Annual Report

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Information & Library Network Centre

An IUC of University Grants Commission

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From the Director's Desk



The academic libraries around the globe are confronting continuous flux of changes in new information technology that finds its application in libraries. The first Automation Age in libraries began in 1970s with introduction of integrated library automation packages. Mini-computers were used in the libraries to computerize operations like circulation, acquisition, cataloguing, serials and Library OPAC. The trend picked-up in early 1980s with introduction of PCs at a cost affordable to the libraries. The computerized catalogues of individual libraries led to formation of union catalogues

through library networks like OCLC that were developed to facilitate online and copy cataloguing and resource sharing. In India, the library network started in late 1980s with setting-up of Metropolitan Library Networks like DELNET, CALIBNET, ADINET, BONET, MYLIBNET, MALIBNET, etc. The INFLIBNET was also initiated in 1991. While all the networks did promote resource sharing, none of the union catalogues by these networks were designed to facilitate online or copy cataloguing. Nobody missed these features in late 1980s or early 1990s because of lack of network infrastructure required to use these features. As on date, however, the technology to incorporate these features is available and libraries have access to network infrastructure to use them. All we need is a strong desire to make it happen. The INFLIBENT Centre has a lot of catching-up to do in this regard.

The second Automation Age in libraries commenced in early 1980s and is characterized by accessibility of library OPACs, union databases and online search services, like DIALOG, ORBIT, BRS and Datastar in USA; BLAISE and Pergamon Infoline in UK; DIMDI in Germany; Euronet and Diane in Europe; ESA-IRS in Italy; and CAN/OLE in Canada, etc. to the research community. Several libraries had established facilities to search DIALOG, STN and other online search services in India, although the data communication facilities in India were very poor at that time. The NISSAT established eleven NACIDS (National Access Centres to International Database Services) facilities in different cities of India for providing online access facilities to international databases to researchers. The second Automation Age has graduated to the third and fourth automation age.

The third Automation Age arrived in late 1980s with print content going electronic on CD ROM and made available to libraries at an affordable cost. Most of the bibliographic databases that were accessible through the online search services like DIALOG and STN became available

on CD ROM. Moreover, solution for CD ROM networking became available facilitating access of contents on CD ROM on the Campus networks. With popularity of Web-based products and interfaces, several producers have discontinued their CD ROM versions of their databases.

We are currently in the fourth Automation Age characterized by emphasis on web-based fulltext resources rather than on bibliographic databases. While searching bibliographic databases became popular, it created demand for actual content in full-text that, many a times, were difficult for libraries to obtain, causing frustrations in users. Coincided with evolution of World Wide Web (WWW), display technology evolved, cost of storage came down drastically and networks became faster. It became possible for publishers to deliver content, either as a bitmap page images or other structured formats such as HTML, PDF or RTF. Increasingly larger number of publishers are using the Internet as a global way to offer their publications to the international community of scientists and technologists given the fact that technology is in a position to deliver more content to more users at a significantly lower cost per user. These new technologies are continuously driving the library resources to new peaks of usage, significantly beyond the library's subscribed content. The library and information centres, as heavy consumers of electronic journals and online databases, stand to benefit greatly from this technology-driven revolution. The libraries with their diminishing or at the best static financial allocations have to consider new ways to consolidate global resources amongst them in order to maximize their limited financial resources. The combination of these developments has resulted in development of "Consortia-based subscription" to journals everywhere in the world.

The UGC-Infonet Connectivity and Digital Library Consortium is one such bold steps in India in this direction. The two projects have helped the INFLIBNET Centre to introduce new technology and new resources in the universities. With influx of more resources and services, the INFLIBNET strives to fulfil all information requirements of its academic community with improved infrastructure and facilities.

The Consortium and activities related to it would take a central stage for INFLIBNET given the fact that the mode of cooperation has gone under a transformation with migration from print-based environment to digital environment, we would ensure that our projects of Union Catalogues (Books, Serials and Ph.D. theses) do not take a back seat. Moreover, the INFLIBNET would take additional projects and responsibilities in emerging areas like open access publishing, digital libraries, ETD, etc.

I am pleased to present the Annual Report of the Centre for the Financial Year 2006 – 2007. The credit for achievements made during the year under report goes to my colleagues and the former Director(s) who had done their best in spite of severe limitations in terms of manpower and infrastructure. However, I have an elaborate agenda that has been laid-out for me by my predecessors to accomplish in years to come.

(Jagdish Arora)
Director

1. Introduction

The Information and Library Network (INFLIBNET) is an autonomous Inter-University Centre (IUC) of the University Grants Commission (UGC) located at the Gujarat University Campus, Ahmedabad. Major activities and services of the Centre are geared towards modernization of academic libraries and information centres, to promote information transfer and access, to support scholarship, learning and academic pursuits. The Centre acts as a nodal agency for networking of libraries and information centres in universities, institutions of higher learning and R & D institutions in India. The Centre was established as an independent autonomous Inter-University Centre (IUC) of UGC in May 1996 and set out to be a major player for promoting scholarly communication among academicians and researchers across the country.

The technology being a driving force in the contemporary education system, the UGC had taken-up two major initiatives for academic community in universities under its purview. The first intitiative, namely "UGC-Infonet Connectivity Programme" provides for networking of university campuses with state-of-the-art campus wide networks and Internet bandwidth, the second initiative called the "UGC-Infonet Digital Library Consortium" provides access to selected scholarly electronic journals and databases in different disciplines. The INFLIBNET is responsible for execution and monitoring of both the initiatives.

2. Objectives

The objectives of the Centre are as follows:

- a) To promote and establish communication facilitates to improve capability in information transfer and access that provide support to scholarship, learning, research and academic pursuits through cooperation and involvement of concerned agencies;
- To establish information and library network a computer communication network for linking libraries and information centres in universities, deemed to be universities, colleges, UGC information centres, institutions of national importance and R&D institutions, etc. avoiding duplication of efforts;
 - to promote and implement computerization of operations and services in the libraries and information centres of the country, following a uniform standard;
 - to evolve standards and uniform guidelines in techniques, methods, procedures, computer hardware and software, services and promote their adoption in actual practice by all libraries, in order to facilitate pooling, sharing and exchange of information towards optimal use of resources and facilities;
 - iii) to evolve a national network interconnecting various libraries and information centres in the country and to improve capability in information handling and service;

- iv) to provide reliable access to document collection of libraries by creating on-line union catalogue of serials, theses/ dissertations, books, monographs and non-book materials (manuscripts, audio-visuals, computer data, multimedia, etc.) in various libraries in India:
- to provide access to bibliographic information sources with citations, abstracts, etc.
 through indigenously created databases of the Sectoral Information Centres of NISSAT,
 UGC Information Centres, City Networks and such others and by establishing gateways
 for on-line accessing of national and international databases held by the national and
 international information networks and centres respectively;
- vi) to develop new methods and techniques for archiving of valuable information available as manuscripts and information documents in difference Indian languages, in the form of digital images using high density storage media;
- vii) to optimize information resource utilization through shared cataloguing, inter-library loan service, catalogue production, collection development and thus avoiding duplication in acquisition to the extent possible;
- viii) to enable the users dispersed all over the country, irrespective of location and distance, to have access to information regarding serials, theses/dissertation, books, monographic and non-book materials by locating the sources wherever available and to obtain it through the facilities of the INFLIBNET and union catalogues of documents;
- ix) to create databases of projects, institutions, specialists, etc. for providing online information services;
- x) to encourage co-operation among libraries, documentation centres and information centres in the country, so that the resources can be pooled for the benefit of helping the weaker resource centres by stronger ones; and
- xi) to train and develop human resources in the field of computerized library operations and networking to establish, manage and sustain INFLIBNET.
- To facilitate academic communication amongst scientists, engineers, social scientists, academicians, faculty, researchers and students through electronic mail, file transfer, computer/audio/video conferencing, etc;
- d) To undertake system design and studies in the field of communications, computer networking, information handling and data management;
- e) To establish appropriate control and monitoring system for the communication network and organize maintenance;

- f) To collaborate with institutions, libraries, information centres and other organizations in India and abroad in the field relevant to the objectives of the Centre;
- g) To promote R&D and develop necessary facilities and to create technical positions for realizing the objectives of the Centre;
- h) To generate revenue by providing consultancies and information services; and
- i) To do all other such things as may be necessary, incidental or conducive to the attainment of all or any of the above mentioned objectives.

3. Physical Infrastructure

The INFLIBNET Centre is located at the Gujarat University Campus since 1992. Three buildings of residential blocks of the Gujarat University have been hired on lease for accommodating INFLIBNET offices and laboratories.

Recently, the Govt. of Gujarat has allotted a piece of land measuring 10,000 sq. mtrs (approx. 2.5 acres) free-of-cost to the UGC for constructing permanent building of the INFLIBNET Centre at Infocity, Gadhinagar. The Centre has taken possession of the land on 31st May, 2007 and fencing of plot allocated to the Centre has been done. The Centre has projected an estimated cost of Rs. 15 crores for its construction during the financial years 2007–2008 and 2008-2009. The land is located in the Infocity, Gandhinagar amidst reputed educational institutions such as NID, DAIIT and NIFT. The process of selection of architect / architectural firm has been initiated.

4. Governance

The Centre is governed by its Governing Board and Governing Council. The Finance Committee, a sub committee of the Governing Board, looks after the financial aspects of the Centre. Constitution and major responsibilities of these three committees are described below:

4.1. Governing Council

Governing Council is the apex body of the Centre chaired by its President, ex-officio Chairman of the UGC. The Council has 7 ex-officio members and three nominated members. The members of the Governing Board are also members of the Council, as such total number of the members of the Council is 21. The nominated members of the Council serve for a term of 3 years. The Director, INFLIBNET is the Member-Secretary of the Council. The Council meets once in a year. The present members of the governing council are listed in Appendix I.

4.2. Governing Board

Governing Board (GB) manages, administers, directs and controls the affairs of the Centre as per Rules and Bye-laws of the Centre. The Governing Body is headed by a Chairperson, who is an eminent academician in the areas of relevance to the Centre and is appointed by the President of the Council. The Governing Body has 6 ex-officio members and 7 nominated members who are nominated by the Chairman, UGC. The Director, INFLIBNET is the Member-Secretary of the Board. It meets at least two times a year. The current members of the Governing Board are listed in Appendix II.

4.3. Finance Committee

The Finance Committee (FC) is a sub-committee of the Governing Board and consists of 8 members. It has 6 ex-officio members and 2 nominated members. The Chairman of the Governing Board is the Chairman of the Finance Committee also. The Administrative / Accounts Officer of the Centre is the Non-member Secretary of the Finance Committee. The Finance Committee makes recommendations to the Governing Board on i) Budget proposals of the Centre; ii) Scrutiny of the Audited Accounts and replies to the annual Audited Report; iii) Approval of sanctioned and additional positions; and iv) any other matter on which the Governing Board seeks its recommendations. The Finance Committee meets at least once a year. The minutes of the Finance Committee, after approval by the Governing Board are forwarded to the UGC for examination, approval and release of grants to the Centre. The members of the current Finance Committee are listed in Appendix III.

5. Human Resources

The Centre employs personnel with qualifications in computer science and library & information science to achieve its defined objectives. A list of technical, administrative and supporting staff of the Centre is given in Appendix IV.

6. Scientific and Technical Activities

Major scientific and technical activities of the Centre are as follows:

6.1 Union Databases

The Centre since its inception took initiatives of building union catalogues of library resources available in university libraries in India. These databases contain bibliographic records of books, serials and theses on all subject areas available in participating universities. The INFLIBNET

databases are compiled by gathering bibliographic records from 142 participating universities in different formats that are merged into a single union database with each record having information about holding universities. The databases are made accessible free-of-cost through web-based search interfaces developed in-house through the Centre's Web site at http://www.inflibnet.ac.in. Major union databases and number of records in each of them is as follows:

Name of the Database	No. of Records
Books	75,46,314
Theses	1,75,206
Current Serials	13,881
Serials (Unique)	14,500
Serials (Holdings)	50,164
Subject Experts (University)	15,500
Subject Experts (NISSAT)	14,000

6.1.1. Union Books Database

The Union Books Database contains bibliographic records of text books, specialized subject books, reference materials, technical notes, annual reports, and manuscripts, etc that are available in participating university libraries. The Union database of books contains a total no. of 75,46,314 records including 55,88,420 records that are unique. List of universities and number of records contributed by them are listed in Appendix V. Screen shot of union catalogue of books is given below (Fig.1):

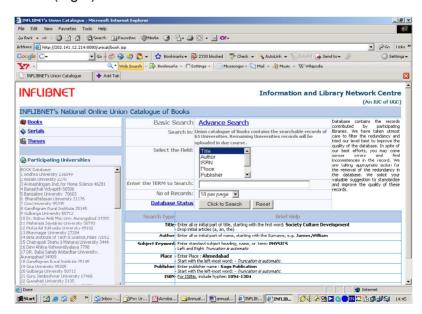


Fig.1: Screen Shot of Search Interface of the Books Database

6.1.2. Serials

Two separate databases are maitained on serials being received in participating university libraries, namely Serials Holding Database and Current Serials Database.

a) Serials Holdings Database

This Serial Holdings Database includes bibliographic information of serials (including journals, periodicals, annuals, serials) available in more than 89 university / Institute libraries along with its holding information, i.e. volumes of journals that are available (as well as those that are missing) in respective libraries. The holding database has over 14,500 unique titles with 50,164 holdings information for 89 universities. Minimum bibliographic information along with holdings details and university name is provided for each record. List of the universities and the number of records contributed by them are listed in the Appendix VI. Screen shot (Fig.2) of Serial Holdings database is given below.

b) Current Serials

The Union database of current serials (including journals, periodicals, annuals, serials) covers 13,881 unique titles subscribed by more than 200 university / institute libraries. This database provides journal titles with brief bibliographic information along with the names of subscribing library.

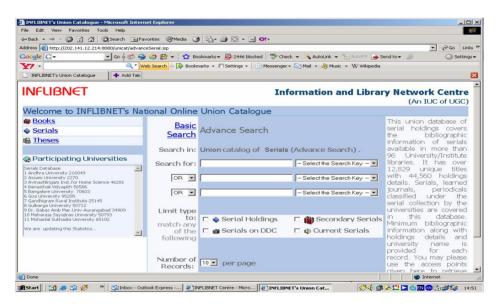


Fig. 2: Screen Shot of the Advanced Search Interface of Serials Database

6.1.3. Theses

The theses union database covers bibliographic details of doctoral theses submitted to more than 200 universities / institutions in India. It has over 1,75,206 unique records in all subject areas from 1906 onwards. The bibliographic records of theses are contributed by participating

universities and have also been collected from other reliable sources such as university announcements, University News, etc.

Project on Union Database of Theses was taken-up in 1995 with 52,000 records from 82 universities. The database grew to 1,75,206 records from 213 universities in 2006 over a period of 12 years. The Table 1 and Figure 3 given below depict growth of theses database over a period of 12 years, i.e. 1995 to 2006. Figure 4 is a screen shot of display of record from theses database.

Year	No of Universities/Institutions	No of Records
1995	82	52,000
1996	95	65,000
1997	110	72,000
1998	134	90,000
1999	149	1,15,000
2000	160	1,28,000
2001	172	1,35,000
2002	189	1,42,000
2003	198	1,48,000
2004	209	1,52,000
2005	211	1,71,176
2006	213	1,75,206

Table 1: Growth in No. of Records in Theses Database: 1995 - 2006

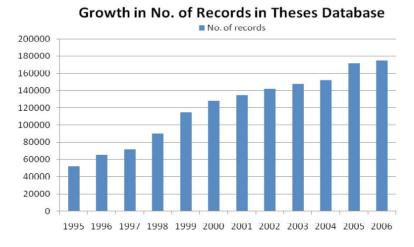


Fig. 3: Growth in No. of Records in Theses Database from 1995 to 2006

Theses records can be searched on different fields like title, researcher, guide, university, department, submission year, subject headings, etc. List of the universities and the number of records contributed by them to the theses database is given in the Appendix VII.

