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TRADE GUIDE

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SCAT INDIA

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SATELLITE & Cable TV



E-EDITION

.....including Broadband & IPTV

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HITS TECHNOLOGY OVERVIEW



INTERVIEW

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CEO, Vortex Group

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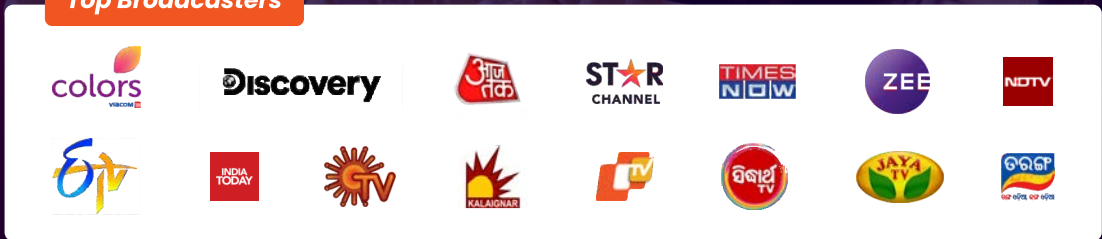
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CATV Contents

7 EDITORIAL / संपादकीय

ARTICLES...

24 VORTEX GROUP: PIONEERS IN INTERNET TECHNOLOGY AND DIGITAL TRANSFORMATION

32 UPDATED LATEST AUDITORS REPORT

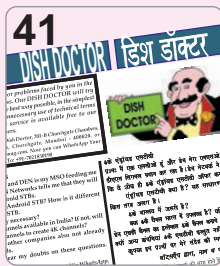


FOCUS 27



INDIA'S CABLE INDUSTRY AMID SHIFTING MEDIA LANDSCAPES AND POLICY OVERHAULS

मीडिया परिदृश्य और नीतिगत बदलावों के बीच भारत का केबल उद्योग



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EDITOR'S SCATVIEW

Manoj Kumar Madhavan

As we usher in the new year, it is evident that India's cable TV industry stands at a critical juncture. The convergence of technological advancements, shifting consumer preferences, and evolving regulatory frameworks is shaping a vibrant yet challenging media landscape. This issue delves into key developments and trends that will define the future of the industry.

The media and entertainment ecosystem are transforming, driven by the rise of streaming platforms, hyper-personalized content, and policy interventions. From updates on tariff orders to the implications of new broadcasting regulations, we analyse how cable operators can stay relevant and competitive in this dynamic environment.

This edition provides an in-depth look at Headend in the Sky (HITS) technology—a solution streamlining distribution for cable operators and expanding access to high-quality services. As more players explore this efficient infrastructure, we outline its benefits and potential to revolutionize content delivery across India's diverse markets.

Consumer demands for 4K content, interactive TV features, and seamless integrations with OTT platforms are reshaping the cable TV market. We examine how operators are leveraging cutting-edge solutions, including cloud-based workflows and AI, to redefine the viewer experience.

With digital addressable systems (DAS) audits playing a vital role in ensuring compliance and operational efficiency, we present an updated list of empanelled auditors. This resource aims to guide operators in maintaining transparency and upholding industry standards.

Vortex Netsolutions has been driving innovation in the cable and broadband sector for many years and contributing to improving the efficiency and quality of service for cable operators and ISPs. An in-depth interview follows in this issue.

As always, Satellite & Cable TV Magazine remains committed to equipping stakeholders with insights and updates that empower them to navigate and thrive in an ever-changing industry. Here's to a year of innovation and growth!

(Manoj Kumar Madhavan)

नये साल की शुरुआत के साथ ही यह स्पष्ट हो गया कि भारत का केवल टीवी उद्योग एक महत्वपूर्ण मोड़ पर खड़ा है। तकनीकी प्रगति, बदलती उपभोक्ता प्राथमिकताएँ और विकसित होते विनियामक ढांचे के कन्वर्जस ने एक जीवंत लेकिन चुनौतीपूर्ण मीडिया परिदृश्य को आकार दिया है। यह अंक उन प्रमुख विकासों और रुझानों पर प्रकाश डालता है जो उद्योग के भविष्य को परिभाषित करेंगे।

मीडिया और मनोरंजन पारिस्थितिकी तंत्र में बदलाव हो रहा है, जो स्ट्रीमिंग प्लेटफॉर्म, हाइपर-पर्सनलाइज्ड कंटेंट और नीतिगत हस्तक्षेपों के उदय से प्रेरित है। टैरिफ आर्डर के अपडेट से लेकर नये प्रसारण नियमों के निहितार्थ तक, हम विश्लेषण करते हैं कि केवल ऑपरेटर इस गतिशील वातावरण में कैसे प्रासांगिक और प्रतिस्पर्धी बने रह सकते हैं।

यह संस्करण हेडएंड-इन-द-स्काई (हिट्स) तकनीक पर गहन जानकारी प्रदान करता है—यह केवल ऑपरेटरों के लिए वितरण को सुव्यवस्थित करने और उच्च गुणवत्ता वाली सेवाओं तक पहुंच का विस्तार करने वाला समाधान है। जैसे-जैसे अधिक से अधिक ग्लोबलाइज़ी इस कुशल बुनियादी ढांचे का पता लगा रहे हैं, हम भारत के विविध बाजारों में सामग्री वितरण क्रांति लाने के लिए इसके लाभों और क्षमता को रेखांकित करते हैं।

4के कंटेंट, इंटरैक्टिव टीवी फीचर और ओटीटी प्लेटफॉर्मों के साथ सहज एकीकरण के लिए उपभोक्ता मांग केवल टीवी बाजार को नया आकार दे रही है। हम जांच करते हैं कि ऑपरेटर किस तरह से क्लॉउड आधारित वर्कफ्लो और एआई सहित अत्याधुनिक समाधानों का लाभ उठा रहे हैं, ताकि दर्शकों के अनुभव को फिर से परिभाषित किया जा सके।

डिजिटल एड्रेसेबल सिस्टम (डीएएस) ऑडिट अनुपालन और परिचालन दक्षता सुनिश्चित करने में महत्वपूर्ण भूमिका निभाते हैं, इसलिए हम पैनेल में शामिल ऑडिटरों की एक अपडेटेड सूची प्रस्तुत कर रहे हैं। इस संसाधन का उद्देश्य ऑपरेटरों को पारदर्शिता बनाये रखने और उद्योग मानकों को बनाये रखने में मार्गदर्शन करना है।

वोर्टेक्स नेटसॉल्यूशंस कई वर्षों से केवल और बॉडवैंड क्षेत्र में नयी खोजों को आगे बढ़ा रहा है और केवल ऑपरेटरों आईएसपी के लिए सेवा की दक्षता और गुणवत्ता में सुधार करने में योगदान दे रहा है। इस अंक में एक गहन साक्षात्कार दिया गया है।

हमेशा की तरह, सैटेलाइट और केवल टीवी मैगजीन हितधारकों को अंतर्दृष्टि और अपडेट से लैस करने के लिए प्रतिबद्ध है जो उन्हें लगातार बदलते उद्योग में नेविगेट करने और पनपने के लिए सशक्त बनाता है। यह वर्ष नयी खोज और विकास का है।

(Manoj Kumar Madhavan)

ZEE AUDIT LAPSE FINE ON DELOITTE HASKINS & SELLS

The National Financial Reporting Authority (NFRA) has imposed a Rs 2 crore fine on Deloitte Haskins & Sells for audit deficiencies concerning Zee Entertainment Enterprises Ltd. (ZEEL) during the financial years 2018-19 and 2019-20. Additionally, chartered accountants A.B. Jani and Rakesh Sharma have been fined Rs 10 lakh and Rs 5 lakh, respectively.

Jani, the Engagement Partner (EP), has been barred from auditing for five years, while Sharma, the Engagement Quality Control Reviewer (EQCR), faces a three-year ban.

The NFRA highlighted that the auditors failed to exercise professional skepticism, neglected management assertions, and overlooked unauthorized guarantees, premature fixed deposit closures, and fund misappropriations—all involving ZEEL's chairman and management.



जी ऑडिट में चूक के कारण डेलॉइट हैस्किन्स एंड सेल्स पर जुर्माना

राष्ट्रीय वित्तीय रिपोर्टिंग प्राधिकरण (एनएफआरए) ने वित्तीय वर्ष 2018-19 और 2019-20 के दौरान जी एंटरटेनमेंट एंटरप्राइजेज लिमिटेड (जेडईईएल) से संबंधित ऑडिट कमियों के लिए डेलॉइट हैस्किन्स एंड सेल्स पर 2 करोड़ रुपये का जुर्माना लगाया है। इसके अतिरिक्त चार्टर्ड अकाउंटेंट ए.बी.जानी और राकेश शर्मा पर क्रमशः 10 लाख रुपये और 5 लाख रुपये का जुर्माना लगाया गया है। एंगेजमेंट पार्टनर (ईपी) जानी को पांच साल के लिए ऑडिट करने से रोक दिया गया है, जबकि एंगेजमेंट क्वालिटी कंट्रोल रिव्यूअर (ईक्यूसीआर) शर्मा पर तीन साल का प्रतिबंध लगाया गया।

एनएफआरए ने इस बात पर प्रकाश डाला कि लेखा परीक्षक पेशेवर संदेह का प्रयोग करने में विफल रहे, प्रबंधन के दावों की उपेक्षा की और अनधिकृत गारंटी, समय से पहले सावधि जमा बंद करने और निधि के दुरुपयोग को नजरअंदाज किया—ये सभी जेडईईएल के अध्यक्ष और प्रबंधन से संबंधित हैं।

BROADCASTERS URGE FOR FAIRPLAY

At an open house discussion held by the Telecom Regulatory Authority of India (TRAI) on its consultation paper regarding ground-based broadcasters (GBBs), stakeholders emphasized the need to treat GBBs and satellite-based broadcasters (SBBs) equitably.

Participants sought clarification on the definition of terrestrial communication used in the consultation paper. The All India Digital Cable Federation (AIDCF) called for distinctions between GBBs and SBBs based on transmission mediums.



प्रसारकों ने निष्पक्षता का आग्रह किया

भारतीय दूरसंचार विनियामक प्राधिकरण (ट्राई) द्वारा ग्राउंड आधारित प्रसारकों (जीवीवी) के बारे में अपने परामर्श पत्र पर आयोजित एक ओपन हाउस चर्चा में, हितधारकों ने जीवीवी और सैटेलाइट आधारित प्रसारकों (एसवीवी) के साथ समान व्यवहार करने की आवश्यकता पर जोर दिया। प्रतिभागियों ने परामर्श पत्र में प्रयुक्त टेरिस्ट्रियल संचार की परिभाषा पर स्पष्टीकरण मांगा। ऑल इंडिया डिजिटल केबल फेडरेशन (एआईडीसीएफ) ने ट्रांसमिशन माध्यमों के आधार पर जीवीवी और एसवीवी के बीच अंतर करने का आह्वान किया।

RAJAT SHARMA DEEPFAKE CONTENT

The Delhi High Court has issued an interim order directing the removal of AI-generated deepfake content misusing the likeness of senior journalist Rajat Sharma.

Sharma alleged that the content falsely endorsed drugs for diabetes, joint pain, and other ailments, infringing his personality and publicity rights. The court acknowledged the



रजत शर्मा डीपफेक कंटेंट

दिल्ली उच्च न्यायालय ने वरिष्ठ पत्रकार रजत शर्मा की छवि का दुरुपयोग करते हुए एआई द्वारा निर्मित डीपफेक कंटेंट को हटाने का अंतरिम आदेश जारी किया है।

शर्मा ने आरोप लगाया कि इस सामग्री में मधुमेह, जोड़ों के दर्द और अन्य बीमारियों के लिए दवाओं का गलत तरीके से प्रचार किया गया है जिससे उनके व्यक्तित्व और प्रचार अधिकारों का उल्लंघन हुआ है। अदालत ने इस तरह के

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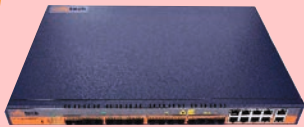


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potential harm caused by such fraudulent endorsements and will consider a permanent injunction in the matter.

NEW IBDF PRESIDENT

The Indian Broadcasting & Digital Foundation (IBDF) announced Kevin Vaz as its new president during its 25th Annual General Meeting (AGM). Rajat Sharma, Gaurav Banerjee, and R. Mahesh Kumar were elected vice presidents, while I. Venkat was named treasurer.



The AGM also revealed notable board appointments, including Aron Purie (TV Today), Gaurav Dwivedi (Prasar Bharati), and Punit Goenka (Zee Media), among others.

REGULATION ON DD FREE DISH

The Telecom Disputes Settlement and Appellate Tribunal (TDSAT) declined broadcasters' requests to stay TRAI's tariff regulation regarding pay channels on DD Free Dish. Broadcasters must file a new Reference Interconnect Offer (RIO) within two weeks.



CRACKDOWN ON MSO REGISTRATIONS

As of November 2024, the Ministry of Information and Broadcasting reported a drop in Multi-System Operator (MSO) registrations to 843, compared to 998 in 2023. Over the past decade, more than 1,000 MSO registrations were canceled due to non-compliance or inactivity.

WARNER BROS DISCOVERY RESTRUCTURES

Warner Bros Discovery has announced plans to separate its TV networks and streaming/studio business into two distinct units. This restructuring aims to maximize profitability for its TV division while driving growth in its streaming and studio sectors. ■



धोखाधड़ी प्रचार से होने वाले संभावित नुकसान को स्वीकार किया और इस मामले में स्थायी निषेधाज्ञा पर विचार करेगी।

आईबीडीएफ के नये अध्यक्ष

इंडियन ब्रॉडकास्टिंग एंड डिजिटल फाउंडेशन (आईबीडीएफ) ने अपनी 25वीं वार्षिक आम बैठक (एजीएम) के दौरान केविन वाज को अपना नया अध्यक्ष घोषित किया। रजत शर्मा, गौरव बनर्जी और आर. महेश कुमार को उपाध्यक्ष चुना गया, जबकि आई.वेण्कट को कोषाध्यक्ष बनाया गया।

एजीएम में बोर्ड के कई उल्लेखनीय नियुक्तियों का भी खुलासा हुआ, जिसमें अरुण पुरी (टीवी टूडे), गौरव द्विवेदी (प्रसार भारती) और पुनीत गोयनका (जी मीडिया) शामिल हैं।

डीडी फ्रीडिश पर विनियमन

दूरसंचार विवाद निपटान और अपीलीय न्यायाधिकरण (टीडीसेट) ने डीडी फ्री डिश पर पे चैनलों के संबंध में ट्राई के टैरिफ विनियमन पर रोक लगाने के प्रसारकों के अनुरोध को अस्वीकार कर दिया है। प्रसारकों को दो सप्ताह के भीतर एक नया संदर्भ इंटरकनेक्ट ऑफर (आरआईओ) दाखिल करना होगा।

एमएसओ पंजीकरण पर कार्रवाई

नवंबर 2024 तक, सूचना और प्रसारण मंत्रालय ने मल्टी सिस्टम ऑपरेटर (एमएसओ) पंजीकरण में 2023 में 998 की तुलना में 843 तक की गिरावट की सूचना दी। पिछले एक दशक में गैर अनुपालन या निष्क्रियता के कारण आईएंडवी मंत्रालय द्वारा 1000 से अधिक एमएसओ पंजीकरण रद्द किये गये।

वार्नर ब्रदर्स डिस्कवरी पुर्नगठन

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MANISH KALRA EXITS FROM ZEE5

Manish Kalra, Chief Business Officer for Global Markets at ZEE5, has decided to move on, as confirmed by sources. Kalra, who recently assumed responsibilities for ZEE5's global markets, is currently serving a 90-day notice period.

During his tenure, Kalra played a pivotal role in the growth of the streaming platform. With over 20 years of experience in online business and marketing, Kalra's expertise spans leadership roles at Amazon, MakeMyTrip, HomeShop18, Dell, and Craftsvilla, where he held positions such as Chief Marketing Officer, Chief Business Officer, and CEO.

A graduate of Punjab Engineering College with a degree in mechanical engineering and an MBA from XLRI, Jamshedpur, Kalra's departure marks the end of a significant chapter for ZEE5.



मनीष कालरा ने जी5 से इस्तीफा दिया

जी5 में ग्लोबल मार्केट्स के चीफ बिजनेस ऑफिसर मनीष कालरा ने पद छोड़ने का फैसला किया है, सूत्रों ने इस बात की पुष्टि की है। कालरा, जिन्होंने हाल ही में जी5 के ग्लोबल मार्केट्स की जिम्मेदारी संभाली है, वर्तमान में 90 दिनों की नोटिस अवधि को पूरा कर रहे हैं।

अपने कार्यकाल के दौरान, कालरा ने स्ट्रीमिंग प्लेटफॉर्म के विकास में महत्वपूर्ण भूमिका निभायी। ऑनलाइन व्यवसाय और मार्केटिंग में 20 से अधिक वर्षों के अनुभव के साथ कालरा की विशेषज्ञता अमेजन, मेक माई ट्रिप, होम शॉप 18, डेल और क्राफ्टसविला में नेतृत्वकारी भूमिकाओं तक फैली हुई है, जहां उन्होंने मुख्य मार्केटिंग अधिकारी, मुख्य व्यवसाय अधिकारी और सीईओ जैसे पद संभाले।

पंजाब इंजीनियरिंग कॉलेज से मैकेनिकल इंजीनियरिंग में स्नातक और एक्सएलआरआई, जमशेदपुर से एमबीए करने वाले कालरा का जाना जी5 के लिए एक महत्वपूर्ण अध्याय का अंत है।

खेलों में आगे बढ़ता नेटफ्लिस्क

नेटफ्लिस्क ने संयुक्त राज्य अमेरिका में 2027 और 2031 में होने वाले फीफा महिला विश्वकप के लिए विशेष प्रसारण अधिकार प्राप्त किये हैं, जो खेल मीडिया अधिकारों के लिए एक बड़ी उपलब्धि है।

फीफा अध्यक्ष जियानी इन्फैंटिनो ने कहा, 'यह एक ऐतिहासिक क्षण है।' उन्होंने महिला फुटबॉल को बढ़ावा देने के लिए नेटफ्लिस्क की प्रतिबद्धता का उल्लेख किया और इस बात पर जोर दिया कि यह सौदा फीफा महिला विश्वकप और वैश्विक महिला खेलों के बढ़ते महत्व को रेखांकित करता है।

NETFLIX SCORE ON SPORTS

Netflix has won the exclusive broadcast rights for the FIFA Women's World Cup in 2027 and 2031 in the United States, marking a major milestone for sports media rights.

"This is a landmark moment," stated FIFA President Gianni Infantino. He noted Netflix's commitment to growing women's football and emphasized that the deal underscores the rising value of the FIFA Women's World Cup and global women's games.



OTT CONTENT REGULATION ON THE ANVIL

A Parliamentary Standing Committee on Communications and Information Technology recently met with industry bodies to discuss regulations on over-the-top (OTT) content amid concerns over obscenity.

Union Minister Ashwini Vaishnav highlighted the need to strengthen laws governing OTT platforms and social media, citing the diminishing editorial checks in digital content. While the government considers



ओटीटी कंटेंट विनियमन पर विचार

संचार और सूचना प्रौद्योगिकी पर संसद की स्थायी समिति ने हाल ही में उद्योग निकायों के साथ बैठक की, जिसमें अश्लीलता पर चिंताओं के बीच ओवर-द-टॉप (ओटीटी) कंटेंट पर विनियमन पर चर्चा की गयी।

केंद्रीय मंत्री अश्वनी वैष्णव ने डिजिटल कंटेंट में संपादकीय जांच कम होने का हवाला देते हुए ओटीटी प्लेटफॉर्म और सोशल मीडिया को नियंत्रित करने वाले कानूनों को मजबूत करने की आवश्यकता पर प्रकाश डाला। जबकि

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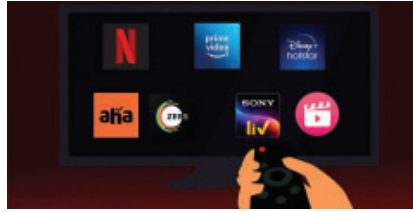


stricter regulations, industry representatives advocate for self-regulation under the Information Technology Act.

A TRANSFORMATIVE YEAR FOR OTT

Content rooted in local culture has gained traction, with regional consumption projected to surpass Hindi-language content by 2025.

However, 2024 saw challenges, including slowing subscription growth in metro markets and intensified competition following mergers like Sony-ZEE and Jio-Disney. Platforms are pivoting towards ad-supported models and shorter content formats, with user-centric innovations gaining priority.



OTT SEES REDUCED BUDGETS

India's OTT giants have significantly reduced their programming budgets, slashing investments from Rs. 5,500 crore in 2021 to around Rs. 2,500 crore in 2024.

This budget tightening has led to fewer original series and films. Netflix, for instance, produced only 10 web series in 2024 compared to 15 in 2023. Similarly, Amazon Prime Video, despite announcing a robust slate, spread many releases over multiple years.

The industry faces challenges in sustaining high-quality content while adapting to shifting audience preferences and financial constraints.

PRASAR BHARATI CREATING 'WAVES'

Prasar Bharati's OTT platform, Waves, launched on World Television Day at IFFI 2024, has surpassed 1 million downloads. The platform offers over 60 channels in 10 languages, streaming content in SD, HD, and 4K resolutions.

Integrated with ONDC, Waves also features student films and collaborations with government ministries. The Ministry of Information and Broadcasting is set to host the World Audio Visual and Entertainment Summit (WAVES) in February 2025, furthering India's presence in the media and entertainment industry. ■



सरकार सख्त नियमों पर विचार कर रही है, उद्योग प्रतिनिधि सूचना प्रौद्योगिकी अधिनियम के तहत स्व-नियमन की वकालत करते हैं।

ओटीटी के लिए परिवर्तनकारी वर्ष

स्थानीय संस्कृति पर आधारित सामग्री ने गति पकड़ी है, अनुमान है कि 2025 तक क्षेत्रीय उपभोग हिंदी भाषा की सामग्री को पार कर जायेगा।

हालांकि, 2024 में मेट्रो बाजारों में सदस्यता में कमी और सोनी-जी और जियो-डिज्नी जैसे विलय के बाद प्रतिस्पर्धा में वृद्धि सहित चुनौतियां देखी गयी। प्लेटफॉर्म विज्ञापन समर्थित मॉडल और छोटे

सामग्री प्रारूपों की ओर बढ़ रहे हैं, जिसमें उपभोक्ता केंद्रित नवाचारों को प्राथमिकता मिल रही है।

ओटीटी के बजट में कमी आयी

भारत में ओटीटी दिग्गजों ने अपने प्रोग्रामिंग बजट में उल्लेखनीय कटौती की है, 2021 में निवेश को 5500 करोड़ रुपये से घटाकर 2024 में लगभग 2500 करोड़ रुपये कर दिया है।



बजट में इस कटौती के कारण कम मौलिक सीरिज और फिल्में बन रही हैं। उदाहरण के लिए नेटफ्लिक्स ने 2024 में केवल 10 वेब सीरिज बनायी, जबकि 2023 में 15। इसी तरह अमेजन प्राइम वीडियो ने एक मजबूत स्लेट की घोषणा करने के बावजूद कई

रिलीज को कई वर्षों में फैला दिया।

उद्योग को दर्शकों की बदलती प्राथमिकताओं और वित्तीय बाधाओं के साथ तालमेल बिठाते हुए उच्च गुणवत्ता वाली सामग्री को बनाये रखने में चुनौतियों का सामना करना पड़ रहा है।

प्रसार भारती 'वेव्स' बना रहा है

आईएफएफआई 2024 में विश्व टेलीविजन दिवस पर लॉन्च किये गये प्रसार भारती के ओटीटी प्लेटफॉर्म 'वेव्स' ने 1 मिलियन डाउनलोड को पार कर लिया है। यह प्लेटफॉर्म 10 भाषाओं में 60 से अधिक चैनल प्रदान करता है, जो एसडी, एचडी और 4के रिजॉल्यूशन में कंटेंट स्ट्रीम करता है।

ओएनडीसी के साथ एकीकृत वेव्स में छात्र फिल्मों और सरकारी मंत्रालयों के साथ सहयोग भी शामिल है। सूचना व प्रसारण मंत्रालय, फरवरी 2025 में विश्व ऑडियो विजुअल और मनोरंजन शिखर सम्मेलन (वेव्स) की मेजबानी करने के लिए तैयार है, जिससे मीडिया और मनोरंजन उद्योग में भारत की उपस्थिति को बढ़ावा मिलेगा। ■



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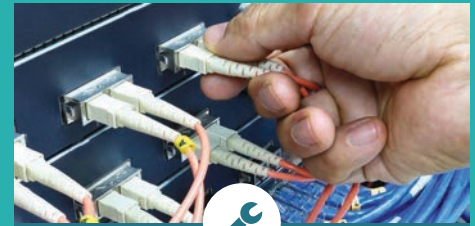
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Satellite Transmission:

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Local Cable Operators:

Receive signals via satellite dishes.
Downlink, decode, and redistribute content to end-users.

