

PROTECTING INNOVATION IN THE DIGITAL MARKET

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ABSTRACT

As E-Commerce is an industry which is developing at a quick rate. Also, there can be different occurrences where creation and development of somebody can be open without giving the individual enough credit, work and cash isn't given to the designer. So for this reason Intellectual Property assumes an exceptionally fundamental job. It offers assurance to all the substance which is accessible over the web. There are a few E-Commerce organizations which are performed between the representative or organization and customers though to make these exchanges more secure, protected innovation assumes imperative job.

Keywords: Intellectual property, Commerce, Innovation, security, cyberspace etc.

INTRODUCTION

Electronic Commerce alludes to every single business exchange which is dependent on electronic transmission and handling of information, involving content, pictures and sound. It also includes exchanges done on/over internet, in addition to electronic store exchanges and "Electronic Data Interchange (EDI)." On one hand, by mid-1800s, electronic business had started, when the main contract was done/executed over electronic transmit or phone. In any case, the articulation 'electronic business' is regularly utilized regarding the extension of trade utilizing PCs and present day correspondences, most strikingly the web and the internet. The improvement of security conventions has helped the quick extension of electronic business by considerably decreasing business chance components.

Security/Safeguarding is of central significance in electronic trade. "Open key cryptology" was designed in light of online defence concerns and has reformed online business. With the insurgency set up, the examination of law in regards to electronic trade starts. It requires understanding earthbound standards, social conduct and the utilization of lead of law. The dominant part of lawful issues emerging using electronic business, that can be addressed attractively by utilization of standard legitimate standards. Business law, shopper law and contract law, for instance, all apply to the web-correspondences, electronic keeping money, email transactions/contacts and the internet by and large. Be that as it may, the internet offered ascend to one of a kind and abnormal conditions, rights, benefits and connections that are not sufficiently managed by customary law. This has required enactment, universal assentions and a plenty of cases under the watchful eye of the courts to determine heap questions.

Intellectual Property or Licensed innovation (IP) is a legitimate term that alludes to modern property (which involves security of industrials structures, licenses, trademarks and land signs; additionally incorporates utility models, coordinated circuits, exchange dress and format plans) and copyright related rights. The insurance offered is against unreasonable rivalry including/or security of undisclosed data/exchange privileged insights. IP can be said as a sort of important (could be physical or elusive, similar to information) property/resource. Its esteem is with respect to physical resources, or, in other words in light of significance of innovation and imaginative works in current economy. Protected innovation comprising of unmistakable names, appearance, new thoughts and unique articulations make items one of a kind and profitable. It is regularly exchanged, or somewhat 'authorized', in its own privilege without exchanging the estimation of a fundamental item or administration, by methods for patent or other IP licenses from a rights proprietor to another.

There are a plenty of reasons why licensed innovation is pertinent to online business and internet business is critical to protected innovation. More than different business frameworks, web based business is included all the more regularly in offering administrations and items which are dependent on IP along with their permitting provisions. Preparing modules, frameworks, programming, plans, music, pictures, photographs and related examples, all would be able to be exchanged through web based business, where IP is the basic/fundamental segment of important/significant worth in the exchange. Since the estimation of things that are being exchanged on/over the Internet must be protected and insured, IP laws and mechanical security is viewed as pertinent, else they can be stolen or pilfered, prompting decimation of business. The frameworks that enable Internet to work i.e. programming, switches and switches, UI, systems, plans, chips etc., are forms of IP, which are regularly ensured by IP rights. Another critical piece of online business are trademarks, as client-acknowledgment, marking and cooperative attitude and other vital aspects of electronic business, which are ensured by trademarks and prevents competition/conflicts up to some extent. Along these lines, we can state, that IP is engaged with making web based business work.

Be it web related or web based business related business, both depend on item or patent authorizing in light of the fact that a wide range of innovations is pertinent/the requirement to make an item, which the organizations regularly redistribute the advancement of some part of items, or offer advances

through permitting game plans. If it comes to the situation that, each organization ends up creating/delivering autonomously, every innovative part of each item, the improvement and speed of high end innovation items will be unimaginable. The financial matters of internet business depends on the organizations (fundamentally the Small and Medium Enterprises) cooperating for the purpose of sharing, through permitting, the chances and risks of business. Web based business and organizations often hold a majority of their incentive in IP. Along these lines, it won't be false to state that valuation of one's web based business will be definitely influenced by the way that they've secured their IP or not. Nowadays, due to presence of respective trademarks and patent portfolios, many online business organizations are able to improve upon the estimation of their business.

Copyrights, trademarks and licenses make up the greater part of the zone of law known as Intellectual Property. Every one of them joined, are endeavoring to orchestrate the impacts that web based business and the Internet have had on the person's capacity to access and utilize that data. This paper will be addressing legal issues relating to the introduction and adoption of various forms of E-commerce and the risks associated with them, specifically the intellectual property related cybercrimes, surveillance and domain name disputes.

2. International Institutions And Framework Behind E-Commerce

Numerous International associations have invested significant energy and assets on settling legitimate issues and challenges in electronic business like the "UN Commission on International Trade Law (UNCITRAL), the International Chamber of Commerce (ICC), the Asia-Pacific Economic Cooperation (APEC), the Organization for Economic Cooperation and Development (OECD) and the World Trade Organization (WTO)" are a few models.

