1. INTRODUCTION

Open source software (OSS) is gaining popularity in the library profession nowadays and emerged as an alternative model of and revolutionised the software development. In the last decade, several attempts were made to develop software for libraries on open source platform and as a result, many open source library automation software, open source digital library software and other useful OSS for libraries drawing the attention of librarians. Avanti Library Systems grew out of a project started in 1998 by Peter Schlumpf to develop a simple low cost open source library system for small libraries. The Evergreen Project was initiated by the Georgia Public Library System in 2006. Greenstone software was originally released in 2000. E-print was developed at the University of Southampton, UK and its first version was released in 2000. E-print was developed at the University of Southampton, UK and its first version was released in 2000. The first version of DSpace was released in November 2002. KOHA that was originally developed by Katipo Communications Limited, New Zealand for the Horowhenua Library Trust in 1999 was released as free software under General Public License in 2000. On 9 January 2008, New GenLib was declared Open Source Software under GNU GPL License by Verus Solutions. VuFind was developed and maintained at Villanova University’s Falvey Memorial Library and released in 2007. Open Journal Systems (OJS) is an online journal management and publishing platform that was first launched in 2002 as OSS.

The term OSS can be confusing at times. Typically, people associate OSS with software that you can download and install for free. This definition focuses solely on the cost aspect. However, some OSS can be downloaded and installed for free, cost really is not what OSS is about. As its core, OSS is about the freedom to adopt and customise software1.

Open source software can be defined as computer software for which the human-readable source code is made available under a copyright license that meets the open source definition. This permits users to use, change, and improve the software, and to distribute it in modified or unmodified form. It is very often developed in a public, collaborative manner.

1.1 Open Source Software for Libraries

1.1.1 KOHA

KOHA is the first open-source integrated library system (ILS) that was originally developed by katipo communications limited, New Zealand for the Horowhenua Library Trust in 1999. KOHA was released as free software under general public license in 2000. It supports all modules of library applications as well as has support for Z39.50 server, multilingual support, supports library standards such as MARC-21/UNIMARC, OAI-PMH, ISO-2709 and also supports several next generation OPAC.
features. KOHA community has been providing support through its mailing lists and IRC rooms. Software has detailed online manual and there are several power-point presentations available on various modules of KOHA on internet. Many commercial vendors provide support for KOHA. In India, OSS Labs, Mumbai; Open LX, Anant Corporation, Mumbai, etc., are the main commercial players who provide support for KOHA. The software can handle millions of records and transactions².

1.1.2 NewGenLib

NewGenLib is an integrated library management system developed by Verus Solutions Pvt Ltd. Domain expertise is provided by Kesavan Institute of Information and Knowledge Management in Hyderabad, India. NewGenLib version 1.0 was released in March 2005. The software has been distributed under the traditional commercial license model since 2003. In January 2008, a decision was made to offer the system as OSS under the GNU GPL (General Public License). On 9 January 2008, NewGenLib was declared OSS under GNU GPL Licence by Verus Solutions. Functional modules of NewGenLib are completely web-based. NewGenLib complies with international metadata and interoperability standards: MARC-21, MARC-XML, Z39.50, SRU/W, OAI-PMH.

1.1.3 OpenBiblio

OpenBiblio³, which is being developed by a small number of people, has been an off and on again project. Development activity peaked in 2006-2007 with the release of its 0.6.0 version. The latest version 0.7.1 has been released on 18 March 2012. This version 0.7.1 is recommended for new installations and for updating older versions of OpenBiblio, including all versions from openbiblio.de. The product includes cataloging, circulation, and patron access catalog modules. The programming languages are PHP and LAMP, and the operating system is Linux. UNIMARC is supported. There is an online demo and software can be downloaded. There is no reliable scalability information for LAMP. OpenBiblio runs under Linux or Windows, any web server, PHP, and MySQL.

1.1.4 DSpace

DSpace has been designed and developed by Massachusetts Institute of Technology (MIT) libraries and Hewlett-Packard (HP). DSpace was designed as an open source application so that institutions could run with relatively few resources. It is to support the long-term preservation of the digital material stored in the repository. It is also designed to make submission easy. DSpace supports submission, management, and access of digital contents. DSpace can be installed on Linux, Unix and windows. DSpace is freely available under BSD licence. It is a platform that allows users to capture items in any format—in text, video, audio, and data. It indexes work, so users can search and retrieve items. DSpace provides a way to manage research materials and publications in a professionally maintained repository to give them greater visibility and accessibility over time.

1.1.5 E-prints

E-prints was developed at the University of Southampton, UK with the first version of the software publicly released in 2000. As the first professional software platform for building high-quality OAI-compliant repositories, E-prints is already established as the easiest and fastest way to set up repositories of open access research literature, scientific data, theses, reports, and multimedia. E-prints 3 is a major leap forward in functionality, giving even more control and flexibility to repository managers, depositors, researchers and technical administrators. The latest version of E-prints: v3.3.10 is available for Debian/Ubuntu, Redhat/Fedora and Windows. In brief, E-prints requires Apache (with mod_perl), MySQL and Perl with some extra modules.

1.1.6 Greenstone

Greenstone⁴ is a suite of software for building and distributing digital library collections. It provides a new way of organising information and publishing it on the internet. Greenstone is produced by the New Zealand Digital Library Project at the University of Waikato, and developed and distributed in cooperation with UNESCO and the Human Info NGO. It is an open-source, multilingual software, issued under the terms of the GNU General Public License. The aim of software is to empower users, particularly in universities, libraries, and other public service institutions, to build their own digital libraries. Greenstone was originally released in 2000. Greenstone is mainly programmed in C++ and Perl and runs on all versions of Windows, and Unix/Linux, and Mac OS-X. The complete Greenstone interface and all documentation are available in English, French, Russian and Kazakh. Greenstone also has interface in many other languages.