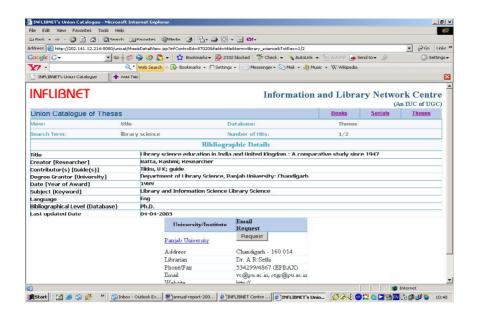


Fig.4: Display of a Record from the Theses Database

6.1.4. Experts Database

The Subject Experts Database is a collection of profiles of experts of individuals in India contributing to the research and academic world and are working in universities, colleges, institutions and R&D organizations. The records in database contain important information on experts such as their background, contact address, achievements, awards, skills and accomplishments, projects handled and publications, etc. The Centre maintains two subject experts databases, namely "NISSAT Experts Database" and "University Experts Database".

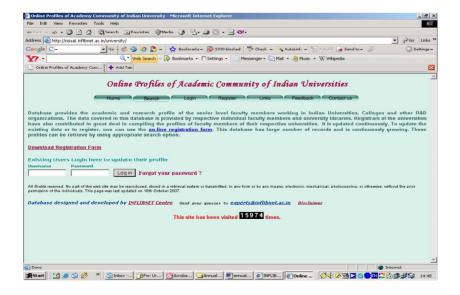


Fig. 5: Screen Shot of Experts Database

The "NISSAT Experts Database", accessible at http://nissat.inflibnet.ac.in, contains 14,000 records, was developed under a two-years project funded by the NISSAT, New Delhi from 2001 to 2002. The second database called "University Experts Database", is an initiative of the Centre that commenced in 1999. The database has 15,500 records and can be accessed at http://nissat.inflibnet.ac.in/university. Figure 5 is the screen shot of the Expert database.

6.2. Software Development

The Centre is involved in development of software based on functional requirements, day-to-day activities and services of the Centre. Two groups of the Centre i.e. Software R&D Group and Database R&D Group are involved in the software development activities. Database R&D Group has developed software applications and utilities for activities and routines that are prerequisites in the process of making union catalogues. These utilities and applications are:

- a) Data Reformatting: Facilitates reformating of fields and sub-fields of bibliographic data received from the universities so as to import it into union catalogues;
- **b) Data Exporting**: Exporting data from the SOUL software or from Union Catalogues into any prevelant format;
- c) Duplicate Checking: Check duplicates within the university records; and
- **d) De-duplication**: check duplicates in the union catalogues, delete duplicate record and add holding details in unique record.

These applications and utilities are deployed to reformat bibliographic records of books, journals and theses received from various universities so as to merge them into the union catalogues of books, journals and theses, respectively. The Database R & D Group has also developed web-based search and browse interfaces for these union catalogues.

6.2.1. SOUL Software

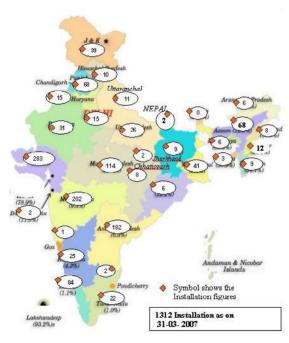
The Software R&D Group was established for developing an integrated library management software suitable for libraries of colleges and universities so as to support library automation across the country and for providing need-based support and solution to user community as well as to the centre's activities. In the initial stages of development, a software called ILMS (Integrated Library Management System) was developed and distributed free-of-cost to the universities and colleges essentially to create a culture of using computers in libraries and for making librarians computer literate. ILMS and CDS/ISIS (developed by UNESCO) were successfully used for the purpose of making librarians computer literate.

The SOUL software is a state-of-the-art library management software desgined to automate all the functions of the library through its six integrated modules, i.e. Acquisition, Cataloguing, Circulation, Serials Control, OPAC and Administration. It is windows-based software working

on client-server architecture. The software uses MS-SQL as back-end database. It adheres to the international standards for bibliographic formats such as MARC21, CCF and AACR2 for rendering of records, etc. Some of the special features of the SOUL software are as follows:

- i) Web-based OPAC:
- ii) Barcode generation facility for books as well as for patrons;
- iii) User's friendly search interface;
- iv) Automatic report generation facilities for all modules;
- v) Multi-lingual support;
- vi) Hardware lock or "dongle" to check unauthorized copying of the software;
- vii) Country-wide after-sales support to users;
- viii) Regular training programmes at the Centre as well as in other parts of the country;
- ix) A large user-base consisting of more than 1400 installations;
- x) Institutional commitment and support for regular development, maintenance and updation; and
- xi) Need-based customization.

The software has more than 1312 installations including several large academic and public



libraries of the country. Under the special scheme directed by the Prime minister office (PMO) of the country, the software was installed in several colleges in Jammu & Kashmir and North Eastern States. The Centre has established region-wise SOUL Support Service Units at four different places i.e. Mumbai, Ahmedabad, Delhi and Trivendrum for providing the continuous support to the users of the SOUL software. The state-wise list of the SOUL installation is given in the appendix VIII. The Centre provides five-days training programme specially design to impart training on installation and implementation of SOUL software to new users. Figure 6 depicts state-wise distribution of SOUL software as on 31st March 2007

Fig. 6: State-wise Distribution of SOUL Software as on 31st March, 2007

6.2.2. Search and Browse Interfaces for Union Databases.

The Database R & D Group is responsible for developing search and browse interfaces for the union databases of books, serials, theses and experts described above. These interfaces provide a visual window for users to search and browse relevant information stored in union databases and display it. While the browse interface facilitates users to explore bibliographic information stored in union databases alphabetically by subject category or by name of the universtiy or chronologically by years, the search interface facilitates exploration of union databases by keywords, word in title, name of author or editor, etc. Most search interfaces for the union database support searching with varying degree of capabilities ranging from "simple search" to "advanced search".

6.3. Bibliographic Standards, Formats and Protocols

Bibliographic Standards and Protocols are backbone of any bibliographic databases. The standard and protocol streamlines the implementation of activities, provides utmost quality, consistency and most importantly facilitates interoperability, data transfer and exchange.

Uniform standards and protocols are pre-requisite for data transfer, exchange and for merging records in union catalogues which is one of the primary functions of the Centre. Although, the Centre was earlier using and promoting CCF (Common Communication Format), developed by UNESCO, it has now moved to MARC21 format since it is widely used and has institutional support for its further growth. Accordingly, steps were initiated at the Centre to come out with suitable standards and formats based on MARC21. An Expert Committee was set-up to recommend essential fields to be used for data entry using MARC21. Each participating library has been advised to implement MARC21 conforming to essential elements identified by the Centre. These standards have been made available on the INFLIBNET website at http://www.inflibnet.ac.in/publication.htm. Some of the guidelines prepared by the Centre such as "Guidelines for Data Capturing: a user manual" and "SOUL Guidelines for Data Capturing: a user manual" are also available online to the libraries. The other standards recommended to the participating libraries are:

- ➤ Anglo American Cataloguing Rules 2 (Rev.)
- ➤ Library of Congress Subject Headings

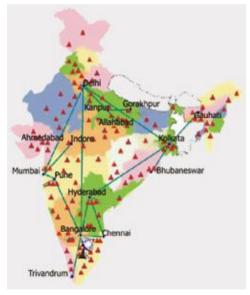
The Centre participates in the activities of NISO (http://www.niso.org), the National Information Standards Organization as its member. The NISO is a non-profit association accredited by the American National Standards Institute (ANSI), which identifies, develops, maintains, and publishes technical standards to manage information in the digital environment. NISO standards apply both traditional and new technologies to the full range of information related needs, including retrieval, re-purposing, storage, metadata and preservation. Various leaders of the

organizations in the fields of publishing, libraries, IT and media serve as Voting and Alliance Members to the NISO. The INFLIBNET is one of the organizations, approved by the NISO Board of Directors, as a Voting Member. The NISO is also closely associated with the Technical Committee 46 of the International Organization for Standardization.

The Centre is closely associated with the Technical Committee MSD5 on Documentation and Management of Bureau of Indian Standards, New Delhi (http://www.bis.org.in) at the national level.

6.4. UGC-Infonet Internet Connectivity Programme

The technology being a driving force in the contemporary education system, the UGC has taken-up the task of networking university campuses with the state-of-the-art campus wide networks under the UGC-Infonet Connectivity Programme. The programme was launched in 2002 by Shri Atal Bihari Bajpai, the then Hon'ble Prime Minister of India to bring about a qualitative change in the academic infrastructure, especially for higher education. The INFLIBNET is responsible for executing and monitoring the entire project.



So far, 149 universities distributed across the country have been provided Internet bandwidth ranging from 256 Kbps to 2 Mbps using Broadband LL / SCPC / DAMA / FTDMA / RF Open Network Architecture. The task of establishing and maintaining the entire network for the universities is being done by the ERNET India on turn-key basis. The UGC-Infonet is based on open IP platform, employing state-of-the-art technologies like IP Multicast, TCP Spoofing and other Internet tools that provide interactive education on PC or TV, enabling on-line response to queries. Open systems architecture ensures support for current and future applications. Users from Educational Institutions are enjoying high data rates while accessing Intranet and Internet resources.

Fig.7: ERNET's Points of Presence (PoP)
Centres and Distribution of Universities Across the Country

Each participating university has signed the quadripartite agreements with UGC, INFLIBNET and ERNET. The entire project is funded by the UGC with 90% on capital investment and 100% of recurring bandwidth charges. A Joint Technical Tariff Committee (JTTC), renamed as Central Connectivity Monitoring Committee (CCMC) consisting of leading experts in the country was set up to guide and monitor the design, implementation and operations of the project. The INFLIBNET plays an important role of monitoring and liaisoning between ERNET

and the universities. The ERNET, in collaboration with the INFLIBNET, imparts training to network and system administrators of universities for managing the campus networks and equipment. 137 participants from 129 universities has been trained so far.

Bandwidth offered to universities under the programme through ERNET varies from 256 Kbps to 2 Mbps depending on the location of universities and technical feasibility. The Figure 8 given below depicts types of connectivity and bandwidth available to universities.

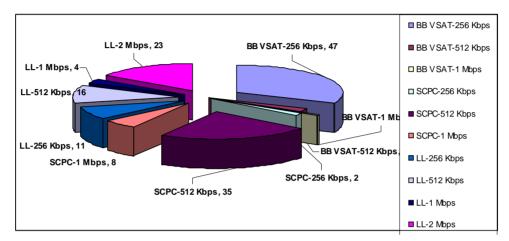


Fig. 8: Bandwidth available to Universities and Technology Deployed for Providing Connectivity

LL - Leased Line VSAT - Very Small Aperture Terminal SCPC - Single Channel Per Carrier VSAT BB - Broad Band VSAT

As per the decision taken by the CCMC, connectivity for all universities is being up-graded to 2 Mbps depending upon the technical feasibility. Universities that are provided Internet connectivity under the UGC-Infonet programme are listed in Appendix IX.

6.5. UGC-Infonet Digital Library Consortium

The UGC-Infonet Digital Library Consortium was formally launched in December, 2003 by Honourable Dr. A P J Abdul Kalam, the then President of India., soon after providing the Internet connectivity to the universities in the year 2003 under the UGC-Infonet programme. The Consortium proved to be a recipe to university libraries which have been discontinuing subscription of scholarly journals because of "Serials Crisis". The term "serials crisis" refers to exponential and continuing increase in subscription cost of scholarly journals. The crisis is a result of rise in cost of journals much faster than the rate of inflation, increase in number of journals and the paucity of funds available to the libraries.

The Consortium provides current as well as archival access to more than 4,500 core and peer-reviewed journals and nine bibliographic databases from 23 publishers and aggregators in different disciplines. The programme has been implemented in a phased manner. In the first phase that began in 2004, access to e-resources was provided to 50 universities who had Internet connectivity under the UGC-Infonet Connectivity programme of the UGC. In the second phase, 50 more universities were added to the programme in the year 2005. So far 120 Universities out of 171 that come under the purview of UGC, have been provided differential access to subscribed e-resources. These e-resources covers almost all subject disciplines including arts, humanities, social sciences, physical sciences, chemical sciences, life sciences, computer sciences, mathematics and statistics, etc. The programme is wholly funded by the UGC and executed by the INFLIBNET Centre.

The benefit of subscription to e-resources would also be extended to the colleges, to begin with the College for Potential with Excellence (CPE). The Consortium also plans to launch its "Associate Membership Programme" wherein private universities and other research organizations would be welcomed to join the Consortium for selected e-resources.

6.5.1. Objectives

The major aims and objectives of the UGC-Infonet Digital Library Consortium are as follows:

- ➤ to subscribe electronic resources for the universities at a highly discounted rates of subscription and at the best terms and conditions;
- > to extend the benefit of consortium-based subscription to all Indian universities and colleges;
- > to extend the benefit of consortium to associate members of this Consortium;
- ➤ to impart training to the users, librarians, research scholars and faculty members of the institutions on the electronic resources with an aim to optimize their usage;
- to increase interaction amongst the member libraries;
- ➤ to increase the research productivity of the institutions both in terms of quality and quantity of publications;
- > to evaluate the usage of the resources subscribed; and
- ➤ to identify new resources that are required to be subscribed under the programme based on the availability of resources and funds.

6.5.2. Current Status

Differential access to more than 4,500 scholarly journals and nine bibliographic databases from 23 major publishers and aggregators are offered to more than 120 universities. Besides access to their current issues, most journals are available with their archives from 1997 onwards. Some of the publishers like American Chemical Society, Institute of Physics, and JSTOR provide access from Vol.1 onwards. The publishers, aggregators along with number of e-journals and their URLs are given in Appendix X.

6.5.3. Economics of UGC-Infonet E-Journals Consortium

The factors that determine economic viability and cost-effectiveness of consortia-based subscription to e-resources are: its intensity of usage in terms of number of downloads of articles, successful migration from print to electronic version (with discontinuation of print) and cost avoidance. These factors are discussed below in detail.

The Consortium, with its collective strength of participating institutions, has attracted highly discounted rates of subscription coupled with most favourable terms of agreement. In effect, the members of the consortium avoid the cost commitments on the following account:

a) Lower Rates of Subscription

The rates offered to the Consortium are lower by 50% to 90%. The Consortium was offered lower rates of subscription from the vendors not only because of combined strength of its members, but also due to the eagerness of publishers to enter the Indian market.

b) Cost Avoidance

Cost avoidance on account of lower rates of subscription for the members of the Consortium, is calculated in terms of difference between cost paid by the Consortium for its member institutions for e-resources and its list price, i.e., payable by individual institutions in case the resources were subscribed by them on their own on the list price. The Ttable 2 and Figure 9 given below depicts that there is a savings of Rs. 113.20 crores in 2004, Rs. 231 crores in 2005 and 278.88 crores during 2006 with overall figure of Rs. 623 crores (approx.) given the fact that the same resources on list price would have costed Rs. 130 crores, 257 crores and 307 crores as against Rs. 16.19 crores, 25.92 crores and 28.86 crores for the year 2004, 2005 and 2006 respectively.

