

Jus Corpus Law Journal

Open Access Law Journal – Copyright © 2023 – ISSN 2582-7820 Editor-in-Chief – Prof. (Dr.) Rhishikesh Dave; Publisher – Ayush Pandey

This is an Open Access article distributed under the terms of the Creative Commons Attribution-Non-Commercial-Share Alike 4.0 International (CC-BY-NC-SA 4.0) License, which permits unrestricted non-commercial use, distribution, and reproduction in any medium provided the original work is properly cited.

The Landscape of VPN Rule in India: Understanding the Legal and Regulatory Framework

R D Brahm Prakash Meena^a

^aDr. BR Ambedkar National Law University, Sonipat, India

Received 29 July 2023; Accepted 15 August 2023; Published 19 August 2023

Virtual Private Networks are very prevalent in India given that they improve internet security, privacy, and accessibility to georestricted material, due to this the government's concerns about the growing popularity of VPNs have increased as a result, the adoption of an array of legislative and regulatory restrictions on VPN in India. This article examines the VPN laws in India and offers details on the legislative and regulatory framework governing VPN usage. Moreover, the article investigates and analyses the justifications for VPN restrictions in India, including worries about national security, cybercrimes, the protection of intellectual property, and content control. It explores how VPN rules affect internet freedom and analyzes the difficulties in striking a balance between public safety and private privacy concerns. Case studies show situations in which VPNs were used for nefarious purposes to get around regional internet service limits, commit illegal activity, and access geo-restricted material. These incidents show the difficulties that governments have when attempting to regulate VPN usage and enforce internet shutdowns. The article concludes with suggestions for the future, focusing on global collaboration, open policies, and ethical data practices. It is advised to take a proportionate and focused approach to VPN laws, separating possible abuse for illicit purposes from lawful ones. Policymakers should also support public education and awareness initiatives to provide consumers with the information they need to choose a VPN wisely. To successfully negotiate the challenges of striking a balance between security, privacy, and internet openness, it is crucial to comprehend the legal and regulatory structure of VPN legislation in India. Comprehensive knowledge of VPN rules will help policymakers, businesses, and internet users adjust to the rapidly shifting digital environment while maintaining personal freedoms and national interests. To create a future digital environment that is both inclusive and safe, cooperation is crucial.

Keywords: vpn regulations, cyber security, restricted content, data protection.

INTRODUCTION

In Today's Digital age, which is inter-connected and driven by the internet, VPN which stands for Virtual Private Networks has emerged as a crucial tool to safeguard the online privacy of users, enhance cyber security, and access unrestricted content. In India, a country that boasts a vast and diverse digital landscape, the adoption of VPN has mirrored global trends, as millions of users seek protection from cyber threats and aspire for unrestricted access to the World Wide Web. India is a country with one of the world's largest and most dynamic online populations and the rise of VPN usage has mirrored global trends. Now most people in Indians are using VPNs to protect their sensitive data from cyber threats and enjoy the freedom to access geoblocked content from across the globe, As the popularity of VPNs has increased, so too have the concerns of governments regarding the potential misuse of this technology.

As the use of VPNs has surged, governments around the world, including India, are trying to tackle the dual challenges of securing their national interests and addressing potential security risks associated with VPN usage. The regulatory framework governing VPN in India is an evolving landscape, shaped interplay of legal provisions, technological advancements, and policy considerations. The Indian government seeks to strike a balance between safeguarding the nation's security and preserving the privacy and digital rights of Individuals.

This article delves into VPN rules in India, offering a comprehensive understanding of the legal framework, and the impact they have on internet users and businesses in the country. By examining the rationale or reason and implications of these rules, we aim to shed light on the broader implications for the digital landscape, individual freedoms, and the business environment in India. This article also provides insight into the legal framework governing VPN in India, examining key statutes, such as the Information Technology Act 2000. And will present case studies of specific incidents where VPN usage has led to legal actions, and security breaches which will illustrate the practical implications of VPN regulations.

