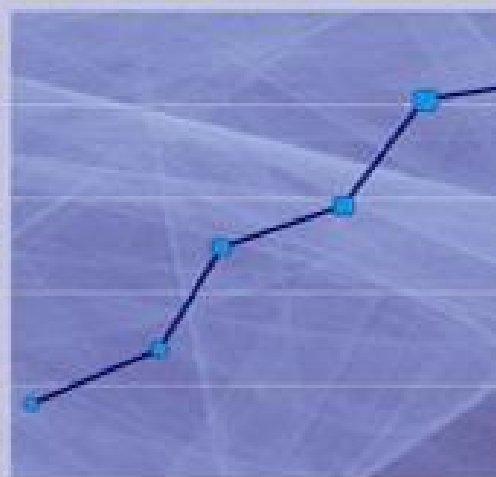# Annual Report
April 1, 2007 to March 31,2008

INFLIBNET Centre
Information and Library Network Centre
An IUC of University Grants Commission

INFLIBNET

Annual Report

(April 1, 2007 – March 31, 2008)

Information and Library Network Centre

Ahmedabad
2008

Contents

Message from Director's Desk

The academic libraries around the globe are confronting the challenge of continuous flux of changes in new information technology that finds its application in libraries. The libraries around the globe have graduated from the first Automation Age that began in 1970s with introduction of integrated library automation packages to the fourth Automation Age that began in early 1990s with emphasis on access to web-based full-text resources rather than on bibliographic databases and services built around web-based resources. Responding to the changing scenario, the activities, functions and services of the INFLIBNET Centre has evolved during past two decades from being a conventional library network with emphasis on development on integrated library software, access to bibliographic databases, union catalogues and resource sharing to being a modern library network with emphasis on providing access to full-text e-resources, content creation and developing digital repositories. The Centre has a responsibility to take along academic libraries in its journey towards transformation of libraries into knowledge centre and information hubs.

After Dr. T.A.V. Murthy relinquished his charge as the Director of the INFLIBNET Centre in June 2006, the Centre was run by Acting Directors for more than a year with highly restricted financial and administrative powers. Several important issues were pending for decisions at various levels and the Centre was beleaguered with several debilitating problems that needed urgent redressal. A number of new initiatives have been taken after my joining the Centre that would have long lasting impact on functioning of the Centre. I am pleased to present a gist of activities during the year under report.

Constructing a building is a rare event that comes only once in a life-time of an institution. The Centre has awarded the job of designing and constructing the institutional building to M/s Vastu Shilpa Consultants, a leading Architect in the city of Ahmedabad. The scientific and technical staff of Centre teamed up with the Architects to evolve conceptual design for the building to be constructed in Infocity, Gandhinagar. After a series of reiterations, the first formal presentation on the conceptual design of the building was made to the members of the Governing Board and Building Committee. It is indeed very exciting to see the INFLIBNET's own building on the papers. We are all very hopeful that we shall very soon witness construction of our own building.

The Centre has been facing acute shortage of manpower for past several years. After persuading the UGC, the Centre has been able to fill-in five vacancies of Scientist at various levels that had fallen vacant in past one year. Permission is being sought from the UGC for filling-in more than 14 positions that had fallen vacant in past few years. Meanwhile, the Centre has appointed 17 computer and library professionals on contractual basis against position that are lying vacant for past several years. Besides, the INFLIBNET's Governing Body and Council have approved appointment of six additional staff members to take care of additional activities under this programme.

The SOUL Software, one of the flagship initiatives of the Centre, having more than 1600

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installations, had run into a lot of criticism because of lack of development and maintenance support. The INFLIBNET's Governing Body and Council has now approved appointment of seven SOUL Coordinators and 18 technical assistants at enhanced rates of remunerations for different geographical regions in the country based on number of SOUL installations. Additional manpower and coordinators would help the Centre to address the problem of maintenance of SOUL software effectively and efficiently. Besides, SOUL Support Unit has also been established at the INFLIBNET Centre with dedicated staff and telephone lines. Moreover, a dedicated team of software developers are working very hard to bring out SOUL 2.0 with all desirable features and functionalities. The Catalogue Module of the new version of SOUL software was released during CALIBER 2008 at University of Allahabad.

The UGC-Infonet Connectivity and Digital Library Consortium executed by the INFLIBNET Centre, two major initiatives executed by the INFLIBNET Centre, are doing well. 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. One of the important resources and services launched during the year under report is J-Gate Custom Content for Consortium (JCCC) which is a virtual library of journal literature created as customized e-journals access gateway and database solution for the UGC-INFONET Digital Library Consortium. It acts as one-point access to 9,000+ journals that are available online and subscribed by the Consortium as well as by 20 university libraries that are designated as "ILL Centres". Resource sharing or inter-library loan is a unique benefit of JCCC. do hope that JCCC will prove to be an effective tool that would encourage inter-library loan amongst participating universities and benefit users to a great extent.

The resources subscribed under the UGC-INFONET Digital Library Consortium would shortly be available on subscription to private and deemed universities under the "Associate Membership Programme" of the Centre. Under the scheme, private and deemed universities and other researcher institutions would be able to enrol themselves as "Associate member" and subscribe to resources of their choice available under the Consortium. The rates of subscription would be same as is applicable to Consortium for its core members. The scheme has been submitted for formal approval of the UGC. The College Model of the UGC-INFONET Digital Library Consortium that was pending for a long time is likely to see the light of the day. The Centre has submitted a major project to the UGC for implementing college model of the Consortium. As on now, the ICT infrastructure and requirement of e-resources in CPE and Autonomous colleges is being assessed by the Centre.

The Internet connectivity provided to 150 universities under the UGC-INFONET Connectivity Programme is being upgraded to 2 Mbps for all universities. 92 universities, including all universities in North Eastern regions have already been upgraded to 2 Mbps.

The web site for the Centre was completely revamped during the period under report. The Web site for the UGC-INFONET Digital Library Consortium was also revamped with detailed information on e-resources being subscribed, member universities, searchable interface for e-journals, tutorials on each resources, downloadable list of journals along with their URLs, FAQ, Contact details of publishers, etc.

The computer and network infrastructure at the Centre was also updated during the year under report. The Centre acquired four additional high-end servers to house its databases, website mailing-lists, mail server, etc. It is now easier for users to access our databases with renewed computer and network infrastructure. Besides, new PCs and laptops have also been purchased for the scientists, staff and laboratories of the Centre.

While the Consortium and activities related to it are taking a central stage in the Centre, it was ensured that our projects of Union Catalogues (Books, Serials and Ph.D. theses) do not take a back seat. The Centre has approached various universities and research institutions to contribute to the updation of Union Database of Books and Ph.D Theses. I am thankful to the library fraternity for responding to our call and sending the bibliographic data for the above mentioned union catalogues in large numbers. The number of records in all the three databases has grown substantially. Moreover, the book database now provides for downloading of selected bibliographic records in MARC21 format that can be ported to MARC21-compliant library software transparently.

The Centre has entered the world of Library 2.0 with launch of its Toolbar, RSS Feed-enabled web site, RSS Feed Aggregator services and list-servs for the members of Digital Library Consortium and SOUL Software. We look forward to a vibrant INFLIBNET with substantial inputs in terms of manpower, resources, physical and computing infrastructure and most importantly collaborative participation of our member universities.

(Jagdish Arora)

1.   Introduction

The Information and Library Network (INFLIBNET) Centre 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 set 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 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 universties under its purview. The first intitiative, namely "UGC-Infonet Connectivity Programme" provides ICT infrastructure for networking of university campuses with state-of-the-art campus-wide networks and Internet bandwidth, the second inititative called the "UGC-Infonet Digital Library Consortium" provides access to selected scholarly electronic journals and databases in different disciplines. INFLIBNET is responsible for execution and monitoring of both the initiatives.

2.   Vision and Mission

- ♦ Leveraging on the latest technology, create a virtual network of people and resources in academic institutions with an aim to provide effective and efficient access to knowledge through perseverance, innovation and collaboration;

- ♦ Provide seamless, reliable and ubiquitous access to scholarly, peer-reviewed electronic resources to the academic community in all educational institutions with a focus on services and tools, processes and practices that support its effective use and increase value of this information;

- ♦ Build and strengthen ICT infrastructure in educational institutions with value-added services;

- ♦ Develop tools, techniques and procedures for secure and convenient access management enabling users to access information in electronic format from anywhere, anytime;

- ♦ Develop resource selection guides and online tutorials for effective delivery and usage of e-resources;

- ♦ Facilitate creation of open access digital repositories in every educational institutions for hosting educational and research contents created by these institutions.

3.   Aims and Objectives

The objectives of the Centre as per the Memorandum of Association (MoA) 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;

b) 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;

   i)   to promote and implement computerization of operations and services in the libraries and information centres of the country, following a uniform standard;

   ii)   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 services;

   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:

   v)   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.

c) 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.

4. Physical Infrastructure

The INFLIBNET Centre is located in 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.

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 during 2006. The Centre has taken possession of the land on 31st May 2007 and fencing of the plot allocated to the Centre has been done. The land is located in the Infocity, Gandhinagar amidst reputed educational institutions such as NID, DAIIT and NIFT. Centre has appointed M/s Vastu Shilpa Consultants as its Architect for designing and constructing institutional building. After detailed disscussion and deleberations on activities, services and corresponding physical requirements with the staff and scientists of the Centre, the Architect has evolved conceptual design of the building which was presented to the Governing Board of the Centre. Besides main building, the campus of the Centre will have

conference hall, recreation ground, residential flats, Director's bunglaw, guest houses, underground parking lot, etc. The Centre has projected an estimated cost of Rs. 21.75 crores (approx.) for construction of institute building. The Governing Body in its 15th meeting has constituted a building committee. The members of the building committee are listed in the Appendix III.

Fig. 1: Director with Sh. Rajeev Kathpalia, Architect on the land alloted to the Centre at INFOCITY along with INFLIBNET Scientists

5.   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:

5.1. Governing Council

Governing Council (GC) is an apex body of the Centre chaired by its President, ex-officio Chairman of the UGC. The Council has seven 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.

5.2. 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 Board 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 GB has six ex-officio members and seven nominated members who are nominated by the Chairman, UGC. The Director, INFLIBNET is the Member-Secretary of the Board. The Governing Board meets at least twice a year. The current members of the Governing Board are listed in Appendix II.

5.3. Finance Committee

The Finance Committee (FC) is a sub-committee of the Governing Board and consists of eight members. It has six ex-officio members and two 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 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 Board seeks its recommendations. The Finance Committee meets at least once a year. The minutes of the 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 IV.

6. Human Resources

The Centre employs administrative, scientific and technical personnels for achieving its defined objectives. The technical personnels are mostly qualified in library, information and computer sciences. A list of technical, administrative and supporting staff of the Centre is given in Appendix V.