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Manages customer subscriptions and access control.
Integrates with Conditional Access Systems (CAS) to ensure secure content delivery.

हेडएंड इन द स्काई - एक अवलोकन

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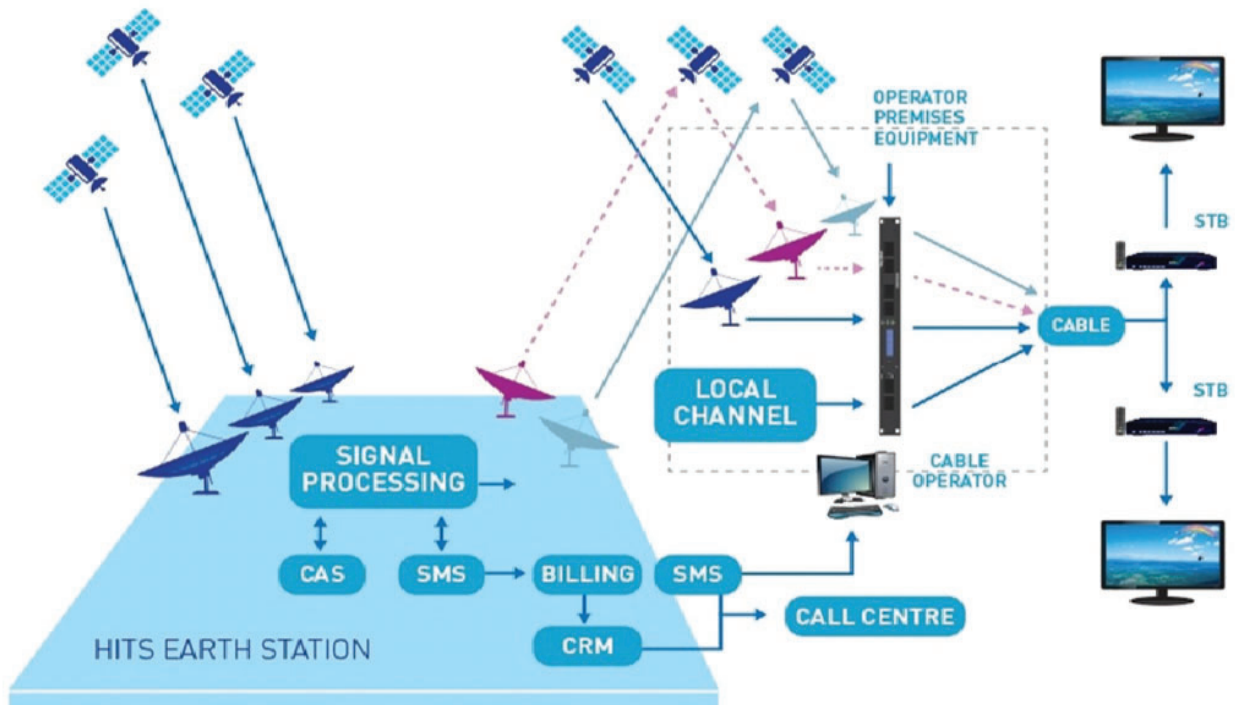
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स्थानीय केबल ऑपरेटर: सैटेलाइट डिश के माध्यम से सिगनल प्राप्त करें।

डाउनलिंक, डिकोड व अंतिम उपयोगकर्ताओं को सामग्री पुनःवितरित करें।

सब्सक्राइबर मैनेजमेंट सिस्टम (एसएमएस): ग्राहक सदस्यता और एक्सेस कंट्रोल का प्रबंधन करता है।

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- 6 sec. Splice & 8 sec. Heating Time
- Dual Independent Heaters

T & C Apply*

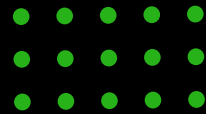
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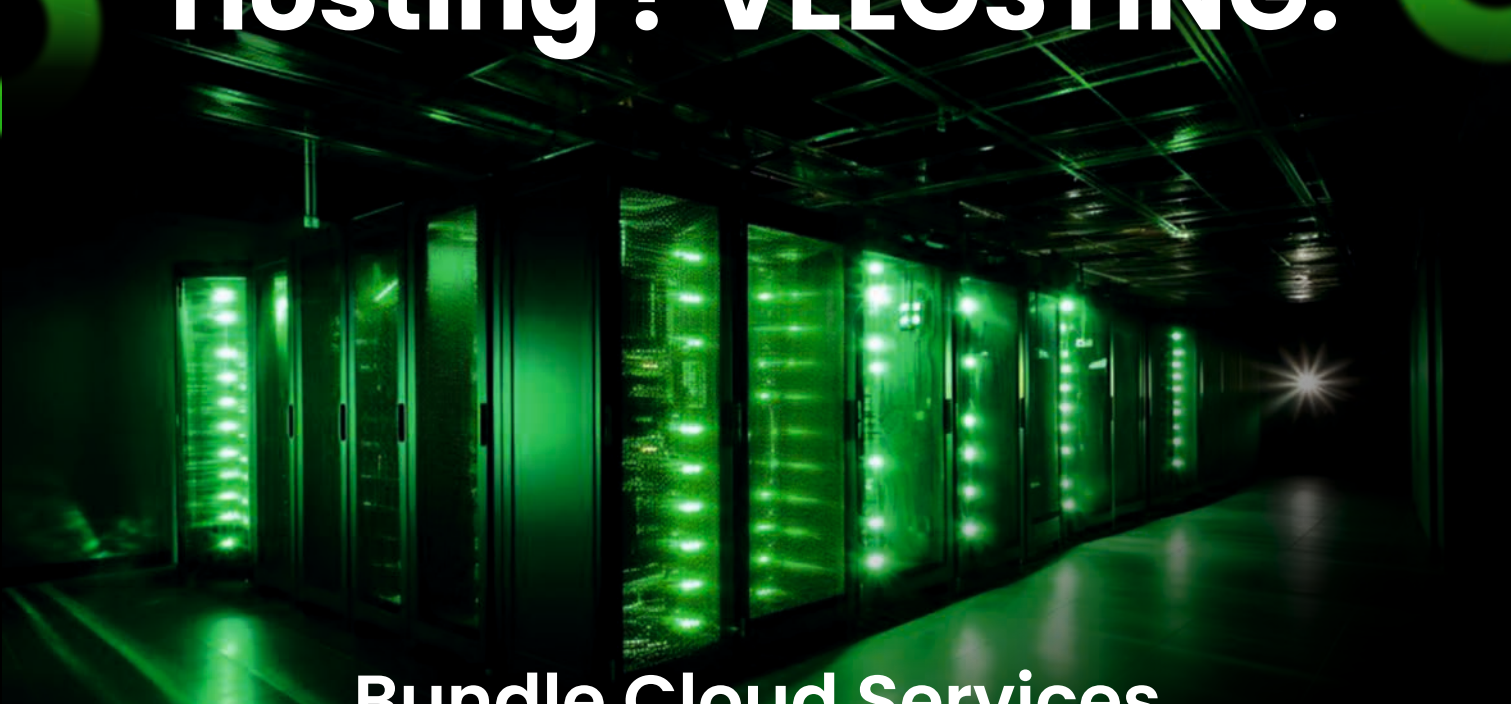
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GLOBAL ADOPTION TRENDS

HITS technology has gained traction globally, with major deployments in countries like the United States, India, and parts of Southeast Asia. In India, HITS has emerged as a vital solution for digitalizing cable networks and meeting government-mandated digitization deadlines.

CHALLENGES IN HITS IMPLEMENTATION

1. High Initial Costs

While cost-effective in the long run, the initial investment in satellite transponders and central headend facilities can be substantial.

2. Spectrum Allocation Issues

Dependence on limited satellite bandwidth poses a challenge for large-scale deployments.

3. Competition from OTT Platforms

The rise of Over-The-Top (OTT) services offers an alternative content delivery model, impacting HITS adoption.

4. Regulatory Hurdles

Compliance with country-specific broadcasting regulations can complicate operations.

FUTURE OF HITS TECHNOLOGY

1. Integration with IP Networks

Combining HITS with IP-based delivery can create hybrid models, offering the best of both worlds.

2. Enhanced Interactivity

Future HITS systems may incorporate interactive features, enabling Video-on-Demand (VoD) and targeted advertising.

3. Expansion into Emerging Markets

As developing countries expand their digital infrastructure, HITS can play a key role in providing affordable and scalable solutions.

4. Collaboration with OTT Platforms

HITS operators can partner with OTT platforms to offer bundled services, leveraging their extensive distribution networks.

CONCLUSION

HITS technology has redefined content distribution by offering a scalable, cost-effective, and efficient solution for broadcasters and cable operators. While challenges

वैश्विक रुझान को अपनाना

हिट्स तकनीक ने वैश्विकस्तर पर लोकप्रियता हासिल की है, संयुक्त राज्य अमेरिका, भारत और दक्षिण पूर्व एशिया के कुछ हिस्सों जैसे देशों में इसकी प्रमुख तैनाती की है। भारत में हिट्स केवल नेटवर्क को डिजिटल बनाने और सरकार द्वारा अनिवार्य डिजिटलीकरण की समयसीमा को पूरा करने के लिए एक महत्वपूर्ण समाधान के रूप में उभरा है।

हिट्स कार्यान्वयन में चुनौतियां

1. अत्यधिक प्रारंभिक लागतः लंबे समय में लागत प्रभावी होने के बावजूद, सैटेलाइट ट्रांसपोंडर व सेट्रल हेडएंड सुविधाओं में प्रारंभिक लागत बहुत अधिक हो सकता है।

2. स्पेक्ट्रम आवंटन मुद्देः सीमित सैटेलाइट बैंडविड्थ बड़े पैमाने पर तैनाती के लिए एक चुनौती बन जाती है।

3. ओटीटी प्लेटफॉर्म से प्रतिस्पर्धाः ओवर द टॉप सेवा का उदय दर्शकों को वैकल्पिक सामग्री वितरण मॉडल प्रदान करता है, जो हिट्स अपनाने को प्रभावित

करता है।

4. विनियामक बाधाएँः देश-विशिष्ट प्रसारण विनियमों का अनुपालन संचालन को जटिल बना सकता है।

हिट्स तकनीक का भविष्य

1. आईपी नेटवर्क के साथ एकीकरणः हिट्स को आईपी आधारित डिलीवरी के साथ मिलाने से हाइब्रिड मॉडल बनाया जा सकता है, जो कि दोनों दुनिया का सर्वश्रेष्ठ प्रदान करते हैं।

2. बढ़ी हुई इंटरैक्टिविटीः भविष्य के हिट्स सिस्टम में इंटरैक्टिव सुविधाएँ शामिल हो सकती हैं जिससे वीडियो-ऑन-डिमांड (वीओडी) और लक्षित विज्ञापन संभव हो सकते हैं।

3. उभरते बाजारों में विस्तारः जैसे-जैसे विकासशील देश अपने डिजिटल बुनियादी ढांचे का विस्तार कर रहे हैं, हिट्स क्राफायती और स्केलेबल समाधान प्रदान करने में महत्वपूर्ण भूमिका निभा सकता है।

4. ओटीटी प्लेटफॉर्मों के साथ सहयोगः हिट्स ऑपरेटर अपने व्यापक वितरण नेटवर्क का लाभ उठाते हुए बंडल सेवाएँ प्रदान करने के लिए ओटीटी प्लेटफॉर्मों के साथ साझेदारी कर सकते हैं।

निष्कर्ष

हिट्स तकनीक ने प्रसारकों और केबल ऑपरेटरों के लिए एक स्केलेबल, लागत प्रभावी और कुशल समाधान प्रदान करके सामग्री वितरण





remain, the integration of advanced technologies and strategic partnerships can unlock its full potential, ensuring its relevance in an increasingly digital and competitive landscape. As the demand for quality content grows, HITS stands poised to be a cornerstone of the next generation of broadcasting solutions.

KEY MILESTONES IN HITS ROLLOUT

First Licensed Operator: The first HITS license in India was granted to IndusInd Media and Communications Ltd (IMCL) in 2003, operating under the brand "NXT Digital."

Regulatory Push: The digitalization drive, mandated by the Cable Television Networks (Regulation) Act, 1995 (amended in 2012), catalyzed HITS adoption, providing a structured roadmap for LCOs to transition to digital.

Market Expansion: Subsequent players, including JAINHITS, entered the market, enhancing competition and driving innovation in service delivery.

ADVANTAGES OF HITS IN INDIA

Scalability: HITS enables LCOs to expand their service offerings without investing heavily in infrastructure.

Content Customization: The centralized headend allows for region-specific content delivery, catering to India's diverse linguistic and cultural landscape.

Cost-Effectiveness: Shared infrastructure reduces operational costs for LCOs, making digital services more affordable for end-users.

को फिर से परिभाषित किया है। जबकि चुनौतियां बनी हुई हैं, उन्नत तकनीकों और रणनीतिक साझेदारियों का एकीकरण इसकी पूरी क्षमता को अनलॉक कर सकता है, जिससे तेजी से डिजिटल और प्रतिस्पर्धी परिवृश्य में इसकी प्रासंगिता सुनिश्चित हो सकती है। जैसे-जैसे गुणवत्ता सामग्री की मांग बढ़ती है, हिट्स प्रसारण समाधानों की अगली पीढ़ी की आधारशिला बनने के लिए तैयार है।

हिट्स रोलआउट में प्रमुख मील का पत्थर

पहला लाइसेंस प्राप्त ऑपरेटर: भारत में पहला हिट्स लाइसेंस 2003 में इंडसइंड मीडिया एंड कम्युनिकेशन्स लिमिटेड (आईएमसीएल) को दिया गया था, जो 'एनएक्सटी' डिजिटल ब्रांड के तहत काम करता है।

विनियामक जोर: केवल टेलीविजन नेटवर्क (विनियमन) अधिनियम 1995 (2012 में संशोधित) द्वारा अनिवार्य डिजिटलीकरण अभियान ने हिट्स को अपनाने में उत्प्रेरक की भूमिका निभाई, जिससे एलसीओ को डिजिटल के लिए एक संरचित रोडमैप प्रदान किया गया।

बाजार विस्तार: जैनहिट्स सहित बाद के खिलाड़ियों के आने से प्रतिस्पर्धा बढ़ी, और सेवा विस्तार में नवाचार को बढ़ावा मिला।

भारत में हिट्स के लाभ

स्केलेबिलिटी: हिट्स एलसीओ बुनियादी ढांचे में भारी निवेश किया बिना अपनी सेवा पेशकशों का विस्तार करने में सक्षम बनाती है।

सामग्री अनुकूलन: केंद्रीकृत हेडएंड क्षेत्र विशिष्ट सामग्री वितरण की अनुमति देता है, जो भारत के विविध भाषाई और सांस्कृतिक परिवृश्य को पूरा करता है।

लागत प्रभावशीलता: साझा बुनियादी ढांचा एलसीओ के लिए संचालन लागत घटाता है, जिससे डिजिटल सेवाएं किफायती हो जाती हैं।

Digital Compliance: HITS ensures adherence to government-mandated digitalization standards, improving transparency in subscriber reporting and revenue sharing.

CHALLENGES IN HITS IMPLEMENTATION

Infrastructure Gaps: Limited satellite bandwidth and ground infrastructure in rural areas pose challenges to seamless rollout.

Regulatory Complexity: Navigating India's multi-tiered regulatory environment requires continuous engagement with MIB and TRAI.

Competition with DTH and OTT: HITS faces stiff competition from direct-to-home (DTH) operators and over-the-top (OTT) platforms, which have rapidly gained market share.

LCO Resistance: Many local operators remain hesitant to migrate due to concerns over control and revenue-sharing models.

THE CURRENT LANDSCAPE

Today, HITS plays a vital role in India's broadcasting ecosystem. Operators like NXTDigital have expanded their footprint, leveraging HITS to offer bundled services, including broadband and OTT integration.

HITS has also facilitated the entry of smaller regional players into the digital domain, leveling the playing field and ensuring that viewers in remote areas can access high-quality digital content.

FUTURE PROSPECTS

The future of HITS in India is intertwined with advancements in satellite technology, including high-throughput satellites (HTS) and 5G integration. The rollout of these technologies could enhance bandwidth efficiency and expand coverage, enabling HITS to compete more effectively with DTH and OTT services.

Policy support, such as easing regulatory norms and providing incentives for digital adoption, will be critical in sustaining the growth of HITS.

CONCLUSION

HITS technology has significantly contributed to India's digital broadcasting landscape, bridging gaps in accessibility and ensuring compliance with digital standards. While challenges persist, strategic investments in technology and policy alignment can position HITS as a cornerstone of India's broadcasting future, catering to a billion-plus audience with diverse needs. ■

डिजिटल अनुपालन: हिट्स सरकार द्वारा अनिवार्य डिजिटलीकरण मानकों का पालन सुनिश्चित करवाता है, जिससे सब्सक्राइबर रिपोर्टिंग और राजस्व साझाकरण में पारदर्शिता में सुधार होता है।

हिट्स कार्यान्वयन में चुनौतियां

बुनियादी ढांचे की कमी: ग्रामीण क्षेत्रों में सीमित सैटेलाइट बैंडविड्थ और ग्राउंड इंफ्रास्ट्रक्चर निर्वाध रोल आउट के लिए चुनौतियां पेश करते हैं।

विनियामक जटिलता: भारत के बहुस्तरीय विनियामक वातावरण को संचालित करने के लिए एमआईवी व ट्राई के साथ निरंतर जुड़ाव की आवश्यकता होती है।

डीटीएच और ओटीटी के साथ प्रतिस्पर्धा: हिट्स को डॉयरेक्ट-टू-होम (डीटीएच) ऑपरेटरों और ओवर-द-टॉप (ओटीटी) प्लेटफॉर्म के साथ कड़ी प्रतिस्पर्धा का सामना करना पड़ रहा है, जिन्होंने तेजी से बाजार में अपनी हिस्सेदारी हासिल की है।

एलसीओ प्रतिरोध: नियंत्रण और राजस्व साझाकरण मॉडल पर चिंताओं के कारण कई स्थानीय ऑपरेटर माइग्रेट करने में संकोच करते हैं।

वर्तमान परिदृश्य

आज, हिट्स भारत के प्रसारण पारिस्थितिकी तंत्र में एक महत्वपूर्ण भूमिका निभा रहा है। एनएक्सटी डिजिटल जैसे ऑपरेटरों ने ब्रॉडबैंड और ओटीटी एकीकरण सहित बंडल सेवाएँ प्रदान करने के लिए हिट्स का लाभ उठाते हुए अपने पदचिह्न का विस्तार किया है।

हिट्स ने डिजिटल क्षेत्र में छोटे क्षेत्रीय खिलाड़ियों के प्रवेश को भी सुगम बनाया है, जिससे खेल का मैदान समतल हुआ है और यह सुनिश्चित हुआ है कि दूरदराज के क्षेत्रों में दर्शक उच्च गुणवत्ता वाली डिजिटल सामग्री तक पहुंच सकते हैं।

भविष्य की संभावनाएँ

भारत में हिट्स का भविष्य सैटेलाइट तकनीकी में प्रगति के साथ जुड़ा हुआ है, जिसमें उच्च थ्रूपुट सैटेलाइट (एचटीएस) और 5जी एकीकरण शामिल हैं। इन तकनीकों के रोल आउट से बैंडविड्थ दक्षता में वृद्धि हो सकती है और कवरेज का विस्तार हो सकता है, जिससे हिट्स डीटीएच और ओटीटी सेवाओं के साथ अधिक प्रभावी ढंग से प्रतिस्पर्धा करने में सक्षम हो सकता है।

नीतिगत समर्थन, जैसेकि विनियामक मानदंडों को आसान बनाना और डिजिटल अपनाने के लिए प्रोत्साहन प्रदान करना, हिट्स के विकास को बनाये रखने में महत्वपूर्ण होगा।

निष्कर्ष

हिट्स तकनीक ने भारत के डिजिटल प्रसारण परिदृश्य में महत्वपूर्ण योगदान दिया है, पाहुँव में अंतर को पाटने और डिजिटल मानकों के अनुपालन को सुनिश्चित करने में। हालांकि चुनौतियाँ अभी बनी हुई हैं, लेकिन तकनीकी और नीति कर्चजस में रणनीतिक निवेश हिट्स को भारत के प्रसारण भविष्य की आधारशिला के रूप में स्थापित कर सकता है, जो विविध आवश्यकताओं वाले एक अरब से अधिक दर्शकों की सेवा कर सकेगा। ■

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VORTEX GROUP: PIONEERS IN INTERNET TECHNOLOGY AND DIGITAL TRANSFORMATION

Vortex Group of Companies are the leading crusaders of Internet Technology Evolution and Digital Transformation and hence they have always maintained the pole position in the race of Technology Innovation, Adaptation & Improvements aimed at Continuous Enhancement of Network Capacity & Quality, User Experience and Best Value for the End Customer in Internet Services Industry and its allied complimentary & supplementary Business Domains. The synergies driven by major Vortex Group Companies :Vortex Netsol Pvt. Ltd., Vortex Infocom Pvt. Ltd., Vortex Networks Pvt. Ltd., Vortex Infotech Pvt. Ltd. And Gazon India Communications Ltd. come together to power the group juggernaut for consistently keeping one of the Leadership Slots in the Internet Business across Western India. The group has redefined internet connectivity by delivering lightning-fast, reliable broadband services in key markets like Mumbai, Maharashtra, Goa and Gujarat. As part of its ambitious growth strategy, Vortex Group is actively expanding its footprint across India.

Beyond connectivity, the group has ventured into the



ADITYA K. CHILE
CEO, VORTEX

entertainment sector with the launch of Vortex Play, an OTT and IPTV platform that offers immersive viewing experiences with 25+ Major OTT Apps and 350+ Live TV Channels. This new addition

exemplifies Vortex's commitment to integrating cutting-edge technology with customer-centric services.

With a focus on innovation, seamless service, and robust infrastructure, the Vortex Group of Companies continues to shape the future of digital connectivity and entertainment in India, paving the way for smarter living and business operations.

Aditya K. Chile, CEO shares his thoughts and perspectives in an exclusive interview featured in this edition.

What was the inspiration behind starting Vortex, and how has its vision evolved over time?

Vortex Group started with a humble beginning of a Service Centric, Customer Focused CATV Service Operation in Mumbai & Suburbs but now in the hindsight, we can say we are one of the first generation enterprises of the industry, who not only witnessed and grew through the real growth phase of the CATV Business but also pre-empted the possibilities, promises & challenges of Initiation, Market Potential, Market Acceptance, Evolution & Imminent Growth of the Internet Business in India. Our Founding Entrepreneurs and the 2nd Generation Visionary Leadership (Mr.

Vineet Nishar / Lalubhai) saw this Business Opportunity & Challenge as an inspiration that continuously fuelled the rapid upward journey and the present form & shape of the formidable Internet Business Leader called The Vortex Group.

How does Vortex differentiate itself in the competitive landscape of broadband services?

We always keep in our constant view & practice The Three Vortex Values those are the principal drivers of our business:

- 1) Continuously explore, innovate, customize, test & integrate the Newer Technology Solutions / Features / Platforms

aimed at uplifting the Customer Experience and Convenience,

- 2) Always think from a Customer's Point of View as if Every Customer is The King and The Customer is Always Right
- 3) Every Action has to be supported by Quality First - Speed Always.

This unwavering focus on New Technology, Customer Centricity, Quality & Urgency keeps us differentiated from our competition.

What are some of the most innovative technologies or solutions that Vortex has recently developed?

We have done many innovations during our journey. The innovation may not always mean discovering a completely New Technology Solution, but more frequently it is about improving the

currently prevalent practices to bring about some breakthrough for improving Customer Experience, Customer Convenience, Cost of service to Customer etc. One specific example is our robust Intercity Backbone deployed in Western India, which enables instant / off the shelf upgrades in traffic capacity in multiples of 100 Gigs virtually up-to unlimited amounts of traffic.

Other very important example of our Customer Centric Innovations is our recent endeavour in the field of internet equipment through our Group Company Vortex Infotech Pvt. Ltd.



Capturing this long due and pressing need of the Internet Industry of Good Quality Equipment Availability at Reasonable Prices through a Made In India Source, we have launched our High Performing Wi-Fi Router Range that comes with all the Latest Features and delivers a scintillating performance on all the parameters, most importantly the range is made available at highly competitive/affordable pricing.

