# VIDEO CONFERENCING IN INDIAN COURTS

Opportunities and Challenges

Paper 4: Whitepaper Series On Next Generation Justice Platform



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## Authors

Amulya Ashwathappa

Arunav Kaul

Chockalingam Muthian

Leah Verghese

Sandhya R

Shruthi Naik

Surya Prakash B.S.

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- 9. Santhini v. Vijaya Venketesh, (2018) 1 SCC 1.
- 10. See Smt C. Surekha Naga Durga v. State of Andhra Pradesh and Ors., Criminal Revision Case No. 923 of 2017.
- 11. State of Maharashtra v. Dr. Praful B. Desai (2003) 4 SCC 601.
- 12. Swapnil Tripathi v Supreme Court of India (2018) 1 SCC 1.
- 13. The Salem Advocate Bar Association, Tamil Nadu v. Union of India (2003) 1 SCC 49.
- 14. Twentieth Century Fox Film Corporation v. NRI Film Production Associates (P) Ltd. AIR 2003 Kant 148.
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### INTRODUCTION

With a countrywide lockdown and the enforcement of social distancing, courts across India are using video conferencing to carry on some of their work. This is driven by a need to ensure citizens continue to have access to justice and to avoid a justice gridlock. This pandemic has highlighted gaps in the capacity and readiness of courts to move online in situations such as these. It has also provided an opportunity for the judiciary to accelerate the process of digitisation and create a framework for working online, as far as possible.

Enabling video and audio technologies in judicial proceedings, when implemented with other measures like e-filing and better cause-list management, can fundamentally alter how citizens can access justice through the judiciary. While written submissions cannot be done away with completely in judicial proceedings, video technology can be an excellent complement to it. It could help humanise the proceedings by enabling recording and storing depositions by parties and witnesses, and arguments by lawyers. These could be invaluable when cases are appealed.

Enabling participation through video could help give access to many who are located far away from courts and are more comfortable transacting in Indian languages. The availability of transcription technology has further opened up the possibility of these technologies at scale.

Video conferencing can be used in three aspects of the justice system: legal aid, alternate dispute resolution mechanisms, and dispute resolution. Video and audio technologies can play a huge part in educating citizens about their rights, informing them of the dispute resolution options, and giving them legal assistance, where they are eligible. Distance and cost act as significant barriers in accessing legal assistance and prevent many from taking their disputes to a logical conclusion. Imagine the situation of migrant workers not familiar with the local language and who want to pursue a dispute against their employer.

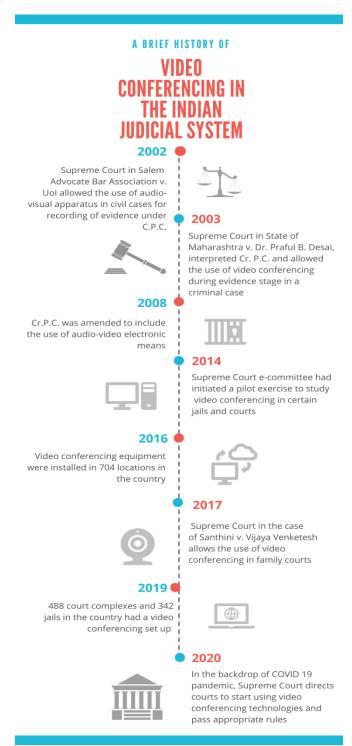
Distance and cost are also significant barriers in accessing legal assistance and prevent many from taking their disputes to a logical conclusion. Given these possibilities of improving access to justice, the video conferencing system to be used needs be designed keeping the end-users in mind and built with appropriate checks and balances for the safety of citizens and the security of their data. The technology and architecture of the videoconferencing platform should take into account vulnerabilities of witnesses and due process concerns. There is much that can be learnt from other jurisdictions who have been

using this technology actively over the years. The key as always lies in effective implementation and institutional mechanisms in place to achieve these outcomes.

This paper provides an overview of the existing implementation of video conferencing and attempts to create a framework for the implementation of virtual courts in the future. The first section of this paper describes the current status of video conferencing in various courts and tribunals across India. The second section gives an overview of other digital processes that should accompany videoconferencing to make it effective. The third section describes the circumstances required to make video conferencing effective. The fourth section explains what the architecture of a virtual court should look like. The fifth section points out the due process concerns to be kept in mind while implementing virtual courts. The sixth section highlights the issues of transparency and privacy in the implementation and rollout of virtual courts. The seventh section describes the standards for the technology (software and hardware) required for implementation of virtual courts. The eighth section provides an overview of international experiences with virtual courts. The ninth section gives an overview of the implementation of virtual courts, given the Indian context. The tenth section lists points on which further discussion is required. The eleventh describes a framework for the rules which should be enacted for the implementation of virtual courts.

### 1. CURRENT STATUS

### 1.1. USE OF VIDEO CONFERENCING IN CIVIL AND CRIMINAL TRIALS



Various judgments of the Supreme Court and high courts along with certain procedural amendments have paved way for video conferencing in the trial of a case. Introducing a video conferencing mechanism for various circumstances in a case has helped in reducing the time it takes for witnesses to travel, or for undertrial prisoners to be taken to court. To save time and cost in litigation, video conferencing today is used in various levels of the judiciary. The different initiatives launched by the government and the Supreme Court's e-committee over the decade have expanded the use of video conferencing in jails and courts across the country.

The beginning of the millennium proved to be a successful turning point for introducing video conferencing in Indian courts. The Salem Advocate Bar Association, Tamil Nadu v. Union of India<sup>1</sup> was one of the first landmark cases that broadly interpreted the provision of the Civil Procedure Code, 1908 (C.P.C) and allowed for the use of electronic media during the evidence stage. Order 18 of the C.P.C which deals with examination of witnesses, states that the court or the Commissioner, 'shall record either evidence in writing or

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<sup>&</sup>lt;sup>1</sup> (2003) 1 SCC 49.

mechanically...'<sup>2</sup> The Supreme Court while interpreting the provision held that the word mechanically indicates that evidence can be recorded with the help of electronic media including audio or audio-visual apparatus.<sup>3</sup> A year later in another judgment of the Karnataka High Court wherein a petition was filed to cross-examine a witness located in the United States through video conferencing in a civil suit, the High Court relied upon the Salem Advocate case to allow remote cross-examination.<sup>4</sup> In doing so, the High Court laid down several safeguards while carrying out such audio-visual examination of witnesses, which included, inter alia, filing of an affidavit/undertaking, administration of oath, etc.<sup>5</sup> These judgments have carved the way for the use of video conferencing in civil suits in India and today, several courts in different parts of the country use this technology to examine witnesses and parties located in a different location.

Apart from the use of video conferencing in civil suits, it is also being used extensively in criminal trials. Judges often use video conferencing for hearing bail applications, remand cases, and the examination of an accused person, especially when it is too dangerous or burdensome to take the accused from the jail to the court. However, this was not always the case. There was ambiguity in the use of audio-visual equipment during a criminal trial. This ambiguity was settled by the apex court in the case of State of Maharashtra v. Dr. Praful B. Desai. The court while delving into the issue of 'presence of accused' in the court as mandated under Section 273 of the Criminal Procedure Code, 1973, (Cr.P.C.) held that the term 'presence' does not mean actual physical presence.<sup>7</sup> The court thereby allowed the use of video conferencing for recording evidence in a criminal trial when the accused or the witness cannot conveniently be examined in court. In 2008 certain sections of the Cr.P.C. were amended to include the use of audio-video electronic means. Courts have also allowed video conferencing for a substantial part of the trial in sensitive matters in the interest of timeliness and justice. For instance, in one of the high-profile counterfeit cases, the Madras High Court allowed the use of video conference for a substantial part of the case to reduce the monetary burden to the government, manpower, energy and for the better safety of the prisoners.8

<sup>&</sup>lt;sup>2</sup> Order 18 Rule 4(2), Civil Procedure Code, 1908.

<sup>&</sup>lt;sup>3</sup> State of Maharashtra v. Dr. Praful B. Desai (2003) 1 SCC 49, para 19.

<sup>&</sup>lt;sup>4</sup> Twentieth Century Fox Film Corporation v. NRI Film Production Associates (P) Ltd. AIR 2003 Kant 148.

<sup>&</sup>lt;sup>5</sup> Twentieth Century Fox Film Corporation, Kant 148, para 10.

<sup>6 (2003) 4</sup> SCC 601.

<sup>&</sup>lt;sup>7</sup> Dr. Praful B. Desai, para 12.

<sup>&</sup>lt;sup>8</sup> Abdul Karim Telgi and Ors. v. State, 2008 Cri.L.J. 532 (Madras High Court).

### 1.2. VIDEO CONFERENCING IN OTHER COURTS AND TRIBUNALS

Apart from regular civil and criminal courts, there are other courts and tribunals that have been using video conferencing. For instance, the National Company Law Tribunals Rules passed in 2016 allows for video conferencing for cross-examination on an application made by the parties. Even the Income Tax Appellate Tribunal has passed detailed guidelines for the use of video conferences and the manner in which proceedings will be conducted. As per news reports, even the National Green Tribunal has started using video conferencing for benches located in different states. Due to growing vacancies in different benches, the central bench is handling the cases being filed in different zonal benches.

Further, the family courts also have been using video conferencing in different parts of the country. The Supreme Court in 2016, dealt with the use of video conferencing in disputes before the family court. The Supreme Court stated that in a scenario where the settlement has failed and both the parties consent, courts can allow the use of video conferencing. However, the Supreme Court barred the use of video conferencing in transfer petitions. As per news reports certain cities such as Hyderabad have carried out certain proceedings through video conferencing in family courts.

Therefore, one can note that there are various courts, tribunals, and jails in the country that are slowly transitioning towards the use of video conferencing. The e-committee of the Supreme Court in 2014 had initiated a pilot exercise to test software for video conferences and accordingly expand the video conferencing solution to 500 courts and jails in the country in the first phase. <sup>16</sup> In 2016, there were 704 locations in the country

<sup>&</sup>lt;sup>9</sup> Rule 39, National Company Law Tribunal Rules, 2016, available online at <a href="https://nclt.gov.in/sites/default/files/All-PDF/Rules">https://nclt.gov.in/sites/default/files/All-PDF/Rules</a> NCLT latest.pdf (accessed on 11 April 2020).

<sup>&</sup>lt;sup>10</sup> Income Tax Appellate Tribunal, Practice Note, 9 November 2012.

<sup>&</sup>lt;sup>11</sup> Maitri Porecha. 2019. 'National Green Tribunal reeling under vacancies', *The Hindu Business Line*, 29 October, available online at <a href="https://www.thehindubusinessline.com/news/national-green-tribunal-reeling-under-vacancies/article29821953.ece">https://www.thehindubusinessline.com/news/national-green-tribunal-reeling-under-vacancies/article29821953.ece</a> (accessed on 11 April 2020).

<sup>&</sup>lt;sup>12</sup> Porecha, 'National Green Tribunal reeling under vacancies.'

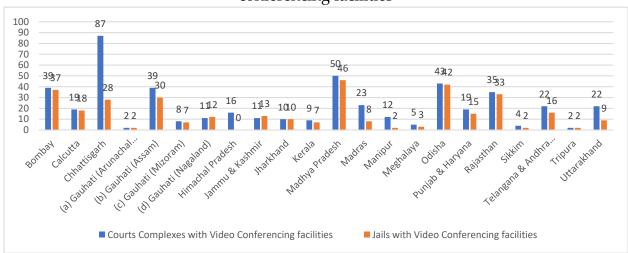
<sup>&</sup>lt;sup>13</sup> Swapnil Tripathi v Supreme Court of India (2018) 1 SCC 1.

<sup>&</sup>lt;sup>14</sup> Santhini v. Vijaya Venketesh, (2018) 1 SCC 1.

<sup>&</sup>lt;sup>15</sup> Vujjini Vamshidhara. 2019. 'Hyderabad: Video evidence valid in matrimonial row', *Deccan Chronicle*, 4 August, available online at <a href="https://www.deccanchronicle.com/nation/current-affairs/040819/hyderabad-video-evidence-valid-in-matrimonial-row.html">https://www.deccanchronicle.com/nation/current-affairs/040819/hyderabad-video-evidence-valid-in-matrimonial-row.html</a>

<sup>&</sup>lt;sup>16</sup> eCommittee, Supreme Court of India. 2014. *Policy and Action Plan Document Phase II of The Ecourts Project*, Annexure 2-I, available online at <a href="https://ecourts.gov.in/ecourts-home/static/manuals/PolicyActionPlanDocument-PhaseII-approved-08012014-indexed\_Sign.pdf">https://ecourts.gov.in/ecourts\_home/static/manuals/PolicyActionPlanDocument-PhaseII-approved-08012014-indexed\_Sign.pdf</a> (accessed on 11 April 2020).

where installations of video conferencing equipment were completed.<sup>17</sup> As per the recent data released by the government, there are 488 court complexes and 342 jails in the country where video conferencing is available.<sup>18</sup> The chart below provides the break-up.



**Figure 1**: High Court-wise court complexes and corresponding jails with video conferencing facilities

Amongst the various areas provided in the graph, one can note that Chhattisgarh has the highest number of court complexes with video conferencing facilities while Madhya Pradesh has the highest number of jails with a functioning video conferencing apparatus.

There are certainly more states, districts, and areas to which video conferencing needs to reach. With changing time, the technology has been evolving and with it has come the persistent need to set up better audio-visual facilities in jails, courts, Forensic Science Laboratories, etc. to ensure that justice is dispensed in a timely and faster manner.

### 1.3. EXPANDING THE USE OF VIDEO CONFERENCING IN COURTS

In the wake of the unprecedented coronavirus pandemic, the Supreme Court issued a series of directives to cope with the situation. Given the need to maintain social distancing

<sup>\*</sup> Data has been taken from data.gov.in as an Unstarred Question in Rajya Sabha on 11 July 2019. No data was available for certain states and areas.

<sup>&</sup>lt;sup>17</sup> eCommittee Supreme Court of India. 2016. *eCommittee Newsletter*. p. 16, available online at <a href="https://doj.gov.in/sites/default/files/eCommittee%20Newsletter%20-%20April%202016.pdf">https://doj.gov.in/sites/default/files/eCommittee%20Newsletter%20-%20April%202016.pdf</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>18</sup> State/High Court-wise Court Complexes and Corresponding Jails where Video Conferencing facility is operational (in reply to Unstarred Question on 11 July, 2019), from Ministry of Law and Justice, available online at <a href="https://data.gov.in/resources/statehigh-court-wise-court-complexes-and-corresponding-jails-where-video-conferencing">https://data.gov.in/resources/statehigh-court-wise-court-complexes-and-corresponding-jails-where-video-conferencing</a> (accessed on 9 April 2020).

and avoid mass gatherings and the current lockdown across the country, the Supreme Court has expanded the use of video conferencing to hearing of arguments at the trial stage and appellate stage, in addition to the recording of evidence, until appropriate rules are framed by the High Court.<sup>19</sup> As per the guidelines, courts are required to transition to the video conferencing technology based on the modalities determined by the respective High Courts.<sup>20</sup> Courts are also required to maintain a helpline for addressing complaints regarding proper quality and audibility of feed.<sup>21</sup>

Some High Courts have in the recent past issued guidelines for the use of video conferencing. Delhi High Court,<sup>22</sup> Jammu and Kashmir High Court,<sup>23</sup> Himachal Pradesh High Court,<sup>24</sup> Andhra Pradesh High Court<sup>25</sup>, etc. have issued guidelines and procedures that would regulate video conferencing. Broadly, these guidelines provide the scope for carrying out video conferencing in courts which pertain to the examination of witnesses, remands and bail applications, hearing of arguments, etc. Overall, the guidelines lay down the preparatory arrangements required for the video conference, requisite technical support required to conduct proceedings during the video conference, etc. However, it needs to be seen whether courts that have passed guidelines for the use of video conferencing in the past, will issue any fresh regulations post the Supreme Court's direction. Since there is a lockdown throughout the country, it would be important that video conferencing facilities be extended to other stages with detailed guidelines as provided by the Supreme Court.