7. Scientific and Technical Activities

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

7.1 Database Management

The Centre, since its inception is involved in database management activities and has initiated building of union catalogues of library resources available in Indian university libraries. These databases contain bibliographic records of books, serials and theses contributed by participating universities in all disciplines. The databases are compiled by collecting, collating and merging bibliographic records from 142 participating universities in different formats. These records are converted into one common format and merged into a single union database with each record having information on holding universities. The INFLIBNET databases are available in open access throguh in-house developed search interfaces at http://www.inflibnet.ac.in. The major union databases and their number of records in each database are listed below in table 1:

Name of the Database	No. of Records
Books	79,98,450
Theses	2,20,206
Current Serials	13,881
Serials (Unique)	14,500
Serials (Holdings)	50,164
Subject Experts (University)	15,800
Subject Experts (NISSAT)	24,000
Research Projects	10,000

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7.1.1. Union Catalogue of Books

The Union Catalogue of Books contains bibliographic records of text books, specialized books, reference materials, technical reports, annual reports, standards, patents, manuscripts, etc. available in participating university libraries. The Union Catalogue of Books contains a total no. of 79,98,450 holdings records including 55,88,420 unique records. The database can be searched by name(s), of author(s), subject headings, words in title or series, name of the universities or their combination using "simple search" or "advanced search" interface. List of universities and number of records contributed by them are listed in VI. Fig 2 is a screenshot of search interface of the Union Catalogue of Books. Table 2 and Fig 3 depict growth in number of records in books union catalogue.
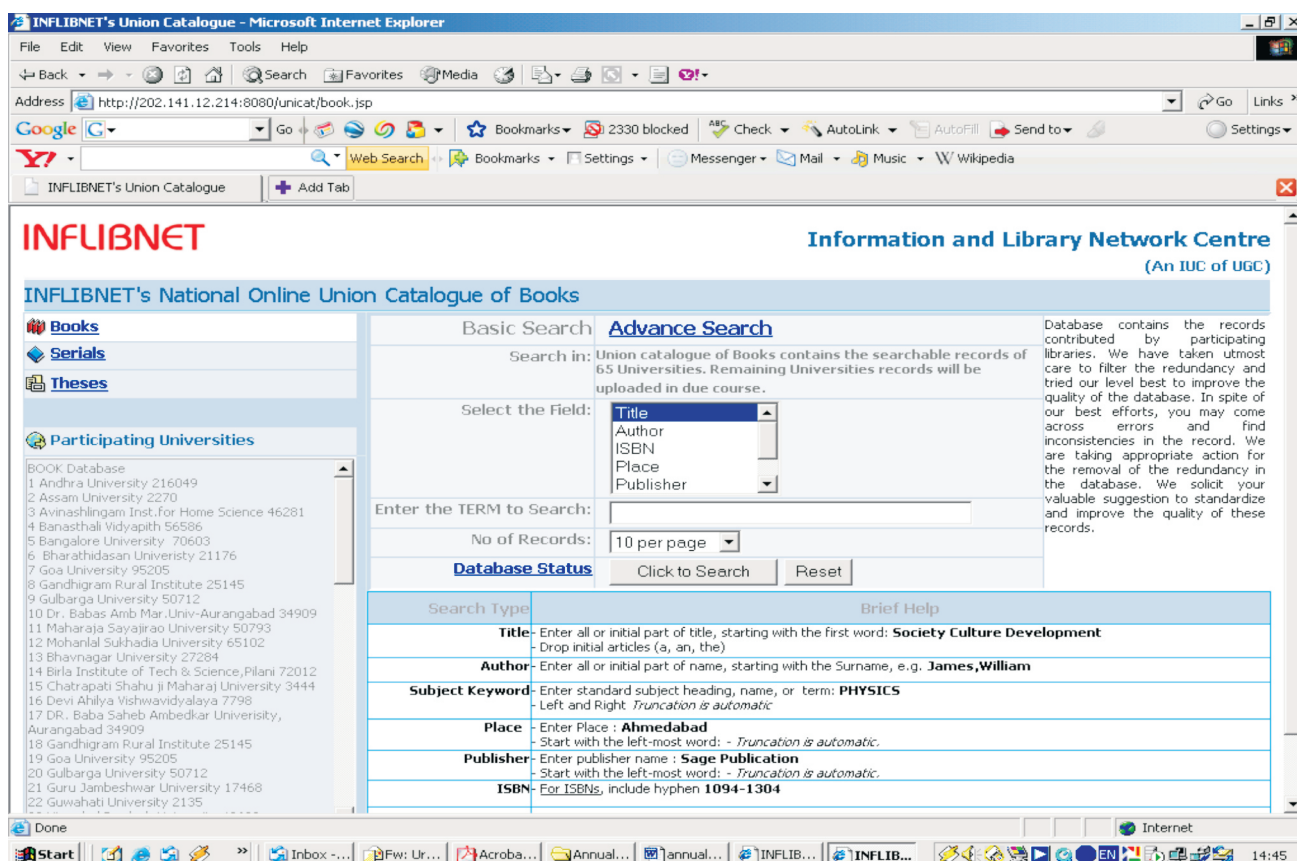
Fig.2: Screenshot of Search Interface of the Union Catalogue of Books

Year	No of Records	% of Increase
1997	2,25,000	
1999	6,50,000	289%
2001	8,00,000	27%
2003	12,00,000	50%
2006	32,45,000	170%
2008	55,88,420	72%

Table2: Growth of Records in Union Catalogue of Books
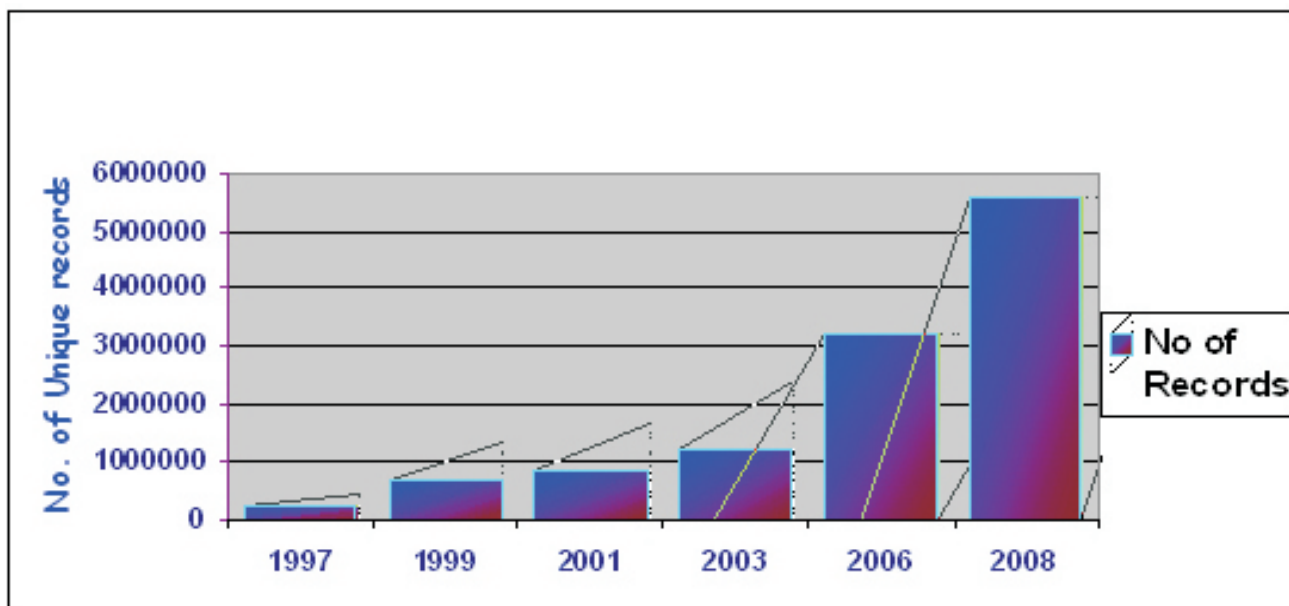
Fig. 3: Growth Chart of the Union Catalogue of Books in two years block

The Union database of books provides for downloading of selected bibliographic records from the database through in-house developed web search interface at http://unicat.inflibnet.ac.in:8080/unicat/ in MARC21 bibliographic format. After searching the records from the database, copy cataloguing of the records in MARC21 format is made possible for libraries through the interface. The bibliographic records can also be downloaded in to ASCII format.

7.1.2. Union Catalogue of Serials

The Centre maintains two separate databases on Serials namely Serials Holdings and Current Serials subscribed by the participating university libraries. The database can be searched by name of journal(s), ISSN, URL, library holdings, and Publisher/Place and their combination using "simple search" and "advanced search" interface.

a) Serials Holdings

The Serials Holdings includes bibliographic records of serials (including journals, periodicals, annuals, serials) available in more than 89 universities / Institute libraries along with its holdings information (includes available and missing volumes of journals) in respective libraries. The holdings database has over 14,500 unique titles with 50,164 holdings information for 89 universities. Minimum bibliographic information alongwith holdings details and university name is provided for each record. List of universities and number of records contributed by them are listed in the Appendix VII. Screen shot of advanced search of serials holdings database is given below in Fig. 4.

b) Current Serials

The Union database of current serials (including journals, periodicals, annuals, serials) holds 13,881 unique records subscribed by more than 200 university / institute libraries. This database provides journal titles with brief bibliographic information alongwith the names of subscribing library.
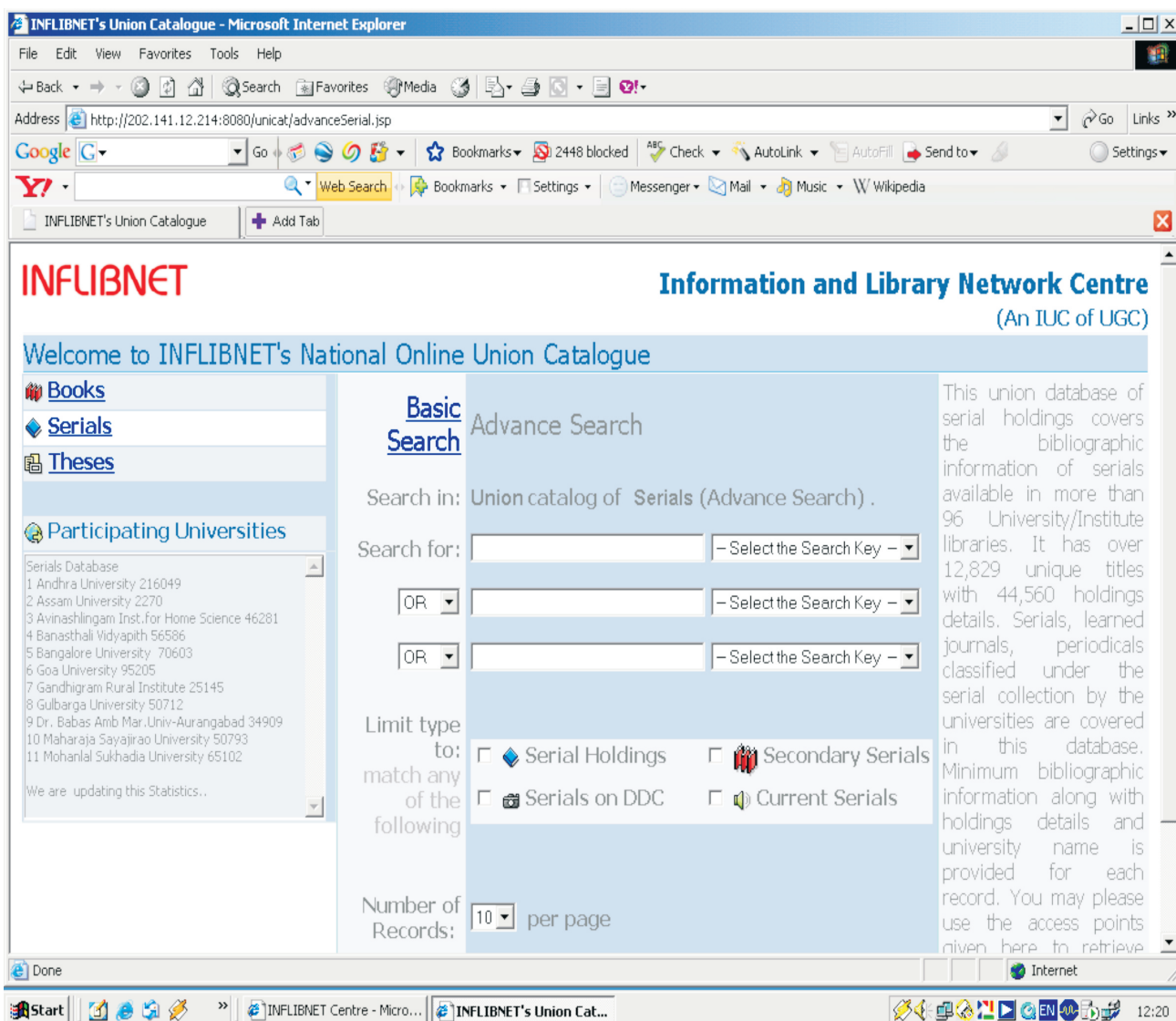
Fig. 4: Advanced Search Interface of Serials Database

7.1.3. Union Catalogue of Theses

The Union Catalogue of Theses holds bibliographic details of doctoral theses submitted to 238 universities / institutions in India. The Union Catalogue of Theses has around 2,20,206 unique records in all disciplines 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 Catalogue of Theses was taken-up in 1995 with 52,000 records from 82 universities. The database has grown to 2,20,206 records in March 2008 from 238 universities over a period of 13 years. The Table 3 and Fig. 5 given below depict growth of theses databases from 1995 to March 2008. Fig. 6 is a screenshot of a record displayed from theses database.