SI.		No. of	No. of	List Price	Consortia Price	Savings
No.	Year	Publishers	Universities	in Rupees	in Rupees	in Rupees
1.	2004	16	50	130,11,19,000	16,30,28,942	113,80,90,058
2.	2005	25	100	257,04,10,204	25,92,25,915	231,11,84,289
3.	2006	22	100	307,73,89,843	28,85,87,022	278,88,02,821
4.	Total:			694,89,19,047	71,08,41,879	623,80,77,168

Table 2: Cost Avoidance: List Price V/s Consortium Price for the Year 2004 to 2006

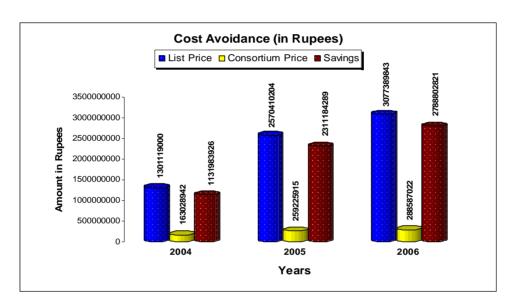


Fig. 9: Cost Avoidance: List price v/s Consortium price

c) Annual Increase in Rates of Subscription

Members of the Consortium have the benefit of cap on the annual increase in the rates of subscription for e-resources. While the usual increase in price of e-resources vary from 10 to 15%, members of the Consortium enjoy the cap on increase in price ranging from 4.5% to 6%.

d) Intensity of Usage: Cost Recovery

The recovery of cost incurred on e-resources subscribed through the Consortium can be judged in terms of intensity of usage of resources. Most publishers maintain detailed usage statistics for resources offered by them to the Consortium. The Consortium obtains comparative usage statistics for member institutions from the publishers. The statistics collected by the Consortium is made accessible to the users through the INFLIBNET website.

The cost recovery is calculated on the presumption that if the electronic resources were not available through the Consortium, articles downloaded from these resources by the member institutions would have been sourced on inter-library loan / document delivery at a cost of US

\$ 15.00 per article. (Average cost of article taken from a study conducted by the American Research Libraries (ARL). As is evident from the Figure 10 given below, the Consortium has recovered the cost incurred on subscription for all e-resources except for journals published by the Cambridge University Press.

The total cost that has been recovered amounts to Rs. 140.26 crores as against the total expenditure of Rs. 25.79 crores with Rs. 140.26 crores as the cost of articles downloaded in excess. Overall, the Consortium has recovered 643.89% of the total amount spent on subscription of various resources. The JSTOR has recorded maximum usage in terms of cost of articles downloaded. The recovery factor in case of JSTOR works out to be 2666.93% of the actual amount spent on its subscription.

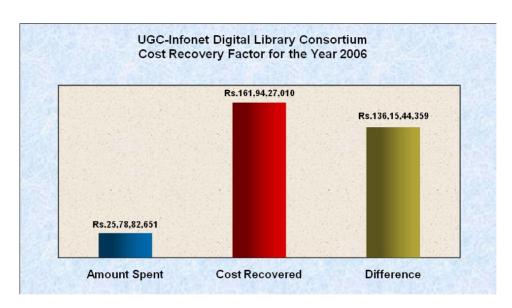


Fig. 10: Cost recovery V/s Cost Incurred for the Year 2006

e) Average Cost of an Article / Record

The average cost of a full-text article varies from Rs. 24.94 (in case of JSTOR) to Rs. 775.43 (in case of Cambridge University Press) as shown in the Table 3 given below. The average cost of article is for the Consortium is Rs. 107.16.

E-resource	Average Cost per Article	
	in Rupees	
JSTOR	24.94	
Encyclopaedia Britannica	48.36	
Oxford University Press	54.91	
American Chemical Society	55.64	

Taylor and Francis	66.50
Nature	77.29
American Inst. of Physics / American Physical Society	81.51
Blackwell	101.15
Annual Reviews	103.55
SciFinder Scholar	121.65
Emerald Insight	125.13
Institute of Physics	136.95
Portland Press	149.14
Springer Link	165.14
Elsevier's Cell Press	197.48
Royal Society of Chemistry	219.24
Project Muse	369.39
Cambridge University Press	775.43
Consortium Average	107.16

Table 3: E-resources and their Average Cost

f) Cost Savings

The UGC-INFONET Digital Library Consortium, as a policy, has subscribed to print-independent e-resources, which essentially means that member universties are free to drop subscription to journals that are made accessible to them through the Consortia arrangement. Moreover, beneficiary universities has instructed to delete print subscription to resources for which electronic access is available through the Consortium. Although figures for saving on account of drop in print subscription is not available readily, it is presumed that the total savings made on this account would be equivalent to the expenditure incurred on subscription to e-resources through the Consortium.

6.5.4. Access to E-Resources for Walk-in Users

The Centre has 15 Internet-enabled PCs dedicated for the use of students and researchers who can come and use these PCs for accessing electronic resources being subscribed under the UGC-Infonet Digital Library Consortium. All the license agreements signed with the publishers of e-resources provides for access to e-resources for "walk-in" users. Students from Gujarat University, its affiliated colleges as well as students from the near by universities and colleges get benefit from this service.

6.6. Gujarat University Library Automation Project

Gujarat University was one of the universities listed in the first phase of the UGC funded universities for library automation in the 8th Plan period. The task of automating the library in Gujarat University was delayed for a long period of time. Considering the fact that the Centre is located in close proximity and has expertise required for automation of library, the Gujarat University awarded the project of its library automation to the INFLIBNET. As a special case, the INFLIBNET agreed to automate the Gujarat University library, which has more than 3 lakh items. The total cost of this project is about Rs. 18 lakhs. The project is in the final phase of completion. More than 2.80 lakhs items have been entered. Activities such as barcode label, spine label and book card printing have already completed. The library database of Gujarat University library is available to the users on the INFLIBNET website http://unicat.inflibnet.ac.in/opac/ for access.

7. Conventions

The Centre organizes two major annual conventions, namely CALIBER and PLANNER. During the year under report, 14th CALIBER and 4th PLANNER was organized at University of Panjab, Chandigarh in Feb., 2007 and University of Mizoram, Aizwal in Nov., 2006 respectively. A brief write-up about the conventions are given below:

7.1. PLANNER 2006

The centre has launched a new series of regional conventions called Promotion of Library Automation and Networking in North Eastern Region (PLANNER) since 2003. During the period under review, fourth PLANNER was organized at the Mizoram University, Aizwal during 9-10th November 2006. The theme of the convention was "Digital Preservation: Management and Access to Information in the Twenty First Century". The convention was inaugurated by Dr. Lalzama, the Hon'ble Minister for Higher and Technical Education, Govt. of Mizoram. Sh. Manoj Kumar K, the then Acting Director of the Centre presented an overview of functions, activities and services of the Centre.

Prof. E. Balaguruswamy, Chairman, CEC, UGC, New Delhi delivered the keynote address. A pre-convention tutorial on Installation of D-Space (an open source digital library software) was offered by Shri Yatrik Patel of the Centre. Dr. Jagdish Arora, Librarian, IIT, Delhi and National Coordinator, INDEST-AICTE Consortium made the thematic presentation on "Digital Preservation and Management". Dr. Arora presented a brief background on digital preservation, challenges, strategies and other core issues associated with digital preservation and management. The presentation was followed by the lively discussion by the participants.



Fig. 11: Inaugural Session of the PLANNER 2006

Prof. Pravakar Rath, Head, Department of Library & Information Science, Mizoram University was the Organizing Secretary, Dr. R.K. Chadha, Director, Parliament Library was the Convention Director and Dr. Preeti Mahajan, faculty, Dept of Library and Information Science, Punjab University, Chandigarh acted as the Rapporteur General for the Convention. Shri Prem Chand of the Centre acted as Convener for the PLANNER 2006. The Convention received a good response and was attended by more than 220 participants from 19 states across the country.

The Convention was divided into six technical sessions. A Panel Discussion was organized on Digital Preservation, Management and Access to Information with Dr. Jagdish Arora as its Moderator. Sh. Manoj Kumar, Dr. Usha Munshi, Librarian, ISI, Kolkatta, Dr. Ramesh Gaur, Librarian, Kalanidhi, IGNCA, New Delhi, Sh. Yatrik Patel, and Sh. Shankar Singh, Librarian, PFC, New Delhi were the panelists. The panel had discussions on the sustainability, challenges of preservation in Indian scenario, perpetual access to subscribed contents, federated access & search issues, organizational support and commitments for institutional repositories.

The Valedictory Session started with remarks by the organizing secretary, Prof. Prabakar Rath. The convention report was presented by Dr. Preeti Mahajan, Rapporteur General of the Convention. Prof. Amar Nath Rai, Vice Chancellor of the University while addressing the gathering expressed his pleasure to be associated with the Convention. Sh. Manoj Kumar delivered the concluding remarks.

7.2. International CALIBER 2007

The fourteenth in the series and 5th International CALIBER 2007 (Convention on Automation of Libraries in Education and Research Institutions) was organized in collaboration with Panjab

University, Chandigarh during 8-10th February 2007. The convention was organized on the theme "Information and Knowledge Management in Networked World". It was inaugurated by His Excellency Governor of Punjab and Administrator, Union Territory of Chandigarh, General (Retd.) S F Rodrigues. Prof K R Srivatsan, Director IIITMK delivered the keynote address. A pre-conference tutorial was organized on "Building Digital Library using Open Source Software - DSpace". Sh. Yatrik Patel from INFLIBNET Centre acted as resource person for the tutorial. A cultural programme was organized by the University on 8th February 2007 featuring folk dance and music of Punjab.



Fig. 12: General (Retd.) S F Rodrigues, Governor of Punjab and Administrator, Union Territory of Chandigarh Inaugurating the International CALIBER 2007 at Panjab University, Chandigarh

Of total 160 papers received for presentation in the Convention, 76 papers and 40 abstracts were accepted for publication and presentation in the Convention. A total number of 400 delegates from across the country and abroad attended the convention.

The delegates of the CALIBER-2007 were enthralled by an interactive Video Conferencing Session of Sh. Sam Pitroda, Chairman, National Knowledge Commission (NKC) held on afternoon 9th February 2007. Sh. Pitroda, addressed the delegates from Chicago and after the session interacted with audience.

Dr Ravi Gaddagimath, Librarian, Gulbarga University was the Conference Director and Prof. S L Sangam, Department of Library & Information Sciences, Karnatak University, Dharwad was the Rapporteur General for the Technical Sessions of the Convention. Mr. Randeep Singh Surjewala, Hon'ble Minister of Transport and Parliamentary Affairs acted as the chief

guest in the valedictory function held on 10th February 2007. Dr. V K Anand, University Librarian, Panjab University, Chandigarh acted as an Organising Secretary, who proposed vote of thanks in the valedicory session.

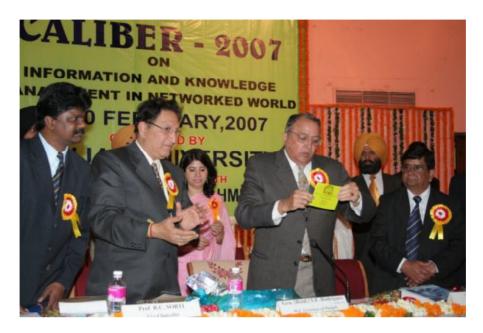


Fig. 13: Unveiling the Souvenir of the International CALIBER 2007

8. Central Facilities

The Centre maintains Central Facilities like Library, SOUL Support Centre, Computer Laboratories and Servers to support essential activities of the Centre. A brief description of such central facilities is given below:

8.1. Library

The INFLIBNET Centre has a small, specialized library consisting of 2000 documents on computer, communication, information and library science. The library is fully computerized using SOUL integrated library management software. The collection of the library is available online through the web OPAC facility of the SOUL.

The INFLIBNET Library plays a vital role in the collection development and dissemination of scientific and technical information to meet the present and future needs of the Centre. The Library maintains databases of i) participants who attended various training programmes at INFLIBNET Centre; ii) SOUL installations; and iii) universities and its contact details including e-mail and website addresses. These databases are accessible through the library website at http://libserver.inflibnet.ac.in.

8.1.2. Library Services

The library provides following services to its users:

- Reference Service
- Document Delivery Service
- Current Awareness Service
- Inter Library Loan Service
- ➤ Electronic Information Service
- Photocopy Service

8.1.3. CD ROM-based Search Services

The Centre subscribes to a large number of databases on CD-ROM consisting of bibliographic details of research articles mainly in the area of social sciences, arts and humanities. Services from these databases are available free-of-cost to the academic community including research scholars and the students for their research activities. These CD ROM databases have been discontinued since 2003 given the fact that e-resources are now being made available to universities under the purview of UGC through the UGC-INFONET Digital Library Consortium. The CD-ROM databases available at the INFLIBNET Library are as follows:

- i) LISA: Library and Information Science Abstract [1969-2003]
- ii) Dissertation Abstracts International: Humanities & Social Sciences [1987-2003]
- iii) EconLit: Economic Literature [1969-2003]
- iv) EMBASE Drugs & Pharmacology CD [1986-2003]
- v) Philosopher's Index [1999-2003]
- vi) PsycLit: Psychological Literature [1887-2003]
- vii) Sociofile: Sociological Abstracts [1974-2003]
- viii) Current Contents on Diskette: Social and Behavioral Sciences [1999-2003]
- ix) Inside Science [1999-2003]
- x) Inside Social Science [1999-2003]

The Centre also subscribes to the following bibliographic databases of books that are being used for authenticating bibliographic records in union catalogues. These databases are also available to visiting users:

- i) Ulrich's On Disc: International Periodicals Directory
- ii) ISSN Compact: The ISSN register on CD-ROM [1999, 2003]
- iii) NUCSAL: National Union Catalogue of Serials in Academic Libraries [2005]
- iv) BNB: British National Bibliography, Current file [1986-2001]
- v) OCLC: Recent Books [1999]

vi) OCLC: Old Books [1999]

vii) OCLC: Serials [1999]

viii) OCLC: Authority file [1999]

ix) CDMARC: Subject Headings [1996]

x) CDMARC: Names [1996]xi) CDMARC: Holdings [1996]

8.1.4. IR @ INFLIBNET (http://dspace.inflibnet.ac.in)

The IR @ INFLIBNET has been set-up to host full-text of research publications of technical staff as well as other publications of the Centre using Dspace, an open source digital library software developed by the Massachusetts Institute of Technology. The Dspace supports the Open Archives Initiative's Protocol for Metadata Harvesting (OAI-PMH), an internationally recognized protocols and interoperability standards. The IR @ INFLIBNET provides a platform for researcher in LIS to deposit, reuse and share their research publications. The repository also has the ability to capture, index, store, disseminate and preserve digital materials created in the Centre. Staff members can register themselves with the digital repository and submit their pre-prints (pre-refereed version of an article), post-prints (post-refereed final version) and publisher PDFs (if allowed by the publisher). The papers published in CALIBER and PLANNER proceedings have been uploaded in to the IR @ INFLIBNET in PDF format. The Institutional Repository also includes Course Materials, Newspaper Clippings, etc.

8.1.5. Institutional Member

The Centre has institutional membership of following national and international organizations:

- ➤ Association for Information Management (ASLIB)
- > International Federation of Library Associations (IFLA)
- ➤ American Library Association (ALA)
- ➤ National Information Standards Organization (NISO)
- ➤ Indian Library Association (ILA)
- > Bureau of Indian Standards (BIS)
- Society for Information Science (SIS)
- Indian Association of Special Libraries and Information Centres (IASLIC)
- Computer Society of India (CSI)
- ADINET (Ahmedbad Library Nework)
- > American Resource Centre,
- British Library, Ahmedabad

8.1.6. E-Journals Archival Library (Print Version)

Besides receiving access to e-resources on complementary basis under the UGC-Infonet Digital Library Consortium, the Centre maintains a separate Archival Library consisting of print journals received as a part of the agreement with the participating publishers of the UGC-Infonet Digital Library Consortium. Under the agreement, the publishers are requested to submit a copy of all the issues of the journals. This archival library is open to all users interested in using these print resources for their study / research.

The Centre has received issues of 286 journal titles from different publishers. During this year under review, issues of 100 journals each were received from the Taylor and Francis, Blackwell and Oxford University Press. Users can access information about these journals on their desktops at the website http://libserver.inflibnet.ac.in/ejournal/opac.asp.

