</td>
<td></td>
</tr>
<tr>
<td>x)</td>
<td>Operating humidity range</td>
<td>5 percent to 95 percent (non-condensing)</td>
<td></td>
</tr>
<tr>
<td>xi)</td>
<td>Finger printing</td>
<td>Essential but service provider free to choose mechanism</td>
<td></td>
</tr>
</tbody>
</table>

## 4.2 BIS Certification Marking

The STB may also be marked with the Standard Mark.

### 4.2.1 The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulation made thereunder. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers and producers may be obtained from the Bureau of Indian Standards.

## 5 ENVIRONMENTAL TESTS

### 5.1 Bump Test

The STB shall be subjected to bump test carried out in accordance with IS 9000 (Part 7/Sec 2), the number of bumps being 500 ± 10 and acceleration being 400 m/s². After this test the STB shall conform to the performance requirements specified in 5.6. This test shall be carried out under packed condition.
5.2 Drop Test

The STB shall withstand drop test as given in IS 13252. After this test the STB shall conform to the performance requirements specified in 5.6.

5.3 Dry Heat Test

The STB shall be subjected to dry heat test of severity +55°C for 16 h, carried out in accordance with IS 9000 (Part 3/Sec 5). After recovery, the STB shall conform to the performance requirements specified in 5.6. The duration of the recovery shall be 2 h.

5.4 Damp Heat Test

The STB shall be subjected to damp heat cyclic test in accordance with IS 9000 (Part 5/Sec 1). After recovery, the STB shall conform to the performance requirements specified in 5.6. The duration of the recovery shall be 24 h.

5.5 Cold Test

The STB shall withstand a cold test of severity -10°C for 2 h carried out in accordance with IS 9000 (Part 2)

Sec 4). After recovery, the STB shall conform to the performance requirements specified in 5.6. The duration of the recovery shall be 2 h.

5.6 Post-Measurement after each Environmental Test

After each environmental test (see 5.1 to 5.5), the STB shall meet the safety requirements of 3.3 and the requirements specified in Table 1 for the following parameters:

a) RF output level [SI No. (vi) (c) of Table 1
b) Carrier to noise ratio [SI No. (vi) (d) Table 1], and

6 OPERATING LIFE TEST

The STB shall be subjected to operating life test consisting of 5 h operation and 1 h rest period for a total operating period of 1 000 h at rated voltage. At the end of the operating life duration, the requirements specified in 3.3 and Table 1 shall be met with.

ANNEX A
(Clause 2)

LIST OF REFERRED INDIAN STANDARDS

<table>
<thead>
<tr>
<th>Title</th>
<th>IS No</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limits and methods of measurement</td>
<td>IS 13252 : 2003</td>
<td>Safety of information technology equipment including electrical</td>
</tr>
<tr>
<td>Radio disturbance characteristics:</td>
<td></td>
<td>business equipment (first revision)</td>
</tr>
<tr>
<td>Part 3 Sound and television broadcast</td>
<td></td>
<td>Cabled distribution systems: Part 1 Methods of measurement and system</td>
</tr>
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<td>receivers and associated equipment (first revision)</td>
<td></td>
<td>performance (second revision)</td>
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<tr>
<td>Basic environmental testing procedures for electronic and electrical</td>
<td></td>
<td>Identification cards — Integrated</td>
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<tr>
<td>items:</td>
<td></td>
<td>circuit(s) — Cards with contacts (first revision)</td>
</tr>
<tr>
<td>Cold test, Section 4 Cold test for heat dissipating items with</td>
<td></td>
<td>(Part 1) : 2003 Physical characteristics (first revision)</td>
</tr>
<tr>
<td>gradual change of temperature</td>
<td></td>
<td>(Part 2) : 2003 Dimensions and location of the contacts (first</td>
</tr>
<tr>
<td>Dry heat test, Section 5 Dry heat test for heat dissipating items with</td>
<td></td>
<td>revision)</td>
</tr>
<tr>
<td>gradual change of temperature</td>
<td></td>
<td>Electronic signals and transmission protocols (first revision)</td>
</tr>
<tr>
<td>Damp heat cyclic test, Section 1 16 + 8 h cycle</td>
<td></td>
<td>(Part 3) : 2002</td>
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</table>
Bureau of Indian Standards

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Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of ‘BIS Catalogue’ and ‘Standards: Monthly Additions’.

This Indian Standard has been developed from Doc : No. TD 20 (2003).

Amendments Issued Since Publication

<table>
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<th>Amend No.</th>
<th>Date of Issue</th>
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</tbody>
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BUREAU OF INDIAN STANDARDS

Headquarters:
Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110 002
Telephone: 2323 0131, 2323 33 75, 2323 9402

Regional Offices:
Central Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110 002

Eastern 1/14 C.I.T. Scheme VII M, V. I. P. Road, Kankurgachi
KOLKATA 700 054

Northern SCO 355-336, Sector 34-A, CHANDIGARH 160 022

Southern C.I.T. Campus, IV Cross Road, CHENNAI 600 113

Western : Manakalaya, E9 MIDC, Marol, Andheri (East)
MUMBAI 400 093

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CHECK LIST FOR APPLICANTS FOR GRANT OF LICENSE UNDER THE
GUIDELINES FOR OPERATING DTH SERVICE IN INDIA