UNDERSTANDING VPN: HOW DO THEY WORK?

'VPN' stands for 'Virtual Private Networks'. VPN is defined as 'a technology that allows its users to create a secure and encrypted connection to the internet or another private network'.¹ By using a VPN, users can access the internet through a server provided by the VPN provider, and this helps in effectively hiding or masking their IP address and encrypting their internet so that users can stay anonymous while using an unknown and unsafe internet.

The user's data is turned into code with the encryption process, rendering it unintelligible to outsiders. In addition, VPN providers use a method known as 'tunneling' to establish a secure channel for data transmission in this process user data is transported to the VPN server via the internet in an encrypted 'tunnel' that is secured. The 'tunnel' protects users' information from hackers, cybercriminals, and other individuals who might try to access or intercept it². VPN also provides users with the option to mask real IP addresses by substituting the user's IP address with the VPN server's IP address, making it more difficult for websites and online services to monitor users' real-time location of access and online activities. Users can bypass georestrictions and access content and services that might be banned or restricted in the user's present location by connecting to a VPN server that is in a different country. A VPN offers a crucial layer of privacy and security, ensuring users have a safer and more private online experience whether they are using public Wi-Fi or browsing the internet at home³.

THE LEGAL FRAMEWORKS FOR VPN IN INDIA

Here are some essential components of India's legal system regarding VPNs:

Information Technology Act, 2000 (IT Act): The Information Technology Act 2000⁴, Act was passed by the Indian parliament on 9 May 2000 and came into effect on 17 October 2000. It is a comprehensive legislation and forms the backbone of Indian electronic governance, cyber

<<u>https://scholarlyoa.com/use-vpn-for-playing-at-wildcasino/</u>> accessed 21 July 2023

¹ Esha Gupta, '10 VPN Services you should consider in 2023' (*Geeks for Geeks*, 22 May 2023) https://www.geeksforgeeks.org/10-vpn-services-you-should-consider/> accessed 21 July 2023

² Ronhib McGonnaghal, 'Is It Safe To Use A VPN For Playing At Wildcasino?' (*SCHOLARLYOA*, 30 May 2023)

³ Gupta (n 3)

⁴ Information Technology Act 2000

security, and data protection. The Act outlines several offences involving the violation of an individual's data and privacy as well as their associated consequences. Additionally, it discusses middlemen and controls the influence of social media. The government decided to restrict social media activity and data held there since even material linked to the security and integrity of the nation was not secure. The article outlines the goals and characteristics of the Act and lists the numerous offenses and associated penalties as set down in the Act. With the advancement of technology and e-commerce, there has been a tremendous increase in cybercrimes and offenses related to data and authentic information raising concerns for the Indian government.⁵

Data Protection Laws (Personal Data Protection Bill): The Personal Data Protection Bill, is a comprehensive data protection law which is not finalized yet in India. The groundwork for this law was set by the Supreme Court decision in the case Of 'Justice K. S. Puttuswamy (Retd.) and Anr. v Union Of India And Ors'⁶, which was decided in August 2017 establishing privacy as a fundamental right.⁷ A 10-member committee, the Srikrishna Committee, headed by retired Supreme Court judge B.N. Srikrishna, was established around the same time in July 2017 to investigate the need for a data protection law in India and to develop a framework for the Personal Data Protection Bill As a result, 'The Personal Data Protection Bill 2019'⁸ was produced.⁹ In addition to this bill, India recently produced a draft of The Digital Personal Data Protection Bill 2022¹⁰, this legislation aims to safeguard the privacy and protection of personal data, including data processed through VPN. The Personal Data Protection Bill established some guidelines for the collection, storage, and processing of personal data, imposing stricter obligations on companies handling such data, including VPN service providers.