2. LITERATURE REVIEW

Patra⁵, et al., in their paper discussed the management of institutional repository in India using DSpace and presented the status of the digitisation of IR in India. Jose⁶ in his survey concluded that DSpace is the most widely used digital library software in India with 13 installations. E-prints and Greenstone are also used in India. However, digital libraries based on Fedora could not be found.
Sheeja identified the extent of adoption of KOHA, an open source ILS in libraries around the world through a web-based study. The study found that only 212 libraries are currently registered themselves in KOHA user group. There may be some more libraries that are using KOHA but not registered themselves in the user group. The study revealed that out of 20 KOHA installations in India, the major groups of libraries belong to Kerala (30%), Karnataka (15%), and Tamil Nadu (15%).

Biswa & Paul identified the extent of adoption of open source digital library software in various Institutions through online survey. They also compared the features of DSpace and Greenstone. In their web survey, it has found that 72 institutions have installation of the repository software in various parts of the world. DSpace with 42 installations seem to be the most popular choice among the digital library software packages and Greenstone has seven installations.

Kumar & Jasimudeen provide a brief picture of KOHA software adoption and the users’ perception about it in the Indian library scenario. They found that the software is popular among the southern states of India and the number of KOHA users in India is growing.

Roy, et al., conducted an analytical study of institutional repositories in India and found that open source digital library packages are gaining popularity nowadays. The different IRs use different types of OSS like DSpace, E-prefixs, Greenstone, Nitya, etc., Few IRs have not mentioned about type of software used. The study found that the DSpace software has the most installations 35 (59%), followed by E-prefixs 20 (33%). Greenstone is used by 2 (3%) repository and ranks at 3rd position. Nitya is used by only 1 repository.

3. OBJECTIVES
The main objectives of the study are to:
(a) Assess the status of open source software in India
(b) Institutions using open source software for library automation and/or for institutional repositories in public domain?
(c) Distribution of open source software in various states.
(d) Institutions by their type using OSS for library automation and institutional repository in public domain.

4. METHODOLOGY
Various sources have been used to find out the users of OSS in India such as visiting users' list available on the website of respective OSS, consulting case studies and research papers on OSS, searching on internet and communication with library professionals through various mailing lists such as NMLIS, LIS-Forum, etc.

Many academic institutions claim that they are using OSS for library automation and digital library. According to the list of KOHA users which is worldwide maintained by KOHA project volunteers: 83 libraries in India are using KOHA. The Directory of Open Access Repositories (http://www.opendoar.org/) and Registry of Open Access Repositories listed many Indian institutions using OSS for their digital/institutional repository but this study included only those institutions that could be verified by online accessing to their online library catalogue and digital/institutional repository as on April 2014. The data collected through various methods about institutions that are using OSS was analysed and presented.

5. RESULTS AND ANALYSIS

5.1 Distribution of Open Source Library Automation Software
Table 1 shows that 73 (80.22%) Indian Institutions are using KOHA followed by 10 (10.99%) Institutions that are using NewGenLib for library automation. Only 8 (8.79%) institutions are using OpenBiblio. No users found for Evergreen, ABCD, Emilda, Avanti, and other open source library management software in India on public domain.

<table>
<thead>
<tr>
<th>S. No</th>
<th>Software</th>
<th>No of institutions (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>KOHA</td>
<td>73 (80.22)</td>
</tr>
<tr>
<td>2</td>
<td>NewGenLib</td>
<td>10 (10.99)</td>
</tr>
<tr>
<td>3</td>
<td>OpenBiblio</td>
<td>08 (08.79)</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>91 (100.00)</td>
</tr>
</tbody>
</table>

5.2 Online Accessible Repositories
Table 2 presents distribution of 96 indentified repositories created by three different open source digital library/repository software. The list of organisations is with IRs/DLs using OSS are given in Appendix-1. It reveals that the majority of repositories 67 (69.79%) are using DSpace OSS whereas 26 (27.08%) are using E-prefixs. Greenstone is used by only 3 (3.13%) repositories and stands at 3rd position. Although many

<table>
<thead>
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<th>S. No</th>
<th>Software</th>
<th>No of repositories (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DSpace</td>
<td>67 (69.79)</td>
</tr>
<tr>
<td>2</td>
<td>E-prefixs</td>
<td>26 (27.08)</td>
</tr>
<tr>
<td>3</td>
<td>Greenstone</td>
<td>03 (03.13)</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>96 (100.00)</td>
</tr>
</tbody>
</table>
institutions claim that they are using OSS for library automation and digital library but it is not possible to trace and collect data about all the institutions that are using OSS offline in their library.

5.3 Type of Institutions using OSS

Table 3 shows the 166 institutions that are using OSS for library automation and digital repository in India at public domain. It is clear from table 5 that out of 166 institutions, 89 are academic institutions followed by 35 research institutions, 9 public libraries, 8 government organisations, 7 library consortium (union catalogues), 6 special libraries, 4 non-profit organisations, 2 schools and, 2 commercial organisations. 4 institutions are grouped in other category named National Institute of Science Communication and Information Resources (NISCAIR), Indian Academic of Sciences, National Informatics Centre (NIC) (Bibliographic Informatics Division) and INFLIBNET. Academic institutions are highest in number, which is 53.61 % of total number of institutions followed 21.08 % research institutions.

Table 4 shows that 8 institutions in India developed two institutional repositories using OSS. Out of 8 institutions, 4 institutions named Cochin University of Science and Technology, Indian Institute of Technology (New Delhi), NISCAIR and INFLIBNET are using Dspace for their both repositories. Other 3 institutions named Indian Institute of Science (Bangalore), National Institute of Technology (Rourkela), and University of Mysore are using Dspace and E-print for their two different repositories. Indian Institute of Management (Kozhikode) is using Dspace and Greenstone for their two different repositories.