### 1.4. MODE OF VIDEO CONFERENCING USED BY COURTS

Although various states are transitioning to the use of video conferencing techniques, it is important to examine the platform that is being used for these purposes. For instance, skype had been one of the options through which video conferencing was being carried

<sup>&</sup>lt;sup>19</sup> In Re: Guidelines for Court Functioning Through Video Conferencing During Covid-19 Pandemic, Suo Motu Writ (Civil) No.5/2020 in the Supreme Court of India.

<sup>&</sup>lt;sup>20</sup> In Re: Guidelines for Court Functioning Through Video Conferencing During Covid-19 Pandemic.

<sup>&</sup>lt;sup>21</sup> In Re: Guidelines for Court Functioning Through Video Conferencing During Covid-19 Pandemic.

<sup>&</sup>lt;sup>22</sup> Video Conferencing Guidelines Issued by the High Court of Delhi, available online at <a href="http://delhihighcourt.nic.in/writereaddata/Upload/PublicNotices/PublicNotice CQ84SWB5.PDF">http://delhihighcourt.nic.in/writereaddata/Upload/PublicNotices/PublicNotice CQ84SWB5.PDF</a> (accessed on 9 April 2020).

<sup>&</sup>lt;sup>23</sup> Guidelines for the Conduct of Court Proceedings between Courts and Remote Sites and the VC facilities set up at other places by the High Court of Jammu and Kashmir, 11 February 2020, available online at <a href="http://jkhighcourt.nic.in/doc/upload/notices/1282">http://jkhighcourt.nic.in/doc/upload/notices/1282</a> 11022020.pdf (accessed on 10 April 2020).

<sup>&</sup>lt;sup>24</sup> Video Conferencing Guidelines, High Court of Himachal Pradesh, available at <a href="https://hphighcourt.nic.in/pdf/VC%20 Guidelines HP HC.pdf">https://hphighcourt.nic.in/pdf/VC%20 Guidelines HP HC.pdf</a> (accessed on 11 April 2020).

<sup>&</sup>lt;sup>25</sup> Guidelines for hearing of cases through video conferencing during lockdown period in the subordinate courts, 8 April 2020, available at <a href="http://hc.ap.nic.in/docs/guidl.pdf">http://hc.ap.nic.in/docs/guidl.pdf</a> (accessed on 11 April 2020).

out. Certain High Courts have allowed parties to use skype for video conferencing. Help from external experts has also been taken in the past to establish special e-court rooms with video conferencing set up. For instance, the Centre for Development of Advanced Computing has developed technology for special e-court rooms in the Karkardooma district in Delhi which includes video conferencing and various other technical equipment. Delhi High Court has also been using CISCO WEBEX platform for video conferencing. In the recent past, the Supreme Court e-committee has been using the VIDYO platform for carrying out various video conferencing sessions. Currently, all the proceedings that are being conducted by the Supreme Court are being done on the VIDYO platform. As per the recent circular of the Delhi High Court, the VIDYO platform is being extended to various district officers in trial courts in Delhi, who would be given a separate login ID. To what extent these third-party video conferencing platforms can be relied upon from data and security standpoint, is a topic of important concern that needs deeper deliberation.

# 1.5. GUIDELINES AND RULES REGARDING VIDEO CONFERENCING IN OTHER SECTORS

While the Supreme Court and various high courts in the country have issued guidelines for the use of video conferencing, it is important to examine the guidelines issued by various authorities concerning the conduct of parties during the conference. Courts can adopt some of these measures wherever necessary and incorporate them in their detailed rules. Further, as provided below, different authorities have passed rules and regulations regarding the use of video conferencing under their respective legislations. Presently, while some High Courts have passed guidelines regarding video conferencing, it is

<sup>&</sup>lt;sup>26</sup> See Smt C. Surekha Naga Durga v. State of Andhra Pradesh and Ors., Criminal Revision Case No. 923 of 2017; Boppana Surendra v. The State of Andhra Pradesh, Criminal Petition No. 11823 of 2018; V. Rama Naidu And Another v. Smt. V. Ramadevi, Civil Revision Petition No. 6089 of 2016.

<sup>&</sup>lt;sup>27</sup> Rishi Prakash, T. Mohanty, Ramji Gupta & Vinay Jain. 2011. 'ICT in Indian Court, Challenges & Solution', *International Journal of Internet Computing (IJIC)*, 1(2): p. 24, available online at <a href="http://www.nja.nic.in/session%202.pdf">http://www.nja.nic.in/session%202.pdf</a> (accessed on 11 April 2020).

<sup>&</sup>lt;sup>28</sup> Circular for Creation of Login ID-VIDYO Application for Video Conferencing, District and Sessions Judge, Tis Hazari Court, Delhi, available online at <a href="https://delhidistrictcourts.nic.in/Circulars/March20/8aapril.pdf">https://delhidistrictcourts.nic.in/Circulars/March20/8aapril.pdf</a> (accessed on 10 April 2020).

<sup>&</sup>lt;sup>29</sup> Lalltaksh Joshi. 2020. 'Courts Adopting Video Conferencing: A Welcome Change', *Live Law*, 29 March, available online at

https://www.livelaw.in/columns/courts-adopting-video-conferencing-a-welcome-change-154488 (accessed on 9 April 2020).

important that definite rules under the necessary statute be passed to give a complete legal effect to the procedure.

(a) Ministry of Corporate Affairs Regulations regarding extraordinary general meeting (EGM), 2020

In the wake of the coronavirus pandemic, the Ministry of Corporate Affairs (MCA) has allowed companies to conduct EGMs through video conferencing and other audio-visual means (OAVM).<sup>30</sup> In furtherance of the requirement, the MCA laid down certain guidelines about the conduct of video conferencing and OAVM. As per the guidelines, companies are expected to maintain a recorded transcript of the EGM conducted via video conferencing or OAVM. The facility to join the meeting has to be kept open for 15 minutes before the start of the meeting and 15 mins after the completion of the meeting.<sup>31</sup> Proper arrangements have to be made to facilitate a smooth e-voting process.<sup>32</sup> Overall, care has to be taken to ensure that meetings through video conferencing or OAVM take place without any problems.

(b) Office of the Controller General of Patents, Design and Trade Marks guide to video conferencing

The set-up guide provides systemic requirements for carrying out video conferencing.<sup>33</sup> The guide provides minimum requirements such as the need for a Windows operating system, web camera, microphone, speakers, internet speed of 256 kbps, etc. during the video conference.<sup>34</sup> The guide suggests the use of InstaVC Desktop Sharing Extension for conducting video conferencing.<sup>35</sup> Further, the guide provides a screen by screen details of how the platform can be used by the user.<sup>36</sup>

(c) Income Tax Appellate Tribunals (ITAT) Regulations regarding video conferencing, 2012

The ITAT has passed detailed Regulations prescribing the manner in which video conferencing should be conducted. As per the Regulations, the hearing of appeals has to

<sup>&</sup>lt;sup>30</sup> Ministry of Corporate Affairs, General Circular No. 14/2020, 8 April 2020, available online at <a href="http://www.mca.gov.in/Ministry/pdf/Circular14">http://www.mca.gov.in/Ministry/pdf/Circular14</a> 08042020.pdf (accessed on 10 April 2020).

<sup>&</sup>lt;sup>31</sup> Ministry of Corporate Affairs, General Circular No. 14/2020.

<sup>&</sup>lt;sup>32</sup> Ministry of Corporate Affairs, General Circular No. 14/2020.

<sup>&</sup>lt;sup>33</sup> Office of Controller General of Patents, Designs & Trade Marks, Video Conferencing System, available online at <a href="http://www.ipindia.nic.in/IPO-Video-Conferencing-System.htm">http://www.ipindia.nic.in/IPO-Video-Conferencing-System.htm</a> (accessed on 10 April 2020).

<sup>&</sup>lt;sup>34</sup> Office of Controller General of Patents, Designs & Trade Marks, Video Conferencing System.

<sup>35</sup> Office of Controller General of Patents, Designs & Trade Marks, Video Conferencing System.

<sup>&</sup>lt;sup>36</sup> Office of Controller General of Patents, Designs & Trade Marks, Video Conferencing System.

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be notified by the President of the tribunal from time to time. The Regulations state that the hearing would proceed in the same manner as in a regular tribunal. Bench clerks have to be present throughout the hearing and make entries in the order sheets. Apart from hearing of appeals, video conferencing can also utilised for recording of evidence. Pronouncement of orders can be done via video conferencing and once the order is signed the same has to be uploaded on the website as is usually done in a regular hearing.<sup>37</sup>

<sup>37</sup> Income Tax Appellate Tribunal, Practice Note, 9 November 2012.

### 2. RELATED PROCESSES

Video conferencing alone will not make courts virtual. Other related processes of digitisation and automation need to be implemented alongside. A virtual court is only a part of the larger digitisation of the justice system. A citizen-centric justice platform that enables all stakeholders to seamless interact digitally needs to be built. DAKSH White Papers on Next Generation Justice Platform provide a framework for such a platform. <sup>38</sup> The following processes are key for the success of video conferencing:

### 2.1. E-FILING

E-filing is the ability to submit pleadings and other documents required in a case online. These documents can be accessed by the registry or the concerned judge. According to the e-filing manual of the Supreme Court e-committee<sup>39</sup>, procedures like the payment of court fees online and e-signatures can be done through the use of Aadhar card or a digital token. The registered user can view his profile with the options of seeing all the submitted documents and track whether the documents have been reviewed, accepted or denied.

E-filing is essential for video conferencing of cases to take place in a virtual courtroom. In the current form, e-filing is available only in four High Courts – Delhi, Bombay, Punjab and Haryana, and Madhya Pradesh<sup>40</sup>, and is also used in National Green Tribunal,<sup>41</sup> National Company Law Tribunal<sup>42</sup> and Income Tax Appellate Tribunal.<sup>43</sup> Documents filed through e-filing are easier to store and retrieve than physical documents, apart from the saving of paper and the effort of physical filing. These documents are then accessible 24\*7 judges, court staff and concerned parties<sup>44</sup>. There is tremendous scope for improving

<sup>&</sup>lt;sup>38</sup> DAKSH. 2019. Whitepaper series on Next Generation Justice Platform, available online at <a href="https://dakshindia.org/next-generation-justice-platform/">https://dakshindia.org/next-generation-justice-platform/</a> (accessed on 11 April 2020).

<sup>&</sup>lt;sup>39</sup> E-Committee, Supreme Court of India. 2018. 'User manual, E-filing procedure for high courts and district courts in India'. *E-Courts*. available online at <a href="https://ecourts.gov.in/ecourts-home/static/manuals/efiling-User-manual.pdf">https://ecourts.gov.in/ecourts-home/static/manuals/efiling-User-manual.pdf</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>40</sup> Times of India.2018. 'E-filing service only at four high courts in India', *Times of India*, 10 April. available online at <a href="https://timesofindia.indiatimes.com/india/e-filing-service-only-at-four-high-courts-in-india/articleshow/58100660.cms">https://timesofindia.indiatimes.com/india/e-filing-service-only-at-four-high-courts-in-india/articleshow/58100660.cms</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>41</sup> National Company Law Tribunal. 'E-filing'. available online at <a href="https://efiling.nclt.gov.in/mainPage.drt">https://efiling.nclt.gov.in/mainPage.drt</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>42</sup> National Green Tribunal. 'E-Filing'. available online at <a href="https://ngtonline.nic.in/efiling/mainPage.drt">https://ngtonline.nic.in/efiling/mainPage.drt</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>43</sup> Appellate Tax Tribunal 'E-filing'. available online at <a href="https://www.itat.gov.in/page/content/appeal-efiling">https://www.itat.gov.in/page/content/appeal-efiling</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>44</sup> James E. McMillan, 2010. 'Electronic Documents: Benefits and Potential Pitfalls' Future Trends in State Courts.

the current facility of e-filing by extending it to more courts and by having a more intuitive platform that enables other parties to view and share documents and automating the process of manual checks of the documents submitted etc.

### 2.2. ELECTRONIC EVIDENCE MANAGEMENT

Section 3 of the Indian Evidence Act, 1872 has been amended to allow the submission of electronic evidence in courts. Electronic evidence means the recording of evidence in an electronic form on hard disks, digital photographs, audio, and video recordings, etc.<sup>45</sup>

Electronic evidence management is the digital storage of evidence related to a case in one place, which can be accessed by the parties and judges as per the rules of evidence. This means that every item of evidence in a case is digitally stored on a platform for easy accessibility. Such a management tool eliminates the use of different devices like CDs, pen-drives, etc. Oral evidence and statements would be transcribed and e-documents, submission of audio-video recordings, and digital photographs will all be available in a single digital folder. The eCourts Mission Mode Project Phase II envisages video conferencing facilities for all district courts and prisons but does not deal with the management of electronic evidence. For a virtual court to reach its full potential it is important to have an electronic evidence management feature.

#### 2.3. DOCUMENT AND CASE MANAGEMENT

A system for convenient storage, retrieval, and documentation is essential to enable a virtual court to function effectively. The eCourts Mission Mode Project Phase II <sup>48</sup> stresses the need for digitising records and the ability to retrieve relevant documents without any hassle, but this has not yet been implemented. Case management is crucial to understand the flow of cases and to have provisions for relevant case information and necessary documents for every process in the case to be available in a digital format. Under the

<sup>&</sup>lt;sup>45</sup> Section 67A, Evidence Act, 1872.

<sup>&</sup>lt;sup>46</sup> Sean E. Goodison, Robert C. Davis, and Brian A. Jackson.2015 'Digital Evidence and the U.S. Criminal Justice System' Priority Criminal Justice Needs Initiative. available online at <a href="https://www.ncjrs.gov/pdffiles1/nij/grants/248770.pdf">https://www.ncjrs.gov/pdffiles1/nij/grants/248770.pdf</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>47</sup> Joint Technology Committee. 2016. 'Managing Digital Evidence in Courts' National Center for State Courts. United States. available online at <a href="https://www.ncsc.org/~/media/Files/PDF/About%20Us/Committees/[TC/]TC%20Resource%20Bulletins/Digital%20Evidence%203-14-2016%20FINAL.ashx">https://www.ncsc.org/~/media/Files/PDF/About%20Us/Committees/[TC/]TC%20Resource%20Bulletins/Digital%20Evidence%203-14-2016%20FINAL.ashx</a> (accessed on 13 April 2020).

<sup>&</sup>lt;sup>48</sup> E-Committee, Supreme Court of India. 2014. 'Policy and Action Plan Document Phase II of the E-Courts Project'. E-Courts. available online at <a href="https://ecourts.gov.in/ecourts">https://ecourts.gov.in/ecourts</a> home/static/manuals/PolicyActionPlanDocument-PhaseII-approved-08012014-indexed Sign.pdf (accessed on 12 April 2020).

current system, case management exists only in the form of providing basic case and hearing information.

