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# **Web Content Analysis of Veterinary University Library Websites in India: An Evaluation**

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## **Abstract**

With the use of innovative cutting-edge technology in the library, the website is considered a new way of disseminating the information for promoting services to grasp the readers in each corner of the world. This study assessed the content of Veterinary University Library Websites in India. Sixty-five parameters/criteria of a checklist method are set and used for data collection for analysing the library website and webpage content. The finding result revealed that Rajasthan University of Veterinary & Animal Sciences, Bikaner was secured on the top with 3,39,564 Alexa Traffic Global Rank along with the first position with 42,798 Alexa Indian Rank also. The majority 6 (75%) of Veterinary University Library Websites/Webpages are user-friendly to visit the site. Further, it was revealed that Sri Venkateswara Veterinary University, Tirupati 45 (69.23%) scores the highest number followed by Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar 37 (56.92%) among the Veterinary University Websites/Webpages are taken for the study. Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad got the third rank with 24 (36.92%) scores.

**Keywords:** Content Analysis, Agricultural University, Websites, Veterinary University

## **1. Introduction**

ICT facility brings a wider range of prospects, which could make available resolutions to some of the major challenges facing in the areas namely, circulation, acquisition, cataloguing, serial control, periodical, etc. Due to rapid advancement in emerging technologies such as Ontology, RFID, Web 3.0 Tools, Bar Code, Semantic Web, Q R Code, Cloud Computing,

Big Data, Mobile App, Resource Discovery, Content Management System (WordPress, Drupal, Joomla, and Zope, etc.), Learning Management System (ATutor, Moodle, Brihaspati, and Claroline, etc.) ILMS (Koha, ABCD, SOUL, and Libsys, etc.) has significantly enhanced the capabilities of storage, retrieval, processing, communicating, repackaging, sharing, and tackling the explosive growth of information efficiently and thriftily in library services.

Website is also one of the most significant tools to be used in several ways by different institutions for academic purposes to meet the expectation of its users. The library website is used as a mechanism to communicate with the respective users with their required information. In this digital age, libraries are fully computerized and digitised in addition to the majority of younger generations are web savvy. They expect library information to be at their fingertips without visiting the library physically. Now, most of the information is accessible on the web however all those information is neither authentic nor reliable. At this juncture, Library Science Professionals play an imperative role to make available the right information to the right users at the right time at the right moment according to, S.R. Ranganathan (Father of Library Science in India) to fulfill their needs.

## **2. Background of the Study**

The agricultural sector and its growth in India are faced with new challenges and opportunities on food, nutrition, population, and environmental fronts. Agricultural libraries of India have to play a vital role to face these challenges by providing quick access to information. The Government of India is conscious of improving the conditions of agricultural libraries. In the past, many committees were appointed to meet the challenges of providing agricultural information. These were headed by Damle (1955), Ralph R. Shaw and D. B. Krishna Rao (1957), Randhawa (1960), Dorothy Parker (1969), and Edith Hesse (1997). Most of the recommendations made have since been accepted by the Indian Council of Agricultural Research (ICAR), though only a few have been implemented so far. A large number of workshops, seminars, and conferences for agricultural libraries were held at different places from time to time. These workshops, seminars, and conferences formulated several recommendations for the development of agricultural libraries and their services and passed various resolutions for consideration. (Source: [http://nopr.niscair.res.in/bitstream/123456789/17897/1/ALIS%2048\(1\)%2031-38.pdf](http://nopr.niscair.res.in/bitstream/123456789/17897/1/ALIS%2048(1)%2031-38.pdf))

As of now, there is a total of 64 State Agriculture Universities (SAUs), 04 Deemed Universities, 03 Central University, and 64 ICAR Central Research Institutes, 13 Directorates/Project Directorates, 06 National Bureaux, and 15 National Research Centres in India offering education and research facilities for the development of agriculture in India. According to, Veterinary University Library Websites in India concern, they are having 08 State Agriculture Universities and 01 Deemed Universities in as per ICAR Website (Source: <https://icar.org.in/content/state-agricultural-universities-0> and <https://icar.org.in/content/deemed-universities>) accessed on 21/06/2021.

### **3. Literature Review**

In the field of content analysis, a lot of work has been covered and available in content analysis-related themes on several perspectives but no study was found respectively on content analysis of Veterinary University Library Websites in India. The researcher followed the related literature contributed by diverse experts. Following are some of them.

