OPEN SOURCE INITIATIVES IN INDIAN LIBRARIES
CHAPTER- 4

Open Source Initiatives In Indian Libraries.

India is the forefront of developing world as well as in south Asian region both in terms of economic growth and scientific productivity. Research & development (R&D) institutions and higher learning institutions in India are engaged in advanced studies, leading to development of new applications, new techniques, new products and new technologies. The Library & Information Science profession in the country is leading in the application of Information & Communication Technology. With the support of UNESCO, the libraries in the country started using CDS/ISIS database management software. The response of the libraries increases with the availability of open source software for various activities of library, i.e from integrated library management to Digital libraries. The government of India has also taken initiatives in promoting the open source software through its Ministry, Department and Institute of National importance. IBM Corporation, in partnership with Indian Institute of Technology Bombay (IIT-B) and the Center for development of Advanced Computing (CDAC), has established the open source software Resource Center (OSSRC). OSSRC’s goals are to develop, adopt and disseminates solutions, education and content that use open standards in support of India’s economic development plans. Open source digital library software has revolutionized the Library & information management System. The development of various open source software enable the libraries & information center to develop Institutional Repositories, web content Management and automation of library house keeping jobs.

In this chapter, researcher attempts to study the open source initiatives by Libraries & Information centers in India. To study the application of OSS Software, websites of the Library & Information Centers, Registry of open access repositories and Directory of open Access repositories, websites of open source software and its user profile and various reports of government, institutes have been referred.

4.1 OPEN SOURCE INITIATIVES IN ASIA

The registry of open access repositories records the institutional repositories in the world. The registry is very comprehensive and gives the details about the
institutional repositories and provides sorting according to the software. In Asia, 267 institutional repositories have been developed using Open source digital library software.

Table No. 7

Open source Initiatives in Asia

<table>
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<tr>
<th>SR.NO</th>
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<th>NO.OF REPOSITORIES Using OSS</th>
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<td>7</td>
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<td>8</td>
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<td>Singapore</td>
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<td>ASIA</td>
<td>267</td>
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From the above table, it is seen that India tops the second position with fifty five institutional repositories sharing 20.60 percentage of the total I.R.in Asia.
4.2 Digital Library Softwares Initiatives

Open source digital library software revolutionized the open access movement. According to the Registry of open Access Repository ( ), the three software namely DSpace, GSDL, and Eprints were used for 1183 institutional repositories (59.80) out of 1978 in the world. In India, most of the institutions are using open source digital software. The total number of Institutional Repositories in India is 58, in which 48 institutional repositories are using open source digital library software.

According to the Ghosh S, B and Das Anupkumar (14), the development of Open Access literature mostly due to the availability of open source software and open source initiatives by the Library & Information centers. The open source initiatives in the national research institute are more than other state level institute, universities. The Indian institute used DSpace, GSDL and Eprints digital library open source software for development of institutional repositories. The institution like IIMK, Kozhikode supporting GSDL digital library for South Asia and the Mumbai based private company like Nuesoft OSS labs provides support for DSpace open source digital Library Software Indian Institute of
Science, Bangalore, NISCAIR and DELNET also conducts various workshops on DSpace. The open source initiatives in Indian Libraries & Information centers are increasing day by day. V.V. Giri Institute of Labour studies has developed a very comprehensive digital archive using GSDL Open source Software on Labour movement in the country. The archive has collection of more than one lacs pages with multimedia files. The philosophy behind development of archive is, "Archive is to society what memory is to human beings". The initiative of the Library & Information centers in India in using open source digital library software is listed in the following table.

### Table No. 8

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<tr>
<th>SR. NO</th>
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<th>Records</th>
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Table No. 9

Open Source Digital Library Software

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Graph no.2
Open Source Digital Library Software

Open Source Digital Library Software.
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<td>+</td>
<td>DSpace</td>
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<tr>
<td>5</td>
<td>CMFRI Digital Repository</td>
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<td>DSpace at Vidyanidhi</td>
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<td>7</td>
<td>Indian Institute of Astrophysics Repository</td>
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<td>8</td>
<td>DRS at National Institute Of Oceanography</td>
<td>4966</td>
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<tr>
<td>9</td>
<td>Digital repository of Cochin University of Science &amp; Technology</td>
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<td>12</td>
<td>ICRISAT Open Access Repository</td>
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<td>13</td>
<td>OpenMED@NIC</td>
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<tr>
<td>16</td>
<td>EPrints@IITD</td>
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<td>17</td>
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<td>18</td>
<td>National Center for Catalysis Research</td>
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</tr>
<tr>
<td>20</td>
<td>Dspace@NITR</td>
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<td>+</td>
<td>+</td>
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<td></td>
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</tr>
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<td>21</td>
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</tr>
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<td>23</td>
<td>Mahatma Gandhi University Theses Online</td>
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<td>+</td>
<td></td>
<td>Nitya</td>
</tr>
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<td>INFLIBNET: Shodhganga</td>
<td>1111</td>
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<td></td>
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<td>EPrints</td>
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<td>27</td>
<td>Delhi Technological University, Delhi.</td>
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<td>+</td>
<td>+</td>
<td>Eprints</td>
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<td></td>
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<tr>
<td>28</td>
<td>Madras Diabetes Research Foundation</td>
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<td>+</td>
<td>+</td>
<td>Eprints</td>
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<td></td>
</tr>
<tr>
<td>29</td>
<td>Indian Institute of Management Kozhikode</td>
<td>500</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
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<td></td>
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<tr>
<td>30</td>
<td>Indian Institute of Spices Research</td>
<td>461</td>
<td>+</td>
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<tr>
<td>31</td>
<td>DSpace at NCRA</td>
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<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
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<td>32</td>
<td>DSpace at National Chemical Laboratory</td>
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<td>33</td>
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<td>34</td>
<td>Librarians' Digital Library</td>
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<td>+</td>
<td>DSpace</td>
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</tr>
<tr>
<td>35</td>
<td>Bangalore Management Academy (BMA)</td>
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<td>+</td>
<td></td>
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<td>DSpace</td>
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<tr>
<td>36</td>
<td>Management Development Institute</td>
<td>356</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>Indian Institute of Management, Kozhikode</td>
<td>346</td>
<td>+</td>
<td>+</td>
<td></td>
<td>DSpace</td>
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<tr>
<td>38</td>
<td>Vidya Prasarak Mandal, Thane</td>
<td>341</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
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</tr>
<tr>
<td>39</td>
<td>Central Drug Research Institute</td>
<td>329</td>
<td>+</td>
<td></td>
<td></td>
<td>DSpace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Kaultiya Digital Repository at IGIDR</td>
<td>204</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
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<td></td>
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<tr>
<td>41</td>
<td>Eprints@IARI</td>
<td>195</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>EPrints</td>
<td></td>
<td></td>
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<tr>
<td>42</td>
<td>Indian Statistical Institute, Bangalore</td>
<td>191</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>DSpace at IBS Ahmedabad</td>
<td>171</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>DU Eprint Archive</td>
<td>170</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>EPrints</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Knowledge Repository of Indian Institute of Horticultural Research</td>
<td>160</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>DSpace @ GGSIPU</td>
<td>129</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Central Institute of Medicinal and Aromatic Plants,</td>
<td>121</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Ashoka Trust for Research in Ecology and the Environment,</td>
<td>114</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>DSpace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>DSpace@PDPU</td>
<td>64</td>
<td>+</td>
<td></td>
<td></td>
<td>DSpace</td>
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<td></td>
</tr>
<tr>
<td>50</td>
<td>IMSc Eprint Archive</td>
<td>41</td>
<td>+</td>
<td></td>
<td></td>
<td>EPrints</td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Institute of Minerals and Materials Technology.</td>
<td>33</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>Eprints</td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Eprints@SBT MKU</td>
<td>21</td>
<td>+</td>
<td></td>
<td></td>
<td>EPrints</td>
<td></td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>ePrints@NII</td>
<td>10</td>
<td>+</td>
<td></td>
<td></td>
<td>EPrints</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
In the present study, fifty three institutional repositories developed by using open source digital Library software are studied. The Archives of Indian Labour, developed by using GSDL open source software is the largest digital repository in India, followed by eGyankosh, an institutional repository of IGNOU developed by using DSpace software, Open Access repository of Indian Institute of Science, Bangalore developed by using DSpace software, NISCAIR online periodical repository developed in DSpace, Digital repository of Central Marine Fisheries Research Institute, Cochin used Eprints software, and DSpace @ Vidyanidhi, Mysore From the collection of the digital repositories, it is observed that most of the repository given preference to the research publication of the institute. The repository concentrated on unpublished work, conference proceedings, thesis, course material, and journal articles and other includes multimedia file, interviews, etc.

Table No.1
Types of collection in Digital Repository.

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Collection In D.L/I.R</th>
<th>D.L/I.R</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Journal Article.</td>
<td>18</td>
<td>32.72</td>
</tr>
<tr>
<td>2</td>
<td>Conference Proceedings.</td>
<td>28</td>
<td>50.90</td>
</tr>
<tr>
<td>3</td>
<td>Unpublished</td>
<td>24</td>
<td>43.64</td>
</tr>
<tr>
<td>4</td>
<td>Thesis</td>
<td>24</td>
<td>43.64</td>
</tr>
<tr>
<td>5</td>
<td>Other</td>
<td>27</td>
<td>49.09</td>
</tr>
</tbody>
</table>

From the above table, it is seen that digital repositories preferred to organize the research paper published in conference proceedings, Journals and thesis by the members of their institutions. It is seen that research output of the institution is made accessible to world community and strengthen the scholarly communication through the development of Institutional repository using open source software.
### Table No. 12

**Open source initiatives - Geographical analysis**

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>City</th>
<th>No. of Library</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Delhi</td>
<td>16</td>
<td>30.18</td>
</tr>
<tr>
<td>2</td>
<td>Bangalore</td>
<td>9</td>
<td>16.98</td>
</tr>
<tr>
<td>3</td>
<td>Mumbai</td>
<td>4</td>
<td>7.55</td>
</tr>
<tr>
<td>4</td>
<td>Chennai</td>
<td>3</td>
<td>5.66</td>
</tr>
<tr>
<td>5</td>
<td>Ahemadabad</td>
<td>4</td>
<td>7.55</td>
</tr>
<tr>
<td>6</td>
<td>Cochin</td>
<td>3</td>
<td>5.66</td>
</tr>
<tr>
<td>7</td>
<td>Rourkela</td>
<td>2</td>
<td>3.77</td>
</tr>
<tr>
<td>8</td>
<td>Kohizkode</td>
<td>2</td>
<td>3.77</td>
</tr>
<tr>
<td>9</td>
<td>Lucknow</td>
<td>2</td>
<td>3.77</td>
</tr>
<tr>
<td>10</td>
<td>Panaji</td>
<td>1</td>
<td>1.87</td>
</tr>
<tr>
<td>11</td>
<td>Jamshedpur</td>
<td>1</td>
<td>1.87</td>
</tr>
<tr>
<td>12</td>
<td>Bhuvaneshwar</td>
<td>1</td>
<td>1.87</td>
</tr>
<tr>
<td>13</td>
<td>Pune</td>
<td>1</td>
<td>1.87</td>
</tr>
<tr>
<td>14</td>
<td>Mysore</td>
<td>1</td>
<td>1.87</td>
</tr>
<tr>
<td>15</td>
<td>Madurai</td>
<td>1</td>
<td>1.87</td>
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<tr>
<td>16</td>
<td>Calicut</td>
<td>1</td>
<td>1.87</td>
</tr>
<tr>
<td>17</td>
<td>Hyderabad</td>
<td>1</td>
<td>1.87</td>
</tr>
<tr>
<td>18</td>
<td>Total</td>
<td>53</td>
<td>100</td>
</tr>
</tbody>
</table>

### Graph No. 3

**Geographical Analysis of OSS initiative.**

**Geographical analysis of OSS initiatives**

![Graph showing geographical analysis of OSS initiatives](image)
From the above table, it is seen that the initiatives in Indian cities toward adoption of open source software is more in metropolitan cities due to Research center of National importance. The capital of India, New Delhi is the leading city in adoption of open source initiatives (30.18), followed by Bangalore (16.98), Mumbai and Ahmedabad (7.55). The initiative in open source digital library software for the development of digital repositories is very meager as compared to very large network and system of higher education in the country. The initiatives remain limited with research institute of national importance. There is need to aware the people and training of open source digital library software in universities and inclusion of open source digital library software in the curriculum. To overcome the digital divide in the country and also the various authorities in the country, i.e. MHRD etc made it compulsory to display the institutional information on website, open source digital library software are useful tools for development of institutional repositories.

Table No. 13

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Type of Institution</th>
<th>No. of institution</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Research Institute</td>
<td>34</td>
<td>64.15</td>
</tr>
<tr>
<td>2</td>
<td>Academic Institute</td>
<td>16</td>
<td>30.19</td>
</tr>
<tr>
<td>3</td>
<td>Others (NGO)</td>
<td>03</td>
<td>5.66</td>
</tr>
<tr>
<td>4</td>
<td>Total</td>
<td>53</td>
<td>100</td>
</tr>
</tbody>
</table>

Institutional initiatives in open source software shows that the research institute in the country is leading in using digital library open source software for development of institutional repository. The percentage of Research Institute is 64.15, followed by the academic institute (30.19). The number of Universities and colleges in the country is more but the number in open source initiatives is very less.
Open Source digital library software- Institutional analysis.