### 2.4. LISTING PRACTICES

Improving listing practices can go a long way in helping judges manage their caseload and bring more certainty for lawyers and litigants. Cases should be listed based on the workload of the judge, case type, and the subject matter of the case. For the efficient functioning of a virtual court, it is important to have two causelists for a court, one that lists the general hearing of cases in a physical courtroom, and the second for hearings that will take place in a virtual court where each party should be allotted a time slot. The courts should then conduct the hearings in the allocated time in the virtual court to prevent the disruption of the physical hearings or prioritisation of one over the other. Listing practices can be optimised with the use of algorithms that can assess the needs of the court and its workload to make the best use of court resources.<sup>49</sup> Effective scheduling of cases is an indispensable part of the success of a virtual court.

<sup>&</sup>lt;sup>49</sup> DAKSH. 2019. Whitepaper Series on Next Generation Justice Platform, Paper 2: Transition and Implementation. Bengaluru: DAKSH.

# 3. FACTORS AND CIRCUMSTANCES TO BE CONSIDERED FOR A VIRTUAL COURT

The use of video conferencing in courts can save time and effort for litigants and witnesses who are outstation and can enable courts to function in situations when physical presence is made difficult due to situations such as pandemics, civil unrest, etc.<sup>50</sup> But video conferencing cannot be used across all courts and all stages of a case.

# 3.1. FACTORS TO BE CONSIDERED BEFORE IMPLEMENTING VIDEO CONFERENCING

The broad factors that need to be kept in mind before implementing video conferencing are as listed below:

### (a) Scarce resources

At the current stage of technology, there isn't enough bandwidth or infrastructure to enable all courts to conduct hearings through a virtual court. The quality of video conferencing depends on the availability of high-speed internet and high-quality hardware and software. eCourts Mission Mode Project Phase II has prescribed video conferencing facilities in one courtroom in every district court complex.<sup>51</sup> Hence, it is important to start the video conferencing facility for selected case types or certain stages. The advantage of this approach is that it requires fewer resources and gives an opportunity to evaluate the initial rollout to make improvements when the rollout is more widespread.

# (b) Digital illiteracy

In India, at least 30 per cent of the population lacks basic literacy, and when it comes to digital literacy, the rate is about three times the illiteracy rate.<sup>52</sup> Though the National

<sup>&</sup>lt;sup>50</sup> Daniel Devoe and Sarita Frattarol, 'Videoconferencing in the Courtroom: Benefits, Concerns, and How to Move Forward' Social law, Boston. available online at <a href="http://socialaw.com/docs/default-source/judge-william-g.-young/judging-in-the-american-legal-system/04devoe-sarita-paper.pdf">http://socialaw.com/docs/default-source/judge-william-g.-young/judging-in-the-american-legal-system/04devoe-sarita-paper.pdf</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>51</sup> E-Committee, Supreme Court of India. 2019. eCourts Project Phase II Objectives Accomplishment Report As per Policy Action Plan Document, Delhi: Supreme Court of India. available online at <a href="https://ecourts.gov.in/ecourts-home/static/manuals/Objectives%20Accomplishment%20Report-eCourts-final\_copy.pdf">https://ecourts.gov.in/ecourts-home/static/manuals/Objectives%20Accomplishment%20Report-eCourts-final\_copy.pdf</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>52</sup> Financial Express. 2018. 'A look at India's deep digital literacy divide and why it needs to be bridged'. Financial Express, 24 September. available online at <a href="https://www.financialexpress.com/education-2/a-look-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-page-100k-p

Digital Literacy Mission<sup>53</sup> has the objective of providing digital literacy skills across rural areas, this objective is far from being realised. In the conversation of accessibility of information, this becomes extremely vital given the importance of access to justice for all. While implementing virtual courts, it is essential to ensure that digital illiteracy is not a hindrance to litigants accessing justice. The implementation of virtual courts must be accompanied by provisions for assisting digitally illiterate people.

### (c) Consent of parties

The consent of the parties is essential for the hearing to be conducted through a virtual court. Principles of due process and the right to access justice should not be violated to enable a virtual courtroom. More deliberation is required on how courts can take the lead to persuade litigants and lawyers to use technological facilities.

# 3.2. CIRCUMSTANCES WHERE VIDEO CONFERENCING CAN BE IMPLEMENTED

Keeping in mind the factors listed above, video conferencing can be implemented depending upon any of the following:

### (a) Nature of the case

Certain cases depending on their simplicity or sensitive nature may be more suitable for the implementation of video conferencing. E.g. for cases under Protection of Children from Sexual Offence, 2012, the legislation itself suggests the use of video conferencing to record the child's testimony to protect the interests of the child.<sup>54</sup> In certain other cases like ex-parte cases where the case is relatively simple, the courts can consider using video conferencing. The section of this paper regarding discussion points on video conferencing being the default mode for hearings in select situations elaborates on this further.

# (b) Specific circumstances or stages

The High Courts can enforce the use of video conferencing facilities for certain stages or circumstances of a case, e.g. the evidence stage of cases that requires the presence of a witness/expert witness to testify from a remote location. The option of video conferencing

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<sup>&</sup>lt;u>at-indias-deep-digital-literacy-divide-and-why-it-needs-to-be-bridged/1323822/</u> (accessed on 12 April 2020).

National Digital Literacy Mission, NASSCOM Foundation. available online at <a href="https://nasscomfoundation.org/national-digital-literacy-mission/">https://nasscomfoundation.org/national-digital-literacy-mission/</a> (accessed on 12 April 2020)

<sup>&</sup>lt;sup>54</sup> Section 36, POSCO Act, 2012.

can also be used when the counsel if in a different location from the court. Based on application – regardless of nature or stage of a case. The section of this paper regarding discussion points on video conferencing being the default mode for hearings in select situations elaborates on this further.

### (c) By application

Parties to a case should have an option of requesting hearings through video conferencing. The concerned judge should decide on such a request after hearing the opposite parties. The rules governing virtual courts should specify guidelines on the basis of which judges can decide upon such requests.

### (d) Urgent cases

In an emergency when the courts' day-to-day activities have to be limited or stopped, only urgent matters should be heard through a virtual court. The meaning of 'urgent' should be construed as cases that require immediate attention. Many countries have detailed policies and guidelines for such emergencies or pandemics.<sup>55</sup>

In civil cases, urgency can be construed as the possibility of unquantifiable loss or irreversible damage or if there is imminent threat of loss of property.<sup>56</sup> An application should be made to the relevant court by providing reasons as to why the case falls under the category of urgent cases. The cases that were originally scheduled to have hearings during the period of emergency should be given preference. In family court cases, urgency could include cases related to child care, custody, and restraining orders to protect vulnerable groups<sup>57</sup>. It is necessary to point out here that during the lockdown of countries due to the pandemic caused by COVID 19, there has been an increase in the number of domestic violence cases reported in India and other countries.<sup>58</sup>

<sup>&</sup>lt;sup>55</sup> Bureau of Justice Assistance. 2007. 'Guidelines for Pandemic Emergency Preparedness Planning: A Road Map for Courts', available online at <a href="https://biotech.law.lsu.edu/blaw/flu/bja-courts-roadmap-2007.pdf">https://biotech.law.lsu.edu/blaw/flu/bja-courts-roadmap-2007.pdf</a> (accessed on 13 April 2020).

<sup>&</sup>lt;sup>56</sup> Australian Capital Territory Civil and Administrative Tribunal 'Urgent Hearings' available online at <a href="https://www.acat.act.gov.au/hearings/urgent-hearings">https://www.acat.act.gov.au/hearings/urgent-hearings</a> (accessed on 12 April 2020).

Ontario Courts, 'Urgent Matter'. available online at <a href="https://www.ontariocourts.ca/ocj/covid-19/definitions-urgent-matters/">https://www.ontariocourts.ca/ocj/covid-19/definitions-urgent-matters/</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>58</sup> Emma Graham-Harrison. 2020. 'Lockdowns around the world bring rise in domestic violence' *The Guardian*, 28 March available online at <a href="https://www.theguardian.com/society/2020/mar/28/lockdowns-world-rise-domestic-violence">https://www.theguardian.com/society/2020/mar/28/lockdowns-world-rise-domestic-violence</a> (accessed on 12 April 2020).

For criminal cases, during an emergency, bail applications should be given preference as it involves the loss of personal liberty. Cases that have reached the sentencing stage should be considered as cases that require immediate attention.<sup>59</sup> During emergencies courts should use 'video conferencing as the norm' and physical appearances as the exception'. <sup>60</sup>

The courts should be mindful and balance the rule of law, protect fundamental rights<sup>61</sup> and address the concerns of an emergency. High Courts should lay out detailed plans as to what constitutes 'urgent cases' in emergencies.<sup>62</sup>

### (e) Cases before certain tribunals and quasi-judicial bodies

Cases heard by certain tribunals and quasi-judicial bodies on matters such as motor accidents and consumer cases may be relatively simple in terms of the application of law and the nature of evidence. Such tribunals can save time by moving to a virtual court setup. Many tribunals like the National Green Tribunal and the Income Tax Appellate Tribunal are embracing video conferencing facilities to hear cases and this has helped them in emergencies like the COVID-19.63 Other tribunals like the Central Administrative

https://economictimes.indiatimes.com/news/economy/mumbai-itat-initiates-skype-whatsapp-hearing-for-urgent-matters-amid-the-pandemic-outbreak/articleshow/74750273.cms (accessed on 12 April 2020). M Padmakshan. 2012. 'ITAT: Four new e-courts to be launched, hearing through video-conferences', *The Economic Times*, 23 November. available online at <a href="https://economictimes.indiatimes.com/news/politics-and-nation/itat-four-new-e-courts-to-be-launched-hearing-through-video-conferences/articleshow/17329137.cms">https://economictimes.indiatimes.com/news/politics-and-nation/itat-four-new-e-courts-to-be-launched-hearing-through-video-conferences/articleshow/17329137.cms</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>59</sup> Hong Kong Guidelines on Urgent Hearings. available online at <a href="https://www.judiciary.hk/doc/en/court\_services\_facilities/gap\_urgent\_hearing\_20200309\_20200322.pdf">https://www.judiciary.hk/doc/en/court\_services\_facilities/gap\_urgent\_hearing\_20200309\_20200322.pdf</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>60</sup> Interview with Arvind Datar, Senior Advocate (10 April 2020) *Bar and Bench*, available online at <a href="https://www.barandbench.com/interviews/in-camera-senior-lawyers-should-insist-on-having-conferences-through-video-senior-advocate-arvind-datar-video">https://www.barandbench.com/interviews/in-camera-senior-lawyers-should-insist-on-having-conferences-through-video-senior-advocate-arvind-datar-video</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>61</sup> Bureau of Justice Assistance. 2007. 'Guidelines for Pandemic Emergency Preparedness Planning: A Road Map for Courts'.

<sup>&</sup>lt;sup>62</sup> Sandhya PR. 2020. 'Corona is a wake up call for Indian courts. They aren't equipped to function in a crisis', *The Print*, 27 March 2020. available online at <a href="https://theprint.in/opinion/corona-is-a-wake-up-call-for-indian-courts-they-arent-equipped-to-function-in-a-crisis/389224/">https://theprint.in/opinion/corona-is-a-wake-up-call-for-indian-courts-they-arent-equipped-to-function-in-a-crisis/389224/</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>63</sup> Press Trust of India. 2020. 'Guj: NGT video conference system tested, may go live in Apr', Business Standard, 7 March. available online at <a href="https://www.business-standard.com/article/pti-stories/guj-ngt-video-conference-system-tested-may-go-live-in-apr-120030700991">https://www.business-standard.com/article/pti-stories/guj-ngt-video-conference-system-tested-may-go-live-in-apr-120030700991</a> 1.html (accessed on 12 April 2020). Maulik Vyas. 2020. 'Mumbai ITAT initiates Skype, WhatsApp hearing for urgent matters amid the pandemic outbreak', Economic Times, 21 March. available online at

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Tribunal is seeing the consequence of not having initiated digitisation reforms and are struggling to cope during the current situation.<sup>64</sup>

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<sup>&</sup>lt;sup>64</sup> *PTI*. 2020. 'COVID-19 Lockdown: No infrastructure to conduct hearings through video conference, says CAT', *Deccan Herald*, 11 April, available online at <a href="https://www.deccanherald.com/national/covid-19-lockdown-no-infrastructure-to-conduct-hearings-through-video-conference-says-cat-824047.html">https://www.deccanherald.com/national/covid-19-lockdown-no-infrastructure-to-conduct-hearings-through-video-conference-says-cat-824047.html</a> (accessed on 12 April 2020).

### 4. ARCHITECTURE OF AN IDEAL VIRTUAL COURT

A key determining factor for the successful implementation of a virtual court system is the architecture of such a virtual court. The features available in a virtual court structure must satisfy the needs and requirements of the judiciary while providing the facilities and atmosphere of a physical court. To this end, an ideal virtual court must be a single unified platform wherein facilities for calls, meetings, messaging, document sharing, and other necessities are provided.

To understand the features of an ideal virtual court, it is first important to identify the types of use cases in video conferencing hearings. There are four layers of access to be provided in a virtual court set-up, depending on the user of the facility as shown in Figure 2.

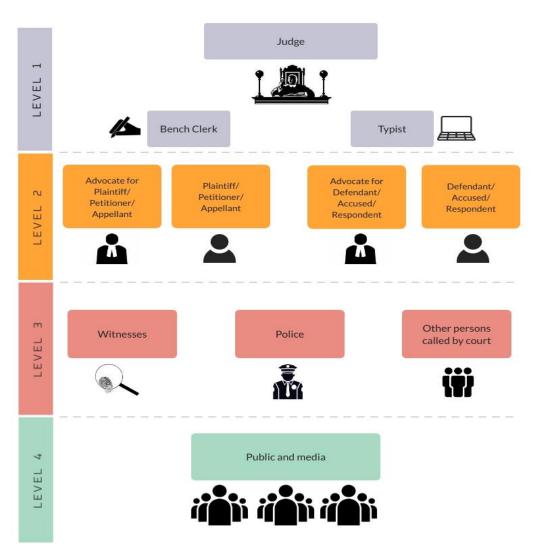


Figure 2: Levels of access in virtual courts

The levels of access shown in Figure 2 range from one to four. Level one access allows for unified management diagnostics, i.e. easy access to providing rights, managing, and administering services through a single unified virtual court. Level two access permits the use of a restricted number of features, level three access allows participants to watch and speak at proceedings, and level four access only allows participants to watch proceedings. The architectural design and access levels to various features in the virtual court are described below in the sequence in which hearings will take place through video conferencing.

#### 4.1. LISTING OF CASES AND ACCESSING THE VIRTUAL COURT

Keeping in line with the practice of releasing the causelist for a court on the day before the date of hearing, the causelist for hearings through video conferencing in a virtual court will also be released online the day before the date of hearing. Along with the regular details in a causelist such as the stage, case number, and names of parties and advocates, the causelists for hearings in a virtual court will also contain an additional column with the links to join the video conferencing facility in the virtual court.

Judges and court staff will be provided a universal link to log into the virtual court with level one access, and participants of specific cases will be provided case-specific links with level two or level three access. The causelist for hearings in a virtual court will also contain the time at which the case will be heard based on time slots to be determined by the judge hearing the case after taking into account the nature of the case and its stage. Accordingly, links to join the video conference of a specific case as a party, advocate, or witness, etc. will be unique to each case and can only be logged into 30 minutes before the hearing of a case.