2.1. "UNCITRAL Model Law on E-Commerce"

In 1996, the "UN Commission on International Trade Law (UNCITRAL)" discharged what is currently the prominent, well-known model for shopper/business insurance in an online/electronic situation. The "UNCITRAL Model Law on E-Commerce" was proposed to furnish national lawmaking bodies with a format of globally adequate guidelines that would expel legitimate snags and make a more secure lawful condition for online business. The Model Law was proposed to encourage the utilization of electronic correspondence and also the capacity of data, for example, electronic information trade and E-mail/electronic mail. It gave standard approaches to survey the lawful estimation of electronic messages and lawful tenets for electronic business in particular zones, for example, carriage of products.

The Model Law has increased critical universal acknowledgment (near eight countries including India). It doesn't particularly allude to contract law. Rather it manages the rule of useful equality of electronic media in business exchanges. That is, the place the electronic shape is practically proportionate to the customary frame, it ought to be dealt with similarly by the law. This guideline penetrates all enactment dependent on Model Law. A second guideline basic "the Model Law is of innovation impartiality" (the term was picked because of the acknowledgment that innovation is continually creating). For instance, as "electronic mail" hints a specific medium, the Model Law utilizes the general articulation "information message".

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This Law addresses:

1. Legal acknowledgment of information messages
2. Writing and marks
3. Admissibility and evidentiary weight of information messages
4. Retention/storing of information messages
5. Formation/development and legitimacy of agreements
6. Recognition by gatherings of information messages
7. Attribution of information messages
8. Acknowledgment of (digital) receipt
9. Time and place of dispatch and receipt of information messages

2.2. E-Commerce and WTO implications

Since 1998, WTO individuals have started to investigate how they should manage the topic of inconvenience of taxes on cross fringe web based business. Given the novel idea of this rising method of conveying items, numerous inquiries stays to be replied. The WTO has responded to this new call as a need matter.

2.2.1. Proposition, Communications and Submissions to WTO

The "United States of America," was the primary party to make an accommodation to the WTO on the issue of inconvenience of duties on electronic transmissions. It recommended a brief ban on the inconvenience of custom obligations until the point that the world network had dealt with the legitimate ramifications of forcing such obligations on internet business. Before long, Canada too took action accordingly and proposed the equivalent. Significantly, the Canadian proposition put the issue in context, recommending that the individuals need to acclimate themselves with these exchange issues before endeavoring to determine them. The recognized issues are:

1. Under what conditions should an electronic deliverable be viewed as a decent or benefit?
2. To what degree is internet business secured by existing WTO exchange commitments?
3. How should online business be tended to with regards to future exchange arrangements?

Canada suggested that it would be useful if Members consented to apply no new estimates that would have the impact of applying traditions taxes to electronic expectations. Such a duty stop on new measures would be without bias to measures as of now set up. It was likewise illuminated that the levy stop would apply just to expectations that are transmitted electronically. It would not make a difference to expectations requested electronically but rather conveyed non-electronically.

In compatibility of these recommendations/proposition and the undeniable need to respond to innovative development, the "Ministerial Declaration on Global Electronic Commerce" was embraced on May, 1998, which proposed that "the General Council will, by its next gathering in unique

session, set up a far reaching work program to look at all exchange related issues identifying with worldwide web based business, including those recognized by Members. The Members will likewise proceed with their current routine with regards to not forcing custom obligations on electronic transmissions.”

As it was watched, a problem that needs to be addressed has been the inconvenience of taxes on web based business. It was concurred that items which are purchased and paid over the Internet yet are conveyed physically would be liable to existing WTO administers on levies and custom obligations as exist for exchange merchandise. In any case, the circumstance is more convoluted for tax assessment of the items that are conveyed as digitalised data over the web, as an assortment of issues emerge identifying with the fitting strategy administration. From that point, in February, 1999, the United States made an accommodation on the Work Program on online business. It tried to influence Members to build up a liberal view towards online business and its advantages, recommending that the most unambiguous approach to guarantee changed traditions treatment of web based business was to make lasting ban on custom obligations on electronic transmissions. Indeed, even Australia, in their Communication, upheld this by expressing that extending tax administrations to electronic transmissions would be officially difficult, and additionally conceivably distortionary and debilitating to exchange, contending that the expenses would exceed the advantages. Indonesia and Singapore united the temporary fad with their Communication on July, 1999, trailed by Japan. At last, the European Communities (and also their Member States, on August, 1999, set their Communication before WTO, expressing that all GATS arrangements (general, particular and special cases Article XIV) ought to be made appropriate to electronic conveyances. It was additionally fought that the current routine with regards to not forcing custom obligations on electronic transmissions ought to be kept up.

2.3. State of E-Commerce in India

Web based business promulgates an idea, which covers any type of business exchanges/data trade executed, by utilizing data and correspondence innovation among organizations and also, open organizations. In straightforward words, E-trade just means taking things that your organization is as of now doing face to face, through the mail, or via phone, and doing those things in another place on the Internet. All types of web related business go under the area of web based business. It comprises of intra/extranets, B2B(business to business), B2C(business to purchaser), internet publicizing or even simple online nearness (of any shape), utilized for any kind of correspondence.