Year	No of Universities/ Institutions	No of Records	% of Increase
1995	82	52,000	
1996	95	65,000	25%
1997	110	72,000	11%
1998	134	90,000	25%
1999	149	1,15,000	28%
2000	160	1,28,000	11%
2001	172	1,35,000	5%
2002	189	1,42,000	5%
2003	198	1,48,000	4%
2004	209	1,52,000	3%
2005	211	1,71,176	13%
2006	213	1,75,206	2%
2007	213	1,75,206	0%
2008	241	2,20,206	26%

Table 3: Growth in No. of Records in Theses Database: 1995 – 2008
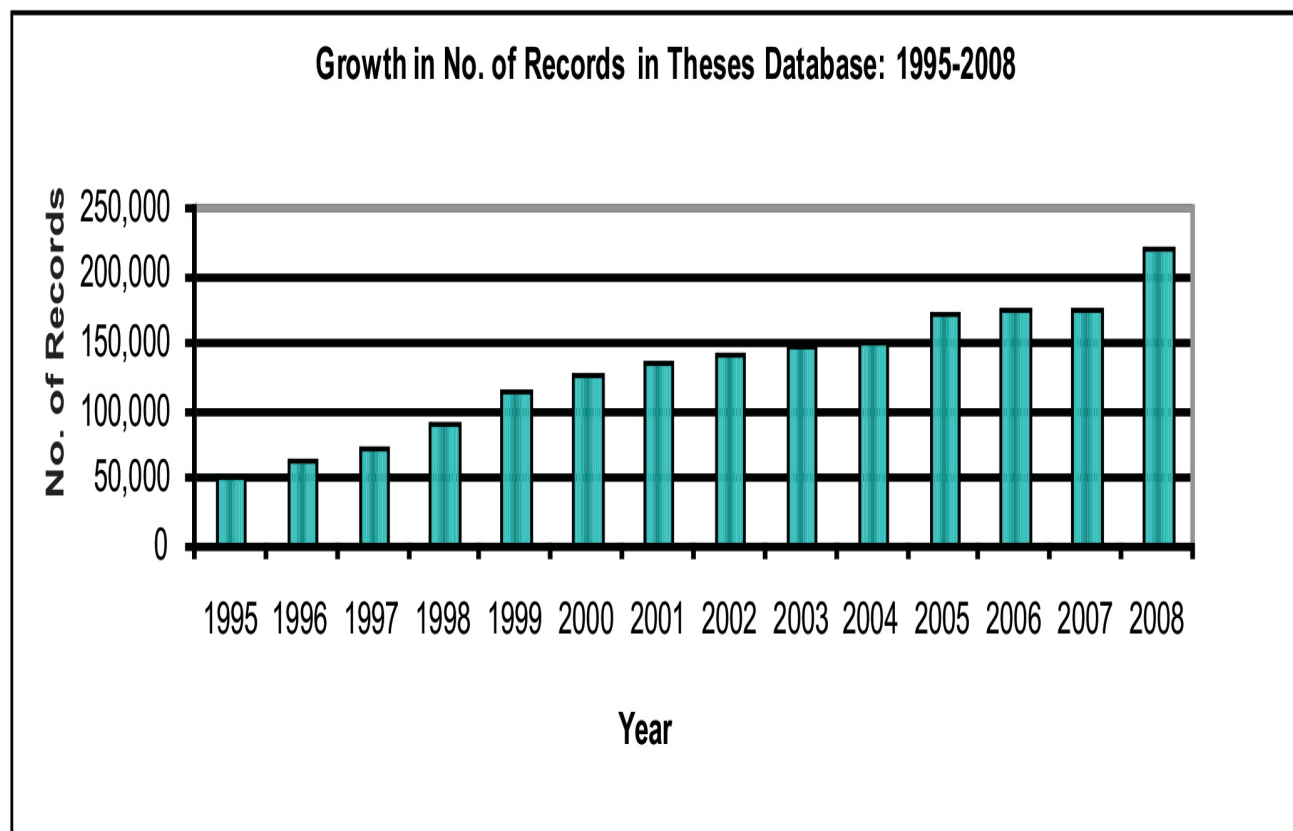
Fig. 5: Growth in No. of Records in Theses Database from 1995 to 2008
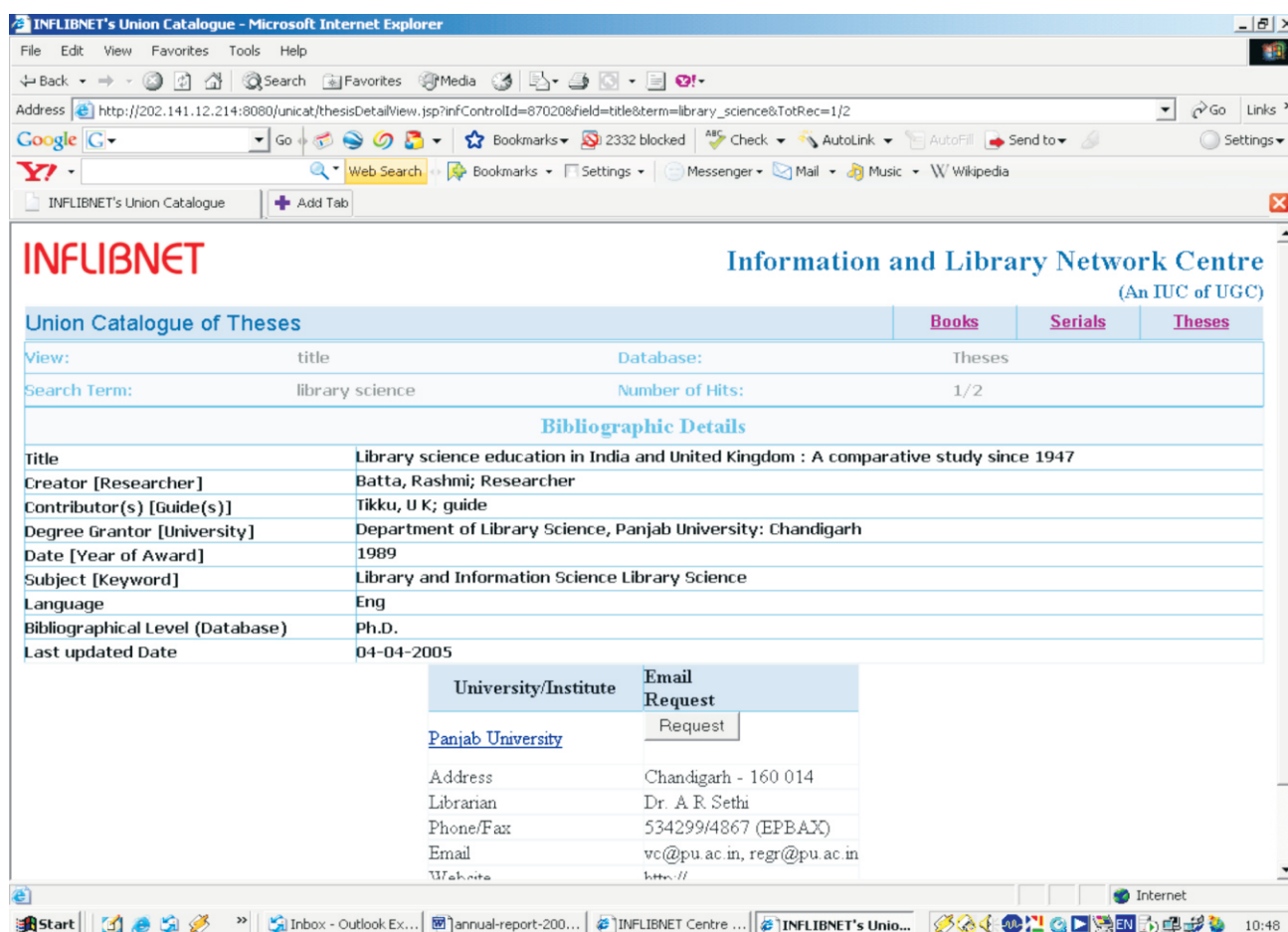
Fig. 6: Display of a Record from the Theses Database

Theses database can be searched by title, researcher, guide, university, department, year of submission, subject keywords, etc. List of the universities and the number of records contributed by them to the theses union catalogue is given in the Appendix VIII.

7.1.4. Subject Experts Database

The Subject Experts Database is a collection of profiles of experts of individuals in India contributing to 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, experience, skills and accomplishments, project handled, publications, etc. The Centre maintains two subject experts databases, namely "NISSAT Experts Database" and "University Experts Database". The "NISSAT Experts Database", accessible at http://nissat.inflibnet.ac.in, contains 24,000 records and 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 15,800 records and can be accessed at http://nissat.inflibnet.ac.in/university/. Fig. 7 is the screenshot of the expert database. The growth of both the databases are based on voluntary contributions from the subject experts of various institutions and universities either online or offline.
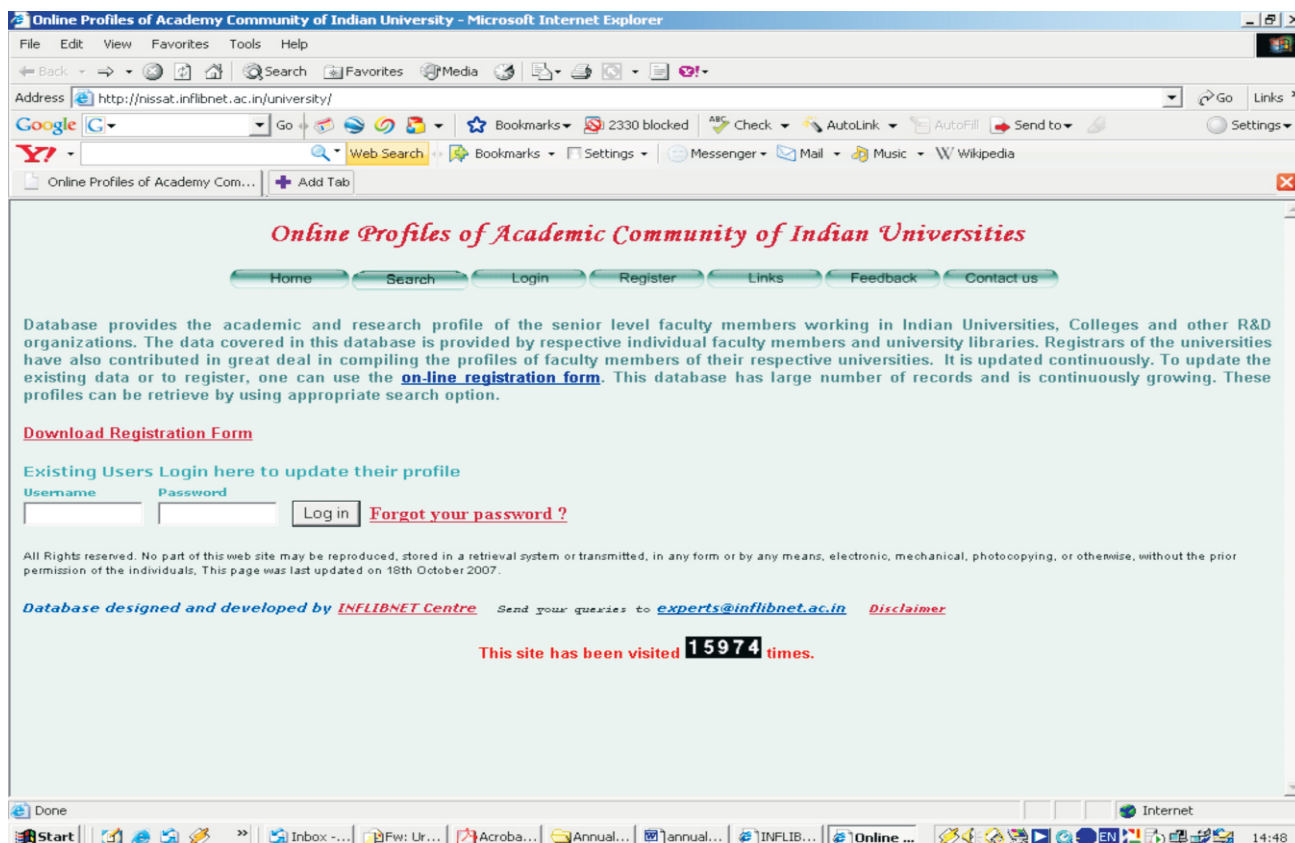
Fig. 7: Screenshot of Expert Database

