

## Problems and Prospects of Digital Libraries of select Libraries in Telangana: A study

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**Abstract-** *The current paper discussed the various problems and prospects of digital library of select libraries in Telangana. Libraries facing with various problems the select libraries of this state are growing day by day with chasing the challenges. They are continuously doing their best effort in supporting the digital libraries of this state with their digital library software's and other helping hand.*

**Keywords:** Digital library, digital resources, problems, prospects, Telangana.

### Introduction

Information Communication Technology (ICT) and digital library system plays an important role in present day's higher academic system. Digital library is important sector of information system. Development of digital library system is demand of time to fulfil the information needs. Select Libraries in Telangana comprises of Hyderabad, Warangal, Ranga Reddy, Medchal, Districts. The select libraries of this entire region digital library development and digital library system are still in a very initial stage. I have selected 25 select libraries of the Telangana for this research study. These select libraries are taken into account of study on the basis of importance and established period. Following select libraries in Telangana state covers under this research study.

S.No	Name of the Institute	Place	Year of Establishment
1	International Crops Research Institute for the Semi-Arid Tropics	Hyderabad	1972
2	National Institute of Agricultural Extension Management	Hyderabad	1987
3	National Geophysical Research Institute	Hyderabad	1961
4	Osmania University	Hyderabad	2018
5	Jawaharlal Nehru Technological University	Hyderabad	1990
6	University of Hyderabad	Hyderabad	1974
7	NALSAR University	Hyderabad	1998
8	Indian Institute of Chemical Technology	Hyderabad	1944
9	Kaloji Narayana Rao University of Health Sciences	Warangal	2014
10	P.V. Narasimha Rao Telangana Veterinary University	Hyderabad	2014
11	National Institute of Rural Development	Hyderabad	1983
12	Pottisreeramulu Telugu University	Hyderabad	1985
13	DR. B.R.Ambdhkar Open University	Hyderabad	1982
14	Kakatiya Uuniversity	Hanumakonda	1976
15	Maulana Azad National Urdu University	Hyderabad	1998
16	English and Foreign Languages University	Hyderabad	1958
17	Osmania Medical College	Hyderabad	1846
18	P.J.T.S. Agriculture University	Hyderabad	1974
19	Sri Konda Laxman Telangana State Horticultural University	Hyderabad	2014
20	National Academy of Agricultural Research Management	Hyderabad	1976
21	Telangana State Institute of Panchayat Raj and Rural Development	Hyderabad	1967

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22	Tata Inisute of Social Sciencess	Hyderabad	2011
23	DURGA BAI DESHMUKH, CDS	Hyderabad	1962
24	State Central Library	Hyderabad	1891
25	Indian School of Business	Hyderabad	2001

### **Related Studies:**

**Das and Dutta (2004)** discuss the need for audit and control of digital library systems. The authors identify the elements of audit and control that enhancing the capabilities and effectiveness of digital libraries. Finally, Ravi, Chandra and Sharma (2000) look at emerging trends and the future of digital libraries in terms of their usefulness and cost effectiveness. An article that reaffirms the evolutionary position of the electronic library as the predecessor of digital libraries by **Deb and Kar (2005)** describes the setting up of the electronic library at The Energy and Resources Institute (TERI). The TERI electronic library opened for its researchers in 1999 and includes a number of services. The concepts of a physical electronic library and a virtual electronic library are discussed including the various resources and benefits of the TERI electronic library. **Trivedi (2010)** Rapid advances in information technologies have revolutionized the role of libraries. As a result, libraries face new challenges, competitors, demands, and expectations. Libraries are redesigning services and information products to add value to their services and to satisfy the changing information needs of the user community. Traditional libraries are still handling largely printed materials that are expensive and bulky. They attempt to provide instant access to digitized information and consist of a variety of information, including multimedia.

### **Statement of the Problem**

Without problem no research has been done. When problem arises people think about its solution. In everyday life we have to face various problems. In the field of digital library implementation of select libraries of Telangana have various problems, which are taken into account through this study. After consultation various literatures published in the field of in the libraries of India as well as Indian scenario the present case study is an earnest attempt to find out the real select libraries in Telangana. In the changing environment of digital Library era. The lack behind of national development. After finding the gap of development in digital library systems the hiding problems have been accounted in this study through a case study of select libraries in Telangana.