As a leader, how do you foster innovation and collaboration within your team?

As already touched upon during my response to your previous question, Team Vortex always believes in the fact that there is always some scope of Innovation / Betterment / Improvement in our Technology, Processes or Practices and a Customer Centric View of all these specifically

and overall business environment generally, leads us to our Day-to-Day Innovations those help us to improve. Our Organizational Values and their alignment at every level of our organization ensure Sensitive & Careful Observation, Robust Analysis & Adaptation and Excellent Teamwork & Agile Collaboration within the Teams leading almost all our Innovations to Superior Business Results & Enhanced Value for our End Customer.

What are the main challenges in deploying and maintaining FTTX infrastructure, and how does Vortex overcome them?

While there are number of challenges like keeping our pace with newest technology upgrades those, we keep

winning convincingly the major challenges still remain from the conventional ever existing issues of Right-of-Way and Govt. Permissions to Lay and Maintain the FTTX Infrastructure. Vortex as an ISP deals with these challenges through our keen approach of an on-going collaboration with various entities within Internet Industry and Government Bodies.

How does Vortex cater to the specific needs of enterprise clients through its ILL offerings?

Vortex Group aims to be at the forefront of Internet Solutions & Services for complete spectrum of Business Enterprise; Traditional Commercial Businesses, New Age MSMEs and Large Corporate Houses by understanding and capturing their specific needs to develop Tailor-made / Custom-fit Solutions to meet every

INTERVIEW

requirement. We also ensure that these solutions are solidly supported by our Seamless Service Support, Robust Network Redundancy by means of unbeatable Ring Network Topology and World Class Security like DDOS Protection etc.

Multi-play services are becoming increasingly popular. How does Vortex deliver a seamless and integrated experience for customers?

From Plain Old Internet to Added Entertainment to Premises

Telepresence Solutions, OTT & IPTV Entertainment, IoT Based Home Automation and Cloud Based Storage / Computing etc., you name the service and Vortex will try and deliver it.

What are the latest trends in fiber broadband and FTTX that Vortex is leveraging to stay ahead in the industry?

As already shared Vortex is focusing on developing a Future-Proof High Capacity Scalable Intercity Backbone of which a major part is

of Small CATV Operators by way of a Simplified Internet Services Licensing Regime for them, so as to make them Legally Compliant and hence increase Internet Penetration to higher levels and

- 02) Resolving the Right-Of –Way and Permission Issues by adding some arrangement in ISP Licensing Framework making the ISPs eligible for Paid ROW Permissions from various Government Bodies.



Security Solutions to IoT Based Conveniences like Home Automation to Cloud Based Storage & Computing Capabilities and so on, our Customer Needs have evolved continuously and Vortex has always kept pace with these needs by providing solutions on all of these Multi-Play Facets in a Customer's Household / Work Premises. Our motto of All Solutions in Every Household / Work Premises is being served by our Services like High Speed Broadband, High Capacity Secured Leased Lines, CCTV and

already done in the western part of the country, yet we aim to and are working tirelessly on achieving the Self Reliance and 100% Availability of a World Class High Capacity Scalable Inter City Backbone.

How do regulatory and infrastructure challenges affect Vortex's ability to expand its services?

These challenges will be the same for every player in the internet industry, major ones being;

- 01) The Long Pending Enablement

What is Vortex's vision for the future of fiber broadband and FTTX in India and globally?

We at Vortex firmly believe that Internet on FTTX is here to stay, despite all the newer solutions like the Satellite Internet Etc., No Other Technology can match the Capacity, Scalability, Consistency and Dependability of FTTX. We can already see that the Satellite Broadband as of now is working on speeds of Mbs wherein the FTTX can already deliver TBs. ■

INDIA'S CABLE INDUSTRY AMID SHIFTING MEDIA LANDSCAPES AND POLICY OVERHAULS

The cable industry faced a pivotal juncture in 2024 as its subscriber base nearly halved, with the decline projected to continue. The transition to digital networks is accelerating, signaling a significant transformation within the broadcasting landscape.

BOLD NATIONAL BROADCAST POLICY

In April 2024, the Telecom Regulatory Authority of India (TRAI) released a Consultation Paper outlining recommendations for a new National Broadcast Policy (NBP). The goal is to establish a business-friendly regulatory framework to foster growth across the media and entertainment sectors. This policy roadmap seeks to attract investments, ensure policy and regulatory stability, and expand the consumer base.

KEY OBJECTIVES OF THE POLICY

- ◆ Position India as a global media and entertainment hub.

मीडिया परिदृश्य और नीतिगत बदलावों के बीच भारत का केबल उद्योग

केबल उद्योग को बीते वर्ष 2024 में एक महत्वपूर्ण मोड़ का सामना करना पड़ा, क्योंकि इसके ग्राहक आधार में लगभग आधे कमी आ गयी है, और यह गिरावट जारी रहने का अनुमान है। डिजिटल नेटवर्क में तेजी से बदलाव हो रहा है, जो प्रसारण परिदृश्य में एक महत्वपूर्ण परिवर्तन का संकेत देता है।

साहसिक राष्ट्रीय प्रसारण नीति

अप्रैल 2024 में, भारतीय दूरसंचार विनियामक प्राधिकरण (ट्राई) ने एक परामर्शपत्र जारी किया, जिसमें नयी राष्ट्रीय प्रसारण नीति (एनपीबी) के लिए अनुशंसायें बतायी गयी हैं। इसका लक्ष्य मीडिया और मनोरंजन क्षेत्रों में विकास को बढ़ावा देने के लिए एक व्यवसाय अनुकूल विनियामक ढांचा स्थापित करना है। यह नीति रोडमैप निवेश आकर्षित करने, नीति और विनियामक स्थिरता सुनिश्चित करने और उपभोक्ता आधार का विस्तार करने का प्रयास करता है।

नीति के मुख्य उद्देश्य

- ◆ भारत को वैश्विक मीडिया और मनोरंजन केंद्र के रूप में स्थापित करना



- ◆ Adopt a technology-neutral approach aligned with international best practices.
- ◆ Facilitate job creation, skill development, and support start-ups.
- ◆ Promote local content and strengthen public service broadcasting.
- ◆ Safeguard content against piracy.

INDIA'S BROADCASTING LANDSCAPE

- ◆ India's broadcasting ecosystem includes 326 broadcasters, 887 registered MSOs, one HITS operator, four pay DTH operators, and one free DTH platform, DD Free Dish (Prasar Bharati).
- ◆ Active subscribers include 63.52 million DTH users, approximately 62 million cable TV users, 2.5 million HITS subscribers, and 45 million DD Free Dish viewers.
- ◆ As of 2021, India had 302.42 million households, of which 182 million have access to television, leaving over 100 million "TV Dark" homes.

LEGACY DISTRIBUTION

Despite the vast potential to penetrate TV Dark homes, key hurdles persist:

- 1. Free Dish Dominance:** DD Free Dish has already captured 45 million viewers, primarily in rural areas.
- 2. Cost Disparities:** TV channels on broadcaster apps are significantly cheaper than on cable/DTH platforms, driving mobile TV consumption.
- 3. OTT Disruption:** JioCinema's Rs. 29/month premium plan, launched in April 2024, democratizes high-quality entertainment, providing an affordable alternative to cable and DTH.

To stay relevant, the cable and DTH sectors must pivot to high-speed broadband delivery, necessitating heavy investments in fiber infrastructure or partnerships with telecom companies.



- ◆ अंतरराष्ट्रीय सर्वोत्तम प्रथाओं के अनुरूप प्रौद्योगिकी तटस्थ दृष्टिकोण अपनाना
- ◆ रोजगार कौशल विकास और स्टार्टअप को सहायता प्रदान करना
- ◆ स्थानीय सामग्री को बढ़ावा देना और सार्वजनिक सेवा प्रसारण को मजबूत करना।
- ◆ सामग्री को पायरेसी बचाना।

भारत का प्रसारण परिदृश्य

- ◆ भारत के प्रसारण परिस्थितिकी तंत्र में 326 प्रसारक, 887 पंजीकृत एमएसओ, एक हिट्स, 4 पे डीटीएच ऑपरेटर व एक मुफ्त डीटीएच प्लेटफॉर्म, डीडी फ्री डिश (प्रसार भारती) शामिल है।
- ◆ सक्रिय ग्राहकों में 63.52 मिलियन डीटीएच उपयोगकर्ता, लगभग 62 मिलियन केवल टीवी उपयोगकर्ता, 2.5 मिलियन हिट्स ग्राहक और 45 मिलियन डीडी फ्री डिश दर्शक शामिल हैं।
- ◆ 2021 तक भारत में 302.42 मिलियन घर थे, जिसमें से 182 मिलियन के पास टीवी की सुविधा है, जिससे 100 मिलियन से अधिक 'टीवी डार्क' घर रह गये हैं।

विरासत वितरण

टीवी डार्क होम्स में प्रवेश करने की अपार क्षमता के बावजूद, प्रमुख बाधाएँ बनी हुई हैं:

- 1. फ्री डिश का प्रभुत्व:** डीडी फ्री डिश ने पहले ही 45 मिलियन दर्शकों को आकर्षित किया है, मुख्य रूप से ग्रामीण क्षेत्रों में।
- 2. लागत असमानताएँ:** मौजूदा समय में प्रसारण ऐप पर टेलीविजन चैनल, केवल टेलीविजन/ डीटीएच प्लेटफॉर्म की तुलना में काफी सस्ते हैं, जिससे मोबाइल टेलीविजन की खपत

सभी वर्ग के दर्शकों में बढ़ रही है।

- 3. ओटीटी व्यवधान:** अप्रैल 2024 में लॉन्च किया गया जियो सिनेमा का 29 रुपये का प्रीमियम प्लान, उच्च गुणवत्ता वाले मनोरंजन को लोकतांत्रिक बनाता है, केवल व डीटीएच का एक किफायती विकल्प प्रदान करता है।

प्रासंगिक बने रहने के लिए, केवल व डीटीएच को हाई स्पीड ब्रॉडबैंड डिलीवरी पर ध्यान देना होगा, जिसके लिए फाइबर इंफ्रास्ट्रक्चर में भारी निवेश या दूरसंचार कंपनियों के साथ साझेदारी की आवश्यकता होगी।

MEDIA AND ENTERTAINMENT SECTOR OUTLOOK

The Indian M&E sector is expected to grow at a CAGR of 10%, adding INR 763 billion by 2026 to reach INR 3.1 trillion. Key contributors include:

- ◆ New Media: Driving 61% of growth.
- ◆ Television: Contributing INR 765 billion by 2026, with a modest CAGR of 3.2%.
- ◆ Connected TVs: Projected to reach 100 million by 2030 as wired broadband and 5G scale up.

By 2030, active screens are expected to touch 1 billion, comprising 240 million large screens (TVs) and 760 million small screens (mobiles, tablets).

Strategic Recommendations

- ◆ Develop cross-platform programming to integrate Pay TV, Free TV, and Connected TV.
- ◆ Bundle FAST (Free Ad-Supported TV) products across devices and platforms.
- ◆ Consolidate regional OTT players and optimize content costs to manage churn.

THE ROLE OF TRAI IN SHAPING THE FUTURE

TRAI's recommendations aim to:

- 1. Establish a Consistent Regulatory Framework:** Ensure fair competition, consumer protection, and content integrity.
- 2. Encourage Innovation:** Leverage emerging technologies like VR and AR to position India as a global content hub.
- 3. Strengthen Public Broadcasting:** Provide Prasar Bharati with resources to enhance its OTT platforms and broadcasting infrastructure.
- 4. Expand DTT Services:** Privatising Digital Terrestrial Television (DTT) could cover TV Dark homes and bridge the digital divide.

SATELLITE BROADBAND: THE NEXT FRONTIER

The satellite broadband race is heating up, with players like Jio SpaceFibre, Airtel OneWeb, SpaceX Starlink, and Amazon Kuiper vying for market share. While satellite

मीडिया और मनोरंजन क्षेत्र का दृष्टिकोण

भारतीय मीडिया और मनोरंजन क्षेत्र के 10% सीएजीआर से बढ़ने की उम्मीद है, जो 2026 तक 763 बिलियन रुपये जोड़कर 3.1 ट्रिलियन रुपये तक पहुंच जायेगा। मुख्य योगदानकर्ताओं में शामिल हैं:

- ◆ **नया मीडिया:** 61% की दर से बढ़ रहा है
- ◆ **टेलीविजन:** 2026 तक 3.2% की मामूली सीएजीआर के साथ 765 बिलियन रुपये का योगदान देगा।
- ◆ **कनेक्टेड टीवी:** वायर्ड ब्रॉडबैंड और 5जी के विस्तार के कारण 2030 तक 100 मिलियन तक पहुंचने का अनुमान है।

2030 तक सक्रिय स्क्रीन की संख्या 1 बिलियन तक पहुंचने की उम्मीद है, जिसमें 240 मिलियन बड़ी स्क्रीन (टीवी) और 760 मिलियन छोटी स्क्रीन (मोबाइल) शामिल हैं।

रणनीतिक अनुसंधान

◆ पे टीवी, फ्री टीवी और कनेक्टेड टीवी को एकीकृत करने के लिए क्रॉस प्लेटफॉर्म प्रोग्रामिंग विकसित करें।

◆ उपकरण और प्लेटफॉर्म पर एफएएसटी (फ्री एड-सपोर्टेड टीवी) उत्पादों को बंडल करें।

◆ क्षेत्रीय ओटीटी खिलाड़ियों को एकजुट करें और चर्च को प्रबंधित करने के लिए सामग्री लागतों को अनुकूलित करें।



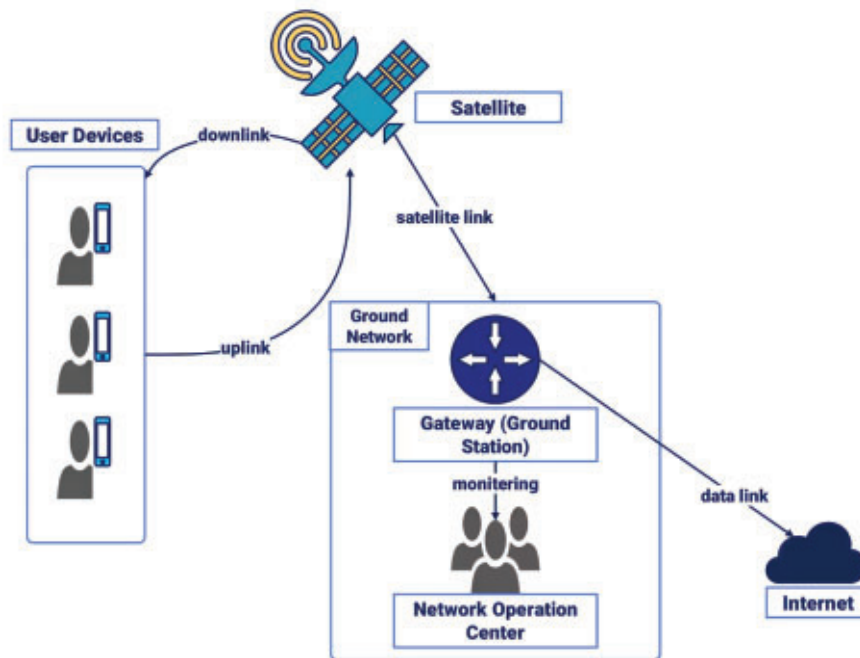
भविष्य को आकार देने में ट्राई की भूमिका

ट्राई की सिफारिशों का लक्ष्य है:

- 1. एक सुसंगत विनियामक ढांचा स्थापित करना:** निष्पक्ष प्रतिस्पर्धा, उपभोक्ता संरक्षण व सामग्री अखंडता सुनिश्चित करना।
- 2. नवाचार को प्रोत्साहित करें:** भारत को वैश्विक सामग्री केंद्र के रूप में स्थापित करने के लिए वीआर और एआर जैसी उभरती हुई तकनीकों का लाभ उठाएँ।
- 3. सार्वजनिक प्रसारण को मजबूत करें:** प्रसार भारती को अपने ओटीटी प्लेटफॉर्म और प्रसारण बुनियादी ढांचे को बढ़ाने के लिए संसाधन प्रदान करें।
- 4. डीटीटी सेवाओं का विस्तार:** डिजिटल टेरिस्ट्रियल टेलीविजन (डीटीटी) का निजीकरण टीवी डार्क होम को कवर सकता है और डिजिटल उपकरणों को पाठ सकता है।

सैटेलाइट ब्रॉडबैंड: अगला मोर्चा

सैटेलाइट ब्रॉडबैंड की दौड़ तेज हो रही है, जिसमें जियो स्पेसफाइबर, एयरटेल वेब, स्पेसएक्स स्टारलिनक और अमेजन कुइपर जैसे खिलाड़ी बाजार में हिस्सेदारी के लिए होड़ कर रहे हैं। सैटेलाइट ब्रॉडबैंड दूरदराज



broadband offers high-speed internet in remote areas, its steep pricing (Rs. 5,000-Rs.10,000/month) makes it less competitive against cable internet for now.

Key Developments:

- ◆ Reliance Jio is integrating satellite broadband with telecom services.
- ◆ Airtel OneWeb targets B2B services using a LEO satellite constellation.
- ◆ SpaceX Starlink awaits regulatory clearance for Indian operations.
- ◆ Amazon's Project Kuiper plans to deploy 3,236 satellites globally, including India.

CONCLUSION

The Indian broadcasting industry is at a crossroads, grappling with rapid technological advancements and shifting consumer preferences. TRAI's push for a data-driven policy framework, robust regulatory mechanisms, and technological neutrality is crucial for sustainable growth.

While OTT platforms and satellite broadband dominate headlines, legacy distribution must adapt swiftly to remain competitive. The future hinges on collaborative efforts between stakeholders to build a thriving, inclusive ecosystem that caters to diverse consumer needs while fostering innovation and investment. ■

में हाई स्पीड इंटरनेट प्रदान करता है, इसकी ऊंची कीमत (5-10 हजार रुपये प्रति माह) केवल इंटरनेट के मुकाबले कम प्रतिस्पर्धी बनाती है।

महत्वपूर्ण विकास

- ◆ रिलायंस जियो सैटेलाइट ब्रॉडबैंड को दूरसंचार सेवाओं के साथ एकीकृत कर रहा है।
- ◆ एयरटेल वनवेब लियो सैटेलाइट समूह का उपयोग करके बी2बी सेवाओं को लक्षित करता है।
- ◆ स्पेसएक्स स्टारलिनक भारतीय परिचालन के लिए विनियामक मंजूरी का इंतजार कर रहा है।
- ◆ अमेजन के प्रोजेक्ट कुइपर की योजना भारत सहित वैश्विकस्तर पर 3236 सैटेलाइटों को तैनात करने की है।

निष्कर्ष

भारतीय प्रसारण उद्योग एक चौराहे पर खड़ा है जो तेजी से हो रही तकनीकी प्रगति और बदलती उपभोक्ता प्राथमिकताओं से जुड़ा रहा है। डेटा संचालित नीति ढांचे, मजबूत विनियामक तंत्र और तकनीकी तटस्थता के लिए ट्राई का जोर सतत विकास के लिए महत्वपूर्ण है।

हालांकि ओटीटी प्लेटफॉर्म और सैटेलाइट ब्रॉडबैंड सुविधियों में छाये हैं, प्रतिस्पर्धी बने रहने के लिए विरासत वितरण को तेजी से अनुकूलित करना होगा। भविष्य हितधारकों के बीच सहयोगात्मक प्रयासों पर निर्भर करता है ताकि एक संपन्न, समावेशी पारिस्थितिकी तंत्र का निर्माण किया जा सके, जो नवाचार और निवेश को बढ़ावा देते हुए विविध उपभोक्ता जरूरतों को पूरा करता हो। ■

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UPDATED LATEST AUDITORS REPORT

This panel of auditors will carry out audit of digital addressable systems (DAS)

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INDIAN TELECOM AND BROADBAND MARKET ANALYSIS - A SNEAK PEEK

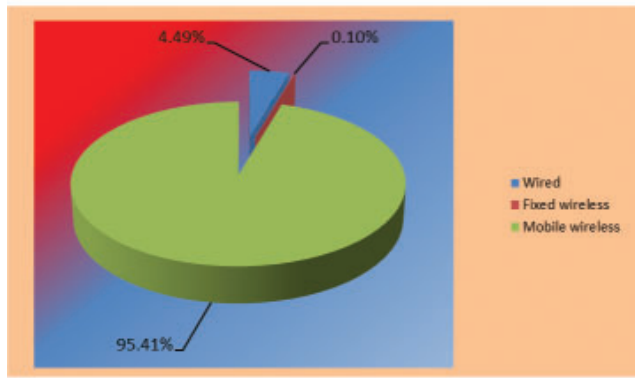
TRAI has released the 'Indian Telecom Services Performance Indicator Report' for the Quarter ending 30th September, 2024. This Report provides a broad perspective of the Telecom Services in India and presents the key parameters and growth trends of the Telecom Services as well as Cable TV, DTH & Radio Broadcasting services in India for the period covering 1st July, 2024 to 30th September, 2024 compiled mainly on the basis of information furnished by the Service Providers.

THE INDIAN TELECOM SERVICES PERFORMANCE INDICATORS JULY-SEPTEMBER, 2024

Executive Summary

- Total number of Internet subscribers increased from 969.60 million at the end of Jun-24 to 971.50 million at the end of Sep-24, registering a quarterly rate of growth 0.20%. Out of 971.50 million internet subscribers, number of Wired Internet subscribers are 43.64 million and number of Wireless Internet subscribers are 927.86 million.
- The Internet subscriber base is comprised of Broadband Internet subscriber base of 944.39 million and Narrowband Internet subscriber base of 27.11 million.
- The broadband Internet subscriber base increased by 0.39% from 940.75 million at the end of Jun-24 to 944.39 million at the end of Sep-24. The narrowband Internet subscriber base decreased from 28.85 million at the end of Jun-24 to 27.11 million at the end of Sep-24.

Composition of internet subscription



भारतीय दूरसंचार और ब्रॉडबैंड बाजार विश्लेषण - एक झलक

ट्राई ने 30 सितंबर 2024 को समाप्त तिमाही के लिए 'भारतीय दूरसंचार सेवा प्रदर्शन संकेतक रिपोर्ट' जारी की है। यह रिपोर्ट भारत में दूरसंचार सेवाओं का एक व्यापक परिप्रेक्ष्य प्रदान करती है और 1 जुलाई 2024 से 30 सितंबर 2024 तक की अवधि के लिए भारत में दूरसंचार सेवाओं के साथ-साथ केवल टीवी, डीटीएच और रेडियो प्रसारण सेवाओं के प्रमुख मापदंडों और विकास के रुझान प्रस्तुत करती है जिसे मुख्य रूप से सेवा प्रदाताओं द्वारा दी गयी जानकारी के आधार पर संकलित किया गया है।

'भारतीय दूरसंचार सेवा प्रदर्शन संकेतक'

जुलाई-सितंबर 2024

कार्यकारी सारांश

- इंटरनेट उपभोक्ताओं की कुल संख्या जून 24 के अंत में 969.60 मिलियन से बढ़कर सितंबर 24 के अंत में 971.50 मिलियन हो गयी, जो तिमाही आधार पर 0.20% की वृद्धिदर है। 971.50 मिलियन इंटरनेट उपभोक्ताओं में से, वायर्ड इंटरनेट उपभोक्ताओं की संख्या 43.64 मिलियन और वायररलेस उपभोक्ताओं की संख्या 927.86 मिलियन है।
- इंटरनेट ग्राहक आधार में 944.39 मिलियन ब्रॉडबैंड इंटरनेट ग्राहक आधार और 27.11 मिलियन नैरोबैंड इंटरनेट ग्राहक आधार शामिल है।
- ब्रॉडबैंड इंटरनेट सब्सक्राइवर बेस जून 24 के अंत में 940.75 मिलियन से 0.39% बढ़कर सितंबर 24 के अंत में 944.39 मिलियन हो गया। नैरोबैंड इंटरनेट सब्सक्राइवर बेस जून 24 के अंत में 28.85 मिलियन से घटकर सितंबर 24 के अंत में 27.11 मिलियन हो गया।

MARKET REPORT

The following parameters have shown improvement, as compared to the previous quarter, in QoS by Cellular Mobile service providers: -

- SDCCH/ Paging Channel Congestion/ RRC Congestion (%age) $\leq 1\%$
- TCH, RAB and E-RAB Congestion (%age) $\leq 2\%$
- Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints - 100% within 1 week of resolution of complaint

The following parameters have shown deterioration, as compared to the previous quarter, in QoS by Cellular Mobile service providers: -

- Network QoS DCR Spatial Distribution Measure [Network_QSD(90,90)] $\leq 2\%$
- Accessibility of call centre/customer care $\Rightarrow 95\%$
- Percentage of calls answered by the operators (voice to voice) within ninety seconds $\Rightarrow 95\%$

◆ A total of approximately 912 private satellite TV channels have been permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/ downlinking only/both uplinking & downlinking.