**Rahman & Sadik (2020)** studied the accessibility, accuracy, currency, and user-friendliness of ten selected college library websites affiliated with the University of Delhi. Finding result was shown that the maximum number of college libraries website stated information related to introduction 9 (90%), library hours 6 (60 %), library staff 8 (80 %), and membership 6 (60 %). It was revealed that none of the college library websites/web pages used feedbacks, social networking tools, regular updates, and also lack in providing news-clippings, user manual single-window search, and question papers. Further, it was found that Deshbandhu College library secured the highest scored 38 out of 43 whereas Ramjas College secured only five (05) out of 43 and stands last.

**Chikkamanju (2017)** observed the content of four Agriculture Universities Library Websites viz. UASR, UASD, UASB and UASS, in Karnataka. Findings result disclosed that a majority of Agriculture University Library Websites are not updated regularly. It was suggested that University Library Websites must pay special consideration to make consistently updating to have new journals, arrivals books, upcoming events, announcements information, circular, etc. It was revealed that only three Agriculture University Libraries Website make available a good collection the link to suggest/recommend books by readers the library collection, The author recommended that all libraries make available a link on their website to recommend books by users so that they can feel free to arrange and procure books as per their wants.

**Savitha (2016)** examined the content of nine Deemed University Library Websites of Karnataka state. The findings result exposed that 100% of Deemed University Library Websites mentioned library information, journals, about institutions, copyright, books, and 89% of Deemed Universities mentioned information about working hours, library sections, and about the back volume of journals. It was found from the study that 100% of Deemed University Library Website subscribing e-journals, e-databases, e-books, and also 44% of Deemed Universities Library Website stated information link for Twitter and Facebook facilities.

**Kaushik (2015)** assessed and used a checklist method of 120 points to evaluate the collected data on various resources, services, facilities, and further remaining information available in Twenty-Eight NIT library websites. Findings result disclosed that the majority of NIT library websites revealed information about library book collection, accuracy, logo, miscellaneous services, electronic resources, and sections, etc. but, missing information on reliability search interfaces, library mission statements, currency, cloud-computing based services, and Web 2.0 applications, etc.

**Tiwari and Pandit (2014)** evaluated the content of the four Agricultural Universities Library Websites in Maharashtra by using the checklist method. Finding results displayed that all four agricultural university libraries website are not having a separate website and there is no information mentioned about the library staff, no common format/uniformity for content management on their respective website; as well as the date of updating is also missing. The author recommended that website developers must design users friendly, clear structure; easily understandable language; short and brief information, and all information to be up-to-date. The administrator must offer the opportunity to encompass the expert and skilled professional staff of the library in designing and developing the library website.

#### **4. Objectives of the Study**

The present study is carried out to undertake the following objectives.

- 1) To examine the current status of e-resources, services, library-related information, and other facilities existing on the Veterinary University Library Websites /Webpage;
- 2) To find out whether the Veterinary University Library Websites/Webpage makes mobile-friendly website/webpage for searching information through Mobile;

- 3) To examine whether the Veterinary University Library Websites/Webpages has a separate website/webpage;
- 4) To determine the direct link on parents' home page or link under academics, infrastructure, facilities, etc in Library website/webpage;
- 5) To examine the Web 2.0 Tools that have been adopted by Veterinary University Library Websites as revealed on their library websites/webpages.
- 6) To find out the Alexa ranking of Veterinary University Library Websites/webpage.

## 5. Scope and Limitation of the Study

The scope of the present study is to assess the content of the existing library e-resources, general information, library services, about the library collection, RSS feeds, chats with the librarian, contact information, etc. through library websites. However, 08 Veterinary University Websites/Webpages were listed under ICAR Website, this study was confined to the eight premier Veterinary University Websites/Webpages including 01 Deemed University (ICAR-Indian Veterinary Research Institute, Izatnagar) in Table 1. But the researcher is not covered in Tamil Nadu Veterinary & Animal Sciences University, Chennai Library Website/Webpage due to the non-availability and webpage under construction of the Website/Webpage during the study period.