### **Objectives of the Study**

1. To find out what are digital resources collection and management in select libraries in Telangana state.
2. To find out the existing status of the strategies and network based infrastructure in
3. The digital libraries of select libraries in Telangana
4. To then find out the various open source digital library software's used by the
5. Digital libraries of select libraries in Telangana state.
6. To find out the problems in digital libraries while functioning of the prospects by
7. The librarian of the select libraries in Telangana.

### **Scope of the Study**

The present study about the problems and prospect of digital libraries of among the select liberties in Telangana, has so many Scopes as well as limitations also. Due to lack of field

research in this study area of digital library implementation and digitization in Telangana, will create various scopes for further studies. The select libraries of Telangana can be grow by implementing ICT infrastructure and digitization for creating better academic environment. When components and digital library system will establish users of select libraries will get more benefited in their study and research aspect. Development of the select libraries with digital library environment will create better scope for academic development. As a sample basis major importance of select has been undertaken in this study. So entire population are not covers under this study which is a prime limitation in this research study. Due to lack of infrastructural development communication gap in the area of research all research instrumentation will not be apply for this study.

### **Research Methodology**

For the present study “Problems and Prospect of Digital library Implementation among the select Libraries of Telangana: A Study” the survey research method has been applied. Under this survey the different tools and techniques has been applied which are basically questionnaire. As a case study of problems and prospect of development of digital library system of the university libraries of Telangana under total population of the 25 no’s of select library has been taken into account of this study. Basic research question of this study is how far libraries of selected research area developed in Digital library Quantitative and Qualitative techniques also used wherever necessary in this study.

### **Data Sources**

Both primary and secondary data are used in this study programme. Journals article, conference/seminar papers, Books in this regard relating to the study area has been consulted. Statistical Technique: Descriptive statistics of raw data collected from research field has presented in this study.

### **Data Analysis and Interpretation**

Data analysis is a set of methods that are used to interpret data and convert it into useful and required information. Data analysis is used in all kinds of research whether it is a scientific research or any other commercial research. Data analysis is not only the lengthiest but also the most important part of a research. In order to analyse data the foremost requirement is to check the quality of data. This can be done by different methods like frequency counts, associations, normality and descriptive statistics. At the same time a researcher needs to check the quality measurement instruments as well. The survey, which was taken among the 25 leading libraries in Telangana, shows the following results: As per the determined field area of research the raw data collected from the select libraries. The survey, which was taken among the 25 leading select library of Telangana, shows the following results: As per the determined field area of research the raw data collected from the select libraries which are presented in table 1 to 4.

### **Type of Digital Resources**

Digital resources are available in different formats. These may be open access, subscription based, born- digital, digitized, etc. Based on the content and composition we have e-book-e-journal, ETD, e-database and various other forms. In the survey conducted, query was made on the availability of different types of digital resources in the libraries of Telangana. The

various types of digital resources available in the libraries are presented in the following from the below table, it is found that out of 25 libraries 24(96%) libraries have e-databases and libraries have e-journals (96%). These two types of digital resources are the core components of the digital resources collection in most of the select libraries in Telangana. ETD (40 %), e-book (40%) and other digital resources are not available in all select libraries in Telangana.

**Table.1. Digital Resources and the no. of Libraries**

Type of collection	Code used	No. of Libraries	Percentage
E-journal	Ejr	24	96
E-books	Ebk	10	40
E-Databases	EDb	24	96
E-Course material	Ecm	1	4
E-newspaper	Enws	24	96
E- Reports	ERp	2	8
E-standard	Esd	2	8
E-patent	Ept	1	4
Conference proceeding	Comp	6	24
Audiovisuals	Audv	15	60
Photographs	Phgr	1	4
Faculty Publications	Fap	9	36

### Software Packages Used for Digital Library

For creating and managing an Institutional Repository (IR) and Digital library of the in-house collection of an institution and university libraries are various Open Source (OS) software's are available. Both commercial and Software are available that can be used to develop digital library in the select libraries of Telangana. The following table and graph show the software package used and the number of libraries covered in the survey of this study.