7. 2.   Software Development

The Centre is involved in development of various software based on its functional requirements and for library automation, 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 pre-requisites in the process of building 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 for reformating 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 works within the area of database management and development including porting of bibliographic records into database servers. The software R&D Group is also responsible for developing user's interface that facilitates search and browse of union databases. The search interfaces available online for various bibliographic databases are developed in-house by the Group.

7.2.1. SOUL Software

The Software R&D Group of the Centre has developed an integrated library management software for automating the Indian academic libraries. The dedicated team of this Group has designed and developed an integrated library management software, i.e. SOUL (Software for Universities Libraries). The first version of the SOUL Software was released in Chennai during CALIBER Convention in February 2000. Software R&D Unit keeps in constant touch with the large userbase of the SOUL Software and develops software patches and utilities to add additional features and facilities to the software based on users demands and requirement. Additional patches and utilities developed for the SOUL software are available through the Centre's website at http://www.inflibnet.ac.in/soul/. The Catalogue Module of the New Version of SOUL Software was released at University of Allahabad, Allahabad on 28th February 2008.

The Catalogue Module of New Version of SOUL features has an advanced features for data entry based on the user generated template. The module facilitates addition, updation, and deletion of records in the authority database and provides its integration with the patron database of the SOUL. The new version of the module is not only powerful and efficient, but also easy to use. The module provides number of default templates for creating bibliographic records for all kinds of library resources such as books, serials, manuscripts, maps, non-book materials, etc. It provides fully-functional, powerful MARC editor for all record formats. The records created using this module are valid MARC21 records that are interoperable and portable to other software and utilities. MARC21 elements like leader, fixed field, subfield etc. are stored in the module and are available to cataloguers for editing and updation. The catalogue module of new version of SOUL provides multilingual facility using Unicode character sets. Gujarati language was thoroughly tested in the new version of Catalogue Module by ADINET, Ahmedabad. The bibliographic details of 150 titles in Gujarati were rendered and all the problems that were identified were taken care of by the developers. The new features that are available in the new version of SOUL software are:

- Client-Server based multi-user application;
- Feature of Unicode based multi-lingual bibliographic records creation using Universal character sets UTF-8;
- Provides user generated data entry worksheet and user generated reports with facilities of sending the reports through e-mail and saving the reports in different formats;

- Handling of authority files as external database;
- Global view and editing of the records;
- Supports MARC 21 bibliographic format for all types of document;
- Multiple record templates for print and non-print materials

The catalogue module contains the following five important sub modules for processing of various types of documents available in library:

- Administration
- Cataloguing Process
- Reports
- Data Export/ Import
- User Services

The catalogue module of the New Version of SOUL software is available free-of-cost and can be downloaded from the website http://www.inflibnet.ac.in/soul/soul.html.

Fig. 8: Prof. A B Samddar, Director, Motilal Nehru National Institute of Technology (MNIT), Allahabad Releasing the Catalogue Module of New Version of SOUL Software

The software has more than 1538 installations in several large and small academic libraries including public libraries in the country. This also includes the installations in Jammu & Kashmir and North Eastern States of the country under special scheme directed by the Prime Minister Office (PMO). The state-wise list of the SOUL installation is given in the Appendix IX. The Centre provides five-days training programme especially designed to impart training on installation and implementation of SOUL software for new users. Figure 9 depicts state-wise distribution of SOUL software as on 31st March 2008.

State-wise SOUL Installations
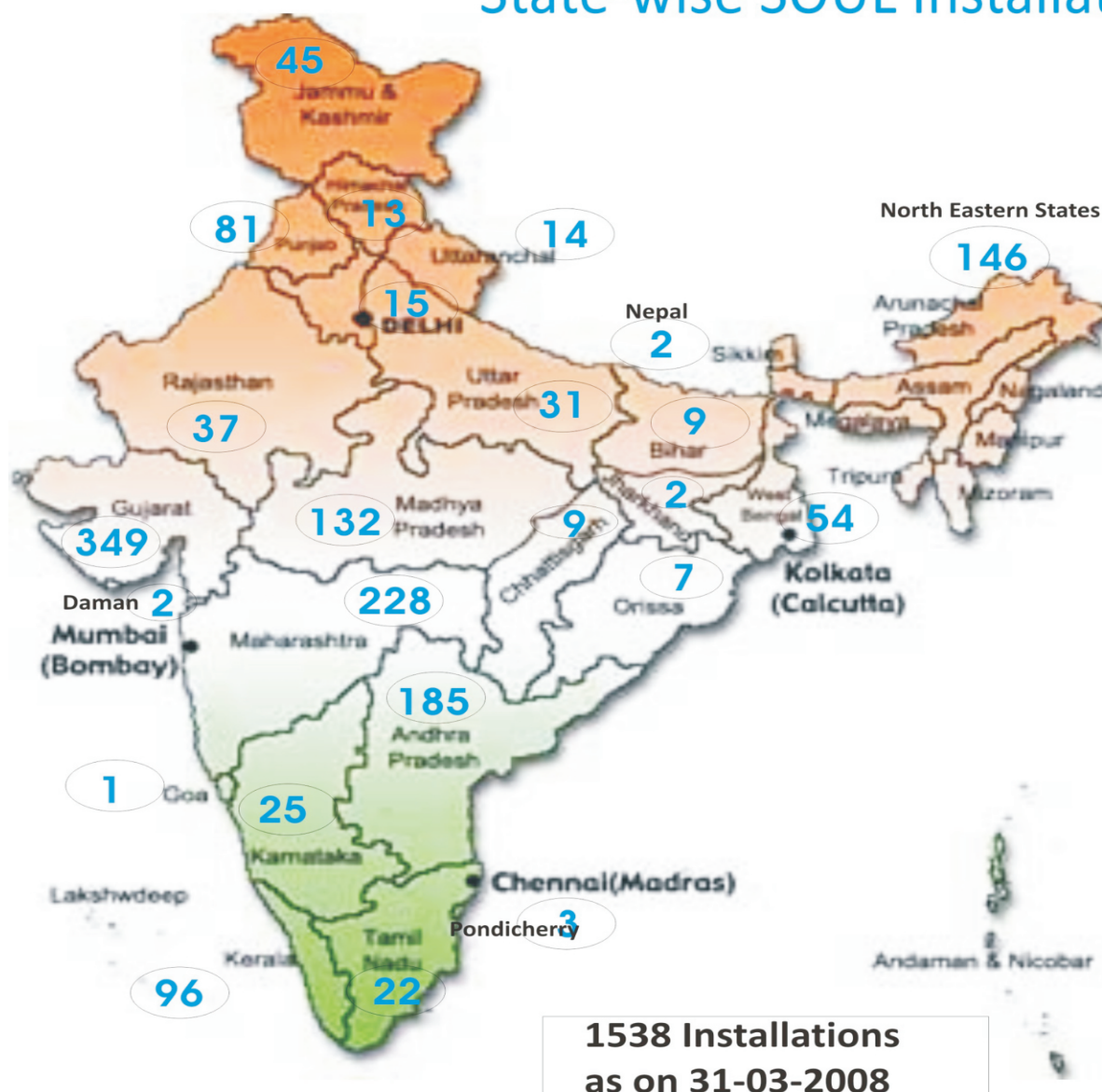
Fig. 9: State-wise Distribution of SOUL Software as on 31st March 2008

7.3. Bibliographic Standards, Formats and Protocols

Bibliographic standards and protocols are backbone of any bibliographic databases and related software. The standards and protocols streamline the implementation of activities, provide utmost quality, consistency and most importantly facilitates interoperability, data transfer and exchange.

Uniform standards and protocols are pre-requisite for data transfer, exchange, interoperability, merging records in union catalogues and most importantly for creating and maintaining its quality. The developing and maintaining union catalogues is one of the primary functions of the Centre. According to the directives from the MHRD and recommendation based on the directive from the Expert Committee of the Centre, fields from MARC21 bibliographic

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software. Accordingly, each participating library has been advised to use MARC21 bibliographic format for creation of bibliographic records in their library automation software. The Centre has developed adequate expertise in MARC21, its usage and implementation. The Catalogue Module of the New Version of SOUL software is fully complaint to MARC21. The software provides interface for importing MARC21 records from external resources like LOC, OCLC and records provided by publishers of electronic books. The export / import interface of the software has been thoroughly tested by the staff of the Centre as well as by the users since the catalogue module of the software is available in public domain. Moreover, the union catalogue of books also facilitates exporting bibliographic records in MARC21 format. These standards are available on the INFLIBNET website at http://www.inflibnet.ac.in /publication/ for downaloading. Some of the guidelines prepared by the Centre such as "Guidelines for Data Capturing: A User Manual" "SOUL Guidelines for Data Capturing: A User's Guide" are also available for download. 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 digital environment. NISO standards apply in both traditional and new technologies to the full range of information related needs, including retrieval, re-purposing, storage, metadata and preservation. 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 (TC) 46 of the International Organization for Standardization (ISO). The TC46 Committee of the ISO serves to the following subcommittees:

- a. SC4 on Technical Interoperability
- b. SC8 on Quality – Statistics and Performance Evaluation
- c. SC9 on Identification and Description
- d. SC11 on Archival / Records Management

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

7.4. UGC-Infonet Internet Connectivity Programme

The UGC-Infonet Internet Connectivity Programme was launched in 2002 by Shri Atal Bihari Bajpai, the then Hon'ble Prime Minister of India for bringing out qualitative changes in the academic infrastructure of higher education in the Country. So far149 universities have been provided Internet bandwidth ranging from 256 Kbps to 2 Mbps using Broadband LL / SCPC /