⁵ Monesh Mehndiratta, 'Information Technology Act, 2000' (*iPleaders*, 24 August 2022)

<<u>https://blog.ipleaders.in/information-technology-act-2000/</u>> accessed 21 July 2023

⁶ Justice K. S. Puttuswamy (Retd.) and Anr v Union of India and Ors (2017) 10 SCC 1

⁷ Abhijit Ahaskar, 'India's Data Protection Bill: A timeline of everything so far' (*TechCircle*, 29 November 2021) <<u>https://www.techcircle.in/2021/11/29/india-s-data-protection-bill-a-timeline-of-everything-so-far</u>> accessed 21 July 2023

⁸ Personal Data Protection Bill 2019

⁹ Ahaskar (n 7)

¹⁰ Digital Personal Data Protection Bill 2022

INDIAN COMPUTER EMERGENCY RESPONSE TEAM (CERT-IN)

CERT-In is an Indian Cyber Community responsible for handling and responding to cyber security incidents and a functional organization of 'the Ministry of Electronics and Information Technology, Government of India'¹¹. It was established in January 2004 by the Department of Information Technology to implement the provisions of 'the Information Technology Amendment Act 2008'¹².

It functions under Section 70B, Information Technology Act, 2000¹³ and its main objective is to bolster the nation's cyber resilience. It actively collects, analyzes, and disseminates information on cyber incidents, enabling a profound understanding of emerging threats. Through timely forecasts and alerts, CERT-In empowers stakeholders to stay vigilant against potential cyber-attacks. In the face of cyber emergencies, CERT-In swiftly implements emergency measures to contain and mitigate the impact of security incidents, safeguarding critical digital assets. The agency plays a pivotal role in coordinating cyber incident response activities and fostering collaboration among diverse stakeholders for a unified defense. Additionally, CERT-In issues vital guidelines, advisories, vulnerability notes, and whitepapers, promoting information security best practices, procedures, and effective response and reporting protocols for cyber incidents.¹⁴

In India, VPN usage has grown drastically in the last 3 years, According to data from AtlasVPN's VPN adoption Index, more than 270 million VPN users, or around 20% of the total population in the world found in India in 2021.¹⁵ In the first six months of 2021, 25.27% of smartphone users used a VPN, up from 3.28% of the population in 2020, according to statistics culled by Sensor

¹¹ Ananda Krishna, 'What is CERT-IN Certification and How to Obtain One?' (*Getastra*, 22 August 2022) <<u>https://www.getastra.com/blog/knowledge-base/cert-in-certification/</u>> accessed 21 July 2023

¹² Information Technology Amendment Act 2008

 $^{^{\}rm 13}$ Information Technology Act 2000, s 70D

¹⁴ 'Indian Computer Emergency Response Team: What is CERT-In, its functions and other details' (*News Nine*, 18 May 2022) <<u>https://www.news9live.com/utility/indian-computer-emergency-response-team-what-is-cert-in-its-functions-and-other-details-171027</u>> accessed 21 July 2023

¹⁵ Sunainaa Chadha, 'Explained: What the new VPN rules means for internet users in India' (*Times of India*, 12 May 2022) <<u>https://timesofindia.indiatimes.com/business/india-business/explained-what-the-new-vpn-rules-means-for-internet-users-in-india/articleshow/91510719.cms</u>> accessed 22 July 2023

Tower from the Google Play Store and Apple App Store and India has become the second largest market for VPN in the world.¹⁶ These circumstances raised the concern of privacy of Indian authorities as a result announcement was released by The Indian Computer Emergency Response Team (CERT-In) in late April 2022. In which new guidelines were introduced by CERT-In. According to the new CERT-in guidelines, all internet service providers, intermediaries, data centers, VPN, and other related service providers in India are required to store the user log information of their users for five years and to provide it upon request from governmental organizations. Log data of the user that is to be stored includes:

- Validated names of users,
- Period of hire including dates,
- IP address used by VPN users,
- Email and IP address,
- The rationale for using VPN services,
- address and contact information of the user,
- And Ownership pattern of the VPN subscribers.¹⁷

