



Legalization of Cryptocurrency in India Using Cybersecurity Protocols

Prof. Manish Kumar Dubey¹, Dr. Kirti Muley², Ms. Shubhangi Mahadik³

Bharati Vidyapeeth's

Institute of Management & Information Technology, India

Email: dby.manish@gmail.com

Bharati Vidyapeeth's

Institute of Management & Information Technology, India

Email: kirti.muley@bharativedyapeeth.edu

Bharati Vidyapeeth's

Institute of Management & Information Technology, India

Email: shubhangi.mahadik@bharativedyapeeth.edu

Abstract:

The technological revolution has amongst different matters revolutionized cash also. It has given the beginning of a new medium of trade popularly recognized as cryptocurrency. It is handy solely in digital or digital shape and can be exchanged solely via online media. Virtual Currencies have grown to be especially famous these days due to increased privacy and decrease transaction costs. The accelerated makes use of and pastime of humans in these currencies around the globe and India depicts that a strategic criminal framework is indispensable to deal with digital currencies in us as properly as outdoors the country. The decentralized and nameless nature of digital currencies further offers an upward shove to troubles in their regulation. Cryptocurrency is accelerating different menaces like money laundering, terrorist funding, and tax evasion, which desires to be addressed at the earliest. I have tried to carry out the felony and focus troubles about cryptocurrency through conducting a survey and based on the evaluation of the survey consequences and current laws, the prison problems and challenges are pointed out and the viable options to them are proposed in the paper.

Keywords: Cryptocurrency, Cybersecurity, Regulation, Blockchain.

DOI: 10.48047/ecb/2023.12.si13.007

INTRODUCTION:

With the exponential enhancement and exceptional advancements within the subject of science in India primarily with the development of COVID-19 the fintech locale has been on a course of normal rise. With the developing notoriety and consideration among the people of India, with respect to Cryptocurrencies such as Bitcoin. Numerous have started contributing most of their time and cash in these advanced monetary standards in arrange to ride the worldwide wave of benefits. The summit financial specialist is in India. The Save Bank of India has taken into consideration the shape of computerized cash created through a collection of composed pc codes that are checked on cryptography and is in this manner fair-minded of any central issuing specialist per se. It is encouraged thru blockchain science and has emerged as a person-to-person issuance and exchange machine that produces utilize of individual and open keys that permit confirmation and encryption for impervious exchanges. India has an unregulated advertise with a work of over a trillion dollars. The Save Bank of India issued a press discharge cautioning the open towards managing in computerized cash after seeing the colossal notoriety of the advertise and seeing a reasonable pay misfortune. In November 2017 the Government of India constituted a high-level Inter-Ministerial Committee to record more than a number of issues with the utilize of computerized forex and along these lines in July 2019 this Committee submitted its record prescribing a cover boycott on non-public cryptocurrencies in India. In spite of the truth that a record from the Inter-Ministerial Committee was once pending at the commencing of April 2018 the RBI issued a circular halting all mechanical and agreeable banks little finance banks charge banks and NBFCs from not exclusively from managing in advanced monetary forms themselves in any case furthermore coordinating them to grant up conferring offerings to all substances which bargain with computerized currencies. As trades needed the keeping money offerings for sending and getting money basic for changing it into cryptocurrencies and for paying pay rates, this broke the undertaking down. Be that as it may the occasions winning around cryptocurrencies and their utilization were altered on 4th Walk 2020 when the Pinnacle court docket of India i.e. The Preeminent Court of India suppressed the some time recently boycott on utilizing the Save Bank of India. The Honorable Preeminent Court of India looked at the depend from the perspective of the Indian Structure which states the opportunity to work out any occupation or to raise on any occupation trade or business.

1. LEGAL ASPECTS AND REGULATION OF CRYPTOCURRENCY:

Cryptocurrencies have no longer been diagnosed as currencies with the aid of the RBI, and no precise legal guidelines or legal guidelines related to cryptocurrencies have been delivered in India to date. Due to the lack of a clear felony definition of cryptocurrencies, cryptocurrencies are presently regulated through more than a few necessities of applicable law. Cryptocurrencies may additionally fall below the definition of "computer program" under the Indian Copyright Act of 1957. This is a set of instructions expressed in different formats, such as computer-readable media, consisting of words, codes, schemas, or computer systems that complete a unique task or attain specific results. In addition, cryptocurrencies can nearly actually be categorized as intangible "goods" beneath the Sale of Goods Act of 1930. Foreign alternate tax,