◆ As per the reporting done by broadcasters in pursuance of the Tariff Order dated 3rd March 2017, as amended, out of 902 permitted satellite TV channels which are available for downlinking in India, there are 362 satellite pay TV channels as on 30th September, 2024. Out of 362 pay TV channels, 258 are SD satellite pay TV channels and 104 are HD satellite pay TV channels.

◆ During the QE 30th September 2024, there were 4 pay DTH service providers in the country.

◆ Pay DTH has attained total active subscriber base of around 59.91 million. This is in addition to the subscribers of the DD Free Dish (free DTH services of Doordarshan). The total active subscriber base has decreased from 62.17 million in June, 2024 to 59.91 million in September 2024.

◆ Apart from the radio channels operated by All India Radio – the public broadcaster, as per the data reported by FM Radio operators to TRAI, as on 30th September 2024, there are 388 operational private FM Radio channels in 113 cities operated by 36 private FM Radio operators. ■



सेलुलर मोबाइल सेवा प्रदाताओं द्वारा क्यूओएस में पिछली तिमाही की तुलना में निम्नलिखित मापदंडों में सुधार हुआ है:

- एसडीसीसीएच/पेजिंग चैनल कंजेशन (%age) $\leq 1\%$
- टीसीएच, आरएवी और ई-आरएवी कंजेशन (%age) $\leq 2\%$
- शिकायतों की समाधान की तिथि से ग्राहक के खाते में क्रेडिट/छूट/समायोजन लागू करने की अवधि-शिकायत के समाधान के 1 सप्ताह के भीतर **100%**

सेलुलर मोबाइल सेवा प्रदाताओं द्वारा क्यूओएस में पिछली तिमाही की तुलना में निम्नलिखित मानदंडों में गिरावट देखी गयी है:

- नेटवर्क क्यूओएस डीसीआर स्थानिक वितरण माप (नेटवर्क_QSD(90,90)) $\leq 2\%$
- कॉल सेंटर/ग्राहक सेवा की पहुंच $\Rightarrow 95\%$
- ऑपरेटरों द्वारा **90** सेकेंड के भीतर उत्तर दिये गये कॉल का प्रतिशत (वॉयस टू वॉयस) $\Rightarrow 95\%$

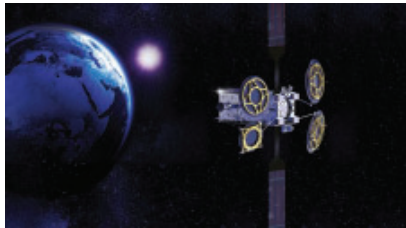
◆ सूचना व प्रसारण मंत्रालय (एमआईवी) ने कुल लगभग **912** निजी सैटेलाइट टीवी चैनलों को केवल अपलिक/केवल डाउनलिक/अपलिकिंग और डाउनलिकिंग दोनों के लिए अनुमति दी है।

◆ संशोधित टैरिफ आदेश दिनांक **3 मार्च 2017** के अनुसरण में प्रसारकों द्वारा की गयी रिपोर्टिंग के अनुसार भारत में डाउनलिकिंग के लिए उपलब्ध **902** अनुमत सैटेलाइट टीवी चैनलों में से, **30** सितंबर **2024** तक देश में **362** सैटेलाइट पे टीवी चैनल उपलब्ध हैं। **362** पे टेलीविजन चैनलों में से **258** एसडी सैटेलाइट पे टेलीविजन चैनल और **104** एचडी सैटेलाइट पे टीवी चैनल हैं।

◆ **30** सितंबर **2024** की तिमाही के दौरान देश में **4** पे टीवी प्रदाता थे।

◆ पे डीटीएच ने लगभग **59.91** मिलियन का कुल सक्रिय ग्राहक आधार प्राप्त कर लिया है। यह डीडी फ्रीडिश (दूरदर्शन की मुफ्त डीटीएच सेवायें) के ग्राहकों के अतिरिक्त है। कुल सक्रिय ग्राहक आधार जून **2024** में **62.17** मिलियन से घटकर सितंबर **2024** में **59.91** मिलियन हो गया है।

◆ एफएम रेडियो ऑपरेटरों द्वारा ट्राई को बताये गये आंकड़े के अनुसार सार्वजनिक प्रसारक ऑल इंडिया रेडियो द्वारा संचालित रेडियो चैनलों के अलावा **30** सितंबर **2024** तक **36** निजी एफएम रेडियो ऑपरेटरों द्वारा **113** शहरों में **388** परिचालन निजी एफएम रेडियो चैनल संचालित हैं। ■



ASTRA 1P OPERATIONAL AT 19.2° EAST

Satellite operator SES has announced that Astra 1P has completed rigorous testing and is now fully operational at its orbital position of 19.2° East. Following successful in-orbit raising and performance evaluations, Astra 1P will begin serving public and commercial broadcasters, sports organizations, and content owners.

The satellite, equipped with 80 transponders, can support hundreds of HD TV channels for key European markets. “With Astra 1P now fully operational, we are setting a new standard for satellite broadcasting in Europe,” said SES CTO Milton Torres. He emphasized the satellite’s role in delivering premium content to 118 million TV households, particularly for sports and event coverage.

Built by Thales Alenia Space, Astra 1P was launched on June 20, 2024, via SpaceX’s Falcon 9 rocket from Cape Canaveral, Florida. The next addition to the Astra fleet, Astra 1Q, is scheduled for launch in 2027, with plans for both satellites to replace existing infrastructure at 19.2° East by 2028.

VODAFONE ITALIA ACQUISITION

Swisscom finalized its acquisition of Vodafone Italia on December 31, 2024, creating a converged telecom player under the new corporate brand Fastweb + Vodafone. Combining Fastweb’s fixed infrastructure with Vodafone Italia’s mobile network will unlock synergies of approximately €600 million annually and strengthen investments in Italy’s telecom market.



“This merger marks a new era in Italian telecommunications,” said Walter Renna, CEO of Fastweb + Vodafone. Swisscom CEO Christoph Aeschlimann added, “The improved positioning in Italy creates long-term value for all stakeholders while maintaining our commitment to the Swiss market.”

Integration costs of up to €200 million will impact Swisscom’s 2024 financials, with revised EBITDA guidance set at CHF 4.3-4.4 billion. Existing commercial brands—Fastweb, Vodafone, and ho.—will continue for now as the integration process begins.

DAZN COMPLETES FOXTEL ACQUISITION

Sports streaming service DAZN has announced the acquisition of Australian pay-TV leader Foxtel for \$2.2 billion from News Corp and Telstra. The deal, subject to regulatory approval, will expand



DAZN’s operations in Australia, increasing its pro-forma revenues to \$6 billion.

News Corp and Telstra will retain minority stakes of 6% and 3%, respectively, with News Corp gaining a seat on DAZN’s board. “Australians watch more sport than any other country, making this deal a pivotal step in our strategy to become the global home of sport,” said DAZN CEO Shay Segev.

Foxtel CEO Patrick Delany highlighted DAZN’s expertise in sports media, stating the acquisition aligns with Foxtel’s evolution into a digital and streaming leader. The deal represents DAZN’s entry into the traditional pay-TV market, a strategic shift that may influence legacy operators globally.

END OF PAY-TV ON SWEDEN’S TERRESTRIAL PLATFORM

Sweden’s digital terrestrial platform has ceased offering pay-TV services as of January 2, 2025. While free-to-air channels such as SVT’s four stations, TV4, and TV Finland remain unaffected, Tele2 AB decided not to renew its broadcast agreement with Teracom AB.

At its peak in 2012, Boxer, now owned by Tele2, had 1.2 million subscribers. However, Boxer has transitioned customers to Tele2’s internet-connected TV-Hub Mini device over the past year, marking the end of its pay-TV services via terrestrial networks. ■



NETWORK18 REPORTS 49% GROWTH

Network18 posted an impressive 49.4% growth in operating revenue for FY24, reaching Rs. 9,297 crore, despite challenges in its entertainment segment caused by reduced programming hours and a soft advertising environment.

The company's annual report highlighted the dichotomy between its struggling entertainment sector and the robust performance of its news and digital platforms. While advertising revenue for the entertainment segment remained flat due to scaled-back original programming, the news segment saw strong growth, bolstered by increased ad spending in the lead-up to general elections.

"In the TV segment, the news business delivered strong growth in advertising revenue, powered by the strong position of the channels across markets. However, the entertainment segment saw flat advertising revenue as original



programming hours were reduced," the report stated.

The digital segment, led by JioCinema, was a standout performer. The inaugural season of the Indian Premier League (IPL) on JioCinema delivered record operational KPIs and substantial revenue, showcasing the potential of digital-first platforms.



Consolidated revenue from advertising, subscription, and program syndication reached Rs. 8,076.6 crore in FY24, a 45.8% increase from Rs. 5,537 crore in FY23. However, operating expenses surged by 63.7%, reaching Rs. 9,961 crore, primarily due to the high cost of premium sports rights and increased digital investments. This rise in expenses led to a net loss of Rs. 324 crore, compared to a Rs. 15.8 crore loss in FY23.

ULLU IPO BY MARCH 2025

India's homegrown OTT platform Ullu is preparing to launch its Initial Public Offering (IPO) by March 2025, overcoming earlier setbacks, according to Founder and CEO Vibhu Agarwal.



"The IPO was initially planned for earlier this year, but unforeseen challenges arose. However, we've resolved the issues, and I'm confident we're on track for a successful launch

in March 2025. Great things take time," Agarwal said.

Ullu Digital Limited had filed a draft red herring prospectus in February 2024, aiming to raise ₹135–150 crore. If successful, it will be one of the largest IPOs in the MSME sector by size.

BROADCASTERS DEMAND 'PRIMARY RIGHT' TO AUDIT DPOS

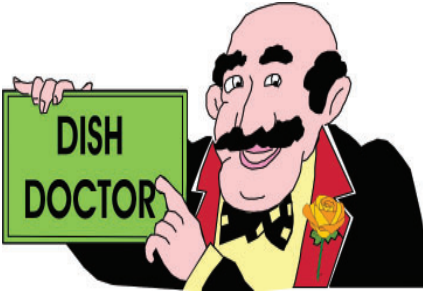
Broadcasters have called for the "primary right" to audit Digital Platform Operators (DPOs) during an open house discussion on TRAI's consultation paper concerning audit provisions under the Telecommunication (Broadcasting and Cable) Services Interconnection Regulations.



Clause 15(1) of the 2017 regulations mandates annual audits by TRAI-empowered auditors for DPO systems. However, broadcasters expressed concerns over incomplete and delayed audits, which impact revenue and transparency.

Radhakrishnan Nair, Secretary of the Indian Broadcasting and Digital Foundation (IBDF), stressed the need for stringent audit mechanisms to ensure accurate subscriber data reporting. He also cautioned against infrastructure sharing, warning that it could compromise content security and result in financial losses.

The discussion marks a pivotal moment for balancing compliance with the dynamic needs of the broadcasting industry. ■



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FWA/AIR FIBER

Q: Out of the two ie Fiber FTTH & Fixed Wireless Access ie FWA/Air Fiber? Which is better and why?

*Sriram Iyer,
Cable TV Consultant, Bengaluru*

Ans.: Fiber to the Home (FTTH) and Fixed Wireless Access (FWA), often referred to as "Air Fiber," are two broadband technologies with distinct characteristics. FTTH generally offers superior performance and reliability for several reasons:

SPEED AND BANDWIDTH

- ◆ FTTH: Fiber optic cables can deliver extremely high speeds (up to 1 Gbps or more) with virtually unlimited bandwidth. This is because light signals in fiber optics suffer minimal degradation over long distances.
- ◆ FWA: Speeds are typically lower and more variable, as they depend on spectrum availability, signal quality, and environmental factors like interference and line-of-sight issues. Speeds may max out around 100-300 Mbps for most deployments.

LATENCY

- ◆ FTTH: Fiber networks have ultra-low latency, making them ideal for applications requiring real-time responsiveness, such as online gaming, video conferencing, and stock trading.
- ◆ FWA: Latency is higher and less consistent due to the

एफडब्लूए/एयर फाइबर

प्रश्न: फाइबर एफटीटीएच और फिक्सड वायरलेस एक्सेस यानी एफडब्लूए/एयर फाइबर में से कौन बेहतर है और क्यों?

*श्रीराम अय्यर,
केबल टीवी सलाहकार, बंगलुरु*

उत्तर: फाइबर-टू-द-होम (एफटीटीएच) और फिक्सड वायरलेस एक्सेस (एफडब्लूए), जिन्हें अक्सर 'एयर फाइबर' के रूप में संदर्भित किया जाता है, दो ब्रॉडबैंड तकनीकें हैं जिनकी अलग-अलग विशेषतायें हैं। एफटीटीएच आमतौर पर कई कारणों से बेहतर प्रदर्शन और विश्वनीयता प्रदान करता है।

गति और बैंडविड्थ

- ◆ एफटीटीएच: फाइबर ऑप्टिक केबल लगभग असीमित बैंडविड्थ के साथ बेहद उच्च गति (1 Gbps या उससे अधिक) प्रदान कर सकते हैं। ऐसा इसलिए है क्योंकि फाइबर ऑप्टिक्स में लाइट सिगनलों को लंबी दूरी पर न्यूनतम गिरावट का सामना करना पड़ता है।
- ◆ एफडब्लूए: गति आमतौर पर कम और अधिक परिवर्तनशील होती है, क्योंकि वे स्पेक्ट्रम की उपलब्धता, सिगनल की गुणवत्ता, हस्तक्षेप और लाइन ऑफ साइट मुद्दों जैसे पर्यावरणीय कारकों पर निर्भर करती हैं। अधिकांश परिनियोजनों के लिए गति अधिकतम 100-300 एमबीपीएस हो सकती है।

विलंबता

- ◆ एफटीटीएच: फाइबर नेटवर्क में अत्यंत कम विलंबता होती है, जो उन्हें ऑन लाइन गेमिंग, वीडियो कॉन्फ्रेंसिंग और स्टॉक ट्रेडिंग जैसे वास्तविक समय की प्रतिक्रिया की आवश्यकता वाले आवेदनों के लिए आदर्श बनाती है।
- ◆ एफडब्लूए: वायरलेस तरीके से सिगनल ट्रांसमिट करने में अंतर्निहित देरी और संभावित



inherent delay in transmitting signals wirelessly and potential network congestion.

RELIABILITY

- ◆ FTTH: Fiber is immune to electromagnetic interference and weather-related disruptions, ensuring a stable and consistent connection.
- ◆ FWA: Performance can degrade due to weather conditions (rain, fog, or wind), physical obstructions (trees, buildings), or radio frequency interference.

SCALABILITY

- ◆ FTTH: Once installed, fiber infrastructure can support higher speeds and bandwidth in the future with minimal upgrades, ensuring longevity.
- ◆ FWA: Limited by available spectrum and wireless technology advancements, making it harder to scale as demand grows.

SYMMETRY

- ◆ FTTH: Offers symmetrical upload and download speeds, crucial for modern applications like cloud computing and remote work.
- ◆ FWA: Often asymmetrical, with slower upload speeds compared to downloads, which can impact performance for interactive or upload-heavy activities.



NETWORK CONGESTION

- ◆ FTTH: Fiber connections are dedicated and less likely to experience congestion since they don't share capacity with other users.
- ◆ FWA: Shares wireless spectrum among multiple users, leading to congestion during peak usage times.

DEPLOYMENT CHALLENGES

- ◆ FTTH: Requires significant initial investment for laying fiber cables, making it less feasible in remote or rural areas.
- ◆ FWA: Easier and faster to deploy, particularly in areas with low population density or difficult terrain. ■

नेटवर्क भीड़ के कारण विलंबता अधिक और कम सुसंगत है।

विश्वनीयता

- ◆ एफटीटीएचः फाइबर विद्युत चुम्बकीय हस्तक्षेप और मौसम संबंधी व्यवधानों से प्रतिरक्षित है, जो एक स्थिर और सुसंगत कनेक्शन सुनिश्चित करता है।
- ◆ एफडब्ल्यूः मौसम की स्थिति (बारिश, कोहरा या हवा), भौतिक अवरोधों (पेड़ इमारतों) या रेडियो फ्रीक्वेंसी हस्तक्षेप के कारण प्रदर्शन में गिरावट आती है।

स्केलेबिलिटी

- ◆ एफटीटीएचः एक बार इंस्टॉल होने के बाद, फाइबर इंफ्रास्ट्रक्चर भविष्य में न्यूनतम अपग्रेड के साथ उच्च गति और बैंडविड्थ का समर्थन कर सकता है, जिससे दीर्घायु सुनिश्चित होती है।
- ◆ एफडब्ल्यूः मौसम की स्थिति (बारिश, कोहरा या हवा), भौतिक अवरोधों (पेड़ इमारतों) या रेडियो फ्रीक्वेंसी हस्तक्षेप के कारण प्रदर्शन में गिरावट आती है।

सममितता

- ◆ एफटीटीएचः सममित अपलोड और डाउनलोड गति प्रदान करता है, जो क्लाउड कंप्यूटिंग और दूरस्थ कार्य जैसे आधुनिक आवेदनों के लिए महत्वपूर्ण है।
- ◆ एफडब्ल्यूः अक्सर असममित डाउनलोड की तुलना में धीमी अपलोड गति के साथ, जो इंटरैक्टिव गति या अपलोड भारी गतिविधियों के लिए प्रदर्शन को प्रभावित कर सकता है।

नेटवर्क कंजेशन

- ◆ एफटीटीएचः फाइबर कनेक्शन समर्पित होते हैं और उनमें कंजेशन की संभावना कम होती है क्योंकि वे अन्य उपयोगकर्ताओं के साथ क्षमता साझा नहीं करते हैं।
- ◆ एफडब्ल्यूः कई उपयोगकर्ताओं के बीच वायरलेस स्पेक्ट्रम साझा करता है जिससे पीक उपयोग के समय भीड़भाड़ होती है।

परिनियोजन चुनौतियां

- ◆ एफटीटीएचः फाइबर केवल विछाने के लिए महत्वपूर्ण प्रारंभिक निवेश की आवश्यकता होती है, जिससे दूरदराज या ग्रामीण क्षेत्रों में यह कम व्यवहार्य हो जाता है।
- ◆ एफडब्ल्यूः विशेषरूप से कम जनसंख्या घनत्व या कठिन भूभाग वाले क्षेत्रों में इसे स्थापित करना आसान और तेज है। ■

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CHANNEL CHANGES

Here are the major changes that have taken place on the various satellites over India in the past month.

INTELSAT 39 AT 62.0E

On 14th Alkawthar TV, Press TV, IFilm Arabic, Sahar Kurdi, Alalam News Channel and Alalam News Channel Syria have left 10965 V; Alkawthar TV has started on 11555 V, clear.

IS 20/36 AT 68.5 DEG E

On 4th LoveWorld Sat and Bible Explorations TV have left 12522 H; KICC TV is back on 12562 H, clear. On 7th LoveWorld Sat and Bible Explorations TV are back on 12522 H, clear. On 8th WildEarth has started on 11130 V and 11130 H, Irdeto; Holiday Channel has replaced Big Brother Mzansi on 11554 V and 1164 V. On 14th Food Food has left 4184 V. On 29th Amen TV Sat has started on 12522 H, clear.

ABS 2/2A AT 75 DEG E

On 2nd Da Vinci has left 11800 V; Moy Mir has started on 11920 V, encrypted; Viju Nature, Viju Explore, Viju History, Viju TV 1000, Viju TV 1000 Russkoe and Viju TV 1000 Action have left 11920 V. On 4th Setanta Sports Philippines and Studio Universal Philippines on 4093 V are now encrypted.

APSTAR 7 AT 76.5 DEG E

On 20th Metro 1 News, VSH News, Special TV, Sab TV, Venus HD and A Plus have started on 3820 V, clear.

THAICOM 5/6A/8 AT 78.5 DEG E

On 21st TV Direct 8/10, Star TV (Thailand) and MV Mall DD have started on 12343 V, clear; Variety Hit, Star TV (Mongolia) and Rama Channel (2) have left; TV Market has

left 12687 V; Movies & sat Asia is now in clear; Baanbaan TV 73 and Cool Channel have started on 12728 V, clear; CNBC Asia-Pacific, Nick Jr Asia, BBC News Asia Pacific, True Movie Hits, True Thai Film and True Premiere Football 5 have started on 11090 H, encrypted; True Sports 5, True Explore Life and True Explore Sci have left; Hang Meas Cine, DTH Animal, True Sports 3, Astro Sports Plus, KBS World, LTV Movies and Astro Grandstand have started on 11480 H, Neotion. AXN East Asia and Hollywood Movie Channel are now encrypted. Komsan TV, Animal Planet Southeast Asia, True Premiere Football 1, Astro Sports UHD, Arirang World, LFC TV and Astro Premier League have left; Beln Sports 2 Thailand has started on 11640 H, encrypted.

INSAT 4A/4B/ GSAT-10 /GSAT- 30 AT 83 DEG E

On 8th Bada Khabar, M Tunes + and I Love have moved from 4175 H to 3968 H, clear. On 10th Desh News and M Nadu TV have left 3852 H; 7S Music and Prime 9 News have started on 3896 H, clear. On 13th Om TV has started on 3896 H, clear.

MEASAT 3B/3D AT 91.5 DEG E

On 3rd Beln Sports 1 Malaysia & Singapore and Drama Hebat have left 10812 V; Astro Warna has left 10852 V; Home of Kids has started on 10892 V, Videoguard; Oppa-Mania and Project High Council have left 10892 V. Astro Premier has left 10982 V; Astro Oasis, Astro Awani, Astro Arena and Astro Prima have left 11062 V.

INSAT 4B/3A / GSAT 15 / GSAT 17AT 93.5 DEG E

On 14th India Superfast has left 4160 H; Ishwar Bhakti TV has started on 4176 H, clear. On 17th DD Bangla has left 3952 H; DD Punjabi has left 3960 H; DD Girnar has left 3970 H; DD Chandana has left 3976 H; DD Odia has left 3992 H; DD Kashir has left 4000 H. On 19th DD Bangla has started on 3949 H, clear; DD Punjabi has started on 3953 H, clear; DD Girnar has started on 3957 H, clear; DD Chandana has started on 3961 H, clear; DD Odia has started on 3965 H, clear; DD Kashir has started on 3977 H, clear. On 30th Topper TV has left 11590 H.

ASIASAT 7 AT 105.5 DEG E

On 14th MovieToday, Star Max, Mega Entertainment and FilmAsia have started on 3663 V, clear; Ultra and Zindagi HD have left; Revival TV has left 3880 H.

THAICOM 4 / BANGABANDHU 1 AT 119.5 DEG E

On 6th Sony Max Asia, Sony Sports Ten 1, SET Asia, Sony Pix, Sony SAB Asia and Sony BBC Earth have left 4780 V. On 11th Gaan Bangla TV has left 4600 H.

ASIASAT 9 AT 122 DEG E

On 10th CNA Asia has started on 4180 V, clear.

VINASAT 1/2 AT 132E/131.8E

On 7th CNA Asia, France 24 English, DW English and Arirang World have started on 11262 V, Conax; VTC 7/ 11/14/16 have left.