![Open source initiative_institutional Analysis](image)

### Table No.14
Comparative Study of DSpace, GSDL and Eprints.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>DSpace</th>
<th>GSDL</th>
<th>E-Prints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developer</td>
<td>Massachusetts Institute of Technology &amp; HP</td>
<td>University of Walkato</td>
<td>University of Southampton</td>
</tr>
<tr>
<td>Version/Year</td>
<td>DSpace v.1.7.0 2010</td>
<td>V2.83 2010</td>
<td>V3.1.3 2009</td>
</tr>
<tr>
<td>O.S</td>
<td>LINUX/windows</td>
<td>Linux/window</td>
<td>Linux</td>
</tr>
<tr>
<td>Web Server</td>
<td>Apache/IIS</td>
<td>Apache 1.3</td>
<td>Apache 1.3</td>
</tr>
<tr>
<td>Language</td>
<td>Java 1.3/JSP</td>
<td>PERL</td>
<td>Mod-perl1.3</td>
</tr>
<tr>
<td>Database</td>
<td>Postgres SQL</td>
<td>Its own</td>
<td>MySQL</td>
</tr>
<tr>
<td>Dublin Core</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>OAI-PMH</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Supported file</td>
<td>MS-WORD, PDF, HTML, GIF</td>
<td>MS-WORD, PDF, HTML, GIF</td>
<td>MS-WORD, PDF, HTML</td>
</tr>
<tr>
<td>Licence</td>
<td>BSD</td>
<td>GNU GPL</td>
<td>GNU GPL</td>
</tr>
</tbody>
</table>
4.2.1 INFLIBNET INSTITUTIONAL REPOSITORY

INFLIBNET, an Inter University Center of UGC developed Institutional Repository using DSpace software. It has collection of three communities’ i.e INFLIBNET in press and media, Annual Reports, INFLIBNET’s convention proceedings. It also developed the collection of research project completed by college and University teachers with the assistance of UGC under minor & major research grants. The Institutional Repositories has collection of 640 documents, which is available in PDF format. It contains post prints, preprints, news clippings, conference articles, training materials and other scholarly publications The I.R. can be searched by communities & collection, issue data, author, title, subject. The Ph.D. regulation 2009 of UGC made a mandatory provision to publish the M.Phil /PhD thesis on INFLIBNET’s digital library. The Institutional Repository of INFLIBNET becomes a center for scholarly communication.

DSpace@INFLIBNET

URL: http://ir.inflibnet.ac.in/
Organization: Information and Library Network Center (INFLIBNET)
Address: Ahmedabad
Description: This institutional repository contains proceedings from international and national Conferences of CALIBER and PLANNER)
Type: Institutional - Operational
Size: 1144 items (2010-10-07)
OAI-PMH: http://dspace.inflibnet.ac.in/dspace-oai/request
Software: DSpace
Subjects: Multidisciplinary
Content: Conferences; Learning Objects; Special
Languages: English; Hindi
Contacts: Yatrik Patel (yatrik@inflibnet.ac.in).
INSTITUTIONAL REPOSITORY OF INFLIBNET.
✓ INFLIBNET in Press and Media
✓ News Clipping about INFLIBNET
✓ INFLIBNET's Convention Proceedings
✓ CALIBER 2000: Chennai
✓ CALIBER 2001: Pune
✓ CALIBER 2002: Jaipur
✓ CALIBER 2003: Ahmedabad
✓ CALIBER 2004: New Delhi
✓ CALIBER 2005: Kochi
✓ CALIBER 2006: Gulbarga
✓ CALIBER 2007: Chandigarh
✓ CALIBER 2008
✓ CALIBER 2009
✓ Open Access to Textual and Multimedia Content: Bridging the Digital Divide [2009]
✓ PLANNER 2003: Shillong
✓ PLANNER 2004: Imphal
✓ PLANNER 2005
✓ PLANNER 2006
✓ PLANNER 2007
✓ PLANNER 2008
✓ PLANNER 2010
✓ INFLIBNET's Publications
✓ INFLIBNET Annual Reports
✓ INFLIBNET NewsLetter
✓ IRTPLA Course Material
4.2.2 Shodhganga of INFLIBNET

The Shodhganga is a digital repository for research in Indian Universities. It is set-up by using DSpace, open source digital repository software developed by MIT (Massachusetts Institute of Technology) in partnership between Hewlett-Packard (HP). The DSpace uses internationally recognized protocols and interoperability standards. The Shodhganga@INFLIBNET provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. The repository has the ability to capture, index, store, disseminate and preserve ETDs submitted by the researchers. DSpace supports "Open Archives Initiative's Protocol for Metadata Harvesting" (OAI-PMH) and uses a qualified version of the Dublin Core schema. The INFLIBNET Centre promotes setting-up of institutional and ETD repositories in member universities using OAI-PMH complaint software. A number of member universities have already set-up their institutional and ETD repositories using either DSpace or other OAI-PMH compliant Institutional Repository software leading to a scenario wherein it would be possible for universities having sufficient network and computing infrastructure to maintain their own ETD repositories wherein their research scholars could deposit e-versions of their theses and dissertations, and INFLIBNET Centre, besides maintaining the Central ETD Repository (Shodhganga) would also deploy a central server to harvest the metadata from all such ETD repositories distributed in universities with an aim to provided unified access to theses and dissertations through its harvesting server. Shodhganga Repository at INFLIBNET replicates academic structure of each university in terms of Departments/ Centers and School each university has. This structure facilitates research scholars from universities to deposit their theses in the respective Department/ Centre.
4.2.3 Digital Library of Central Institute of Medicinal and Aromatic Plants (CIMAP)

Central Institute of Medicinal & Aromatic Plants is a national research center at Lucknow works under CSIR aims at innovation and empowerment in science and business of medicinal and aromatic plants toward enabling India as the ultimate in green technologies and herbals for life par excellence. The institute developed ‘Knowledge Repository’ using DSpace software having three main communities i.e. Agriculture, biology and Chemistry. The institute has 121 records in its Knowledge repository. The URL of the digital library of CIMAP is http://www.kr.cimap.res.in
4.2.4 Digital Library of Bangalore Management Academy

Bangalore Management Academy (BMA) is a progressive and dynamic institution providing quality and innovative education in the IT capital of India. In collaboration with top universities from the world over and India, BMA has introduced fresh educational trends in the country to meet the nation’s educational and training demands. BMA developed Knowledge center using DSpace digital Library software having two communities namely BMA Newsletter and Question papers. The URL of digital library of Bangalore Management Academy is: http://www.bmaindia.com
4.2.5 Digital Library of Cochin University of Science and Technology

Dyuthi is a Digital Repository of Cochin University of Science and Technology. Dyuthi is a digital service that collects, preserves, and distributes digital material. Repositories are important tools for preserving an organization's legacy; they facilitate digital preservation and scholarly communication.

This repository is funded by Department of Scientific & Industrial Research (DSIR), Under Technology Information Facilitation Programme (TIFP), Ministry of Science & Technology, Government of India.

Dyuthi archives the intellectual output of the scientific community of the CUSAT faculty, research scholars and scientists. This service enables the CUSAT community to archive the preprints, postprints, theses, conference proceedings,
teaching and learning materials and other scholarly publications. The URL of Dyuthi is http://dyuthi.cusat.ac.in/xmlui.

The Digital repository is developed by using DSpace software having 3904 records in the following communities in the collection.

- Conference Proceedings
- Erudite
- E-Scholarship
- PhD Theses
- Preprints
- Research Centers
- Videos
- Workshops

**DSpace at CUSAT**

**URL:** [http://dspace.cusat.ac.in/dspace/](http://dspace.cusat.ac.in/dspace/)

**Organization:** CUSAT (Cochin University of Science and Technology)

**Address:** Cochin-22, Kerala, India

**Description:** This site provides access to the output of the institution. The interface is in English.

**Type:** Institutional - Operational

**Size:** 1912 items (2009-11-10)

**Software:** DSpace

**Subjects:** Multidisciplinary

**Content:** Articles; Learning Objects; Multimedia; Special

**Languages:** English; Malayalam

**Contacts:** G Santhosh Kumar (san@cusat.ac.in), Administrator

**Remarks:** Special items include previous Exam papers
4.2.6 INDIAN INSTITUTE OF ASTROPHYSICS REPOSITORIES

The Indian Institute of Astrophysics (IIAP) is a premier research institute devoted to research in astronomy, astrophysics and related physics. The IIAP developed Repository using DSpace software. It is the open access institutional repository, developed to capture, disseminate and preserve research publication of the IIAP. The repository also gives access to full-text contents of current and back volumes of Bulletin of the Astronomical Society of India. The institutional repository having 5030 records in the following communities in the collection. The URL of repository of the Indian Institute of Astrophysics is: http://prints.iiap.res.in/
Archival Collection in Repository.
- Annual Reports [17],
- Archival Collections [378],
- IIAP Ph.D. Theses [91],
- IIAP Publications [3132],
- Miscellaneous [7],
- Newspaper Clippings and Magazine Articles [136],
- Papers published in Bull. Astr. Soc. India [1494],
- Posters, Brochures and Fliers [6],
- Profiles and Photographs [23],
- Technical Brochure [1],
- Technical Reports Series [4],
- Video Presentation [2]

Indian Institute of Astrophysics Repository (DSpace@IIA)

URL: http://prints.iiap.res.in/

Organisation: Indian Institute of Astrophysics

Address: II Block, Koramangala, Bangalore 560 034

Country: India

Tel.: 080-25530672

Description: This site is an institutional repository providing access to the publication output of the organisation. Registered users can set up email alerts and RSS feeds to notify them of newly added relevant content.

Type: Institutional - Operational

Size: 5030 items

OAI-PMH: http://prints.iiap.res.in/oai/request

Software: DSpace

Subjects: Physics and Astronomy

Content: Articles; Theses; Multimedia; Special

Languages: English
4.2.7 Indian Institute of Management, Kozhikode

IIMK's institutional repository is a scholarly archiving facility for the IIMK community, using the BSD DSpace software, jointly developed by MIT Libraries and Hewlett-Packard Labs. This repository provides open access archiving facilities to the IIMK communities such as faculty members, students and researchers, to reach worldwide audiences and to improve impact of their research. It covers book reviews, case studies, Journal articles, conference papers, working papers and conference proceedings in the areas of management, business, economics, communication, and social sciences. It facilitates selfarchiving and long-term preservation of scholarly publications. It is compliant to OAI-PMH (Protocol for Metadata Harvesting) and indexed in the CASSIR (Cross Archive Search Service for Indian Repositories), and OpenDOAR (Directory of Open Access Repositories).
4.2.8 ELECTRONIC THESIS AND DISSERTATION OF INDIAN INSTITUTE OF SCIENCE, BANGALORE

This is the digital repository of Theses and Dissertations of Indian Institute of Science, Bangalore, India. Theses and dissertations can be search, browse and access from this collection. This repository has been developed to capture, disseminate and preserve research theses of Indian Institute of Science. It complements ePrints@IISc, the research publications repository of IISc. The digital repository is developed by using DSpace software.
Electronic Theses and Dissertations at Indian Institute of Science
(edt@IISc)

URL: http://etd.ncsi.iisc.ernet.in/

Organisation: Indian Institute of Science, Bangalore (IISc)

Address: Bangalore, 560 012

Description: This site is a university repository providing access to the publication output of the institution. As such the materials available on this site reflect the institution's interest in the applied and pure sciences and engineering. Registered users can set up email alerts to notify them of newly added relevant content. The site interface is in English, and at times can be somewhat sluggish to respond to requests for information. This site is the counterpart of ePrints@IISc, the research publications repository of IISc.

Type: Institutional - Operational

Size: 917 items

OAI-PMH: http://etd.ncsi.iisc.ernet.in/dspace-oai/request

Software: DSpace

Subjects: Multidisciplinary

Content: Theses

Languages: English

Contacts: admin@etd.ncsi.iisc.ernet.in, Site Administrator, Tel. 08022932511
4.2.9 Open Access Repository of Indian Institute of Science, Bangalore

ePrints@IISc repository collects preserves and disseminates in digital format the research output created by the IISc research community. It enables the Institute community to deposit their preprints, post prints and other scholarly publications using a web interface, and organizes these publications for easy retrieval. While eprints@IISc can be accessed by anybody, submission of documents to this repository is limited to the IISc research community only. ePrints@IISc repository is running on EPrints open archive software, a freely distributable archive system available from eprints.org. ePrints@IISc complies with the Open Archives Initiative (OAI) framework allowing publications to be easily indexed by web search engines and other indexing services.
Collection in the repository:

The repository has 24801 records in the collection. The records are classified according to type of documents as follow.