carrier tax relevance (if cryptocurrency mining is regarded as a service), and income from cryptocurrency sales. However, cryptocurrency taxation is nonetheless in the grey area, and there is even greater uncertainty about the cryptocurrency regulatory environment. From the factor of view of forex management law, the purchase of cryptocurrencies using Indian residents can be considered as importing software programs or laptop programs into India. This requires compliance with relevant change management laws, consisting of RBI's insurance policies involving importing items and services. Regarding materials manufactured in the intangible shape in India. RBI additionally manages "payment systems" and "prepaid equipment" that require RBI pre-approval and compliance with relevant RBI regulations/instructions. However, cryptocurrencies may additionally no longer be categorized as price systems as long as they are no longer identified as a payment gadgets that can settle repayments between payers and beneficiaries and have a perception of the constant fluctuations in the price of cryptocurrencies. However, the use and trading of cryptocurrencies guard the data / sensitive private data.

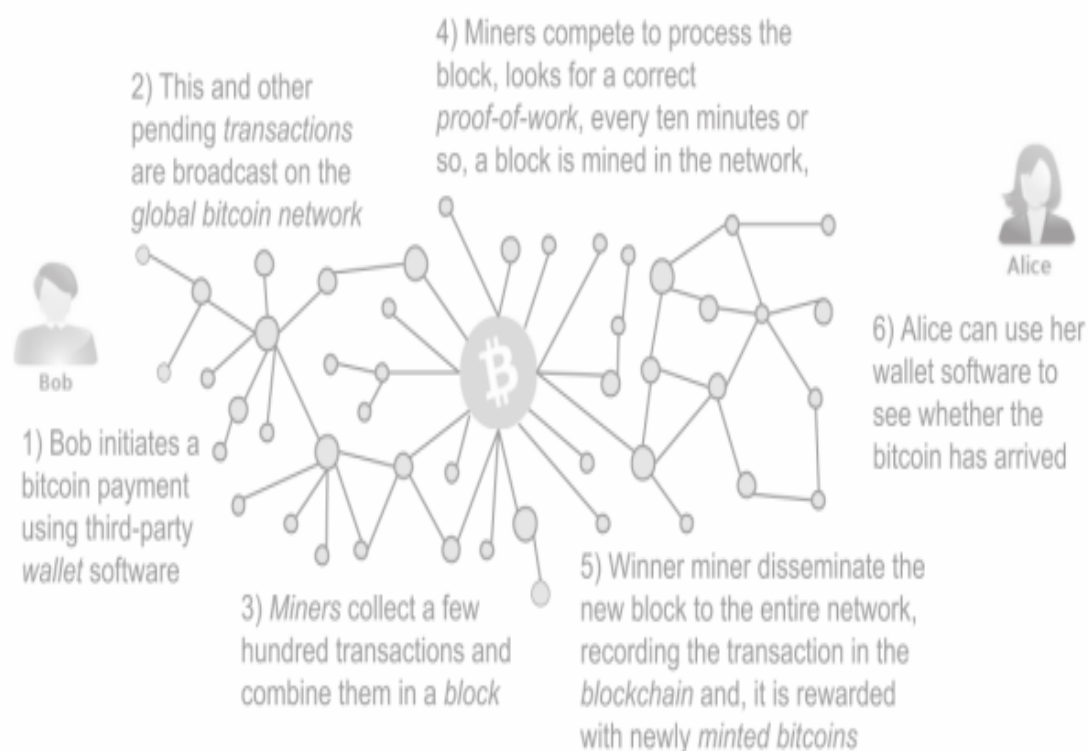


Figure 1: Bitcoin Transaction Processing Steps

2. CRYPTO WORKS ON:

A. Decentralized System

1. Centralized Exchange (" CEX") Trading with CEX requires participating private information, linking checking accounts, and complying with KYC conditions to change in cryptocurrencies. This is regularly one of the leading licit ways of buying and dealing with cryptocurrencies. druggies can use CEX to convert edict currencies linked to their checking plutocrat owed to cryptocurrencies. The authorities are formerly completely conscious of its

cryptocurrency effects and deals via this system. moment, there are numerous home CEXs like CoinDCX and also WazirX. It's also feasible to duty deals solely for the translucency and compliance that Cass provides.