Adding to this, VPN providers are required to notify cyber-attacks within six hours of becoming aware of the breach to the Authorities and they are liable to assist authorities to reduce the damage caused by such cyber-attacks or breaches in data.¹⁸ In essence, there is a lot of important information, and once this information has been gathered, it somewhat negates the point of having a VPN, Digital rights organization Internet Freedom Foundation in India says 'These regulations are overly strict and Issued without public consultations, these directions raise serious concerns related to state-sponsored surveillance and data retention beyond need or

¹⁶ Ibid

¹⁷ Sneha Saha, 'India vs VPN: What is new VPN policy and will VPN be banned in India, here is the story so far' (*India Today*, 09 May 2022) <<u>https://www.indiatoday.in/technology/features/story/india-vs-VPN-what-is-new-vpn-policy-and-will-VPN-be-banned-in-india-here-is-the-story-so-far-1947187-2022-05-09</u>> accessed 22 July 2023 ¹⁸ Subin B, 'India's New VPN Policy Explained: Will VPN Be Banned?' (*Beebom*, 11 May 2022)

<https://beebom.com/india-new-vpn-policy-will-vpn-be-banned/> accessed 22 July 2023

purpose reads a notice that accompanies the directive' and they request that CERT-In withdraw these instructions.¹⁹

Due to guidelines, many VPN providers have withdrawn their services from India while refusing to give any consumer data to authorities. Further due to the CERT-In guideline number of users has diminished, according to data from AtlasVPN's VPN adoption Index, from more than 270 million VPN users in 2021 to only 48 million VPN users in 2022²⁰ which has significantly reduced the VPN market in India. VPN service providers operating within India must adhere to regulatory requirements and guidelines. This includes compliance with data protection laws, cooperation with law enforcement agencies, and adherence to any directives issued by the government regarding VPN usage and cyber security measures.

Overall, the legal framework for VPNs in India is evolving to address the complexities of digital technology and data privacy. Stakeholders, including VPN users and service providers, must navigate these legal obligations to strike a balance between cyber security, individual privacy, and compliance with relevant regulations. As digital cyberspace continues to evolve, it becomes crucial for all stakeholders to stay informed about updates and changes to the legal framework governing VPN usage in India.

NEED FOR VPN REGULATIONS IN INDIA

The government's concerns over national security, cyber threats, safeguarding intellectual property, and challenges with online surveillance are reflected in an array of variables that have an impact on the way Virtual Private Networks (VPN) are regulated in India. Knowing these explanations can help one better understand the government's goals and the wider effects of the nation's VPN rules.

 ¹⁹ Tejasi Panjiar et al., 'CERT-In Directions on Cybersecurity: An Explainer' (*International Freedom Foundation*, 05 May 2022) <<u>https://internetfreedom.in/cert-in-guidelines-on-cybersecurity-an-explainer/</u>> accessed 22 July 2023
²⁰ 'Global VPN Adoption Index' (*AtlasVPN*) <<u>https://atlasvpn.com/vpn-adoption-index</u>> accessed 22 July 2023

Here are some of the key reasons behind the establishment of VPN regulations in India:

National Security Concerns: In the digital age, national security is a paramount concern for governments worldwide. The government of India seeks to safeguard critical infrastructure, protect sensitive information, and prevent potential cyber threats from malicious actors or criminals. VPN can be used by these individuals to hide their online activities and IP addresses. And law enforcement and security agencies can't track and monitor suspicious or illegal activities done by a particular individual. As a result, VPN rules are put in place.

Combatting Cybercrimes: With the exponential growth of internet usage, cybercrimes have become a significant challenge for law enforcement agencies. VPN is often used by Cybercriminals to hide their true identities, due to this law agencies find VPN a milestone in tracing cybercriminals. The government needs to prevent these cybercrimes may need to regulate VPN usage to enhance its ability to investigate and combat cybercrimes, ensuring that law enforcement agencies can access the necessary information to pursue cybercriminals effectively.

Intellectual Property Protection: Intellectual property infringement, including copyright violations and digital piracy, remains a concern in the digital landscape. Users can access content that is protected by copyright by bypassing geolocation limitations by using a VPN. So VPN restrictions may be put in place to solve these problems and encourage adherence to copyright laws.