**Table 1: List of Veterinary University Websites in India**

Sl. No.	Name of the Veterinary University	URL	Library Website URL
1	Sri Venkateswara Veterinary University, Tirupati	<a href="https://svvu.edu.in/">https://svvu.edu.in/</a>	<a href="https://svvu.edu.in/library/">https://svvu.edu.in/library/</a>
2	Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar	<a href="https://www.luvas.edu.in/">https://www.luvas.edu.in/</a>	<a href="https://luvas.edu.in/library.html">https://luvas.edu.in/library.html</a>
3	Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar	<a href="http://kvafsu.edu.in/">http://kvafsu.edu.in/</a>	<a href="http://kvafsu.edu.in/university_library_profile.pdf">http://kvafsu.edu.in/university_library_profile.pdf</a>
4	Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala	<a href="https://www.kvasu.ac.in/">https://www.kvasu.ac.in/</a>	<a href="https://covas-opac.l2c2.co.in/">https://covas-opac.l2c2.co.in/</a>
5	Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	<a href="https://www.gadvasu.in/">https://www.gadvasu.in/</a>	<a href="https://www.gadvasu.in/page/-about-the-library/109/108">https://www.gadvasu.in/page/-about-the-library/109/108</a>
6	Rajasthan University of Veterinary & Animal Sciences, Bikaner	<a href="http://rajuvas.org/">http://rajuvas.org/</a>	<a href="http://rajuvas.bestbookbuddies.com/">http://rajuvas.bestbookbuddies.com/</a>
7	Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad	<a href="https://tsvu.nic.in/">https://tsvu.nic.in/</a>	<a href="https://tsvu.nic.in/LIS.aspx">https://tsvu.nic.in/LIS.aspx</a>

8	ICAR-Indian Veterinary Research Institute, Izatnagar	<a href="http://www.ivri.nic.in/">http://www.ivri.nic.in/</a>	<a href="http://www.ivri.nic.in/Division/cenfc/nlvs/default.aspx">http://www.ivri.nic.in/Division/cenfc/nlvs/default.aspx</a>
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## 6. Research Methodology

There are different methods for data collection tools to accomplish the research work. To undertake the aforesaid research objectives, the researcher used a web survey and observation method for data collection tools. The entire research work was considered and prepared with the help of a well structure checklist method. Sixty-five criteria were set based on the previous studies to collect research data from the specific library website and used the checked marked system, i.e., tick mark “√” for **Yes** (1) and cross sign “X” for **No** (0) to respectively content and feature provided in the Veterinary University Websites/Webpage under the present study.

## 7. Data Analysis

The present study is undertaken based on the availability of library information on 08 Veterinary University Websites/Webpages and 01 Deemed University as per ICAR Website by using predefined criteria during a period from 1<sup>st</sup> May to 15 June 2021 (Source: <https://icar.org.in/content/state-agricultural-universities-0> and <https://icar.org.in/content/deemed-universities>).

### 7.1 Classification by URL Extension of Veterinary University Websites/Webpages

Table 2 denotes the diverse URL extensions used by Veterinary University Websites/Webpages for their Library Website/Webpage. 3 (37.5%) of Veterinary University Websites/Webpages URL extension edu.in whereas 2 (25%) Veterinary University Websites/Webpages has nic.in for their respective Library Website/Web Page. Only 1 (12.5%) of the Veterinary University Websites/Webpages used ac.in which is followed by in and org URL extension.

**Table 2: Classification by URL Extension of Veterinary University Websites/Webpages**

Name of the Veterinary University	URL extension
Sri Venkateswara Veterinary University, Tirupati	edu.in/
Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar	edu.in/
Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar	edu.in/

Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala	ac.in/
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	in/
Rajasthan University of Veterinary & Animal Sciences, Bikaner	org/
Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad	nic.in/
ICAR-Indian Veterinary Research Institute, Izatnagar	nic.in/

## 7.2 Availability of Library Websites/Webpages

Table 3 represents the detailed information about the availability of the library website/web page of the Veterinary University Library Websites/Webpages. The researcher has set two parameters, viz., the library having a website/web page and the library having a separate website under the heading of the availability of libraries' website/web page. It is observed that all 8 (100%) of the Veterinary University Library Websites/Webpages has a website/webpage and only Rajasthan University of Veterinary & Animal Sciences, Bikaner has a separate portal/website along with a library webpage.

**Table 3: Availability of Library Websites/Webpages**

<b>Name of the Veterinary University</b>	<b>The library has a website/webpage</b>	<b>The library has a separate website</b>
Sri Venkateswara Veterinary University, Tirupati	✓	X
Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar	✓	X
Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar	✓	X
Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala	✓	X
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	✓	X
Rajasthan University of Veterinary & Animal Sciences, Bikaner	✓	✓



Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad	✓	X
ICAR-Indian Veterinary Research Institute, Izatnagar	✓	X
<b>Total Score (Max. 8)</b>	<b>8 (100%)</b>	<b>1 (12.5%)</b>

### 7.3 Accessibility of Library Websites/Webpages

Table 4 illustrates the accessibility of the library website/web page of the Veterinary University Library Websites/Webpages. The link to the library website/web page must be provided directly on the parent's home page so that the information seeker can be accessed without any difficulty for everyone. If any library website is not given a direct link, then anyone has to hunt for under each heading/category for getting their chosen link to the web page/website. The analysis of the study reveals that 7 (87.5%) of Veterinary University Library Websites/Webpages has a direct link on parents' home page which is followed by 2 (25%) of the Veterinary University Library Websites/Webpages has a link under infrastructure, facilities, etc.