Web based business has expanded essentially because of its brisk and bother free method for trading merchandise and enterprises on a worldwide scale in the recent decades. In the business year of 2010-11 just, India substantiated herself as a potential blasting ground for internet business by detailing 12% development in web based business retail business. The purchasing/offering of items and administrations by organizations and customers over the web are expanding quickly as buyers exploit wholesalers retailing their items at lower costs. Today, internet business has developed into a tremendous and critical industry. The aggregate estimation of web based business exercises inside India has surpassed Rs.5.7

billion amid 2004- 05, as per an examination led by Internet and Online Association of India.

E-business in India is in its beginning stage, yet it offers broad open door in a creating nation like India (low when it contrasted with UK or US markets) with nearness of energetic money economy, a quickly developing web client base (India has a web client base of around 137 million as of June 2012) populace with quick/relentless rate of expanding proficiency rate, mechanical advancement and headway and in like manner factors. Likewise, low costing PCs, an emanant and aggressive Internet Service Provider (ISP) showcase has shot web based business development in nation like India conceivable. India's e-business industry is on the development bend and encountering a rise in development. As a result of the ascent in the web wise urban populace, flood has been seen in online businesses like Travel industry and others like e-Tailing (online retail), classifieds and Digital Downloads (still in its underlying stage). The online travel industry has some privately owned businesses, for example, “Makemytrip, Cleartrip and Yatra” and in addition a solid government nearness regarding IRCTC, or, in other words Indian Railways activity. With respect to the online classifieds portion, it is comprehensively partitioned into three areas; Jobs, Matrimonial and Real Estate. A depiction by the Internet and Mobile Association of India has uncovered that India's e-business showcase is mounting at a normal rate of 70 percent every year and has developed more than 500 percent since 2007.

The protection of Intellectual Property rights on the internet has become a pertinent issue, since e-commerce is a sensitive platform because of danger of selling of counterfeit products, remote access to anyone from anywhere in the world and abuse of trademark rights. In the landmark judgment of *Jasper Infotech Pvt Ltd v. Deepak Anand & Ors* Here, the main issue was related to alleged sale of counterfeit goods by an E-commerce company namely Snapdeal. One of the retailers, KAFF (maker of kitchen appliances) even issued a caution notice accusing Snapdeal of selling fake goods and tampering with prices, so that their customers would refrain from buying any of their products from e-commerce companies as they were not authorized dealers. Also, the company not providing any warranty on products and any the purchases/transactions made shall be at the risk and cost of person himself was also a pivotal factor. However, the Delhi High Court, put a stay on caution notice by means of an interim order.

3. Protectable Intellectual Property And Issues

The web is a vast with least control and in this manner the assurance of licensed innovation rights ('IP' or 'IPR') is an emerging dilemma among major e-corporations and companies. Though there are regulations in India that secure IPRs in the physical world, the applicability of those regulations when it comes to safeguarding rights in internet business isn't basic. A portion of the primary types of licensed innovation assurance that an online commercial activity would be aware of are as follows:

- Patents: ensuring (if permitted by law) usefulness of product, techniques on which those internet commercial activity is based. With the passage of time and advancement of technology, there's a need for patent security regulations for PC programs, where India lacks

presently.

- Copyrights: covering assurance of the substance, web-designs, product hidden inside plan and substance conveyed on those stages.
- Trademarks: ensuring words, slogans or logos that would lead a random person to relate it to some online corporation/company. Notwithstanding securing their very own trademarks, a web based commercial activity that offers or presents different companies/brands displayed on its portal also should guarantee that the trademarks of those corporations/companies are ensured too.

3.1. IP Problems in E-Commerce Domain

3.1.1. Implied license and Fair Dealing

Virtual RAM (Random Access Memory) of the Computer is the place where the content of a website is stored/put away whenever one uses the internet. The VRAM might add up to multiplication and such unapproved propagation might be considered as an encroachment. The Copyright Act permits the legitimate owner of PC projects to make duplicates or adjust the program with the end goal to utilize it for the proposed reason. It likewise enables the owner to make reinforcement duplicates simply as a brief security against misfortune, annihilation or harm. In this manner, the Copyright Act allows keeping a brief duplicate of the program in either RAM or VRAM. Sometimes, copyright protected content (which might be other than computer software) are present on websites, which should only be stored/displayed after obtaining an implied license. Section 52 of the Copyright Act provides the clear demarcation between the acts which constitute infringement or not. In this way, proliferation of the duplicate in RAM or VRAM might be asserted for individual utilize and might be regarded as reasonable managing. An alternative method to this can be elucidated where a person who designs and puts up a website allows for a suggested permit for everybody to access and use for hyperlinking or printing activities. By means of usage/conduct or even the conditions, licenses can be implied, which is further propagated by Court decisions. Notwithstanding, in the case of downloading of the substance into the PC's lasting memory for sometime later would be secured as reasonable managing or under suggested permit is as yet an open inquiry.