Table 5 shows that 14 institutions in India using OSS for both institutional repository as well as for library automation. Out of 14 institutions, 9 institutions, namely, Bose Institute, Cochin University of Science and Technology, Human Rights Law Network, IndraPrastha Institute of Information Technology, Indian Institute of Technology (Bombay), Jawaharlal Nehru Centre for Advanced Scientific Research, North-Eastern

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Table 4. Institutions having two repositories using open source software

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Institutions</th>
<th>Software used</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cochin University of Science and Technology</td>
<td>Dspace for both</td>
</tr>
<tr>
<td>2.</td>
<td>Indian Institute of Technology (New Delhi)</td>
<td>Dspace for both</td>
</tr>
<tr>
<td>3.</td>
<td>NISCAIR</td>
<td>Dspace for both</td>
</tr>
<tr>
<td>4.</td>
<td>INFLIBNET</td>
<td>Dspace for both</td>
</tr>
<tr>
<td>5.</td>
<td>Indian Institute of Management (Kozhikode)</td>
<td>Dspace and greenstone</td>
</tr>
<tr>
<td>6.</td>
<td>University of Mysore</td>
<td>Dspace and E-print</td>
</tr>
<tr>
<td>7.</td>
<td>Indian Institute of Science (Bangalore)</td>
<td>Dspace and E-print</td>
</tr>
<tr>
<td>8.</td>
<td>National Institute of Technology (Rourkela)</td>
<td>Dspace and E-print</td>
</tr>
</tbody>
</table>

Table 5. Institutions using open source software for library automation and digital repository

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Institutions</th>
<th>Software used</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ashoka Trust for Research in Ecology and the Environment, Bangalore</td>
<td>KOHA &amp; E-print</td>
</tr>
<tr>
<td>2.</td>
<td>Bose Institute, Kolkata</td>
<td>Dspace &amp; KOHA</td>
</tr>
<tr>
<td>3.</td>
<td>Christ University Library, Bangalore</td>
<td>E-print &amp; KOHA</td>
</tr>
<tr>
<td>4.</td>
<td>Cochin University of Science and Technology, Cochin</td>
<td>Dspace &amp; KOHA</td>
</tr>
<tr>
<td>5.</td>
<td>Human Rights Law Network, New Delhi</td>
<td>Dspace &amp; KOHA</td>
</tr>
<tr>
<td>6.</td>
<td>IndraPrastha Institute of Information Technology, New Delhi</td>
<td>Dspace &amp; KOHA</td>
</tr>
<tr>
<td>7.</td>
<td>Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore</td>
<td>Dspace &amp; KOHA</td>
</tr>
<tr>
<td>8.</td>
<td>North-Eastern Hill University, Shillong</td>
<td>Dspace &amp; KOHA</td>
</tr>
<tr>
<td>9.</td>
<td>O.P. Jindal Global University, Sonipat</td>
<td>Dspace &amp; KOHA</td>
</tr>
<tr>
<td>10.</td>
<td>S-VYASA University(Swami Vivekananda Yoga Anusandhana)</td>
<td>Dspace &amp; KOHA</td>
</tr>
<tr>
<td>11.</td>
<td>University of Mysore, Mysore</td>
<td>Dspace, Eprint &amp; KOHA</td>
</tr>
<tr>
<td>12.</td>
<td>Indian Agricultural Research Institute, Delhi</td>
<td>Eprint &amp; KOHA</td>
</tr>
<tr>
<td>13.</td>
<td>Osmania University, Hyderabad</td>
<td>Dspace &amp; NewGenLib</td>
</tr>
<tr>
<td>14.</td>
<td>Indian Institute of Technology, Bombay</td>
<td>Dspace &amp; KOHA</td>
</tr>
</tbody>
</table>
Hill University, O.P. Jindal Global University and S-VYASA University using Dspace and KOHA. Also 3 institutions, namely, Ashoka Trust for Research in Ecology and the Environment, Christ University Library and Indian Agricultural Research Institute using E-print and KOHA. The Osmania University using Dspace and NewGenLib and University of Mysore using Dspace, Eprint and KOHA as Mysore University having two repositories.

Table 6 shows that state-wise distribution of 166 Indian Institutions that are using open source digital library software. It is evident from the Table 7 that out of 166 institutions, majority of institutions i.e., 34 (20.48 %) are from Karnataka followed 25 (15.06 %) institutions from New Delhi, 20 (12.05 %) from Maharashtra, 15 (9.04 %) from Tamil Nadu, 12 (7.23 %) from West Bengal, 10 (6.02 %) institutions form Kerala, 8 (4.82) from Gujrat, 7 (4.22 %) from Uttar Pradesh and 5 (3.01 %) from Andhra Pradesh and Haryana respectively.

5.4 Implementation of OS Library Management Software

It was observed from the web OPAC of each institution and received responses that out of 91 installations of open source library management software in India (Appendix-2), 42 (46.15 %) installations of open source library management software were done by software companies, 10 (10.99 %) installations by library staff and 8 (8.79 %) installations were done by IT staff. The installation sources of 31 institutions not traced, as they have not given any information on their OPAC.

Table 7 shows that out of 42 installations of open source library management software from software companies, highest 30 (71.43 %) were done by Nucsoft OSS Labs followed by 7 (16.67 %) installations from OpenLX Technologies Pvt. Ltd. and 3 (7.14 %) installations from First Ray Consulting in India. Only one installation was found from Mahiti Infotech and Ximerono respectively.