2. Decentralized Exchange ("DEX") numerous DEXs, similar to Uniswap, MetaMask, Flapjacks, etc., do now not bear or indeed want to comply with KYC conditions to produce an account. You'll reveal your identification/non-public information yourself. One doesn't indeed want a checking account to begin buying and dealing with DEX. When creating an account, the platform will induce separate digital pockets with a unified attack (unique to every person) and the use of the alphanumeric law for the philanthropist attack to serve cryptocurrency deals. The ID is DEX defended, and in utmost cases, indeed the platform is ignorant of the stoner's ID. Cryptocurrencies generally alternate cryptocurrencies on DEX by way of using swapping P2P, centralized exchange, or stable cash-bought at formerly from DEX.

B. Peer-to-peer ("P2P") exchange:

A few on Telegram, WhatsApp, and different messaging apps have fashioned a crypto neighbourhood that makes P2P transactions at once in cryptocurrencies the usage of DEX with an easy online search. You can discover the group. Traders can alternate their cryptocurrencies without delay for cash, different cryptocurrencies, and different precious assets. P2P exchange is simply a community technique for crypto traders to alternate their holdings of DEX. Suppose private cryptocurrencies are banned. In this case, imposing such a ban is a hurdle, as digital wallets constructed on DEX containing cryptocurrencies can not be without difficulty tracked. DEX websites are frequently banned from internal the United States using DEX from an implementation standpoint, on the other hand, possession, and shopping for and selling of private cryptocurrencies in such digital wallets is additionally turning illegal. Your smartphone and desktop can additionally be confiscated as a section of the investigation process. However, whether or now not requiring the defendant to divulge his password / digital pockets handle is self-incrimination is nevertheless a controversial jail issue. It will perchance beautify choice case regulation first. Therefore, enforcement businesses want to replace their information bases and work with greater ethical professionals. At the same time, they want to increase assist software programs for investigation as a crime detection in this field. In the most simple sense, cash, assets, and possessions derive fictitious charges from the geared-up imaginary fact that defines our whole state-of-the-art being. As Yuval Noah Harari states in his e-book *Sapiens: A Short History of Mankind*, the whole element from society to human rights types our organizational, structural, and imaginary real-life neighbourhood. Cryptocurrencies are the same, then again why these volatile denominations are regarded as infamous? Every fictional reality has its strengths and weaknesses. Cryptocurrencies additionally prefer to be traded with caution. There are particular reasons for authorities' uncertainty about cryptocurrencies. In most cases, you do no longer be aware of who controls the ecosystem / special money and how a great deal they control them. Where is the server? Will Indian fiat forex be exchanged for cryptocurrencies for terrorist/unlawful purposes? Trade is moreover massive, and one day, it is no longer the inner spirit of the authorities to return to its banned / non-banned decisions. In a trendy context, the innermost spirit is transparency. Fortunately, and unfortunately, this is of paramount magnitude to the crypto ecosystem. The issue of confidentiality itself is the furnish

of the ecosystem. It would be captivating to affirm the government's long-term attitude in the course of private cryptocurrencies. Still, at the time of writing, cryptocurrencies are no longer banned in India.

3. EFFECTS OF CRYPTO LEGALIZATION IN INDIA:

Legalizing Bitcoin in India will have its most prominent effect on buying and selling extent and things to do associated with Bitcoin will expand by using sizable margins. Where on one hand it approves crypto forex start-ups to tackle issues over safety and chance worried with the use of Bitcoin, eventually will additionally shift the centre of attention over enhancing infrastructure, taking into account the common patron legalization would additionally assist to cast off apprehensions around its reliability and future elements underneath consideration. On the other hand, there have been reviews of Bitcoin and different cryptocurrencies buying and selling amounting to cash laundering and that it propagates to financing terrorist outfits. With the suited guidelines issued, crypto-forex has different advantages too and one of them is gaining sufficient self-belief and belief in personal money over steady currencies.