**Table2. Digital Library Software Used**

Digital Library Software	No. of Libraries	Percentage
DSpace	11	44
EPrints	7	28
GSDL	2	8
Fedora	0	0
Others	1	4

It is initiated that out of 25 digital library resourcefulness, 84% (21) the open source digital library software being used in these digital libraries have been formulated. 11 (44%) are using DSpace open source software. Respondents 7 (28%) libraries have created their digital library by using Eprints software. Only two digital libraries 2 (8%) have adopted greenstone as their digital library software. It is found that no using Fedora digital library software. 4 (16%) libraries have no used any software and the Majority of the digital libraries who use Open source digital library software.

### Prospects of Digital Library

Problems are there in all the aspects of digital library developmental works but at the same time the prospect of carrying forward towards the goal is also existence. The following table shows the various prospects of library digital library in the area

**Table.3.Showing prospects of Digital library**

Prospects	No. of library	Percent
Prospect of proper planning	22	88
Prospect of infrastructural development	20	80
Prospect of trained manpower	20	80
Prospect of sound budget	18	72
Prospect of professional awareness	18	72
Prospect of software availability	21	84
Other prospects	6	24

The above table represents major prospects of digital library given by the librarians of 25 libraries under study. Form the above table it is revealed that proper planning is one of the major prospects with 22(88%) respondents, followed by infrastructure development with 20(80%), prospect of trained manpower with 20(80%), sound budget with 18(72%), prospect of professional awareness with 18(72%) and prospect of software availability is the least prospect with 22(88%) respondents. Only 6 libraries have other prospects.

### Problems of the Digital Library

The respondents were asked about the Problems they face in setting up a successful digital library. 17 potentially problems factors were identified from the literature and they were listed and the respondents were asked

**Table .4.Problems of Digital Library Development**

Problems of Digital Library	Number of Digital Libraries	Percentage
Lack of funding	19	76
Inability to absorb recurring costs	5	20
Lack of Staff skills / Relevant expertise	5	20
Lack of technical knowledge	7	28
Lack of development policies	5	20
Inadequate infrastructure	16	64
Lack of management support	16	64
Lack of professional recognition	9	36
Library staff not showing interest in digital initiatives	2	8
Lack of team work	2	8
Lack of adequate trained staff	18	72
Legal problems-IPR Issue	7	28
Network problem	5	20
Fragility of the media	2	8
Technological obsolesce	2	8
Security problem-Hacking, virus effect, Format of HD	3	12
Preservation problems	5	20

the above table it is found that 19 (76%) lack of funding is one of the major problems for all most of libraries, lack of infrastructural facilities with 64% (16), Lack of adequate trained staff in digitization Activities with 18 (72%), Lack of management support 16 (64%) lack of infrastructural facilities, Inability to absorb recurring costs, Lack of funding in the concern field, The above table represents major problems faced by the all libraries under study.

### **Major Findings**

- budget, it has been found that 84% digital libraries of select libraries do not have separate funds allocated for their digital libraries, (Table 6.8)
- Human resources, it has found Digital libraries has been 78% ranging from 1-3 people. 20% have people from 4-6, and 4 % with a range of 7-9. Only 8% library has more than 10 people involved in the digital library. (Table 6.11)
- 84% Majority of the digital libraries who use Open source digital library software. 44% are using DSpace open source software. 28% have using by Eprints software digital library. (table 6.13)
- Majority of select libraries 40% digital libraries have a collection in the range of 10000-50000. 16% libraries have more than 50000 documents. (Table 6.15)
- It is found that 96% libraries have e-databases and libraries have e-journals 96%. These two types of digital resources are available, ETD 40 %, e-book 40% digital resources are usable in all select libraries in Telangana. (Table 6.16)
- digital library having Lack of Problems , it is found that 76% lack of funding is one of the major problems for all most of libraries, lack of infrastructural facilities with 64%, (Table 6.29)
- It has been observed that 88% proper planning is one of the prospect, 80% prospect infrastructure development. 80% prospect of trained manpower, 80% sound budget, 72%, and prospect of professional awareness by 72% and prospect of software availability is the least prospect with 88%. (Table 6.30)

### **SUGGESTIONS/ RECOMMENDATIONS**

In the light of analysis of data collected, the findings of the survey, the opinions received from the Heads of select libraries and the users, the following suggestions/ recommendations are placed advance to ensure the proper utilization following suggestions are made on the basis of conclusions of the study:

- Energetic encoding of workshops, seminars, lectures, and other programme, must be originated by digital expert and promote the awareness of digital library between LIS specialists of the Telangana.
- Select libraries should frame standards for digital library put on, by the help of expert digital library. The proposed standards should be accepted by all select libraries of Telangana.