3.1.2. Parallel Imports

A parallel import is not authorized/allowed as per the Copyright Act. The only exception being utilization for household purposes. The Copyright Act doesn't defines the words 'import' or 'importer' but as per the meaning upheld by Courts, it means bringing something into India from outside India. For example where a book is distributed, diverse distributors are given rights in various nations. A single ambitious distributor uploads the whole book on the web and provides full accessibility. If he makes the book accessible in public domain/nations where he has no rights, that amounts to infringement. The condition of the distributor in India is unfortunate as the Copyright Act somewhat allows each individual in India for downloading a single copy (might for local utilize). Regardless of whether the server is situated in a similar nation or not, the distributor can be held liable if he puts the book online, in a region where he has no rights.

3.1.3. Platform Scheming/ Where a Third Party is Copyrights @Kalahari Journals

responsible for creating Content

A standout from the majorly recognized situations is with regards to the site/stage and it's responsibility on which the business is done. Regularly internet business organizations redistribute the activity of outlining such sites/stages or production of substance to outsider contractual workers. The issue here would be who might claim the IP in the plan and usefulness (programming hidden the site) of the site and in the substance. A portion of the vital focuses for thought in such conditions would be as per the following:

1. A composed understanding that unmistakably illuminates the IP responsibility relating to territory/region, nature of right and terms.
2. It is imperative to check whether required permissions have been taken from 3rd parties and to comprehend the chain of title of those 3rd party IP (only if outsider IP is utilized by the contractual workers).
3. An organization which is involved in utilizing 'open source programming', must always be aware of the authorizing terms & conditions of programming.

3.1.4. Website displaying Content used by Third Party

It is a general fact and understanding that to access all substance present on public domain, vital authorization or appropriate from the proprietors of such substance has to be taken. Substance could run from data to logos of outsiders. In these cases, an outsider claims the IP, (like trademark, copyright) resulting in the web corporation/company essentially acquiring the imperative endorsements. Thus giving connects to different sites is a worry that should be tended to also.

3.1.5. Domain Names

A corporation/organization which is about to start online commercial activities will have to register/enrol for a domain name first. A location on the web like "www.amazon.in" and "www.yahoo.com" can be called as a domain name. On technical terms, a domain name is an important and effective name to the Internet Protocol asset of a site. They usually come under the purview of trademark law. A Registry of Domain Names could enlist a comparable or somewhat similar domain name but won't enrol two indistinguishable or identical domain names. Sometimes misleadingly comparing domain names can/might be/are enrolled for instance 'www.fcbk.com' or 'www.fb.com' or 'www.gooooogle.com' by a third party/outsider. Some random individual visiting any of the abovementioned websites may end up believing that the substance displayed/hosted on those sites is being supported by Facebook or Google. However, trademark law comes to the rescue in those instances. The company/organization should be well aware when picking up a domain name for enlisting/registering, so that the risk of cybersquatting can be averted.

There are many noteworthy cases in the Indian legal scenario like *Rediff Communication v. Cyberbooth & Anr* and *Yahoo Inc. v. Aakash Arora & Anr*, where because of usage of conflicting domain names, injunction have been granted. One shouldn't forget the purpose of trademark and a domain name, which is basically the same. The Hon'ble Supreme Court held in the case of *Satyam Infoway Ltd. v. Sifynet Solutions Pvt. Ltd.*, that 'a domain name may relate to the arrangement of administrations inside the significance of section 2(z) of the Trade Marks Act, 1999.'

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3.1.6. RMI or Rights Management Information

Any data which distinguishes work or its creator or proprietor of some privilege based on that work or some numbers/codes which speak/correlates to such data is called RMI. It enables the copyright proprietor to follow a copy/duplicate and to evaluate whether the copy is an infringing one or not. For protection against modification of any/some electronic RMI, the WIPO Treaty provides mandate for its signatory members. In case where a cinematographic film or solid chronicle is getting distributed, the particulars of the copyright holder and his/her work has to be shown, made obligatory as per Indian laws. Although on electronic rights, the laws remain quiet.

3.1.7. Hyperlinking, Framing and Meta Tagging

An essential thought for web based business organizations is their capacity to showcase their business and their capacity to always adjust to and utilize innovation to fill that need. In quest for accomplishing such advertising objectives, web based business organizations here and there need to manage meta-tagging, hyperlinking, deep linking, and framing issues and it is critical that the lawful ramifications of the same needs to be understood in a concise manner.

Example: An instance where a Company X's site gives a non-approved connect to another Company Y's site, otherwise another instance where Company X's site utilizes meta-tags that are akin to Company Y's trademarks, then the Company X is liable to be sued for infringing Company Y's intellectual property. Apart from IP infringement, emerging issues are also related to unfair competition. However, Hyperlinking (mainly the profound ones) and Meta-tagging are considered as copyright and trademark infringement respectively by Courts of different nations, some of which are:

1. The US case laws of *Batesville Serv. Inc. v. Memorial service Depot Inc.* and *Ticketmaster v. Tickets.com* establishes copyright encroachment.
2. In judgments of *Institution Technologies Inc. v. National Enviro-tech Group L.L.C* and *Playboy Enterprises Inc. v. Calvin Designer Lab*, trademark infringement was established. A similar judicial view was upheld in notable cases of *Reed Executive plc and anr v Reed Business Information and ors* and *Roadtech Computer Systems v Mandata Ltd.*

However, these problems are not addressed in detail when it comes to the Indian courts and legal scenario.