**Table 4: Accessibility of Library Websites/Webpages**

<b>Name of the Veterinary University</b>	<b>Direct link on parents' home page</b>	<b>Link under Infrastructure, facilities, etc.</b>
Sri Venkateswara Veterinary University, Tirupati	✓	✓
Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar	X	✓
Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar	✓	X
Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala	✓	X
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	✓	X
Rajasthan University of Veterinary & Animal Sciences, Bikaner	✓	X
Sri PV Narsimha Rao Telangana Veterinary	✓	X

University, Hyderabad		
ICAR-Indian Veterinary Research Institute, Izatnagar	✓	X
<b>Total Score (Max. 8)</b>	<b>7 (87.5%)</b>	<b>2 (25%)</b>

#### 7.4 Basic Information on Mobile-Friendly Test

Mobile-Friendly Test is a device where anyone can assess a respective website to understand whether it is a mobile-friendly website or not. Based on the present study concern, the researcher adopted the Mobile-Friendly Test of Google Search Console (<https://search.google.com/test/mobile-friendly>). It is very simple to paste the URL of the particular website into the revealed space provided area and then click test URL within a few seconds, the result will be shown. It is observed that the majority 6 (75%) of Veterinary University Library Websites/Webpages are user-friendly to visit websites/webpages.

**Table 5: Accessibility and Mobile-Friendly Test**

<b>Name of the Veterinary University</b>	<b>Mobile-Friendly Test</b>
Sri Venkateswara Veterinary University, Tirupati	X
Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar	✓
Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar	X
Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala	✓
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	✓
Rajasthan University of Veterinary & Animal Sciences, Bikaner	✓
Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad	✓
ICAR-Indian Veterinary Research Institute, Izatnagar	✓
<b>Total Score (Max. 8)</b>	<b>6 (75%)</b>

### 7.5 Alexa Ranking of Veterinary University Websites

Website ranking (Alexa) is a mechanism where anyone can assess a respective website to understand the ranking system set by [www.alexa.com](http://www.alexa.com) to calculate by using an amalgamation of average daily visits to the selected websites and the number of page views on the selected sites over the previous three months universally. As per the study concern, the researcher adopted the Alexa Ranking System (<https://www.alexa.com/siteinfo>). It is very simple to paste the URL of the particular website into the exposed space provided area and then click test URL within a few seconds, the result will be shown. Alexa Traffic Rank shows that Rajasthan University of Veterinary & Animal Sciences, Bikaner was secured on the top with 3,39,564 global rank followed by Sri Venkateswara Veterinary University, Tirupati 3,78,288 rank, ICAR-Indian Veterinary Research Institute, Izatnagar 4,15,572 rank, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana 5,08,643 rank, Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar 5,55,135 rank, Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar 7,99,498 rank, Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad 8,91,719 rank and Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala 20,99,170 rank. Further, it is observed that Alexa Traffic Rank shows Rajasthan University of Veterinary & Animal Sciences, Bikaner is holding on the first position with 42,798 Indian ranks, which is followed by Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana 64,151 rank, Sri Venkateswara Veterinary University, Tirupati 79,987 rank, ICAR-Indian Veterinary Research Institute, Izatnagar 88,457 rank, Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar 1,26,673 rank, Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar 1,26,769 rank and Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad 1,39,254 rank.

**Table 6 : Alexa Ranking of Veterinary University Websites**

<b>Name of the Veterinary University</b>	<b>Alexa Ranking (Global)</b>	<b>Alexa Ranking (India)</b>
Sri Venkateswara Veterinary University, Tirupati	3,78,288	79,987
Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar	5,55,135	1,26,769

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar	7,99,498	1,26,673
Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala	20,99,170	0
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	5,08,643	64,151
Rajasthan University of Veterinary & Animal Sciences, Bikaner	3,39,564	42,798
Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad	8,91,719	1,39,254
ICAR-Indian Veterinary Research Institute, Izatnagar	4,15,572	88,457
<b>Total Score (Max. 8)</b>		