- Book (6)
- Book Chapter (58)
- Conference Paper (2048)
- Conference Poster (47)
- Conference Proceedings (66)
- Departmental Technical Report (30)
- Editorials/Short Communications (582)
- Journal Article (21720)
- Patent (23)
- Preprint (216)
- Teaching Resource (4)

Open Access Repository of IISc Research Publications (ePrints@iisc)

URL: http://eprints.iisc.ernet.in/

Organisation: Indian Institute of Science, Bangalore (IISc)

Address: Bangalore, 560 012
Country: India
Tel.: 080-23600757

Description: This site is a subject based institutional repository providing access to the research output of the organization. However, not all of the items listed on this site are available through Open Access. Many of the post-print articles, and some others, are restricted to registered users of the site only, whilst others are linked to on other sites

Type: Institutional – Operational
Size: 18949 items (2010-02-04)

OAI-PMH: http://eprints.iisc.ernet.in/perl/oai2

Software: EPrints, Version: 3.1.3

Subjects: Chemistry and Chemical Technology; Mathematics and Statistics; Physics and Astronomy

Content: Articles; References; Conferences; Unpublished; Books; Patents; Special

Languages: English

Contacts: eprints@eprints.iisc.ernet.in, Site Administrator, Tel. 080-23600271
4.2.10 INDIAN INSTITUTE OF TECHNOLOGY, MUMBAI

Central library, IIT Bombay has set up an open archive of institutional publications including journal articles (preprints/postprints), conference papers, book chapters, reports, theses and dissertations, and other scholarly publications using open source software, DSpace developed by MIT and HP Labs.

It enables the Institute community to deposit (self archive) their publications using a web interface, and organizes these publications for easy retrieval. It is expected that the repository will evolve as a major source of reference for all IIT Bombay publications accessible on the net. The repository has 1659 records of faculty publications.
DSpace@IITB

URL: http://dspace.library.iitb.ac.in/jspui/
Organisation: Indian Institute of Technology, Bombay (IITB)
Address: Bombay
Description: This is an institutional repository for the Indian Institute of Technology Bombay, providing access to its research output. Registered users can set up RSS feeds in order to notify them new added materials.
Type: Institutional - Operational
Size: 1657 items (2010-04-16)
OAI-PMH: http://dspace.library.iitb.ac.in/dspace-activity/request
Software: DSpace
Subjects: Multidisciplinary
Content: Articles; Conferences
Languages: English
Contacts: 1. Mahendra Jadhav (jadhavm@iitb.ac.in), Assistant Librarian
2. dspace@iitb.ac.in, Administrator

Figure No.19
Digital Repository of IIT, BOMBAY
The Indian Institute of Technology Delhi is an internationally acclaimed technological institution in India. The EPrints at IIT Delhi is one of the oldest open access archives in India, providing worldwide access to scholarly literature, authored by faculty members and research scholars. This repository is becoming a reliable open access scholarly communication channel for disseminating research publications produced by research community in the institute. It also includes convocation addresses and electronic theses and dissertations (ETD). EPrints at IIT Delhi has coverage in applied science, engineering and technology areas. The administrator of this repository offers a mediated deposit service to archive publications on behalf of a faculty member. This repository is compliant to OAI-PMH (Protocol for Metadata Harvesting) and indexed in the CASSIR (Cross Archive Search Service for Indian Repositories), Google Scholar, OAIster and OpenDOAR (Directory of Open Access Repositories).

**EPrints@IITD**

**URL:** [http://eprint.iitd.ac.in/dspace/](http://eprint.iitd.ac.in/dspace/)

**Organisation:** Indian Institute of Technology, Delhi (IITD)

**Description:** This is an institutional repository providing access to the research and theses output of the Indian Institute of Technology, Delhi.

**Type:** Institutional - Operational

**Size:** 2141 items (2008-05-16)

**OAI-PMH:** [http://eprint.iitd.ac.in/dspace-oai/request](http://eprint.iitd.ac.in/dspace-oai/request)

**Software:** DSpace

**Subjects:** Multidisciplinary

**Content:** Articles; Theses

**Languages:** English

**Contacts:**
1. Jagdish Arora (jarora@library.iitd.ac.in), Librarian
2. Ashok Kumar Rai (kashokrai@gmail.com)
4.2.12 LIBRARIANS’ DIGITAL LIBRARY

The Documentation Research and Training Centre (DRTC) is a premier library school in India. DRTC conducts workshops and seminars annually on the latest topics applicable to the library and information services. The Librarians’ Digital Library (LDL) is a national-level open access archive in the area of library and information science. Initially the collection was developed through a digitization project, where proceedings and training modules of DRTC seminars/workshops were digitized. Later, a self-archiving process was made open to the library professionals registered with this portal. This open access repository stores different kinds of scholarly materials such as journal articles, conference papers, theses, dissertations, reports, presentations, multimedia objects and digital photos pertaining to the specific subject. Although major documents are written in the English language, a few sample documents can be found in Hindi or Kannada. A certain level of encryption and security is embedded in the site which may cause some users accessibility problems. LDL also provides an indicative list of open access...
repositories in India using DSpace open source software. LDL has the potential to become an internationally-acclaimed open access repository similar to E-LIS (E-Prints in Library and Information Science) and dLIST (Digital Library of Library and Information Technology). This repository is compliant to OAI-PMH (Protocol for Metadata Harvesting) and indexed in the OpenDOAR (Directory of Open Access Repositories), Google Scholar and OAIster.

**Organisation:** Documentation Research and Training Centre (DRTC), Indian Statistical Institute, Bangalore Centre (ISI), India

**Description:** This is a subject based repository providing access to publications in Library and Information Science from Indian Statistical Institute. Registered users can set up email alerts to notify them of newly added relevant content. A certain level of encryption and security is embedded in the site which may cause some users accessibility problems.

Uses Manakin interface for DSpace

**OAI-PMH:** https://drtc.isibang.ac.in/oai/request

**Software:** DSpace

**Size:** 249 items (2009-03-13)

**Subjects:** Library and Information Science

**Content:** Articles; Conferences; Theses; Multimedia

**Languages:** English; Hindi; Kannada

**Policies:**
- Metadata re-use policy explicitly undefined;
- Full data item policies explicitly undefined;
- Content policies explicitly undefined;
- Submission policies explicitly undefined;
- Preservation policies not stated
4.2.13 MANAGEMENT DEVELOPMENT INSTITUTE

The Management Development Institute (MDI), Gudgaon is a leading business school in India. The MDI Digital Repository is an institutional repository providing worldwide access to the research publications, contributed by the faculty members and scholars of the institute. It also provides access to annual B-School rankings (published in news magazines) and MDI in the news (news clippings), in addition to multidisciplinary /interdisciplinary research publications of researchers and faculty members. This Repository is compliant to OAI-PMH and indexed in the CASSIR (Cross Archive Search Service for Indian Repositories), OAIster and OpenDOAR.
4.2.14 NATIONAL SCIENCE DIGITAL LIBRARY (NSDL)

National Science Digital Library (NSDL) is envisaged as first of its kind to benefit the students at undergraduate level in Indian universities and colleges by providing Internet access to digital resources of curriculum related material in science and technology.

There are about 16,000 publishers in India who are publishing 70,000 titles out of which 28,000 titles are in English which include books, reference books, general books, guidebooks, competition papers, examination papers, etc. However,
curriculum based focused content is not easily available to the students leaving a gap in the information needs of the student community.

To bridge this gap, NSDL embarked upon to create original and targeted contents by identified panels of experts/authors for about 1000 e-books targeting the undergraduate level. Currently science disciplines like Agriculture, Anthropology, Biochemistry, Botany, Chemistry, Geology, Horticulture, Industrial Chemistry, Library Science, Marine Sciences, Micro-biology, Pharmacy, Polymer Science, Space Research, Statistics, and Zoology are selected for which e-books are written and being published on NSDL. NSDL selected, DSpace the open source software for the digital library.

Collection in the NSDL Subject wise

- Agriculture [62]
- Anthropology [21]
- Biochemistry [65]
- Biology [7]
- Botany [49]
- Chemistry [39]
- Environmental Sciences [11]
- Geology [4]
- Horticulture [10]
- Industrial Chemistry [2]
- Library Science [21]
- Marine Sciences [0]
- Mathematics [10]
- Microbiology [58]
- NISCAIR Popular Science Books [16]
- Pharmacy [65]
- Physics [8]
- Polymer Science [10]
- Space Research [1]
- Statistics [13]
Zoology [68]

**Organisation:** NISCAIR (National Institute of Science Communication and Information Resources), India

**Description:** The repository provides free access to the ebooks on different disciplines of Science. These ebooks can be used as a text books. The ebooks can be freely downloaded for personal use. The interface is in English.

**Software:** DSpace

**Size:** 1000 items (2010-03-04)

**Subjects:** Science General

**Content:** Books

**Languages:** English

**Figure No.23**

National Science Digital Library

![National Science Digital Library](image)
4.2.15 NISCAIR ONLINE PERIODICALS REPOSITORIES


**Organisation:** NISCAIR (National Institute of Science Communication and Information Resources), India

**Description:** This site provides access to the outputs of the institution, Many items are not available as full-text outside of the institution. Users may set up RSS feeds and email updates to be alerted to new content. The interface is in English.

**Software:** DSpace

**Size:** 9604

**Subjects:** Multidisciplinary

**Content:** Articles; References

**Languages:** English
4.2.16 NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

National Institute of Technology, Rourkela (NIT) formerly known as Regional Engineering College, (REC) is one of the premier national level institutions for technical education in the country. It is funded by the Government of India. Government of India has elevated the Regional Engineering College, Rourkela to a deemed university under the name of National Institute of Technology, Rourkela. Dspace@nitr is the Digital Archive of NITR Research Outputs which collects preserves and disseminates the intellectual output of NITR to the global audience. Presently, it archives journal articles, pre-prints and conference papers authored by NITR researchers.
Organisation: National Institute of Technology, Rourkela (NITR), India

Description: This is an institutional repository that collects, preserves and disseminates the intellectual output of the National Institute of Technology. As such the content reflects the interests of the institute which are primarily engineering and applied science. Registered users of the site can set up email alerts to notify them of newly added relevant content.

OAI-PMH: http://dspace.nitrkl.ac.in:8080/dspace-oai/request

Software: DSpace

Size: 1282

Subjects: Chemistry and Chemical Technology; Physics and Astronomy; Mechanical Engineering and Materials

Content: Articles; Conferences; Theses; Books

Languages: English

Figure No.25
Digital Archive of NITR, Rourkela
4.2.17 Delhi Technological University, Delhi

Delhi Technological University (DCE) is reputed university in Delhi with a history stretching back over 65 years, providing technical education within a modern educational environment and strong academic staff, DCE is strongly identified with engineering education in India. The Library uses Dspace, Digital Library software package for managing the Full Text/Dissertations. The uploading of thesis and dissertations is a continuous process. All the projects/thesis is maintained in the Digital Library & access to which is available in campus network as well as on internet. The number of records in the collection is 793 and the URL of the digital library is: http://dspace.dce.edu/

Figure No.26
Digital Library of Delhi Technological Library.
The Raman Research Institute is an autonomous research institute engaged in research in basic sciences. In 1972, the RRI was restructured to become an aided autonomous research institute receiving funds from the Department of Science and Technology of the Government of India. The main areas of research at the Institute are Astronomy & Astrophysics, Light & Matter Physics, Soft Condensed Matter and Theoretical Physics. The research activities include work in Chemistry, Liquid Crystals, Physics in Biology, and Signal Processing, Imaging & Instrumentation.

The RRI Digital Repository collects preserves and disseminates in digital format the research output of the RRI community. It enables the RRI community to deposit their preprints, post prints and other publications using a web interface and organizes these publications for easy retrieval. In addition to this, it also contains the annual reports of RRI and newspaper clippings from the Raman Archives. It is running on DSpace, an open source software which complies with the Open Archives Initiative (OAI) framework allowing publications to be easily indexed and searched by web search engines and other indexing services.

Content of Digital Repository:

- Collected papers of C.V. Raman
- Research papers of our faculty and students (version/format subject to each publisher’s policy on the matter)
- Theses
- Annual Reports of RRI
- Newspaper clippings from the Raman archives

The number of records in the collection is 3760 and the URL of the digital repository is: http://dspace.rri.res.in/
Organisation: Raman Research Institute, India

Description: This site is an institutional repository providing access to the publication output of the Raman Research Institute community. Registered users can set up email alerts to notify them of newly added relevant content. The site is well supported with background information and guidance documentation.

OAI-PMH: http://dspace.rri.res.in/dspace-oai/request

Software: DSpace

Size: 3760

Subjects: Physics and Astronomy

Content: Articles; Unpublished; Learning Objects

Languages: English

Figure No.27

Digital Repository of Raman Research Institute, Bangalore
4.2.19 National Institute of Oceanography, Panaji

National Institute of Oceanography (CSIR) has developed ‘Digital Repository Service’ using Dspace Digital Library Software. DRS@nio tries to collect, preserve and disseminate different institutional publications (journal articles, conference proceeding articles, Technical reports, thesis, dissertations, etc). The number of records in the collection is 4966 and the URL is: http://drs.nio.org/drs/index.jsp. This repository is compliant to OAI-PMH (Protocol for Metadata Harvesting) and indexed in the CASSIR (Cross Archive Search Service for Indian Repositories), and OpenDOAR (Directory of Open Access Repositories).