Online Surveillance and Content Control: The government's ability to monitor and control online content has been a topic of debate in India. The usage of VPN may be used to access prohibited websites and get beyond content filters, undermining attempts by the government to censor information flow. VPN regulations are introduced to maintain control over online content and ensure adherence to censorship guidelines while navigating the balance between freedom of expression and national security.

Misuse of VPN for Criminal Activities: While VPNs provide privacy and security benefits; they can also be misused for illegal activities, such as hacking, online fraud, and identity theft. By limiting the possibility for these technologies to be abused, authorities may prevent criminals from being able to swiftly conceal their digital traces to avoid finding out.

THE IMPACT OF VPN REGULATIONS ON INTERNET FREEDOM

Any nation, including India, might see significant effects from VPN limitations on Internet freedom. Governments enact these laws to combat problems with cybercrime and national security, but some consequences may damage people's rights, access to information, and privacy rights.

Here are a few examples of how VPN rules affect internet freedom:

Restricted Access to Information: VPNs are commonly used by individuals in countries with strict internet censorship to access blocked websites and bypass content filters. VPN regulations that restrict or ban the use of VPN can limit people's access to the free and open internet, preventing them from seeking information and ideas from diverse sources. This can lead to a more controlled flow of information and reduce the ability of citizens to form all-rounded perspectives on various issues.

Impact on Journalists and Activists: Journalists and activists often rely on VPN to protect their identities and communicate securely while reporting on sensitive topics or advocating for social and political change. VPN regulations can hinder journalists' ability to operate freely and safely, potentially leading to self-censorship.

Business Operations and Cross-Border Communication: Many businesses, especially multinational corporations, utilize VPNs to ensure secure data transfer and communication between their offices across borders. VPN regulations that impose restrictions on such operations can disrupt business activities, hinder innovation, and create barriers to international collaboration.

Circumvention of Geo-restrictions: VPNs enable users to circumvent geo-restrictions implemented by content providers and streaming platforms. While this can provide greater access to global content, it may also lead to copyright infringement and challenges for content creators and copyright holders. VPN regulations may attempt to strike a balance between accessing content and respecting intellectual property rights.

CASE STUDIES: INSTANCES OF VPN REGULATION

Government Crackdown on Unauthorized VPN: In recent years, the Government crackdown on unauthorized VPNs aimed to regulate VPN services operating in India without proper authorization, ensuring compliance with licensing and regulatory requirements. The objective was to curb the potential misuse of VPNs for illegal activities and enhance oversight of VPN activities within the country. And prevent a case like The Silk Road Case (2013). The Silk Road was an infamous darknet marketplace known for facilitating illegal drug sales and other criminal activities. Ross Ulbricht founded and invented it. He operated a website under the alias 'Dread Pirate Roberts'. He concealed his identity and location by using a VPN and other privacy technologies. He was ultimately detained and found guilty on allegations of money laundering, computer hacking, and conspiring to traffic illicit drugs. In this instance, using a VPN did not stop law enforcement from apprehending and punishing the offender.²¹

Cyber Security Threats and VPN Vulnerabilities: While VPNs provide enhanced privacy and security, they have also faced challenges related to cyber security. There are some cases where cybercriminals have exploited vulnerabilities in certain VPN services to gain unauthorized access to users' data or launch cyber-attacks. As happened in the case of NordVPN Breach (2018), In this case, NordVPN, a popular VPN service provider, suffered a data breach. The breach exposed customer usernames, email addresses, and authentication tokens. While the breach itself did not lead to legal actions against the users, it highlighted the potential risks associated with using VPN services, as user data may be compromised in such incidents. And also

²¹ Tim Hume, 'How FBI caught Ross Ulbricht, alleged creator of criminal marketplace Silk Road' (*CNN*, 5 October 2013) <<u>https://www.cnn.com/2013/10/04/world/americas/silk-road-ross-ulbricht</u>> accessed 22 July 2023

highlighted the importance of selecting reliable and secure VPN providers to mitigate cyber security risks.²²