6. CONCLUSIONS

Information technology has important role in rural, industrial, cultural and research development of any country. It is virtually impossible to carry out any meaningful educational activities without the help of libraries and information services. There are many OSS applications available for every educational activities including library automation, content management system, institutional repository, learning management, and digital library. OSS can offer cheap and advanced solutions to Indian libraries. The library professionals of India awareness, perceptions and intentions to adopt OSS in libraries but most of library professionals in India still lack of required technical knowledge and facilities for
successfull implementation of OSS in libraries. However, adoptions of OSS in Indian libraries is increasing day by day but at slow speed. While a number of open source library management software users reported in India but the numbers of OPACs that are operational and available in public domain are fewer. It is clear from the study that only 91 institutions in India using open source library management software with their OPAC in public domain. Out of 91 institutions, 73 institutions are using KOHA, 10 organisation using NewGenLib and 8 institutions using OpenBiblio. There are no users found in India for other open source library management software such as Evergreen, Avanti, E-mail, GNU library management system etc. It also clear from table 2 that total 96 open access repositories created by OSS are accessible in India on public domain. Out of 96 repositories, 67 are created by using Dspace, 26 created by using E-print and 3 repositories created by using Greenstone.

REFERENCES

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Mr Subhash Khode is presently working as Chief Librarian in Mahakal Institute of Technology, Ujjain. He has more than 18 years experience in library administration. He has worked at the Prestige Institute of Management and Research, Indore during 1996-2004. He is the recipient of Best Librarian Award by Indore Division Library Association in 2001. He has contributed 21 research papers in various national journals. He has completed his MLIS, PGDCA, and MPhil. He has submitted PhD thesis on ‘Open Source Software in Libraries and Research Institutions of India: A Study’ to Madhya Pradesh Bhoj University, Bhopal. His areas of interests include: Open source software, open access, and e-resources.