(Source: <https://www.alexa.com/siteinfo>)

## 7.6 Basic Information on General Information

Table 7 represents the basic information available about Mission/Vision/Aims/Objectives Statement, Library Opening Hours, Contact Us, Library Rules and Regulations, Library Committee and Library Sections, etc. The analysis of the study reveals that only 6 (75%) of the Veterinary University Library Websites/Webpages have provided information about the library which is followed by the information about Library Opening Hours, Contact Us, and Library Rules and Regulations with 5 (62.5%). Only 4 (50%) of the Veterinary University Library Websites/Webpages have mentioned information Library Membership Details and 3 (37.5%) of the Veterinary University Library Websites/Webpages have given information about Mission, Library Sections and Library Staffs. It was further observed that 2 (25%) of the Veterinary University Library Websites/Webpages have mentioned information about Domain and Site Map /Google Map which is followed by the information about Library News and Events/Announcement, Ask a Librarian, Images/Photo Gallery, Useful/Important Links and Library Committee with 1 (12.5%).

**Table 7: General Information on Website/Webpage**

General Information	01	02	03	04	05	06	07	08	Total	%
About Library	✓	✓	✓	✓	✓	✓	X	X	6	75

Library Opening Hours/Working Hours/ Holidays	X	X	✓	✓	X	✓	✓	✓	5	62.5
Contact Us	✓	X	✓	✓	X	✓	✓	X	5	62.5
Library Rules and Regulations	✓	X	✓	✓	✓	X	✓	X	5	62.5
Library Membership Details	✓	X	✓	✓	X	X	✓	X	4	50
Mission/Vision/Aims/Objectives Statement	✓	✓	✓	X	X	X	X	X	3	37.5
Library Sections	X	X	✓	X	✓	X	✓	X	3	37.5
Library Staff/Team	✓	✓	✓	X	X	X	X	X	3	37.5
Domain	X	X	✓	✓	X	X	X	X	2	25
Site Map /Google Map	✓	X	X	✓	X	X	X	X	2	25
Library News and Events/Announcement	✓	X	X	X	X	X	X	X	1	12.5
Ask a Librarian/FAQ	X	X	X	✓	X	X	X	X	1	12.5
Images/Photo Gallery	✓	X	X	X	X	X	X	X	1	12.5
Useful/Important Links	✓	X	X	X	X	X	X	X	1	12.5
Library Committee/Advisory/	X	X	✓	X	X	X	X	X	1	12.5
<b>Total Score (Max. 15)</b>	<b>10</b>	<b>3</b>	<b>10</b>	<b>8</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>1</b>		

**Note:** Sri Venkateswara Veterinary University, Tirupati (01), Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar (02), Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar (03), Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala (04), Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana (05), Rajasthan University of Veterinary & Animal Sciences, Bikaner (06), Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad (07), ICAR-Indian Veterinary Research Institute, Izatnagar (08)

### 7.7 Library Collection Information on Websites/Webpages

The study makes an effort to assess the availability of information about library collection on the Veterinary University Library Websites/Webpages and the data is presented in Table 8. Only 5 (62.5%) of the Veterinary University Library Websites/Webpage have mentioned the information about printed books and 4 (50%) of Veterinary University Websites/Webpages have given information about Printed Journals, Theses & Dissertations and Back/Bound

Volume of Journals. It was further observed that CD/DVDs/CD ROM, Reference Sources/Books, Reports and General Magazines/Periodical 2 (25%). Only 1 (12.5) of Veterinary University Library Websites/Webpages provided information News Paper.

**Table 8: Library Collection Information on Website/Webpage**

<b>Library Collection</b>	<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>	<b>07</b>	<b>08</b>	<b>Total</b>	<b>%</b>
Printed Books	✓	✓	✓	X	X	X	✓	✓	5	62.5
Printed Journals	✓	X	✓	X	✓	X	✓	✓	4	50
Theses & Dissertations	✓	✓	✓	X	X	X	✓	✓	4	50
Back/Bound Volume of Journals	✓	X	✓	X	X	X	✓	✓	4	50
CD/DVDs/CD ROM	✓	X	✓	X	X	X	X	X	2	25
Reference Sources/Books	✓	X	X	X	X	X	✓	X	2	25
General Magazines/Periodical	X	X	✓	X	X	X	✓	X	2	25
Reports	✓	X	X	X	X	X	X	✓	2	25
News Paper	X	X	X	X	X	X	✓	X	1	12.5
<b>Total Score (Max. 9)</b>	<b>7</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>5</b>		