Collections in the communities:

- Biological Sciences [1072]
- Chemical Sciences [343]
- Engineering & Instrumentation [183]
- Geology & Geophysical Sciences [923]
- Interdisciplinary Oceanography [283]
- Marine Archaeology [180]
- Materials Sciences [47]
- Miscellaneous [110]
- Physical Sciences [599]

**DRS at National institute Of Oceanography (DRS@nio)**

**URL:** http://drs.nio.org/

**Organisation:** NICMAS (NIO library)

**Address:** Dona Paula - 403 004, Goa

**Country:** India

**Tel.:** 0832-2450450

**Fax:** 0832-2450602

**Description:** This site is an institutional repository providing access to the publications output of the organisation. This site is well supported with background information.

**Type:** Institutional - Operational

**Size:** 4966

**OAI-PMH:** http://drs.nio.org/oai/request

**Software:** DSpace

**Subjects:** Science General; Technology General; Arts and Humanities General

**Content:** Articles; Conferences; Theses

**Languages:** English

**Contacts:** Satya Ranjan Sahu (satya@nio.org), Site Administrator
4.2.20 VIDYANIDHI DIGITAL LIBRARY, UNIVERSITY OF MYSORE

The Vidyanidhi is a national digital library for Electronic Thesis & Dissertation (ETD), initiated by the University of Mysore and supported by the department of Scientific & Industrial Research (DSIR), Ford Foundation and Microsoft India. Vidyanidhi aims to enhancing visibility of Indian doctoral research through archiving and disseminations doctoral dissertations of researchers submitted in Indian universities to a global audience. This is a national level repository, covering major Indian universities. Vidyanidhi maintains mainly two kinds of databases, a bibliographic database and a full text repository using DSpace software. Its bibliographic database has interfaces for Simple search, advanced search, field-specific search, subject search, supervisor search, author search, author
search, and search in Indian languages. Kannada/ Hindi. The search results display the following metadata: Title, Creator (Author), Subject, Contributor (Supervisor), Language, Degree grantor and year. The electronic thesis repository can be browsed by name of the communities, name of collections, title of thesis, name of researcher and by date. The information retrieved from the execution of a search query leads to retrieval of full text contents of the thesis. Vidyanidhi is listed and harvested by many online directories and metadata harvesters such as Google Scholar, OAI, open DOAR, and CASSIR.

**DSpace at Vidyanidhi**

**URL:** http://dspace.vidyanidhi.org.in:8080/dspace/

**Organisation:** University of Mysore

**Country:** India

**Description:** This is a repository for the University of Mysore, providing access to doctoral theses. The interface is in English.

**Type:** Institutional - Operational

**Size:** 5480 items (2009-10-20)

**OAI-PMH:** http://dspace.vidyanidhi.org.in:8080/dspace-oai/request

**Software:** DSpace

**Subjects:** Multidisciplinary

**Content:** Theses

**Languages:** English; Hindi; Kannada

**Contacts:** Dr. Shalini Urs
4.2.21 NATIONAL CHEMICAL LABORATORY, PUNE

The DSpace@NCL is an institutional repository of the National Chemical Laboratory, a premier public R&D institution of Council of Scientific and Industrial Research (CSIR). This repository provides open access archiving facilities to the NCL communities such as scientists and researchers, to reach worldwide and to improve impact of their scholarly publications. The majority of material currently consists of PhD theses and patents. It also covers research papers of NCL scientists, technical reports, project reports, research reports, journal articles and conference papers in different areas of chemical sciences and chemical technologies. It facilitates self-archiving and long-term preservation of scholarly publications. Using this facility, registered users can set up email alerts to notify them of newly added relevant content. This repository is compliant to OAIPMH (Protocol for Metadata Harvesting) and indexed in the CASSIR (Cross Archive Search Service for Indian Repositories), OAIster and OpenDOAR (Directory of Open Access Repositories).
DSpace at National Chemical Laboratory (DSpace@NCL)

URL: http://dspace.ncl.res.in/dspace/

Organisation: Dr. Homi Bhabha Road
National Chemical Laboratory (NCL)

Description: Institutional repository of the Indian National Chemical Laboratory. The majority of material is currently Ph.D theses and patents, although there are plans to include research papers in the future. Registered users can set up email alerts to notify them of newly added relevant content

Type: Institutional - Operational
Size: 407 items (2009-03-13)

OAI-PMH: http://dspace.ncl.res.in/dspace-oai/request

Software: DSpace

Subjects: Chemistry and Chemical Technology

Content: Theses; Unpublished; Patents

Languages: English

Contacts: Dr. M. Karthikeyan (karthi@ems.ncl.res.in), Scientist, Information Division, Tel. 020-25893400

Figure No.30

Digital Repository of National Chemical Laboratories, Pune
4.2.22 VIGYAN PRASAR DIGITAL LIBRARY

Vigyan Prasar, established in 1989 as an autonomous society under the Department of Science and Technology (DST), undertakes large scale science popularization tasks in the country. Popular science books and periodical 'Dream 2047', published by Vigyan Prasar, are well accepted by the science communicators and popular science activists in India and other South Asian countries. Vigyan Prasar maintains a network of science clubs, popularly known as VIPNET, across the country for propagating scientific temperament among the youths and school children. Vigyan Prasar Science Portal, maintained by Vigyan Prasar Information System (VIPRIS), aims to provide updated information for anything and everything on science from India.

Vigyan Prasar maintains an open access digital library to spread scientific knowledge, where the digital collection contains digitized full-text versions of all significant scientific works that are being published by Vigyan Prasar. So far, 72 books in English, 42 books in Hindi and 17 books in other languages are available in this digital library. The books in this digital library can be searched, a popular science Dream 2047 by keywords, title of the book, name of the author and language magazine and an open access periodical, is also archived in Vigyan Prasar Science Portal from volume one.

Figure No.31
Vigyan Prasar Digital Library, New Delhi
4.2.23 DIGITAL LIBRARY OF INDIA

The Digital Library of India (DLI) is the greatest digital library initiative in South Asia, spreading all over the country and establishing a network of four mega scanning centres and 21 scanning centres, which feed the digital contents into the digital library systems. Dr. A.P.J. Abdul Kalam, the former President of India, launched portal of Digital Library of India on 8th September, 2003. DLI is a part of the Universal Digital Library (UDL) and Million Books Project, coordinated by the Carnegie Mellon University, USA. Presently DLI is available in three portals, hosted in three cities, i.e. Bangalore, Hyderabad and Noida. This initiative has become a test bed for many Indian language technology researches including the development of machine translation systems, optical character recognition (OCR) systems, summarizers, text-to-speech (TTS) systems and so on. DLI is also a huge repository for all major Indian languages, where many Indian language classics published before 1900 are freely available to global readers.

Figure No.32

Digital Library of India
4.2.24 Digital Library at Indian Statistical Institute, Bangalore

Digital Library at Indian Statistical Institute, Bangalore (ISI Library)
URL: http://library.isibang.ac.in:8080/dspace/
Organisation: Indian Statistical Institute, Bangalore Centre (ISI)
Address: 8th Mile, Mysore Road, R.V. College P.O., Bangalore-560 059
Country: India
Location: Latitude: 12.974800 & Longitude: 77.587700, Google Map
Description: This is an institutional repository providing access to the published output of the organisation. Registered users can set up email alerts to notify them of newly added relevant content. The site can be relatively sluggish in terms of accessibility speeds to the content.
Type: Institutional - Operational
Size: 191 items (2009-03-13)
Software: DSpace
Subjects: Mathematics and Statistics

FIGURE NO.33
Digital Library at Indian Statistical Institute, Bangalore

![Digital Library at Indian Statistical Institute, Bangalore](image-url)
4.2.25 National Center for Radio Astrophysics, Pune

The National Centre for Radio Astrophysics (NCRA) is a premier Indian research centre in the area of radio astrophysics and astronomy. NCRA provides a unique facility for radio astronomical research at metre wavelengths, called Giant Metrewave Radio Telescope (GMRT). DSpace at NCRA provides access to research publications produced by researchers of this centre.

**Type of Initiative:** Institutional Repository

**Implementing Agency:** National Centre for Radio Astrophysics (NCRA)

**Participating Institution:** Giant Metrewave Radio Telescope (GMRT), Pune

**Supporting Agency:** Tata Institute of Fundamental Research (TIFR), Department of Atomic Research (DAE), Government of India

**Software Used:** DSpace

**Records:** 84

**Web Address:** http://ncralib.ncra.tifr.res.in:8080/dspace/

Figure no.34

Scientific Information Resource Center for NCRA, Pune
4.2.26 Central Marine Fisheries Research Institute, Cochin

The Central Marine Fisheries Research Institute established by the Government of India under the Ministry of Agriculture. Eprints@CMFRI is the Open Access research outputs repository of Central Marine Fisheries Research Institute. Research outputs of CMFRI - journal papers, conference papers, reports, theses, patents etc. - are uploaded/self-archived by CMFRI scientists who do research on fisheries and related areas. Interested users can freely download and use documents as most of them are directly accessible and full-text downloadable.

COLLECTIONS IN THE REPOSITORY:

- Article (5129) Book (29)
- Book Section (338) Conference or Workshop Item (604)
- Dataset (14) Monograph (205)
- Other (42) Teaching Resource (154)
- Thesis (56)

CMFRI Digital Repository (Eprints@CMFRI)

URL: http://eprints.cmfri.org.in/
Organisation: Central Marine Fisheries Research Institute (CMFRI)

Description: This site provides users with access to the research output of the institution. Users may set up RSS and Atom feeds to be alerted to new content. Some items are not available as full text, however the 'Request Copy' forms can be used for documents to which direct full-text download is restricted due to publisher embargo.

Type: Institutional - Operational

Size: 3633 items (2010-09-22)

Software: EPrints

Subjects: Agriculture, Food and Veterinary; Biology and Biochemistry; Ecology and Environment; Health and Medicine

Content: Articles; Conferences; Theses; Unpublished; Books; Patents

Languages: English

Contacts: V.Edwin Joseph (cmfrilib@md4.vsnl.net.in), Administrator
4.2.27 ICFAI BUSINESS SCHOOL

The ICFAI Business School is a private sector management institute having branches all over the country. ICFAI Business School, Ahmedabad has established an institutional repository harbouring publications produced by the Institute's students and faculty members in the areas of management sciences, economics, planning, mathematics, statistics, and information science. This repository stores publications such as journal articles, case studies, conference papers, conference proceedings, unpublished documents, research reports, books and learning materials. It is compliant to OAI-PMH (Protocol for Metadata Harvesting) and indexed in the CASSIR (Cross Archive Search Service for Indian Repositories), and OpenDOAR.
DSpace at IBS Ahmedabad (DSpace@IBSA)

URL: http://202.131.96.59:8080/dspace

Organisation: ICFAI Business School

Address: Ahmedabad

Location: Latitude: 23.033330 & Longitude: 72.616670, Google Map

Description: The institutional repository of ICFAI Business School, Ahmedabad. Registered users can set up email alerts to notify them of newly added relevant content.

Type: Institutional - Operational

Size: 213(2009-03-13)


Software: DSpace

Subjects: Mathematics and Statistics; Business and Economics; Library and Information Science; Management and Planning

Content: Articles; Conferences; Unpublished; Books; Special

Languages: English

Figure No.36

DSpace at IBS Ahmedabad
4.2.28. Central Drug Research Institute, Lucknow:

The Central Drug Research Institute (CDRI) was established under the Council of Scientific & Industrial Research, an autonomous registered Society of the Government of India, as a centre of excellence dedicated to drug research. Digital Knowledge Repository Service of Central Drug Research Institute, Lucknow, India. **DKR@CDRI** strives to collect, preserve and disseminate different institutional publications i.e. journal articles, conference proceeding articles, technical reports, thesis, dissertations, etc.

**Digital Knowledge Repository of Central Drug Research Institute (DKR@CDRI)**

**URL:** http://dkr.cdri.res.in:8080/dspace

**Organisation:** Central Drug Research Institute (CDRI)

**Address:** , Lucknow

**Country:** India

**Description:** This site provides access to the research outputs of the institution. The interface is in English.

**Type:** Institutional - Operational

**Size:** 135 items (2008-12-09)

**OAI-PMH:** http://dkr.cdri.res.in:8080/dspace-oai/request

**Software:** DSpace

**Subjects:** Biology and Biochemistry; Health and Medicine

**Content:** Articles; Unpublished

**Languages:** English

**Contacts:**
1. Suman Kumar Mallik (sumanmallik@cdri.res.in), Administrator
2. dspace-help@cdrimail.com, OAI Administrator
4.2.29 Indira Gandhi Institute of Development Research, Mumbai

The Indira Gandhi Institute of Development Research (IGIDR) is an advanced research institute established by the Reserve Bank of India for carrying out research on development issues from a multi-disciplinary point of views. The library of the Institute aims to be a leading research library in the fields of development studies, development economics, energy and environmental studies, general economics and Indian economy. The institute developed Kautilya Digital Repository which covers conference proceedings, thesis and dissertations and research articles, etc.
Organisation: IGIDR Library, Indira Gandhi Institute of Development Research (IGIDR), India

Description: This site provides access to the research output of the institution and its students. The interface is in English.