DAMA / FTDMA / RF Open Network Architecture after the launch of the programme. Eight more universities covered under 12B Act of UGC have recently been identified for inclusion under the scheme. The task of establishing and maintaining the entire network under the program was 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 provides 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 transfer rates while accessing Internet and Intranet resources.
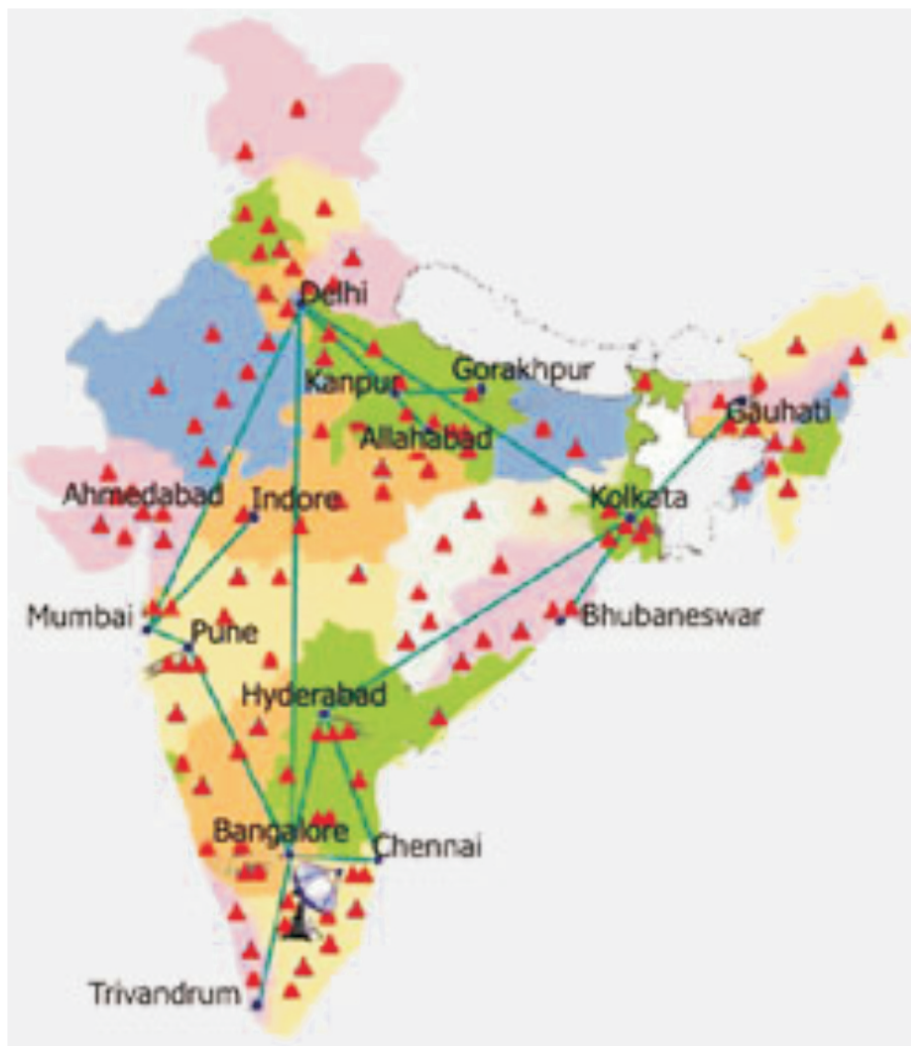
Fig.10: ERNET's Points of Presence (PoP) Centres and Distribution of Universities Across the Country

Each participating university has signed a quadripartite agreement with the 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 monitors and liaisons between the 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.

The 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 Graph 3 given below depicts types of connectivity and bandwidth available to the universities.
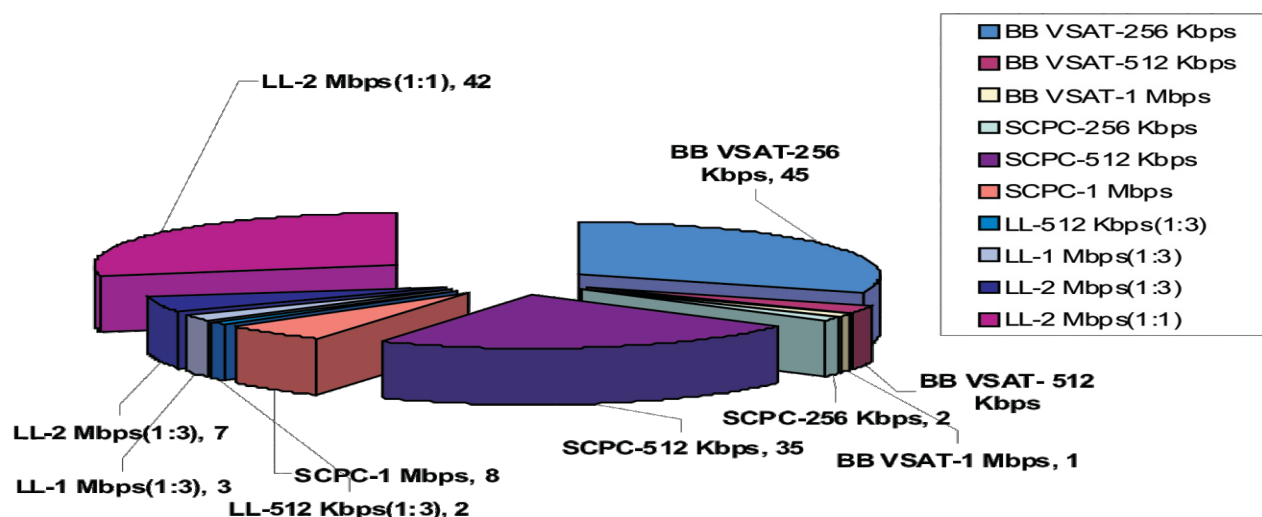
Fig. 11: Bandwidth available to Universities and Technology Deployed for Providing Connectivity

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 and UGC, connectivity for all the 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 X.

7.5.   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 Connectivity Programme. The Consortium proved to be a recipe to university libraries which have been discontinuing subscription of scholarly journals because of "Serials Crisis", that 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 5000+ core and peer-reviewed journals and nine bibliographic databases from 23 commercial publishers scholarly societies, university presses 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 150 Universities out of 171 that come under the purview of UGC, have been provided differential access to subscribed e-resources. E-resources accessible to individual universities can be identified through the INFLIBNET website http://www.inflibnet.ac.in/econ/. These e-resources cover almost all subject disciplines including arts, humanities, social sciences, physical sciences, chemical sciences, life sciences, computer sciences, mathematics, 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) and autonomous colleges. 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.

7.5.1. 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 the 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 promote increased 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.

7.5.2. Current Status

Differential access to more than 5000 scholarly journals and nine bibliographic databases from 23 major publishers and aggregators are offered to more than 150 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 to their journals from Vol.1 onwards. The publishers, aggregators and number of e-journals offered by them alongwith their URLs are given in Appendix XI.

7.5.3. Usage of E-Resources

Most publishers maintain detailed usage statistics complaint to an international standard called "COUNTER" for resources offered by them to the Consortium. Comparative usage statistics

for member institutions is obtained from the publishers and is made accessible to the member universities on the INFLIBNET website through an interface called e-RAMS (Electronic Resource Access Management System). Universities with low usage of e-resources are requested to optimize their usage. The Table No. 4 and Fig. 12 given below depicts increase in usage of various e-resources for all beneficiary universities (Phase 1 to 3) for the years 2004 to 2007.

The table reflects consistent increase in usage from 2004 to 2007 for all e-resources. The increase in usage from 2004-2007 is 51.51%..
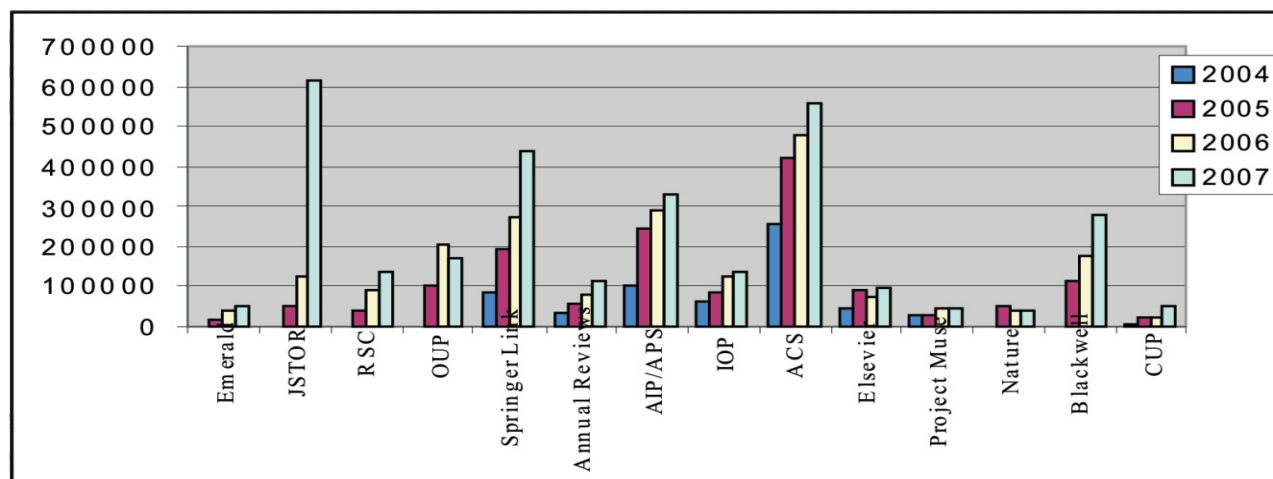
Fig. 12: Publisher-wise Increase in E-resources usage

S N.	Name of Publishers	No. of Downloads 2005	No. of Downloads 2006	No. of Downloads 2007	Increase in % 2005-06	Increase in % 2006-07	Average Increse
1	JSTOR	53924	121745	616560	125.77	406.44	521.69
2	RSC	41786	88174	134121	111.01	52.11	110.49
3	Emerald	18106	38995	48776	115.37	25.08	84.70
4	Blackwell	116473	174081	278690	49.46	60.09	69.64
5	Springer Link	190831	273319	443024	43.23	62.09	66.08
6	IOP	81071	124949	134241	54.12	7.44	32.79
7	CUP	21321	23061	49304	8.16	113.80	65.62
8	Annual Reviews	56504	77034	116800	36.33	51.62	53.36
9	Project Muse	26038	46699	46140	79.35	-1.20	38.60
10	OUP	100316	205213	171973	104.57	-16.20	35.72
11	AIP/APS	243856	292884	329025	20.11	12.34	17.46
12	ACS	422816	478140	560506	13.08	17.23	16.28
13	Elsevier	89585	72964	95770	-18.55	31.26	3.45
14	Nature	48499	42839	42894	-11.67	0.13	-5.78
				Average :	36.33	48.92	51.51

Average increase in usage in three years (2005-2007):   **51.51**

Table 4: Average Increase in Usage of E-resources

7.5.4. 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 as applicable for the UGC-Infonet Digital Library Consortium were analysed for the member universities.

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 by the publishers not only because of combined strength of its members, but also due to their eagerness to enter into 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., subscription price payable by individual institutions in case the resources were to be subscribed by them on their own. The Table 5 and Fig. 13 given below depict that there is a savings of Rs. 113.20 crores in 2004, Rs. 231 crores in 2005, Rs. 278.88 crores in 2006 and Rs. .87 crores in 2007 with overall saving of Rs. .68 crores (approx.) given the fact that the same resources on list price would have costed Rs. 130 crores, Rs. 257 crores, Rs. 307 crores and Rs.338 from 2004 to 2007, respectively, as against Rs. 16.19 crores, Rs. 25.92 crores, Rs. 28.86 crores and Rs. 25.63 crores for the year 2004, 2005, 2006 and 2007.