### 7.8 Library Services Information on Websites/Webpage

Library website makes affords available to the patrons by the particular libraries for the fulfill exploitation of the resources available in that library through online resources. and easy access to the library resources without any hindrance. Table 9 shows the information available about library services of the Veterinary University Library Websites/Webpages. It is observed from the study that the majority 3 (37.5%) of the Veterinary University Library Websites/Webpages page has given information on the library website/webpage about Wi-Fi Facility, ILL/DDS, Digital Library/E-Library, CCTV Camera, Reference Service, and Book Bank Facility which is followed by 2 (25%) of the Veterinary University Library Websites/Webpages has given information on the library website/webpage about Library and Information Science Course for PG and Ph.D. Students, Newspaper Clipping Service, User Education Programme/Service/User Guidance Service, Loan Privileges/ Lending Service, and Library Display/ New Arrivals Display. Only 1 (12.5%) of the Veterinary University Library Websites/Webpages has mentioned information about Literature Search Service,

Consultation Service, CD Service (CD-ROM Search), Database Access/ Database Search/ Database Service, Reading Rooms/Halls Facilities, SDI, Bibliography and Abstracting Services, Circulation Service/Functions, Referral Service, CAS, Orientation Programme and QR Code Facility.

**Table 9: Library Services Information on Websites/Webpages**

<b>Library Services</b>	<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>	<b>07</b>	<b>08</b>	<b>Total</b>	<b>%</b>
OPAC Facilities	✓	X	✓	X	✓	✓	✓	✓	6	75
Reprographic/ Photocopying/Xerox Service	✓	X	✓	X	✓	X	✓	✓	5	62.5
Internet-Based Services (Internet Browsing Service)/ Internet Surfing Facility	✓	X	✓	X	X	X	✓	✓	4	50
Resource Sharing (CeRA)	✓	X	✓	X	✓	X	✓	X	4	50
Wi-fi Facility	X	X	✓	X	X	X	✓	✓	3	37.5
ILL/DDS	✓	X	✓	X	X	X	X	✓	3	37.5
Digital Library/E-Library	✓	X	✓	X	X	X	✓	X	3	37.5
CCTV Camera	✓	X	✓	X	X	X	✓	X	3	37.5
Reference/Information Service	✓	X	✓	X	X	X	✓	X	3	37.5
(SC/ST) Book Bank Facility	✓	X	✓	X	X	X	✓	X	3	37.5
Library and Information Science Course for PG and Ph.D. Students	X	X	✓	X	X	X	✓	X	2	25
Newspaper Clipping Service	X	X	✓	X	X	✓	X	X	2	25
User Education Programme/Service/User Guidance Service	✓	X	✓	X	X	X	X	X	2	25
Loan Privileges/ Lending Service	X	X	✓	X	✓	X	X	X	2	25
Library Display/ New Arrivals Display	✓	X	✓	X	X	X	X	X	2	25
Literature Search Service	✓	X	X	X	X	X	X	X	1	12.5
Consultation Service	✓	X	X	X	X	X	X	X	1	12.5
CD Service (CD-ROM Search)	✓	X	X	X	X	X	X	X	1	12.5

Database Access/ Database Search/ Database Service	X	X	X	X	✓	X	X	X	1	12.5
Reading Rooms/Halls Facilities	X	X	X	X	X	X	X	✓	1	12.5
SDI	X	X	X	X	X	X	✓	X	1	12.5
Bibliography and Abstracting Services	✓	X	X	X	X	X	X	X	1	12.5
Circulation Service/Functions	✓	X	X	X	X	X	X	X	1	12.5
Referral Service	✓	X	X	X	X	X	X	X	1	12.5
CAS	X	X	✓	X	X	X	X	X	1	12.5
Orientation Programme	X	X	✓	X	X	X	X	X	1	12.5
QR Code Facility	X	X	X	✓	X	X	X	X	1	12.5
<b>Total Score (Max. 27)</b>	<b>17</b>	<b>0</b>	<b>17</b>	<b>1</b>	<b>5</b>	<b>2</b>	<b>11</b>	<b>6</b>		

### 7.9 E-Resources Information on Websites/Webpages

E-resources are the most important sources at the present situation of Covid 19 restriction (SOP) where the users can browse and download the e-resource of their requirement from at any place and at any time. Table 10 illustrates the availability of diverse e-Resources facilitated for the users by the Veterinary University Library Websites/Webpages which is further reflected in their respective libraries' websites. The present study reveals that the majority 6 (75%) of the Veterinary University Library Websites/Webpages subscribed to E-Journals and Consortia Resources (CeRA) which is followed by the information about the availability of Institutional Repository and Open Access Resources with 2 (25%). Only 7 (87.5%) of the Veterinary University Library Websites/Webpages have given information about the availability of E-Books and 5 (62.5%) of Veterinary University Library Websites/Webpages subscribed to Online Database. 1 (12.5%) of Veterinary University Library Websites/Webpages have mentioned information about the availability of E-Newspaper and Previous Year Question Paper.