OAI-PMH: http://oii.igidr.ac.in:8080/dspace-oai/request

Software: DSpace

Size: 193 items (2009-06-22)

Subjects: Multidisciplinary

Content: Conferences; Theses; Unpublished

Languages: English

Figure No.38
Kautilya Digital Repository of IGIDR.
4.2.30. National Centre for Catalysis Research (NCCR):

ePrints@Catalysis repository collects preserves and disseminates in digital format the research output created by the National Centre for Catalysis Research (NCCR) and also other catalysis research publications from India on behalf of the Catalysis Society of India (CSI). It enables the Catalysis community to deposit their preprints, postprints and other scholarly publications using a web interface, and organizes these publications for easy retrieval. While eprints@Catalysis can be accessed by anybody, submission of documents to this repository is limited to the catalysis research community of NCCR and India. ePrints@Catalysis repository is running on EPrints open archive software, a freely distributable archive system available from eprints.org. ePrints@Catalysis complies with the Open Archives Initiative (OAI) framework allowing publications to be easily indexed by web search engines and other indexing services.

**National Centre for Catalysis Research** (NCCR), started functioning from July 2006 with the objectives of carrying out research in the various areas of catalysis, such as new energy sources, nano-materials as catalysts, green processes, photo-catalysis, electro-catalysis, and bio-catalysis.

**Catalysis Database (ePrints@NCCR)**

**URL:** [http://www.eprints.iitm.ac.in/](http://www.eprints.iitm.ac.in/)

**Organisation:** National Centre for Catalysis Research (NCCR)

**Address:** Department of Chemistry, Indian Institute of Technology, Madras,

**Description:** This site collects materials produced by the NCCR and other catalysis related scholarly material produced by members of the Catalysis Society of India (CSI). RSS and Atom feeds are available for keeping readers up to date with new additions.

**Type:** Aggregating - Operational

**Size:** 1478 items (2010-02-04)

**OAI-PMH:** [http://www.eprints.iitm.ac.in/cgi/oai2](http://www.eprints.iitm.ac.in/cgi/oai2)

**Software:** EPrints, **Version:** 3.0

**Subjects:** Chemistry and Chemical Technology

**Content:** Articles; Conferences; Theses
Languages: English

Contacts: Prof. B. Viswanathan (bvnathan@iitm.ac.in), Site Administrator

Remarks: This system is running eprints server software (EPrints 3.0 (Beetroot) [Born on 2007-01-23]) developed at the University of Southampton.

Figure No.39
Catalysis database of NCCR, Chennai

4.2.31 Indian Agricultural Research Institute

Eprints@IARI is the open access institutional repository of Indian Agricultural Research Institute. Research outputs of IARI - journal papers, conference papers, reports, theses, patents etc. - are uploaded/self-archived by IARI scientists/scholars who do research on agriculture and related areas. Interested users can freely download and use documents as most of them are directly accessible and
full-text downloadable. 'Request Copy' forms can be used for documents to which direct full-text download is restricted due to publisher embargo.

COLLECTION IN THE REPOSITORY:

- Article (185)
- Book (1)
- Conference or Workshop Item (4)
- Monograph (4)
- Thesis (1)

Eprints@IARI

Organisation: Indian Agricultural Research Institute (IARI), India

Description: This site provides access to the research output of the institution. The interface is in English. Users may set up Atom and RSS feeds to be alerted to new content.

Software: EPrints

Size: 82 items (2010-06-16)

Subjects: Agriculture, Food and Veterinary

Content: Articles; Conferences; Theses; Unpublished

Languages: English

Policies: Metadata re-use permitted for not-for-profit purposes;
- Harvesting full data items by robots prohibited;
- Content policies defined; Submission policies defined;
- Preservation policies explicitly undefined
4.2.32 School of Biotechnology, Madurai Kamraj University

The School of Biotechnology which was earlier as the Department of Biotechnology under the School of Biological Sciences was elevated to the level of School of Biotechnology in 1994. The School, with its strength of ten faculty members, is teaching two National level courses, which are very competitive and are rated at a very high level. The school also has National Research Facilities such as Bioinformatics Centre, Centre for Genetic Engineering and Strain Manipulation, Centre for Plant Molecular Biology and National Facility for High Resolution Graphics. The department developed repository using EPrints open source software which covers the research output of the institute. Eprints@SBT MKU supports OAI 2.0 with a base URL of http://eprints.bicmku.in/cgi/oai/
Eprints@SBT MKU

URL: http://eprints.bicmku.in/

Organisation: School of Biotechnology (SBT)
Madurai Kamaraj University (MKU)

Address: Madurai
Country: India

Description: This repository provides access to the research output of the institute. Users may set up Atom or RSS feeds to be alerted to new content.

Type: Institutional – Operational

Size: 21 items (2010-02-04)

OAI-PMH: http://eprints.bicmku.in/cgi/oai2

Software: EPrints, Version: 3.1.3

Subjects: Biology and Biochemistry

Content: Articles

Languages: English

Contacts: nagoormeeran@gmail.com, OAI Administrator

Figure No.41

Eprints@SBT MKU, Madurai
4.2.33 Indira Gandhi National Open University (eGyankosh)

**eGyankosh** - a National Digital Repository to store, index, preserve, distribute and share the digital learning resources developed by the Indira Gandhi National Open University. The open source digital library software i.e. DSPACE software is used for the development of eGyankosh - a National Digital Repository. Indira Gandhi National Open University (IGNOU) is a mega open university that offers distance and open education to millions of learners in India and other countries. IGNOU produces self-instructional study materials for various programmes and also hosts a number of educational broadcasting channels. IGNOU has initiated the establishment of a National Digital Repository of. This repository envisages to store, index, preserve, distribute and eGyankosh learning resources share the digital learning resources of open and distance learning (ODL) institutions in the country:

The repository supports seamless aggregation and integration of learning resources in different formats such as self-instructional study materials, audio-video programmes, and archives of radio and television-based live interactive sessions. The repository facilitates any time access to its collections (24×7×365), offering interoperability and federated searching facility. The decentralized model of the repository supports multiple submission points facilitating submission of content from remote locations. The collection can be searched and browsed by subject, title, and author.

India Presently, this repository has two communities, i.e. India and the Pan African e-Network. The community has sub-communities, based on different academic divisions in IGNOU such as School of Agriculture, School of Computer and Information Sciences, School of Continuing Education, School of Education, School of Engineering and Technology, School of Health Sciences, School of Humanities, School of Law, School of Management Studies, School of Sciences, and School of Social Sciences. Under each sub-community, the user can get online access to full-text content of Pan African e- self-instructional study materials offered by this academic division. The community provides access to self-instructional study materials of the Master of Business Administration (MBA) programme.
eGyankosh

URL: http://www.egyankosh.ac.in/

Organisation: Indira Gandhi National Open University (IGNOU)

Country: India

Description: This is a learning object repository for the Indira Gandhi National Open University. Many items are only accessible to registered users only.

Type: Institutional – Operational

Size: 6190 items (2008-08-27)

Software: DSpace

Subjects: Multidisciplinary

Content: Learning Objects

Languages: Hindi; English

Contacts: premsinghmalik@yahoo.com, Administrator

Figure No.42

EGyanKosh- a National Digital Repository of IGNOU, Delhi
4.2.34. Dspace@THAPAR UNIVERSITY

The system facilitates interaction amongst TU students, faculty and staff as well as people outside the campus who might be interested in academic, research and administrative activities at TU. Dspace@TU aims to be a Knowledge Management tool, Community of Practices tool, Contents Management tool, Electronic Publishing Platform, Digital Repository of institutional research and official documents.

**Organisation:** Thapar University (TU), India

**Description:** This is an institutional repository providing access to the research output of Thapar University. Some items are only available to registered users.

**Software:** DSpace

**Size:** 938 items (2009-10-29)

**Subjects:** Multidisciplinary

**Content:** Articles; Conferences; Theses

**Languages:** English

**FIGURE NO.43**

DSpace@THAPAR INSTITUTE
4.2.35 National Aerospace Laboratories (NAL)

IR@NAL is a service that the ICAST-NAL offers to the members of its community for the management, preservation and dissemination of digital materials created by the institution and its community members. IR@NAL is an online, open access archive of research output by the National Aerospace Laboratories (NAL) researchers, and includes articles, conference papers, book chapters, Technical reports, Presentation materials and associated data.

NAL's Institutional Repository is the digital archive of the research output of NAL scientists. This knowledge base covers journal articles, conference papers, technical reports, presentation/lectures, preprints, Thesis, images etc. One can browse the documents by author, division, subject, date and document type. Both simple and advanced search facilities have been provided.

**Organisation:** Information Centre for Aerospace Science and Technology (ICAST), India

**Description:** This site is an institutional repository giving access to the research output of the scientists based here.

**OAI-PMH:** [http://nal-ir.nal.res.in/perl/oai2](http://nal-ir.nal.res.in/perl/oai2)

**Software:** EPrints

**Size:** 1320 items (2008-05-16)

**Subjects:** Mathematics and Statistics; Technology General; Mechanical Engineering and Materials

**Content:** Articles; Conferences; Theses; Unpublished; Learning Objects; Multimedia; Patents

**Languages:** English
4.2.36 National Metallurgical Laboratories, Jamshedpur

It is the official Open Access repository of National Metallurgical Laboratory. Locally produced research outputs - Journal papers, conference papers, reports, theses, patents etc. - are uploaded here by NML authors. Interested users can freely download and use documents as most of them are directly accessible and full-text downloadable. 'Request eprint' forms can be used for documents to which direct full-text download is restricted due to publisher embargo.
Collection in the repository:

- Analytical Chemistry (53)
- Applied Chemistry and Corrosion (222)
- Business Development and Monitoring (23)
- Director Office (169)
- Engineering (10)
- Information Management and Dissemination Centre (71)
- Material Science and Technology (726)
- Mathematical Modeling and Simulation (30)
- Metal Extraction and Forming (555)
- Mineral Processing (120)
- NML Chennai (97)
- Chemistry (53)
- Mineral Processing (2)

Organisation: National Metallurgical Laboratory, India

Description: Many items are restricted to local access only. Annual reports are openly accessible. The interface is in English.

Software: EPrints

Size: 2039 items (2010-09-15)

Subjects: Chemistry and Chemical Technology; Technology General

Content: Articles; Conferences; Theses; Books; Patents

Languages: English
4.2.37 Digital Library @ University of Delhi

This institutional repository for the University of Delhi provides access to the publications of the university community such as students, researchers and faculty members located in different departments, centres and colleges. The publications pertain to journal articles, conference proceedings, conference papers, books, patents, etc. written in English language having multidisciplinary or interdisciplinary coverage. The repository follows a self-archiving submission process. This repository is compliant to OAI-PMH (Protocol for Metadata Harvesting) and indexed in the CASSIR (Cross Archive Search Service for Indian Repositories), OAIster and OpenDOAR (Directory of Open Access Repositories).
URL: http://eprints.du.ac.in/
Organisation: University of Delhi (दिल्ली विश्वविद्यालय)
Address: University Road, Delhi 110 007
Description: This site is a university repository providing access to the publication output of the institution.
Type: Institutional – Operational
Size: 170 items (2009-03-13)
OAI-PMH: http://eprints.du.ac.in/perl/oai2
Software: EPrints, Version: 2.3.13.1
Subjects: Multidisciplinary
Content: Articles; Conferences; Theses; Books; Patents
Languages: English
Contacts: webmaster@du.ac.in, Site Administrator

FIGURE NO.46
Digital Library@University of Delhi
4.2.38 OpenMED@NIC

OpenMED is an Open Access Archive in area of Medical and Allied Sciences including Bio-Medical, Medical Informatics, Dental, Nursing and Pharmaceutical Sciences. It is international in scope and includes both published (post-prints) and unpublished (pre-prints) documents having relevance to research in these disciplines. It is hosted by Bibliographic Informatics Division of National Informatics Centre (India) using GNU EPrints Archive Software. The major objective of OpenMED is to provide a free facility to authors to self-archive their publications. This will enable world wide open access to their publication and improve their impact. To promote the Open Access philosophy by archival of full documents by their owners and making these visible, searchable and usable by potential users according to open Access Philosophy. The metadata is expected to be aggregated by various service providers and search engines compliant with OAI-PMH (Open Archives Initiative Protocol for Metadata Harvesting). It would help providing the authors the maximum exposure as well as easy and free access to the users.

Organization: Bibliographic Informatics Division, National Informatics Centre (NIC), India

Description: This subject repository includes materials in all areas of medicine; including biomedical, medical informatics, dentistry, nursing and pharmaceutical sciences. The site includes material published going back over 50 years. A RSS feed detailing the latest submission is available, along with a tutorial for new users.