Sl No.	Year	No. of Publishers	No of Universities	List Price	Consortia Price	Savings
					Rupees in Crore	
1.	2004	16	50	130.11	16.30	113.81
2.	2005	25	100	257.04	25.92	231.12
3.	2006	22	100	307.74	28.86	278.88
4	2007	23	100	338.51	25.63	312.87
			Total	1033.40	96.71	936.68

Table 5: Cost Avoidance: List Price V/s Consortium Price for the Year 2004 to 2007
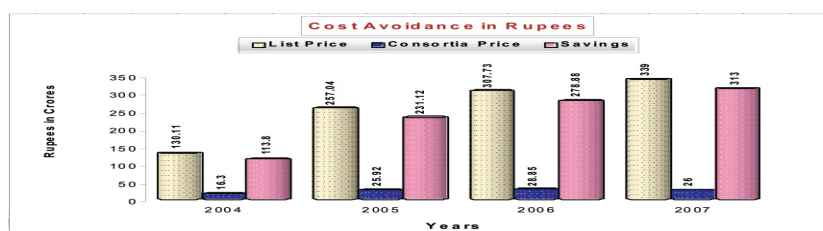
Fig. 13: Cost Avoidance: List price v/s Consortium price

20

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.

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 Fig. 14 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. 186.32 crores as against the total expenditure of Rs. 25.63 crores with Rs. 186.32 crores as the cost of articles downloaded in excess.

Cost Recovery Factor for the year 2007
UGC-Infonet Digital Library Consortium
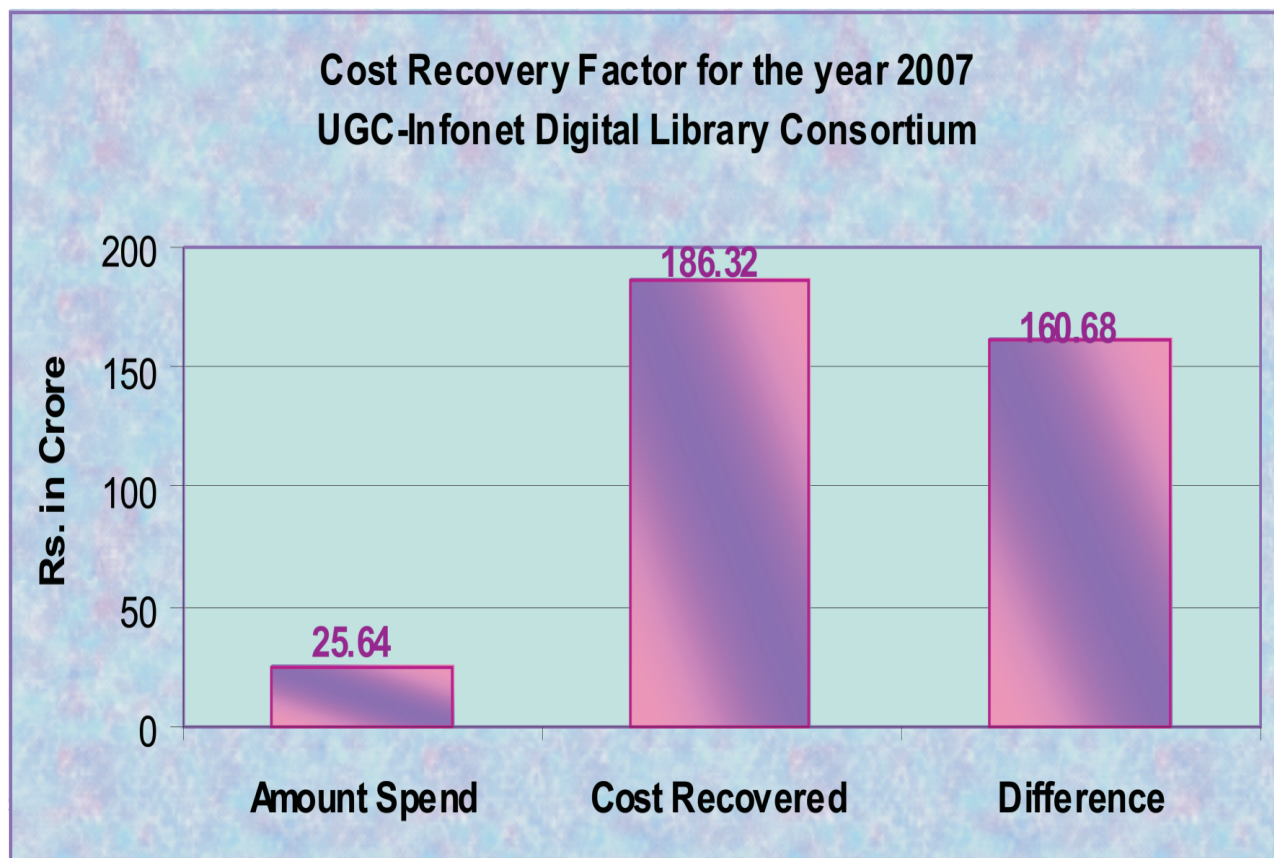
Fig. 14: Cost recovery V/s Cost Incurred for the Year 2007

e) Average Cost of an Article / Bibliographic Record

The average cost of a full-text article varies from Rs. 4.30 (in case of JSTOR) to Rs. 353.91 (in case of Project Muse) as shown in the table 6 given below. The total average cost of a article for the Consortium is Rs. 79.51 as shown below:

E-resource	Average Cost per Article in Rupees (2007)
JSTOR	4.30
Encyclopaedia Britannica	73.11
Oxford University Press	76.97
American Chemical Society	44.07
Taylor and Francis	117.24
Nature	93.08
American Inst. Of Physics / American Physical Society	76.10
Blackwell	56.23
Annual Reviews	88.95
Project Euclid	
Emerald Insight	99.60
Institute of Physics	126.20
Portland Press	133.97
Springer Link	111.92
Elsevier's Cell Press	101.41
Royal Society of Chemistry	138.64
Project Muse	353.91
Cambridge University Press	349.03
Consortium Average	**79.51**

Table 6: E-resources and their Average Cost

f) Cost Savings

The UGC-INFONET Digital Library Consortium, as a policy, has subscribed to e-resources independent of their print versions, which essentially means that member universties are free to drop subscription to journals that are made accessible to them through the Consortial arrangement. Moreover, beneficiary universities have been instructed to delete print subscription of resources for which electronic access is available through the Consortium. The Centre asked all the 100 member universities about the droping of the print subscription. 60 member libraries responses the request where 31 member libraries have filled the specific question about the discontinuing the subscription. Accordingly, the figure reaches to around

3.7 crore on account of drop-in print subscription by the universities. On the account of all the member libraries, 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.

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

The Centre has 15 Internet-enabled PCs dedicated for the use of students and researchers for accessing electronic resources subscribed under the UGC-Infonet Digital Library Consortium. The license agreements signed with the publishers of e-resources provides access to e-resources for "walk-in" users. Students from Gujarat University, its affiliated colleges and students from the nearby universities and colleges walk-in to the Centre for availing this service. During the financial year 2007 –2008, total of 967 users visited the Centre to avail the service. Table 7 given below shows the number of users who visited to the Centre during the financial years April 2007 to March 2008:

Walk-in Users at Informatics Lab (April 2007 – March 2008)

Month	2007-2008
April	66
May	59
June	147
July	64
August	87
September	96
October	77
November	70
December	73
January	108
February	120
March	51
Total	**967**
Avg. Month-wise	**80.58**

Table 7: No. of Users Visited the Walk-in User Facility from April 2007 to March 2008

8.   Conventions

The Centre organizes two major annual conventions every year namely CALIBER and PLANNER. During the year under report, 5th PLANNER and 15th CALIBER were organized at Gauhati University, Guwahati and University of Allahabad, Allahabad during November, 2007 and February-March, 2008 respectively. A brief write-up on the two conventions is given below:

8.1.   PLANNER 2007

The 5th PLANNER (Promotion of Library Automation and Networking in North Eastern Region) was organized by the INFLIBNET Centre, Ahmedabad in collaboration with the Gauhati University at Guwahati (Assam) on "Libraries as a Global Information Hub: Perspective and Challenges" during 7th and 8th December 2007. The PLANNER is an annual event of the Centre with an objective of promoting library automation and networking in the North Eastern States of India. The 1st convention was held in Shillong in 2003 followed by 2nd in Imphal (2004), 3rd in Silchar (2005) and 4th in Aizawl (2006). 274 delegates participated in PLANNER 2007 besides INFLIBNET officials, guests, students, members of the organizing committees and its subcommittees. Dr. A S Chandel from Department of Library & Information Science, NEHU, Shilong acted as   Convention Director and Shri M N Bora, Former Librarian, Tezpur University acted as Rapporteur General of the Convention.

Fig. 15: Dignitaries on the Dais (Prof. Narendra Lahkar, Organizing Secretary, Dr. R K Chadha, Joint Secretary, Lok Sabha, Prof. Amarjyoti Chaudhury,Vice Chancellor, Gauhati University, Prof. Mihir Kanti Choudhury, Vice Chancellor, Tezpur University, Dr. Jagdish Arora, Director, INFLIBNET Centre and Sh. H G Hosamani, Scientist B, Joint Convener during the Inaugural Session of 5th PLANNER 2007

Inaugural Session

The convention commenced with the singing of anthem of the Gauhati University by the students of the Department of Library & Information Science which was followed by the felicitation of the Guests. The Chief Guest of the convention, Prof. Mihir Kanti Choudhury, Vice Chancellor, Tezpur University inaugurated the programme by lighting the lamp. Prof. Chaudhury called upon the library professionals to be more proactive towards the academic needs of the community and highlighted the changing trends in academic enviornment and the role to be played by librarians in this context. Prof. Narendra Lahkar, Organizing Secretary of the Convention, welcomed the delegates, invited dignitaries, students and media. Prof. Lahkar conveyed his gratitude towards LIS professionals for their enthusiasm and participation in the convention in a large number. He thanked to the INFLIBNET Centre for assigning the responsibility of organizing the convention at Gauhati University. Dr. Jagdish Arora, Director, INFLIBNET Centre, as Guest of Honour, discussed various activities of the Centre and

presented statistics on usage of e-resources by researchers and faculty in universities in phased 1 and its impact of their research productivity. Dr. Arora expressed his gratitude to the LIS community for their support. Dr. R K Chadha, Joint Secretary, Lok Sabha Library briefly discussed theme of the convention. The Chair of the Convention, Prof. Amarjyoti Choudhury, Vice Chancellor, Gauhati University highlighted the role of libraries and the librarians in the society in general and academic field in particular. Sh. H G Hosamani, Joint Convener of the PLANNER 2007 extended vote of thanks to the delegates, invitees and guests of the convention including media.

Fig. 16: Dr. Jagdish Arora, Director INFLIBNET Centre lighting the lamp during Inaugural Session of PLANNER 2007

Dr. R K Chadha delivered the keynote address on the theme of the convention. He emphasized on the changing role of librarians in view of ICT based products and services that are being introduced in modern libraries. He emphasized that the librarians should concentrate on the interest of the users as their expectations are increasing from the library in ICT enviornment. Dr. Chadha elaborated on traditional services in print-based environment that has now been transformed to web-based library services and urged the librarians to adopt to these new services. He narrated several web-based services, hitherto, non-existent in print-based environment. He called upon librarians to develop library websites, subject portals and pathfinders for the benefit of library users. He argued that the librarians, as early inhibitors of web, should develop an edge over other communities in adopting new technologies. Dr. Chadha also elaborated on the concept of digital divide and talked about open access as a method to fill-in this divide. He urged the librarians to create their simple library home pages including basic information about the library, policies, virtual library tours, etc to attract the users. Dr. Chadha further advises to go step by step to develop their information services like adding library calendar, interactive user education, FAQs, feedbacks, library web sites, linkage to information sources, book marks, subject gateways and library portals. He advised the librarians to be familiar with the Intellectual Property Rights (IPR).