- Libraries must train their staff and need to reorganize their managerial arrangements to effectively handle of the digital library.
- Libraries must, specially, think to digital library home-grown of resources that are now in demand by the users of digital library resource.
- Libraries need to plan digital library implementation in a proper method. An organizational permitted assignment will be highly effective to ensure the successful completion and sustaining digital library developments.
- Libraries need to formulate digitization policy and get approval from the concerned authorities.
- Select Libraries should devote a percentage of their regular budgets to initiate digital library happenings as they cannot wait for external funding to process of digital library doings.
- Libraries need to work in co-operation on digital library resources. Later libraries should develop resource sharing networks and consortia.
- Select libraries should improve their readiness to carry out digital library strategies activities.
- Libraries should improve develop human resources, secure financial resources, their technical infrastructure, and develop digital library.
- Digital library compulsory a combination of Library and information science and information technology skill. Similarly, libraries may also search for in-house help in digital library plan from IT departments of their libraries.
- Select Libraries have to segment their involvements also trainings in digital library librarian with controlling other professionals done non-formal, texts, language, and communication
- Select Libraries must effort for a permissible framework for digital library developments.
- There is also no provision of 24x7 hrs access facilities in majority of cases. Hence it is suggested to have access to e-resources on 24x7 bases to the users so that they can Access from their desktops/laptop in campus and from home or outside office Premises, if possible.
- Desktop and computer terminals should be installed in the library for the useful and more funds should be given to acquire electronic resources.
- The Technological needs to be improved for quick access to the available e-resources.
- The speediness of Internet needs to be increased for access of the available digital resources.
- Management should provide sufficient funds for establishment digital libraries of select libraries in Telangana libraries.

## **BIBLIOGRAPHY**

1. Das, A.K., C. Dutta and B.K. Sen. 2007. Information retrieval features in Indian digital libraries: a critical appraisal. *OCLC systems and services: International digital library perspectives*, 23(1): 92–104.
2. Ganguly, R.C. (2007) *Digital Libraries: Challenges and Prospect* (Delhi: Isha Books,)
3. Kar, D.C. and M. Seadle. 2004. International conference on digital libraries 2004 Conference. *Library HiTech News* 21(5): 3–7

4. Mahesh, Gopalakrishnan and Mittal, Rekha (2008). Digital libraries in India: A review. *LIBRI*, 58:15-24
5. Sinha M.K. and Bhattacharjee, J. (2006) Developing Institutional Repositories in University Libraries of North Eastern Region of India: A Case Study of Assam University, Silchar, Proc. 4th Convention, *PLANNER, Mizoram University, Aizawl, India, 09-10 November*,, 311-321.
6. Sinha, M.K. (2010) Status of Information Communication Technology (ICT) Infrastructure and Computerization of University Libraries of North Eastern Region of India: A Survey, *Librarian: Journal of Library and Information Science*, 17(1), 16-29.
7. Sinha, M.K. and S. Sahay, (2006) Status of Information Infrastructure and Computerized Library and Information Services of University Libraries in India for Information Sharing and Global Access in Network and Digital Environment, Proc. 1st *International Conference on Digital Libraries, New Delhi, India, 5-8 December*, , 66 -89.
8. Trivedi, Mayank (2010), Digital Libraries: Functionality, Usability, and accessibility. *Library Philosophy and Practice (ejournal)*. 381
9. Uday Krishna Konwar , (2015) Problems and Prospect of ICT Implementation and Digitization among the Major College Libraries of Barak Valley, Southern Assam: A Case Study. *IOSR Journal Of Humanities And Social Science*, 20(2), 16-21