Dr Sunil Singh Chandel is currently working as a Senior Documentation Officer at M.P. Institute of Social Science Research, Ujjain (India) since August 2008. Earlier, he was Documentation Officer–Cum-Associate Fellow at MPISSR, Ujjain. He obtained his Masters in Mathematics, Economics and Library & Information Science. His Doctorate is in Library & Information Science from Vikram University, Ujjain. He has authored 4 books and more than 30 research papers on multidisciplinary subjects in national and international journals.
<table>
<thead>
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<th>Name of organisation</th>
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<td>Aryabhatta Research Institute of Observational Sciences, Nainital</td>
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<td>Central Building Research Institute, Roorkee</td>
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<td>Indian Institute of Horticultural Research, Bengaluru</td>
<td><a href="http://www.erepo.iihr.ernet.in/">http://www.erepo.iihr.ernet.in/</a></td>
<td>Dspace</td>
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<tr>
<td>Indian Institute of Management, Kozhikode</td>
<td><a href="http://dspace.iimk.ac.in">http://dspace.iimk.ac.in</a></td>
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<td>Indian Institute of Management, Kozhikode</td>
<td><a href="http://www.iimk.ac.in/gsdl/cgi-bin/library">http://www.iimk.ac.in/gsdl/cgi-bin/library</a></td>
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<td>Indian Institute of Science, Bangalore</td>
<td><a href="http://etd.ncsi.iisc.ernet.in/">http://etd.ncsi.iisc.ernet.in/</a></td>
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<td>Indian Institute of Science, Bangalore</td>
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<td>Indian Institute of Technology, Roorkee</td>
<td><a href="http://bhagirathi.iitr.ac.in/dspace/">http://bhagirathi.iitr.ac.in/dspace/</a></td>
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<td>Indian Institute of Technology, Bombay</td>
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<td>Indian Institute of Technology, Kharagpur</td>
<td><a href="http://anwesan.ittkgp.ernet.in:8080/jspui/">http://anwesan.ittkgp.ernet.in:8080/jspui/</a></td>
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<td>Indian Institute of Technology, New Delhi</td>
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<td>Indian Institute of Technology, New Delhi</td>
<td><a href="http://eprint.iitd.ac.in/seed/">http://eprint.iitd.ac.in/seed/</a></td>
<td>Dspace</td>
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<td>Indian Statistical Institute, Kolkata</td>
<td><a href="http://library.isical.ac.in/seed/">http://library.isical.ac.in/seed/</a></td>
<td>Dspace</td>
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<td>Indira Gandhi Institute of Development Research, Mumbai</td>
<td><a href="http://oii.igidr.ac.in:8080/jspui/">http://oii.igidr.ac.in:8080/jspui/</a></td>
<td>Dspace</td>
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<tr>
<td>Indira Gandhi National Open University, New Delhi</td>
<td><a href="http://www.egyankosh.ac.in/">http://www.egyankosh.ac.in/</a></td>
<td>Dspace</td>
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<tr>
<td>Indraprastha Institute of Information Technology</td>
<td><a href="https://repository.iitd.edu.in/jspui/">https://repository.iitd.edu.in/jspui/</a></td>
<td>Dspace</td>
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<tr>
<td>INFLIBNET's Institutional Repository</td>
<td><a href="http://ir.inflibnet.ac.in/">http://ir.inflibnet.ac.in/</a></td>
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<tr>
<td>Institute of Mathematical Sciences, Chennai</td>
<td><a href="http://www.imsc.res.in/xmlui">http://www.imsc.res.in/xmlui</a></td>
<td>Dspace</td>
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<td>Institute of Minerals and Materials Technology, Bhubaneswar</td>
<td><a href="http://E-prints.immt.res.in/">http://E-prints.immt.res.in/</a></td>
<td>E-print</td>
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<tr>
<td>International Crops Research Institute for the Semi-Arid-Tropics (ICRISAT)</td>
<td><a href="http://oar.icrisat.org/">http://oar.icrisat.org/</a></td>
<td>E-print</td>
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<tr>
<td>Inter-University Centre for Astronomy and Astrophysics, Pune</td>
<td><a href="http://www.iucaa.ernet.in:8080/jspui/">http://www.iucaa.ernet.in:8080/jspui/</a></td>
<td>Dspace</td>
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<tr>
<td>Jadavpur University, Kolkata</td>
<td><a href="http://dspace.jdvu.ac.in/">http://dspace.jdvu.ac.in/</a></td>
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<td>Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore</td>
<td><a href="http://lib.jncasr.ac.in:6060/jspui/">http://lib.jncasr.ac.in:6060/jspui/</a></td>
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<td>KLE University, Belgaum</td>
<td><a href="http://182.48.228.18:8080/jspui/">http://182.48.228.18:8080/jspui/</a></td>
<td>Dspace</td>
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<tr>
<td>LDL: Librarian's Digital Library (DRTC)</td>
<td><a href="http://drtc.isibang.ac.in/xmlui/">http://drtc.isibang.ac.in/xmlui/</a></td>
<td>Dspace</td>
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<tr>
<td>Maharaja Sayajirao University of Baroda</td>
<td><a href="http://14.139.121.106:8080/jspui/">http://14.139.121.106:8080/jspui/</a></td>
<td>Dspace</td>
</tr>
<tr>
<td>Manipal University</td>
<td><a href="http://E-prints.manipal.edu/">http://E-prints.manipal.edu/</a></td>
<td>E-print</td>
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<tr>
<td>National Aerospace Laboratories, Bangalore</td>
<td><a href="http://nal-ir.nal.res.in/">http://nal-ir.nal.res.in/</a></td>
<td>E-print</td>
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<tr>
<td>National Center for Catalysis Research, IIT Madras</td>
<td><a href="http://catalysis.E-prints.iitm.ac.in/">http://catalysis.E-prints.iitm.ac.in/</a></td>
<td>E-print</td>
</tr>
<tr>
<td>National Centre for Antarctic and Ocean Research (NCAOR), Goa</td>
<td><a href="http://dspace.ncaor.org:8080/dspace/index.jsp">http://dspace.ncaor.org:8080/dspace/index.jsp</a></td>
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<td>National Centre for Radio Astrophysics, Pune</td>
<td><a href="http://nccalib1.ncra.tifr.res.in:8080/jspui/">http://nccalib1.ncra.tifr.res.in:8080/jspui/</a></td>
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<tr>
<td>National Chemical Laboratory, Pune</td>
<td><a href="http://ncl.csircentral.net/">http://ncl.csircentral.net/</a></td>
<td>E-print</td>
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<td>National Informatics Centre (Bibliographic Informatics Division)</td>
<td><a href="http://openmed.nic.in/">http://openmed.nic.in/</a></td>
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<td>National Institute of Oceanography (NIO), Goa</td>
<td><a href="http://drs.nio.org/drs/index.jsp">http://drs.nio.org/drs/index.jsp</a></td>
<td>Dspace</td>
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<td>National Institute of Science Communication and Information Services, New Delhi</td>
<td><a href="http://nopr.niscair.res.in/">http://nopr.niscair.res.in/</a></td>
<td>Dspace</td>
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<td>National Institute of Science Communication and Information Services, New Delhi</td>
<td><a href="http://nisl.niscair.res.in/">http://nisl.niscair.res.in/</a></td>
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<td>National Institute of Technology Rourkela</td>
<td><a href="http://ethesis.nitrkl.ac.in/">http://ethesis.nitrkl.ac.in/</a></td>
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<td>National Institute of Technology, Rourkela (NITR)</td>
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<td>Dspace</td>
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<td>National Metallurgical Laboratory, Jamshedpur</td>
<td><a href="http://E-prints.nmlindia.org/">http://E-prints.nmlindia.org/</a></td>