4. Upholding Ip - Liability For Infringement Of Ip

With the end goal to assess the requirement for not encroaching on an outsider's IP as well as for ensuring one's IP, the degree of risk for infringement of an IP must be assessed first. With a vast world of internet in place, it becomes problematic to move forward with the obligation of preventing infringement of IP, especially when the situation is such that the secured/protected IP works are scattered all over the web world, where detecting it's duplicate or similar copy and detecting the infringer itself becomes a tedious task. Sometimes, it also happens that the infringing matter or subject is present at a given domain or location, for restricted time period and further it appears on a different location altogether. When it comes to decide conceivable risk or liability (as per the resolutions under common law) that can possibly emerge when an IP is getting infringed, the applicable

IP security regulations becomes regional in its aspect, which is an underlining factor for deciding the relevant details and features, all of which leads to determining what we can call as 'jurisdiction'.

Now, what adds up or builds the way towards infringement of a particular IP, shifts for the type it is based on. Coming to the Courts, in deciding whether an infringement of trademark or copyright or combination of both have taken, a lot of factors are taken in to consideration. Probably the most well-known types of risks associated with infringement in India are as follows:

- I. Short term/Temporary or Permanent Injunction, where the infringing actions of the concerned wrongdoer are restricted via the orders of a Court.
- II. Payment of damages (determined to the extent or degree of lost profits or goodwill/reputation because of infringing tasks of the wrongdoer).
- III. Accounts of profits are being requested for.
- IV. Request where the infringing articles are seized and destroyed subsequently.

Also, a few number of IP laws does give prominence to rigid provisions imparting criminal liability (apart from the known civil remedies) which are related to penalties and offenses, for example, imprisonment of up to three years if applying for a trademark false in nature, infringing a copyright with prior knowledge and for applying for a geographical indication which is false in nature.

4.1. Universal Frameworks relating to Protection of IP in E-Commerce

After the industrialisation era, leading to the present times, the "Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS)" and the "Berne Convention for the Protection of Literary and Artistic Works" have paved the way for development of copyright law on a global scale. From 1974 onwards, the universal copyright instruments and elements have been overseen via means of the "World Intellectual Property Organization (WIPO)." Its target (what is portrayed in the agenda setting up for its establishment) is to make sure progress the assurance/insurance of licensed innovation all through the world through participation among States and, where fitting, as a team with other universal associations. As of now, WIPO administers six copyright treaties and consists of 180 member states. The institution aims at "homogenizing national intellectual property protections with an ultimate eye towards the creation of a unified, cohesive body of worldwide international law."

4.1.1. The Berne Convention

As made reference to over, the primary endeavour at a worldwide level to orchestrate copyright law dates back to 1886 with establishment of the Berne Convention. Here, the Convention came up with the way or provision of 'national treatment policy' to be adopted by all the member states, where a State has to provide a similar protection to copyrighted material to other member states, which it provides for the copyrighted material in its own domestic laws. One more important aspect was the question of 'jurisdiction', which the treaty decided to resolve in its own way by declaring that the disputes between the member states

shall be decided by the “International Court of Justice” (also known as “Hague Court”). But, the Treaty allowed the member countries to decide on their own whether they want to choose this particular jurisdiction or want to be exempt from its purview and till date, numerous states have chosen exemption from jurisdiction.

4.1.2. *The TRIPS Agreement*

Alongside WIPO, when it comes to additionally tending to international copyright regulations and issues, The “General Agreement on Tariffs and Trade (‘GATT’)” has given a valuable contribution. As copyright was winding up progressively essential in moulding international trade exchange and commerce with the development of a so-called “global information society”, the 1994 “Uruguay Round of GATT” created “TRIPS”, also known as the “Agreement on Trade-Related Aspects of Intellectual Property Rights.” The “World Trade Organization (WTO)” was initiated by the same Uruguay Round. Parts and excerpts of the “Paris, Bern and Rome Conventions” in articulating standards for licensed innovation laws form a significant part of the Agreement.

- a) “Article 9.1 of TRIPS Agreement” provides that, “Members shall comply with Articles 1 through 21 of the Berne Convention (1971) and the Appendix thereto. However, Members shall not have rights or obligations under this Agreement in respect of the rights conferred under Article 6bis of that Convention or of the rights derived therefrom.”³⁹
- b) “Article 10.1 provides that”, “Computer programs, whether in source or object code, shall be protected as literary works under the Bern Convention.”
- c) “Article 10.2 further provides that”, “Compilation of data or other material, whether in machine readable or other form, which by reason of the selection or arrangement of their contents constitute intellectual creations shall be protected as such.”

4.1.3. *“World Intellectual Property Organization (WIPO)”*

An association of the “United Nations (UN),” WIPO, prior to its foundation, derived its essence from there were numerous association built up under specific individual organs, notably the Executive Committee, The Global Bureau of Bern and The Assembly of Paris Union. WIPO’s exercises are of four sorts: enlistment, advancement of buries legislative participation in the organization of licensed innovation rights, particular program exercises and recently, question goals offices. WIPO’s exercises are of four sorts: enrollment, advancement of entombs legislative collaboration in the organization of protected innovation rights, specific program exercises and recently, question goals offices. With evolvment of new technology, it was found necessary by the member countries to deal with the emerging copyright issues on a global scale and hence, form a treaty.