The links to join case hearings through video conferencing can be of two types, open court hearings or private court hearings. Cases that would have been heard in the ordinary course in open courts will be provided a link to open court hearings which can be viewed by the public. However, cases of a sensitive nature that would have had in-camera proceedings and not heard in open court, will be provided a link to join a private court hearing where the public will not be permitted to view the hearings.

The causelist for a day will also provide a live link for streaming the court proceedings on a streaming platform. This link will be accessible to the public and media, and can be used to view court proceedings.

### 4.2. AUTHENTICATION TO LOG INTO THE VIRTUAL COURT SYSTEM

Participants seeking level one access and logging into the virtual court as a judge, bench clerk, or typist will be required to enter their name, an official ID number to be provided by the court, upload a clear photo of their official ID, enter their mobile number, and a one-time password (OTP) sent to their mobile phone to log in.

Participants logging into the virtual court for a specific case will be asked if they seek to join the video conference as a party, advocate, or person called by the court. Participants seeking level two access and logging into the virtual court for a specific case as a plaintiff/ petitioner/ appellant, advocate for plaintiff/ petitioner/ appellant, defendant/ accused/ respondent, or advocate for defendant/ accused/ respondent will have to enter their name and select whether they are a party or an advocate for a party. If they are a party, they must select the number of the plaintiff/ petitioner/ appellant or defendant/ accused/ respondent (whether they are plaintiff one, or two, or three, etc.), and if they are an advocate they must select the number of the plaintiff/ petitioner/ appellant or defendant/ accused/ respondent that they are representing. Advocates must upload a clear photo of their bar council ID, while parties must upload a clear photo of any government-issued photo ID card. They will also be required to enter their mobile number and the OTP sent to their mobile phone to log in.

Participants seeking level three access and logging into the virtual court for a specific case as a witness, police, or any other person called by the court will be required to enter their name, upload a clear photo of a government-issued photo ID card (the police will be required to upload a clear photo of their official ID card), enter their mobile number and the OTP sent to their mobile phone to log in.

Participants seeking level four access and logging into the live streaming platform of the virtual court as the public or media will be required to enter their name, upload a clear photo of a government-issued photo ID card (media personnel will be required to upload

a clear photo of their official media photo ID card), enter their mobile number and the OTP sent to their mobile phone to log in.

# 4.3. LOGGING INTO THE VIRTUAL COURT SYSTEM - JOINING THE VIDEO CONFERENCE AND AUDIO-VIDEO CHECK

Participants seeking level two or level three access may log into the virtual court system no earlier than 30 minutes before the scheduled time of their hearing, but must mandatorily be logged in 15 minutes before such scheduled time. After entering their details as described in the previous step, participants will be required to permit their devices to access their camera and microphone and check their audio and video settings to ensure that they are functional, before joining the video conference. Participants must sit facing a light source to ensure their faces are visible. Participants must also ensure that there is a space of half a metre on either side of them to allow room for hand and arm gestures.

Participants seeking level two or level three access will be made to wait in a virtual waiting room until the judge or court staff marks the previous case as completed and is ready for their case. Participants will be automatically put on mute when they join the video conference and will be unmuted by the judge or court staff before the commencement of the hearing. Further, no participant will be given the option to mute their microphone at their end, only the judge and court staff will be given the option of muting a participant.

The number of participants seeking level four access will be restricted to a maximum of 50 people on account of limited bandwidth. Access to the 50 slots will be provided on a first come first served basis with slots being made available if any person leaves the virtual court hearing.<sup>65</sup> If any person leaves the virtual court window for more than three minutes, they will be automatically logged out and that slot will be given to the next person in the queue.

### 4.4. SCREENS VISIBLE TO PARTICIPANTS

On joining the video conference, the screen visible to participants will vary depending on the type of user and the features they can use. Figures 3 to 8 display examples of the screens that different users can see. The broad framework envisaged for the screens is to

<sup>&</sup>lt;sup>65</sup> Currently in the Supreme Court, as per the circular issued by it on 23 March 2020, the Deputy Registrar (Public Relations Officer) is empowered to permit three media persons to be inside the video conference room when a bench may take up extremely urgent matters. Supreme Court of India. 2020. Circular, 23 March, available online at <a href="https://main.sci.gov.in/pdf/cir/23032020">https://main.sci.gov.in/pdf/cir/23032020</a> 153213.pdf (accessed on 11 April 2020).

replicate a physical courtroom setting with the judge in front of the two parties, as far as possible in a virtual setting. The plaintiff/ petitioner/ appellant or their advocate will be displayed on the bottom left corner depending on who is speaking or who last spoke. The defendant/ accused/ respondent or their advocate will be displayed on the bottom right corner depending on who is speaking or who last spoke. If a witness is speaking, the face of the witness will appear in the middle while the faces of other parties will move to the sides. Further, each party will see the options available to them depending on their access level. The features shown on the screens are explained in the subsequent paragraphs.

Figure 3: Screen for a defendant/ accused/ respondent or their advocate

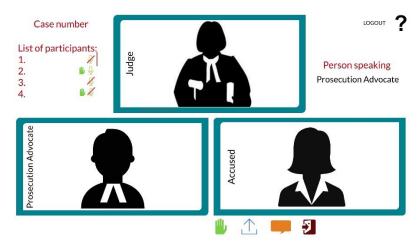
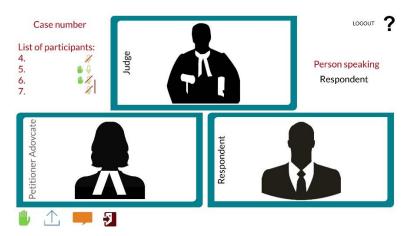


Figure 4: Screen for a plaintiff/ petitioner/ appellant or their advocate



**Figure 5**: Screen for a witness, police, or other persons called by court (can only view proceedings and speak when called upon to speak)

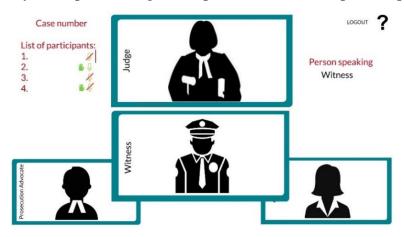


Figure 6: Screen for a judge or court staff

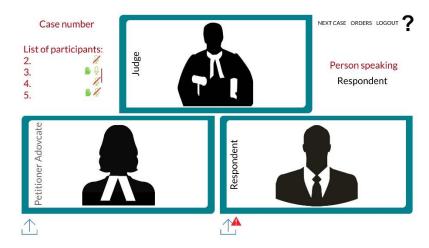


Figure 7: Screen for a judge or court staff while passing orders

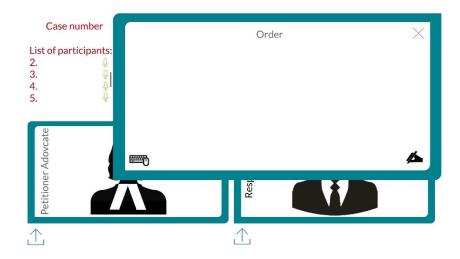
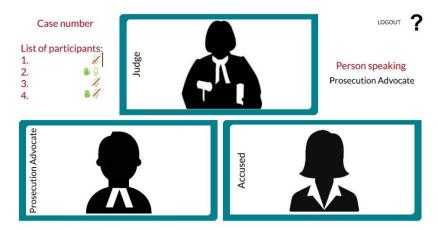


Figure 8: Screen for the public and media



### 4.5. SPEAKING DURING THE HEARINGS

Participants in a case will be permitted by the judge or court staff to join the video conference when it is time for a particular case to be heard as per the timing provided in the causelist, and after the previous hearing has concluded. When a person enters or leaves the video conference, all the other participants will be alerted.

All participants will be on mute on joining the video conference and the judge or court staff will unmute all participants. The judge must instruct all participants to use the green hand-raising feature if they wish to speak and the judge may then call on the participants to speak one after the other. To avoid participants talking over each other or any disturbances, the judge(s) or their staff may mute other participants while one is

speaking. The use of such a muting feature may however only be used as an exceptional means to optimise the use of video conferencing and must in no way impinge upon a party's/advocate's right to speak and express themselves as per the law. The judge must allow the opportunity for all parties whose hands are raised to speak before concluding the hearing of a case.

In the event that a litigant wishes to privately speak to their advocate or vice versa during a hearing, they may use the orange chat button on their screen and select who they wish to chat with and a private pop-up chat box will appear for their use. If a litigant wishes to speak over video to their advocate privately or vice versa, they may use the purple door button to enter a breakroom wherein a private pop-up video conference window will appear. To maintain attorney-client privilege, the video and audio recording of this breakroom will be private and not available to any other participant of the video conference. The proceedings in the virtual courtroom will be muted until they exit the breakroom and re-join the virtual courtroom. The judge may pause the proceedings while the breakroom conversation is going on. However, caution must be to not delay the proceedings in the hearing.

### 4.6. SHARING DOCUMENTS

During a hearing, if either party wishes to submit a document to the court, they may use the blue upload button available on their screen to upload a document for the judge and court staff to view. A document uploaded by any party will at first only be viewable by the judge and court staff. They may authorise the document to be shared with other parties. Once a document has been uploaded by a party, the judge and court staff will then see a red exclamation mark next to that party's document upload button - this indicates that a document has been uploaded, and an action is required. The judge or court staff may then click on that party's document upload button to see two options, the first to share the document with other participants that the judge or court staff select, and second to download the document.

### 4.7. PASSING OF ORDERS

On the conclusion of a hearing, the judge may use the 'orders' button located on the top right corner of the screen to type out an order. The judge's typist will also have the same screen as the judge and will see the orders dialog box open up when the judge clicks on the 'orders' button. The typist can then type out the order pronounced by the judge and

the judge will view the typing in real-time. The judge may click on the keyboard button at the lower left end of the orders dialog box to type and make any changes to the order. Once the order has been prepared, the judge may then click on the signature button on the lower right corner of the order dialog box to insert a digital signature to the order, this will make it an original copy of the order. The order will then be made available in the normal course on the website of the High Court or on e-Courts for the trial courts.

### 4.8. TRANSCRIPT AND RECORDING OF HEARINGS

The video recording for all hearings conducted in a virtual court shall be stored by the courts for a period to be decided by the courts. Further, there will be in place an automatic system for voice to text transcription. The automated voice to text and subtitling capabilities will ensure that there is a text record of all proceedings that can be stored by the courts. Such text records will be stored and segregated as per the case number, these records can be used by the courts as a summary of proceedings in cases much like the hand notes currently used on physical paper files.

The automated voice to text transcription feature will also ensure that the text of the evidence provided by a witness is transcribed. On completion of a hearing, the judge or court staff may email a copy of such witness testimony to the witness, require them to sign the copy and send a scanned version of the document back to the court for its records.

#### 4.9. HELP DURING THE HEARINGS

All participants in a virtual court will be able to see a black question mark help button on the upper right-hand corner of the screen. Any participant who clicks on that help button will then see a pop-up help window which will contain a user guide with features available to a participant at their access level. If the user guide does not help solve the problem faced by a participant, the participant may click on a 'support' button at the end of the pop-up window to see a helpline number.

To ensure that the virtual court hearings proceed smoothly without any disturbances, it is vital that ample and regular training be provided to judges and court staff regarding the functionalities in a virtual court. Further, robust training must be provided to court staff who are listed as support contacts to attend to the needs of participants in a timely fashion without delay and provide them the support they require. These trainings can

also be used to elicit user feedback about the functioning of the virtual court and make changes to the architecture accordingly.

### 4.10. REQUESTS OR MENTIONING IN THE VIRTUAL COURT

As hearings in a virtual court are conducted online through video conferencing with no physical meetings, requests for hearings to be adjourned, or mentioning of cases to be heard on that day, or requests to be heard in private must be received at least two hours before the commencement of court hearings for the day. All such requests shall be made through an online form to be provided on the website of the High Courts or on e-Courts for the trial courts. The online form must capture case number, the name of the advocate, their contact details, a photo of their bar council ID card, a summary of the request, along with an upload of their request application/memo.

Judges must review all such requests before the commencement of hearings for the day. The judge may either accept or deny the requests and the parties and their lawyers will be informed accordingly. If the judge accepts a request to hear a case on an urgent basis on that day, the party will be provided a link to join the video conference and will have to be on standby to be heard at the start of hearings on that day.

#### 4.11. FEATURES OF A VIRTUAL COURT AND PRIORITY FOR IMPLEMENTATION

Table 1 provides a list of the features in an ideal virtual court and provides a gradation for the priority of such features in the implementation of a virtual court.

Sl. No. Sub-feature **Feature Priority** 1 Listing of cases and Open hearings with public High accessing the virtual court Private hearings High Medium Links for hearings and their timeslots in the causelist 2 Photo of official or High Authentication to log into the virtual court government-issued photo ID system card Mobile number and OTP High

**Table 1**: List of features with priority for implementation

Sl. No.	Feature	Sub-feature	Priority
3	Logging into the	Check camera, lighting, and	High
	virtual court system -	space	
	joining the video	Check audio and video	High
	conference and audio-	Waiting room	Medium
	video check	Limit number of public	Medium
		viewers	
4	Screens visible to	Plan the screens and features	Medium
	participants	visible to various	
		participants	
5	Speaking during the	Entry and exit ping noises	High
	hearings	Raising hand feature	Medium
		Muting feature	Medium
		Private conversation - chat,	Low
	C1 · 1	and/ or breakroom	TT' 1
6	Sharing documents	Uploading documents to be	High
		shared with the judge and	
7	Passing of orders	parties Scroon sharing between	High
1	Passing of orders	Screen sharing between judge and court staff	riigii
		Digital signature of the judge	High
8	Transcript and	Voice to text transcription of	Low
	recording of hearings	hearings	LOW
	2000141119 011104111190	Recording of hearings	High
		Sending and receiving	Medium
		witness testimony	
		transcripts	
9	Help during the	User manuals	High
	hearings	Support contact	High
10	Requests or	Requests or mentioning	High
	mentioning in the	before hearings begin for the	
	virtual court	day	

### 5. DUE PROCESS CONCERNS

### 5.1. VULNERABLE WITNESSES

The use of video conferencing for testimonies of vulnerable witnesses needs to be thought through and implemented with necessary safeguards. There are two aspects to using video conferencing to record testimonies of vulnerable witnesses such as minors, those with language difficulties and who require an interpreter, those suffering from mental disorders or learning disabilities, those in need of immediate medical treatment, and those whose physical security is under threat.<sup>66</sup> When the physical security of a witness at a particular court or jurisdiction cannot be adequately addressed, video conferencing from a safe location can shield such a witness from intimidation and provide them a secure environment to testify. This can be ensured by the use of anonymous testimony or a screen, curtain, or two-way mirror to shield the witness while giving testimony.<sup>67</sup> These would be an extension of the witness protection measures already provided for in the Witness Protection Scheme, 2018 such as holding of in-camera trials, concealment of identity by referring to the witness by a pseudonym, or anonymising the visuals and audio of such witnesses. <sup>68</sup>

For younger witnesses who have grown up in the internet era and for whom the conduct of a meeting and interaction via video is commonplace and comforting, testifying via video conferencing may not involve the same issues of establishing trust and comfortable communication that people of a previous generation would face. For other vulnerable defendants e.g. those suffering from attention deficit hyperactivity disorder (ADHD) or on the autism spectrum, the multiple stimuli within a crowded court could be distracting and unnerving. Alternatively, they might have an anxiety disorder which is intensified by the requirement to testify in a courtroom filled with strangers. Video conferencing may provide a more secure environment for such witnesses, provided the right accommodations are made for them.