<td>E-print</td>
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<td>National Tuberculosis Institute (NTI), Bangalore</td>
<td><a href="http://tbresearch.ntiindia.org.in/">http://tbresearch.ntiindia.org.in/</a></td>
<td>E-print</td>
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<td>North-Eastern Hill University, Shillong</td>
<td><a href="http://dspace.nehu.ac.in/">http://dspace.nehu.ac.in/</a></td>
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<tr>
<td>O P Jindal Global University, Sonipat</td>
<td><a href="http://dspace.jgu.edu.in:8080/dspace/">http://dspace.jgu.edu.in:8080/dspace/</a></td>
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<td>Osmania University, Hyderabad</td>
<td><a href="http://oudl.osmania.ac.in/">http://oudl.osmania.ac.in/</a></td>
<td>Dspace</td>
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<td>Pandit Deendayal Petroleum Univeristy, Gandhinagar</td>
<td><a href="http://library.pdpu.ac.in:8080/xmlui/">http://library.pdpu.ac.in:8080/xmlui/</a></td>
<td>Dspace</td>
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<td>Parliament of India, Official Debates of Rajya Sabha</td>
<td><a href="http://rsdebate.nic.in/">http://rsdebate.nic.in/</a></td>
<td>Dspace</td>
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<tr>
<td>Physical Research Laboratory, Ahmedabad</td>
<td><a href="http://www.prl.res.in/~library/">http://www.prl.res.in/~library/</a></td>
<td>Greenstone</td>
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<td>Pondicherry University</td>
<td><a href="http://dspace.pondiuni.edu.in/jspui/">http://dspace.pondiuni.edu.in/jspui/</a></td>
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<td>Rajiv Gandhi University of Health Sciences, Bangalore</td>
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<td>Raman Research Institute, Bangalore</td>
<td><a href="http://dspace.rri.res.in/">http://dspace.rri.res.in/</a></td>
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<td>S.D.M College of Engineering &amp; Technology, Dharwad</td>
<td><a href="http://210.212.198.149:8080/jspui/">http://210.212.198.149:8080/jspui/</a></td>
<td>Dspace</td>
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<td>Saurashtra University, Rajkot</td>
<td><a href="http://theses.saurashtrauniversity.edu/">http://theses.saurashtrauniversity.edu/</a></td>
<td>E-print</td>
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<td>Shree Narayana Gurukulm College of Engineering, Kadayiruppu</td>
<td><a href="http://dspace.sngce.ac.in/">http://dspace.sngce.ac.in/</a></td>
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<tr>
<td>S. No</td>
<td>Name of organisation</td>
<td>Web-OPAC</td>
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<tr>
<td>1.</td>
<td>AJ Institute of Management, Mangalore</td>
<td><a href="http://aj-koha.osslabs.biz/">http://aj-koha.osslabs.biz/</a></td>
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<td>2.</td>
<td>All India Institute of Speech and Hearing, Mysore</td>
<td><a href="http://aiishmysore.in/opencatalogue/index.php(">http://aiishmysore.in/opencatalogue/index.php(</a> E-book collection)</td>
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<td>3.</td>
<td>Alliance University, Bangalore</td>
<td><a href="http://library.alliance.edu.in/">http://library.alliance.edu.in/</a></td>
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<td>5.</td>
<td>Amity International Schools, Delhi</td>
<td><a href="http://amity-libcat.osslabs.biz/">http://amity-libcat.osslabs.biz/</a></td>
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<td>6.</td>
<td>Amity University Library, Noida</td>
<td><a href="http://library.amizone.net/">http://library.amizone.net/</a> or <a href="http://202.12.103.54/">http://202.12.103.54/</a></td>
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<td>7.</td>
<td>Amity University, Gurgaon (Manesar)</td>
<td><a href="http://27.124.12.187/">http://27.124.12.187/</a></td>
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<td>8.</td>
<td>Amity University, Gwalior</td>
<td><a href="http://182.19.64.94/">http://182.19.64.94/</a></td>
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<td>9.</td>
<td>Anveshi Research Centre for Women’s Studies, Hyderabad</td>
<td><a href="http://www.anveshi.org.in/library/catalogue/">http://www.anveshi.org.in/library/catalogue/</a></td>
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<td>10.</td>
<td>Archives and Access, Bangalore</td>
<td><a href="http://publicarchives.org/catalogue-search.html">http://publicarchives.org/catalogue-search.html</a></td>
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<td>12.</td>
<td>Azim Premji University, Bangalore</td>
<td><a href="http://library.azimpremjiuniversity.edu.in/cgi-bin/koha/opac-search.pl">http://library.azimpremjiuniversity.edu.in/cgi-bin/koha/opac-search.pl</a></td>
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<td>16.</td>
<td>Bose Institute, Kolkata</td>
<td><a href="http://resources.boseinst.ernet.in:8007/cgi-bin/koha/opac-shelves.pl?display=privateshelves">http://resources.boseinst.ernet.in:8007/cgi-bin/koha/opac-shelves.pl?display=privateshelves</a></td>
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<td>18.</td>
<td>C Abdul Hakeem College of Engineering and Technology, Melvisharam</td>
<td><a href="http://opac-ccl.cahcet.in/">http://opac-ccl.cahcet.in/</a></td>
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<td>19.</td>
<td>CCS Haryana Agricultural University, Hisar</td>
<td><a href="http://202.141.47.7/">http://202.141.47.7/</a></td>
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<td>20.</td>
<td>Central University of Kerala, Vidyanagar</td>
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<td>84.</td>
<td>Society for Participatory Research in Asia (PRIA’s Digital Library)</td>
<td><a href="http://digitallibrary.pria.in/cgi-bin/library?a=p&amp;p=home&amp;l=en&amp;w=utf-8">http://digitallibrary.pria.in/cgi-bin/library?a=p&amp;p=home&amp;l=en&amp;w=utf-8</a></td>
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<td>85.</td>
<td>Sree Chitra Tirunal Institute for Medical Sciences &amp; Technology, Trivandrum</td>
<td><a href="http://dspace.scitms.ac.in/jspui/">http://dspace.scitms.ac.in/jspui/</a></td>
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<td>86.</td>
<td>SRM University, Chennai</td>
<td><a href="http://digitallibrary.srmuniv.ac.in/dspace/">http://digitallibrary.srmuniv.ac.in/dspace/</a></td>
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<td>88.</td>
<td>S-VYASA University (Swami Vivekananda Yoga Anusandhana Samsthana), Bangalore</td>
<td><a href="http://www.libraryofyoga.com/">http://www.libraryofyoga.com/</a></td>
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<td>89.</td>
<td>Thapar University, Patiala</td>
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<td>90.</td>
<td>University of Delhi</td>
<td><a href="http://dspace.dce.edu/">http://dspace.dce.edu/</a></td>
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<tr>
<td>91.</td>
<td>University of Kashmir, Srinagar</td>
<td><a href="http://dspace.vidyanidhi.org.in:8080/dspace/">http://dspace.vidyanidhi.org.in:8080/dspace/</a></td>
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<td>92.</td>
<td>University of Mysore</td>
<td><a href="http://E-prints.uni-mysore.ac.in/">http://E-prints.uni-mysore.ac.in/</a></td>
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<td>93.</td>
<td>Vidya Prasarak Mandal, Thane</td>
<td><a href="http://dspace.vpmthane.org:8080/jspui/index.jsp">http://dspace.vpmthane.org:8080/jspui/index.jsp</a></td>
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<td>94.</td>
<td>West Bengal Public Library Network</td>
<td><a href="http://dspace.wbpublibnet.gov.in:8080/jspui/">http://dspace.wbpublibnet.gov.in:8080/jspui/</a></td>
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<td>95.</td>
<td>WHO Institutional Repository (India)</td>
<td><a href="http://whoindia.healthrepository.org/">http://whoindia.healthrepository.org/</a></td>
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</tbody>
</table>