CHANNEL GUIDE

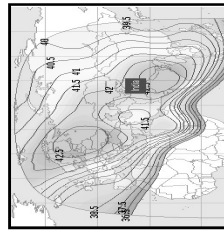
UPDATED AS OF 1ST JANUARY 2025 FTA = Free To Air • SCR = Scrambled • Radio Channels in Italics

FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
INTELSAT-38/AzerSpace2 at 45.1 deg East: Bom Az 238 EI 51, Blr Az 250 EI 49, Del 232 EI 41, Chennai Az 252 EI 46, Bhopal Az 238 EI 44 Cal Az 248 EI 35					
11510 V	Dialog DTH: Food Network Asia, National Geographic Wild Asia, Animal Planet India, Discovery Channel India, Discovery Science India, TLC India, National Geographic India, History TV 18, Travelxp HD, HGTV Asia, Food Network Asia, Sony Sports Ten 1, Ten Cricket, Sony Sports Ten 2, Eurosport Asia, Star Sports 1, Star Sports 2, HBO Signature Asia, HBO Family Asia, & fix, Hits Movies, Sony Pix, Hits, Zee Café, Warner TV Asia, AXN East Asia	27690	5/6	DVB-S	India Beam
11555 V	Dialog DTH: Discovery HD World India, Animal Planet India, AXN East Asia, Rock Entertainment, Star Movies Select, HBO Asia, Star Movies India, CinemaWorld, Cinemax Asia, HBO Hits, Star Sports 1, Star Sports Select HD1, Star Sports Select HD2, Sony Sports Ten 2, Sony Sports Ten 5, Premier Sports Asia, ThePapare TV	29900	2/3	DVB-S2	India Beam
11592 V	Dialog DTH: Channel One, Rupavahini, Channel Eye, ITN, Vasantham TV, TV Derana, Swarnavahini, Sirasa TV, Shakthi TV, Sri Lanka TV, TNL TV, Art, Ada Derana 24, Siyatha TV, Haritha TV, TV Didulu, Ridee TV, Citi Hitz, Supreme TV, Rangiri TV, Lanka TV, Hill TV, Pragna TV, Damsathara TV, Jaya TV, The Buddhists TV	27690	5/6	DVB-S	India Beam
11637 V	Dialog DTH: Colors Infinity, FashionTV India, Fox Life India, Comedy Central India, Airing World, Star Bharat India, SET India, Sony Max India, Star Gold India, Colors, Star Plus India, B4U Movies India, Star Gold Romance, Zee Cinema Asia, Colors Tamil, Sun TV, KTV, Star Vijay India, Kalaignar TV, Zee Tamil, Siripoli, Guru TV, Nenasa Sinhala Grade 1-5, Nenasa Tamil Grade 1-5, Nenasa Sinhala Grade 6-9, Nenasa Tamil Grade 6-9, Nenasa Sinhala O/L, Nenasa Tamil O/L, Nenasa Sinhala A/L, Nenasa Tamil A/L	27690	5/6	Irdeco 2	India Beam
11675 V	ABC Australia India	27690	5/6	MPEG-4/SD	India Beam
11675 V	Dialog TV: Shradhdha TV, Swarga TV, Verbum TV, Aljazeera English, ABC Australia India, BBC News South Asia, CGTN, CNN International South Asia, NDTV 24x7, France 24 English, EuroNews English, Bloomberg TV Asia, CNBC Asia-Pacific, B4U Music India, VH1 India, Channel C, Sun Music, Zing Asia, Da Vinci Learning India, CBeebies Asia, Cartoon Network HD+, A Plus Kids TV, Nickelodeon South East Asia, Baby TV Asia, Disney Junior India, Nick Jr India	27690	5/6	DVB-S	India Beam
AMOS 4 at 65 deg East					
10735 V	DishHome DTH Nepal: Reality TV, Avenues Khabar, News 24, ABC News, Janata TV, Nice TV, Colors, Star Plus India, Zee TV India, SET India, MTV India, Zoom, Zing Asia, Discovery Channel India, Animal Planet India, National Geographic India, TLC India, Sony Pix, Star Movies India, Star Sports Select HD1, Sony Sports Ten 1, Sony Sports Ten 2	45000	1/2	DVB-S2/QPSK	India Beam
10789 V	DishHome DTH Nepal: MTV Beats, B4U Music India, Discovery Channel India, Star Sports 1, Star Sports 1 Hindi, Star Sports Select HD1, Sony Sports Ten 1, Sony Sports Ten 2, Sony Sports Ten 3, Sony Sports Ten 5, CNN International South Asia, BBC News South Asia, Aljazeera English, CNA, RT News, Zee News, Hungama TV, DishHome Cinema Ghar 888, Star Sports 1, Star Sports 2, Star Sports 1 Hindi, Star Sports Select HD2	45000	1/2	DVB-S2/QPSK	India Beam
10860 V	DishHome DTH Nepal: DishHome Showcase, Plus Movie, Kantipur TV, Image Channel, NTV National, Sagarmatha TV, Colors, Zee TV India, Star Plus HD India, Zee Cinema Asia, Star Gold HD India, HBO Asia, ACORAB, Radio Nepal, Nepal FM, Thaha Sanchar Network, Ujyalo 90 Network, Janata Media Radio, BFBS Gurkha Network, Radio Nepal	45000	1/2	DVB-S2/QPSK	India Beam
10914 V	DishHome DTH Nepal: DishHome Ramallo, Action Sports 1, DishHome Gunjan, NTV News, Mountain TV, Global TV, BTV Business, TV Today, Nari TV, Bhakti Darshan TV, Business Plus, Omkar TV, Yoho TV, Deep TV, Movie Entertainment TV, News Nepal, GNN HD, Space 4K, Seven Star TV, Colors, Star Plus India, Zee TV India, Sony SAB India, Zee Anmol, Anjan TV, Dargal TV, Star Gold India, Zee Cinema Asia, Star Gold 2, B4U Movies India, Goldmines, Sony Max 2, Zee Classic, VH1 India, History TV 18, Discovery Science India, Discovery Turbo India, Sony BBC Earth, DD Sports, Times Now, CNN News 18, Zee Business, Aaj Tak, Nickelodeon India, Discovery Kids India, Nick Jr India, Disney Channel India, Super Hungama, Sonic Nickelodeon, Disney Junior India, Aastha India, Madani Channel Urdu	45000	2/3	DVB-S2/QPSK	India Beam
11289 V	DishHome DTH Nepal: NTV Kohalpur, NTV Itahari, Prime TV, ITV Nepal, National Geographic India, EuroNews English, Sony Yai! & TV, & pictures, Sony Max India, Sony Sports Ten 5, National Geographic India, Zee Café, AP1 HD, Kantipur TV, DishHome Ramallo, Action Sports 1, Action Sports 2, Sarokar TV	45000	2/3	DVB-S2/8PSK	India Beam
12660	DishHome TV NEPAL: Colors Cineplex, Sony Sports Ten 3, A Sports, National Geographic Wild India, Star Life India, NTV Plus, BM HD, Kantipur Max, Plus Movie, DishHome Gunjan, DishHome Cine Hits, Madesh Plus	45000	2/3	DVB-S2/QPSK	India Beam
INTELSAT 17 AT 66 Deg E:					
3845 V	Tata: Kalaignar TV, Kalaignar Seithigal, Isai Aruvi, Siripoli, Chithiram, Kalaignar Murasu TV, Vendhar TV, News 7 Tamil, Sai TV, Hindu Dharmam, TV 5 Kannada, Malai Murasu TV, Malar TV, News J, Patrika Rajasthan, Sairam TV, Pyramid Meditation Channel	28800	5/6	"DVB-S2"8PSK"	Landmass beam
3876 H	Indiasign: CVR English, CVR OM Spiritual, Pear TV, Unique TV, Mahaa News, Mahaa Max, Nireekshana TV, Pasand TV, Hornbill TV, Madhimgam TV, TV 45	14300	3/4	"DVB-S2"8PSK"	Landmass beam
3894 H	Indiasign: HMTV, Aradana TV, T News, MBC TV, Calvary TV, Prarthana Bhawan TV, 7S Music, ABN (India), Mojo TV, V6 News, CVR News, Mercy TV (India), Orange Bangla TV, CVR Health, INews (India), 10 TV	13840	5/6	"DVB-S2"8PSK"	Landmass beam
3914 H	New Delhi TV: NDTV 24x7, NDTV India, NDTV Profit, NDTV Prime, NDTV Good Times, NDTV MP & Chhattisgarh, NDTV Rajasthan, NDTV Marathi	11200	3/4	DVB-S2 8PSK	Landmass beam

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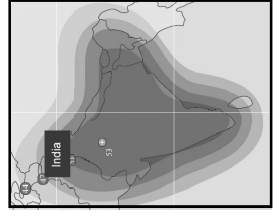
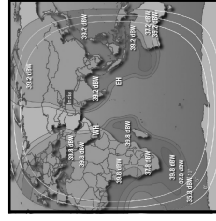
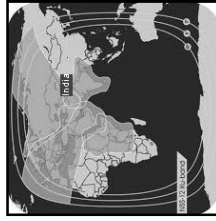
FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
3932 H	Indo Teleports:Peppers TV, Total TV, Hanvana, Tabbar Hits, Total States, Chardikla Time TV, Enterr 10 Bangla, Danggal Oriya	18330	2/3	DVB-S2	Landmass beam
3966 H	Thanthi TV, News Tamil 24x7, Thanthi One	14400	2/3	DVB-S2 8PSK	Landmass beam
3984 H	VoA TV Global, VoA TV Indian Ocean, VoA TV China, VoA TV Africa, God TV Asia	14400	3/4	DVB-S2 8PSK	Landmass beam
4006 H	PlanetCast: Shalom TV India, Jeevan TV, Media One, Kaumudy TV, Powervision TV, Sathiyam TV, Dheeran TV, Harvest TV 24x7, Safari, Aashirwad, Darshana TV Middle East, Dighvijay News 24x7, Velicham TV, Studio One +, Vertent Samachar Plus 24x7, Reporter, Ate TV	14400	3/4	DVB-S2 8PSK	Landmass beam
4015 V	Tata:Angel TV India, Madha TV, Makkal TV, Kairali TV, Kairali News, We, Moon TV, Puthiya Thalaimurai, Sankara TV, Tamilian TV, Vasanth TV, Win TV (India), Polimer, Public TV, TV 5 News, Polimer News, Public Music, Kairali Arabia, Public Movies, Mathrubhumi News, Kappa TV, Janam TV	30000	3/4	DVB-S2 8PSK	Landmass beam
4024 H	PlanetCast: Vijay TV, Asianet News, Asianet Middle East, Suvarna News, Amrita TV, Goodness TV, Jaihind TV, Manorama News International, 24 News, Flowers TV	14400	2/3	DVB-S2 8PSK	Landmass beam
INTELSAT 20 / 36 at 68.50 deg E: Bom Az 193 EI 67, Bir Az 215 EI 71, Del 197 EI 55, Chennai Az 222 EI 69, Bhopal Az 202 EI 61 Cal Az 223 EI 55					
3715 V	KBS Korea	2800	2/3	Mpeg4	C Beam
3739 H	Warner Bros. Discovery, Cartoon Network India, Discovery Channel India, D'Tamil, Animal Planet India, Investigation Discovery India, Investigation Discovery India, Discovery Science India, Discovery Turbo India, TLC India, Discovery HD World India, Discovery Kids India, TLC HD India, Animal Planet HD World India, Pogo, Cartoon Network India	30000	3/4	DVB-S2 8PSK	C Beam
3769 V	Aastha TV, Dharm Sandesh, Aastha Gujarati, Aastha Telugu, Aastha Kannada	3600	3/4	DVB-S2 8PSK	C Beam
3774 V	Aastha TV	2944	3/4	FTA	C Beam
3777 V	Aastha Bhajan India, Vedic	2940	3/4	FTA	C Beam
3782 V	CGN TV	2965	3/4	FTA	C Beam
3788 V	J Movies	4400	2/3	DVB-S2 8PSK	C Beam
3795 V	Airrang World HD	5580	2/3	DVB-S2 8PSK	C Beam
3828 V	Indo Teleports: Jan TV, Khabar Fast, Pratidin Time, Jan TV + (scr), Maha Movies, Fakt Marathi	7200	3/4	DVB-S2 8PSK	C Beam
3850 V	Viacom 18: Colors Marathi HD, Colors Bangla HD, Colors Kannada HD, Colors Super HD, Comedy Central India, MTV Beats	14400	5/6	DVB-S2 8PSK	C Beam
3868 H	Sports 18: Sports Ten 1, Sony Sports Ten 2, Sony Sports Ten 3, Sony Marathi, Sony Sports Ten 4	14450	3/4	DVB-S2 8PSK	C Beam
3890 V	Daystar TV	1954	5/6	FTA	C Beam
3893 V	Indiasign: Mahaa News, Mahaa Max	2500	5/6	DVB-S2 8PSK	C Beam
3900 H	Sony Pictures Networks India: Sony SAB India, Sony Pix, Sony Aath, Sony Sports Ten 5, Sony Pal, Sony Wah, Sony Max India, Sony Max 2, SET India	22222	5/6	DVB-S	C Beam
3913 V	KBS World HD	6510	3/4	DVB-S	C Beam
3922 V	India TV Speed News	7000	5/6	Mpeg 4	C Beam
3930 H	Sony Sports Network: Sony Sports Ten 5, Sony Sports Ten 2, Sony Sports Ten 3, Ten Cricket	25000	2/3	DVB-S2 8PSK	C Beam
3974 H	The Times Group: Times Now, Zoom (India), ET Now, Movies Now, Movies Now +, Romyedy Now, Mirror Now, Times Now World, MNX, Movies Now, Romyedy Now, MNX, ET Now Swadesh, Times Now Navbharat, Times Now Navbharat	22500	8/9	DVB-S2 8PSK	C Beam
3974 V	Zee NW, Zee Talkies HD, Zee Bangla HD, Zee Tamil HD, Zee Kerala HD, Zee Cinemalu HD, Zee Chitramandir	22500	5/6	Mpeg 4 Conax	C Beam
3995 V	Sun 18 Media Services: CNBC TV 18, CNBC Awaaz, News 18 Lokmat, CNBC Bajar, CNBC TV 18 Prime HD	6666	3/4	Mpeg4, Irdeto	C Beam
4000 H	& TV Middle East, Zee Zest	7500	3/4	Mpeg 4 Conax	C Beam
4003 V	Lamahas: Shubh TV, Sandesh News, Shubh Cinema, InSync	7200	3/4	Mpeg4, DVB S2	C Beam
4012 V	Zee Zest	7200	3/4	MPEG-4/SD	C Beam
4013 H	Indiasign: News Time Bangla, Rupashi Bangla, Aakash Aath, Dhoom Music, R Plus, NewsTime Assam, Manoranjan Movies, R+ Gold	7200	3/4	Mpeg 4 DVB S2	C Beam
4034 H	Sun 18 Media Services: MTV India, Colors, Colors Rishtey Asia, Colors Cineplex Superhits, Nick Jr India, Colors Kannada Cinema, Colors Tamil, Colors Tamil, Colors, Colors Cineplex, Colors Cineplex Bollywood, Sports 18 Hindi, Sports 18 Hindi, Nickelodeon India	20500	2/3	Mpeg4, Irdeto 2	PAL
4034 V	Network 18: History TV 18, History TV 18, News 18 Malayalam, Sonic Nickelodeon, News 18 Tamil, News 18 Assam & North-East, News 18 India, MTV HD+, Sports 18 1, Sports 18 1, Sports 18 Kbel, Sports 18 2, Sports 18 2, Sports 18 Tamil	21600	5/6	Mpeg4 Irdeto 2 HD	C Beam
4054 V	Airrang World	4400	3/4	FTA	C Beam
4064 H	Aljazeera English, CNBC Asia-Pacific, CGTN, EWTN Africa - Asia, ABC Australia Asia, BBC World News South Asia, Radio Australia English for the Pacific, Radio Australia English for Asia, EWTN Radio	19850	7/8	Irdeto 2 / PowerVu / FTA	C Beam
4064 V	Sanskar TV, Satsang TV	4400	3/4	FTA	C Beam
4069 V	Hope Channel International	2500	2/3	FTA	C Beam
4076 V	TRT World HD	3906	5/6	FTA HD	C Beam
4083 V	China Radio International	3428	3/4	FTA	C Beam
4090 H	Travel XP HD(scr), Kashish News, Taaza TV, STV Haryana News, Travel XP Tamil (scr), Sangeet Marathi, VTV News, Travel XP HD (scr), Hi Dost!, Bangla Talkies, Foodxp, Bhojpuri Cinema	14368	3/4	MPEG4 / FTA/ Irdeto 2	C Beam
4103 H	CNN News 18, News 18, News 18 UK	5720	3/4	Conax, Irdeto 2	C Beam



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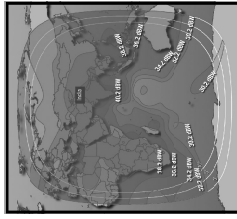
FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
4103 V	Zee News	7200	3/4	Conax, MPEG-4	C Beam
4115 H	NTV (India), Bhakthi TV, Vanitha TV	7200	3/4	MPEG-4/SD	C Beam
4116 H	IndiaSign: PTC News, PTC Punjabi, PTC Chakde, PTC Punjabi Gold, Oscar Movies Bhojpuri, PTC Simran, PTC Music	8800	5/6	DVB S2 Mpeg 4	C Beam
4128 H	NHK World Network: NHK World Japan, NHK World Premium, NHK World Japan Radio	14890	2/3	MPEG-4/HD	C Beam
4130 V	Jaya TV HD, Jaya Plus, Jaya Max	12800	3/4	MPEG4 / Irdeto 2	C Beam
4150 H	Urdu 1 ME (scr), Peace TV Urdu, Peace TV English, Peace TV Bangla, Peace TV Chinese, Huda TV	14400	3/4	FTA / Irdeto 2	C Beam
4155 V	Zee Cinema HD, Zee TV HD, Zee Anmol, & Pictures HD, Zee Marathi HD, Zee Telugu HD, Zee Kamada HD	22500	5/6	Mpeg 4 DVB S2	C Beam
4163 H	WION, EZ Mali, Zee Kalaik, Zee Salaam, Zee UP / Uttarakhand	7500	5/6	Mpeg 4 Conax	C Beam
4182 H	Aaj Tak India Today, Good News Today, Aaj Tak International, India Today International, Aaj Tak UK, Aaj Tak	16296	3/4	Irdeto-2	C Beam
4184 V	Planetcast: Sahana News, News 1st (India), Channel 36 UP/UK, News India 24x7, Anjan TV, Food Food, 1 Yes News, Bharat Express, Swadesh News, India Ahead, Admath TV, Republic TV, Harvest TV Kerala, Jai Maharashtra, Republic Bangla, 1st India, Bharat 24, M Nadu TV, TV 9 Bharatvarsh, TV 9 Telugu, TV 9 Kannada, TV 9 Gujarati, TV 9 Marathi	21600	8/9	FTA Mpeg4	C Beam
4195 H	Sky News International	4000	1/2	PowerVu	C Beam
GSAT-18 at 74 Deg East Bom Az 173 El 73, Bir Az 191 El 74, Del Az 184 El 56, Chennai Az 202 El 73, Bhopal Az 186 El 62 Cal Az 212 El 59					
3777 H	DD Sports, DD Kisan	4400	3/4	Mpeg 4 BISS	India Beam
11578 H	Utkarsh Channel 4, Utkarsh Channel 1, Utkarsh Channel 2, Utkarsh Channel 3	5000	3/4	Mpeg 2 FTA	India Beam
11667 V	KITE VICTERS: KITE VICTERS Plus, KITE VICTERS	2000	5/6	Mpeg2 FTA	India Beam
11681 V	VTU	2966	3/4	Mpeg 2 FTA	India Beam
11686 V	Lokshiksha Sanchar	2900	3/4	Mpeg 2 FTA	India Beam
ABS 2 at 75 deg E: Bom Az 173 El 73, Bir Az 191 El 74, Del Az 184 El 56, Chennai Az 202 El 73, Bhopal Az 186 El 62 Cal Az 212 El 59					
12524 H	Supreme Master TV, TBN Inspire International, SBN International, TBN Asia, Daystar TV, Hwazan Satellite TV	30000	1/2	FTA	India Beam
APSTAR 7 at 76.5 deg E: Bom Az 168 El 67, Bir Az 184 El 74, Del 181 El 56, Chennai Az 196 El 73, Bhopal Az 183 El 63 Cal Az 209 El 60					
3634 H	Kantipur Media Group: Kantipur TV, Kantipur Cineplex	6000	3/5	DVB-S2*8PSK	Asia Beam
3745 V	TelNest: Metro 1 News, VSH News, Special TV, Sab TV, Aruj Entertainment, Venus Entertainment	5000	3/5	DVB-S2 MPEG-4	Asia Beam
3753 V	KidZone+ Pakistan, Planet Fun, Capital TV (Pakistan), Inplus Pakistan	8330	3/5	Mpeg 4	Asia Beam
3780 V	APT1 Sports, Raajje TV, HKS TV, HKS TV Variety, HKS TV Travel, HKS TV Fashion, HKS TV Finance, HKS TV International, Eurosport Asia, Eurosport Asia, FashionTV Asia, FashionTV India	30000	3/4	Mpeg4	Asia Beam
3788 H	SES: CTN (USA), The World Network, SBN International, The Overcomer	10700	1/2	MPEG-4/SD	Asia Beam
3844 V	Trinity Broadcasting, TBN Asia, TBN Inspire International, Telenovela Channel, 702 DZAS, The Edge Philippines	4000	3/4	DVB-S2*QPSK	Asia Beam
3865 V	Play Entertainment, Channel Five	4166	3/5	MPEG-4/HD	C Beam
3873 V	Bol News HD, Bol Entertainment HD	8000	3/5	Mpeg 4 HD FTA	C Beam
3960 H	HBO: HBO Asia, HBO Hits, HBO Signature Asia, HBO Family Asia, HBO Asia, Cinemax Asia, Cinemax Asia, Cinemax Asia, HBO Taiwan, HBO Taiwan	30000	3/4	Mpeg 4	Asia Beam
3988 V	H Now TV	1666	3/4	Mediagipher 2	Asia Beam
3955 V	TV Maldives, Dhivehi Raajjeyge Adu, Dhivehi FM	3200	3/5	MPEG-4/HD	Asia Beam
4000 H	A1 Telekom Austria:Luxe TV, Love Nature, MyZen TV, Trace Sport Stars, Mezzo Live Asia, Trace Urban Southeast Asia, Star Sports China, Star Sports 2 China, Museum TV International	30000	3/4	MPEG-4/HD	Asia Beam
4080 H	STAR TV: Ten Sports Pakistan, AXN East Asia, Star Movies China, National Geographic China	30000	3/4	Conax Viaccess	C Beam
GSAT 10/GSAT 30 at 83 deg E: Bom Az 151 El 64, Bir Az 157 El 73, Del Az 168 El 55, Chennai Az 166 El 62 Cal Az 194 El 63					
3725 H	ETV NW: News 18 Madhya Pradesh & Chhattisgarh, News 18 Rajasthan, News 18 Bihar & Jharkhand, News 18 Urdu, News 18 Gujarati, News 18 Odia, Colors Bangla, Colors Marathi, Colors Karnataka, Colors Infinity V/H1 India, Colors Cineplex, Colors Infinity, Colors Gujarati Cinema, Colors Bangla Cinema, Nick HD+, MTV Beats, Colors Cineplex, VH1 India, Colors Odia, Colors Gujarat	30000	3/4	Mpeg 4 Irdeto	India C Beam
3750 V	DD Uttarakhnad	2900	3/4	FTA	India C Beam
3753 V	DD Chattisgarh	2900	3/4	FTA	India C Beam
3756 H	Indiasign:Manoranjan Prime, Sidharth TV, Sidharth Gold, Sidharth Bhakti, Jay Jagannath, A1 TV, 4TV News, BS TV (India), Tribe TV, Tribe Plus tests, Raffear Media, Popular TV (India), HNN 24x7, Shubhsandesh TV, Goodnews TV (India), Samachar Plus Uttarakhnad, Samachar Plus Rajasthan, Big TV (India)	15000	5/6	MPEG-4/SD	ECC
3757 V	DD Jharkhand	2900	3/4	fta	India C Beam
3768 H	SVBC, SVBC Telugu, SVBC 2 Tamil, SVBC 3 Kannada, SVBC 4 Hindi	3000	3/4	Mpeg 4	ECC
3769 V	DD Haryana	3000	3/4	FTA	India C Beam
3776 H	Ishwar Bhakti TV, Rongeen TV, Manoranjan Grand, Manoranjan TV, Nandighosha TV, News Daily 24, 6 TV Telugu, Popular TV, Sanskriti 24x7, Faten TV, Channel Divya, Nepal 1, Enterr 10 Movies, Dangal TV, Khushboo TV Bangla, Kalinga TV	11250	5/6	FTA	ECC