**Table 10: E-Resources Information on Website**

<b>E-resources</b>	<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>	<b>07</b>	<b>08</b>	<b>Total</b>	<b>%</b>
E-Books	✓	✓	✓	✓	✓	✓	X	✓	<b>7</b>	<b>87.5</b>
E-Journals	✓	✓	✓	✓	X	✓	X	✓	<b>6</b>	<b>75</b>



Consortia Resources (CeRA)	✓	X	X	✓	✓	✓	✓	✓	6	75
E-Database/Online Database	✓	✓	✓	✓	X	✓	X	X	5	62.5
CD-ROM Database	✓	X	✓	✓	X	X	X	X	3	37.5
Institutional Repository	✓	X	X	✓	X	X	X	X	2	25
Open Access Resources	✓	X	X	✓	X	X	X	X	2	25
E-Newspaper	X	X	X	X	X	✓	X	X	1	12.5
Previous Year Question Paper	X	X	X	✓	X	X	X	X	1	12.5
<b>Total Score (Max. 9)</b>	<b>7</b>	<b>3</b>	<b>4</b>	<b>8</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>3</b>		

### 7.10 Use of Web 2.0 Tools in Veterinary University Websites

Web 2.0 tools make dynamic library websites and disseminate the information instantly. It was observed that the majority 2 (25%) of the Veterinary University Websites/Webpages has integrated web 2.0 tools such as Facebook, Twitter, LinkedIn, and ResearchGate which is followed by YouTube with 1 (12.5%).

**Table 11 : Use of Web 2.0 Tools in Veterinary University Websites**

Web 2.0 Tools	01	02	03	04	05	06	07	08	Total	%
Facebook	✓	✓	X	X	X	X	X	X	2	25
Twitter	✓	✓	X	X	X	X	X	X	2	25
LinkedIn	✓	✓	X	X	X	X	X	X	2	25
ResearchGate	✓	X	X	✓	X	X	X	X	2	25
YouTube	X	✓	X	X	X	X	X	X	1	12.5
<b>Total Score (Max. 5)</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

### 7.11 Rating Scale for Veterinary University Library Websites/Webpages

The five-point rating scale was fixed equally based on the maximum score of 65 of Content features (Table 7 to 11 with 65 points) to rank the Veterinary University Library Websites/Webpages, the rating scale was considered to rank "Outstanding" to "Needs Improvement" based on the five-point scale below (Table-12):

**Table-12: Rating Scale for Veterinary University Library Websites/Webpages**

Range (Score)	Rank
---------------	------

53-65	Outstanding
40-52	Very Good
27-39	Good
14-26	Average
01-13	Needs Improvement

### 7.12 Total Score and Ranking of Veterinary University Websites/Webpages

The total score of study Veterinary University Library Websites/Webpages is presented in Table 11 based on previous respective Tables 7 to 11 entitled “Total Score of Veterinary University Websites/Webpages”.

**Table 13: Total Score and Ranking of Veterinary University Websites/Webpages**

Name of the University	T 7	T 8	T 9	T 10	T 11	Total Score (Max 65)	Grade	Rank
Sri Venkateswara Veterinary University, Tirupati	10	7	17	7	4	45 (69.23%)	Very Good	1 <sup>st</sup>
Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar	10	6	17	4	0	37 (56.92%)	Good	2 <sup>nd</sup>
Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad	5	7	11	1	0	24 (36.92%)	Average	3 <sup>rd</sup>
Kerala Veterinary and Animal Sciences University, Pookode, Wayanand, Kerala	8	0	1	8	1	18 (27.69%)	Average	4 <sup>th</sup>
ICAR-Indian Veterinary Research	1	5	6	3	0	15 (23.07%)	Average	5 <sup>th</sup>

Institute, Izatnagar								
Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar	3	2	0	3	4	12 (18.46%)	Needs Improvement	6 <sup>th</sup>
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	3	1	5	2	0	11 (16.92%)	Needs Improvement	7 <sup>th</sup>
Rajasthan University of Veterinary & Animal Sciences, Bikaner	3	0	2	5	0	10 (15.38%)	Needs Improvement	8 <sup>th</sup>

It is observed from the study that based on the total score obtained by Sri Venkateswara Veterinary University, Tirupati holds a “Very Good” cursory glimpse securing the first position, second, and third respectively as per the ranking score of Table 13. The analysis of the result revealed that Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana and Rajasthan University of Veterinary & Animal Sciences, Bikaner did not get up to the mark of the total score which further falls under the category “Needs Improvement” and secured the position sixth, seven and eight.