**Appendix – II**

List of organisations using open source library management software with their online OPAC
<table>
<thead>
<tr>
<th>No.</th>
<th>Library Name</th>
<th>URL</th>
<th>Catalog Management System</th>
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<tr>
<td>22.</td>
<td>Chitkara Central Library, Patiala</td>
<td><a href="http://library.chitkara.edu.in/">http://library.chitkara.edu.in/</a></td>
<td>Koha</td>
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<td>23.</td>
<td>Choe Khor Sum Ling (CKSL), Bangalore</td>
<td><a href="http://www.cksl.in/library.html">http://www.cksl.in/library.html</a></td>
<td>Koha</td>
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<tr>
<td>24.</td>
<td>Christ University Library, Bangalore</td>
<td><a href="http://library.christuniversity.in/">http://library.christuniversity.in/</a></td>
<td>Koha</td>
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<tr>
<td>25.</td>
<td>Cochin University of Science and Technology, Cochin</td>
<td><a href="http://opac.cusat.ac.in/">http://opac.cusat.ac.in/</a></td>
<td>Koha</td>
</tr>
<tr>
<td>27.</td>
<td>DC School of Management and Technology, Vagamon</td>
<td><a href="http://opac.dcschool.net/cgi-bin/koha-opac-main.pl">http://opac.dcschool.net/cgi-bin/koha-opac-main.pl</a></td>
<td>Koha</td>
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<tr>
<td>29.</td>
<td>Dombivali Public Library, Mumbai</td>
<td><a href="http://catalog.dombivali-granthalaya.org/">http://catalog.dombivali-granthalaya.org/</a></td>
<td>Koha</td>
</tr>
<tr>
<td>30.</td>
<td>Don Bosco Institute of Technology, Mumbai</td>
<td><a href="http://opac.dbt.in/">http://opac.dbt.in/</a></td>
<td>Koha</td>
</tr>
<tr>
<td>32.</td>
<td>Fountainhead School, Surat</td>
<td><a href="http://koha.fountainheadschools.org/">http://koha.fountainheadschools.org/</a></td>
<td>Koha</td>
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<td>33.</td>
<td>Goa University</td>
<td><a href="http://libcat.unigoa.ac.in/">http://libcat.unigoa.ac.in/</a></td>
<td>Koha</td>
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<td>34.</td>
<td>Gogte Institute of Technology, Belgaum</td>
<td><a href="http://library.git.edu/">http://library.git.edu/</a></td>
<td>Koha</td>
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<td>35.</td>
<td>Human Rights Law Network, Delhi</td>
<td><a href="http://koha.hrln.org/">http://koha.hrln.org/</a></td>
<td>Koha</td>
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<td>37.</td>
<td>Indian Agricultural Research Institute, New Delhi</td>
<td><a href="http://14.139.56.71/">http://14.139.56.71/</a></td>
<td>Koha</td>
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<td>38.</td>
<td>Indian Institute of Management, Ahmedabad</td>
<td><a href="http://vsl.opac.imahd.ernet.in/">http://vsl.opac.imahd.ernet.in/</a></td>
<td>Koha</td>
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<td>39.</td>
<td>Indian Institute of Science Education and Research, Mohali</td>
<td><a href="http://115.119.172.69/">http://115.119.172.69/</a></td>
<td>Koha</td>
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<td>Indian Institute of Technology, Bombay</td>
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<td>42.</td>
<td>Indian Institute Technology, Jodhpur</td>
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<td>NewGenLib</td>
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<td>43.</td>
<td>Indian Social Institute, Delhi</td>
<td><a href="http://isi-koha.osslabs.biz/">http://isi-koha.osslabs.biz/</a></td>
<td>Koha</td>
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<tr>
<td>44.</td>
<td>Indian Sylvestrine Benedictine Libraries, India</td>
<td><a href="http://www.isbib.comlibrary.org/">http://www.isbib.comlibrary.org/</a></td>
<td>Koha</td>
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<tr>
<td>45.</td>
<td>Indira Gandhi Delhi Technical University for Women, New Delhi</td>
<td><a href="http://202.159.218.126:8080/newgenlibctxt/">http://202.159.218.126:8080/newgenlibctxt/</a></td>
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<td>46.</td>
<td>Indira Gandhi Krishi Vishwavidyalaya, Raipur</td>
<td><a href="http://igkkohaopac.firstray.in/">http://igkkohaopac.firstray.in/</a></td>
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<td>47.</td>
<td>IndiraPrastha Institute of Information Technology, New Delhi</td>
<td><a href="http://library.iiitd.edu.in/">http://library.iiitd.edu.in/</a></td>
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<td>48.</td>
<td>Institute for Financial Management and Research, Chennai</td>
<td><a href="http://library.ifmr.ac.in/cgi-bin/koha/opac-user.pl">http://library.ifmr.ac.in/cgi-bin/koha/opac-user.pl</a></td>
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<td>50.</td>
<td>International Commission on Irrigation and Drainage (ICID), New Delhi</td>
<td><a href="http://www.icid.org/members_only/openbiblio/opac/index.php">http://www.icid.org/members_only/openbiblio/opac/index.php</a></td>
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<td>51.</td>
<td>Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore</td>
<td><a href="http://lib.jncasr.ac.in:8081/">http://lib.jncasr.ac.in:8081/</a></td>
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<td>52.</td>
<td>Joint Library Committee, Bangalore</td>
<td><a href="http://jlc-koha.osslabs.biz/">http://jlc-koha.osslabs.biz/</a></td>
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<td>55.</td>
<td>Kodai Kannal International School, Kodai Kannal</td>
<td><a href="http://koha.kis.in/">http://koha.kis.in/</a></td>
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<td>56.</td>
<td>Madras Club, Chennai</td>
<td><a href="http://library.madrasclub.org/">http://library.madrasclub.org/</a></td>
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<td>57.</td>
<td>Marwadi Education Foundation’s Group of Institutions, Rajkot</td>
<td><a href="http://119.160.199.88/">http://119.160.199.88/</a></td>