8.2. SOUL Support Services

The SOUL Software developed by the Centre is one of the most popular software having maximum number of installations in the country in the libraries of academic and research institutions. The demand for the software comes from the every corner of the country. By the end of the March 2007, the software had more than 1312 installations. Some of the State Governments including Maharashtra, Madhya Pradesh and Andhra Pradesh have purchased software in bulk for their college libraries. Since installation, maintenance and training on the SOUL Software for institutions spread all over the country is a Harculean task that cannot be carried out by INFLIBNET staff alone, the Centre has established region-wise SOUL Support Services by deploying retired library professionals as SOUL Coordinators. The Centre had deployed four SOUL Coordinators for four different regions of the Country. At the moment, however, the Centre has the following two active Coordinators, one in Northern region and another in Southern region.

- i) Prof. C P Vashishtha, Retired Professor, University of Delhi. He takes care of SOUL Coordination work in the states of Delhi, Uttaranchal and Uttar Pradesh.
- Shri K Ravindran Asari, Retd. Librarian, Mahatma Gandhi University, Kottayam, Kerala.
 He is looking after the states of Kerala and Tamil Nadu.

A proposal has been developed to deploy few more Coordinators to serve states having a large number of installations.

8.3. Computer Network & Infrastructure

Infrastructural facilities created at the centre over the years to meet Centre's objectives are listed below:

8.3.1. Personal Computers, Laptops and Servers

Given the fact that the main objective of the Centre is to provide proactive help to the universities in library automation and to mediate resource sharing amongst them, computers are the main assets of the Centre. The INFLIBNET Programme started in the year 1991-92 with just 4 PCs mainly for office work, numbers grew to 15 in the year 1992-93. This number grew to 41 in the year 1996-97 and to 62 in the year 1999-2000. A mini computer was purchased in the year 1995-96 essentially for mounting the national union databases. Presently the Centre has 104 PCs and 19 laptops, all of them are P-IV machines.

The Centre added a Xeon server and a RISC Server in the year 2002-03. The two servers are being used for hosting National databases accessible from the Centre's web site. Besides, PCs, laptops and servers, the Centre has other accessories such as printers, DAT drives and other storage devices.

8.3.2. Software

The Centre has licensed copies of the following software to support its R&D and related activities:

i) Operating Systems

- ➤ MS-DOS V.6.22
- ➤ MS WINDOWS 3.11/95/98
- Novell Netware
- SCO Open Server Enterprise Edition 5.05
- Windows 95 Upgrade 1.44
- MS Windows NT Server 4.0 5
- MS Windows NT Workstation
- Windows 2000 Adv. Server Academic Version
- ➤ Windows 2000 Desktop O.S.
- Microsoft, Win XP Prof.
- > Red Hat Linux 7.3 /8.0/9
- ➤ HP-UX 11i

ii) RDBMS

- Oracle Workgroup 8.0
- Sybase Replication Server 11.5
- > SQL Server 6.5/7.0/2000
- ➤ Oracle 9i for HP-UX

iii) Application Development Tools

- ➤ MS VISUAL C++ PRO V 5.0 (AE)
- > Powerbuilder 5.x/6.0
- ➤ Microsoft Visual Studio 6.0
- Microsoft Visual Studio .Net
- Smartdraw 6.0 version Professional Plus
- > Oracle Internet Developer Suite.
- Oracle 10i Application Server

iv) Miscellaneous

- ➤ EZYBAR Bar Code Label Printing Software
- > Stackey-Batutil 4.0 Software
- ➤ Novell Netware Connect
- ➤ Word Star Ver. 7.0
- ➤ MS-Office Ver. 4.2 and 2000 Premier
- ➤ ISM Office upgrade ver 3.0.4
- > Dr.Solomon's Anti Virus Toolkit V.7.94
- > Pagemaker 6.5 Ver. AE Software
- > Adobe Acrobat 4.0 AE Software
- ➤ Microsoft Exchange 2000
- Symentac Anti-Virus Small Business Edition
- ➤ CDS/ISIS, WinISIS
- ➤ Antivirus Trend Micro office scan 6.5 (75 user licensed)
- > Smart draw 6.0
- > Jaws for Windows

8.3.3. Local Area Network and Internet Connectivity

The Centre provides most of its services through Internet 365 days a year, seven days a week and 24 hours a day. The network infrastructure is one of the most important components to provide efficient and effective services to the remote and local academic users. The centre has up-upgraded network infrastructure that connects all laboratories and offices of the Centre with 10/100 Mbps structured cabling, Rack, I/Os, Jack panels etc. As on now, the network is running over shared hubs that are being replaced with managed L3 and L2 switches. The Informatics Lab of the Centre is Wi-Fi enabled for the users who visit the Center with laptops and also provides software support for visually challenged persons. The classroom being used for imparting training is equipped with Interactive White Board.

The facility for Internet connectivity was established at the Centre in the year 1993-94 using dial-up connectivity of the ERNET. A number of different options and service providers were tried to improve the Internet connectivity between 1995 and 2000. With the launch of UGC Infonet Programme and the INFLIBNET as its nodal agency, a 128 Kbps VSAT was installed at the Centre in the year 2003-04. Later the speed of this VSAT was upgraded to 512 Kbps. Presently this TDM / TDMA VSAT is operational with a speed bandwidth of 640 Kbps. In addition, a dedicated 2 Mbps leased line connectivity has also been taken from ERNET as part of the UGC Infonet scheme. The national union databases are being made accessible through this dedicated leased line. On an average, the INFLIBNET Web site and the national union databases attract more than 15,000 visitors. The Table 4 given below provides usage statistics of the INFLIBNET Web site.

Monthly Statistics for January 2007				
Total Hits	706972			
Total Files	428066			
Total Pages	310418			
Total Visits	34260			
Total Kbytes	22307448			
Total Unique Sites	12186			
Total Unique URLs	1719			
Total Unique User Agents	1068			
	Avg	Max		
Hits per Hour	950	17300		
Hits per Day	22805	37154		
Files per Day	13808	20858		
Pages per Day	10013	23070		
Visits per Day	1105	1366		
KBytes per Day	719595	1202750		

Table 4: No. of Hits to the INFLIBNET Website

9. Awards, Honours and Distinctions

The following awards, honours and disctinctions were bestowed on the staff members of the INFLIBNET during the period under report:

Dr. T.A.V. Murthy

The Dr. TAV Murthy, Director of the Centre was nominated as a member of the committee on "Working Group on Libraries" set-up by the National Knowledge Commission (NKC).

Sh. Rajesh Chandrakar

- ➤ Member, Panel on Content Analysis (MSD5/P-10), a Committee of the MSD 5 of the Bureau of Indian Standards (BIS).
- ➤ Centre's Representative, Documentation and Information Sectional Committee and Panel Meeting on Review of Indian Standards of MSD5/ P-6.
- ➤ Rapporteur and Member, Recommending Committee, International Conference on Digital Library (ICDL), TERI, New Delhi, 5th to 8th December 2006.

Sh. Manoj Kumar K

➤ Member, National Steering Committee, INDEST-AICTE Consortium.

10. Publications

10.1. Conference Proceedings

- i) Manoj Kumar, K [ed. et. al.]. Information and Knowledge Management in Networked World. Proceedings of the International CALIBER 2007 held at Panjab University, Chandigarh in association with INFLIBNET Centre, Ahmedabad and Panjab University, Chandigarh, 8th 10th February 2007. Ahmedabad: INFLIBNET Centre, 2007. 826 p.
- ii) Manoj Kumar, K [ed. et. al.]. Digital Preservation, Management and Access to Information in the Twenty First Century. Proceedings of the PLANNER 2006 held at Mizoram University, Aizwal in association with INFLIBNET Centre, Ahmedabad and Mizoram University, Aizwal, 9th 10th November 2006. Ahmedabad: INFLIBNET Centre, 2006. 573 p.

10.2. Articles Published in National and International Journals

- i) Sharma, SK, Parida, Ellora and Manoj Kumar, K. UGC-Infonet: a cross-sectional view on infrastructure. *In*: Digital Preservation, Management and Access to Information in the 21st century. Proceedings of the PLANNER 2006, Mizoram University, Aizwal, 9th 10th November 2006. Ahmedabad: INFLIBNET Centre, 2006. pp. 322-335.
- ii) Prem Chand, Satyabati Devi and Chauhan, Suresh Kumar. Assessment and Evaluation of Usage of UGC-Infonet E-Journals Consortium in North-East Universities. *In*: Digital Preservation, Management and Access to Information in the 21st century. Proceedings of the PLANNER 2006, Mizoram University, Aizwal, 9th 10th November 2006. Ahmedabad: INFLIBNET Centre, 2006. pp. 351-356.

- iii) Manoj Kumar, K. Modernisation and networking of libraries. Paper presented at DOS National Workshop on Resource Sharing in Digital Environment, SAC/ISRO, 21st 23rd November, 2006.
- iv) Lalita, P. and Manoj Kumar, K. Demystifying web for authentic information and morphology of scholarly literature. *In*: Information Management in Digital Libraries. Proceedings of the NCIMDIL, IIT Kharagpur, 2nd 4th August, 2006. Kharagpur: IIT Kharagpur, 2006. pp. 375-384.
- v) Sangam, S.L. and Prakash, K. Improving access to open access journals: Abstracting, indexing and citation sources. *In*: Digital Preservation, Management and Access to Information in the 21st century. Proceedings of the PLANNER 2006, Mizoram University, Aizwal, 9th 10th November 2006. Ahmedabad: INFLIBNET Centre, 2006. pp. 406-417.
- vi) Singh, AP, Khan, M.T.M. and Chauhan, Suresh Kumar. Versatile world of libraries in digital environment. *In*: Digital Preservation, Management and Access to Information in the 21st century. Proceedings of the PLANNER 2006, Mizoram University, Aizwal, 9th 10th November 2006. Ahmedabad: INFLIBNET Centre, 2006. pp. 532-539.
- vii) Chandrakar, Rajesh. Digital Object Identifier system: an overview. The Electronic Library, 24 (4), 445-452. http://www.emeraldinsight.com/10.1108/02640470610689151
- viii) Chandrakar, Rajesh. Electronic publishing model for Indian academic journals. Presented at International Conference on Digital Libraries, TERI, New Delhi, 5th 8th December 2006.
- ix) Manoj Kumar, K. Information management in digital libraries: Role of INFLIBNET / UGC. Presented at the International Conference on Digital Libraries, TERI, New Delhi, 5th 8th December 2006.
- x) Manoj Kumar, K., Murjani, Geeta and Patel, Bansari. SMS interface for a library management package: SOUL experience. In: Information and Knowledge Management in Networked World. Proceedings of the International CALIBER 2007, Panjab University, Chandigarh, 8th 10th February 2007. Ahmedabad: INFLIBNET Centre, 2007. pp. 352-364.
- xi) Prem Chand [et. al.]. Access to scholarly literature in higher education institutions under INFLIBNET Consortium. In: Information and Knowledge Management in Networked World. Proceedings of the International CALIBER 2007, Panjab University, Chandigarh, 8th 10th February 2007. Ahmedabad: INFLIBNET Centre, 2007. pp. 570-588.
- xii) Singh, AP, Khan, M.T.M. and Chauhan, Suresh K. Electronic resource management: Emerging key issues. *In*: Information and Knowledge Management in Networked World. Proceedings of the International CALIBER 2007, Panjab University, Chandigarh, 8th 10th February 2007. Ahmedabad: INFLIBNET Centre, 2007. pp. 589-598.

11. Conferences, Seminars and Training Programmes Attended & Papers Presented by the INFLIBNET Staff

Staff of the Centre participated in the following conferences, seminars and training programmes:

Sh. Manoj Kumar K, Scientist-D (CS)

- ➤ National Conference on Information Management in Digital Libraries (NCIMDL), Indian Institute of Technology, Kharagpur, 2nd 4th August 2006.
- ➤ International Conference on Digital Libraries (ICDL) 2006, TERI, New Delhi, 5th 8th December, 2006.

Sh. Prem Chand, Scientist-C (LS)

- Workshop on Access to Electronic Resources, MS University of Baroda, Varodara, 5th 9th August 2006.
- ➤ International Conference on Digital Libraries (ICDL) 2006, TERI, New Delhi, 5th 8th December, 2006.

Sh. Yatrik Patel, Scientist-B (CS)

- National Workshop on Library Automation and Empowering Librarianship in IT Application, MS University of Baroda, Vadodara 3rd - 7th May 2006.
- ➤ National Workshop on Digital Libraries, MS University of Baroda, Vadodara, 21st -23rd September 2006.

Sh. Rajesh Chandrakar, STO (LS)

- National Workshop on Library Automation and Empowering Librarianship in IT Application, MS University of Baroda, Vadodara 3rd to 7th May 2006.
- ➤ National Workshop on Digital Libraries, MS University of Baroda, Vadodara, 21st to 23rd September 2006.
- ➤ International Conference on Digital Libraries (ICDL) 2006, TERI, New Delhi, 5th to 8th December, 2006.

12. Training Programmes / Workshops Organized by the Centre

12.1. User Awareness Programmes for E-resources

The INFLIBNET Centre has conducted extensive training programmes for the benefit of library staff, faculty, students, research scholars and library professionals from various universities

across the country. 36 awareness-training programmes have been organized so far at different places during 2005-06 for 22 universities. Such programmes are also being conducted in other universities on requirements basis. The major objective of this programme is to create awareness and encourage researchers to use e-resources provided to the universities under the Consortium arrangement. The programme was organized at the universities and coordinated by the identified coordinator from each universities in association with two scientific staffs of the Centre.

12.2. National Workshop and Seminars

The Centre organized the following five workshops and seminars during the period under report:

12.2.1. Workshop on Library Automation with Special Reference to SOUL Software at Kannur University, 20th to 22nd April, 2006

The INFLIBNET Centre organized three-Days Workshop on Library Automation with Special Reference to SOUL Software during 20th to 22nd April 2006 at Kannur University. Dr. TAV Murthy, Director of the Centre inaugurated the workshop and Prof. K Kunhikrishnan, Pro-Vice Chancellor of the University presided over the function. Prof. Abdur Rasheed, Registrar of the University welcomed the gathering and Prof. K Ravindran Ansari, Co-ordinator, INFLIBNET-SOUL Regional Centre, Trivandrum proposed a vote of thanks to all concerned. The topics covered in the workshop included library automation, digitization, installation and use of SOUL Software and UGC-Infonet Digital Library Consortium. 19 participants from the Kannur University attended the Workshop.

12.2.2. SOUL Training Programme at Arul Anandar College, Madurai, 19th to 21st April, 2006

The Centre conducted a three-days Training Programme on SOUL Software at Arul Anandar College, Karumathur, Madurai on 19th to 21st April 2006. Dr. TAV Murthy, Director of the Centre inaugurated the programme. Besides lectures on all modules of the SOUL Software, training was imparted to the participants on installation of software and MS SQL database, data transfer, backup and restoration. Afternoons were devoted to imparting "hands-on" training to the participants. Three computer professionals from the computer Centre and and 4 library professionals participated in the workshop. Sh. Rajesh Chandrakar served as faculty for the programme.



Fig. 14: Dr. TAV Murthy, Director, INFLIBNET Centre, Inaugurated the three-days Workshop on SOUL Software at Arul Anandar College, Madurai

12.2.3. SOUL Training Programmes for Directorate of Collegiate Education, Hyderabad, 4th to 8th December 2006

The SOUL Training Programme for Directorate of Collegiate Education (DCE), Hyderabad was organized at the Indira Gandhi Priya Darshini Govt. Degree College for Women, Nampally, Hyderabad from 4th to 8th December 2006 considering the fact that DCE had purchased 102 copies of SOUL Software for their colleges. While the training programme for the first batch was held in the previous financial year, the second batch of the training programme for the DCE was inaugurated by Dr. Subbarao Ghanta, State Chief Information Officer and E.O. Special Secretary to CM, Information Technology and Communications Department, Govt. of AP, Hyderabad. 50 partricipants attended the training programme from different colleges of Andhra Pradesh. Besides lectures on all modules of the SOUL Software, training was imparted to the participants on installation of software and MS SQL database, data transfer, backup and restoration. Sh. B. Ramesh, Sh. HG Hosamani, Ms. Ellora Parida and Sh. Suresh Chauhan of the Centre acted as resource persons for the programme.