4. INDIA'S ATTEMPT TO LEGALIZE CRYPTOCURRENCY:

While a variety of worldwide gamers are searching for approaches to enter the Indian market, digital forex has but got a formal blessing. According to a business report, Kraken, Bitfinex, and KuCoin are contending to be the first to launch on the key, aftermarket principal Binance. Binance offered WazirX, home cryptocurrencies start-up that lets shoppers buy and promote bitcoin using Indian rupees by using the Binance Fiat Gateway, in 2019. Coinbase, a US according to the records portal CoinMarketCap, ranks them grounded completely on business, liquidity, and the trustability of said steal and trade volumes. " The Indian market is huge, and it's simply getting started. By now, if there had been more coverage certainty, Indian guests would have been putrefied for preference in terms of exchanges when you consider that all and sundry requirements to be proper then," stated Kumar Gaurav, the author of digital banking group Cashaa. still, given the federal Government has but to set out an egregious fashion to legalize cryptocurrencies, it'll no longer be simple.

5. LEGAL ISSUES OF CRYPTOCURRENCIES:

1. Affect of Cryptocurrency on Tax Regime:

Another region that has attracted the interest of regulators is the monetary factors of cryptocurrencies. The legal characterization of cryptocurrencies is the key to determining their tax consequences. The essential difference is whether cryptocurrency is a commodity (capital asset such as stock), in which case capital positive factors policies practice or a currency. Cryptocurrency transactions are situations to tax like any different asset or currency. Cryptocurrency transactions may also entice capital to achieve tax, profits tax, transaction tax, and wealth tax. Even if cryptocurrency transaction is void and illegal, the tax regulation is empowered to cost taxes on such transactions. In March 2014, the Internal Revenue Service in

the United States dominated that Bitcoin will be handled as property for tax functions as opposed to foreign money despite understanding that Bitcoin functions as a medium of exchange, a unit of account, and a shop of cost and operates like actual foreign money in some environments. This ability Bitcoin will be subject to capital beneficial properties tax¹². Talking on an international level, on the one hand, some countries targeted which class Bitcoin needs to fall under. For instance, Canada got here to the conclusion that, in the absence of a prison soft characteristic, Bitcoin fails the foreign money to take a look and should, therefore, be considered as a commodity for tax purposes. More specifically, the Canadian Revenue Agency demonstrated in January 2014 that when one makes use of Bitcoin to purchase goods or services, the “transactions involving bitcoins should be suggested as would any different barter transaction.”¹³ Lastly, Germany and the U.K. have determined to adapt their tax device primarily based on what would be economically viable. Indeed, no matter the truth that Bitcoin is no longer a currency due to the fact it is denationalized, Germany selected to recognize Bitcoin as an equal to non-public money, and, therefore, gave it the tax law of a currency ¹⁴. Thus, cryptocurrencies might also be viewed as a medium of exchange, a negotiable instrument, a property, or a subject of the contract. This may additionally rely upon the nature of the transaction and the strength of regulation to tax such transaction. Some of the taxes that can also attract cryptocurrencies are property tax, inheritance tax, transaction tax, provider tax, value-added tax (VAT), gift tax, wealth tax, capital acquire tax, earnings tax, and many more.

2. Customer Protection

Cryptocurrency transactions are based totally on having faith in peers, promoters, and the system. Bitcoin transactions are risky due to the absence of simple client protection, such as the provision of refunds bobbing up from disputes between retailers and customers. In case of any breach, the sufferer may additionally now not be in a position to produce perfect legal evidence for restoration of the damages. Most of the headlines associated with cryptocurrencies center attention on the shortcomings of the system. Cryptocurrency uses principles of facts and technological know-how (IT) and hence most of the viable disputes contain IT-associated offenses such as hacking, digital licenses, etc. Apart from this, other legislations that may also be applicable are customer protection law, contract law, legal guidelines associated with money laundering, mental property regulation, and banking laws. Various estimates exhibit cryptocurrency crime is on the rise, preserving pace with the market’s fast growth. That forces investigators to the center of attention on high-profile cases, security gurus and officers say, effectively leaving small buyers to their devices. People are encouraged to file cryptocurrency theft to nearby police like any different crime, announcing failing to do so only emboldens criminals. Yet due to the fact many victims simply no longer see the point, cryptocurrency theft is a long way more common than any posted estimates suggest, according to protection professionals. According to financial lookup company Autonomous NEXT and Crypto Aware, which works with buyers affected by crypto scams, about 15 percent of cryptocurrencies have been stolen between 2012 and the first 1/2 of 2018, representing a cumulative \$1.7 billion in cost at the time of the theft and with a rising tendency. In the first half of these 12 months alone, greater than \$800 million has already been stolen, by the data. Yet Lex Sokolin, a companion

and international director of fintech strategy at the firm, estimates that as an awful lot as 85% of crimes go unreported and says the posted records only represent publicly said heists.