## 8. Major Findings

1. Sri Venkateswara Veterinary University, Tirupati and Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar Library Websites/Webpages 10 (66.66%) has provided the highest number of general information such as About Library, Library Staff/Team, Mission/Vision/Aims/Objectives Statement, Library Membership Details, and Library Membership Details, etc.
2. Sri Venkateswara Veterinary University, Tirupati and Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad 7 (77.77%) has mentioned the highest number of collection information viz., Reference Sources/Books,

Back/Bound Volume of Journals, Theses & Dissertations, Printed Journals and Printed Books.

3. Sri Venkateswara Veterinary University, Tirupati and Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar 17 (62.96%) have given the maximum number of library services information namely, Library Display/ New Arrivals Display, User Education Programme/Service/User Guidance Service, (SC/ST) Book Bank Facility, Reference/Information Service and Digital Library/E-Library, etc.
4. Kerala Veterinary and Animal Sciences University, Pookode, Wayanad, Kerala 8 (88.88%) have provided the highest number of e-Resource information such as E-Books, E-Journals, Previous Year Question Paper, Open Access Resources, Institutional Repository, and CD-ROM Database, etc.
5. Sri Venkateswara Veterinary University, Tirupati and Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar 4 (80%) have used Web 2.0 tools such as Facebook, Twitter, and LinkedIn, etc.
6. 7 (87.5%) of Veterinary University Library Websites/Webpages has Direct link on parents' home page which is followed by 2 (25%) of the Veterinary University Library Websites/Webpages has a Link under infrastructure, facilities, etc.
7. It is further revealed that Rajasthan University of Veterinary & Animal Sciences, Bikaner was secured on the top with 3,39,564 global rank.
8. Rajasthan University of Veterinary & Animal Sciences, Bikaner was holding on the first position with 42,798 Indian ranks.
9. It is further observed that the majority 6 (75%) of Veterinary University Library Websites/Webpages are user-friendly to visit websites/webpages.

## **9. Conclusion**

Website is one of the important tools for the particular institution to show the visibility of the institution's output which are to be helpful for the researchers and academicians. Library websites make available the relevant information its users as per the needs and requirements who reside in remote areas can visit the site of universities without physically visiting the institution. The finding result revealed that none of the Veterinary University Websites/Webpages comes under the "Outstanding" score criteria which reflects the grade point 53-65". It was observed that Sri Venkateswara Veterinary University, Tirupati 45 (69.23%) scores the highest number followed by Karnataka Veterinary, Animal and Fisheries

Sciences University, Bidar 37 (56.92%) among the Veterinary University Websites/Webpages are taken for the study. Sri PV Narsimha Rao Telangana Veterinary University, Hyderabad obtained the third rank with 24 (36.92%) scores. Further, it is revealed that Lala Lajpat Rai University of Veterinary & Animal Sciences, Hisar, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana and Rajasthan University of Veterinary & Animal Sciences, Bikaner did not get up to the mark of the total score which further falls under the category “Needs Improvement” and secured the position sixth, seven and eight.

## 10. Suggestions

Based on the analysis and the findings of the study the following suggestions are made to improve the Veterinary University Library Websites/Webpages in India.

- a) Library and Information Science Departments should think to include the course curriculum of designing library websites software namely WordPress, Drupal, Joomla, and Blogger, etc. so that library science students get familiar with the software along with they can adjust the job in every sector;
- b) Veterinary University Websites/Webpage must integrate further cutting-edge technologies viz., Cloud-Based Services, Web 3.0, Resource Discovery Service, Q R Code Facility, Android App, etc. as per the necessity of users so that users must feel fulfilled with the services facilitated by the library;
- c) It is recommended that Library Science Schools and Libraries should organise workshop/ continuing education programmes/seminar to train the LIS Professionals on Library Website designing and evaluation techniques;
- d) Librarian and Website Administrator must pay special attention regularly to update the information rather than only administrative information to attract the users.

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