Theme A: Information Management

The theme on Information Management was divided in three technical sessions, these sessions were chaired by Prof. A Buragohain, Prof. A K Baradal and Prof. Pravakar Rath respectively. Rapporteurs for the three sessions were Dr. R K Barman, Dr. S N Singh, Sh. Niraj Barua and Sh. S Kannan, respectively. In all, there were twelve papers presented on this theme.

Theme B: Borderless Libraries

The theme on Borderless libraries was divided in three technical sessions that were chaired by Dr. V D Shrivastava, Prof. N N Sharma and Dr. R K Chadha respectively. Rapporteurs for the three sessions were Dr. Mukesh Saikia, Sh. M Maltesh and Sh. Mukut Sharma, respectively. In all, 19 papers were presented on the theme.

Fig. 17: Delegates of the PLANNER 2007 during Valedictory Session

The Centre presented mementos to the invitees of the PLANNER 2007 as a mark of gratitude for their help and co-operation for successfully conducting the event at Guwahati. Prof. A S Chandel, Convention Director expressed his satisfaction on the quality of the papers presented during the convention. Prof. Chandel hoped that the convention will guide the professionals for taking up the challenges and opportunities in building modern libraries. Mr. MN Borah, the Rapporteur General presented detailed report on the convention. Prof. Narendra Lahkar discussed different aspects of organizing the event and expressed his gratitude for the cooperation he received from all corners of the country including from the INFLIBNET Centre. Mr. SC Roy, speaking as Guest of Honour, during valedictory, identified the responsibilities that the librarians are required to shoulder in order to keep abreast with changing scenario. Sri Roy also suggested librarians to be sincere and hard working so as to facilitate better use of library resources. During the valedictory session, the Assamese version of SOUL Manual in CD was released, which was translated by Dr. Dilip Kalita and Prof. Narendra Lahkar on the request made from the Centre.

Dr. Jagdish Arora congratulated Dr. Lahkar and his team for organizing the convention successfully. Dr. Arora called upon the library professionals to avail the opportunities extended by different bodies including the INFLIBNET Centre in order to develop the libraries in the

region. Dr. Sanjay Kumar Singh, Assistant Organizing Secretary of the Convention proposed a vote of thanks to delegates, members of organizing team, representatives from the INFLIBNET Centre and authorities of the University.

8.2. International CALIBER 2008

CALIBER is an International Convention organized every year by the Centre. CALIBER is organized at different parts of the country in collaboration with Universities. The 15th CALIBER in the series and the 6th International CALIBER was held at the University of Allahabad, Allahabad during 28th, 29th February and 1st March 2008 on the theme **"From Automation To Transformation".**

Inaugural session commenced with singing of "Saraswati Vandana" and "Kulgeet" of the Allahabad University by students of Music Department of the University. Dr. A. P. Gakhar, University Librarian and Organizing Secretary of the 6th International CALIBER 2008 welcomed the dignitaries, delegates, representatives of the publishers and members of the Academic Council and Executive Council, to the inaugural session of the convention and to the Allahabad University. He also welcomed the delegates to the holy city of Prayag. Dr. Bhushan Lal, Convention Director, International CALIBER 2008 gave a broader outline of the convention and narrated the themes and sub-themes of the convention, i.e. From Automation to Transformation.

Dr. Jagdish Arora, Director, INFLIBNET Centre presented activities, services and functions of the INFLIBNET Centre and their evolution with changing scenario. He presented interesting statistics about usage and economics of electronics journals and databases being provided to the universities under the UGC-Infonet Digital Library Consortium. He also re-iterated that the research output of university, in terms of number of articles published by them have grown up by 42.42 % in past four years i.e. Form 2004 to 2007, the period during which e-resources are being provided to the universities through UGC-Infonet Digital Library Consortium.

Fig. 18: Dignitaries on the Dais during Inauguration of International CALIBER 2008

Prof. Harshe, while inaugurating the convention, discussed about the new technology that are available to libraries these days. Prof. Harshe discussed the plans of the university to digitize the legacy documents in Central Library of the University of Allahabad. While appreciating the availability of e-journals through the UGC-Infonet Digital Library Consortium, he cautioned that the problem of plagiarism has increased with easy access to information in digital format. He opined that the technology should be used effectively to check and deter the problems of plagiarism.

Fig. 19: Delegates of the International CALIBER 2008

Prof. Samaddar, Director MNIT, Allahabad, delivered the keynotes address on the theme of the convention, i.e. "From Automation to Transformation" Prof. Samaddar emphasized that it is highly excited time for the librarians who are required to learn tools and techniques of information technology and their applications in library and information centres. He elaborated on terms like automated library, electronic library, digital library, library without walls, hybrid libraries etc. He invited the librarians to evolve their services that can be delivered directly on the desktop of the users. Shri Rajesh Chandrakar proposed a vote of thanks to the dignitaries on dias as well as to the attending delegates.

The following three tutorials were delivered soon after the inaugural session:

Tutorial -1:   Digital Libraries- Sh. Yatrik Patel, Scientist-B, INFLIBNET Centre
                                  Chairman: Dr H S Chopra, Librarian, GNDU, Amritsar
                                  Venue: North Hall

Tutorial- 2:   Open Sources Content Management Softwares - Dr. Aditya Tripathi, Lecturer, BHU, Varanasi
                                  Chairman: Sh. Manoj Kumar K. INFLIBNET, Ahmedabad
                                  Venue: Periodical Section, 1st floor, Central Library

Tutorial-3:   E-Resources Management-Overview of UGC-Infonet Digital Library Consortium – Dr. Jagdish Arora, Director, INFLIBNET Centre
                                  Chairman: Prof H N Prasad, DLIS, BHU, Varanasi
                                       Venue: Senate Hall

There were total seven technical sessions on six different themes during three days of convention. There was a theme paper presentation by prominent expert on each theme of the convention. The following seven technical sessions were conducted between 28th February and 1st March 2008:

Technical Session	Theme of the Session	Chairperson	Co-Chairperson	Rapporteurs
Session 1	Impact of ICT in LIS: Major Shifts & Practices	Prof. C P Vashishta		Sh. Mahendra Jadhav
Session 2	Impact of ICT in LIS: Major Shifts & Practices	Dr. Shailendra Kumar	Sh. Prem Chand	Dr. D K Singh Sh. Gourhari Jana
Session 3	Digital Libraries: Federated Search & Metadata Harvesting	Prof. E Rama Reddy	Dr. V D Srivastava	Dr. Theressa William
Session 4	Standards & Protocols in LIS	Dr. M Koganurmath	Prof. Prabhakar Rath	Dr. R K Mishra
Session 5	Content Aggregation & Content Representations	Prof. H S Chopra	Dr. U N Singh	Sh. Rakesh Kumar & Sh. Umesha Naik
Session 6	Evolving Technologies: RSS Feed, Blogs, Web2.0, Lib2.0	Dr. Ravindran Asari	Mr. Manoj Kumar K	Sh. Shashank Sonwane & Sh. S F Kattimani
Session 7	Use of E-Resources & UGC-Infonet Digital Library Consortium	Dr. P V Konnur	Dr. J L Upadhyay	Dr. S K Singh & Dr. Manoj Kumar Sinha

At the end of each technical session, there were commercial presentations by publishers and IT companies. All the technical sessions were monitored by the convention Director and Rapporteur General. The Technical sessions were chaired by chairpersons, who were assisted by the Co-Chairs and the Rapporteurs. There were around 400 delegates attended the convention including 14 delegates from foreign countries. Total of 41 papers were presented during the convention.

Prof. Rajan Hershe, Vice Chancellor of the University delivered valedictory address on concluding day on 1st March 2008. Rapporteur General, Dr. U C Sharma presented a brief report and the recommendations on the Convention made by the chairpersons of the various technical sessions. Dr. Jagdish Arora thanked the Organizing Secretary for hosting the CALIBER 2008 and for making the event successful. Mr. Chandrakar, Convener of the Convention and the Organizing Secretary, Dr. A P Gakhar presented the vote of thanks. The recommendations of the convention are as follows:

1. Best practices may be complex and difficult for many libraries to implement due to several constraints, it is the pursuit of superior performance that can motivate and lead libraries to best practices, it is suggested that LICs may take first leap forward, although at a moderate level;

2. Librarians should be sensitive enough towards issues involving computer and data

security. As such they should adopt best practices in digital preservation and apply them for preservation of valuable data;

3. Public information must be freely and easily accessible to all citizens of the Country;

4. Libraries must have collection development policies for providing access to all forms of information and materials to meet the diverse need of users;

5. The library and information professionals should familiarize themselves with the emerging technology for survival in this electronic age. Libraries will have a prominent role to play in the era of "Paperless Society";

6. Metadata is a new name for the traditional cataloguing adopted to suit web-based environment. It was suggested that librarians should adopt new standards and protocols for indexing of e-resources;

7. Libraries should take initiative in Web 2.0 and Web 3.0 applications to facilitate personalized services to their users;

8. Usage of open source software for library computerization and open access to electronic resources should be promoted to the maximum extent;

9. A strategy with defined selection criteria for digitization is critical and should be adopted taking into consideration both preservation and access issues. The focus should be on traditional preservation such as of material, condition of material, use of material, and characteristics of material ensuring a high level of success of digitization project;

10. Librarians should ensure that LIS related standards such as XML, OAI, NCIP, SIP2, MARC21, Z39.50 etc. are implemented in the software they purchase or they develop themshelves for the library activities;

11. In connection with UGC-Infonet Digital Library Consortium, university libraries must conduct the user awareness program in collaboration with INFLIBNET to train and assist the academic community with an aim to promote better utilization of e-resources;

12. Librarians and professional organizations should value the information requirements of users and provide best services to them. It would be an added advantage for the library as well as for the users to be part of a national network of libraries - UGC-Infonet, where library is a nodal point between the users and e-resources of the network;

13. Libraries should be equiped with adequate infrastructure to support life-long learning efforts of their users;

14. Libraries should be well aware of the IPR issues in changing scenario especially in the open access environment. Libraries should impart knowledge about IPR issues to the user community; and

15. Digitization of theses/dissertations at the university level should be encouraged to avoid duplication of research efforts.

Fig. 20: Dignitaries on the Dais during Concluding Session of the International CALIBER 2008

9. Central Facilities

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

9.1. Library

The INFLIBNET Centre has a specialized small library consisting of documents on computer, communication, information and library science. The library is fully computerized using in-house developed SOUL Software. The collection of the library is available online through the web OPAC of the software at the website http://libserver.inflibnet.ac.in/opac/opac.asp.

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 also maintains databases of i) participants who attended various training programmes at the INFLIBNET Centre; ii) Institutions having SOUL software installations; and iii) universities and its contact details with e-mail and URL addresses. The library website at http://libserver.inflibnet.ac.in provides access for these databases.

9.1.1. 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
- Reprographic Service

9.1.2. 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 students for their research activities. These CD-ROM databases had been discontinued since 2003 after the availability of consortia-based subscription of e-resources for member universities through 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 has also been subscribing to the following bibliographic databases that were being used for authenticating bibliographic records of 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)   CD MARC: Names [1996]

xi)   CDMARC: Holdings [1996]

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

The IR @ INFLIBNET was set-up to host full-text of research publications of technical staff as well as other publications of the Centre using D-Space, an open source digital library software developed by the Massachusetts Institute of Technology (MIT), USA. The D-Space 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 to researchers in LIS for depositing, reusing and sharing 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 published article in PDF (if allowed by the publisher). The papers published in CALIBER and PLANNER proceedings have also been uploaded in to the repository in PDF format. The course materials of various training programmes and workshops, lecture notes, presentations, and newspaper clippings are also available in the INFLIBNET repository at http://dspace.inflibnet.ac.in.