OAI-PMH: [http://openmed.nic.in/perl/oai2](http://openmed.nic.in/perl/oai2)

Software: EPrints

Size: 2759 items (2009-06-05)

Subjects: Health and Medicine

Content: Articles

Languages: English

Policies: Metadata re-use permitted for not-for-profit purposes; Re-use of full data items permitted for not-for-profit purposes; Content policies explicitly undefined; Submission policies defined; Preservation policies not stated
4.2.39. CSIR-EXPLORATIONS:

The CSIR Explorations is a digital library of electronic dissertations, theses and research reports of the fellowships and projects supported by CSIR. Presently, Explorations consists of three bibliographic databases, namely, E-Thesis, EMR (Extramural Research) and CSIR Publications. E-Thesis database is an authoritative source for information about doctoral theses and dissertations, submitted in Indian universities by researchers who availed CSIR Junior Research Fellowships (JRF) or Senior Research Fellowships (SRF). CSIR fellows carry out their research work in over 250 national laboratories, universities and research institutes in India. Open Access Repository of Indian Theses is powered by EPrints 3.
4.2.40 Institute of Minerals and Materials Technology, Bhubaneswar

It is the official Open Access repository of Institute of Minerals and Materials Technology. Locally produced research outputs - Journal papers, conference papers, reports, theses, patents etc. - are uploaded here by IMMT authors. Interested users can freely download and use documents as most of them are directly accessible and full-text downloadable. 'Request eprint' forms can be used for documents to which direct full-text download is restricted due to publisher embargo.
4.2.41 Ashoka Trust for Research in Ecology and the Environment

ATREE's mission is to promote socially just environmental conservation and sustainable development by generating rigorous interdisciplinary knowledge that engages actively with academia, policy makers, practitioners, activists, students and wider public audiences. The Open Access Institutional Repository (IR) of Ashoka Trust for Research in Ecology and the Environment, ePrints@ATREE collects, preserves, disseminates in digital format of the research output and other scholarly publications created by ATREE research community. It enables its researches to deposit their scholarly publications using web interface, these publications are then organized for easy retrieval. While ePrints@ATREE repository can be accessed by anybody, submission of documents to this repository is restricted to the ATREE community only.
4.2.42. Indian Institute of Spices Research:

The Indian Institute of Spices Research (IISR), Calicut a constituent body of Indian Council of Agricultural Research (ICAR) is a major Institute devoted to research on spices. In 1976, it started as a Regional Station of the Central Plantation Crops Research Institute (CPCRI), Kasaragod engaged in research on spices.
4.2.43 Mahatma Gandhi University, Keral

The Mahatma Gandhi University with B+ accreditation of National Assessment and Accreditation Council, was established on 2nd October 1983, as the fifth University in the Southern most State of Kerala, India. Mahatma Gandhi University has 10 Inter disciplinary Schools of teaching and research and 12 schools of higher learning in Applied Science and Professional Studies, with academic autonomy. The courses in the Departments are conducted in the credit and semester system. The Schools have tied-up with UGC, FIST, DRS, DST, ISRO, COSIST, CSIR, DAAD, STEC, ICMR, BARC, MOEF, ICCSR, ICHR and IED and taken up 70 Research Projects. In order to facilitate inflow of cutting-edge technologies and methodologies, the University Departments have commenced collaborative efforts with CIRAD, Mont Pellvier, France, EHESS, Paris, French
Institute, Pondicherry, Toronto University, Buckney University, Catholic University, Belgium, Max Plank Institute of Technology, Germany, California, Institute of Technology, USA, University of Nantos, France, Edinburgh University, City University, USA, and Ruth Cohn Institute of Theme Centred Interaction, Switzerland.

**FIGURE NO.52**
Mahatma Gandhi University: Online Thesis Library

4.2.44 SARAI Multimedia Digital Archive

Sarai is a programme of the Centre for the Study of Developing Societies (CSDS) one of India’s leading research institutes with a commitment to critical and dissenting thought and a focus on critically expanding the horizons of the discourse on development, particularly with reference to South Asia. We are a coalition of researchers and practitioners with a commitment towards developing a model of research-practice that is public and creative, in which multiple voices express and render themselves in a variety of forms. Sarai developed Multimedia Digital archive using DSpace open source software and initial holdings are Everyday Archive on

The digital archive has following collection in the communities in Dspace.

- Audio
- Film Script
- Pamplets
- Reports
- Slides
- Video
- Video culture.

FIGURE NO.53
Sarai Multimedia Digital Archive.
4.2.45 ARCHIVES OF INDIAN LABOUR

The Archives of Indian Labour was set up in July, 1998 as a collaborative project of V.V. Giri National Labour Institute and the Association of Indian Labour Historians. The Archives of Indian Labour is dedicated to the cause of preserving and making accessible the fast depleting documents on the working class with the belief that, "Archive is to society what memory is to human beings".

The archive, apart from being a repository of sources and documents also builds collections and initiates research in the field of labour history. The collections are generated through projects commissioned at the programme and institutional documents donated by various organisations. Documents related to labour movement are preserved at the archive, in addition to personal narratives, memoirs and video and audio material. The archives combine this effort with an effective public dissemination system of which the offline and on-line access to the digital archives is a major component. Seminars, working papers, film shows, and publications ensure effective ways of disseminating information generated by the archives and other research programmes. The core activities of the archive are, thus:

The Digital Archiving

Research and Collection

Public Interface and Dissemination

The unique features of the Archives are:

Full-fledged digital structure: The documents and material on labour related issues are stored and made available in digital form. This is the first fully digital archives in the country and aspires to be the prime repository of labour related records.
Integrated Multimedia Storage and Retrieval System: The Archives is enabled to store records and material in different media formats—such as printed material, audio, video and digital forms and provide access to these through an integrated delivery system.

Enhanced Public Access: Digital access system installed at the Archives enables fast and meaningful delivery of documents through different access modes—such as offline networked PCs at the Archives, through CDs, and now over the World Wide Web. This enables a far greater access directly to the documents right to the level of page of a document or a tagged audio and video clip than a traditional archival system. A much wider public now can have access to basic information on condition of labour over time.

Integration of historical and contemporary records: The digital archive enables simultaneous access to records of both historical and contemporary period. Organised around special collections, this provides both historical depth to contemporary issues and situates historical changes from a contemporary perspective.

Focus on Records of the unorganised sector labour: The archive has through special collections focused on the activities of the workers of the unrecorded sector. A large number of interviews of workers and labour activists and documents of labour movement in the sector have been stored and can be accessed.

In total 9 special collections comprising 1,00,000 printed pages, 400 hours of taped interviews are stored in digital form. In addition several special reports and articles on labour history of India, a detailed inventory of material and sources on labour history and papers on technical aspects of digital archiving are included in the online version of the Archives of Indian Labour.
ACKNOWLEDGMENTS

The Archives of Indian Labour acknowledges the support and encouragement from:

SARAI- New Media Initiative, [www.sarai.in] for providing invaluable technical support to the Archives. The website interface was designed specially by the Graphic team of SARAI. Special thanks to SARAI Trans of Urban Ecology, Designed Radio, Pandit Gopal, Suresh Srivast, Rupa, Mukesh Chauhan for their creative effort in setting up the Archives Online.

International Institute of Social History, Amsterdam (IISH) [www.iish.nl] has been a constant source of support and encouragement. We wish to thank specially Deepa Wettstein, Director (IISH) who took special interest in the development of the Archives. Maren Merteil Peckman, Associate Director, provided timely and professional evaluation of the digitization programme of the Archives. Harold van der Linden and Jan Lucassen for special encouragement to the Archives.

For invaluable research support:

N M Joshi Centre for Research and Labour Education, New Delhi
Women Education Trust, Chennai
Raja Mahalasah Research Library, Chennai
Ashok Mehta, Bombay and Raj Malgnia, Delhi for providing important IF input in the pilot phase of the project

Thomas McNeil, Veena Joshi, Sujit Kumar were an integral part of the Archives team and provided invaluable support in the initial period.

Shri Hemant Bhat, Vidynarayan, Anil Raje, and Sathy Paulose for help in collecting valuable documents for the Archives.

The Greenstone Digital Library Software, under GNU License, produced by the New Zealand Digital Library (www.nzl.diglib) which is the primary delivery system for the Archives of Indian Labour.

For invaluable research support:

N W Josh Centres for Research and Labour Education, New Delhi
Women Education Trust, Chennai
Raja Mahalasah Research Library, Chennai

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Shri Hemant Bhat, Vidynarayan, Anil Raje, and Sathy Paulose for help in collecting valuable documents for the Archives.

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Shri Hemant Bhat, Vidynarayan, Anil Raje, and Sathy Paulose for help in collecting valuable documents for the Archives.

The Greenstone Digital Library Software, under GNU License, produced by the New Zealand Digital Library (www.nzl.diglib) which is the primary delivery system for the Archives of Indian Labour.

FIGURE NO.55
Digital Library, IIMK.
4.2.47 Vidya Prasarak Mandal, Thane

Vidyaprasarak Mandal, an academic institution in Thane, Maharashtra has developed Digital repository of Vidya Prasarak Mandal having six affiliated colleges, covers the research publication of Institutes. The institute developed the repository in DSpace open source software. It is the first kind of academic institution in Maharashtra who initiated with open source software and developed the repository at institutional level.

DSpace@VPMTHANE.ORG

URL: http://dspace.vpmthane.org:8080/

Organisation: VIDYA PRASARAK MANDAL, THANE

Country: India

Description: This is an institutional repository providing access to the affiliated colleges/institution.

Type: Institutional – Trial

Size: 64 items (2010-11-17)

OAI-PMH: http://dspace.vpmthane.org:8080/xmlui/oai/request

Software: DSpace, Version: 1.4.1

Subjects: Multidisciplinary

Content: Articles; Unpublished

Languages: English

Contacts: Bharat Chaudhari (bharat.chaudhari@ipmg.ac.in), Administrator
The institute covers the collection of following affiliated colleges.

B.N. Bandodkar Science College

Dr. V.N. Bedekar Institute of Management Studies

E Books

E-Journals

K.G. Joshi College of Arts and N.G. Bedekar College of Commerce

TMC Law College

Video conference

Vidyaprasarak Mandal’s Publication

V.P.M’s Advanced Study Centre

VPM’s London Academy for Education and Research

FIGURE NO.56
Digital Repository of Vidyaprasarak Mandal, Thane
4.2.48 DRDO PUBLICATIONS

Defence Research Development Organisation has developed the repository of DRDO publication using GSDL Open source software. The publications are mainly a. DESIDOC Journal of Library and Information Technology & Defence Science Journals. In the DRDO repository, the number of records in ‘DESIDOC Journal of Library and Information Technology’ is 515 and records in Defence Science Journal is 2579.

DESIDOC Journal of Library and Information Technology endeavours to bring recent developments in information technology, as applicable to library and information science, to the notice of librarians, documentation and information professionals, students and others interested in the field. It is published bi-monthly. The articles published in the Journal are indexed in Library and Information Science Abstracts (LISA) and The Informed Librarian.
FIGURE NO.57
Digital Repository of DRDO Publications

Greenstone is a suite of software for building and distributing digital library collections. It provides a new way of organizing information and publishing it on the Internet or on CD-ROM. 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 open-source software, available from http://greenstone.org under the terms of the GNU General Public License.

The aim of the software is to enable users, particularly in universities, libraries, and other public service institutions, to build their own digital libraries. Digital libraries are essentially reusing low-cost information dissemination and acquisition in UNESCO's partner communities and institutions in the fields of education, science and culture around the world, and particularly in developing countries. We hope that this software will encourage the effective deployment of digital libraries to share information and place it in the public domain.

This software is developed and distributed as an international cooperative effort established in August 2000 among three parties.

New Zealand Digital Library Project at the University of Waikato
Greenstone software grew out of this project, and this initiative has been endorsed by the Communication Sub-Commission of the New Zealand National Commission for UNESCO as part of New Zealand's contribution to UNESCO's programme.

FIGURE NO.57 (a)
Digital Repository of DRDO Publications.

About this collection
This collection contains 2579 documents. It was last built 137 days ago.

How to find information in the Defence Science Journal collection
There are 5 ways to find information in this collection:
- search for particular words that appear in the text by clicking the Search button
- browse documents by Volume by clicking the Volume button
- browse documents by Subject by clicking the Subject button
- browse documents by Keywords by clicking the Keywords button
- browse documents by Creator by clicking the Creator button
4.2.49 Open Access theses repository of National Institute of Technology Rourkela

"ethesis@nitr" is the official repository for electronic theses submitted to National Institute of Technology Rourkela. This repository is an attempt to make all locally produced theses more visible to global users. It is mandatory for students of all courses (BTech, MTech, and MTech by Research, MSc and PhD) and from all disciplines to upload the final version of the theses submitted as partial fulfillment of degree. This repository is an Open Access repository and developed by using Eprints open source software. ethesis@nitr is indexed by Google, OAIster, Scientific Commons and BASE.
4.2.50 Madras Diabetes Research Foundation

Eprints@MDRF is the Open Access research outputs repository of Madras Diabetes Research Foundation. Research outputs of MDRF - journal papers, conference papers, reports, theses, patents etc. - are uploaded/self-archived by MDRF scientists who do research on diabetes and related areas. Interested users can freely download and use documents as most of them are directly accessible and full-text downloadable. 'Request Copy' forms can be used for documents to which direct full-text download is restricted due to publisher embargo. This repository is developed by using Eprints open source software. It is indexed by Google, OAIster, Scientific Commons, BASE, and Scirus. The number of record in the repository is 520.
4.2.51 Pandit Deendayal Petroleum University

Pandit Deendayal Petroleum University has been promoted by Gujarat State Petroleum Corporation (GSPC) to create a world class University in energy education and research with special focus on the oil and gas sector. The university developed E-Repository by using DSpace, open source software covering the collection in the following schools.