<sup>&</sup>lt;sup>66</sup> Jenni Ward. 2015. 'Transforming 'Summary Justice' Through Police-led Prosecution and 'Virtual Courts' Is 'Procedural Due Process' Being Undermined?.' British Journal of Criminology 55(2): 341-358, p. 350.

<sup>&</sup>lt;sup>67</sup> Karen Kramer. 2014. 'Witness protection as a key tool in addressing serious and organized crime'. available online at <a href="https://www.unafei.or.jp/publications/pdf/GG4/Fourth GGSeminar P3-19.pdf">https://www.unafei.or.jp/publications/pdf/GG4/Fourth GGSeminar P3-19.pdf</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>68</sup> Witness Protection Scheme, 2018 available online at <a href="https://crlreview.in/bills-acts-ordinances/witness-protection-scheme-2018-pdf-available/">https://crlreview.in/bills-acts-ordinances/witness-protection-scheme-2018-pdf-available/</a> (accessed on 12 April 2020).

<sup>&</sup>lt;sup>69</sup> Penelope Gibbs. 2017. 'Defendants on video–conveyor belt justice or a revolution in access?' *Transform Justice*, p. 25

<sup>&</sup>lt;sup>70</sup> Penelope Gibbs, 'Defendants on video-conveyor belt justice or a revolution in access?, p. 24

<sup>&</sup>lt;sup>71</sup> David Tait, et al. 2017 'Towards a Distributed Courtroom' Western Sydney University, available online at <a href="https://courtofthefuture.org/wp-">https://courtofthefuture.org/wp-</a>

For certain witnesses, the use of video conferencing for the examination and crossexamination of such witnesses may be unfamiliar, isolating, and may cause anxiety in an already vulnerable person and restrict effective communication.<sup>72</sup> In the Indian context, this may be so if the person is unfamiliar with computers and video conferencing. They must be assisted to help them understand the process of examination and crossexamination so that they can answer questions to the best of their capacity and face what can often be quite an aggressive cross-examination. This should be carried out in advance of the testimony in a safe space. This briefing should be done by a professional trained to work with vulnerable people such as a social worker or counsellor. The briefing may include videos of witnesses making simple statements, then being examined and crossexamined. The roles of the various lawyers, judges, and court staff should be explained to the witness.73 It is particularly important to ensure that vulnerable witnesses understand the role of the defence lawyer who can come across as aggressive. This is so that they do not perceive aggressive questioning as a personal attack or feel that they have done something wrong. They also need to be told that it is part of the job of the defence to express doubts about the veracity of their evidence and it is not an indictment of their character. 74

The judge should have the discretion to allow physical hearings instead of appearances on video conferencing in the interests of fairness. There should be an option for the witness or accused person to ask for themselves to be produced in court at a future hearing if they feel that their disability will make a video conference appearance difficult e.g. if the person is hard of hearing or requires special assistance.<sup>75</sup>

Courts will have to frame rules for accommodations for a vulnerable witness to testify. The information and functionality of the platform used for videoconferencing should accessible to all users including people with disabilities. The platform should comply with Guidelines for Indian Government Websites (GIGW) formulated by NIC so that people with disabilities can use it effectively. <sup>76</sup> Judicial and non-judicial staff also need to be trained to

<u>content/uploads/2017/07/170710 TowardsADistributedCourtroom Compressed.pdf</u> (accessed on 12 April 2020), p. 7.

<sup>72</sup> Penelope Gibbs 'Defendants on video-conveyor belt justice or a revolution in access?', p. 24.

<sup>&</sup>lt;sup>73</sup> P. Cooke, et al. 2002. 'The virtual courtroom: a view of justice. Project to prepare witnesses or victims with learning disabilities to give evidence' *Disability and Rehabilitation* 24(11-12): 634-642, 634.

<sup>&</sup>lt;sup>74</sup> The virtual courtroom: a view of justice. Project to prepare witnesses or victims with learning disabilities to give evidence, 638.

<sup>&</sup>lt;sup>75</sup> Penelope Gibbs 'Defendants on video-conveyor belt justice or a revolution in access?', p. 20.

<sup>&</sup>lt;sup>76</sup> 'Guidelines for Indian Government Websites' available online at <a href="https://web.guidelines.gov.in/tools-and-resources#accessibility">https://web.guidelines.gov.in/tools-and-resources#accessibility</a> (accessed on 12 April 2020).

implement these rules. At present, the Witness Protection Scheme, 2018 that the Supreme Court made applicable across India only provides for witnesses under physical threat.<sup>77</sup> These guidelines should be extended to witnesses with vulnerabilities such as medical conditions, physical, or mental disabilities.

## 5.2. FAIRNESS OF THE JUSTICE SYSTEM

The maxim 'Justice must not only be done but must be seen to be done' may sound cliched, but it is of great relevance in the context of video conferencing. Since the spatial organisation of video conferencing is so different from the setting of a physical court, efforts must be made to reassure litigants and lawyers that these virtual courts will approximate the experience of a physical court, as far as possible. Fairness implies transparency in procedures, conspicuous impartiality and consistency, explanation of rules and decisions, and the promotion of procedures that give parties a voice in the proceedings.<sup>78</sup> To illustrate this point in the context of criminal trials, a defendant may feel comfortable telling a judge before whom they are physically present about custodial violence, but cannot do so on video conference from prison because the prison staff are present in the same room. Therefore, the architecture of a video conference must allow the defendant to speak to their lawyer in confidence and speak to a judge without prison staff overhearing.

Citizens should feel confident that even in a virtual court their case will be heard on merits, while giving a fair hearing to all parties, leading to enforceable remedies, utilising procedures that are conspicuously fair and perceived to be so. Access to justice should extend beyond a citizen being able to complete an online form and should mean that they are comfortable with the process. The judicial system, whether online or offline, should give all citizens the ability to engage and participate. It must inspire confidence that they will be dealt with by fair procedures and will receive a substantively just outcome. This is especially important in a common law system where decisions of the High Courts and Supreme Court become the law, communicate and reinforce norms of social and economic behaviour, and provide a framework for the settlement of future similar disputes. <sup>79</sup>

#### 5.3. FAIR TRIAL GUARANTEES FOR CRIMINAL TRIALS

Criminal trials require a different set of safeguards because they involve an individual in confrontation with the state. How the state treats a person accused of a crime provides a

<sup>&</sup>lt;sup>77</sup> Mahender Chawla v. Union of India WP (Criminal) No. 156 of 2016.

<sup>&</sup>lt;sup>78</sup> Dame Hazel Genn, 'Online Courts and the Future of Justice' at Birkenhead Lecture, 2017, p. 13.

<sup>&</sup>lt;sup>79</sup> Dame Hazel Genn, 'Online Courts and the Future of Justice', p. 6.

concrete demonstration of how much it respects individual rights and liberties. In the context of video conferencing, it is important to bear in mind the following fair trial guarantees:

# (a) Right to counsel

Article 22(1) of the Indian Constitution provides that a person who is arrested shall not be denied the right to consult and to be defended by a legal practitioner of his choice. The Supreme Court has held that the right to access legal aid, to consult and to be defended by a legal practitioner, arises when a person arrested in connection with a cognizable offence is first produced before a magistrate. It is the duty and obligation of the magistrate before whom a person accused of committing a cognizable offence is first produced to make him fully aware that it is his right to consult and be defended by a legal practitioner, and in case he has no means to engage a lawyer of his choice, that one would be provided to him from legal aid at the expense of the state. The Supreme Court has extended this right to the police interrogation stage as well by stating that "If however an accused expresses the wish to have his lawyer by his side at the time of examination, this facility shall not be denied, because, by denying the facility, the police will be exposed to the serious reproof that they are trying to secure in secrecy and by coercing the will an involuntary self-incrimination." <sup>81</sup>

Even when hearings are conducted through video conferencing, judges must ensure that the defendant is represented by a lawyer. If the lawyer is not present, the judge must enquire why, arrange for a notice to be sent to the lawyer, and if necessary arrange for a change of lawyer. In a virtual court, the location of the defence lawyer in a different location from the defendant may prevent crucial consultation which otherwise takes place in a physical court. It is necessary to provide the defendant with a means to communicate privately with his attorney. The defendant should be able to signal their lawyer that they need to have a private conversation. The judge should permit such a conversation through a private communication channel to preserve confidentiality and attorney-client privilege.<sup>82</sup> The mechanism for this is explained in detail in the section on architecture of an ideal virtual court.

# (b) Cross-examination and challenging of evidence

<sup>80</sup> Md. Ajmal Kasab v. State of Maharashtra Criminal Appeal Nos.1899-1900 of 2011.

<sup>81</sup> Nandini Satpathy v. Dani (P.L.) 1978 AIR 1025.

<sup>&</sup>lt;sup>82</sup> Shari Seidman Diamond, et al. 2010. 'Efficiency and Cost: The Impact of Videoconferenced Hearings on Bail Decisions', *The Journal of Criminal Law and Criminology*, 100(3): 869-902, p. 899-900.

Section 138 of the Indian Evidence Act, 1872 provides for cross-examination of witnesses. The right to cross-examination enables the defendant to discover the source of the prosecution's evidence and to challenge its veracity and value.<sup>83</sup> It is a testing mechanism to delve into the meaning of the witness's statements, the truthfulness, memory, and perception of the witness. The reason why hearsay evidence is not considered admissible except in certain exceptional circumstances is hearsay cannot be put through a cross-examination.<sup>84</sup> Cross-examination is a craft perfected by effective trial lawyers. An effective cross-examination consists of "questions" that are not really questions at all but are assertions of fact, based on information already known to the lawyer which they will prove through independent evidence if the witness waffles, evades, or lies. <sup>85</sup> Cross-examination is not merely about what the witness is saying. There is a physical aspect to it involving the witness's demeanour, confidence, and whether they are hesitating while speaking. These are factors that will be difficult for the judge to observe over video conferencing. It is difficult for a virtual cross-examination to convey shifty eyes, stumbling speech, or the surprised blush of the unskilled liar caught in the act. <sup>86</sup>

To ensure the reliability of testimony over video conference, it is thus important that cross-examination be as close to a physical cross-examination as possible. If a party is not confident of this, they should have the right to request a physical cross-examination with reasons. If a party requests for physical cross-examination instead of video conferencing, the judge must make a reasoned decision on such a request. Such a request should not be denied merely for the reason of convenience and prosecutorial expedience.

# (c) Presumption of innocence

The principle of presumption of innocence embodies freedom from arbitrary detention and serves as a bulwark against punishment before conviction. More importantly, it prevents the state from successfully employing its vast resources to cause greater damage to an un-convicted accused than he/she can inflict on society. <sup>87</sup> The design of courtrooms and the nature of open courts exude a level of neutrality and transparency in their openness and accessibility to the public, and relative dignity in their layout. As opposed to this, the environment of a prison from where an undertrial prisoner appears through

<sup>&</sup>lt;sup>83</sup> David Harris. 1967. 'The Right to a Fair Trial in Criminal Proceedings as a Human Right', *The International and Comparative Law Quarterly*, 16(2): 352-37, p. 367.

<sup>&</sup>lt;sup>84</sup> Christopher B. Mueller. 2007. 'Cross-Examination Earlier or Later: When Is It Enough to Satisfy Crawford?', *Regent U. L. Rev.*. 19: 319-363. p. 321-22

<sup>&</sup>lt;sup>85</sup> John G. Douglass. 2003 'Virtual Cross-Examination: The Art of Impeaching Hearsay', *J. Mar. L. & Com.* 34: 149-157, p. 151.

<sup>86</sup> John G. Douglass, 'Virtual Cross-Examination: The Art of Impeaching Hearsay', p. 154-5

<sup>&</sup>lt;sup>87</sup> Vrinda Bhandari. 2013 'Inconsistent and Unclear: The Supreme Court of India on Bail', *NUJS L. Rev.*, 6(3): 549-558, p. 549.

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video conferencing is an enclosed and restrictive space. Care must be taken to ensure that the presumption of innocence is not affected when the defendant appears on a screen in court, locked firmly within the enclosed space of state control.<sup>88</sup> Within the setting of a virtual court, the defendant must be accorded dignity so that he is not prejudicially perceived thus affecting his presumption of innocence.

<sup>88</sup> Carolyn McKay. 2018 'Video links from prison: court "appearance" within carceral space', *Law, Culture* and the Humanities, 14(2): 242-262, p. 259.

# 6. TRANSPARENCY AND PRIVACY

There is a long track record globally of openness being recognised as an inherent part of the judicial process. Indian courts have also followed the practice of open courts for the most part. Section 327 of the Cr.P.C. and Section 153B of the C.P.C. both contain express provisions that declare that courtrooms shall be open to the public. The Supreme Court has also recognised the principle of open courts in *Naresh Shridhar Mirajkar* v. *State of Maharashtra*, though it was caveated with the rule that openness should not come at the expense of justice being administered.<sup>89</sup>

Most recently, the Supreme Court furthered the principle of open justice by approving live streaming of court proceedings. The Court emphasised that all cases brought before the courts, whether civil, criminal or others must be heard in open court. For a healthy, objective and fair administration of justice, what is needed is a public trial in open court. Trials held subject to public scrutiny and gaze naturally acts as a check against judicial caprice or vagaries and serve as a powerful instrument for creating confidence of the public in the fairness, objectivity, and impartiality of the administration of justice. <sup>90</sup>

The current state of technology allows trials to be live-streamed quite easily. It also allows for easy recording and dissemination of court proceedings. This implies that we need to be mindful of the circumstances in which certain trials cannot be live-streamed. E.g. if a witness is under threat, their testimony being live-streamed could lead to recordings of their testimony being made and circulated within minutes, thus endangering their lives. The Supreme Court in *Swapnil Tripathi* v. *Supreme Court of India* said that certain sensitive cases like matrimonial, sexual assault, and matters where children and juveniles are involved like POCSO cases should be excluded from the process of live streaming. The Court also said that the presiding judge of each court will be the final authority to regulate suspension or prohibition of live streaming in a particular case where the administration of justice so requires.<sup>91</sup> Witnesses and lawyers representing the parties to a case should be able to request the judge to not live stream or make public certain testimonies or the production of certain kinds of evidence.

In India, the usage of personal data or information of citizens is regulated by the Information Technology (Reasonable Security Practices and Procedures and Sensitive Personal Data or Information) Rules, 2011 (IT Rules) that were passed under Section 43A of the IT Act, 2000 (IT Act). These IT Rules define personal information of an individual

<sup>89</sup> Naresh Shridhar Mirajkar v. State of Maharashtra, 1966 SCR (3) 744.

<sup>90</sup> Swapnil Tripathi v. Supreme Court of India, Writ Petition (Civil) No. 1232 OF 2017.