4.1.4. *WIPO Copyright Treaty of 1996*

On December 20, 1996, The Diplomatic Conference at Geneva adopted this particular treaty. This treaty provides an exceptional understanding in tandem with “Article 2 of the Bern Convention.” It is identified with advanced innovation and the Internet. The WIPO copyright settlement is an

exceptional understanding among the member nations to awards creators more broad rights (in comparison to those rights allowed by the “Bern Convention”).

a) As per “Article 4 of the treaty”, “PC programs are ensured as scholarly works inside the importance of Article 2 of the Bern Convention. Such protection applies to computer programs, whatever may be the mode or form of their expression.”

b) As additionally expressed by Article 5, that “assemblages of information or other material, in any frame, which by reason by the determination or course of action of their substance establish scholarly manifestations, are secured all things considered. This security does not stretch out to the information or material itself and is without bias to any copyright subsisting in the information or material contained in the gathering.” In comparison to protection extended to just object code or the source code as per TRIPS Agreement, all kinds of computer programs are generally covered by the WIPO Copyright treaty. Thus, apart from the trivial modifications, the “WIPO Copyright Treaty”, happens to go in tandem with the TRIPS Agreement.

4.1.5. *The DMCA or “Digital Millennium Copyright Act”*

With its adoption in October 1998, the “Digital Millennium Copyright Act (DMCA)” implemented the United States’ copyright law into the digital age.

The DMCA:

- i) Observes/orders the tasks like allowing the splitting of copyright insurance gadgets to pursue encryption, test PC security frameworks, evaluate item interoperability, (for non-benefit libraries and files) giving exclusions from against circumvention arrangements & instructive foundations in certain situations and estimating incorporated profit with copyrighted material, as crimes.
- ii) Restricting/banning the appropriation of code breaking gadgets used for illegally duplicate programming and also its manufacture or sale;
- iii) Shields Internet specialist co-ops from copyright encroachment obligation for basically limiting the risk of educational/non-benefit establishments, when they serve as online specialist organizations (or ISPs). In some situations, to constitute copyright infringement by employees or grad-students, while maintaining specialist co-ops to eradicate material/subject matter from their frameworks that are found to constitute/build up copyright encroachment; and
- iv) Ensures that licensing fees are paid to record companies by “web casters”.

4.1.6. *Commonwealth Countries (like Australia and New Zealand)*

Under the Trade Marks Act, 1995 (Cth), the Trademarks are protected. Till the time, the trade mark is actually used/intended to be used with respect to goods or services nominated, there happens to be no limit on the number of classes in which an application can be made (in Australia itself, there are 42 classes for registration of a trademark). A sign is defined as ‘any combination/includes any of the following: any shape, name, letter, signature, word, numeral,

device, label, brand, ticket, heading, shape, scent, colour, sound or aspect of packaging.’ The deliberate or incidental misuse of Trademark rights (whether commercial or personal) arises in relation to framing, domain names, hyperlinking, usage of meta-tags and cybersquatting. Infringement details are put forth through section 120 of the Act.

In Australia, for patents, recently have included protection for business processes and other technology in amendments to the Patents Act 1990 (Cth). As per Section 18 provides that a patentable invention must involve an inventive step, be a manner of novel and manufacture, not erstwhile/secretly used before the priority date of a patent claim and should be useful.

4.2 E-Commerce security in Indian Scenario

In India, the Internet framework is spreading rapidly. In addition to that, numerous problems has been identified with web. Be that as it may, the pivotal problem concerning Internet is insurance of protected innovation creation/ideas/works of the creator/author. With reference to Section 13 and also section 63 of the Indian Copyright Act of 1957, pictures, artistic works, sound accounts & other imaginative works are shielded from getting replicated if the permission/consent of the holder of copyright isn't taken. As the same erroneous or duplicated material appears on the Internet, it becomes difficult to comprehend how the copyright law will handle the given situation. The Copyright Act of 1957 doesn't manage any kind of obligation of ISPs (Internet Service Providers) by any stretch of the imagination. Till now, position in India was uncertain regarding obligation for copyright encroaching outsider substance. With its coming (Amendment) Act, 2008 there is a critical elucidation in regards to the extent of invulnerabilities accessible to middle people. Dissimilar (as per the previous IT Act) to the insusceptibilities, these invulnerabilities are not just accessible as for offenses under the new and improved IT Act, however notwithstanding for the risks/liabilities emerging within the purview of any law. Section 79 exempts/bars ISPs from obligation related to outsider data or information made accessible by him, provided that the ISP had less or no learning of offense committed or necessary 'due diligence' has been carried out by the ISP for preventing random encroachments. Amendment to Section 79 states that (exception to the special cases), a middle person/intermediary, won't be at risk for any outsider correspondence, data or information made accessible or tweaked/flurried by him. A more careful study of Section 79 will throw light on the part that to give more relaxation and flexibility to ISPs, amendment to the said proviso was brought about.