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FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
3805 H	Planetcast: Shemaroo Comedy, Shemaroo Bhakti, Hindi Khabar, Live Times, Pitaara, Bharat Samachar, Sudarshan News, Khabrain Abhi Tak, INH 24x7, Public First, Saam TV, Music India, Sangeet Bangla, Sangeet Bhojpuri, 9XM, 9X Jhkaas, Mastiii, Puthiya Thalaimurai Express, News 11, Channel WIN, Jinvani Channel, Ind 24, Dhamaal, Maiboli, Dabangg, 9X Jalwa, B4U Kadak, Network 10, Sadhna Bhakti, Shemaroo TV, Puthuyugam TV, Argus News, IBC Tamil TV, Vistara News, Shemaroo Bollywood, India Daily, India Daily	28500	5/6	DVB-S2 MPEG-4/SD	India C Beam
3832 V	Gyandhara, Gyandarshan	3000	3/4	FTA	India C Beam
3833 H	Indiagion: India Ahead, NB News, TV 27 News, Munsif TV, TVN News	3750	5/6	MPEG-4/SD	India C Beam
3843 H	NK TV Plus, NK TV Promo, Spondon TV	3600	5/6	MPEG-4/SD	India C Beam
3847 H	Prameya News 7	1500	3/4	DVB-S2 MPEG-4	India C Beam
3852 H	Desh News, M Nadu TV	3600	5/6	MPEG-4/SD	India C Beam
3861 V	Kanak News, Anadi TV, Naxatra News Hindi	3974	3/5	FTA	India C Beam
3870 H	Mega TV Network: Mega TV (India), Mega 24, Mega Musiq	5000	5/6	MPEG-4/SD	India C Beam
3874 H	Prag News, Rengoni, NE News	2400	3/4	FTA	India C Beam
3883 H	Sakshi TV	4440	3/4	FTA	India C Beam
3885 V	Doodrarshan: DD National, DD Bharati, DD Kisan, DD Urdu, DD Sports, Sansad TV, Prasara Bharati News Services, DD National, DD News, DD India, DD Sports, Sansad TV 1	30000	3/4	FTA	India C Beam
3887 H	CTVN AKD Plus, AKD Calcutta News, CN Rashtriya	3663	5/6	Mpeg 4 FTA	ECC
3896 H	Desh News, Super TV (India), Public First, News 360, News State Bihar Jharkhand, News State Punjab Haryana Himachal, News State MH & GA, M Nadu TV, Win TV (India), Sai TV	10800	5/6	Mpeg 4 FTA	India C Beam
3925 H	Planetcast: Kerala Vision, All Time Movies, The Q, Shemaroo Marathi Bana, Sarv Dhararam Sangam, Prime News, MKN, B4U Bhojpuri, K News India, Goldmines Movies, Epic TV, Goldmines 2, Hope Channel, India, Aaseevatham TV, Siri Kannada, Vaanavil TV, Goldmines Bollywood, Republic Bharat, Non Stop Samachar India, Dishu TV, ANB News, Goldmines, Subharti TV, ShowBox, News 1 India, Nazara, Filamchi Bhojpuri, Ishara Channel, Gubbare, Studio Yuva, TV 9 Bangla, TV 9 Tamil, IBC 24, 9X Tashan, News Nation, Jantantra TV, News State MP & CHG, News State UP & UK, Shemaroo Classic Brahmaputra Tele Productions, DY 365, Nagaland TV, Jonack	28500	5/6	FTA Mpeg4	India C Beam
3949 V	" Subhavaartha TV, Namikkal TV, Shalini TV, Imayam TV, Ayush TV, NKR TV tests, MK TV (India), MK Tunes, MK Six"	3672	3/4	MPEG4 FTA	India C Beam
3954 V	BTV News, TV 100 (India), India Voice, Shemaroo Umang, Studio One Plus, Care World TV, 99 TV (India), Shekinah TV (India), Swaraj Express SMBC, Paras Gold, APN, Chumbak TV, Swatantra TV, Atrangi, Jehovah TV, TNP News	11572	2/3	MPEG4 FTA	India C Beam
3976 H	Zee Punjabi	9500	5/6	MPEG 4 FTA	India C Beam
3981 H	Tazza TV, Bflix Movies, Hare Krishna TV, Bhakti Darpan International	3300	7/8	Mpeg 4 Conax	India C Beam
4005 H	ETV: ETV Telugu, ETV Bal Bharat English, ETV Bal Bharat Hindi, ETV Bal Bharat Punjabi, ETV Bal Bharat Marathi, ETV Bal Bharat Gujarati, ETV Bal Bharat Telugu, ETV Andhra Pradesh, ETV Bala Bharat Malayalam, ETV Bal Bharat Kamada, ETV Bala Bharat Tamil, ETV Balya Bharat Bangla, ETV Telangana, ETV Cinema, ETV Plus, ETV Life, ETV Abhiruchi, ETV Cinema, ETV Plus, ETV Bal Bharat, ETV Bal Bharat	4216	5/6	Mpeg 4	India C Beam
4005 V	ETV: ETV Telugu, ETV Bal Bharat English, ETV Bal Bharat Hindi, ETV Bal Bharat Punjabi, ETV Bal Bharat Marathi, ETV Bal Bharat Gujarati, ETV Bal Bharat Telugu, ETV Andhra Pradesh, ETV Bala Bharat Malayalam, ETV Bal Bharat Kamada, ETV Bala Bharat Tamil, ETV Balya Bharat Bangla, ETV Telangana, ETV Cinema, ETV Plus, ETV Life, ETV Abhiruchi, ETV Cinema, ETV Plus, ETV Bal Bharat, ETV Bal Bharat	300000	3/4	MPEG 4	India C Beam
4031 H	Mh One TV Network: MHI News, MHI, Shraddha Mh One, Mh 1 Dil Se	4440	3/4	MPEG 4 FTA	Wide Beam
4040H	Zee Network, Zee Picchar, Zee Thirai, Zee Sarthak	7500	3/4	MPEG 4 FTA	Wide Beam
4054 H	Lamhas: Naaptol Tamil, Naaptol Malayalam, Naaptol Kannada, Wow Cinema One, Naaptol Telugu, Bansal News, Gujarat First, Mantavya 24x7 News, MoviePlus, Ballo Ballo, Sharnam TV, Sach Bedhadak, Vistara News, MoviePlex, Peace of Mind TV, Gangaur TV, GS TV (India), Pudhari News, DNN, FGN Channel, Punjabi Hiti, Raapchik, Tehzeeb TV, Santvani Channel	17000	5/6	MPEG-4/SD	India C Beam
4071 H	Sun 18 Media Services: News 18 UP & Uttarakhnad, TopperTV(scr), News18 Gujrati, News18 Bengali, News18 Kamada, News18 Punjab Haryana & HP	7200	3/4	FTA / Irdeto	India C Beam
4073 V	Tarang TV, Tarang Music, Odisha TV, Prarthana TV, Alankar TV	9600	3/4	MPEG-4/SD	India C Beam
4077 H	Surya Samachar	1600	3/4	Mpeg 4 FTA	ECC
4080 H	Public First, 360 News	3200	5/6	Mpeg 4 FTA	India C Beam
4090 H	Zee Network, Zee Bharat, Zee 24 Ghanta, Zee 24 Taas, Zee Delhi NCR Haryana, Zee Bihar Jharkhand	7500	5/6	FTA / Conax	India C Beam
4096 H	News Live, Rang Ramdhenu, Northeast Live, Indradhanu TV	9425	3/4	MPEG-4/SD	India C Beam
4114 H	Manorama News: Manorama News Central, Manorama News North, Mazhavil Manorama HD, Mazhavil Manorama	8000	3/4	MPEG 4 / FTA	India C Beam
4133 H	Indiagion: News 24, E24, Pratham Khabar 24x7, JK 24x7 News, Darshan 24, Awakening TV, News 24 MP & Chhattisgarh, Assam Talks, Aryan TV National	11888	3/4	FTA / Irdeto 2 Mpeg4	India C Beam
4156 H	Zee Network: &Flix HD (scr), Zee Kannada (scr), Zee Telugu(scr), Zee Thirai, Zee Picchar, Zee Cafe, Zee Talkies (scr)	15000	7/8	FTA / Conax	India C Beam
4168 H	Sansad TV	7200	3/4	Mpeg4 FTA	India C Beam



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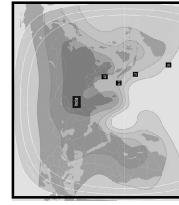
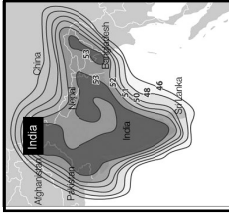
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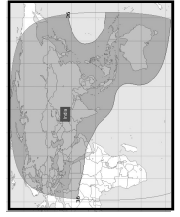
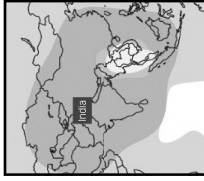
FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
4175 H	Bada Khabar, M Tunes +, ilove	3720	5/6	Mpeg4 FTA	India C Beam
4181 H	Kolkata TV	3232	3/4	FTA	India C Beam
10970 H	TataSky-Star Sports 1 Telugu, Star Bharat India, Star Movies Select, Star Suvarna, Zee Kannada, Cartoon Network India, Gemini Movies, KTV, Colors Marathi, Disney Channel India, Jaya TV, Kairali TV, News 18 Malayalam, Ayush TV, Colors Kannada Cinema	32720	3/4	VideoGuard Mpeg4/HD	India Ku Beam
11010 H	TataSky: Zee 24 KalaK, Jharkhand, Mega Music, Zee 24 Ghanata, News 18 Gujarati, Zee TV Rajasthan, Tata Play Astro Duniya, News 18 Bihar & Jharkhand, Udaya TV, Tata Play Theatre, Sun Music, Colors Tamil, DD Bihar, T News, Chintu TV, Colors Gujarati, We, Zee Bangla, Udaya TV, Tata Play JEE Prep, Zee Bihar Jharkhand, SVBC Telugu, Jaya Max, Vedic	32720	3/4	Mpeg 4 VideoGuard	India Ku Beam
11050 H	TataSky: B4U Kadak, VTV News, News 18 Tamil, VH1 India, Tarang TV, Thanthi TV, Jalsha Movies, Zee Telugu, Aastha Bhajan India, Zee Cinema Asia, Zee Cinema Asia +1, Zee Tamil, MTV HD+, Star Vijay India, Tata Play Hits, Star Pravah, Tata Play Marathi Cinema, Tata Play Classroom, Sun TV	32720	3/4	Mpeg4 HD VideoGuard	India Ku Beam
11090 H	TataSky: Aastha Gujarati, tata Play Telugu Classics, B4U Music India, Asianet News, Colors Odia, Paras Gold, Colors Bangla, Movies Now, J Movie, Raj News Telugu, CBeebies Asia, Cinema TV, Sun Bangla, Spondon TV, Tata Play Videshi Kahaniyan, Udaya Comedy, Zee Sarthak, Nandighosha TV, Siri Kannada, MTV India, Zee Punjabi, E 24, Safari, IBC 24, Zee Zest, ETV Telangana, Tarang Music, Peace of Mind TV, Tata Play Punjab De Rang, D Tamil, Jinvani Channel, 10 TV, ABN, CNBC TV 18, Tata Play Malayalam Cinema, Tata Play Smart Manager, Comedy Central India, Sadhna TV, Sports 18, 1, Tata Play Vedic Maths	32720	3/4	Mpeg 4 VideoGuard	India Ku Beam
11130 H	TataSky: DD News, TataSky Cooking, NDTV India, Prag News, Discovery India, Sony Ten 2, Movies Now, 9Xn, Zee Salaam, News 18, News Live, DY 365, Sony Ten 1, CNBC Awaaz, Disha TV, 9X Tashan, Star Suvarna Plus, Disney Junior, India News Haryana, Gemini Life, Sun Life, B4U Music, Dargal TV, Ramdhenu, Shop CJ, Zee Talkies, Gemini Comedy, NTV, India News, AXN India, Sony ESPN, Public TV, Colors Infinity, Channel NewsAsia, Zing Asia, News18 Lokmat	32720	3/4	Mpeg 4 VideoGuard	India Ku Beam
11170 H	TataSky: Zee News, Zee Business, Hungama TV, Disney India, Star Sports 1 Hindi, PTC Punjabi, Star Sports 1 Tamil, Star Sports 1, PTV Punjabi, Khushi TV, Sony Ten3, Colors Bangla, Colors Kannada, ABP Majha, AajTak, VH1 HD, E24, Nickelodeon India, Epic HD, Star Sports Select HD2, Dance Studio, Colors Marathi, Jalsha Movies, Star Pravah Aditya TV, Sakshi TV, Udaya News, Mazhavil Manorama, Polimer, Asianet News, Wow Movies & Music, Puthiya Thalaimurai, TV 5 News, Isai Aruvi, Chutti TV, Star Ma Music, Thanthi TV, Asianet Plus, Asianet Movies, Channel 100, Kochu TV, Romyedy Now HD, Star Ma Movies HD, AXN India HD, Surya TV, Romyedy Now, Zee Sarthak TV, Prarthana TV, Times Now, CNN News 18, Star World, India Voice, Channel 100	32720	2/3	Mpeg 4 VideoGuard	India Ku Beam
11470 H	TataSky: MTV Beats, Jaya TV, BBC World News, Zee Marathi, Sun Music, Zee Bangla Cinema, Food Food, Maa Movies, Star Suvarna, Zee Kannada, Aakash Aath, ABP Ananda, Sun News, Surya Movies, Kalainagar, Star Vijay Aath, Channel 100, Suvarna News, Zee 24 Ghanata, Aljazeera, Asianet, Zee Delhi, NCR Haryana, Zee Tamizh, Maa Gold, Bhakthi TV, Shraddha Mh 1, ETV Bihar, Peace of Mind TV, NDTV 24x7, India Today, Gemini TV, ETV Telugu, News Nation, Channel 100, Home Shop 18, Zee Rajasthan, Zee 24 Taas, CNN International, Gemini Music, Rang, Pratinidin Time, Republic TV, TataSky Marathi Cinema, Today's Special	32720	3/5	Mpeg4 VideoGuard	India Ku Beam
11510 H	TataSky: History TV18, UTV Movies, UTV Action, Star Gold India, Zee Bollywood, Tata Sky Kids Cinema, Topper TV, NGC, Disney XD, Sony Max, Discovery Kids SEAsia, Movies OK, Zee Cinema Asia, Tata Sky Classic Cinema, & Pictures, Zee Action, Sony BBC Earth, India Ahead, Tata Sky Bollywood Premiere, TataSky Bollywood Premiere HD, Star Movies Select HD, Comedy Central India HD, Colors Infinity, DD News HD, @ Tata Sky Smart Games	32720	2/3	VideoGuard	India Ku Beam
11590 H	TataSky: Star Plus, Star Bharat, Tarang TV, SET India, Sony SAB, Dargal TV, Colors Tamil HD, Star Utsav, Star Sports 3, Sony Pal, DD National, Bindass, Zee Kannada, Zee Anmol, & TV, DD India, Epic, Big Magic, Mazhavil Manorama, Discovery Jeet, Rishtey India, CNBC TV18, ETV AP, Udaya Movies, Zee TV, Gemini Movies, 9X Jhakaas, KTV HD, Sun Music HD, Nick HD+	32720	3/5	Mpeg 4 VideoGuard	India Ku Beam
11630 H	TataSky: Showcase 1, Showcase 4, Animal Planet HD, TLC HD, Sony Pix HD, Tata Sky Marathi Cinema, Gemini HD, Sony Ten1 HD, Zee Cafe HD, Star Sports 1 Hindi HD, CNBC TV18 Prime HD, Star Sports select, 1 HD, Movies Now HD	32720	2/3	VideoGuard	India Ku Beam
11670 H	TataSky: Channel 100, Star Movies, SET India+1, SetMax+1, Colors Gujarati, Fox Life, Bindass Play, & TV HD, Discovery Science, News18 UP, Zoom, Showcase HD1, Star Sports 2, & Pictures HD, Sirripoli, Showcase HD 3, Nat Geo Wild HD, Sony ESPN HD, Asianet HD	32750	3/5	Mpeg4/HD	India Ku Beam
11720 H	TataSky: Star Sports Select 1, Star Sports Select 2, Sansad TV 1, DD Uttar Pradesh, Times Now Navbharat, ET Now, NB News, Foodxp, Shraddha Mh One, Tata Play Aradhana, Sidharth TV, Tata Play Music+, Tata Play NEET Prep, Tata Play ShortsTV, Tata Play Ibaadat, Sansad TV 1, Sansad TV 1, Tata Play Fitness, Anaadi TV, Tata Play Classic Cinema, France 24 English, News 11, Sony BBC Earth, Sadhna News TV, India News Rajasthan, India News Haryana, Colors Infinity, India News Madhya Pradesh/Chhattisgarh, ABP Ganga, Kappa TV, CNBC TV 18 Prime HD	32750	3/5	Mpeg4/HD	India Ku Beam
	TataSky: DD News, Subhavartha TV, Gyandashan 1, DD Arun Prabha, Mirror Now, News State UP & UK, Star Bharat India, Aryan TV National, India Ahead, Network 10, Makkal TV, News 24 MP & Chhattisgarh, Raj News, Colors Cineplex Superhits, DD Rajasthan, Sidharth Bhakti, Tabbar Hits, India Daily Live, Eurosport India, RT News, Jeevan TV, Raj Music				



CHANNEL GUIDE

UPDATED AS OF 1ST JANUARY 2025 FTA = Free To Air • SCR = Scrambled • Radio Channels in Italics

FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
11720 V	Malayalam, ETV Life, Nambikkai TV, Hindi Khabar, CNA Asia, Vedic, News 18, Jammu Kashmir Ladakh Himachal, World Punjabi, DW English, DD Meghalaya, Shraddha Mh One, DD Gimar, Patrika Rajasthan, DD Andaman and Nicobar, 1st India Rajasthan, @ Tata Sky Smart Games	32750	3/5	Mpeg4/HD	India Ku Beam
11760 H	11760 V, 11800 H, 11840 H, 11840 V, 11880 H, 11920 H, 11920 V, 11960 H, 11960 V, 12000 H, 12000 V, 12040 H, 12040 V, 12080 H, 12080 V, 12160 V. For details of channels, SR, FEC etc. please visit https://www.lyngsat.com/G-Sat-10-24-30.html				
ChinaSat 12 at 87.5°E					
4020 V	Polimer, Polimer News, Jothi TV, Tamil Janam	7200	3/4	DVB-S2 8PSK	C Beam
4140 V	Raj TV Network: Raj TV, Raj Digital Plus, Raj News, Raj Musix Tamil, Vissa, Raj Musix Kannada, Raj News Kannada, Raj Musix Telugu, Raj News Telugu, Raj News Malayalam, Raj Musix Malayalam, Raj Pariwar, Raj Nagatchuwai	28800	3/4	DVB-S2	C Beam
12550 H	Zee Cinema	5000	2/3	DVB-S2 8PSK	C Beam
ST2 at 88 deg E: Bom Az 140 EI 61, Bir Az 140 EI 70, DeI Az 158 EI 54, Chennai Az 149 EI 72, Bhopal Az 155 EI 60 Cal Az 181 EI 63					
3629 H	Chunghwa Telecom: TVBS, TVBS News, TVBS Entertainment, Buddha Compassion TV Station	24700	3/4	DVBS2 Mpeg4	Asia Beam
3632 V	Chunghwa Telecom: SET Taiwan, SET Metro, SET News	36000	5/6	Mpeg4 HD	Asia Beam
11050 H	D2H: ETV Telugu, Star Maa Movies, & TV, Surya TV, Sony SAB India, Asianet Movies, Star Maa, Udaya TV, Vijay Super, Vijay Super, Star Sports 1 Telugu, Surya Comedy, Star Sports 1 Tamil, Comedy Active, Sun Life, Gemini Life, Mega Musiq, ETV Cinema, Rangmanch Active, Prarthana TV, Zee 24 Katak, Colors Bangla Cinema, Sansad TV 2, News Time Bangla, Zing Asia, Jinivani Channel	30000	5/6	DVB-S2	India Beam
11164 V	"D2H: Star Sports 1, Star Sports 2, Sony Sports Ten 1, Sony Sports Ten 5, Star Sports 1 Hindi, Sony Max India, National Geographic Wild India, Zee Kannada, Colors Bangla, Saileela TV, Belle Baile, Sun Bangla, Star Sports Select 1, Star Sports 1, Star Sports 2, Star Sports 1 Hindi, D2H promo, Sony Sports Ten 1, Sony Sports Ten 2, Sony Sports Ten 3, Star Sports Select 2, Sony Sports Ten 5, News 24, Sony Aath, DD Sports, Eurosport India, Pravah Picture, Zee Bangla, Star Jaisha, Investigation Discovery India, D2H promo, Star Sports 1 Tamil, Sony Sports Ten 3, TV 5 News, Zee Bioskop, Zee Punjabi, J Movie, Siripoli, Star Sports 3, Star Sports 1 Kannada, Kochu TV, Reporter, Zee Telugu News	44995	3/4	DVB-S2/8PSK	India Beam
11164 H	D2H: Star Plus HD India, Zee TV India, Colors & fix, SET India, Eurosport India, D2H Home HD, Star Plus India, Zee TV India, Colors, Star Bharat India, SET India, Sony SAB India, Colors Gujarat, Colors Ristey Asia, Colors Kannada Cinema, Bindass, Star Utsav, Mh 1, Big Magic, Raj Musix Kannada, DD India, Raj TV, Sony Pal, Zee Anmol, Sri Kannada, CNBC Bajaj, Dish TV promo, & TV, Zee Uttar Pradesh Utrakhand, India Daily Live, Sports 18, 1, ABP Ananda, News 18 Rajasthan, Bhakthi TV, News 18, Jammu Kashmir Ladakh Himachal, Thriller Active, Zee Bangla Cinema, Songdev TV, PTC Punjabi, Zee Punjabi, PTC News, DD National, PTC Chakde, Public Movies, Public Music, Jothi TV, DD Assam, Nepal 1	44995	3/4	DVB-S2/8PSK	India Beam
11483 V	D2H: Sun TV, Sports 18, 1, TLC HD India, Zee Café, Movies Now +, Star Movies HD India, Star Movies Select, National Geographic India, Discovery HD World India, Star Jalsha, KTV, Sun Music, Jaisha Movies, Colors Bangla, Colors Marathi, Star Pravah, Mazhavli Manorama, CNBC TV 18 Prime HD, Star Suvarna, Gemini TV	44995	3/4	DVB-S2/8PSK	K2 Beam
11483 H	D2H: Zee Cinema Asia, Star Bharat India, Animal Planet HD World India, Star Gold HD India, History TV 18, Zee Talkies, Star Gold Select, Sony BBC Earth, Zee Bangla, Zee Marathi, Sony Pix, & pictures, Dish TV promo, Colors Cineplex Superhits, Star Vijay India, Star Sports Select 1, Star Sports Select 2, Sony Sports Ten 2, Colors Infinity, Nickelodeon India, Asianet, & privé HD, Zee Tamil	44995	3/4	DVB-S2/8PSK	K2 Beam
11546 V	D2H: Surya TV, Sun TV, Surya Movies, Asianet Plus, KTV, Adithya TV, Asianet Movies, Zee Pichtar, Goldmines, Zee Yuva, News 18 Bihar & Jharkhand, Udaya TV, Udaya Movies, Zee Kannada, Udaya Music, EZMall, Colors Kannada, News 18 Assam & North-East, DD Punjabi, Star Suvarna, Chutti TV, Udaya Comedy, Star Vijay India, Kids Active Rhymes, Music Active, ETV Plus, Gemini TV, Gemini Comedy, Gemini Music, Mega TV, Zee 24 Ghanta, Sangeet Bangla, Star Maa Music, Jaya TV, Zee Tamil, Zee Telugu, News 18 Madhya Pradesh & Chhattisgarh, DD Kashir, Dhoom Music, ETV Telugu, DD Bihar, Star Maa, Kalaignar TV, Enterr 10 Bangla, Zee Action, India News, Ayushman Active, Star Sports 1 Telugu, Gemini Movies, TV 9 Telugu, ShowBox, Kids Active Toons, ETV Life, Gujarat First, Tarang TV, Tarang Music, Vissa, Colors Odia, Star Maa Movies, News 18 Kannada, Sony Yay!, Topper TV, Sony Wah, EZMall, B4U Movies India, MBC TV, Star Vijay Takkar, Colors Tamil, 9X Tashan, Sadhna TV	44995	3/4	DVB-S2/8PSK	K2 Beam
11546 H	D2H: Shradha Mh One, Aastha India, Sanskar TV, Darshana TV, Aakaash Aath, Raj News Kannada, ABN, Bharat Express, Sansad TV 1, Isai Aruvi, Satsang TV, Vasanth TV, Polimer, Hollywood Indie, Ishara Channel, Puthiya Thalaipurai, Kaarmudy TV, Colors Cineplex, Raj Musix Telugu, Bollywood Hungama, Raj News Telugu, Mazhavli Manorama, Amrita TV, Republic Bangla, Aastha Bhajan India, Asianet News, Polimer News, Kalaignar Murasu TV, DD Malayalam, Star Suvarna, News Tamil 24x7, Peace of Mind TV, Thanthi One, DD Chandana, VAS promo, Madha TV, Filamchi Bhojipuri, Janam TV, Kalaignar Seithgal, HMTV, AKD Calcutta News, Mathrubumi News, DD Yadagiri, Flowers TV, Paras Gold, Zee Classic, Shalom TV India, RT News, Goodness TV, TV 9 Gujarati, Aradana TV, TV 9 Kannada, Ruposhi Bangla, Malai Murasu TV, TV 9 Marathi, Sataam TV, Naaptol Kannada, Nambikkai TV, Sidharth TV, News 18 Tamil, News 18	44995	3/4	DVB-S2/8PSK	india Beam