12.2.4. Seminar on Library Automation at Navsari, Gujarat, 8th December, 2006

The ADINET and INFLIBNET in collaboration with South Gujarat College Granthpal Mitra Circle organized a one-day seminar on Library Automation at Sayaji Vaibhav Library, Navsari on 8th December 2006. The main objective of this seminar was to create excellence in libraries through library automation and especially to build a changed perspective in library management by emphasizing the need for more collaboration and cooperation rather than competition. Over

30 participants from Gujarat attended the seminar. Mrs. R Bharucha, Hon. Director of the ADINET, Sh. Yatrik Patel and Dr. K Prakash from the Centre acted as resource persons. Sh. D J Chauhan, Librarian of V S C Patel College Arts and Science, Billimora was the Coordinator for the programme.

12.3. Specialized Training Programmes

12.3.1. INFLIBNET Awareness for Colleges of Bihar & Jharkhand States, St. Xavier's College, Ranchi on 24th June 2006

A UGC (ERO) sponsored INFLIBNET Awareness Programme for the Colleges of Bihar and Jharkhand was held at St. Xavier's College, Ranchi on 24th June 2006. His Excellency Shri Syed Sibtey Razi, Governor of Jharkhand state was chief guest of the Inaugural Function. Principals of 25 Colleges, 17 Librarians, 2 Registrars, 1 C.C.D.C. and 44 other professors were participated in the programme. The INFLIBNET activities, its role in library automation, UGC-Infonet Digital Library Consortium were the topics of the presentations and discussions at the programme.



Fig. 15: Hon'ble Governor of Jharkhand His Excellency Sh. Syed Sibtey Razi Inaugurating the INFLIBNET Awareness Program at Ranchi on 24th June 2006

12.3.2. Courses on ICT for M.L.I.Sc & B.L.I.Sc. Students of Gujarat University

On the request of Department of Library and Information Science, Gujarat University, the INFLIBNET Centre accepted the task of teaching the Information and Communication Technology to the B.Lib.I.Sc. and M.Lib.I.Sc. students of the Department of Library & Information Science, Gujarat University for the academic year 2005-06. Total no. of 51 students were taught different topics in computer and information sciences. The programme consisted of two

sessions: theory and practical sessions. The course content of the programme was based on the curriculum designed for Information Technology papers of the two courses i.e. B.Lib.I.Sc. and M.Lib.I.Sc. The technical staff of the INFLIBNET Centre acted as a faculty for the programme.

12.4. IRTPLA Training Programme

The IRTPLA (INFLIBNET Regional Training Programme for Library Automation and Networking) programme was started with an aim to meet the needs of large number of libraries by conducting the regional level training, emphasizing the local needs and language for implementation of automation in the college libraries. The programme is very popular and large numbers of libraries are covered in a limited period of time. The INFLIBNET provides financial and technical assistance to the universities for conducting IRTPLA training programmes. During the period under report, the following two training programmes were conducted at Tirupathi and Bhopal.

12.4.1. IRTPLA Training Programme, 12th to 16th June 2006, Tirupathi

The IRTPLA was conducted at Shri Padmavati Mahila Vishwa Vidyalam, Tirupati during 12th-16th June 2006. 21 Participants from different colleges attended the Programme. Sh. B. Ramesh was a resource person and Dr. D. Rajeswari, Librarian of the College was the co-ordinator of the programme. Presentations made during the programme inclduded the followings:



Fig. 16: Prof. Shashi Rai, Principal along with Dr. TAV Murthy, Prof. Chattopadhyay, Dr. B K Khanuja, Dr. Sanjiv Saraf Ms. Rani at Sarojini Naidu Govt. Girls Post Graduate College, Bhopal

- a) INFLIBNET activities, services and future plans
- b) Planning for library automation: academic libraries
- c) Union databases at INFLIBNET centre
- d) MARC21 bibliographic standard: an overview
- e) SOUL an overview

- f) Impact of Internet on library and information centres
- g) Networking of the university libraries: UGC-Infonet
- h) Basics of networking and security

12.4.2. IRTPLA Training Programme, 24th to 28th April, 2006, Bhopal

The Centre's Regional Training Programme (IRTPLA) for Library Automation and Networking in Hindi Language was organized at the Sarojini Naidu Govt. Girls PG College, Bhopal, Madhya Pradesh from 24-28 April, 2006. 23 participants from different colleges attended the Programme. The Training Programme was inaugurated by Dr. Shashi Rai, Principal, Sarojini Naidu Govt. Girls PG College and Commission Member of the UGC. Sh. H G Hosamani and Sh Umesh Gohel of the Centre acted as Resource Persons. Dr. Balbir Khanuja, Librarian, PG College acted as a Coordinator of the programme.

12.5. SOUL Orientation Training Programme at the INFLIBNET Centre

The INFLIBNET provides five-days Orientation Training Programme specially designed for imparting training to fresh users on installation and implementation of the SOUL Software in libraries. While the morning sessions of the programme devoted to theoretical lectures and demonstrations, the afternoon sessions completely earmarked for "hands-on" practice. The participants are given facilities of a well-equipped computer laboratory with all requisite facilities. The course content of the programme is designed to cover the following topics:



Fig. 17: Participants and Faculty of the IRTPLA Programme organized at the SNGG PG College, Bhopal

- i) INFLIBNET activities and UGC-Infonet Digital Library Consortium
- ii) SOUL Overview and Catalogue Module
- iii) SOUL Acquisition Module
- iv) SOUL Circulation Module
- v) SOUL Serial Module
- vi) SOUL- OPAC, Administration and Backup
- vii) MS-SQL and SOUL Installation
- viii) SOUL Multilingual using ISM



Fig. 18: 49th Training Programme on Installation and Operations of SOUL Software 22nd to 26th May, 2006

Generally, two participants from each new installation are permitted to join this training programme, one each from computer and library science background. The INFLIBNET provides TA / DA to one of the participant. So far, 57 such training programmes have been organized at the Centre. During the financial year 2006-07, the following 10 training programmes (Table 5) were held to impart training to 226 participants:

Training's Serial No.	Period of Programme	No of Participants
48	3 rd - 7 th April 2006	25
49	22 nd - 26 th May 2006	28
50	19 th - 23 rd June 2006	14
51	31st July - 4th August 2006	12
52	25 th - 29 th September 2006	20
53	9 th - 13 th October 2006	15
54	27 th November - 1 st December 2006	23
55	4 th - 8 th December 2006	50

56	26 th February - 2 nd March 2007	19
57	19 th - 23 rd March 2007	20
	Total	226

Table 5: Schdule of SOUL Training Programme Organized at the INFLIBNET

13. Distinguished Visitors

- i) **Sh. S K Singh**, IAS, Financial Advisor, UGC visited the INFLIBNET Centre and interacted with the technical and administrative staff of the Centre. Sh. Singh appreciated the efforts put-in by the Centre in providing services to the academic community.
- ii) **Dr. K Gunashekaran**, Joint Secretary, UGC visited the Centre during the period under review. Dr. Gunashekaran had interactions with the technical and administrative staffs of the Centre. He showed keen interest in the college model of library consortium.
- iii) A batch of 20 participants of Refresher Course organized by the Academic Staff College, Gujarat University, Ahmedabad and its faculty visited the Centre to get acquainted with the INFLIBNET, its activities and services.
- iv) Mr. Chikkamallaiah, Mr. M.K. Singh and Dr. M G Sreekumar, Librarians of the Indian Institute of Management, Bangalore, Kozikode and Lucknow respectively visited the Centre and had interactions with the technical staff of the Centre.



Fig. 19: INFLIBNET Staffs with Indian Institute of Management Librarians during their Visit to the INFLIBNET Centre

14. Academic Interaction with Universities and other Research Institutions14

students of B.E. and MCA from engineering colleges in Gujarat and neighboring states had undergone practical training at the INFLIBNET Centre during the year under review. Although the Centre receives a large number of applications from engineering colleges in Gujarat and neighboring states for the training at INFLIBNET, the Centre selects limited student trainees. Facilities are also available to the library science students of IGNOU as well as Gujarat University, Ahmedabad to use e-resources at the Centre.

15. Other Notable Activities

15.1. Librarian's Day Celebration

The INFLIBNET, ADINET and the Ahmedabad Management Association (AMA) jointly organized Librarian's Day at H T Parekh Convention Centre, AMA, Ahmedabad on 26th August 2006. Sh. Mahendrabhai Patel, President AMA and guest of honour delivered the inaugural talk. Sh. Kartikeya Sarabhai, Chairman, ADINET Governing Council and Director CEE gave presidential address. Mrs Rodha Bharucha, Hon. Director of ADINET proposed vote of thanks. Five papers were presented on different aspects of open access initiatives. Presentations and demonstrations from various publishing industries were also arranged during the technical sessions. More than 350 participants from Gujarat and neighbouring states participated in the event.

15.2. Independence Day Celebration

The 60th Independence Day of the Nation was celebrated in the Centre on 15th August 2006. Sh. Manoj Kumar, Scientist-D, the then Acting Director of the Centre hoisted the national flag and addressed the gathering of the staff and their family members.

15.3. Republic Day Celebration

The Centre celebrated the 58th Republic Day of the nation on Friday 26th January 2007 in its campus. Sh. S M Salgar, Acting Director hoisted the national flag and addressed the gathering. Staff members of the Centre with their families attended the function.

16. Right To Information (RTI) Act

In order to promote transparency and accountability in the working of every public authority and to empower the citizens to secure access to information under the control of each public authority, the Government of India has brought out "The Right to Information Act, 2005". In accordance with the provisions of section 4(1) (b) of this Act, the INFLIBNET has put information and guidance of the stakeholders and the general public and hosted the same on the website of the centre at http://www.inflibnet.ac.in. In terms of section 5(2) of the Right to Information

Act, 2005, the Director of the INFLIBNET Centre has been designated as Appellate Authority / Nodal Officer for all matters concerning to the Centre. The detailed information about RTI and responsible officers in the Centre is available on the Centre's website at http://www.inflibnet.ac.in.

17. Financial Status

Finance and Accounts

Some of the financial indicators reflecting INFLIBNET activities over the last three years are given below including the release of grant under PLAN and NON PLAN both:

	(Rupees in Lakhs)		
	2004-2005	2005-2006	2006-2007
Expenditures			
Capital	4.87	2.26	6.21
Operational/Administrative	153.11	143.95	132.81
Training Courses & Conference	15.47	11.34	13.61
Networking	9.23	7.16	5.56
Database Development	7.74	5.26	3.06
UGC-Infonet	Nil	Nil	566.55
E-Subscription	1722.43	1687.03	2754.99
Grants in Aid Ro	eceived from U	IGC	
Plan	55.00	37.50	Nil
Non-Plan	203.89	100.00	200.00
UGC-Infonet	Nil	750.00	500.00
E-Subscription	3060.50	1185.50	1110.50
Automation - North East/J&K	Nil	Nil	305.00

The Audited annual accounts of INFLIBNET Centre for the financial year 2006-2007 is given below:

Receipt & Payment

No.	Head of Accounts	F.Y. 2006-2007	
		(Current Year)	
		Receipt	Payment
1.	Cash on Hand (Op. Balance)	10000.00	0.00
2.	Bank Balance (Op. Balance)		
	SBI,Guj.Uni.BrSB A/c10298781250	1169593.69	0.00
3.	Bank Balance (Op.Balance)		
	SBI,Guj.Uni.BrSB A/c 10298782049	0.00	0.00

4.	Cash on Hand (Cl. Balance)	0.00	12010.00
5.	Bank Balance (Cl. Balance)		
	SBI,Guj.Uni.BrSB A/c 10298781250	0.00	11320067.69
6.	Bank Balance (Cl. Balance)		
	SBI,Guj.Uni.BrSB A/c 10298782049	0.00	0.00
7.	Advertisement Exps.	0.00	131580.00
8.	Audit Fee	0.00	15000.00
9.	Automation – North East/J&K	0.00	0.00
10.	Automation of Gujarat University Library	528827.00	313814.00
11.	Bank Charges	0.00	8260.00
12.	Bonus	0.00	27137.00
13.	Books & Journals	1047.00	40217.00
14.	Building Maintenance	0.00	32055.00
15.	C.C.A. (Admn. Staff)	0.00	31650.00
16.	C.C.A. (Technical Staff)	0.00	31200.00
17.	CALIBER-2005	0.00	646.00
18.	CALIBER-2006	0.00	97498.00
19.	CALIBER-2007	0.00	476535.00
20.	Canteen Account	36788.00	36794.00
21.	Canteen Subsidy	0.00	28548.00
22.	Car Loan Advance	40080.00	0.00
23.	Cash Contra	1542429.00	1542429.00
24.	Computer Software	0.00	72236.00
25.	Computers	0.00	77715.00
26.	Conference & Symposium	600.00	54800.00
27.	Consumable, Stores & Spares	33832.00	238259.00
28.	Conveyance Charges	0.00	1323.00
29.	Database Development Exps.	0.00	305694.00
30.	Dearness Allowance (Admn. Staff)	0.00	379191.00
31.	Dearness Allowance (Technical Staff)	0.00	593274.00
32.	Dearness Pay (Admn. Staff)	0.00	454874.00
33.	Dearness Pay (Technical Staff)	0.00	713682.00
34.	Death cum Retirement Gratuity	0.00	239940.00
35.	Earnest Money Deposit	71500.00	71500.00
36.	Electrical Fitting & Fixtures	12560.00	12560.00
37.	Electrical Maintenance	459.00	14945.00
38.	Electricity Charges	545.00	663714.00
39.	Entertainment Exps.	0.00	98383.00

40.	Equipment Maintenance	0.00	200670.00
41.	E-Subscription	194257.00	194257.00
42.	Foreign Traveling Exps.	0.00	0.00
43.	Festival Advance	10500.00	10500.00
44.	Franking Machine Advance	177341.00	175000.00
45.	Furniture & Fixtures	0.00	15150.00
46.	G.B. Meeting Expenses	0.00	0.00
47.	Garden Expenses	0.00	18684.00
48.	General Advance	403170.00	387350.00
49.	General repairs & maintenance	2575.00	83300.00
50.	Group Insurance Saving	44741.00	184881.00
51.	GRUH Finance Ltd.	34104.00	34104.00
52.	Guest House Caretaking Charges	0.00	37250.00
53.	H.D.F.C. A/c.	39144.00	39144.00
54.	Honorarium Exps.	0.00	10300.00
55.	Hostel Charges	2796.00	0.00
56.	Hostel Maintenance	364.00	364.00
57.	House Building Advance	233070.00	0.00
58.	House Rent Allowance (Admn. Staff)	0.00	204716.00
59.	House Rent Allowance (Technical Staff)	0.00	304291.00
60.	IGNOU	0.00	13000.00
61.	Income Tax	3352656.00	3352656.00
62.	Income & Expenditure A/c.	0.00	18151253.00
63.	INFLIBNET Centre Employees P.F. Account	661462.00	661462.00
64.	INFLIBNET Employees Co. Op.		
	Credit Society Ltd.	267686.00	267686.00
65.	INFLIBNET Sports & Recreation Club	2070.00	2070.00
66.	Institutional Membership Fee	0.00	22633.00
67.	Interest A/c.	8707576.00	0.00
68.	Interest on Housing Loan	239066.00	0.00
69.	Interest on Scooter Loan	20890.00	0.00
70.	Interest Receivable on Car Loan	12224.00	0.00
71.	Investment in Fix Deposits	246674543.00	113550905.00
72.	Legal & Professional Expenses	0.00	0.00
73.	Loss on Sale of Assets	0.00	0.00
74.	Licence Fee (H.R.D.)	6326.00	0.00
75.	LTC Advance	43600.00	66850.00
76.	LTC Expenses	0.00	48735.00