<sup>91</sup> Writ Petition (Civil) No. 1232 of 2017.

as any information which may be used to identify them. In case of any negligence in maintaining security standards while dealing with the data, the IT Rules hold the body corporate (who is using the data) liable for compensating the individual. However, given the limitation under Section 43A of the it Act, the IT Rules do not apply to data generated by the government. 92

With respect to data stored and made public, the principles laid down in the Supreme Court's unanimous decision upholding privacy as a fundamental right under Article 21 of the Constitution in Justice K S. Puttaswamy (Retd) v. Union of India will play a pivotal role. The judgment, which emerged from a challenge to the Aadhaar identification system, deals with the usage of data by the state bodies and laid down a test to determine when the State can invade the privacy of its citizens. This test requires the three following conditions to be met:

First, legality – the invasion must be expressly sanctioned by law;

**Second**, necessity – the invasion must be in furtherance of achieving a legitimate state aim under the Constitution; and

**Third,** proportionality – the extent to which the state invades the individual's privacy should be proportionate to the needs for achieving the legitimate aim. This condition is broken up into the following aspects:

- Legitimacy of the goal the specific measure invading the individual's privacy i. must have a legitimate goal;
- Suitability or rationale nexus the invasion must have a rational nexus with the ii. achievement of the goal;
- Necessity the possibility of another alternative which is less restrictive but iii. equally effective should be ruled out before proceeding with the invasion of individual privacy; and
- iv. A positive balance – the cost that the invasion has on the rights of individuals needs to be compared with any of its potential benefits. While a data protection law is necessary to protect individuals against breaches and attacks, it needs to be balanced with the dissemination of data on the activities of public institutions which is necessary to ensure democratic accountability.

Although the overall policy governing judicial data should be open data, it is important to keep in mind that sensitive information is frequently an important part of legal proceedings, even though cases are heard in an open court. The ability to possess,

<sup>92</sup> DAKSH. 2019. Whitepaper Series On Next Generation Justice Platform Paper 3. Bengaluru, p. 8

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transform, and use information, particularly when done in bulk, could have harmful consequences. There is thus a need to protect the privacy of citizens while observing an open data principle.  $^{93}$ 

<sup>93</sup> DAKSH. 2019. Whitepaper Series On Next Generation Justice Platform Paper 3. Bengaluru, p. 14.

## 7. TECHNOLOGY

While implementing a video conferencing facility, the judiciary should ensure that the platform has features such as high-quality video, multi-stream high-definition technology, live screen sharing, automatic bandwidth adjustment, and cloud-based access.

It is recommended that a specialised software compatible with the eCourt infrastructure be used for video conferencing purposes, to ensure the best security standards. Apart from these factors, the video conferencing platform should also be interoperable. It should secure data with true end-to-end encryption, anti-malware, and provide for dataloss protection. It should be accessible on various kinds of devices such as laptops, tablets, and phones, and it must facilitate a flexible transition to the cloud.

#### 7.1. HARDWARE

The core component of a video conferencing system consists of hardware elements that enable the capturing and transfer of video images and audio sounds. The hardware encompasses camera facilities, microphones, and electronic screens associated with various devices. In addition to this, having echo cancellation software will help manage the lag in communication while participants are on a video conference. Further, hardware and software for data compression is required given the volume to data that will be generated. Furthermore, all the data collected from various video conferences will have to be stored, and cloud storage must be the preferred mode of storage. In order to ensure smooth services, having reliable internet connectivity is also essential to this whole process.

#### 7.2. DATA COMPRESSION

To optimise storage of data, it is necessary to compress the data. Advanced free and open-source loss-less compressions are now available in the market. MPEG-1 and MPEG-2 are the suggested compressed formats. Other formats can be used based on the device distribution. MP4 is the desired format for mobile phones and tablets.

#### 7.3. DATA TRANSFER

Once digitally compressed, the video and audio data can be transmitted over a network. In most cases, a broadband internet connection is the preferred network. It is

recommended that a dedicated lease line be reserved only for the courts' usage. To facilitate the transfer of large amounts of data amongst the participants in a video conference, the SSH File Transfer Protocol (SFTP) can be used. SFTP protects against password sniffing, cyber-attacks, and protects the integrity of the data using encryption and cryptographic hash functions, and authenticates both the server and the user.

The Wireless Area Network that the courts should use will have to ensure that the video bandwidth adheres to the Quality of Service (QoS) implemented in both the WAN and LAN. Having a QOS will allow managing the video traffic in the bandwidth. When upgrading, ethernet instead of bonded T1 / E1 access lines should be used. This will enable future upgrades without local loop replacement.

#### 7.4. AVOIDING FIREWALL BLOCKS

Firewalls are designed to protect systems from viruses and to provide security, but these can block the transmission of video conferencing data. To support video conferencing, the firewall needs to recognise video signals, handle the communication traffic efficiently, and ensure no disruption to the firewall protection and/or the video call services. It is recommended to use Session Border Controllers (SBCs), a combination of hardware and software equipment to manage the firewall.

#### 7.5. STANDARDS

## (a) Media Standards

Video conferencing is only possible when the audio and video information is translated and transmitted using the same technology language or standards. For video, the codec system (coder-decoder technology to compress and decompress data) uses the H.264 standard at conferencing locations. The standard for video compression, H.264, is widely used in various applications/devices such as video conferencing, mobile, and web platforms.

#### (b) Formats

All video formats are not compatible with digital platforms when it comes to production and repurpose. This can create tremendous problems while attempting to input, output, upload, and download necessary files.<sup>94</sup> The preferred video formats are:

<sup>&</sup>lt;sup>94</sup> The following types of codecs are available:

FFmpeg – This family of free codecs includes formats that are made for compressing DVDs that have been downloaded from any media storage.

XviD – An open source version of the codec is popular for bit size compression.

- i. AVI [Audio Video Interleave]
- ii. MP4 Format [Moving Pictures Expert Group 4]
- iii. WMV [Windows Media Video]
- iv. MOV [Apple Quicktime Format]
- v. MPG Format

# (c) Signalling

The International Telecommunications Union (ITU) developed the H.323 video conferencing standards and protocols to ensure compliance and to facilitate support across networks. H.323 is most common for video conferencing equipment but Session Initiation Protocol (SIP) is also rapidly being adopted as the standard for video because it can work between many different forms of communication such as voice, data, instant messaging, and Web 2.0-based applications.

#### 7.6. DATA-SHARING

The video conferencing platform of the judiciary should allow for uploading videos, sharing documents in real-time and scaling shared video clips to an ideal size.

# 7.7. CONTENT DISTRIBUTION NETWORK (CDN)

CDN nodes are usually deployed in multiple locations, often over multiple internet backbones. These reduce bandwidth costs, improve page load times, and increase the availability of content. A decision regarding what kind of CDN needs to be used must be decided based on the infrastructure availability of the NIC.

# (a) Types of CDN

In peer-to-peer (P2P) CDN, clients provide resources as well as use them. This means that unlike client-server systems, the content-centric networks can perform better as more users begin to access the content. This is one of the major advantages of using P2P networks because it reduces the setup and running costs.

The judiciary can create their private CDN. A private CDN consists of POPs (points of presence) that are only serving content among themselves. These POPs can be caching

x264 –Popular for use in conjunction with high definition resolution, this codec is particularly adept at compressing H.264 videos.

servers, reverse proxies, or application delivery controllers. It can be as simple as two caching servers or large enough to serve petabytes of content. Since the same content has to be distributed across many locations, a variety of multicasting techniques may be used to reduce bandwidth consumption. Over private networks, it has also been proposed to select multicast trees according to network load conditions to more efficiently utilise available network capacity.

# (b) Open CDN Architecture

Figure 9 shows what an open CDN architecture for the judiciary would look like.

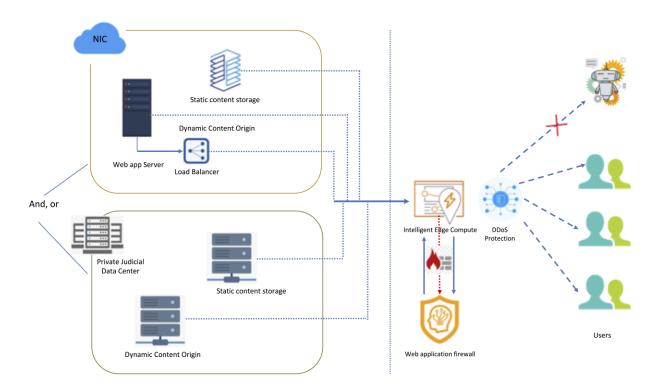


Figure 9: Open CDN architecture for the judiciary

#### 7.8. ARCHIVAL AND STORAGE

Archiving begins from the moment of creation when we record raw video footage on a camera. At this key stage, there is important information about the video that must be

captured to enable identification, authentication, and use of the video later on. Such contextual information about the video has to be captured at the time it is created. This metadata (i.e. data that allows for unique identification of video content in this context) is critical to the video's authenticity, and to the ability to find, use, and understand the video.

The key pieces of information to capture at the point of creation of the video include date and time of recording or creation, the geographical location associated with it, basic description details and information of video's creator. This capturing of information will allow for security considerations and will also allow us to treat different video recordings associated with the hearings differently. For instance, some may be private hearings and some public. This process will allow for the bifurcation of such categories.

#### 7.9. CAPTURE METADATA AND DOCUMENTATION

There are many ways to capture metadata about the video at the point of creation. Information can be captured manually or automatically and can be embedded in the video file or recorded in a separate document. Different methods have different safety and security risks and logistical requirements. The metadata captured should include:

## (a) Container:

Format, profile, commercial name of the format, duration, overall bit rate, writing application and library, title, author, creator, recorder info, track number, date, duration.

## (b) Video:

Format, codec id, aspect, frame rate, bit rate, colour space, chroma subsampling, bit depth, scan type, scan order.

## (c) Audio:

Format, codec id, sample rate, channels, bit depth, language, bit rate, etc.

#### (d) Text:

Format, codec id, language of subtitle, etc.

#### 7.10. USING VIDEO ANALYTICS:

The main goal of video analytics is to automatically recognise temporal and spatial events in videos. Usually, these systems perform real-time monitoring in which objects, object attributes, movement patterns, or behaviour related to the monitored environment are detected. Machine learning and deep learning approaches have revolutionised video analytics. The use of Deep Neural Networks (DNNs) has made it possible to train video analysis systems that mimic human behaviour. Systems that analyse facial expressions, body posture, and gaze can be developed to assist the judiciary in the evaluation of litigants. Such a system can detect emotions from body language and micro-expressions, offering judiciary objective information that can confirm their hypotheses or give them new clues. To facilitate analytics, the videos can be stored according to the following standards:

- (a) Container: MPEG-4, QuickTime, Matroska, AVI, MPEG-PS (including unprotected DVD), MPEG-TS (including unprotected Blu-ray), MXF, GXF, LXF, WMV, FLV, Real.
- (b) Tags: Id3v1, Id3v2, Vorbis comments, APE tags.
- (c) Video: MPEG-1/2 Video, H.263, MPEG-4 Visual (including DivX, XviD), H.264/AVC, H.265/HEVC, FFV1.
- (d) Audio: MPEG Audio (including MP3), AC3, DTS, AAC, Dolby E, AES3, FLAC.
- (e) Subtitles: CEA-608, CEA-708, DTVCC, SCTE-20, SCTE-128, ATSC/53, CDP, DVB Subtitle, Teletext, SRT, SSA, ASS, SAMI.

Further, the features of such analytics software must include facilities to:

- (a) View information in different formats (text, sheet, tree, HTML);
- (b) Customise these viewing formats;
- (c) Export information as text, CSV, HTML, etc.;
- (d) Have graphical user interface, command line interface, or library (.dll/.so/.dylib) versions available;
- (e) Integrate with the shell (drag 'n' drop, and Context menu);
- (f) Internationalisation: display any language on any operating system; and
- (g) Have localisation capability.

#### 7.11. WORKFLOW

Figure 10 provides a bird's eye view of the workflow of the process of video conferencing in a court.

Figure 10: Workflow of the video conferencing process in court



## (a) Create

Archiving begins from the moment of creation when you record raw video footage on a camera. At this key stage, there is important information about the video that must be captured to enable identification, authentication, and use of the video later on. The process of metadata starts here.

# (b) Transfer

Transfer refers to the electronic or physical movement of video, metadata, and related documentation from one device or location to another. Transferring can occur at any point in a workflow and often happens at multiple points. The result of a transfer is a file that is complete, unaltered, and in its original format.

# (c) Acquire

Acquisition refers to the process of receiving video and metadata from a source and adding it to the collection. The aim at this stage is to acquire materials in a complete and intact form. Actions taken at this stage are critical to later usability and preservation of the video.

# (d) Organise

Organising the collection involves arranging the files into a coherent directory structure, and naming those directories. It is needed to retain the original order of the video files and ensures that videos do not get lost or accidentally overwritten.

# (e) Storage

Storage is not just related to the device or service that is used to hold the videos, it also requires a set of actions or practices to ensure the media stays intact, secure, and accessible. Making copies, checking files, controlling access, and refreshing the devices are simple strategies for keeping videos safe while in storage. Videos along with the transcripts and metadata pertaining to each case can be stored along with the hearing data for public view and access.

## 8. INTERNATIONAL OVERVIEW OF VIRTUAL COURTS

#### 8.1. UNITED KINGDOM

The United Kingdom is on an ambitious path towards digitising its court system.<sup>95</sup> The Civil Courts Structure Review initiated a new legal framework that encompasses an Online Solutions Court for England.<sup>96</sup> The Online Solutions Court envisions the first stage of the dispute process to be automated, allowing litigants to identify their legal issues and upload relevant documents.<sup>97</sup> In the next stage, there will be a case officer who will help the litigants, and the last stage will involve adjudication by a judge but may not involve physical hearings or a trial.<sup>98</sup> It is assumed that the Online Solutions Court will ensure that more litigants can access the courts, given the digitally friendly platform that will help the litigants navigate their dispute.<sup>99</sup>

Video hearings are especially prevalent in criminal cases and most criminal courts are equipped with video links within the court infrastructure.<sup>100</sup> Video hearings are ordered only upon the judge's discretion.<sup>101</sup> It is understood that the court allows for the hearings to be open unless the court deems that the hearings should be private in the interest of justice.<sup>102</sup> At present, there is not enough data on the number of video hearings that take place or why the same is ordered in the first place.<sup>103</sup>

## 8.2. UNITED STATES OF AMERICA

<sup>&</sup>lt;sup>95</sup> Joshua Rozenberg. 2019. 'Justice Online: Are We There Yet?', 21 February, available online at <a href="https://www.gresham.ac.uk/lectures-and-events/justice-online-there-yet">https://www.gresham.ac.uk/lectures-and-events/justice-online-there-yet</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>96</sup> Lord Justice Briggs. 2016. 'Civil Courts Structure Review: Final Report', Judiciary of England and Wales, available online at https://www.judiciary.uk/wp-content/uploads/2016/07/civil-courts-structure-review-final-report-jul-16-final-1.pdf (accessed 12 April 2020).

<sup>&</sup>lt;sup>97</sup> John Sorabji. 2017. 'The online solutions court – a multi-door courthouse for the 21st century', *Civil Justice Quarterly*, 36 (1): 86 -104.

<sup>98</sup> John Sorabji, 'The online solutions court – a multi-door courthouse for the 21st century'.

<sup>&</sup>lt;sup>99</sup> John Sorabji, 'The online solutions court – a multi-door courthouse for the 21st century'.

<sup>&</sup>lt;sup>100</sup> Penelope Gibbs 'Defendants on video-conveyor belt justice or a revolution in access?', p. 5.