4.2.1. Data-based Copyright

Databases are secured as scholarly works in India. In US, the creator has to be inventive when it comes to choosing and masterminding information and which only shows the information as actualities, are allowed to be enlisted. In UK a database seeking inventive information or requiring just unassuming aptitude and work gain of modest level, the privilege of unreasonable protection for a time period extending to 15 years only. But information made via full/pure innovativeness, then the copyright insurance is given for lifetime period of creator in addition to 70 years. Information accumulation (which itself is not protectable) could become subject of assurance which serves as the vital choice coordination & game plan, ending up consolidating

it with the correlation, deliberation and filtration and test. Through web crafted by creators can be shown in various purviews and which is extremely hard to identify. Thus, over the Internet, the presentation rights, can be effectively disregarded.

Section 43 particularly, forces risk “to pay harms by method for remuneration not surpassing one crore rupees to the individual so influenced” and if “any individual without consent downloads, duplicates, or concentrates any information, PC database or data from such PC, PC framework or PC arrange.” This section characterizes ‘database’ with something as “portrayal of data, learning, certainties, ideas, or guidelines arranged in a formalized way.” By “computer database”, we mean a “representation of information, knowledge, facts, knowledge, instructions or concepts in video, text, audio or image which are being/been prepared (in a regulated or formalized manner) in turn, produced by a computer network or computer system.” The effectiveness of this section is yet to be tested in it's applicability when to comes to granting protection of data or databases on the Internet.

India, being a member of TRIPS Agreement as well as the Berne Convention, realises the requirement of inventiveness and originality in arrangement or selection of the substance/contents of the database when it comes to enforcing copyright protection. As per “Section 2(o) of the Copyright Act”, “computer database” is well included within the definition of “literary work.” Moreover, the Copyright Act also grants that the “copyright shall subsist in original works of authorship.”

5. Judicial Pronouncements In Relation To Infringement Of IP

5.1. International cases

- i) The defendant Total News used framing activity to display the content of external news websites like Reuters, CNN, Dow Jones and Times Mirror in the case of *Total News v Washington Post Co.* The dispute was settled on the terms that permitted the defendant to carry on linking activity to the plaintiff's website but barring them from using the framing technique.
- ii) In *PlayBoy Enter Inc. v Frena*, respondent's supporters downloaded unapproved photos of playboy 'endeavours' or activities on a public notice board framework. Here, the US Court held the offended party's selective right of conveyance was encroached by clients of respondent. This makes a commitment on the notice board administrators to guarantee that its framework isn't being utilized to show and download copyrighted materials by its clients.
- iii) In appropriate situations, Framing can be put forth as the basis for an IP infringement claim and this particular norm was accepted by the Judiciary in *Futuredontics Inc. v Applied Anagramatics Inc.*
- iv) The difference in theories of Copyright was elucidated upon in the judgment of *Feist publication v Rural Telephone Service Co. Inc.,* To ensure or to be considered valid for copyright protection, 'sweat of the brow' principle has to be brought in accordance with the principle of 'minimal degree of creativity.'

- v) The decision of the Federal Court in the removal of meta-tags including the name of the defendant on plaintiff's website and cancellation of certain domain names, on grounds of trademark violation was noteworthy in the case of *Yoga Malik Pty Limited v Kailash Centre for Personal Development Inc.*
- vi) The US District court, in case of *Netcom v Religious Technology*, held that transitory duplicating associated with perusing is what might as well be called perusing and does not involve the duplicate right laws. So as respects perusing one must arrive at the end that it doesn't add up to infringement and can be regarded to be a reasonable managing.
- vii) The 'methods of doing business' were decided to be patentable as well as legitimate by the Court given in the judgment of *Signature Financial Group Inc. v State Street Bank and Trust Co.* provided that other relevant requirements are met, which also applies to "e-commerce, internet technology and banking."
- viii) In *Kelly v. Arriba Soft*, included an internet searcher intended to recognize and accumulate pictures posted on WebPages. The respondent did not look for the consent of the copyright proprietors of the pictures that showed up on litigant's list. Offended party's cases asserted both copyright encroachment, and infringement of the DMCA (forbiddance on the evacuation of copyright administration data). In spite of the fact that the thumbnail pictures on the list of the litigants web crawler showed offended party's photos in full, their size were incredibly decreased, and, the thumbnails couldn't be extended. The court found that showing a full-sized variant of the picture without restoring the watcher to offended party's site was more dangerous. At long last, the court held that litigant's file did not bargain the potential market for or estimation of offended party's works.
- ix) As per the decision of the UK Court of Appeal, it was held in *Merrill Lynch's Application*, that a "computerised trading system (meant for stocks and shares)" was capable of being patented. Further it went on to confirm those inventions are still allowed to be patented whose non-obviousness and novelty reside in computer programs (non-patentable subject matter)

5.2. Indian Cases

- i) *Bixee.com v Naukri.com*: A preliminary injunction was issued by the Delhi High Court which restricted "Bixee.com from 'deep-linking' to Naukri.com." The decision was based on a prima facie discovery where that "Naukri.com" endured considerable monetary loss because of diversion of users/readers away from the advertisements.
- ii) *Satyam Infoway Limited v Sifynet Solutions (P) Limited*: The word 'sify', which was a coined term, which the appellants, by using elements of its corporate name, Satyam Infoway, end up inventing. The respondents, under the domain names 'www.sifynet.com', started carrying business of internet marketing. Both the decision of City Civil Court as well as the High Court favoured the defendants, as the appellants failed to substantiate

their claim that their customers were getting confused or being led away.