Online Censorship and VPN: India's vibrant online community often faces instances of internet censorship, where access to specific websites and online content is restricted. In response, internet users have turned to VPNs as a means to bypass such censorship and access blocked content. As happened in cases like the Government's Crackdown on Chinese Apps Case (2020) and Tamilrockers Case (2019). In the first case in mid-2020, the Indian government banned several Chinese mobile applications, citing concerns about data privacy and national security. Among the banned apps were popular ones like TikTok, PUBG Mobile and others. Following the ban, some users reportedly attempted to access these apps using a VPN. While the primary focus was on the banned apps, the use of VPN to access them was also scrutinized.²³ In the second case, Tamilrockers is a notorious piracy website known for leaking copyrighted content, including movies and TV shows, which causes significant losses to the entertainment industry. In 2019, the Cyber Crime Unit of the Kerala Police arrested a person in connection with operating Tamilrockers. The accused reportedly used a VPN to hide his identity and location while running the website. The case highlighted the use of VPNs in enabling illegal activities and piracy.²⁴ In both these cases VPN usage, has been viewed as a way for individuals to exercise illegal activities. Due to this VPNs have also faced scrutiny and, at times, restrictions from the government as they challenge content control efforts.

CHALLENGES IN ENFORCING VPN REGULATIONS

Encryption and Anonymity: One of the primary reasons people use VPNs is to encrypt their internet traffic and maintain online anonymity. VPNs create secure tunnels that make it difficult

²² Mike Williams, 'What's the truth about the NordVPN breach? Here's what we now know' (*Techradar*, 30 June 2021) <<u>https://www.techradar.com/news/whats-the-truth-about-the-nordvpn-breach-heres-what-we-now-know</u>> accessed 22 July 2023

²³ Shubham Verma, 'PUBG ban in India: CamCard, VPN for TikTok, Beauty Camera, other big apps banned' (*India Today*, 02 September 2020) <<u>https://www.indiatoday.in/technology/news/story/pubg-ban-in-india-camcard-vpn-for-tiktok-beauty-camera-other-big-apps-banned-1717909-2020-09-02</u>> accessed 22 July 2023

²⁴ Leela Prasad, 'Explained: Who were Tamilrockers, the piracy group that became a headache for the Tamil film industry?' (*Indian Express*, 19 August 2022) <<u>https://indianexpress.com/article/explained/tamilrockers-web-series-piracy-group-fim-industry-explained-8097977/</u>> accessed 22 July 2023

for authorities to intercept and monitor user data, including VPN usage. As a result, identifying VPN users and enforcing regulations becomes challenging, as their true identities and online activities remain obscured.

Technological Advancements: VPN technology continuously evolves, with new features and encryption protocols being developed to enhance security and privacy. As VPNs evolve, so do the methods to bypass VPN restrictions and detection, making it challenging for regulators to keep up with the latest developments and enforce regulations effectively.

Distributed Infrastructure: Many VPN providers use distributed server infrastructure spread across multiple countries. This makes it challenging for authorities to pinpoint the exact location of servers and identify the jurisdiction responsible for regulating them. As a result, enforcing regulations on VPN providers with distributed infrastructure becomes complex.

User Awareness and Technical Know-How: Users who are aware of VPN regulations may take measures to circumvent them through various means, including using less-regulated VPN providers or employing additional privacy tools. Some technically proficient users may even set up their VPN servers, making it difficult for authorities to control VPN usage effectively.

Enforcing VPN regulations poses significant challenges due to encryption, anonymity, the wide range of VPN providers, technological advancements, distributed infrastructure, the distinction between legitimate use and misuse, user awareness, and the global nature of the internet. To effectively address these challenges, regulators need to strike a balance between cyber security, national security, and individual rights while collaborating internationally to tackle VPNrelated issues on a global scale.