<sup>&</sup>lt;sup>101</sup> HMCTS. 2020. 'HMCTS video hearings: guidance for legal professionals', HMCTS, 10 January, available online at <a href="https://www.gov.uk/guidance/hmcts-video-hearings-guidance-for-legal-professionals">https://www.gov.uk/guidance/hmcts-video-hearings-guidance-for-legal-professionals</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>102</sup> Judiciary of England and Wales. 2020. 'Civil Justice in England and Wales Protocol regarding Remote Hearings', Judiciary of England and Wales, 26 March, available online at <a href="https://www.judiciary.uk/wp-content/uploads/2020/03/Remote-hearings.Protocol.Civil">https://www.judiciary.uk/wp-content/uploads/2020/03/Remote-hearings.Protocol.Civil</a> .GenerallyApplicableVersion.f-amend-</a>
<a href="https://www.judiciary.uk/wp-content/uploads/2020/03/Remote-hearings.Protocol.Civil">https://www.judiciary.uk/wp-content/uploads/2020/03/Remote-hearings.Protocol.Civil</a> .GenerallyApplicableVersion.f-amend-</a>
<a href="https://www.judiciary.uk/wp-content/uploads/2020/03/Remote-hearings.Protocol.Civil</a> .GenerallyApplicableVersion.f-amend-</a>

<sup>&</sup>lt;sup>103</sup> Penelope Gibbs 'Defendants on video-conveyor belt justice or a revolution in access?', p. 2.

The United States of America has made pioneering efforts towards digitisation of court proceedings. An Illinois court first used videophone bails hearings in 1972 and a court in Philadelphia installed a closed-circuit television system in 1974 for arraignment-related hearings.<sup>104</sup> Despite the early developments, many states within the US still allow for judicial discretion in deciding whether a video conference is required.<sup>105</sup> The debate in the US has evolved to include discussions on the best practices in terms of electronic usage of documents while looking into video conferences. For instance, automation is suggested to allow for judicial authorisation of documents.<sup>106</sup> To address privacy concerns, certain courts like Florida, Pennsylvania, and Michigan are using automated redaction software facilities.<sup>107</sup> These software options work in tandem with e-filing, case management, and document management software.<sup>108</sup> Certain courts in the state of Michigan are advanced in their handling of the video conferences and allow for live streaming of the same.<sup>109</sup> As regards the networks used, courts are amenable to using networks like Zoom.<sup>110</sup> Certain other courts specify other applications. For instance, in

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<sup>&</sup>lt;sup>104</sup> National Centre for State Courts. 1995. 'Briefing Papers: Videoconferencing', National Centre for State Courts, available online at <a href="https://cdm16501.contentdm.oclc.org/digital/collection/tech/id/532">https://cdm16501.contentdm.oclc.org/digital/collection/tech/id/532</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>105</sup> Wisconsin Supreme Court. 2017. 'Bridging the Distance: Implementing Videoconferencing in Wisconsin', available online at <a href="https://www.wicourts.gov/courts/committees/docs/ppacvidconf.pdf">https://www.wicourts.gov/courts/committees/docs/ppacvidconf.pdf</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>106</sup> James E McMillan. 2005. 'Digital Rights Management, Technology Will Change the Way Courts Work', National Centre for State Courts, available online at <a href="https://cdm16501.contentdm.oclc.org/digital/collection/tech/id/585">https://cdm16501.contentdm.oclc.org/digital/collection/tech/id/585</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>107</sup> Thomas M Clarke. 2017. 'Best Practices for Court Privacy Policy Formulation,' National Centre for State Courts, available online at <a href="https://cdm16501.contentdm.oclc.org/digital/collection/tech/id/876">https://cdm16501.contentdm.oclc.org/digital/collection/tech/id/876</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>108</sup> Thomas M Clarke. 2017. 'Best Practices for Court Privacy Policy Formulation,' National Centre for State Courts, available online at <a href="https://cdm16501.contentdm.oclc.org/digital/collection/tech/id/876">https://cdm16501.contentdm.oclc.org/digital/collection/tech/id/876</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>109</sup> State Court Administrative Office. 2020. 'Michigan Trial Courts Virtual Courtroom Standards and Guidelines', State Court Administrative Office, 7 April, available online at <a href="https://courts.michigan.gov/Administration/SCAO/Resources/Documents/standards/VCR\_stds.pdf">https://courts.michigan.gov/Administration/SCAO/Resources/Documents/standards/VCR\_stds.pdf</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>110</sup> State Court Administrative Office. 2020. 'Michigan Trial Courts Virtual Courtroom Standards and Guidelines', State Court Administrative Office, 7 April, available online at <a href="https://courts.michigan.gov/Administration/SCAO/Resources/Documents/standards/VCR\_stds.pdf">https://courts.michigan.gov/Administration/SCAO/Resources/Documents/standards/VCR\_stds.pdf</a> (accessed 12 April 2020).

certain courts in the state of Montana, applications are specified to be downloaded by the participants of the video conferences.<sup>111</sup>

#### 8.3. CANADA

Videotaped statements and closed-circuit television enabled hearings were mooted in Canada as early as 1988.<sup>112</sup> However, Canada has followed a cautious approach to allowing video conferencing.<sup>113</sup> Judicial discretion is an intrinsic part of the video conferencing system. For instance, the Ontario rules of civil procedure lays down the various criteria that will have to be considered while allowing for video conferences.<sup>114</sup> On evaluating existing case laws and the rules, it is suggested that there is no rule where a judge can impose video conferencing on an unwilling party, in the evidence stage.<sup>115</sup> Access to court records is available, subject to conditions and court discretion.<sup>116</sup> In analysing the use of video conferencing in Canada, it is suggested that there needs to be research that transcends the efficiency of technology and focuses on how video conferencing may impact the judicial process.<sup>117</sup>

#### 8.4. AUSTRALIA

Virtual courtrooms in Australia are advanced in certain areas. For instance, the ecourtroom facility allows for an entirely virtual proceeding without any physical

<sup>&</sup>lt;sup>111</sup> Montana Seventh Judicial District Court. 2020. 'Order for court procedure- coronavirus', Montana Seventh Judicial District Court, 13 March, available online at <a href="https://courts.mt.gov/Portals/189/virus/local/7.pdf">https://courts.mt.gov/Portals/189/virus/local/7.pdf</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>112</sup> Richard Francis. 2015. 'Universal Design and Videoconferencing at Tribunals: Improving access from day one', Presented at Council of Canadian Administrative Tribunals Annual Conference, 24 February, available online at <a href="https://cart-crac.gc.ca/about/intern\_projects/project1-en.html">https://cart-crac.gc.ca/about/intern\_projects/project1-en.html</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>113</sup> Amy Salyzyn. 2012. 'A New Lens: Reframing the conversation about the use of Video Conferencing in Civil Trials in Ontario', *Osgoode Hall LJ* 50: 429 -463.

<sup>&</sup>lt;sup>114</sup> Rule 1.08, Rules of Civil Procedure, available online at <a href="https://www.ontario.ca/laws/regulation/900194">https://www.ontario.ca/laws/regulation/900194</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>115</sup> Amelia Phillips. 2018. 'Cross-Examination By Video Conferencing: Still The Exception To The Rule', Mondaq, 6 December, available online at <a href="https://www.mondaq.com/canada/Litigation-Mediation-Arbitration/761580/Cross-Examination-By-Video-Conferencing-Still-The-Exception-To-The-Rule">https://www.mondaq.com/canada/Litigation-Mediation-Arbitration/761580/Cross-Examination-By-Video-Conferencing-Still-The-Exception-To-The-Rule</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>116</sup> Provincial Court of British Columbia. 2019. 'Policy of the Provincial Court of British Columbia', Provincial Court of British Columbia, 10 December, available online at <a href="https://www.provincialcourt.bc.ca/downloads/public%20and%20media%20access%20policies/ACC-2%20-%20Access%20to%20Court%20Records.pdf">https://www.provincialcourt.bc.ca/downloads/public%20and%20media%20access%20policies/ACC-2%20-%20Access%20to%20Court%20Records.pdf</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>117</sup> Amy Salyzyn, 'A New Lens: Reframing the conversation about the use of Video Conferencing in Civil Trials in Ontario'.

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hearings.<sup>118</sup> As in other jurisdictions noted above, Australia also emphasises the importance of judicial discretion while allowing video conference facilities. It has a streamlined process where participants intending to use the video conference facilities will have to file a booking form to get the video link.<sup>119</sup> Charges are also levied on participants for using the video conference facilities unless the court decides to use video conferencing for its convenience.<sup>120</sup> Technical considerations that ought to be followed for the video conference are also specified.<sup>121</sup> In certain courts, a specific court link is provided while Microsoft Team is also used as an alternative.<sup>122</sup> Courts are also amenable to using Zoom and Skype for business.<sup>123</sup>

<sup>&</sup>lt;sup>118</sup> Federal Court of Australia. 2016. 'Technology and the Court Practice Note', Federal Court of Australia, 25 October, available online at <a href="https://www.fedcourt.gov.au/law-and-practice/practice-documents/practice-notes/gpn-tech">https://www.fedcourt.gov.au/law-and-practice/practice-documents/practice-notes/gpn-tech</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>119</sup> Federal Court of Australia. 'Guidelines for videoconferencing', Federal Court of Australia, available online at <a href="https://www.fedcourt.gov.au/going-to-court/videoconferencing-guide">https://www.fedcourt.gov.au/going-to-court/videoconferencing-guide</a> (accessed 12 April 2020).

<sup>&</sup>lt;sup>120</sup> Federal Court of Australia. 'Guidelines for videoconferencing'.

<sup>&</sup>lt;sup>121</sup> Federal Court of Australia. 'Guidelines for videoconferencing'.

Federal Court of Australia. 2020. 'National Practitioners/Litigants Guide to Virtual Hearings and Microsoft Teams', Federal Court of Australia, available online at <a href="https://www.fedcourt.gov.au/">https://www.fedcourt.gov.au/</a> data/assets/pdf file/0019/62416/National-Practitioners-and-Litigants-Guide.pdf (accessed 12 April 2020).

<sup>&</sup>lt;sup>123</sup> Supreme Court of Victoria. 2020. 'Virtual Hearings Practitioner's Factsheet', Supreme Court of Victoria, April, available online at <a href="https://www.supremecourt.vic.gov.au/sites/default/files/assets/inline-files/Virtual%20Hearings%20-%20Practitioner%27s%20fact%20sheet\_0.pdf">https://www.supremecourt.vic.gov.au/sites/default/files/assets/inline-files/Virtual%20Hearings%20-%20Practitioner%27s%20fact%20sheet\_0.pdf</a> (accessed 12 April 2020).

Thus, international practices are sourced from the following countries:  $USA^{124}$ ; Canada<sup>125</sup>, Australia<sup>126</sup>, and the  $UK^{127}$ .

124 Wisconsin Supreme Court. 2017. 'Bridging the Distance: Implementing Videoconferencing in Wisconsin', available online at <a href="https://www.wicourts.gov/courts/committees/docs/ppacvidconf.pdf">https://www.wicourts.gov/courts/committees/docs/ppacvidconf.pdf</a> (accessed 12 April 2020); Rule 1.6, Rules of Criminal Procedure, available online https://www.azcourts.gov/portals/20/2008RulesA/2009Rules/Aug2009orders/R060016.pdf (accessed April 2020); State Court Administrative Office. 2020. 'Michigan Trial Courts Virtual Courtroom Standards Office, Guidelines', State Court Administrative April, available online https://courts.michigan.gov/Administration/SCAO/Resources/Documents/standards/VCR stds.pdf (accessed 12 April 2020); Michael Marciano. 2020. "Virtual Court' Is In Session', Law.com, 6 April, available online at https://www.law.com/newyorklawjournal/2020/04/06/virtual-court-is-in-session/ (accessed 12 April 2020). 125 Rule 1.08, Rules of Civil Procedure, available online at https://www.ontario.ca/laws/regulation/900194 (accessed 12 April 2020); Provincial Court of British Columbia. 2019. 'Policy of the Provincial Court of Columbia', Provincial Court British Columbia, available of https://www.provincialcourt.bc.ca/downloads/public%20and%20media%20access%20policies/ACC-2%20-%20Access%20to%20Court%20Records.pdf (accessed 12 April 2020); Provincial Court of British Columbia. 2016. 'Recording of Proceedings before Judicial Case Managers', Provincial Court of British available Columbia, online https://www.provincialcourt.bc.ca/downloads/Practice%20Directions/NP%2010%20Recording%20of%20P roceedings%20Before%20Judicial%20Case%20Managers.pdf (accessed 12 April 2020); Supreme Court of British Columbia. 2015. 'Practice Direction Video Recording or Broadcasting of Court Proceedings', Columbia, of British https://www.bccourts.ca/supreme court/practice and procedure/practice directions/civil/PD-48-Video Recording or Broadcasting of Court Proceedings.pdf (accessed 12 April 2020). 126 Federal Court of Australia. 'Guidelines for videoconferencing', Federal Court of Australia, available online at https://www.fedcourt.gov.au/going-to-court/videoconferencing-guide (accessed 12 April 2020); Federal Court of Australia. 2020. 'National Practitioners/Litigants Guide to Virtual Hearings and Microsoft Teams', Australia, online Federal Court of available https://www.fedcourt.gov.au/ data/assets/pdf file/0019/62416/National-Practitioners-and-Litigants-Guide.pdf (accessed 12 April 2020); New South Wales Government. 'Interpreters and Translators', available online at http://www.courts.justice.nsw.gov.au/Pages/cats/support/interpreters.aspx (accessed 12 April 2020); Supreme Court of Victoria. 2020. 'Virtual Hearings Practitioner's Factsheet', Supreme Court of Victoria, April, available online at https://www.supremecourt.vic.gov.au/sites/default/files/assets/inlinefiles/Virtual%20Hearings%20-%20Practitioner%27s%20fact%20sheet 0.pdf (accessed 12 April 2020). 127 HMCTS. 2020. 'HMCTS video hearings: guidance for legal professionals', HMCTS, available online at https://www.gov.uk/guidance/hmcts-video-hearings-guidance-for-legal-professionals (accessed 12 April 2020); HMCTS. 2020. 'HMCTS telephone and video hearings during coronavirus outbreak', HMCTS, https://www.gov.uk/guidance/hmcts-telephone-and-video-hearings-duringavailable coronavirus-outbreak (accessed 12 April 2020); Judiciary of England and Wales. 2020. 'Civil Justice in England and Wales Protocol regarding Remote Hearings', Judiciary of England and Wales, available online https://www.judiciary.uk/wp-content/uploads/2020/03/Remotehearings.Protocol.Civil .GenerallyApplicableVersion.f-amend-26 03 20-1-1.pdf (accessed 12 April 2020).

**Table 2:** Consolidation of the international practices

Summarised in Table 2 is a range of international practices followed within the various courts in the following countries.<sup>128</sup>

Features of	USA	Canada	Australia	UK	
Virtual Courts					
Video Hearings	Available.  Judicial discretion	Available.  Judicial	Available.  Judicial discretion	Available.  Judicial	
	to be exercised.	discretion to be exercised.	to be exercised.	discretion to be exercised.	
Special communication link to facilitate discussions between lawyers and clients	Available.	Not available online.	Recommended to use the in-built features in the network used for the video conferencing or using a phone call/SMS etc	Still under development. Phone call options to clients are in place for now.	
Public access to hearings	Live streaming for the public is available.	Access to court records available, subject to conditions and court discretion.	Courts discretion for allowing public participants.	Hearings to be open including allowing for live - streaming, unless the court decides otherwise.	
Network Used	Some courts are using skype. Zoom is also used.	Not available online.	Microsoft Team is also used as an alternative. Zoom, Webex, Skype for business are also used.	Court sends the video link to the participants. Instructions are provided regarding the usage of the link. BT MeetMe, Skype for Business, Zoom are all utilised.	
Recording of hearing	Recorded by the court, subject to	Recording done in some matters. Authorisation	The court records the proceeding.	Court records the hearing, not open to the public and	

<sup>&</sup>lt;sup>128</sup> While understanding this table, it is to be noted that there are practice differences that exist among the courts situated within the same jurisdiction.