- iii) *The Google & T-Series Case*: T-Series, a music company, brought forth a body of evidence against YouTube and also its parent organization i.e. Google Inc., in 2007, for acquiring benefits to the detriment of its legitimate copyright proprietor, where the supporters/user base were enabled to transfer copyrighted material of T-Series without getting a permit/authorization from company itself. Certain matters were posted on 'www.youtube.com', by users of YouTube, which happened to be under the under copyright of T-Series. On posting such matters, T-Series ought to have carried on actions against the user performing the same. This was considered as infringement of Copyright as per "section 51 of the Indian Copyright Act." Nonetheless, section 63 of the demonstration additionally incorporates inside its extension abatement of encroachment. Hence, just like the standard pattern in such cases, rather than suing the client, which would end up being unbeneficial as far as the capacity for paying remuneration, T-Series along with Super tapes Industries Limited (SCIL-its parent organization) brought an activity against YouTube and Google Inc. The Delhi high court passed a time request of directive limiting YouTube from recreating, adjusting, dispersing and showing on their sites or generally encroaching in any way any varying media works in which SCIL possesses select, subsisting and legitimate copyright. Since YouTube and Google did gain some monetary advantages by making accessible (without any consent or any expense), the copyrighted works of T-Series, which also contained ads, without acquiring any permit or authorization from SCIL (the parent company which earned benefits from offering these copyrighted works/tunes in market as CDs and DVDs, the decision was given in favour of T-Series.
- iv) *Rediff communication ltd. v Cyberbooth*: It was observed that the Internet Domain names are a valuable corporate asset and are of considerable importance, as decided by the Bombay High Court. Considered more than an "internet address", a domain name is entitled to same protection as imparted to a trademark and practices like passing-off should be prevented by all means.
- v) *Titan Industries Ltd. v Prashant Koapati*: Here, the Plaintiff's trademark application of 'tanishq' in India, which was still pending, as of the date of the hearing in 1998, yet had extensive tradename use of the same. Thus, relief was granted based on the passing-off doctrine in the nature of trademark infringement.
- vi) *Sumit v Himalayan Drug Company*: An Indian organization which carried on business of assembling and showcasing home grown restorative items, happened to accumulate a 'natural database', which in turn, was posted on the company's site. An infringer (from Italy) wrongfully copied/duplicated the database and also, posted its equivalent on a site facilitated by a US server. The Italian infringer through its "US server/ISP", was sued by the Indian Organization,

asserting that their 'natural/home-grown' database was a scholarly and unique work under the "Indian Copyright Act." Also, the infringer had unlawfully, copied the first database, resulting in damaging the Plaintiff's privileges of conveyance and correspondence to general society. Thus, the High Court of Delhi, in accordance with that, conceded an ex-parte directive restricting the respondent from imitating the Plaintiff's work. Also, the aggrieved Indian party forwarded a notice of the request to the US based Internet Service Provider, asking it to deny access/cripple the encroaching site in accordance with the "Digital Millennium Copyright Act," containing notice, bringing down arrangements on satisfaction of specific terms and conditions. The US ISP/server expelled the reprovved site after getting the notice.

- vii) *Yahoo Inc. v Akash Arora & Anr*: Here, the defendants who were attempting to use the domain name "www.yahooindia.com" (for internet related services), were granted a permanent injunction in reply to the Yahoo! Inc.'s petition, who were seeking injunctive relief, by the Delhi High Court.

CONCLUSION

As E-Commerce is an industry which is developing at a quick rate. Also, there can be different occurrences where creation and development of somebody can be open without giving the individual enough credit, work and cash isn't given to the designer. So for this reason Intellectual Property assumes an exceptionally fundamental job. It offers assurance to all the substance which is accessible over the web. There are a few E-Commerce organizations which are performed between the representative or organization and customers though to make these exchanges more secure, protected innovation assumes imperative job.

The rapid pace of growth and development of the internet business system/industry isn't only characteristic of the ever-expanding openness of people in general but it also has (additionally) brought to the fore, the problems that the laws and regulations of the nation that has been found out. The internet business industry has evolved and made considerable progress, right from the time, when internet was yet another marvel of the technological boom to the present time where internet has turned into an adequate necessity for each household in most metropolitan urban/rural or even mobile areas. A plethora of issues are arising from the ever increasing usage of the Internet and its offered services, hence as per the IT Act, a legitimate and regulatory framework has continually attempted to get up to speed particularly with the sanctioning and imposition of the different guidelines. Additionally the issues pertaining to Intellectual Property in web based business activities/exchanges/transactions have taken a totally different turn, with clients discovering provisos to delude different clients as well as effectively copy material. Thus, considerable and effective means (more so stringent) are expected to regularly control the tangled web i.e. the Internet. Further, on the same lines, an 'all-out' comprehensive working of the lawful administration, along with recognition of conceivable issues which an online portal/business would confront, combined with proper checking and regulatory procedures has been the need of great importance for internet business organizations to flourish in this technological era and Copyrights @Kalahari Journals

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