77.	L.I.C. of India	135109.00	135109.00
78.	MINI Computer	0.00	0.00
79.	Miscellaneous Income	16047.00	0.00
80.	Miscellaneous Expenses	0.00	10094.00
81.	Network Management for Library Workshop	0.00	0.00
82.	Networking Expenses	0.00	556722.00
83.	Newsletter Publication Expenses	0.00	15670.00
84.	Newspaper & Periodicals Expenses	0.00	40204.00
85.	Office Equipments	0.00	117530.00
86.	Office Expenses	0.00	35560.00
87.	Office Rent	0.00	1030000.00
88.	Overtime Allowance (Admn. Staff)	0.00	2814.00
89.	P.F. Contribution	0.00	164260.00
90.	Pension & Gratuity	0.00	529172.00
91.	Planner-2005	0.00	0.00
92.	Planner-2006	0.00	326871.00
93.	Postage & Telegram Expenses	0.00	191983.00
94.	Professional Fees	0.00	43750.00
95.	Professional Tax	23220.00	23220.00
96.	Recruitment Exps.	0.00	3950.00
97.	Regional Training	0.00	50000.00
98.	Reimbursement of Medicines	0.00	708168.00
99.	Remuneration & Wages	0.00	400336.00
100.	Rent for Director Residence-cum-Guest House	0.00	43125.00
101.	Revenue Stamps A/c.	259.00	259.00
102.	Salaries (Admn. Staff)	0.00	952972.00
103.	Sale of Computer	0.00	0.00
104.	Salaries (Technical Staff)	0.00	2023710.00
105.	Salary Payable	3530147.00	3530147.00
106.	Sale of Furniture & Fixture	0.00	0.00
107.	Sale of Office Equipment	0.00	0.00
108.	Sale of Scientific Equipment	0.00	0.00
109.	Scientific Equipment	0.00	298995.00
110.	Scooter Loan	34310.00	24000.00
111.	Security Deposit	72000.00	55000.00
112.	Security Expenses	0.00	378478.00

113.	Service Charges to AES Hostel	0.00	356000.00
114.	Service Charges to Director's		
	Residence-cum-Guest House	0.00	1800.00
115.	SOUL Expenses	6227395.00	1958674.00
116.	Staff welfare	0.00	2081.00
117.	Stationary & Printing Expenses	0.00	329196.00
118.	Stock	366994.00	253014.00
119.	Subscription for Technical Journals	0.00	0.00
120.	Sundry Deposit	37500.00	0.00
121.	TDS A/c.	0.00	0.00
122.	Telephone & Trunk Call Expenses	0.00	335746.00
123.	Transport Allowance (Admn. Staff)	0.00	36600.00
124.	Transport Allowance (Technical Staff)	0.00	63800.00
125.	Traveling Advance	165200.00	189200.00
126.	Traveling Expenses	255590.00	980749.00
127.	U.G.C. Grants	20000000.00	0.00
128.	U.G.C. Grants for E-Subscription	129201253.00	275499576.00
129.	UGC Grants for North East Region	30500000.00	0.00
130.	UGC INFONET	50000000.00	056654625.00
131.	UGC INFONET (Training)	0.00	0.00
132.	Vehicle Hire Charges	0.00	615544.00
133.	National Workshop on Library		
	Automation in Hindi	0.00	0.00
134.	Workshop on advance website designing	0.00	0.00
	BALANCE	505143445.69	505143445.69

For

Deepak Jayantilal Shah & Co.

Chartered Accountants

T-12/A, Vikram Chamber, Ashram Road

Ahmedabad - 380 009. Telephone No.:2754 6279

S/d. S/d. S/d.

(Deepak J. Shah)(D. P. Negi)(Manoj Kumar K)ProprietorAdmn. Officer (PA&F)Acting Director

Place:AhmedabadPlace: AhmedabadDate:18.05.2007Date: 18.05.2007

Appendix I

INFLIBNET Council (As on 31.03.2007)

Prof. S.K.Thorat (President)

Chairman

University Grants Commission Bahadur Shah Zafar Marg

New Delhi 110 002

Dr. Moolchand Sharma (Member)

Vice-Chairman

University Grants Commission Bahadur Shah Zafar Marg

New Delhi 110 002

Chairman (Member)

All India Coucil for Technical Education

Indira Gandhi Sports Complex

I P Estate, Ring Road New Delhi 110 002

Prof. Samir K. Brahmchari

Director General (Member) C S I R, Anusandhan Bhawan 2, Rafi Marg, New Delhi 110 001

Prof. Ardre Beteille, FBA (Member)

Chairman

Indian Council of Social Science Research

JNU Institutional Area,

Aruna Asaf Ali Road

New Delhi 110 067

Director (Nominated)

National Library

Belvedr, Kolkatta 700 027

Dr. Kamlakar Singh (Nominated)

Vice-Chancellor

M P Bhoj (Open) University

Red Cross Bhavan

Shivaji Nagar, Bhopal 462 016

Dr. A Balasubramanian (Nominated)

Director

Educational Multimedia Research Centre

Deptt. of Communication & Journalism

University of Mysore

Crawford Hall, Mysore 570 005

Dr. T.A.V Murthy (till 30.06.2006)

Dr. Jagdish Arora (Since 30.08.2007)

Director

(Member Secretary)

INFLIBNET Centre

Near Gujarat University Guest House

PB No.4116, Navrangpura

Ahmedabad 380 009

Annexure II

Governing Board (As on 31.03.2007)

Prof. S.K.Khanna (Chairman)

Jaypee Institute of Information Technology University Campus A-10, Sector – 62 Noida 201 307

Dr. Moolchand Sharma (Member)

Vice-Chairman
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi 110 002

Dr. T.R.Kem (Member)

Secretary
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi 110 002

Dr. Parimal Trivedi (Member)

Vice Chancellor Gujarat University, Navrangpura Ahmedabad 380 009

Dr. K. Narayana Rao (Member)

Member Secretary
A I C T E
Indira Gandhi Sports Complex
I P Estate, Ring Road
New Delhi 110 002

Prof. J.A.K. Tareen (Nominated)

Vice-Chancellor Pondicherry University R V Nagar, Kalapet Pondicherry 605 014 Prof. P.S.Zacharias (Nominated)

Vice Chancellor Goa University, Taleigao Plateau Goa 403 206

Dr. S.B.Mujumdar (Nominated)

Vice-Chancellor Symbiosis Institute of International Business, Symbiosis Infotech Campus, Plot No. 15, Rajiv Gandhi Infotech Park, MIDC, Hiniewadi, Pune – 411 057

Dr. Muttayya Koganuramath

(Nominated)
Librarian
Sri Dorabji Tata Memorial library
Tata Institute of Social Sciences
Deonar, Mumbai 400 088

Prof. Rajiv Sangal (Nominated)

Director
International Institute of
Information Technology
Gachibowli, Hyderabad 500 091

Dr. M.Moni (Nominated)
Deputy Director General
Deptt. of Information Technology
Ministry of Communication and IT
National Informatics Centre
'A' Block, CGO Complex
Lodhi Road, New Delhi 110 003

Dr. Naresh Kumar Dadhich (Nominated)

Director

Inter University Centre for Astronomy

and Astrophysics

Ganeshkhind, Pune 411 007

Dr. T.A.V. Murthy (till 30.06.2006)

Dr. Jagdish Arora (Since 30.08.2007)

Director

(Member Secretary)

INFLIBNET Centre

Near Gujarat University Guest House

PB No.4116, Navrangpura

Ahmedabad 380 009

Appendix III

Finance Committee

(As on 31.03.2007)

Prof. S.K.Khanna (Chairman)
Jaypee Institute of Information
Technology University Campus
A-10, Sector – 62
Noida 201 307

Dr. T.R.Kem Secretary

University Grants Commission Bahadur Shah Zafar Marg New Delhi 110 002

Prof. R.K.Chauhan

Addl. Secretary & Financial Adviser University Grants Commission Bahadur Shah Zafar Marg New Delhi 110 002

Prof. Rajiv Sangal

Director International Institute of Information Technology Gachibowli, Hyderabad 500 091

Dr.(Mrs.) Renu Batra

Joint Secretary University Grants Commission Bahadur Shah Zafar Marg New Delhi 11 00 02 Dr. T.A.V Murthy (till 30.06.2006)
Dr. Jagdish Arora (Since 30.08.2007)

Director (Member)

INFLIBNET Centre

Near Gujarat University Guest House

Post Box No.4116

Navrangpura, Ahmedabad 380 009

Sh. Manoj Kumar K.

Scientist-D (CS)
INFLIBNET Centre
Near. Gujarat University Guest House
Post Box No.4116
Navrangpura, Ahmedabad 380 009

Sh. D.P.Negi (Non-Member Secretary)
Admin Officer (PA&F)
INFLIBNET Centre
Near Gujarat University Guest House
Post Box No.4116, Navrangpura

Ahmedabad 380 009

Appendix IV

Staff of the Centre (As on 31.03.2007)

Scientific & Technical Staff

Sr. No.	Name of the employee	Designation	
1	Dr. T.A.V. Murthy	Director (Till 30.05.2006)	
2	Dr. Jagdish Arora	Director (Since 30.08.2007)	
3	Shri S. M. Salgar	Scientist-G (Retired on	
		30.02.2007)	
4	Shri Manoj Kumar K.	Scientist-D (CS)	
5	Shri Prem Chand	Scientist-C (LS)	
6	Shri B Ramesh	Scienstist-B (CS) (Resigned on	
		December 2006)	
6	Shri Yatrik R. Patel	Scientist-B (CS)	
7	Shri S. K. Sharma	Scientist-B (CS)	
8	Shri H. G. Hosamani	Scientist-B (LS)	
9	Shri K. Prakash	Sci. Tech. Officer- I (LS)	
10	Shri R. K. Chandrakar	Sci. Tech. Officer- I (LS)	
11	Shri Umesh H. Gohel	Sci. Tech. Assistant-II (CS)	

Administrative & Support Staff

1	Shri C. K. Shah	Admn. Officer (G.S.)
2	Shri D. P. Negi	Admn. Officer (PA&F)
3	Shri Ashok P. Achtani	Section Officer
4	Shri Sanjay R. Shah	Office AsstII
5	Shri S. F. Vanikar	Office AsstII
6	Smt. S. M. Munshi	Personal Astt.
7	Mrs. Yamini J. Dave	Clerk-cum- Typist
8	Mrs. R. B. Pendharkar	Clerk-cum- Typist
9	Shri Ankur B. Parikh	Clerk-cum- Typist
10	Shri Shyam T. Yadav	Helper
11	Shri Vinod B. Dantani	Helper
12	Shri Bakul M. Parmar	Lab. Attendant]

Project Scientists

1	Ms. Elora Parida	Project Scientist
2	Ms. Satyabati Devi Thiyam	Project Scientist
3	Ms. Vaishali N. Parikh	Project Scientist
4	Shri Suresh Kumar	Project Scientist

Trainees

1	Smt. Manisha R. Amrelia	Trainee (Library)
2.	Shri Deepak N Makwana	Trainee (DEO)
3.	Shri Amit N Parmar	Trainee (DEO)
4.	Shri.Maqsud Shaikh	Trainee (DEO)

Appendix V

No. of Records Contributed by Participating Universities in the Books Database

S.No.	University Name	Records in Unio Database
1	Alagappa University	43616
2	Aligarh Muslim University	136504
3	Amravati University	27297
4	Andhra University	217049
5	Anna University	98639
6	Annamalai University	450624
7	Arunachal University	22358
8	Assam University, Silchar	3270
9	Avinashlingam Institute for Home Science	46281
10	Babasaheb Bhimrao Ambedkar University, Lucknow	9574
11	Banaras Hindu University, Varanasi	4992
12	Banasthali Vidyapith, Banasthali	56587
13	Bangalore University, Bangalore	70603
14	Bharathiar University	80327
15	Bharathidasan University	21177
16	Bhavnagar University	27284
17	Birla Institute of Technology & Science, Pilani	72012
18	Chhatrapati Shahu Ji Maharaj University	3444
19	Cochin Uni. of Science & Technology	71903
20	Devi Ahilya Vishwavidyalaya	7762
21	Dibrugarh University	57362
22	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	34909
23	Dr. Bhimrao Ambedkar Agra University	88259
24	Gandhigram Rural Institute	25145
25	Gauhati University, Guwahati	2135
26	Goa University	95205
27	Gokhale Institute of Politics & Economics	82581
28	Gujarat Vidyapith, Ahmedabad	441870
29	Gulbarga University	50712
30	Guru Jambheshwar University	17476

31	Gurukula Kangri Vishwavidyalaya	18637
32	Himachal Pradesh University, Simla	43680
33	Indian Institute of Technology, Roorkee	68451
34	Indira Kala Sangeet Vishwavidyalaya	6933
35	International Inst. for Pop. Sciences	51132
36	Jadavpur University, Kolkatta	222481
37	Jain Vishva Bharati Institute	4712
38	Jamia Hamdard University	37477
39	Jiwaji University, Gwalior (16000+9000)	11923
40	Kakatiya University	56645
41	Kameshwar Singh Darbhangha Sanskrit	1349
42	Kannada University	34577
43	Karnatak University	130501
44	Kumaun University	3827
45	Kurukshetra University	198633
46	Kuvempu University	15913
47	Madurai Kamraj University	194413
48	M S University of Baroda, Vadodara	50793
49	Maharshi Dayanand Saraswati University, Ajmer	8214
50	Mahatma Gandhi Gramoday Vishwavidyalaya, Chitrakoot	3532
51	Mahatma Gandhi University, Kottayam	28970
52	Mangalore University, Mangalore	30560
53	Manipur University	51862
54	Manonmaniam Sundaranar University	30272
55	Maulana Azad National Urdu University	9259
56	Mohanlal Sukhadia University, Udaipur	65102
57	Nagaland University	15549
58	Nagarjuna University	26488
59	North Gujarat University	24140
60	North Eastern Hill University, Shilong	84477
61	North Maharashtra University	19216
62	Osmania University, Hyderabad	54059
63	Pandit Ravishankar Shukla University	61066
64	Panjab University, Chandigarh	205168
65	Pondicherry University	37167
66	Potti Sreeramulu Telugu University	19292
67	Punjabi University, Patiala	26906
	•	•

68	Rabindra Bharati University	10461
69	Rani Durgawati Vishwavidyalaya	1554
70	Rashtriya Sanskrit Vidyapeetha	16649
71	Sambalpur University	21905
72	Sampurnand Sanskrit Vishwavidyalaya	6046
73	Sardar Patel University, Vallabh Vidhyanagar, Anand	144472
74	Saurashtra University, Rajkot	20831
75	Shivaji University, Kolhapur	60500
76	SNDT Women's University, Mumbai	56095
77	South Gujarat University	24273
78	Sri Krishnadevaraya University, Anantapur (Andhra Pradesh)	34632
79	Sri Padmavati Mahila Vishwavidyalaya	37086
80	Sri Sathya Sai Institute of Higher Learning	28918
81	Sri Venkateswara University, Tirupati	56522
82	Swami Ramanand Tirth Maratawada University	12498
83	Tamil University	7213
84	Tata Institute of Social Sciences, Mumbai	50566
85	Tezpur University	18414
86	Thapar Institute of Engineering and Technology, Patiala	13806
87	Tilak Maharashtra Vidyapith	18175
88	Tilak Manjhi Bhagalpur University	3142
89	University of Allahabad, Allahabad	5300
90	University of Calcutta, Kolkatta	12745
91	University of Calicut, Calicut	27799
92	University of Hyderabad, Hyderabad	121986
93	University of Jammu, Jammu	15539
94	University of Kalyani	1035
95	University of Kashmir, Kashmir	47771
96	University of Kerala, Kottayam	109650
97	University of Madras, Chennai	49867
98	University of Mumbai, Mumbai	106343
99	University of North Bengal	66672
100	University of Pune, Pune	35591
101	Vidyasagar University, Vidyasagar	17695
102	Visva Bharati University, Santiniketan	6336
	Total Records	5,88,420