3. Cryptocurrency-Driven Illegal Activities:

A. Security Threats

Hackers and malicious customers can create a great deal as they choose from digital foreign money if they spoil the machine and understand the technique of digital foreign money creation. This will lead to the potential to create pretend digital foreign money or steal digital foreign money by using simply altering the debts balances.

B. Impact on actual financial systems:

Since some digital foreign money structures are linked with actual world monetary systems, they may also affect the needs and furnish services of actual world money. For example, enabling customers to buy digital and actual items and offerings with digital foreign money in some systems might also reduce the need for actual money. Users will no longer rely on actual cash to purchase what they prefer and they will use digital cash instead. On the different hand, some structures allow customers to change their virtual foreign money with actual forex and this will enlarge the need for an actual world currency. This fluctuation will affect the actual economic systems.

C. Money Laundering:

Money laundering is one threat that is very in all likelihood to upward jab with the use of VC, particularly with structures that allow customers to change digital foreign money with actual money. In realistic case came about in Korea in 2008, the police arrested a team of 14 humans for laundering \$38 million bought from selling virtual currency. The team transformed the quantity of \$38 million, which is generated by using gold farming, from Korea to a paper business enterprise in China as repayments for purchases.

6. CONCLUSION:

Undoubtedly, crypto foreign money has giant advantages over the current tough currencies, and accepting it as a contributing phase of the economic system will affect the boom of any country. As there is a capping over the wide variety of Bitcoins that ever exists, makes it the core of appeal for economic analysts, traders, and governments. Though it is grabbed with the aid of so many technical obstacles in context to protection and utilization nonetheless it has to end up being the essential phase of many developed countries. India is additionally in the technique of legalizing Bitcoin with a pending suggestion of draft guidelines. Indisputably, legalizing crypto foreign money is going to influence India in a fine strategy including gas to the dream hearth of digital India and as nicely as the E-commerce industry. Considering the pace of attention and the way it is spreading despite so many challenges and apprehensions, the day is no longer a way the common man will experience the machine extra conveniently,

tightly closed over the normal structures, and seriously change the belongings in the form of cryptocurrencies. Post-legalization, anybody has to comply with the recommendations and businesses are to maintain the KYC policy. The second is the time to ripe the leverage of the crypto forex revolution as the contemporary price and the future predictions are pretty impressive. Accepting Bitcoin should keep up to billions in the rate paid to 0.33 parties for the country. Though crypto forex Bitcoin is below the method to end up mainstream in India, the underlying technology- The Blockchain Technology with which it is backed has caught the responsiveness of quite a few Indian banks.

7. WAYS BY WHICH WE CAN REGULATE CRYPTOCURRENCY IN INDIA:

1. There is already a regulatory window for men and women to invest in overseas foreign money belongings (up to \$250,000 per annum), referred to as the liberalized remittance scheme (LRS). Cryptos can be sincerely made a subset of the investments allowed below LRS. We can Impose this in India As well To Legalize Cryptocurrency
2. Let us seem to be at the query of transparency, anti-money laundering (AML), taxation, and such. Most of these can be addressed by way of prohibiting traders from keeping cryptos in private custody (that is in their laptop computer or PC) and making it obligatory to preserve crypto belongings in KYC-completed vaults of approved depositories — something comparable to maintaining shares in Demat accounts. If a want is, buyers can be allowed to keep some small fractions of cryptos in their wallets for making repayments and such transactions.

8. ACKNOWLEDGEMENT

We would like to express our heartfelt gratitude to our esteemed college professors for their unwavering support and invaluable guidance throughout the research process. Their expertise, mentorship, and constant encouragement have been instrumental in shaping the success of this research paper. We are grateful for their time and effort in providing us with insightful feedback, constructive criticism, and valuable suggestions that have significantly enhanced the quality of our work. Their passion for teaching and commitment to excellence have inspired us to push our boundaries and strive for academic excellence. We would also like to extend our gratitude to the administrative staff and support personnel for their assistance and resources that have contributed to the smooth conduct of our research. Finally, we are indebted to our families and friends for their understanding, patience, and unwavering support throughout this endeavor. Our heartfelt appreciation goes to all those who have contributed to the realization of this research paper, and we remain forever grateful for their guidance and encouragement.

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