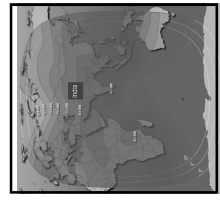


CHANNEL GUIDE

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FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
11609 V	Malayalam, Raj News Malayalam, Raj Musix Malayalam, Bhojipuri Cinema, PTC Music, Recharge Reminder, promo D2H: D2h Home, ABP News India, Aaj Tak, NDTV India, Zee News, News 18 India, India TV, Zindagi Active, Star Movies Select, Zee Café, CNBC Awaaz, Zee Business, Republic TV, Times Now, CNN News 18, India Today, CNN International South Asia, BBC News South Asia, CNBC TV 18, Ishwar Bhakti TV, Zee Rajasthan, ET Now, DD News, Comedy Central India, Zee Bharat, MNX, Star Movies India, Sony Pix, & flix, WION, Movies Now, Mirror Now, Romye Now, D2h promo, D2h Home 2, Telugu Active, NDTV 24x7, Zee Madhya Pradesh Chhattisgarh, Zee Sarthak, Zee Bihar Jharkhand, Colors Super, ABP Asmita, 7S Music, DY 365, Subhavaartha TV, News 18 Gujarati, News Live, News 18 Uttar Pradesh & Uttarakhnad, Dish Buzz, Dish TV, Recharge Reminder, promo	43975	3/4	DVB-S2/8PSK	K2 Beam
11609 H	D2H: Discovery Channel India, History TV 18, National Geographic India, Discovery Science India, Discovery Turbo India, Animal Planet India, National Geographic Wild India, Star Life India, & pictures, Vistara News, Alankar TV, News Nation, Recharge Reminder, promo, Zee Thrill, Star Utsav Movies, B4U Bhojipuri, Zee Zest, CTVN AKD Plus, Sony BBC Earth, Shorts TV Active, Kalinga TV, DD Uttar Pradesh, TLC India, Sony Max India, Zee Cinema Asia, Star Gold India, Star Gold Thrills, Bhakti Active, Star Gold Romance, PTC Simran, Star Gold 2, Cine Active, Evergreen Classics, Movies Active, Zee Bollywood, Jalsha Movies, D2h promo, Chithiram TV, Zee Cinema, Times Now Navbharat, Colors Infinity, Jaya Max, DTamil, Sony Max 2, Epic TV, Kolkata TV, Sun Music, Sun News, Jaya Plus, ETV Andhra Pradesh, Zee Telugu, Zee Cinemalu, Zee Kerala, Star Life India	44995	3/4	DVB-S2/8PSK	K2 Beam
11672 V	D2H: Republic Bharat, Zee Marathi, Colors Marathi, Star Pravah, SVBC Telugu, ABP Majha, Sony Sports Ten 4, Zee 24 Taas, Zee Talkies, Cartoon Network India, Hungama TV, Disney Channel India, Nickelodeon India, Super Hungama, Disney Junior India, Sonic Nickelodeon, Pogo, MTV India, Chintu TV, ETV Bal Bharat, VH1 India, DD Arun Prabha, Zee Anmol Cinema, DD Madhya Pradesh, Shemaroo TV, Zing Home, ETV Abhiruchi, News 18 Bengali, Zing Digital promo, TV 9 Bharatvarsh, ETV Telangana, News 18 Odia, Raj Digital Plus, Star Suvarna Plus, Nick Jr India, 9XM, Power TV, Fitness Active, Discovery Kids India, Women's Active, Zee Kerala, Cooking Active, News 18 Lokmat, MTV Beats, Mega 24, Colors Gujarati Cinema, Zoom, Star Maa Gold, Zee Delhi NCR Haryana, Kushi TV, News 18 Punjab & Haryana & Himachal Pradesh, Zee Anmol Cinema 2, Surya Music, Raj News, Raj Musix Tamil, Star Kiran, Star Sports First, Sony Marathi, Hits Active, Star Gold Select, Shemaroo Marathi Bana, Korean Drama Active	44995	3/4	DVB-S2/8PSK	K2 Beam
11672 H	D2H: DD Tamil, Safar, DD Saplagiri, News 1st, PTC Punjabi Gold, B4U Music India, Saam TV, Puthuyugam TV, Argus News, DD Gimar, DD Sahayadi, DD Bharati, 10 TV, DD Kisan, Kairali News, God TV Asia, V6 News, I News, DD Rajasthan, Sansad TV 2, Public TV, Fakt Marathi, DD Bangla, Rengoni, Pitara, Prameya News 7, Republic Kannada, Tanhathi TV, Jaihind TV, 24 News, D2h promo, Media One, Sakshi TV, Aadinath TV, Shemaroo Umang, Sudarshan News, Chardikla Time TV, Travelpx Tamil, DD Urdu, Kanak News, DD Odia, Sandesh News, Odisha TV, Hindu Dharmam, NTV, We, Danganl 2, JK 24x7 News, Ayush TV, Gubbare, SVBC 2 Tamil, Veilicham TV, Kairali TV, Danganl TV, VTV News, Sathiyam TV, 9X Jhakaas, India News Hanyana, B4U Kadak, Lokshahi Marathi, Sai TV, Ramdhenu, Pratinidhi News, Rang, Gulistan News, Powervision TV, TV 5 Kannada	44995	3/4	DVB-S2/8PSK	K2 Beam
MEASAT 3 / 3A at 91.5 deg E: Bom Az 133 El 59, Bir Az 132 El 67, Del Az 152 El 53, Chennai Az 139 El 70, Bhopal Az 148 El 58, Cal Az 172 El 63					
3706 H	UNTV	7500	2/3	FTA	Global Beam
3960 H	Encompass: SET Asia, SET Middle East, Sony Max Asia, Sony SAB TV Asia, Max Middle East, History Asia, Lifetime Asia, History 2 Asia, Crime + Investigation Asia, Kix, Celestial Movies Indonesia	29700	3/5	Mpeg 4 PowerVu/Conax	Global Beam
4000 H	Encompass: Celestial Movies Asia, Celestial Classic Movies, Motorvision TV, Thrilli, ZooMoo Asia, Celestial Movies Pinoy, Miao Mi, My Cinema Europe, Colors Asia Pacific, Zee Cinema Middle East	29700	3/5	MPEG-4 /HD/ Director / Irdeeto 2	Global Beam
4040 H	Encompass: Rock Entertainment, Rock Action, Rock Action, ZooMoo Asia, Zee TV India, Zee Cinema Asia, & TV, & pictures, Zee Café, Zee Action, Zing Asia, Zee Business, Zee News, Zee Anmol, Zee Bollywood, Zee Classic Sun TV Network: Sun TV (India), KTV (India), Sun News (India), Sun Music, Gemini TV, Gemini Movies, Gemini Comedy, Udaya TV, Udaya Movies, Surya TV, Surya TV, Chutti TV, Kochu TV, Gemini Music, Surya Movies, Gemini Music, Gemini Movies, Udaya TV, Sun Bangla, Sun Marathi, Sun Neo, Sun Neo	29700	3/5	Mpeg4 Viaccess	Global Beam
4080V	Sun TV Network: Kushi TV, Udaya Music, Chintu TV, Adithya TV, Udaya Comedy, Surya Comedy, Surya Music, Sun Life, Gemini Life, Sun TV (India), KTV (India), Sun Music, Gemini TV, Sun Bangla, Sun Marathi	30000	3/4	Mpeg4 Irdeeto	Global Beam
4120V	Globalcast: VoA TV Global, VoA TV Asia, BBC Earth Asia, BBC Lifestyle Asia, CBeebies Asia, Da Vinci Asia, Tech Storm, Bein Sports 2 Southeast Asia, Bein Sports 1 Indonesia, Bein Sports 3 Indonesia, VoA East Timor, Voice of America, VoA Mongolia, Deewa Radio, VoA Dari, VoA Indonesia	29700	5/6	Mpeg4 Viaccess	Global Beam
12276 H	Sun Direct: & flix, & privé HD, Star Sports 2, Star Sports Select HD1, Sony Pix, Star Maa, Udaya TV, Star Bharat India, Colors, Sports 18 1, Colors Infinity, Gemini Music, Gemini Movies, Star Sports Select HD2, Star Movies Select, Asianet, Surya TV, Star Gold India, Star Vijay India, Star Suvarna, DD Punjabi, DD Gimar, DD Bangla, DD Odia	34000	3/4	DVB-S2/ 8PSK/ Irdeeto	S. Asia Beam
12316 H	Sun Direct: NDTV 24x7, Sony Ten 1, Sun TV, KTV, Star Vijay India, Sun Music, Adithya TV, Gemini TV, Gemini Movies, Star Maa TV, Surya TV, Surya Movies, Udaya TV, ETV Telugu, Udaya Movies, Colors, Star Plus India, Zee Tamizh, Sun Direct Promo (fta), Kairali, Sun News, Udaya Music, DD Yadagiri, Mazhavil Manorama, DD National, Discovery Kids,	30000	5/6	MPEG4 Irdeeto 2	S. Asia Beam

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FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
12316V	Public TV, Sakshi TV, & Flix, TV 9 Kannada, Java Plus, DD Chandana, Isai Aruva, Sankara TV Sun Direct promo, WION, Sony Pal, Zoom, DD Kashir, Star Kiran, AKD Calcutta News, CTVN AKD Plus, RT News, ET Now, Kalinga TV, Maiboli, R Plus Gold, Saam TV, Jinvani Channel, Kanak News, Mh 1, Nepal 1, Dhoom Music, News X, Rengoni, Pratidin Time, Pitaara, Jonack, France 24 English, DD Bihar, Alankar TV, Odisha TV, News 18 Lokmat, ABP News India, Peace of Mind TV, PTC Punjabi, Zing Asia, DD India, & TV, Zee Anmol Cinema, ShowBox, B4U Movies India, NDTV India, Bhojpur Cinema, Filamchi Bhojpur, Rang, DD Tripura, News 18 Punjab & Haryana & Himachal Pradesh, TV 9 Gujarati, Disney Junior India, CBeebies Asia, DD Urdu, Khushboo TV, MNX, News 18 Jammu Kashmir Ladakh Himachal, Sidharth Gold, News Nation, Sports 18 3, Dargal TV, Kolkata TV	30000	3/4	MPEG4 Irdeto 2	S. Asia Beam
12436 H	Sun Direct: Sony Yay!, Srippoli, Aakaash Aath, Star Sports 1, Star Sports 1 Hindi, Nandighosha TV, Asianet, India Today, Aaj Tak, Hungama TV, Colors Bangla, National Geographic Wild Asia, Star Sports First, DD Puducherry, Republic Bangla, Sony BBC Earth, Colors Infinity, Romyed Now, Sony Sports Ten 3, Gubbare, News J, Wow Cinema One, Sangeet Bangla, Zee 24 Ghanita, Sony Max India, Vijay Super, Zee Sarthak, Sony Marathi, Zee News, Republic Bharat, Bindass, News 18 Bengali, Zee 24 Taas, Star Utsav Movies, ABP Ganga, KITE VICTERS, Star Sports Select HD2, Colors Bangla Cinema, STV Haryana News, DD Rajasthan	32000	3/4	MPEG4 Irdeto 2	S. Asia Beam
12476 H	SUN Direct: Colors, Sony Sports Ten 1, ET Now Swadesh, & flix, Zee TV India, ABP Asmita, Tarang Music, Star Gold Select, Naaptol Malayalam, Nambikkai TV, Aradana TV, Sharda, Travelxp Tamil, Colors Cineplex, Prarthana TV, Eurosport India, CNN International South Asia, Sangeet Bhojpur, BBC News South Asia, Sonic Nickelodeon, Zee Anmol, Colors Odia, Sony Max 2, Sony Aath, Discovery Science India, Discovery Turbo India, Sangeet Marathi, Star Sports 1 Bangla, Velicham TV, News 18 Bihar & Jharkhand, Jai Maharashtra, Sony Sports Ten 5, MTV Beats, Star Gold 2, CNBC Awaaz, Star Maa Gold, UTV Movies, National Geographic India, Star Sports Select HD1, Star Plus India	32000	5/6	MPEG4 Irdeto 2	S. Asia Beam
GSAT 15/17 at 93.5 deg E: Bom Az 130 EI 57, Bir Az 128 EI 66, Del 148 EI 62, Chennai Az 134 EI 68, Bhopal Az 144 EI 57, Cal Az 167 EI 63					
3711 H	DD Meghalaya	6250	3/4	FTA	India Beam
3721 H	DD Mizoram	6250	3/4	FTA	India Beam
3728 H	DD Tripura	4250	3/4	FTA	India Beam
3734 H	DD Arun Prabha	4250	3/4	FTA	India Beam
3740 H	DD Nagaland	4250	3/4	FTA	India Beam
3830 H	DD Bihar	3330	3/4	FTA	India Beam
3848 H	DD Assam	6250	3/4	FTA	India Beam
3860 H	DD Goa	4250	3/4	FTA	India Beam
3925 H	DD National, DD News, DD India, DD Bharati, DD Bangla, DD Podhigai, DD Yadagiri, DD Port Blair, DD Malayalam, DD Urdu, AIR Vividh Bharati, AIR FM Rainbow Delhi, AIR Hindi, AIR Tamil, AIR Bangla, AIR Port Blair	4250	3/4	FTA	India Beam
3952 H	DD Bangla	27500	3/4	FTA	ECC
3960 H	DD Punjabi	6250	3/4	FTA	India Beam
3970 H	DD Gimar	6250	3/4	FTA	India Beam
3976 H	DD Chandana	3330	3/4	FTA	India Beam
3992 H	DD Odia	6250	3/4	FTA	India Beam
4000 H	DD Kashir	3330	3/4	FTA	India Beam
4008 H	DD Sahvadi	8600	3/4	FTA	India Beam
4032 H	DD Malayalam	6250	3/4	FTA	India Beam
4040 H	DD Yadagiri	6250	3/4	FTA	India Beam
4051 H	DD Podhigai, DD Puduchery	8600	3/4	FTA	India Beam
4060 H	DD Saptagiri	4250	3/4	FTA	India Beam
4072 H	DD Himachal Pradesh	6250	3/4	FTA	India Beam
4074 V	ITV Network: India News Haryana, India News Rajasthan, India News, India News Business, India News Uttar Pradesh, India News MP/CGH, News X, Power TV (India), Gulistan News, India News Punjab, India News Gujarat, Yo TV, NE News, Janta TV, News World, Asian News, (India) News Bangla	12500	8/9	FTA	India Beam
4080 H	DD Rajasthan	6250	3/4	FTA	India Beam
4090H	DD MP	6250	3/4	FTA	India Beam
4098 H	DD UP	6250	3/4	FTA	India Beam
4116 H	DD Manipur	6250	3/4	FTA	India Beam
4122 H	DD Sikkim	4250	3/4	FTA	India Beam
4128 H	DD Jammu	4250	3/4	FTA	India Beam
4150 H	RTA	4000	3/4	FTA	India Beam
4160 H	Popcorn Movies, Swara Sagar, India Superfast, Power TV, Grace TV (India), Studio N News	8444	3/4	MPEG-4/SD	India Beam



CHANNEL GUIDE

UPDATED AS OF 1ST JANUARY 2025 FTA = Free To Air • SCR = Scrambled • Radio Channels in Italics

FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
4176 H	Sadhna News MP/CGH, Living India News, Vip News, World Punjabi, AMV Network, FM News, Har Khabar, Sadhna Plus News, Bhakti Sagar, BVG, Soham TV, News Hour, Enrich TV, TV 24 (India), Daily Post, Lokstahi Marathi, Sadhna Gold	13600 29500	5/6 3/4	MPEG-4/SD Mpeg 4	India Beam India Beam
10970 V	E-Vidya: E-Vidya 1 to 40	29500	3/4	Mpeg 4	India Beam
11010 V	E-Vidya: E-Vidya 41 to 80				
11090 V	Dish TV DTH: DD News, DD National, DD Kisan, 9XM, Nazara, Sun Marathi, ShowBox, DD Gimar, Ishara Channel, Abzy Cool, B4U Bhojpuri, B4U Movies India, Good News Today, Dhanaka Movies B4U, Shemaroo Umang, Zee Ganga, Goldmines Bhojpuri, Manoranjan Prime, AIR News, AIR Telugu, AIR Marathi, AIR Tamil, AIR Vividh Bharati, AIR Rohtak, AIR Vijayawada, AIR Imphal	29500	3/4	Mpeg 4 Conax	India Beam
11090 V	DD FreeDish: DD Free Dish: DD News, DD National, DD Kisan, 9XM, Nazara, Sun Marathi, ShowBox, DD Gimar, B4U Music India, ABP News India, B4U Bhojpuri, B4U Movies India, Good News Today, News 24 (India), Shemaroo Umang, Aaj Tak, All Time Movies, Manoranjan Prime, AIR News, AIR Telugu, AIR Marathi, AIR Tamil, AIR Vividh Bharati, AIR Rohtak, AIR Vijayawada, AIR Imphal	29500	3/4	FTA	India Beam
11130 V	E-Vidya: E-Vidya 81 to 120	29500	3/4	Mpeg 4	India Beam
11170 V	DD FreeDish: Manoranjan Grand, Shemaroo Marathi Bana, DD Podhigai, DD Punjabi, DD Sahyadri, Fakt Marathi, Sports 18 Khe, Sansad TV, Sansad TV, Shemaroo TV, Danggal TV, Bhojpuri Cinema, Zee Biskope, Abzy Cool, Goldmines, The Q, Colors Cineplex Bollywood, Goldmines Bollywood, AIR Gujarati, AIR Panjim, AIR Punjabi, AIR Puducherry, AIR Srinagar, AIR Lucknow, AIR Patna, AIR Bhopal	29500	3/4	Mpeg4 FTA	India Beam
11470 V	DD FreeDish+: Danggal 2, Colors Cineplex Superhits, MoviePlus, Manoranjan Movies, Big Magic, B4U Kadak, Manoranjan TV, TV 9 Bharatvarshi, Aastha India, Filamchi Bhojpuri, Zing Asia, Zee Anmol Cinema, NDTV India, News 24 (India), Enterr 10, Dhinchak 2, Popcorn Movies, Sanskar TV, AIR Kannada, AIR Bangla, AIR Hindi, AIR North East, AIR Dehradun, AIR Port Blair, AIR Jaipur, AIR Gangtok	29500	3/4	MPEG-4/SD	India Beam
11470 H	DD Free Dish: DD Yadagiri, DD Uttar Pradesh, DD Himachal Pradesh, DD Rajasthan, DD Sports, DD Bihar, DD Jharkhand, DD Madhya Pradesh, DD Tripura, DD Chhattisgarh, DD Kashmir, DD Chandana, DD Uttarakhand, DD Saptagiri, DD Malayalam, DD Assam, DD Odia, DD Arun Prabha, DD Bangla, AIR Nagaland, AIR Mizoram, AIR Arunachal, AIR Tripura, AIR Ladakh, AIR Himachal, AIR Jammu, AIR Varanasi	30000	3/5	MPEG-4/SD	India Beam
11510 H	DISH TV: Colors Bangla, Sony Pix, CNBC TV 18, Sony Aaah, News 18 Lokmat, Epic TV, Colors Infinity, Praneya News 7, NT 1, Nepal 1, Channel Diya, Jinvani Channel, News 18 Punjab & Haryana & HP, News 18 Assam & North-East, Jonack, Sandesh News, Sun Bangla, 1 Sports, Hits Active, Lokshahi Marathi, India News Haryana, Ishwar Bhakti TV, D2h Home 1, ET Now Swadesh, Pravati Picture, Naaptol, Star Kiran, R Plus, Hollywood India, Hollywood Hungama, Zing Home, India Daily Live, Cinema TV, Comedy Central India, @ Comedy Active, @ Punjab Active, @ Zindagi Active	29500	3/4	Mpeg 2	India Beam
11510 V	DD Free Dish: Star Utsav Movies, News 18 India, Ishara Channel, Sony Wah, Zee Action, DD India, RT News, Mastiii, Sadhna TV, India TV (India), News Nation, Times Now Navbharat, Republic Bharat, Zee Chitramandir, Zee Punjabi, Zee Anmol Cinema 2, DD Bharati, AIR Raagam, AIR Ranchi, AIR Urdu, AIR Odia, AIR Malayalam, AIR Assamese, AIR Raipur, AIR Shillong	29500	3/4	FTA	India Beam
11550 H	VANDE Gujarat: VANDE Gujarat Channel 1 to 16, Digi Shala 1	29500	3/4	FTA	India Beam
11550 V	DD FreeDish+: DD Yadagiri, DD Uttar Pradesh, DD Rajasthan, DD Sports, DD Bihar, DD Jharkhand, DD Madhya Pradesh, DD Tripura, DD Chhattisgarh, DD Kashmir, DD Chandana, DD Uttarakhand, DD Saptagiri, DD Malayalam, DD Assam, DD Odia, DD Arun Prabha, DD Bangla, RT News, AIR Kohima, AIR Aizawl, AIR Itanagar, AIR Agartala, AIR Leh, AIR Shimla, AIR Jammu, Gyanvani	29500	3/4	FTA	India Beam
11590 H	Dish TV: Star Maa, ETV Telugu, Zee Kannada, Zee Telugu, Asianet News, Animal Planet India, National Geographic India, Hungama TV, Surya TV, TV 9 Kannada, ET Now, News 18 Bihar & Jharkhand, Cine Active, Zee Zest, Star Maa Movies, National Geographic Wild Asia, Kids Active Rhythms, Investigation Discovery India, Maiboli, Sony Yay!, Mirror Now, Topper TV, Sony BBC Earth, Star Sports 3, Colors Gujarati Cinema, Sun TV, Star Sports First, Gyandarsan 1, Ruposhi Bangla, AKD Caicutta News, Balle Balle, Paras Gold, Gujarat First, Bharat Express	29500	2/3	Mpeg 4 Conax	India Beam
11590 V	E-Vidya: E-Vidya 121 to 160	29500	3/4	FTA	India Beam
11630 H	Swayam Prabha: Swayam Prabha 1 to 22, Digi Shala 7 - 24	29500	3/4	FTA	India Beam
11630 V	DD Free Dish: Aastha Bhajan India, Charolika Time TV, DD Goa, DD Haryana, DD News, Sudarshan News, News 18 UP & UK, DD Meghalaya, DD Manipur, DD Nagaland, DD Mizoram, DD India, Bharat 24, VTV News, BTW World, KBS World, DD National, DD Urdu, DD Sports, AIR FM Rainbow Delhi, AIR FM Gold Delhi, AIR Darbhanga, AIR Najibabad, AIR World Service, AIR World Sports, AIR Neighbourhood 1, AIR Neighbourhood 2	30000	3/5	Mpeg4 HD Irdeto	India Beam
11670 H	Digi Shala	29500	3/5	Mpeg 4	India Beam
11670 V	E-Vidya: E-Vidya 161 to 200	29500	3/5	Mpeg 4	India Beam
SES 8 / 9 at 85 deg E-Bom Az 128 El 56, Bir Az 125 El 65, Del Az 146 El 51, Chennai Az 131 El 67, Bhopal Az 141 El 56, Cal Az 163 El 62					
12403 H	Dish TV India: Travelxp HD, Eurosport India, Sports 18 1, Star Gold 2, DD Odia, Vedic, Colors Infinity, Nick HD+, CNBC TV 18 Prime HD, Zee Café, National Geographic India, TLC HD India, Star Movies India, Zee Bangla, Colors Cineplex,	43000	3/4	Conax	India Beam

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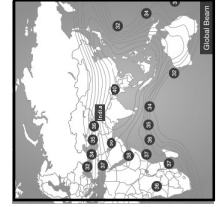