- School of Liberal Studies
- School of Nuclear Energy
- School of Petroleum Management
- School of Petroleum Technology
- School of Solar Energy

The number of records in the E-repository is 64.
DSpace@PDPU

URL: http://library.pdpu.ac.in:8080/xmlui
Organisation: Institute of Petroleum Management
Pandit Deendayal Petroleum University (PDPU)
Country: India
Description: This is an institutional repository providing access to the research output of the institution. Registered users may sign up to receive email updates.
Type: Institutional – Trial
Size: 64 items (2010-11-17)
OAI-PMH: http://library.pdpu.ac.in:8080/xmlui/oai/request
Software: DSpace, Version: 1.4.1
Subjects: Multidisciplinary
Content: Articles; Unpublished
Languages: English
Contacts: Bharat Chaudhari (bharat.chaudhari@ipmg.ac.in), Administrator

Figure No.60
E-Repository@PDPU.

Search e-Repository
Enter some text in the box below to search your e-Repository.

Communities in e-Repository
Select a community to browse its collections.
- School of Liberal Studies
- School of Nuclear Sciences
- School of Petroleum Management
- School of Petroleum Technology
- School of Solar Energy

My Account
- Login
- Register

This website is using Mahara, a new front end for DSpace created by Texas A&M University Libraries. The interface can be extensively modified through Mahara's Theme Editor. For more information you may visit http://mahara.org and http://宿舍@home.org.
4.2.52 National Institute for Research in the Mathematical and Physical Sciences (IIMS)

The Institute of Mathematical Sciences (IMSc) promotes fundamental research in frontier disciplines of the mathematical and physical sciences: Theoretical Computer Science, Mathematics, and Theoretical Physics. This is the e-print repository of The Institute of Mathematical Sciences, Chennai. IMSc Eprint Archive supports OAI 2.0 with a base URL of http://www.imsc.res.in/eprints/cgi/oai2

**IMSc Eprint Archive**

**URL:** https://www.imsc.res.in/eprints

**Organisation:** The Institute of Mathematical Sciences

**Address:** Chennai.

**Country:** India

**Description:** This site provides access to the output of the institution. Users may set up RSS and Atom feeds to be alerted to new content.

**Type:** Institutional – Trial

**Size:** 41 items (2010-04-16)

**OAI-PMH:** http://www.imsc.res.in/eprints/cgi/oai2

**Software:** EPrints, Version: 3.0.5

**Subjects:** Mathematics and Statistics

**Content:** Conferences, Learning Objects

**Languages:** English

**Contacts:** ravi@imsc.res.in, OAI Administrator
4.2.53 International Crops Research Institute for the Semi Arid Tropics (ICRISAT)

The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) is a non-profit, non-political organization that conducts agricultural research for development in Asia and sub-Saharan Africa with a wide array of partners throughout the world. Covering 6.5 million square kilometers of land in 55 countries, the semi-arid tropics have over 2 billion people, and 644 million of these are the poorest of the poor. ICRISAT and its partners help empower these poor people to overcome poverty, hunger and a degraded environment through better agriculture. ICRISAT is headquartered in Hyderabad, Andhra Pradesh, India, with two regional hubs and four country offices in sub-Saharan Africa. It belongs to the Consortium of Centers supported by the Consultative Group on International
Agricultural Research (CGIAR). ICRISAT has developed open access repository using DSpace software. The number of records in the repository is 3400 records.

**ICRISAT Open Access Repository**

<table>
<thead>
<tr>
<th>URL:</th>
<th><a href="http://openaccess.icrisat.org/">http://openaccess.icrisat.org/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Organisation:</td>
<td>International Crops Research Institute for the Semi Arid Tropics (ICRISAT)</td>
</tr>
<tr>
<td>Address:</td>
<td>Patancheru, via Hyderabad</td>
</tr>
<tr>
<td>Country:</td>
<td>India</td>
</tr>
<tr>
<td>Size:</td>
<td>3400 records.</td>
</tr>
<tr>
<td>Description:</td>
<td>This site provides access to the output of the institution. Some items are not available as full text. Full text items are clearly marked. The interface is available in English or Arabic</td>
</tr>
<tr>
<td>Type:</td>
<td>Institutional – Operational</td>
</tr>
<tr>
<td>Software:</td>
<td>DSpace</td>
</tr>
<tr>
<td>Subjects:</td>
<td>Multidisciplinary</td>
</tr>
<tr>
<td>Content:</td>
<td>Articles; Conferences; Learning Objects; Multimedia</td>
</tr>
<tr>
<td>Languages:</td>
<td>English; Arabic</td>
</tr>
<tr>
<td>Contacts:</td>
<td>S. Srinivas (<a href="mailto:s.srinivas@cgiar.org">s.srinivas@cgiar.org</a>), Administrator</td>
</tr>
</tbody>
</table>

**Figure No.62**

ICRISAT Institutional Repository.
4.2.54 Knowledge Repository of Indian Institute of Horticultural Research (IIHR)

The Indian Institute of Horticultural Research (IIHR) is a premier Institute conducting basic, strategic, anticipatory and applied research on various aspects of fruits, vegetable, ornamental, medicinal and aromatic plants and mushrooms. Popularly known as IIHR, Bangalore, the institute was the first horticultural Research Institute in the country established by the Indian Council of Agriculture Research on 5th September, 1967 at the Head quarters of New Delhi.

Open Access E-Repository@IIHR attempts to collect, preserve and disseminate different institutional publications journal articles, conference proceedings, reports, theses, dissertations, etc. An Open Access Self Archiving Mandate is a policy adopted by a research institution for its researchers in this regard. For institutional record-keeping, research asset management, and performance-evaluation purposes, and in order to maximize the visibility, accessibility, usage and impact of Institute's research output, Institute's researchers are mandated by the Competent Authority, to deposit the final, peer-reviewed, accepted drafts of all their journal articles, conference papers and accepted theses into Institute's institutional repository to be maintained by the ARIS CELL, immediately upon acceptance for publication.

URL: http://www.erepo.iihr.ernet.in/
Organisation: Indian Institute of Horticultural Research (ICAR)
Address: , Bangalore-560 089
Description: This site provides access to the research output of the institution. Many item are not available as full-text. The interface is in English.
Type: Institutional – Operational
Size: 160 items (2011-01-07)
Software: DSpace
Subjects: Multidisciplinary
Content: References; Unpublished; Special
Languages: English
Contacts: R Chithiraichelvan (chithiraichelvan@iihr.ernet.in), Administrator

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4.2.55 Guru Gobind Singh Indraprastha University

**DSpace @ GGSIPU**

**URL:** http://dspace.ipu.ernet.in:8080/jspui/

**Organisation:** Guru Gobind Singh Indraprastha University (सुरू गोबिंद सिंह इंद्रप्रस्थ विश्वविद्यालय)

**Address:** Delhi

**Description:** This is an institutional repository providing access to the research and theses output of the institution. The interface is in English.

**Type:** Institutional – Operational

**Size:** 129 items (2009-08-21)

**OAI-PMH:** http://dspace.ipu.ernet.in:8080/oai/request

**Software:** DSpace

**Subjects:** Multidisciplinary

**Content:** Articles; Theses; Learning Objects

**Languages:** English

**Contacts:**
1. dspace.ipu@gmail.com, OAI Administrator
2. Dr. Anand P. Singh (apsingh95@yahoo.com), Administrator
4.2.56 National Institute of Immunology (NII), India

ePrints@NII
URL: http://eprints.nii.res.in/

Organisation: National Institute of Immunology (NII)
Address: , New Delhi
Description: This site provides access to the output of the institution. Some items are not available as full-text.
Type: Institutional – Operational
Size: 10 items (2008-10-24)
OAI-PMH: http://eprints.nii.res.in/cgi/oai2
Software: EPrints, Version: 3.1.1 (Port and Branch)
Subjects: Biology and Biochemistry
Content: Articles; Unpublished
Languages: English
Contacts: 1. D.K. Ahuja (dkahuja@nii.res.in), Administrator
2. eprints@nii.res.in, OAI Administrator

4.2.57 Bioinformation

Bioinformation publishes original research articles in all aspects of biological knowledge discovery through mathematical and computational analysis of biological data. The journal specifically invites articles describing new biological insights based on primary or derived data.

Figure No.64
Bioinformation
4.2.58. Siddha Articles:

Siddha Papers.com is an Open Access service. It is formed in order to serve as a platform for Siddha Doctors, Experts, Researchers, and Students and for all who can contribute to the scientific development of the Ancient Siddha Science. Here authors/owners can self-archive their scientific and technical documents. These could be peer-reviewed preprints, postprints (refereed journal paper) and accepted theses. In case of non-English documents, descriptive data, abstract and keywords must be in English. Submitted documents will be placed into the submission buffer and would become part of Siddha Papers.com after review/evaluation by Editorial Committee or two assigned members of the committee. Inclusion in Siddha Papers gives no assurance of any kind regarding the correctness or quality of the information. The Copyright of the article lie with the Authors.

Figure No.65
Siddha Articles.
4.2.59 Openagri: An open access agriculture research repository

Openagri is a much more focused research space provided by agropedia. Openagri is a content management platform for hosting agriculture documents. It has document types like Journal Articles, Conference Papers, Book, Book Chapters, Proceedings, Preprints, Multimedia content etc. which allows useful metadata to enable searching and retrieval. For each document being uploaded into this repository, a set of appropriate keywords are assigned automatically from agrotags. A power search interface allows documents to be located easily semantically...

Agropedia is a comprehensive, seamlessly integrated model of digital content organization in the agricultural domain. It aims to bring together a community of practice through an ICT mediated knowledge creating and organising platform with an effort to leverage the existing agricultural extension system. There are three groups of agencies/institutions on this project with different roles & responsibilities. Agricultural Information and Learning Resources: G B Pant University for Agriculture and Technology, Uttarakhand; University of Agricultural Sciences, Dharwad with two KVK’s in Maharashtra through the IIT Bombay network.

Purpose of the Open Access: Agricultural Research Repository is to make full text agricultural research documents visible, accessible, searchable, and useable by any potential user with access to the Internet. Searching and archiving in Open Access: Agricultural Research Repository is totally free for any user. The only requirement is that authors wishing to submit a document need to register in the system. Librarians, libraries, research institutes, organizations, and individual researchers involved in Research and related fields are encouraged to make use of and contribute to the archive.
4.3 Open Source Software for Metadata Harvesting

The Open Harvester Systems is a free metadata indexing system developed by the Public Knowledge Project through its federally funded efforts to expand and improve access to research. PKP has developed free, open source software for the management, publishing, and indexing of journals and conferences. Open Journal Systems and Open Conference Systems increase access to knowledge, improve management, and reduce publishing costs. Open Harvester systems allows the creation of centralized search services on metadata from Open Archives Initiative-compliant databases. All PKP software is available under the GNU Public License.
4.31 Open Journal System @ INFLIBNET

- INFLIBNET started Open Journal System which is a journal management and publishing system that has been developed by the Public Knowledge Project to expand and improve access to research.

![Open Journal System @ INFLIBNET Center](image)

**Figure No.67**

OpenJournal System @INFLIBNET Center

4.32 Cross Archive Search Services for Indian Repositories (CASSIR)

The CASSIR is a metadata harvesting service for Indian repositories, a project initiated by the National Centre for Science Information (NCSI) of the Indian Institute of Science (IISc) and supported by DSIR. This web-based search and browse service is a part of the ongoing project entitled 'Development of OAI-Based Institutional Research Repository Services in India'. In this service, Open Archives Initiative-Protocol for Metadata Harvesting (OAI-PMH) compliant software (PKP Harvester) harvests metadata from the registered open access repositories in India.

At present, CASSIR covers eighteen Indian open access repositories:

- Catalysis Database (ePrints@NCCR IIT Madras)
- DRS at National Institute of Oceanography
- DSpace at ICFAI BUSINESS SCHOOL (IBS), Ahmedabad
- DSpace at IIMK
- DSpace at National Chemical Laboratory, Pune, India
- DSpace at Vidyanidhi
- DSpace@DRTC
- Dspace@NITR
- DU Eprint Archive
- ePrints@IISc
- ePrints@IIT Delhi
- ETD @ Indian Institute of Science
- Indian Institute of Astrophysics
- DSpace at ISI Library, Bangalore
- NAL Institutional Repository
- OneWorld South Asia Open Archive Initiative
- OpenMED@NIC
- RRI Digital Repository

These open access repositories store a number of scholarly publications in
digital format. Thus, CASSIR serves a functionality of cross-searching of
repositories.