1. Application
1.1 Application to be submitted to the Secretary, I&B in triplicate in the prescribed
pro-forma (Form A). The following documents are to be enclosed by the
applicant:
(i) Application in triplicate in Form A
(ii) Certificate of Incorporation;
(iii) Article of Association of the applicant Company
(iv) Board Resolution for applying for permission and nomination of
Authorized signatory.
(v) Details of shareholding pattern as per Table 1 and Table 2 of the
application Form A. (If there is any foreign investment direct or indirect,
copy of FIPB approval to be attached).
(vi) Complete Bio-data of each of the members of Board of Directors, key
executives such as CFO, CEO, Marketing head etc. as per Annexure-A
(vii) Detailed project report indicating financial, technical, operational
implications and block schematic diagrams of block schematic diagramme
of various technical components including the suggested building plan,
details of the proposed value added services proposed to be provided etc.
(viii) Footprint of the Satellite on which the transponder are to be hired
(ix) Lease Agreement for hiring of satellite capacity *(not necessary)
(x) Undertakings in the format at Annexure- B on non-judicial stamp paper
(xi) Net worth certificate as per the format (Annexure-C) *(Though the
guidelines do not specify the minimum Net worth of the applicant
company but it should not be less than Rs.10 Crores )

ACTION TO BE TAKEN BY APPLICANT AFTER ISSUE OF LOI

2.1 Applicant to obtain SACFA Clearance from Wireless Planning and Coordination
(WPC), Deptt. Of Communications.

Furnishing of Bank guarantee
2.2 Applicant to furnish, within one month of obtaining of SACFA clearance, a Bank
Guarantee of Rs. 40 crores in Form-C from any scheduled bank valid for the
duration of the license.
2.3 Applicant to submit a copy of SACFA clearance, Board Resolution, authority
letter/power of attorney for signing License agreement and affidavits as prescribed
in the Loi.

Signing of License Agreement
2.4 Signing of license agreement by the applicant with Ministry of I&B in Form B.
2.5 Authorized Signatory to come up with two copies of License Agreement in Form-
B each typed on the non-judicial Stamp paper of Rs.100/-

NOTE: This check list is not exhaustive. The Ministry reserves the right to call for
such additional information as may be required and deemed fit & necessary.
However the application(s) received without the documents /papers listed in the
check list above will be rejected summarily.

****
ANNEXURE-A

BIO–DATA

1. Name:
2. Parentage:
3. Date and place of Birth:
4. Nationality:
5. Passport details, if any:
6. Details of employments (In chronological order):
7. Position held:
8. Address (Permanent, residential & official):
9. Any other information:
10. DIN No.:
11. Name and contact details of the other companies in which the member is also a Director:
ANNEXURE-B

Non-judicial stamp paper of Rs.10/-

UNDERTAKING

We (name of the Company) having registered office at (Complete address of the company) have applied to Ministry of Information & Broadcasting, Government of India for setting up DTH platform on Ku Band in India and with reference to Ministry of Information & Broadcasting, Government of India letter No. ______________ dated _____, we hereby do solemnly affirm and state as under:

(i) We undertake to ensure that our DTH platform shall not carry signals of a broadcaster who has been found by any regulatory body or court of law to have:
   (a) refused access on non-discriminatory basis to any other DTH operator as laid down in the regulations of Telecom Regulatory Authority of India (TRAI); or
   (b) violated the provisions of any law relating to competition including the Competition Act.

(ii) We undertake not to enter into any exclusive contract for distribution of TV Channels on DTH platform.

(iii) We undertake that the STBs/IRD installed at the TV set of the subscriber shall not be proprietary in nature.

(iv) We undertake and state that no exclusive TV channel shall originate from their DTH Centre or any other establishment run by the Company.

(v) We hereby undertake to ensure that the DTH subscribers will not have access to pornographic channels or to secret/anti-national messaging and the like. In the event of any violation of this undertaking by us the license granted to us may be cancelled.

Place:

For and on behalf of the (name of the applicant Company)

Date:

(Signature with name and complete address of the authorized signatory/CEO/Director on the Board of the Company)
FORMAT FOR CERTIFICATE OF NET WORTH BY STATUTORY AUDITORS

We have audited the Books of Accounts of for the financial year ended/period ended month-day-year, 20 and certify that the “Net Worth” of Applicant Company as on is Rs. lacs (Rupees in words lacs). We further certify that the Net Worth of the Applicant Company is computed as follows:

<table>
<thead>
<tr>
<th>SL.No.</th>
<th>Particulars</th>
<th>Amount in Rupees-lacs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Book Value of assets</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Book value of fictitious and intangible assets</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Liabilities other than owner’s funds</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Net Worth {1-(2+3)}</td>
<td></td>
</tr>
</tbody>
</table>

Place/Date

Signature Auditors

Note:

NET WORTH
The excess of the book value of assets other than fictitious and intangible assets of an enterprise over its liabilities. This is also referred to as Net assets or shareholder’s funds.

BOOK VALUE OF ASSETS
The amount at which an item appears in the books of account or financial statement. It does not refer to any particular basis on which the amount is determined. Eg. Cost, replacement value etc.

Fictitious Assets
Items grouped under the assets in a balance sheet which has no real value (eg. The debit balance of the profit and loss account)

LIABILITIES
The financial obligation of an enterprise other than owner’s funds.