Appendix VI

No. of Records Contributed by the Participating Universities in the

Serials Holding Database

		Records
1.	Aligarh Muslim University, New Delhi	1596
2.	Andhra University	4275
3.	Annamalai University	955
4.	Banaras Hindu University	849
5.	Banasthali Vidyapith	275
6.	Bangalore University	225
7.	Berhampur University	153
8.	Bharati Vidyapeeth	120
9.	Bhavnagar University	193
10.	Birla Institute of Technology & Science	1577
11.	Central Institute of English & Foreign Languages	670
12.	Central Institute of Higher Tibetan Studies	257
13.	Cochin University of Science & Technology	416
14.	Deccan College Post Graduate and Research Institute	316
15.	Dr.B R Ambedkar Open University	314
16.	Dr.Babasaheb Ambedkar Marathwada University	241
17.	Dr.Bhim Rao Ambedkar University	14
18.	Dr.Harisingh Gour Vishwavidyalaya	193
19.	Dr.Panjabrao Deshmukh Krishi Vidyapeeth	204
20.	Gauhati University	211
21.	Gujarat University	144
22.	Gulbarga University	775
23.	Himachal Pradesh Krishi Vishwavidyalaya	81
24.	Himachal Pradesh University	676
25.	Indian Institute of Management, Bangalore	1023
26.	Indian Institute of Management, Indore	338
27.	Indian Institute of Management, Kozhikode	346
28.	Indian Institute of Management, Lucknow	867
29.	Indian Institute of Technology Roorkee(University of Roorkee)	402
30.	Indian Institute of Technology, Chennai	599

31.	Indian School of Mines	281
32.	Indira Gandhi Institute of Development Research	424
33.	Indira Kala Sangit Vishwavidyalaya	110
34.	International Institute for Population Sciences	378
35.	Jadavpur University	1080
36.	Jai Narain Vyas University, Jodhpur	54
37.	Jamia Hamdard	191
38.	Jawaharlal Nehru University	1319
39.	Kakatiya University	142
40.	Kannada University, Hampi	137
41.	Karnatak University	327
42.	Kasturba Medical College, Manipal-576119	789
43.	Kathmandu University	125
44.	Kurukshetra University	1575
45.	Kuvempu University	332
46.	Madurai Kamaraj University	531
47.	Maharaja Sayajirao University of Baroda	316
48.	Maharshi Dayanand Saraswati University	72
49.	Maharshi Dayanand University	59
50.	Mahatma Gandhi University	193
51.	Mangalore University	488
52.	Manipal Academy of Higher Education	304
53.	Manipal Insititute of Management, Manipal	22
54.	Marathwada Krishi Vidyapeeth	931
55.	Maulana Azad National Urdu University	45
56	Mohanlal Sukhadia University	316
57.	Mother Teresa Women's University	124
58.	Nagarjuna University	302
59.	National Law School of India University	76
60.	Pandit Ravishankar Shukla University	643
61.	Panjab University	2738
62.	Pondicherry University	365
63.	Punjab Agricultural University	2921
64.	Punjabi University	530
65.	Rabindra Bharati University	214
66.	Rashtriya Sanskrit Vidyapeeth	199
67.	Sanjay Gandhi Postgraduate Institute of Medical Sciences	351

68.	Sardar Patel University	427
69.	Saurashtra University	24
70.	Sher-e-Kashmir University of Agricultural	
	Sciences and Technology of Kashmir	347
71.	Shreemati Nathibai Damodar Thackersey Women's University	101
72.	Sri Venkateswara University	193
73.	Tata Institute of Social Sciences	1318
74.	Tilka Manjhi Bhagalpur University	284
75.	University of Burdwan	57
76.	University of Calcutta	206
77.	University of Calicut	648
78.	University of Delhi	986
79.	University of Hyderabad	1545
80.	University of Jammu	220
81.	University of Kerala	1527
82.	University of Lucknow	217
83.	University of Madras	285
84.	University of Mumbai	779
85.	University of Mysore	1531
86.	University of North Bengal	470
87.	University of Pune	1247
88.	Visva Bharati	284
89.	West Bengal University of Animal & Fishery Sciences	159
	Total	50,164

Appendix VII

No. of Records Contributed by Universities in the Theses Database

SI.No	University Name	Records
1	Acharya N G Ranga Agricultural University	174
2	Alagappa University	102
3	Aligarh Muslim University	2994
4	All India Institute of Medical Sciences	208
5	Amravati University	90
6	Andhra University	5748
7	Anna University	653
8	Annamalai University	675
9	Arunachal University	33
10	Assam Agricultural University	52
11	Assam University	38
12	Avinashilingam Institute for Home Science &	
	Higher Education for Women	86
13	Awadhesh Pratap Singh Vishwavidyalaya	894
14	B N Mandal University	244
15	Babasaheb Bhimrao Ambedkar Bihar University	848
16	Babasaheb Bhimrao Ambedkar University	2
17	Banaras Hindu University	15512
18	Banasthali Vidyapith	68
19	Bangalore University	1489
20	Barkatullah Vishwavidyalaya	852
21	Berhampur University	370
22	Bharathiar University	68
23	Bharathidasan University	125
24	Bharati Vidyapeeth	2
25	Bhavnagar University	631
26	Bidhan Chandra Krishi Vishwavidyalaya	406
27	Birla Institute of Technology	17
28	Birla Institute of Technology & Science	175
29	Birsa Agricultural University	86
30	Central Institute of English & Foreign Languages	99
31	Central Institute of Fisheries Education	2

32	Ch.Charan Singh Haryana Agricultural University	1032
33	Ch.Charan Singh University	1926
34	Ch.Sarwan Kumar Himachal Pradesh Krishi Vishwavidyalaya	8
35	Chandra Shekhar Azad University of Agriculture & Technology	372
36	Chhatrpati Shahu Ji Maharaj Kanpur University	1836
37	Cochin University of Science & Technology	863
38	Dakshina Bharat Hindi Prachar Sabha	22
39	Dayalbagh Educational Institute	103
40	Deccan College Post Graduate and Research Institute	46
41	Deendayal Upadhyay Gorakhpur University	1615
42	Devi Ahilya Vishwavidyalaya	1825
43	Dibrugarh University	506
44	Dr.Babasaheb Ambedkar Marathwada University	1673
45	Dr.Bhim Rao Ambedkar University	3675
46	Dr.Harisingh Gour Vishwavidyalaya	2038
47	Dr.Panjabrao Deshmukh Krishi Vidyapeeth	194
48	Dr.Ram Manohar Lohia Awadh University	333
49	Dravidian University	1
50	Fakir Mohan University	3
51	Forest Research Institute	211
52	Gandhigram Rural Institute	136
53	Gauhati University	2636
54	Goa University	140
55	Gokhale Institute of Politics & Economics	2
56	Govind Ballabh Pant University of Agriculture & Technology	622
57	Gujarat Agricultural University	152
58	Gujarat Ayurved University	45
59	Gujarat University	1338
60	Gujarat Vidyapith	44
61	Gulbarga University	346
62	Guru Ghasidas University	492
63	Guru Jambheshwar University	27
64	Guru Nanak Dev University	569
65	Gurukula Kangri Vishwavidyalaya	127
66	Hemwati Nandan Bahuguna Garhwal University	456
67	Himachal Pradesh Krishi Vishwavidyalaya	348
68	Himachal Pradesh University	1170
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69	Indian Agricultural Research Institute	1998
70	Indian Institute of Science	2177
71	Indian Institute of Technology	1160
72	Indian Institute of Technology (University of Roorkee)	2515
73	Indian Institute of Technology, Chennai	1959
74	Indian Institute of Technology, Delhi	2054
75	Indian Institute of Technology, Kanpur	1123
76	Indian Institute of Technology, Kharagpur	1449
77	Indian School of Mines	355
78	Indian Statistical Institute	125
79	Indian Veterinary Research Institute	111
80	Indira Kala Sangit Vishwavidyalaya	134
81	International Institute for Population Sciences	2
82	Jadavpur University	1292
83	Jai Narain Vyas University, Jodhpur	765
84	Jai Prakash Vishwavidyalaya	7
85	Jain Vishva Bharati Institute	22
86	Jamia Hamdard	316
87	Jamia Milia Islamia	632
88	Jawaharlal Nehru Krishi Vishwa Vidyalaya	204
89	Jawaharlal Nehru Technological University	50
90	Jawaharlal Nehru University	2831
91	Jiwaji University	1182
92	Kakatiya University	2429
93	Kameshwra Singh Darbhangha Sanskrit University	240
94	Kannada University, Hampi	85
95	Kannur University	1
96	Karnatak University	1748
97	Kavikulguru Kalidas Sanskrit Visvavidyalaya	2
98	Kerala Agricultural University	101
99	Konkan Krishi Vidyapeeth	24
100	Kota Open University	43
101	Kumaun University	1013
102	Kurukshetra University	4068
103	Kuvempu University	237
104	Lalit Narayan Mithila University	178
105	M J P Rohilkhand University	1304

106	Madhya Pradesh Bhoj University	1
107	Madurai Kamaraj University	953
107	Magadh University	1103
109	Maharaja Sayajirao University of Baroda	1749
110	Maharana Pratap University of Agriculture and Technology	129
111	Maharashtra Animal and Fishery Sciences University	1 1
112	Maharshi Dayanand Saraswati University	47
113	Maharshi Dayanand University	1266
114	Maharshi Mahesh Yogi Vedic University	2
115	Mahatma Gandhi Kashi Vidyapeeth	142
116	Mahatma Gandhi University	12
117	Mahatma Phule Krishi Vidyapeeth	347
118	Makhanlal Chaturvedi National University of Journalism	2
119	Mangalore University	55
120	Manipur University	326
121	Manonmaniam Sundaranar University	11
122	Marathwada Krishi Vidyapeeth	416
123	Mizoram University, Aizwal	11
124	Mohanlal Sukhadia University	642
125	Mother Teresa Women's University	7
126	Nagaland University	16
127	Nagarjuna University	554
128	Nagpur University, Nagpur	3552
129	Narendra Deva University of Agriculture & Technology	111
130	National Brain Research Centre	2
131	National Dairy Research Institute	170
132	National Institute of Mental Health & Neuro Sciences	156
133	National Institute of Pharmaceutical Education and Research	35
134	National Institute of Technology Silchar	9
135	North Eastern Hill University	816
136	North Gujarat University	127
137	North Maharashtra University	110
138	North Orissa University	1
139	Orissa University of Agriculture and Technology	92
140	Osmania University	6916
141	Pandit Ravishankar Shukla University	1006
142	Panjab University, Chandigarh	3105

143	Patna University, Patna	727
144	Pondicherry University, Pondicherry	29
145	Postgraduate Institute of Medical Education and Research	258
146	Potti Sriramulu Telugu University	135
147	Punjab Agricultural University	1624
148	Punjabi University	964
149	Rabindra Bharati University	240
150	Rajasthan Agriculture University	167
151	Rajendra Agricultural University	166
152	Rajiv Gandhi Proudyogiki Vishwavidyalaya	28
153	Ranchi University	336
154	Rani Durgavati Vishwavidyalaya, Jabalpur	1769
155	Rashtriya Sanskrit Sansthan	35
157	Rashtriya Sanskrit Vidyapeeth	60
158	Sambalpur University	813
159	Sampurnanand Sanskrit Vishwavidyalaya	80
160	Sardar Patel University	916
161	Saurashtra University	720
162	Sher-e-Kashmir University of Agricultural	
	Sciences and Technology of Kashmir	37
163	Sher-E-Kashmir University of Agricultural	
	Sciences and Technology Jammu	1
164	Shivaji University	1193
165	Shreemati Nathibai Damodar Thackersey Women's University	706
166	Shri Jagannath Sanskrit Visvavidyalaya	72
167	Siddhu Kanhu University	2
168	Sikkim-Manipal University of Health,	
	Medical & Technological Sciences	1
169	South Gujarat University	227
170	Sree Chitra Tirunal Institute for Medical Sciences and Technology	7
171	Sree Sankaracharya University of Sanskrit	4
172	Sri Krishnadevaraya University	346
173	Sri Padmavati Mahila Visvavidyalayam	29
174	Sri Sathya Sai Institute of Higher Learning	27
175	Sri Venkateswara University	2520
176	Swami Ramanand Teerth Marathwada University	256
177	Tamil Nadu Agricultural University	405

178	Tamil Nadu Dr M G R Medical University	3
179	Tamil Nadu Veterinary and Animal Sciences University	147
180	Tata Institute of Fundamental Research	20
181	Tata Institute of Social Sciences	45
182	Tezpur University	21
183	Thapar Institute of Engineering and Technology	3
184	Tilak Maharashtra Vidyapeeth	5
185	Tilka Manjhi Bhagalpur University	414
186	Tripura University	22
187	University of Agricultural Sciences, Bangalore	329
188	University of Allahabad	1947
189	University of Bundelkhand	283
190	University of Burdwan	1406
191	University of Calcutta	8265
192	University of Calicut	892
193	University of Delhi	4822
194	University of Hyderabad	499
195	University of Jammu	857
196	University of Kalyani	354
197	University of Kashmir	273
198	University of Kerala	1454
199	University of Lucknow	2407
200	University of Madras	3947
201	University of Mumbai	6012
202	University of Mysore	1049
203	University of North Bengal	683
204	University of Pune	3139
205	University of Rajasthan	2358
205	Utkal University, Bhubneswar	1113
206	Utkal University of Culture	1
207	Uttar Pradesh Technical University	28
208	Veer Kunwar Singh University	54
209	Vikram University, Ujjain	1788
210	Vinoba Bhave University	202
211	Visva Bharati University, Shanti Niketan, West Bengal	483
212	Visvesvaraya National Institute of Technology	9
213	Yashwantrao Chavan Maharashtra Open University	20
	Total	1,75,206

Appendix VIII

State-Wise list of the SOUL Installation

State-wise Installation of Soul Software (As on 31-03-2007)

Sr.	Name of the State	No. of
No.		Installations
1	Jammu & Kashmir	39
2	Himachal Pradesh	10
3	Punjab	68
4	Haryana	15
5	Uttaranchal	11
6	Delhi	15
7	Uttar Pradesh	26
8	Rajasthan	31
9	Gujarat	283
10	Daman	2
11	Madhya Pradesh	114
12	Bihar	9
13	Chhattis Garh	8
14	Jharkhand	2
15	Maharashtra	202
16	Goa	1
17	Andhra Pradesh	182
18	Karnataka	25
19	Kerala	84
20	Tamil Nadu	22
21	Pondicherry	2
22	Orissa	6
23	West Bengal	41
24	Manipur	12
25	Meghalaya	6
26	Mizoram	9
27	Nagaland	8
28	Arunachal Pradesh	6
29	Assam	68
30	Nepal	2
31	Tripura	3
	TOTAL	1312

Appendix IX

Universities that are Provided Internet Bandwidth under the UGC-Infonet Connectivity Programme