**Figure No.68**
*OpenJournal System @INFLIBNET Center*
4.33 The Open Index Initiative (OII)@IGIDR, Mumbai

Open Index Initiative (OII) is a collaborative effort of 16+ volunteers working in Indian social science libraries across 5+ Indian cities, with a basic objective to develop an exhaustive online database with index and abstract to journal articles, book reviews, conference papers, and working papers published in Indian social science journals or published by Indian social science institutions. The Open Index Initiative (OII) portal facilitates information on

- Forthcoming Conferences/Seminars/Workshops in India in Social Sciences and related areas.
- Indian Social Science Associations and Professional Bodies
- Search for Book Reviews
- Index to Articles of *Economic and Political Weekly* (EPW, 1992-2005)
- Index to Journal Articles
- Open Source Software and Experts
- Online Directory of Social Science Institutions
- Theses and Dissertations
- Union Catalogue of Journals
- Working Papers Online
- IGIDR OPAC (Online Public Access Catalogue)

The volunteers in this initiative contribute their data on the scholarly resources available with them. The web-based data entry module facilitates recording of data, related to:

- Experts in Open Source Software
- Index to Journal Contents
- Update the Online Directory of Libraries
- Statistical and Government Publications
- Theses and Dissertations
- Union Catalogue of Journals
4.4 Open source Integrated Library Management Software

The process of Library automation in India begins with the CDS/ISIS software developed & distributed by UNESCO. The efforts of NISSAT, New Delhi towards the promotion of CDS/ISIS resulted in the development of various modules for library automation. Now the process of Library automation in India accelerated with the availability of various Library automation software. Besides the availability of proprietary library software, academic & public libraries can not afford the cost of such software. The open source Library software is the cost effective solution for such libraries. The open source software like Koha, Evergreen, NewGenLib, e-Granthalya,etc are popular and most preferred open source software used by the libraries. With the initiatives of Kesavan Institute of Information & Knowledge Management Hyderabad, the integrated library management software i.e NewGenlib software becomes available in open source mode.NewgenLib software based on open source platform, international standard, multilingual; network version fulfills the requirement of modern library management. The initiative of National Informatics center in development of open source software resulted in e-granthalaya
software which is widely used in central government colleges, departments and in public libraries. This is the mega initiatives of NIC, Govt of India to network & modernise public library system through e granthalaya software in the country. The Koha, ILM software is very popular open source integrated library management software used in the world. In India, with the support of, Nuesoft OSS lab many institutions are using Koha software. NCSI, Bangalore, NISCAIR, Delhi is providing training on Koha library Software.

In this study, attempts have been made to assess the initiatives of Indian Libraires in using open source ILM software. The four software namely NewGenLib, Koha, e-granthalaya and CDS/ISIS software were selected. The initiative of the Libraries for this software is depicted in the following table.

Table No.15

<table>
<thead>
<tr>
<th>Type of Software</th>
<th>SOFTWARE</th>
<th>No.Of Libraries</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open source</td>
<td>NEWGENLIBRARY</td>
<td>122</td>
<td>3.05</td>
</tr>
<tr>
<td></td>
<td>KOHA</td>
<td>22</td>
<td>0.55</td>
</tr>
<tr>
<td></td>
<td>e-Granthalaya</td>
<td>244</td>
<td>6.09</td>
</tr>
<tr>
<td></td>
<td>CDS/ISIS</td>
<td>1389</td>
<td>34.69</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>1777</td>
<td>44.39</td>
</tr>
<tr>
<td>Proprietary</td>
<td>SOUL</td>
<td>2016</td>
<td>50.36</td>
</tr>
<tr>
<td>Software</td>
<td>LIBSYS</td>
<td>143</td>
<td>3.57</td>
</tr>
<tr>
<td></td>
<td>SLIM</td>
<td>67</td>
<td>1.67</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>2226</td>
<td>55.61</td>
</tr>
</tbody>
</table>

From the above table, it is seen that database management software started the process of Library automation in the country and the number of user of CDS/ISIS is 1389. E-granthalaya, an initiative of National Informatic Center is the most preferred open source ILM software used in Indian Libraries. The number of user of e-granthalaya is 244 (6.09). NewGenLib & Koha used by 122 (3.04) and 22 (0.5) users in the country. The initiatives in using Koha software is very less and needs strong support of workshop, training to motivate the libraries to adopt Koha & NewgenLib. Comparing with the proprietary software like SOUL, LIBSYS and SLIM, the users of open source library software are 44.39 %. SOUL is the most preferred ILM software used by Libraires in India. SOUL is the product of INFLIBNET and providing strong support to college & Universtiy libraries in India.
Graph. No. 5
Open source Vs Proprietary ILMS SOFTWARE.

Graph. No. 6
Cumulative Open source Vs Proprietary ILMS SOFTWARE
### Table No.16

**Comparative study of open source Integrated Library Management Software**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Koha</th>
<th>NewGenLib</th>
<th>E-Granthalay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developer</td>
<td>Katipo communication technology, Newzealand</td>
<td>Verus Solution &amp; Kesavan Institute of Information &amp; Knowledge Management</td>
<td>National Informatics Centre, India.</td>
</tr>
<tr>
<td>Year Of Development</td>
<td>1999</td>
<td>2005</td>
<td>2003</td>
</tr>
<tr>
<td>No. Of Users</td>
<td>22</td>
<td>122</td>
<td>244</td>
</tr>
<tr>
<td>Operating System</td>
<td>Linux or Windows</td>
<td>Linux or windows</td>
<td>Windows xp SP.2</td>
</tr>
<tr>
<td>Multilingual support</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Modules</td>
<td>OPAC, Catelouging, MARC-21, Circulation, Acquisition</td>
<td>OPAC, Catelouging, MARC-21, Circulation, Acquisition, Serials Management, Administration, MIS Report</td>
<td>WebOPAC, Circulation, Acquisition, Article indexing, Budget,</td>
</tr>
<tr>
<td>Software requirement</td>
<td>Perl, Apache web server 2.0, MySQL</td>
<td>J2Sdk1.4.2, JBoss3.2.1. to mcat4.1.24, PostgreSQL SQLv8.0,</td>
<td>DBMS: MS SQLServer 2005 (Stand. Ed)</td>
</tr>
</tbody>
</table>
Figure No. 70
E-granthalaya software @ Ministry of water resources Library

Figure No. 71
Koha software @ Chitkara University Library
Figure No.72
Koha software @ Library.

Figure No.73
Koha software @ Dharmaganja Project Library.
Figure No.76
Koha @ Joint Library Committee,
Bangalore

A consultation on cooperative library development was held on October 27, 1984 at Indian Institute of Management, Bangalore under the presidency of Mr. E. Brown, the then Chairman of IICN Library Committee. The importance of such consultations was well recognized and a joint committee was formed under the chairmanship of Mr. E. Brown with the expectation of professional and public libraries in the field of cooperative libraries being able to assess the results of such consultations.

The Joint Library Committee, Bangalore

Over the years, JLC has earned remarkable achievements in its own credit. The need to formulate guidelines for the future course of action has led to several meetings of this committee. A project for the identification of the most effective medium of communication was undertaken. The major achievements of the committee include:

1. Development of guidelines for the future course of action
2. Identification of the most effective medium of communication

The committee met on 14 September 2002 at IICN and formulated a draft proposal. This proposal was presented at the JLC meeting held on 23 November 2002 at IICN. The members endorsed it with some modifications.

An additional comment, under the leadership of Dr. Matthew Rathore, I.A.C., was the final formulation to the Constitution and By-laws of the JLC, Bangalore.

Figure No.77
Koha @ ICSSR, Shilong Library.

A consultation on cooperative library development was held on October 27, 1984 at Indian Institute of Management, Bangalore under the presidency of Mr. E. Brown, the then Chairman of IICN Library Committee. The importance of such consultations was well recognized and a joint committee was formed under the chairmanship of Mr. E. Brown with the expectation of professional and public libraries in the field of cooperative libraries being able to assess the results of such consultations.

A joint committee of libraries of co-operating institutions was constituted at that meeting and decided to meet twice a year. The committee would be known as "The Joint Library Committee".

Over the years, JLC has earned remarkable achievements. The need to formulate guidelines for the future course of action has led to several meetings of this committee. A project for the identification of the most effective medium of communication was undertaken. The major achievements of the committee include:

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实施者 by

SANT GADGE BABA AMRAVATI UNIVERSITY LIBRARY
4.5 Open Source Database Management Software

Use of CDS/ISIS in India:

The CDS/ISIS users in the country are mainly concentrated in North India with Delhi alone accounting for about 22% of the users. The second largest numbers of users are in the Southern states. In the Western region, Maharashtra alone accounted for 16.1% of the total users. The region wise distribution is given in the following table.

Table No.17
Regionwise users of CDS/ISIS.

<table>
<thead>
<tr>
<th>REGION</th>
<th>NO.OF USER</th>
<th>PERCENTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORTH</td>
<td>595</td>
<td>42.8</td>
</tr>
<tr>
<td>SOUTH</td>
<td>373</td>
<td>26.9</td>
</tr>
<tr>
<td>WEST</td>
<td>299</td>
<td>21.5</td>
</tr>
<tr>
<td>NORTH EAST</td>
<td>27</td>
<td>2.0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1389</td>
<td>100</td>
</tr>
</tbody>
</table>

Graph No.17 - Regionwise users of CDS/ISIS

![Regionwise users of CDS/ISIS graph]
PROFILE OF USER INSTITUTIONS:

The CDS/ISIS users belong to variety of institutions involved in a wide spectrum of activities. The most common users (42.5) are academic institutions, both government and private, engaged in regular educational activities. Scientific and R&D institutions and other government agencies accounted for the next largest share of the users (35.8%). The private industries and associations constituted only about 10.6 % of the users. The detailed break-up is given in following table.

Table No.18
Institutional users of CDS/ISIS.

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Type of Institution</th>
<th>No. of users</th>
<th>percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Scientific Institutions &amp; Labs</td>
<td>243</td>
<td>17.5</td>
</tr>
<tr>
<td>2</td>
<td>Govt. Agencies</td>
<td>254</td>
<td>18.3</td>
</tr>
<tr>
<td>3</td>
<td>Academic Institutions</td>
<td>590</td>
<td>42.5</td>
</tr>
<tr>
<td>4</td>
<td>Private Organisation</td>
<td>147</td>
<td>10.6</td>
</tr>
<tr>
<td>5</td>
<td>NGO</td>
<td>79</td>
<td>5.7</td>
</tr>
<tr>
<td>6</td>
<td>International Agencies</td>
<td>13</td>
<td>0.9</td>
</tr>
<tr>
<td>7</td>
<td>Other</td>
<td>63</td>
<td>4.5</td>
</tr>
<tr>
<td>8</td>
<td>Total</td>
<td>1389</td>
<td>100</td>
</tr>
</tbody>
</table>

Graph No.8  CDS/ISIS USERS

![Graph showing the number of users by type of institution]
TYPES OF APPLICATIONS

CDS/ISIS is mostly used database management software for the development of bibliographic database. Besides these, the advanced users used the software for other library activities like acquisition, budgeting, circulation, cataloging, serials control, SDI etc. According to the report of NISSAT ( ), about 90% of the institutions, which received, the packages are actually using the same for various applications. An analysis of the users indicates that about 63.7% of them use the package for bibliographic purposes and 62.1 use the same for cataloguing/indexing services. About 24.7% of the users also use the package for current awareness. On an average, the institutions are using the package for more than two applications. The details are given below.

TABLE NO. 19
TYPES OF APPLICATION.

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>APPLICATIONS</th>
<th>PERCENTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ACQUISITION</td>
<td>16.5</td>
</tr>
<tr>
<td>2</td>
<td>BIBLIOGRAPHY</td>
<td>63.7</td>
</tr>
<tr>
<td>3</td>
<td>BUDGETING</td>
<td>4.4</td>
</tr>
<tr>
<td>4</td>
<td>CATALOGUING/INDEXING</td>
<td>62.1</td>
</tr>
<tr>
<td>5</td>
<td>CIRCULATION</td>
<td>6.1</td>
</tr>
<tr>
<td>6</td>
<td>CURRENT AWARENESS</td>
<td>24.7</td>
</tr>
<tr>
<td>7</td>
<td>SERIAL CONTROL</td>
<td>11.5</td>
</tr>
<tr>
<td>8</td>
<td>SDI</td>
<td>9.3</td>
</tr>
<tr>
<td>9</td>
<td>UNION CATALOGUE</td>
<td>8.2</td>
</tr>
<tr>
<td>10</td>
<td>OTHERS</td>
<td>14.8</td>
</tr>
</tbody>
</table>
The open source initiatives in Indian libraries is increasing. The research institute of National importance is leading in using open source software. The open source software in the area of digital library, Integrated library management software, database management software, Metadata harvestor system and content management software are being used by the libraries. The open source software minimize the dependency of libraries on proprietary softwares and also economical than proprietary software.

The open source initiatives in higher education institute are very less as compared to the wide network of Indian higher education setup. The initiatives of UGC, MHRD is needed to promote open source movement in higher education by introducing open source software in the curriculum, introduction of open source in national policy of higher education and establishing centers to train the human resources in open source software.