RECOMMENDATIONS

As the digital sphere in India continues to evolve, addressing the challenges posed by VPN usage and regulations requires thoughtful approaches that balance security, privacy, and individual rights. Here are some key recommendations for the future:

International Collaboration: Foster international cooperation and collaboration among governments, organizations, and stakeholders to address VPN-related issues on a global scale. Cyber security, data protection, and internet governance are interconnected challenges that demand cross-border solutions and information sharing.

Transparent and Inclusive Policies: Develop VPN regulations and internet governance policies through transparent and inclusive processes that involve public input, industry stakeholders, and civil society organizations. Balancing security and privacy concerns requires engaging with diverse perspectives to ensure fair and effective regulations.

Clear Guidelines on Legitimate Uses: Provide clear guidelines and legal frameworks to distinguish between legitimate VPN uses for enhancing cyber security, protecting data, enabling secure remote work and misuse for illegal activities. Policymakers should aim to support legitimate uses while addressing concerns related to cybercrime and national security.

Privacy by Design: Encourage the adoption of privacy-by-design principles in VPN services and other digital technologies. By incorporating privacy protections into the design of products and services from the outset, companies can enhance user trust and data security.

Enhanced Cyber Security Measures: Invest in robust cyber security measures to protect against cyber threats, reducing the need for intrusive surveillance. Proactive cyber security practices can help safeguard data and infrastructure while respecting individual privacy.

Education and Awareness: Promote public education and awareness campaigns to inform individuals about the risks and benefits of VPN usage. Educated users are better equipped to make informed decisions about their online privacy and security.

Review and Update Regulations: Regularly review and update VPN regulations to keep pace with technological advancements and evolving security challenges. Regulations should be agile enough to adapt to changing circumstances while upholding democratic values and individual rights.

Ethical Use of Data: Emphasize the ethical use of data in VPN services and digital technologies. Privacy-conscious data collection and responsible data handling practices can help build user trust and confidence.

Multi-stakeholder Dialogues: Foster multi-stakeholder dialogues and forums where governments, technology companies, civil society, and academia can engage in constructive discussions about VPN regulations, privacy, and cyber security.

Proportional and Targeted Approach: Adopt a proportional and targeted approach to VPN regulations and surveillance measures. Ensure that any restrictions imposed on VPN usage or surveillance activities are based on evidence, necessity, and proportionality.

The future of VPN regulations and internet governance requires collaborative efforts, ethical practices, and a balance between security and privacy concerns. By adopting transparent policies, promoting cyber security measures, and engaging in inclusive discussions, policymakers can navigate the complexities of the digital age.

CONCLUSION

In conclusion, Virtual Private Networks (VPN), provide online privacy, cyber security, and access to geo-restricted information to its user. VPN emerged as a crucial tool in the contemporary digital world. However, the growing popularity of VPNs has also brought forth several problems, particularly regarding VPN laws and striking a balance between security, privacy, and individual rights. Globally, many approaches to VPN laws have been implemented, each reflecting specific cultural, legal, and security factors. While some countries see VPNs as possible risks to national security or tools for content control and restrict the use of VPNs such countries are Myanmar, Turkey, Uganda, and UAE. Some countries have embraced them as useful tools for preserving online privacy and cyber security. Governments, corporations, civic society, and internet users must all work together to carefully weigh these conflicting interests to strike the correct balance. VPN regulations must be crafted with transparency, inclusivity, and respect for individual rights. Clear guidelines on legitimate uses

of VPNs should be established to differentiate between their essential role in enhancing cyber security and securing data versus potential misuse for illegal activities. Policymakers should foster international cooperation to address global cyber security challenges and establish shared standards for VPN usage.

The future of VPN regulations and internet governance lies in finding a balanced approach that upholds national security interests while safeguarding individual privacy, freedom of expression, and access to information. As this technology continues to evolve regulatory frameworks must adapt according to new challenges and threats. Ultimately, the success of VPN regulations depends upon the collaboration of stakeholders. By working together, countries can build comprehensive regulations for the digital era and build a safer, more secure, and privacyrespecting online environment for all.