Sr.	University Name	Present
No.		Connectivity
1	Vidyasagar University, Midnapore, West Bengal	BB VSAT-1 Mbps
2	Pandit Ravishankar Shukla, Raipur, Chhattisgarh	SCPC-1 Mbps
3	Manipur University, Imphal, Manipur	SCPC-1 Mbps
4	North Eastern Hill University, Shillong, Meghalaya	SCPC-1 Mbps
5	Univ. of Kashmir, Srinagar, Jammu and Kashmir	SCPC-1 Mbps
6	University of Jammu, Jammu and Kashmir	SCPC-1 Mbps
7	Dibrugarh University, Dibrugarh, Assam	SCPC-256 Kbps
8	Guru Jambeshwar University, Hisar, Haryana	SCPC-256 Kbps
9	Bharathidasan University, Tiruchirapalli, Tamil Nadu	SCPC-512 Kbps
10	Aligarh Muslim University, Aligarh, U.P.	SCPC-512 Kbps
11	Assam University, Silchar, Assam	SCPC-512 Kbps
12	Birla Institute of Technology & Science, Pilani, Rajasthan	SCPC-512 Kbps
13	Birla Institute of Technology, Ranchi, Jharkhand	SCPC-512 Kbps
14	Goa University, Taleigao Plateau, Goa	SCPC-512 Kbps
15	Gujarat University, Ahmedabad, Gujarat	SCPC-512 Kbps
16	Gullbarga University, Gulbarga, Karnataka	SCPC-512 Kbps
17	Himachal Pradesh University, Shimla, Himachal Pradesh	SCPC-512 Kbps
18	Karnatak University, Dharwad, Karnataka	SCPC-512 Kbps
19	Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	SCPC-512 Kbps
20	Mangalore University, Mangalore, Karnataka	SCPC-512 Kbps
21	Nagpur University, Nagpur, Maharashtra	SCPC-512 Kbps
22	Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat	SCPC-512 Kbps
23	Thapar Institute of Engineering and Technology,	
	Patiala, Punjab	SCPC-512 Kbps
24	University of North Bengal, Distt Darjeeling, West Bengal	SCPC-512 Kbps
25	VisvaBharati, Shantiniketan, West Bengal	SCPC-512 Kbps
26	Bharathiar University, Coimbatore, Tamil Nadu	SCPC-512 Kbps
27	Banasthali Vidyapith, Banasthali, Rajasthan	SCPC-512 Kbps
28	Central Inst. of Higher Tibetan Studies, Varanasi, U.P.	SCPC-512 Kbps
29	Dr. Babasaheb A. M. University, Aurangabad, Maharashtra	SCPC-512 Kbps

30	North Gujrat University, Patan, Gujarat	SCPC-512 Kbps		
31	North Maharashtra University, Jalgaon, Maharashtra	SCPC-512 Kbps		
32	South Gujrat University, Surat, Gujarat	SCPC-512 Kbps		
33	Guru Nanak Dev University, Amritsar, Punjab	SCPC-512 Kbps		
34	Mohan Lal Sukhadia University, Udaipur, Rajasthan	SCPC-512 Kbps		
35	Annamalai University, Chennai, Tamil Nadu	SCPC-512 Kbps		
36	Tezpur University, Tezpur, Assam	SCPC-512 Kbps		
37	Hemwati Nandan Bahuguna Garhwal University,			
	Srinagar, Uttaranchal	SCPC-512 Kbps		
38	Shree Venkateswara University, Tirupati	SCPC-512 Kbps		
39	Madurai Kamraj University, Madurai, Tamil Nadu	SCPC-512 Kbps		
40	Saurashtra University, Rajkot, Gujarat	SCPC-512 Kbps		
41	Shivaji University, Kolhapur, Maharashtra	SCPC-512 Kbps		
42	Swami Raman & Teerth Marathwada University,			
	Nanded, Maharashtra	SCPC-512 Kbps		
43	Tripura University, Agartala, Tripura	SCPC-512 Kbps		
44	University of Calicut, Kozhikode, Kerala LL-1 Mbps(
45	Cochin University of Science& Technology, Cochin, Kerala	LL-1 Mbps(1:3)		
46	University of Kerela, Thiruvananthapuram, Kerala	LL-1 Mbps(1:3)		
47	Mahatama Gandhi University, Kottayam, Kerala	LL-1 Mbps(1:3)		
48	University of Hyderabad, Hyderabad	LL-2 Mbps(1:3)		
49	University of Allahabad, Allahabad, U.P.	LL-2 Mbps(1:3)		
50	Anna University.,Chennai, Tamil Nadu	LL-2 Mbps(1:3)		
51	Jadavpur University, Kolkata, West Bengal	LL-2 Mbps(1:3)		
52	Jamia Hamdard University, Delhi	LL-2 Mbps(1:3)		
53	Jawaharlal Nehru University, Delhi	LL-2 Mbps(1:3)		
54	University of Lucknow, Lucknow, U.P.	LL-2 Mbps(1:3)		
55	University of Madras, Chennai, Tamil Nadu	LL-2 Mbps(1:3)		
56	University of Mumbai, Mumbai, Maharashtra	LL-2 Mbps(1:3		
57	Osmania University, Hyderabad	LL-2 Mbps(1:3)		
58	University of Rajasthan, Jaipur, Rajasthan	LL-2 Mbps(1:3)		
59	Tata Institute of Social Sciences, Mumbai, Maharashtra	LL-2 Mbps(1:3)		
60	Utkal University, Bhubaneswar, Orissa	LL-2 Mbps(1:3)		
61	Guru Gobind Singh Indraprastha University, Delhi	LL-2 Mbps(1:3)		
62	Maharishi Dayanand University, Rohtak, Haryana	LL-2 Mbps(1:3)		
63	SNDT University, Mumbai, Maharashtra	LL-2 Mbps(1:3)		
		1		
64	Jamia Milia Islamia University, Delhi	LL-2 Mbps(1:3)		

66	Sampurnanand Sanskrit Vishwavidyalaya, Varanasi, U.P.	LL-256 Kbps(1:3)
67	abasaheb Bhimrao Ambedkar University, Lucknow, U.P. LL-256 Kbps(
68	Central Inst. of English & Foreign Language, Hyderabad	LL-256 Kbps(1:3)
69	Gokhale Inst. of Politics & Economics, Pune, Maharashtra	LL-256 Kbps(1:3)
70	Kalyani University, Kalyani, West Bengal	LL-256 Kbps(1:3)
71	Mahatma Gandhi Kashi Vidyapeeth, Varanasi, U.P.	LL-256 Kbps(1:3)
72	National Law School of India University, Bangalore, Karnataka	LL-256 Kbps(1:3)
73	Potti Sreeramulu Telugu University, Hyderabad	LL-256 Kbps(1:3)
74	Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeeth, Delhi	LL-256 Kbps(1:3)
75	Tilak Maharashtra Vidyapeeth Bhavan, Pune, Maharashtra	LL-256 Kbps(1:3)
76	Banglore University, Bangalore, Karnataka	LL-512 Kbps(1:3)
77	Barkatullah Vishwavidyalaya, Bhopal, Madhya Pradesh	LL-512 Kbps(1:3)
78	Guwahati University, Guwahati, Assam	LL-512 Kbps(1:3)
79	University of Mysore, Mysore, Karnataka	LL-512 Kbps(1:3)
80	Bengal Engineering & Science University,	
	Howrah, West Bengal	LL-512 Kbps(1:3)
81	Bharati Vidyapeeth, Pune, Maharashtra	LL-512 Kbps(1:3)
82	Chaudhary Charan Singh University, Meerut, U.P.	LL-512 Kbps(1:3)
83	Deccan College Post G&R Institute, Pune, Maharashtra	LL-512 Kbps(1:3)
84	Devi Ahilya Vishwavidyalaya, Indore, Madhya Pradesh	LL-512 Kbps(1:3)
85	Dr. Bhim Rao Ambedkar Univ, Agra,U.P.	LL-512 Kbps(1:3)
86	Jai Narain Vyas University, Jodhpur, Rajasthan	LL-512 Kbps(1:3)
87	Maulana Azad National Urdu University, Hyderabad	LL-512 Kbps(1:3)
88	Rabindra Bharati University, Kolkata, West Bengal	LL-512 Kbps(1:3)
89	Ranchi University, Ranchi, Jharkhand	LL-512 Kbps(1:3)
90	Vikram University, Ujjain, Madhya Pradesh	LL-512 Kbps(1:3)
91	Kurukshetra Univ, Kurukshetra, Haryana	LL-512 Kbps(1:3)
92	Punjabi University, Patiala, Punjab	BB VSAT-256 Kbps
93	Dr. Harisingh Gour Vishwavidhlaya, Sagar, Madhya Pradesh	BB VSAT-256 Kbps
94	MJP Rohilkhand University, Bareilly, U.P.	BB VSAT-256 Kbps
95	Patna University, Patna, Bihar	BB VSAT-256 Kbps
96	Pondicherry University, Pondichery	BB VSAT-256 Kbps
97	Sri Padmavati Mahila Visvavidyalayam, Tirupati	BB VSAT-256 Kbps
98	Tilka Manjhi Bhagalpur University, Bhagalpur, Bihar	BB VSAT-256 Kbps
99	Alagappa University, Karaikudi, Tamil Nadu	BB VSAT-256 Kbps
100	Amravati University, Amaravati, Maharashtra	BB VSAT-256 Kbps
101	Avinashilingam Institute of Home Science,	
	Coimbatore, Tamil Nadu	BB VSAT-256 Kbps

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102	Awadhesh Pratap Singh University, Rewa, Madhya Pradesh	BB VSAT-256 Kbps		
103	Babasaheb Bimrao Ambedkar Bihar University,	DD VOAT OF S		
40:	Muzaffarpur, Bihar	BB VSAT-256 Kbps		
104	Berhampur University, Behrampur, Orissa	BB VSAT-256 Kbps		
105	Bhavnagar University, Bhavnagar, Gujarat	BB VSAT-256 Kbps		
106	Burdwan University, Burdwan, West Bengal	BB VSAT-256 Kbps		
107	Dayalbagh Educational Institute, Agra, U.P.	BB VSAT-256 Kbps		
108	Dr. Ram Manohar Lohia Avadh University, Faizabad, U.P.	BB VSAT-256 Kbps		
109	Gandhigram Rural Institute, Dindigul Dist., Tamil Nadu	BB VSAT-256 Kbps		
110	Gujrat Vidyapith, Ahmedabad, Gujarat	BB VSAT-256 Kbps		
111	Guru Ghasidas University, Bilaspur, Chhattisgarh	BB VSAT-256 Kbps		
112	Gurukula Kangri Vishwavidyalay, Hardwar, Uttaranchal	BB VSAT-256 Kbps		
113	Indira Kala Sangeet Vishwavidyalaya, Khairagarh,			
	Chhattisgarh	BB VSAT-256 Kbps		
114	Jain Vishwa Bharati Inst, Ladnun, Rajasthan	BB VSAT-256 Kbps		
115	Jiwaji University, Gwalior, Madhya Pradesh	BB VSAT-256 Kbps		
116	Kameshwara S. Darbhanga Sanskrit University,			
	Darbhanga, Bihar	BB VSAT-256 Kbps		
117	Kannada University, Distt. Bellary, Karnataka	BB VSAT-256 Kbps		
118	Maharishi Dayan & Saraswati Univ., Ajmer, Rajasthan	BB VSAT-256 Kbps		
119	Mother Teresa Womens University, Kodaikanal, Tamil Nadu	BB VSAT-256 Kbps		
120	V B S Purvanchal University, Jaunpur, U.P.	BB VSAT-256 Kbps		
121	Rajasthan Vidyapith, Udaipur, Rajasthan	BB VSAT-256 Kbps		
122	Rani Durgavati Vishwavidyalaya, Jabalpur, Madhya Pradesh	BB VSAT-256 Kbps		
123	Rashtriya Sanskrit Vidyapeeth, Tirupati	BB VSAT-256 Kbps		
124	Sambalpur University, Sambhalpur, Orissa	BB VSAT-256 Kbps		
125	Sri Chandresekharendra S. Viswa Mahavidyalaya,			
	Kancheepuram	BB VSAT-256 Kbps		
126	Shree Jagannath Sanskrit Visvadyalaya, Puri, Orissa	BB VSAT-256 Kbps		
127	Sri Krishnadevaraya University, Anantapur	BB VSAT-256 Kbps		
128	Sri Sathya Sai Inst. of Higher Learning, Anantapur	BB VSAT-256 Kbps		
129	Tamil University, Thanjavur, Tamil Nadu	BB VSAT-256 Kbps		
130	Bundelkhand University, Jhansi, U.P.	BB VSAT-256 Kbps		
131	Kumaun University, Nainital, Uttaranchal	BB VSAT-256Kbps		
132	Kuvempu University, Dist-Shimoga, Karnataka	BB VSAT-256 Kbps		
133	Lalit Narayan Mithila University, Darbhanga, Bihar	BB VSAT-256 Kbps		
134	Magadh University, Bodhgaya, Bihar	BB VSAT256 Kbps		
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135	Manonmaniam Sundaranar University,	
	Tirunelveli, Tamil Nadu	BB VSAT-256Kbps
136	Mahatma Gandhi Antarrashtriya Hindi V.vidya,	
	Wardha, Maharashtra	BB VSAT-256Kbps
137	Mahatma Gandhi Chitrakoot, Distt Satna, Madhya Pradesh	BB VSAT-256Kbps
138	Mizoram University, Aizawal, Mizoram	BB VSAT-512Kbps
139	Nagaland University, Kohima, Nagaland	BB VSAT-512Kbps
140	Kakatiya University, Warangal	BB VSAT-512Kbps
141	Andhra University, Visakhapatanam	SCPC-1 Mbps
142	Nagarjuna University, Guntur	SCPC-1 Mbps
143	Rajiv Gandhi University, Itanagar, Arunachal Pradesh	SCPC-1 Mbps
144	University of Calcutta, Kolkata, West Bengal	LL-2 Mbps(1:1)
145	Punjab University, Chandigarh	LL-2 Mbps(1:1)
146	Jawaharlal Nehru Technological University, Hyderabad	LL-2 Mbps(1:1)
147	Banaras Hindu University, Varanasi, U.P.	LL-2 Mbps(1:1)
148	University of Pune, Pune, Maharashtra	LL-2 Mbps(1:1)
149	Delhi University (North Campus), Delhi	LL-2 Mbps(1:1)

Appendix X

E-Resources Subscribed Under UGC-Infonet Digital Library Consortium

SI No	Name of the Publisher	No. of Journals Databases	Website address	No. of Universities eligible to	
				access	
	Full Text E-Resources				
1.	American Chemical				
	Society	31	http://www.pubs.acs.org/	100	
2.	American Institute				
	of Physics	18	http://www.aip.org/	100	
3.	American Physical Society	8	http://www.aps.org/	100	
4.	Annual Reviews	31	http://arjournals.		
			annualreviews.org	100	
5.	Blackwell	501	http://www.blackwells-		
			ynergy.com/	100	
6.	Cambridge University				
	Press	194	http://journals.cambridge.org/	100	
7.	Elsevier Science	34	http://www.sciencedirect.com/	50	
8.	Institute of Physics	36	http://www.iop.org/EJ/	100	
9.	Jstor	1046	http://www.jstor.org/	34	
10.	Nature	1	http://www.nature.com/	50	
11.	Portland Press	4	http://www.portlandpress.com	50	
12.	Project Euclid	18	http://projecteuclid.org	50	
13.	Project Muse	297	http://muse.jhu.edu/journals/	100	
14.	Royal Society of				
	Chemistry	236	http://www.rsc.org/	100	
15.	SpringerLink	1005	http://www.springerlink.com/	125	
16.	Taylor & Francis	1150	http://journalsonline.tandf.co.uk	115	
17.	Oxford University Press	198	http://www.oup.co.uk/	115	
18.	Emerald	29	http://www.emeraldinsight.com/	50	

	Bibliographical E-Resources					
19.	Biological Abstract	1	http://web5.silverplatter.com/	90		
20.	Chemical Abstract Services	1	http://www.cas.org/products	9		
	(SciFinder Scholar)		/sfacad/index.html			
21.	MathSciNet	1	http://web5.silverplatter.			
			com/webspirs/start.ws	50		
	Royal Society of Chemistry	6	http://www.rsc.org/	100		
	Encyclopeadia					
22.	Encyclopedia Britannica	National site				
		Licensing	http://search.eb.com/	All		

¹⁸ publications of full-text Journals + 9 Bibliographic Databases + 1 Encyclopedia