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<td>59.</td>
<td>MIG Cricket Club, Mumbai</td>
<td><a href="http://mig-koha.osslabs.biz/">http://mig-koha.osslabs.biz/</a></td>
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<td>60.</td>
<td>National Dairy Research Institute, Karnal</td>
<td><a href="http://library.ndri.res.in/">http://library.ndri.res.in/</a></td>
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<td>61.</td>
<td>National Film Archive of India, Pune</td>
<td><a href="http://nfai.library.in/">http://nfai.library.in/</a></td>
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<td>62.</td>
<td>National Institute of Abiotic Stress Management, Pune</td>
<td><a href="http://117.239.43.84:8000/">http://117.239.43.84:8000/</a></td>
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<td>64.</td>
<td>National Law Institute University, Gyan Mandir Library, Bhopal</td>
<td><a href="http://210.212.145.132/cgi-bin/koha/opac-shelves.pl">http://210.212.145.132/cgi-bin/koha/opac-shelves.pl</a></td>
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<td>66.</td>
<td>Nehru Centre Library, Mumbai</td>
<td><a href="http://nehrucen-koha.informindia.co.in/">http://nehrucen-koha.informindia.co.in/</a></td>
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<td>67.</td>
<td>North-Eastern Hill University, Shillong</td>
<td><a href="http://library.nehu.ac.in/">http://library.nehu.ac.in/</a></td>
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<td>68.</td>
<td>O. P. Jindal Global University Library, Sonipat, Haryana</td>
<td><a href="http://koha.jgu.edu.in/">http://koha.jgu.edu.in/</a></td>
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<td>69.</td>
<td>Osmania University Library, Hyderabad</td>
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<td>Pillai Group of Institutions, Mumbai</td>
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<td>71.</td>
<td>Power Grid Corporation of India Limited, Gurgaon</td>
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<td>Public Archives, India, Bangalore</td>
<td><a href="http://pubarch-koha.osslabs.biz/">http://pubarch-koha.osslabs.biz/</a></td>
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<td>Punjabrao Deshmukh Krishi Vidyapeeth, Akola</td>
<td><a href="http://pdkovac.firstray.in/">http://pdkovac.firstray.in/</a></td>
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<td>Rishiraj Institute of Technology, Indore</td>
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<td><a href="http://www.rmr.in:8000/">http://www.rmr.in:8000/</a></td>
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<td>76.</td>
<td>Sacred Heart College, Kochi</td>
<td><a href="http://shcollege.in/cgi-bin/koha/opac-user.pl">http://shcollege.in/cgi-bin/koha/opac-user.pl</a></td>
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<td>77.</td>
<td>Sadhanan Brahmo Samaj Library, Kolkata</td>
<td><a href="http://library.thesadhananbrahmosamaj.org/catalogue/opac/index.php">http://library.thesadhananbrahmosamaj.org/catalogue/opac/index.php</a></td>
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<td>78.</td>
<td>Sandip Institute of Technology and Research Center, Nashik</td>
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<td>79.</td>
<td>SDM Institute for Management Development, Mysore</td>
<td><a href="http://118.151.209.34:8080/newgenlibctx/Opac2_0.jsp">http://118.151.209.34:8080/newgenlibctx/Opac2_0.jsp</a></td>
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<td>Shiv Nadar University, Dadri</td>
<td><a href="http://210.212.85.104/">http://210.212.85.104/</a></td>
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<td>81.</td>
<td>Siddaganga Institute of Technology, Tumkur, Karnataka</td>
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<td>82.</td>
<td>South Asian University Library, New Delhi</td>
<td><a href="http://library.sau.ac.in/">http://library.sau.ac.in/</a></td>
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<td>83.</td>
<td>SRM University Delhi-NCR Campus Central Library, Ghaziabad</td>
<td><a href="http://117.239.12.74:8080/newgenlibctx/Home?Id=1">http://117.239.12.74:8080/newgenlibctx/Home?Id=1</a></td>
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<td>84.</td>
<td>SVYASA Yoga University (SARASWATI CENTRAL LIBRARY), Bengaluru</td>
<td><a href="http://catalog.libraryofyoga.com/">http://catalog.libraryofyoga.com/</a></td>
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<td>85.</td>
<td>Tailor Bird Children's Library, Bangalore</td>
<td><a href="http://library.thetailorbird.com/">http://library.thetailorbird.com/</a></td>
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<td>86.</td>
<td>Universal Training Solutions, Mumbai</td>
<td><a href="http://uts-koha.osslabs.biz/">http://uts-koha.osslabs.biz/</a></td>
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<td>87.</td>
<td>University of Agricultural Sciences, Bangalore</td>
<td><a href="http://uasb.agribindia.org/">http://uasb.agribindia.org/</a></td>
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<td>88.</td>
<td>University of Mysore, Mysore</td>
<td><a href="http://libcat.mysore-univ.org/">http://libcat.mysore-univ.org/</a></td>
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<td>89.</td>
<td>Urban Health Resource Centre (UHRC)</td>
<td><a href="http://uhrc.in/library/home/index.php">http://uhrc.in/library/home/index.php</a></td>
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<td>90.</td>
<td>West Bengal Pollution Control Board (WBPCB)</td>
<td><a href="http://library.wbpcb.gov.in/cgi-bin/koha/opac-main.pl">http://library.wbpcb.gov.in/cgi-bin/koha/opac-main.pl</a></td>
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<td>91.</td>
<td>West Bengal Universtiy of Technology</td>
<td><a href="http://opac.wbut.ac.in/cgi-bin/koha/opac-main.pl">http://opac.wbut.ac.in/cgi-bin/koha/opac-main.pl</a></td>
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