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Features of Virtual Courts	USA	Canada	Australia	UK
	certain exceptions.	required, subject to rules framed thereunder.	Public not allowed to record.	participants to record the hearing without the express permission of the court.
User Manuals for participants	Available.	Not available online.	Available.	Available.
Interpretation Facilities	Available.	Not available online.	Available.	Not available online.
Transcription of hearings	Available.	Available. Access to court records available, subject to conditions and court discretion	Available.	Available.

# 9. IMPLEMENTATION

A road map for the successful adoption of video conferencing in the Indian judiciary should balance the immediate needs of the pandemic with that of the situation when normalcy will return in the near future. We recommend the approach and indicative timelines detailed in Table 3 for the adoption of video conferencing.

 Table 3: Implementation approach

	Activity	Tentative Timelines
1	Ensure that current physical infrastructure in place is	6 to 9 months from
	used optimally before committing to additional	the current date
	infrastructure. As noted in section 2 of this paper,	
	courts already have video conferencing facilities. Some	
	questions that leadership in the judiciary should	
	engage with in this context is: What is the level of their	
	usage? If they are not being used as much as was	
	anticipated, what are the factors that limit their usage?	
	Are they physical and technological factors? Are they	
	behavioural factors? Are they the outcome of existing	
	rules and/or regulations? Answering these questions	
	will require putting in place a robust statistical system	
	and conducting rigorous evaluation studies. Such	
	studies are required before committing additional	
	investment in the infrastructure that is required to	
	build a safe and robust video conferencing system.	
2	Make rules that provide for increasing usage of video	3 to 4 months from
	conferencing based on learnings from the above study,	completion of the
	and also protecting the privacy of data. Draft rules	study to notification
	should be placed in the public domain, feedback	of final rules.
	sought, and amendments incorporated.	
3	Scope for video conferencing must be expanded on a	6 to 9 months for the
	pilot basis, for example in 3 court complexes (1 metro,	pilot project and 3 to
	1 tier 2 location, and 1 rural location). The pilot project	5 months for
	must run for 6 months, after which functioning should	evaluation
	be evaluated and results put in the public domain.	

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4	Enhancing technological functionalities, integration	In parallel after
	with e-filing, document management, justice platform,	completion of the
	and enabling data protection and privacy features.	study detailed in (1)
5	Next steps to be deliberated upon based on learnings	After evaluating the
	from the pilot project.	functioning of pilot
		courts

## 10. DISCUSSION POINTS

It is clear that the Indian judiciary has over time appreciated the utility of video conferencing in making justice more accessible and to protect vulnerable citizens. While expanding the scope from its current levels, the following questions need further deliberation amongst all stakeholders:

# 10.1. WHETHER THE JUDICIARY SHOULD CONSIDER MEASURES TO NUDGE THE ADOPTION OF TECHNOLOGY BY THE LITIGANTS AND THE BAR.

Currently, video conferencing is allowed to be used only if the parties to the case agree exceptions to this are cases where in-camera proceedings are allowed under judicial discretion. The problem of adjournments has shown us that unless the judge is empowered to take control of the lifecycle of the case and can exercise this power, parties would be well within their rights to choose to act in their self-interest.

# 10.2. WHETHER THE ADOPTION OF VIDEO CONFERENCING CAN BE INCREASED

It must be deliberated whether the adoption of video conferencing can be increased by making it the default mode for certain types of hearings and certain types of cases. Exceptions can be made based on sufficient justification.

# 10.3. WHETHER VIDEO CONFERENCING COULD BE THE DEFAULT MODE FOR HEARINGS IN SELECT SITUATIONS

## (a) Outstation witnesses

Getting witnesses to depose poses a significant challenge in the Indian justice system. Where witnesses reside at a city/town other than that of the court that they are required to depose at, video conferencing should be the norm.

#### (b) POCSO

The sensitivity of such cases and the need to protect the victim from the alleged perpetrator, make a compelling case for using video conferencing. Provisions for conducting in-camera proceedings already exist and this would be a natural extension.

#### (c) Heinous crimes against women

Given the reluctance in reporting crimes against women and the social stigma attached to women when filing a case against their alleged perpetrators, women must be allowed to depose remotely using video conferencing facilities. However, whether this can be extended to all crimes against women or only heinous ones needs further discussion.

#### (d) Consumer courts

Video conferencing facilities will go a long way in ensuring that market forces are balanced in situations where consumers pursue disputes against providers of goods and services.

## (e) Commercial courts

Video conferencing would not present a challenge to the parties and lawyers appearing in commercial courts. Further, commercial courts are required to hold pre-trial conferences and follow case management practices that enable focused hearings over a limited period by scheduling hearings in advance. All these factors make commercial courts ideal for expanding the use of video conferencing facilities.

## (f) Tribunals

Many tribunal benches suffer from inadequacy of members - both technical and judicial.<sup>129</sup> Video conferencing can help optimise these scarce resources across benches - e.g. a technical member stationed at Chennai can regularly be part of proceedings in Delhi.

# 10.4. SHOULD PARTIES BE ALLOWED THE OPTION OF REQUESTING HEARINGS THROUGH VIDEO CONFERENCING

Apart from making video conferencing the default mode for hearings in certain cases, it must be seen whether parties and witnesses can be allowed to request the presiding officer to participate through video conferencing facilities. If this may be permitted, it must be decided whether the presiding officer should be empowered to accept or reject such applications based on guidelines laid down such as interests of timely justice, barriers to cross-examination, etc.

#### 10.5. DATA PROTECTION AND PRIVACY

It must be decided what measures, legal and technological, should be taken to ensure data protection and privacy.

<sup>&</sup>lt;sup>129</sup> Rojer Mathew v. South Indian Bank, Civil Appeal No. 8588 of 2019.

## 10.6. USAGE BY LEGAL AID AUTHORITIES

It must be decided whether legal aid authorities should be encouraged to use video conferencing facilities at an enhanced scale.

## 10.7. ENSURING CITIZEN CENTRICITY

How do we ensure that video conferencing does not mean convenience/efficiency for the judiciary, lawyers, police and other institutions only but would also mean convenience/ease of use for citizens?

## 11. A FRAMEWORK FOR RULES

With courts across the country being called upon to formulate directives governing the conduct of case hearings through video conferencing, this section of the paper seeks to provide a framework or rules to actualise virtual courts

#### 11.1. DEFINITIONS

The rules passed by courts must ensure that certain terms are defined to clarify the extent of application of the rules and video conferencing facilities. In specific, courts must specify:

- (a) The software to be used for video conferencing;
- (b) Persons who can use the video conferencing facility;
- (c) The nature of access provided to various users; and
- (d) Which persons (other than judges, court staff, litigants, their advocates, and witnesses) can be called by the court to join the video conference.

#### 11.2. APPLICABILITY

The rules must explicitly mention which courts the rules apply to - whether the High Court, trial courts, or both. If the court envisages trying video conferencing facilities on a trial basis, the rules must also mention if they only apply to specific benches in the High Court or specific trial courts, etc.

Further, the rules must also mention which authority is empowered to expand the applicability of the rules, the mode of such notification, and the timeline for such applicability to more courts.

#### 11.3. INFRASTRUCTURE

The courts must specify the minimum mandatory infrastructure to be in place at the courts before commencing the use of video conferencing facilities. Such basic infrastructure must include rooms for video conferencing with ample lighting, desktops/laptops for judges and court staff, high-speed internet, good quality speakers and microphones, good quality video camera, printers, the facility for digital signatures, codec, echo cancellation software, cloud storage, etc.

#### 11.4. HUMAN RESOURCES

As the success of any virtual court system would depend on the knowledge of persons behind the system, courts must provide for and assign dedicated experienced personnel to plan, manage, and implement the architecture required to conduct case hearings through video conferencing.

#### 11.5. USAGE

# (a) Cases where hearings can be conducted through video conferencing

Due to constraints of cost, manpower, and more importantly bandwidth, courts must stipulate the cases or circumstances under which cases can be heard through video conferencing. Further, in situations where judges may be given the discretion to allow or not allow for hearings through video conferencing, the rules must provide guidance on the nature of exceptions to be permitted.

# (b) Listing of cases

The rules to be framed by courts must specify the manner of notifying the cases listed to be heard through video conferencing, and when such causelists would be made available. As far as practically possible, courts must strive to provide time slots for the hearing of cases based on their nature and stage so as to optimise judicial time in hearings conducted through video conferencing. Further, courts must expressly clarify the timings during which hearings through video conferencing will be conducted.

# (c) Types of video conferences

As most case hearings in India are conducted in open court, the default option for hearings through video conferences must be public hearings that can be viewed online by members of the public. However, as the law also provides for private hearings in the case of sensitive cases, the rules must also allow for private video conferences to be held for such cases in accordance with the law.

# (d) Types of access for users

The rules must specify the types of access that can be provided to users in a hearing conducted through video conferencing. Further, if the access to public viewing is limited

to a certain number of people, the rules must specify the maximum number of persons from the general public who can view the hearing.

## (e) Authentication

With parties, their advocates, and witnesses not appearing physically before the courts, it is vital to ensure confirmation of their identity before proceeding with the hearing of a case. Therefore, the rules must specify the method of authenticating their identity remotely. For example, courts could mandate that persons upload a clear photo of their photo identity card (official identity cards for police or court officials, bar council cards for advocates, government-issued photo identity cards for others, etc.) enter their mobile number and an OTP to log in.

# (f) Accessing the video conference

The rules must specify how the links to join the video conference will be shared, when they will be shared, what time the participants must join the video conference, what features they would be required to have (camera, speaker, microphone), and any other requirements that the participants must ensure they carry out (for example, sit facing a light source, ensure that there is space of 1.5 metres around the person speaking, etc.)

# (g) Waiting room

If the software used by the courts provides the feature of a waiting room until the beginning of a case hearing, the rules must explain the use of a waiting room, when parties will be made to join the room and when their case will be heard.

# (h) Manner of hearing cases

The rules must stipulate the etiquette to be followed in the hearing of cases through video conferencing so as to minimise the disruption in proceedings. For instance, the rules could provide that all parties must remain silent until they are called upon by the judge to speak, or if the software used by the courts has features to replicate the raising of one's hand or a feature to mute a participant, the rules must specify how and when such features can be used.

# (i) Private conversations between advocates and litigants

If the courts make use of a video conferencing software that allows advocates and litigants to have private conversations on the video conferencing software during a hearing, the rules must specify when and how such features to engage in private conversations can be used.

# (j) Sharing of documents during hearings

The rules must specify the method of sharing documents with the court during hearings. If the software used by courts for video conferencing allows for uploading of documents, the rules may specify the circumstances under which such feature can be used, or in the alternative what documents may be uploaded. If the court requires hard copies of any documents to be provided in addition to the soft copy, the rules must stipulate that. Further, in case of witness evidence provided through video conferencing, the rules must specify how the transcripts of such evidence are to be signed by the witness and sent to the court for the record.

# (k) Passing of orders by the court and digital signatures

The rules framed by courts must stipulate how orders will be passed by courts and copies will be made available. If judges will be using digital signatures for the orders, the rules must also specify the same.

# (l) Requests filed before the virtual court

As parties to a case often file applications or memos before the court during the hearing of a case, the rules must specify where and when such applications or memos can be filed. The rules must also specify how parties will receive an acknowledgment of the receipt of their application or memo and the action taken on it.

Further, in order to account for cases where any party wants to mention a case for hearing or listing, seek an adjournment, or seek a private hearing through video conferencing, the rules must stipulate the manner in which such requests can be filed, and when and how they will hear back on the action taken on their request.

# (m) No use of cell phones during proceedings

Keeping in line with rules prohibiting the usage of cell phones inside court halls, the rules must prohibit the use of cell phones by all participants during the hearing of a case.

#### 11.6. IMPLEMENTATION SUPPORT

# (a) Calling of aids for participants

The rules must allow for the following persons to be present for hearings over video conferencing where required: translators, experts in sign language, persons to read documents aloud for visually challenged participants, and interpreters for mentally or physically challenged persons. The rules must specify when such persons must be informed of the case hearing and how they will be provided a link and guidelines to join the video conference.

# (b) E-filing and e-payments

If the courts so implement a mechanism, the rules may provide for the mode and method of e-filing and making of e-payments. The rules must in such a case also prescribe the procedure to check which payments have been made, which documents have been uploaded, and also track whether the documents have been reviewed and accepted or returned for rectification of defects.

# (c) Training of judges and court staff, support staff

Training of judges and court staff will be crucial in ensuring the success of conducting case hearings through video conferencing. Therefore, the rules must specify the nature of training to be provided, who will be provided training, who will conduct the training, and when such trainings will be conducted. The rules must also account for the training of support staff who will be deployed for answering any questions or helping participants of a video conference with any technical difficulties they may face.

## 11.7. COLLECTION OF DATA

For the courts to assess and evaluate the efficiency of video conferencing and effectively utilising judicial time, the rules may provide for the collection of data regarding hearings through video conferencing and stipulate which authority is to analyse and suggest improvements based on the data collected.

#### 11.8. TRANSPARENCY

The rules must stipulate that the court will ensure transparency in hearings held through video conferencing, with any relaxations or exemptions provided to participants being made known to the public in the interests of transparency and adhering to the principle of open courts.

#### 11.9. PRIVACY AND DATA SECURITY

The rules must specify the standards of privacy and data security to be followed by the courts with regard to conducting case hearings through video conferencing. In specific, the rules must also address how and where recordings of hearings, documents shared online, and transcripts of the video conferences will be stored and secured, and the duration for which they will be stored and secured.

# 11.10. PROHIBITION ON RECORDING THE PROCEEDINGS OF A VIDEO CONFERENCE

The rules must also expressly prohibit any form of audio or video recording of court proceedings held through video conferencing when done without the express prior written permission of the court. In this regard, the rules may also provide for a strict fine or punishment against any person who records the proceedings of a video conference through an audio or visual means.

# 11.11. PROVISIONS OF EXISTING LAWS TO APPLY

The rules may stipulate that provisions of the C.P.C, Cr.P.C, Information Technology Act, 2000 and Indian Evidence Act, 1872 shall continue to apply to hearings held through video conferencing, barring any exceptions to be prescribed by the rules.

#### 11.12. NON-OBSTANTE CLAUSE

In order to ensure that the rules have adequate legal backing to be implemented, the rules may provide for a non-obstante clause to override all other existing rules/ regulations/ guidelines/ circulars that govern the conduct of hearings by courts through video conferencing.

## 11.13. AMENDMENTS AND CLARIFICATIONS REGARDING THE RULES

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The rules must stipulate the method and manner in which the rules may be amended or clarifications issued regarding the rules.

## 11.14. SUNSET CLAUSE

In order to ensure that the rules stay relevant to the context of changing times, the rules may provide for a sunset clause to evaluate the rules after a fixed period to check if any amendments need to be made.

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