CHANNEL GUIDE

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12464H	Jaisha Movies, Star Jalsha, Star Pravah, Colors Bangla, Colors Marathi, Sony Sports Ten 2, MNX, Movies Now, Times Now Dish TV India, Pogo, TLC India, MTV India, Star Life India, Disney Channel India, Super Hungama, Zoom, Gemini TV, News 18 Madhya Pradesh & Chhattisgarh, Bindass, Tarang TV, News1Time Bangla, Tarang Music, Kolkata TV, Jalsha Movies, Nick Jr India, Disney Junior India, MBC TV, News 18 Bengali, Alankar TV, Sangeet Bhojpur, Dharm Sandesh, Satsang TV, Pitaara, Star Sports Select 1, Star Sports Select 2, Star Gold Select, Sony Marathi, Shubh TV, PTC Simran, PTC Punjabi Gold, PTC Music, Indradhanu TV, TV 9 Bangla, NK TV Plus, Sansad TV 2, Sansad RT 2, News State UP & UK, DD Yadagiri, DD Bihar, DD Kashir, DD Saptagiri, DD Assam, DD Arun Prabha, DD Bangla, RT News, Bharat 24, Saileela TV, Zing Asia, MTV Beats, Comedy Central India, Somic Nickelodeon, Discovery Kids India, @ Cooking Active, @ Kids Active Toon, @ Avushmaan Active, @ Zing+	43000	3/4	Conax	India Beam
12535 V	Dish TV India: & fix, News 18, Jammu Kashmir Ladaakh Himachal, Colors Gujarati, CNN News 18, Star Movies India, Times Now, Zee Business, NDTV 24x7, Sangeet Bangla, News Live, Aljazeera English, Movies Now, @ Kids Active Rhymes, Star Sports 2, CNBC Bajar, India Today, Zee Yuva, News 18 Live, Zee Eurosport India, Colors Cineplex, Sun TV, @ Korean Drama Active, Hare Krishna TV, Gubbare, NorthEast Live, Zee Classic, Republic Bangla, CTVN, AKD Plus, News Daily 24, Khushboo TV Bangla, Rongeen TV, ETV Bal Bharat, Punjabi Hits, DD Sports, Zee Anmol, Sony Pal, Entier 10 Bangla, Sidharth TV, Sidharth Bhakti, Sidharth Gold, Jay Jagannath, Santvani Channel, Star Movies Select, Zee Bharat, Sony Pix, Animal Planet India, National Geographic Wild India, Sony BBC Earth	43200	3/4	FTA / Conax	India Beam
12595 V	Dish TV India: Dish Buzz, Pravah Picture, Star Kiran, DD Uttar Pradesh, Star Movies Select, Sony Max India, Star Life India, SET India, MTV Beats, & TV, Zee Cinema Asia, & fix, Movies Now + Colors, History TV 18, Star Plus India, Zee Marathi, Zee Talkies, Star Gold Select, Disney International HD, Sony Sports Ten 3	40700	3/4	FTA / Conax	India Beam
12647 H	Dish TV India: Zee TV India, Zee Bangla, Star Sports 1, SET India, Sony Max India, Sony Sports Ten 1, Star Plus India, Star Gold India, Zee Cinema Asia, Sony Sports Ten 2, Star Sports 1 Hindi, Colors, Star Jalsha, Sony Sports Ten 3, Sony Sports Ten 5, & pictures, WION, Music India, Bflix Movies, Colors Rishtey Asia, Star Utsav, Tabbar Hits, News X, Sun Marathi, NB News, @ Ibadat Active, @ Shorts TV Active	30000	3/4	FTA / Conax	India Beam
12688 H	Dish TV India: Zee Cafe, Zee Bollywood, VHT India, CNBC Awaaz, Discovery Channel India, CNN International South Asia, News 18 Rajasthan, Saam TV, Discovery Science Southeast Asia, Discovery Turbo India, Praticin Time, History TV 18, Star Gold 2, Romyed Now, Sony Max 2, 9X Jhakaas, Kalinga TV, BBC News South Asia, Zee Cinematu, Dish Buzz 2, News 18 Odia, MNX, Assam Talks, Dhoom Music, France 24 English, Ramdhenu, Republic TV, Gulistan News, Peace of Mind TV, Argus News, Star Gold Romance, Colors Bangla Cinema, Spondon, DD Rajasthan, Sports 18 3, News 18 India, @ Movie Active, @ Bhakti Active, @ Evergreen Classics Active, @ Fitness Active, @ Thriller Active, @ Rangmanch Active, @ Women's Active	32000	3/4	Conax	India Beam
12688 V	Dish TV India: Dish Buzz, Dish TV Smart+ promo, 9X Jhakaas, Zero Day FS promo, Zing Home, Kalinga TV, Nandighosha TV, IBC 24, DD Madhya Pradesh, DD Chandana, DD Malayalam, DD Sports	27500	5/6	Conax	India Beam
12729 V	Dish TV India: Zee Marathi, Zee 24 Ghanta, Colors Odia, Colors Marathi, Sony SAB India, Nickelodeon India, Star Bharat India, Zee Talkies, Carroton Network India, Odisha TV, PTC Punjab, Star Pravah, ABP Majha, ABP Ananda, DY 365, TV 9 Gujarati, Rang, Prarthana TV, Zee Sarthak, Zee Bangla Cinema, PTC News, Prag News, Rengoni, Kanak News, TV 9 Marathi, 9X Tashan, & TV, ABP Asmita, PTC Chakde, Aakaash Aath, Songdew TV, Sports 18 1, Zee 24 Kalak, Zee 24 Taas, Zee Bihar Jharkhand, Zee Madhya Pradesh Chhattisgarh, Zee Delhi NCR Haryana, Zee Punjab Haryana Himachal, Zee Rajasthan, Zee Salaam, Zee Uttar Pradesh Uttarakhnad	32700	3/4	Conax	India Beam
12729H	Dish TV India: Disney Channel India, Star Sports 1 Hindi, Sony Sports Ten 5, Sony SAB India, Star Sports 1, Star Sports 2, Zee TV India, Discovery Channel India, & pictures, Sony Sports Ten 1, Star Bharat India, Star Gold India, Star Sports Select 1, Star Sports Select 2, & privé HD	32000	3/4	Conax	India Beam
ASIASAT 5 at 100.5 deg E: Bom Az 121 EI 51, Bir Az 117 EI 59, Del 138 EI 47, Chennai Az 121 EI 62, Bhopal Az 133 EI 52, Cal Az 151 EI 60					
3726 V	Macau Satellite TV, Macau Asia Satellite TV	6666	3/4	FTA	Asia Beam
3784 H	TDM Macau Satellite	3255	3/4	FTA	Asia Beam
3860 V	EBU: Premier League TV, Rai Italia Asia, Vatican Media, RTP Internacional Asia, RDP Antena 1, RDP Internacional Timor	30000	3/4	MPEG-4/SD	Asia Beam
3960 H	SES: The Word Network, Cubavisión Internacional, Reuters Live, Luxe TV, Daystar TV (SES feeds), Yemen TV, Radio Sana'a	30000	5/6	FTA / Irdeto	Asia Beam
4020 V	Star Gold HD India, Star Plus HD, Star Bharat HD, Star World HD, Star Movies HD, Star Sports 1 HD, Star Sports 2 HD	28100	3/4	Mpeg 4	Asia Beam
4040 H	Dubai TV International, France 24 English, France 24 English, France 24 Français, TV5Monde Style HD, TV5Monde Asia, TV5Monde Pacificque, TVE Internacional Asia, RFI Français, RFI Cambodia	29720	5/6	Mpeg 4 Irdeto 2	Asia Beam
4080 H	GlobeCast: Alarabiya, Saudi TV, Oman TV, Ekbariya TV, KTV 1 (Kuwait), Sunna TV (Saudi Arabia), Sudan TV, Sharjah TV, Quran TV (Saudi Arabia), Libya Al Wataniya, Qatar TV, Abu Dhabi TV Europe, Penviy kanal Asia, Katyusha, Belarus 24, EuroNews English, Holy Quran Radio (Oman), Radio Oman, Riyadh Radio, Quran Radio (Saudi Arabia), Sharjah Radio, Sudan Radio, Holy Quran Radio (Sudan), Kuwait Radio One, AlQuran Alkarem, Jeddah Radio, Saudia Radio	30000	5/6	Mpeg 4 HD	Asia Beam
12301 V	Madani Channel Urdu	2916	3/4	Mpeg 4	South Asia Beam

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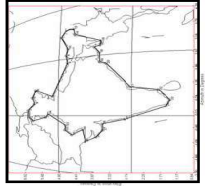


CHANNEL GUIDE

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FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
ASIASAT 7 at 105.5 deg E: Bom Az 116 EI 46, Bir Az 112 EI 54, Del 131 EI 44, Chennai Az 115 EI 57, Bhopal Az 127 EI 48, Cal Az 141 EI 57					
3639 H	Himalaya TV	2915	3/4	MPEG-4/HD	Asia Beam
3652 V	Sahara One, Samay, Samay Rajasthan, Samay Maharashtra / Gujarat, Samay UP, Samay Bihar, Aalami Samay, Samay MP, Filmy, Firangi	14100	3/4	FTA	Asia Beam
3663 V	Afghan TV (Pakistan), Total Sports, Prime Movies HD, Movies2Day, Pilaara, Jan HD, Star Max, Me TV Entertainment, Movie Live, TV 99 News HD, BTV, Mehak Malik Dance, Shahi TV	3333 2993	3/4 3/4	FTA FTA	Asia Beam Asia Beam
3668 V	Jesus Christ TV Pakistan	5000	3/5	FTA	Asia Beam
3675 V	Ritmu TV	15000	3/4	MPEG-4/SD	Asia Beam
3709 V	Colors Bangla, Colors Cinema, MTV Beats, VH1 India, Colors Infinity, Comedy Central India, Colors, Colors Rishrey Asia, Nickelodeon India, Nick Jr Asia, History TV 18, Sonic Nickelodeon, MTV India	8167	3/4	FTA / Irdeto	Asia Beam
3715 H	Xing Kong China, Channel V China, Xing Kong HK (scr)	8165	2/3	Mpeg 4 Irdeto	Asia Beam
3725 H	ABP: ABP Ananda, ABP Majha, ABP Asmita, ABP Sanjha (scr)	6500	2/3	MPEG-4	Asia Beam
3734 H	Channel NewsAsia HD	4166	3/5	MPEG-4/HD	Asia Beam
3736 V	NTV Itahari	4166	3/5	MPEG-4/HD	Asia Beam
3740 V	NTV Kohalpur	12500	3/5	MPEG-4/HD	Asia Beam
3750 V	Nepal TV: NTV Plus, NTV News, NTV National	26000	7/8	FTA/MPEG-4/SD	Asia Beam
3760 H	MTA 6 Asia, TV 5 Monde Asie, Aheibat TV Networks, TVN Asia	27500	3/4	Conax / FTA	Asia Beam
3820 V	Zee Network	29720	5/6	Irdeto	Asia Beam
3840 H	Fox Networks Group	28100	3/4	Videoguard	Asia Beam
3860 V	STAR TV	29720	3/5	MPEG 4 / FTA	Asia Beam
3880 H	AsiaSat:Vision TV, Pak 7 Kids, Revival TV (USA), Gawahi TV, Barkat TV, PMI TV, CTN (Pakistan), Mission Asia, Fazal TV, Eternal Life TV Network, Joshua TV (Pakistan), Shine Star TV, King TV (Pakistan), Royal Thai Lotto, HK TV, Abundant Life TV, Joo Music (Pakistan), Good Shepherd TV, Love of Jesus TV, Grace Network, Praise TV (Pakistan)	11837 7250	3/4 3/4	Mpeg 4 Conax Mpeg 4 Conax	Asia Beam Asia Beam
3890 V	Zee Network: Big Magic, Big Ganga, Zee Bioscope, Big Thrill, & Xplor HD, Big Ganga Talkies, Big Magic Punjab	29720	3/4	Mpeg 4	C Beam
3902 V	Zee Network	28100	3/4	Mpeg 4	C Beam
3920 H	STAR TV	30000	5/6	MPEG-4/ HD DigiCipher	Asia Beam
3940 V	STAR TV	28100	3/4	FTA	Asia Beam
3960 H	Turner International Asia: Cartoon Network Asia, Warner TV Southeast Asia, Warner TV Philippines, Cartoon Network India, CNN International Asia Pacific, Cartoon Network Asia, Cartoon Network Taiwan, Cartoon Network Philippines, Cartoon Network Pakistan, CNN International Asia Pacific, CNN International Asia Pacific, HLN International	28100	3/4	Videoguard	Asia Beam
3980 V	STAR TV	28100	3/4	Videoguard	Asia Beam
4000 H	STAR TV	28100	3/4	Videoguard	Asia Beam
4020 V	STAR TV	29720	3/4	Nagravision	Asia Beam
4040 H	STAR TV	29720	3/4	MPEG-4/HD	Asia Beam
4080 H	AsiaSat: Thainess TV, Aljazeera Channel, Fox Business, NHK World Premium, Thai PBS 3, YTN, Planet Fun, Cinemachi Docu, Party's, Cinemachi Max, Flame	29720	5/6	Mpeg 4, Conax / Irdeto2 / FTA	Asia Beam
4100 V	AsiaSat: DW English, B4U Movies Asia Pacific, Bloomberg TV Asia, Aljazeera English, NHK World Japan, TRT World, DW Deutsch, DW English, VB Jade, B4U HitZ, B4U Plus, B4U Movies India, B4U Music India, Fox News Channel	27500	7/8	FTA Irdeto	Asia Beam
4120 H	Phoenix New Media: Phoenix InfoNews Channel, Phoenix Chinese Channel, Phoenix Hong Kong, Phoenix InfoNews Channel, Phoenix Chinese Channel, Phoenix Movies Channel	27500	3/4	FTA / Conax	Asia Beam
4140 V	Zee Network: Zing Asia (fta), Zee News (fta), Zee Punjab Haryana HP (fta), Zee MP/Chattisgarh	8165	2/3	Mpeg4 Irdeto	C Beam
4156 H	ABP Ganga, ABP News India HD, ABP Nadu, ABP Desam	3167	2/3	Mpeg 4 FTA	C Beam
4176 H	ABP News India	30000	3/4	Mpeg \$ PowerVu	Asia Beam
4180 V	Sony Pix South Asia, Sony BBC Earth, Sony Yav1, Ten Sports Pakistan, SET India HD, Sony Pix HD, Sony Max HD, Sony SAB TV HD, Sony BBC Earth HD, Sony Ten 1 HD				
SES 7 / 9, Telkom 4 at 108.2 Deg East : Bom Az 114 EI 44, Bir Az 110 EI 52, Del 129 EI 42, Chennai Az 113 EI 54, Bhopal Az 124 EI 46, Cal Az 137 EI 55					
11483 H	Airtel DTH: Travelxp Tamil, Channel Diya, News 18 Odia, Gemini Movies, Gemini TV, 9X Tashan, Star Sports 1 Hindi, Star Maa Music, Jaya TV, Star Bharat India, Gemini Comedy, 10 TV, Kushi TV, Sakshi TV, Star Maa Movies, ABN, ETV Telangana, Subhavartha TV, Star Maa Gold, TV 5 News, V6 News, TV 9 Telugu, Jaya Max, Polimer, Star Suvarna, Rengoni, Prag News, Ramdhenu, Nepal 1, Bhakthi TV, News Live, Rang, ETV Telugu, T News, SVBC, ETV Andhra Pradesh, News J, India News Uttar Pradesh, India News Haryana	28800	3/4	Mpeg 4 DVB S2	South Asia Beam
11520 V	Airtel DTH: Makal TV Shradha Mh One, DD Sports, Udaya Music, Indivision, Sony Ten 2, News 18 Rajasthan, CNBC Awaaz, NDTV Profit, NDTV Prime, Akkaash Aath, Tarang Music, Home Shop, Star Bharat India, Hungama TV, Comedy Central India, National Geographic India, History TV 18, Zee Cafe, Chardikla Time TV, Star Sports 1	30000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam

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CHANNEL GUIDE

UPDATED AS OF 1ST JANUARY 2025 FTA = Free To Air • SCR = Scrambled • Radio Channels in Italics

FREQ/POL	CHANNEL	SR	FEC	FREE / SCRAM	NOTES
11520 H	Classic, Filmy, Kiran TV, Star Utsav, Mazhavil Manorama, Puthiya Thalamurai, Sun Music, RT News, Airtel Movies 1, Airtel Movies 2, Gemini Movies, Nepal 1, UTV Action, Zee Talkies, SVBC, DY 365, DD Ginar, @ Idrharshan	30000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
11560 V	Airtel DTH: TV 9 Telugu, Disney Channel India, CNBC TV 18, Star World India, Times Now, Colors Bangla, Colors Marathi, Kasthuri TV, Discovery Channel India, Animal Planet India, News 18 India, Aastha India, Jaya TV, Asianet Plus, Star Jalsha, Nickelodeon India, Isai Aruvi, Sony Aath, Neo Prime, Star Sports 1, MTV India, Zoom, Bindass, Star Suvarna, Sony Ten 3, Polimer, PTC News, Zee Cinema Asia, Sanskar TV	30000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
11560 H	Airtel DTH: Mh 1 News, News 18 Urdu, Saam TV, PTC Chakde, Asianet News, Zee Kannada, Jaya Plus, Fashion TV India, Tarang TV, Adithya TV, Siripolli, Pogo, Sangeet Bangla, ETV Andhra Pradesh, Surya TV, 9XM, Rang, Sun News, Mastiii, We, ET Now, ABP Ananda, Sahara One, Kalaignar TV, Zee Bangla, Sony Ten 1, Travel Trendz TV, @ IKidsworld	30000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
11600 V	Airtel DTH: Manorama News South, ABP Majha, & fix, TV 9 Kannada, Zee 24 Ghanta, Zee Punjabi Haryana Himachal, Gemini Comedy, TV 9 Gujarati, News 18 Lokmat, Enterr 10, NTV, NDTV India, CNN News 18, SET India, News Live, Gemini Music, PTC Punjabi, Jaya Max, Chutti TV, India Today, Neo Sports, Odisha TV, B4U Music India, News 24, Udaya Movies, Amrita TV, Colors Odia, News 18 Bihar & Jharkhand, Raji TV, Rupasi Bangla	30000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
11600 H	Airtel DTH: Captain TV, Day & Night News, E 24, India News, Live India, TV 5 News, Bhakthi TV, Paras TV, Sadhna TV, Star Suvarna, Vasanth TV, Discovery Science India, Discovery Turbo India, Udaya Comedy, Movies Now, BBC Entertainment India, CBeebies Asia, Superhit, Kolkata TV, Airtel Movies 3, Star Maa Music, Airtel Recharge Info Channel, Star Gold Hit, Food Food, Telebrands India, News X, @ IKidsworld, @ IExam, @ Gamezone	30000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
11640 V	Airtel DTH: Star Plus HD India, Star Gold HD India, Star World HD India, Star Movies HD India, UTV Action Telugu, Lok Sabha TV, Raiya Sabha TV, DD Bharati, Gyanthara, Colors, Disha TV, Movies Now, Discovery HD World India	30000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
11640 H	Airtel DTH: Star Sports 2, Sontic Nickelodeon, Bindass Play, Janasri News, Zee TV India, Danggal TV, Frontier TV, Zee Salaam, Zee Tamil, Star Gold 2, Cinema TV, STV Samachar, Zee Sathak, Asianet Movies, Nat Geo Wild Asia, Zee Action	24000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
11680 V	Airtel DTH: India TV, Zoom, Public TV, News 18 Punjabi & Haryana & Himachal Pradesh, Colors Rishiy Asia, Disney Junior India, Sandesh News, Prarthana TV, Colors Infinity, Mirror Now, Colors Kannada, Colors Bangla, Colors Marathi, Zee 24 Taas, Colors Cineplex, TV 9 Gujarati, Udaya Movies, Udaya Music, Udaya TV, Bansal News, Colors, DD Punjabi, Lok Sabha TV, DD Bangla, Fox Life India, News 1 India, Colors Bangla Cinema, Sony Pix, Shemaroo TV, News 1st, VH1 India, B4U Movies India, Fox Life India, DD Podhigai, News 18 Madhya Pradesh & Chhattisgarh, DD Malayalam	32700	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
11680 H	Airtel DTH: Om Shakti, Sony Max India, Asianet, Star Sports 1, Star Sports 2, Star Sports Select HD2, & privé HD, & TV, Gemini TV, Sun Music, Sun TV, Comedy Central India, Colors Cineplex, News Time Bangla, Zee Anmol, Eurosport India, CNN International South Asia, Sony SAB TV India	32700	3/4	Mpeg 4 DVB S2 8psk Videoguard Mpeg 4 DVB S2	South Asia Beam South Asia Beam
12281 H	Airtel	45000	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
12281 V	Dishum TV, Zee 24 Kalak, Naaptol Kannada, Naaptol Tamil, Naaptol Malayalam, Wow Cinema One, Naaptol Telugu, Piteara, DD Chandana, ABP Asmita, Epic TV, Cinema TV, DD Madhya Pradesh, Northeast Live, Sarv Dharan Sangam, 1st India, Peace of Mind TV, Disney Stories, Fitness Studio, Hamar Canima, Zee Bihar Jharkhand, DD Manipur, Fashion TV India, ABP News India, Colors Kannada Cinema, Let's Dance, Star Sports 1 Telugu, Punjabi Tadka, Telugu Talkies, ABP Ganga, Public Movies, Jan TV, Nandighosha TV, Zee Thirai, Zee Punjabi, Shemaroo Marathi Bana, Manjari TV, Zee Picchar, Airtel Toons, Sadabhar Hitz, Santvani Channel, Danggal Kannada, 1 Sports, Zee Tamil	43700	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
12341 H	DD Himachal Pradesh, KITE VICTERS, DD Arun Prabha, DD Sahyadri, Filamchi, Ishwar Bhakti TV, Network 10, CBeebies Asia, T-Sat Vidya, T-Sat Nipuna, Star Maa Movies, UTV HD, Star Maa, Kalvi TV, Zeplex Screen 2, Vasanth TV, NK TV 24x7, Zee Telugu, Cartoon Network HD+	45000	3/4	Mpeg 4 DVB S2 8psk Videoguard Mpeg 4 DVB S2	South Asia Beam South Asia Beam
12341 V	Airtel	43700	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
12591 V	Shubhsandesh TV, ETV Abhiruchi, Ate TV, Anjan TV, Astrovaani, Comedy Galii, Goodnews TV, Zing Asia, Colors Tamil, Sony Wah, Eurosport India, Zee Uttar Pradesh Uttarakhnad, DD Ginar, DD India, Gyandashan, Star Utsav Movies, Zee Tamil, Zee Cinemalu, Sony Marathi, Baile Baile Republic Bharat, Star Sports 1 Bangla, Spotlight, Star Gold Select, Living India News, Zee Bioskop, Good Life, Zeplex Screen 2, Airtel Korean TV, Akash Edu TV JEE, Aakash Edu TV NEET, TV5Monde Asie, MBOC TV, Samay UP/Uttarakhand, Jai Maharashtra, Zeplex Screen 1, Zeplex Screen 1	43700	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
12651 V	K News India, Kalaignar Muralu TV, Safari, DD Rajasthan, DD Uttar Pradesh, DD Odia, DD Assam, Dhoom Music, Goodbox TV, Kaarmudy TV, Powervision TV, Colors Gujarati Cinema, Mazhavil Manorama, Movies Now, Colors Tamil, ShowBox, Teheeze TV, B4U Kadak, KTV, Shubb TV, Gemini Music, JK 24x7 News, News Slate UP & UK, INH 24x7, A1 TV, Music Zone, India Ahead, Lokshahi News, Samay National, Samay Bihar/Jharkhand, Samay MP/Chhattisgarh, Samay Rajasthan, TV 9 Bangla, Dhinchak, News Daily 24	43700	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam
12711 H	Zee Marathi, Zee Talkies, Animal Planet India, Sony BBC Earth, Times Now World, Sony Ten 2, Sony Ten 3, Star Gold Select, Zee Keralam, National Geographic Wild Asia, Sony SAB TV India, Zee Bangla, Star Vijay India	45000	3/4	Mpeg 4 8psk Videoguard	South Asia Beam
12711 V	Udaya TV, Surya TV, Aaj Tak, Sun Bangla, TV 9 Bharatvarsh, Jonaak, News 18 Bihar & Jharkhand, News 18 Uttar Pradesh & Uttarakhnad, News 18 Urdu, News 18 Assam & North-East, News 18 Rajasthan, Assam Talks, Madha TV, Disney International HD, Enterr 10 Bangla, Shradha Mh One, Movies Now +, Nick HD+, Aaseevatham TV, UTV Action, Surya Comedy, B4U Bhojpuri, Grace TV, History TV 18, PTC Music, Darshana TV, Vendhar TV, Mercy TV, ETV Bai Bharat	43700	3/4	Mpeg 4 DVB S2 8psk Videoguard	South Asia Beam

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EDITOR'S SCATVIEW

The much heralded 'SCAT India Trade Show 2024' is all set to open this month from October 17-19, 2024 at the Jio World Convention Centre in Mumbai. This show holds a significant place in the evolution of India's cable and satellite television industry.

EDITOR'S SCATVIEW

Securing cable TV and broadband infrastructure has become a critical priority for both service providers and national governments. The increasing reliance on these services for entertainment, communication, and business means that any disruption or breach could have far-reaching consequences.

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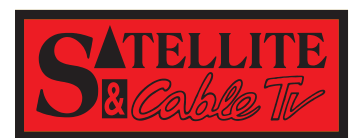
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