9.1.4. Institutional Member

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

♦ International Federation of Library Associations and Institutions (IFLA) - http://www.ifla.org

♦ American Library Association (ALA) - http://www.ala.org

♦ National Information Standards Organization (NISO) – http://www.niso.org

♦ Indian Library Association (ILA) – http://www.ila-india.org

♦ Indian Association of Special Libraries and Information Centres (IASLIC) – http://www.iaslic.org

♦ Computer Society of India (CSI) – http://www.csi-india.org

♦ ADINET (Ahmedabad Library Network) – http://www.alibnet.org

♦ British Library, Ahmedabad – http://library.britishcouncil.org.in

9.1.5. 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 consortium. Under the agreement, the selected publishers are requested to submit a copy of all the issues of the journals published in subscribed year(s). 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 the year under report, issues of 100 journals each were received from the Taylor and Francis,

Blackwell, Oxford University Press, Cambridge University Press, Institute of Physics and Royal Society of Chemistry. Information about these journals are available at the library OPAC website http://libserver.inflibnet.ac.in/ejournal/opac.asp.

9.2. 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 2008, the software had 1538 installations. Some of the State Governments including Maharashtra, Madhya Pradesh, Haryana and Andhra Pradesh have purchased software in bulk for their college libraries. The installation, maintenance and imparting training to the users is a Harculean task that was found difficult to manage with the meagre manpower available to the Centre. The Centre has, therefore, established a SOUL Support Cell and deployed a no. of SOUL Coordinators for managing activities of training, installations and maintenance of SOUL Software.

9.2.1. SOUL Support Cell

A SOUL Support Cell has been set-up with a dedicated telephone line at the Centre. The Cell provides proactive help to the users on telephone or by e-mails. Users can also bring their live data to get instant solution of their problem.

9.2.2. SOUL Coordinators

Keeping in view the need of the region-wise support, the Centre has appointed SOUL Coordinators in different regions. At the moment, two Coordinators are deployed by the Centre, 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.

ii) Shri K Ravindran Asari, Retd. Librarian, Mahatma Gandhi University, Kottayam, Kerala. He is looking after the states of Kerala and Tamil Nadu.

The number of SOUL Coordinators and emoluments paid to the SOUL Coordinators and Technical Assistants has been increased. The process to deploy 5 more coordinators in different regions have been initiated.

9.3. Computer Network & Infrastructure

Infrastructural facilities created at the Centre over the years to meet its objectives are listed below:

9.3.1. Personal Computers, Laptops and Servers

Main objective of the Centre is to provide proactive help to the universities in library automation and to mediate resource sharing amongst them using ICT infrastructure. Thus, the activity of

the Centre is fully geared around ICT infrastructure where networking and computer infrastructures are integral parts of it. The Centre has 171 web-enabled PCs and Laptops. All PCs are connected with the campus-wide local area network. Web-based services including union databases of the Centre are hosted on high-end various six servers. The Centre also has 21 printers (including laser, deskjet and dot-matrix) and 3 scanners for various activities of the Centre. Campus LAN is secured with the Cyberroam 50i firewall including gateway, antispam and loadbalancing facilities.

9.3.2. Campus-LAN

The Centre provides most of its services through Internet 24x7 hrs on 365 days. 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 upgraded network infrastructure that connects all laboratories and offices of the Centre with 10/100 Mbps structured cabling, Rack, I/Os, Jack panels etc. The local area network is extended to all the buildings of the Centre using combination of switches and hubs. Walk-in facility is equipped with Wi-Fi for visiting users with laptops. It also provides software support for visually challenged persons. The classroom being used for imparting training is equipped with Interactive White Board.

9.3.3. Internet Facility

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 a 128 Kbps VSAT was installed at the INFLIBNET Centre as its nodal agency in 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 Kbps. In addition, a dedicated 2Mbps 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.

9.3.4. Software

The Centre has license copies of various software purchased for its activities:

i) Operating Systems

- Windows 2000 Adv. Server Academic Version
- Windows 2000 Desktop O.S.
- Microsoft Windows XP Professional
- Microsoft Windows Vista Bussiness Edition
- Red Hat Linux 7.3 /8.0/9

ii) RDBMS

- Oracle Workgroup 8.0
- SQL Server 6.5/7.0/2000

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

Various miscelaneous software such as EZYBAR Bar Code Label Printing Software, Stackey-Batutil 4.0 Software, MS-Office Ver. 4.2 and 2000 Premier, ISM Office upgrade ver 3.0.4, Pagemaker 6.5 Ver. AE Software, Adobe Acrobat 4.0 AE Software, Microsoft Exchange 2000, Jaws for Windows.

Software added during year 2007-2008

- Microsoft Visual Studio Professional
- Visual Studio MSDN Licence
- Adobe Photoshop CS3
- Windows Server 2000/2003 Enterprise Edition
- Red Hat Enterprise Linux Release 3

10.   Awards, Honours and Distinctions

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

Dr. K. Prakash

- Awarded Ph.D. degree on 30[th]May 2007 from the Karnataka University, Dharwad for his thesis entitled "An Investigation of the Effective Use of Integrated Library Software in Indian University Libraries" guided by Prof. S L Sangam, Department of Library & Information Science, Karnataka University, Dharwad.

Sh. Prem Chand

- Commonwealth Professional Fellowship by the Association of Commonwealth University and British Council, UK for three months from September to December 2007 at Hendon Campus of Middlesex University, London.

- SATKAL Young Librarian for the Year 2007 by the SATKAL Trust, Chandigarh, January 2008 at New Delhi.

Dr. Jagdish Arora

- Member, National Steering Committee, INDEST-AICTE Consortium, New Delhi.

- Member, E-Journal Consortium Negotiation Committee, National Agriculture Project, ICAR, New Delhi.

- Member, National Task Force of NODLINET (National Open and Distance Learning Library and Information Network), IGNOU, New Delhi.

- Member, Subcommittee on Preservation Metadata, Working Group on National Digital Preservation Programme (NDPP), Ministry of Communications and Information Technology, New Delhi.

- Member, Editorial Advisor, Interlending & Document Supply, Emerald (UK)

- Member, Editorial Board, Digital Libraries: An International Journal, TERI, New Delhi.

- Member, Scientific Advisory Committee, Environment Information System (ENVIS) (2006 – 2009).

- Invited to deliver a talk in the 2nd Presidential IFLA Meet on "Free Access and Digital Divide - Challenge for knowledge and Society in Digital Age", Berlin, 18-20th February, 2008.

- Member, High Level Committee, on the Upgradation of Libraries constituted by Ministry of Culture, Govt. of India, October 2007.

- Keynote presentation at the Golden Jubilee of Bibliography held at National Library, Kolkata on 23rd November 2008.

11.   Publications

11.1. Conference Proceedings

i) **Information and Knowledge Management in Networked World:** Proceedings of the PLANNER 2007, Gauhati University, Guwahati, 9th to 10th November 2007. (edited by Jagdish Arora … [et. al.]). Ahmedabad: INFLIBNET Centre, 2007. 645 p.

ii) **From Automation to Transformation:** Proceedings of the International CALIBER 2008, University of Allahabad, Allahabad 28th, 29th February and 1st March 2008. (edited by Jagdish Arora … [et. al.]). Ahmedabad: INFLIBNET Centre, 2006. 725 p.

11.2. Articles Published in Journals and Conference Proceedings

i) **Prakash, K** and **Prem Chand (2008**) content management: tools and applications. *In:*of the ICSSR Sponsored Seminar on and Strategic Issues for Libraries in Global Information Society, Department of Library & Information Science, Panjab University, Chandigarh, th to 19th March 2008.pp. 126-131.

ii) **Chauhan, Suresh K** and **Prem Chand (2008**) of e-resources in Panjab University, Chandigarh with special reference to UGC-Infonet Digital Library Consortium. *In:*of the ICSSR-Sponsored Seminar on and Strategic Issues for Libraries in Global Information Society, Department of Library & Information Science, Panjab University, Chandigarh, 1th to 19th March 2008. . 196-202.

iii) **Chandrakar, Rajesh** and **Arora, Jagdish (2007)** RFID technology. INFLIBNET Newsletter, 14 (2-3). pp. 4-8.

iv) **Arora, Jagdish (2008)** Access management in digital libraries, Part I: Authentication and authorization. INFLIBNET Newsletter, 14(4). pp. 9-14.

v) **Arora, Jagdish (2008)** Access management in digital libraries, Part II: Access control and secured digital communication. INFLIBNET Newsletter, 15(1). pp. 16-20.

vi) **Chauhan, Suresh** and **Prem Chand (2007)** UGC-INFONET Digital Library Consortium: A revelation with future perspectives. *In:*Proceedings of the UGC Sponsored National Seminar on Managing College Libraries in the Digital Environment: Opportunities and Challenges, Dev Samaj College for Women, Chandigarh, 3rdto 4thAugust 2007. pp. 194-199.

vii) **Vaghela, Divyakant R, Rayka, Dinesh, Patel, Yatrik** and **Chandrakar, Rajesh (2008)** Unicode-based multilingual catalogue module: a new feature of SOUL. *In:* Proceedings of the International CALIBER 2008, University of Allahabad, Allahabad, 28th, 29th February and 1st March 2008. (edited by Jagdish Arora … [et.al.]). Ahmedabad: INFLIBNET Centre. pp. 420-429.

11.3. Papers Presented

i) **Manoj Kumar, K, Murjani, Geeta G** and **Patel, Bansari M (2007)** Development of RFID interface for LMS: Solutions and techniques. *In:* Proceedings of CSITEd 2007 - Computer Science and IT Education Conference, University of Technology, Mauritius, 16th –18th November 2007. pp. 345-359.

ii) **Chandrakar, Rajesh (2008)** Presented a theme paper on Standards and Protocols in LIS entitled "Understanding Standards and Protocols : LIS Perspectives" on International CALIBER 2008 organized by INFLIBNET Centre, Ahmedaabd held at University of Allahabad, Allahabad on 28th, 29th February and 1st March 2008.

iii) **Trivedi, Kruti** and **Arora, Jagdish (2008)** Presented a paper entitled Economics of UGC-Infonet Digital Library Consortium during the International CALIBER 2008 organized by INFLIBNET Centre held a University of Allahabad, Allahabad on 28th, 29th February and 1st March 2008.

iv) **Prem Chand (2008)** paper presented on UGC-Infonet Digital Library Consortium during the International CALIBER 2008 held at University of Allahabad, Allahabad on the theme From Automation to Transformation on 1stMarch 2008.

12. Training Programmes / Workshops Organized by the Centre

12.1. User Awareness Programmes on E-resources

The INFLIBNET Centre conducts extensive user awareness programmes to generate awareness amongst students researchers and faculty about e-resources and their availability

through UGC-Infonet Digital Library Consortium. 61 user awareness programmes were organized at different places during 2005-08 for 61universities. User awareness programmes are being conducted in universities regularly on requirements basis. The major objective of this programme is to generate awareness and encourage researchers for making optimum use of e-resources provided to the universities under the Consortium arrangement. The programme was organized at various universities and coordinated by the identified coordinator from each universities in association with scientific staffs of the Centre. The following four user awareness programmes were organized during the year under report:

12.1.1. User Awareness Programme on E-Resources, GNDU, Amritsar, October 29, 2007

A One-Day User Awareness Programme on E-Resources was organised at Bhai Gurudas Library, Guru Nanak Dev University, Amritsar on 29th October 2007. The Programme was inaugurated by Prof. Jai Rup Singh, Vice Chancellor of the University. More than 200 delegates (includes faculty, research scholars and the library staff) attended the awareness programme. Sh. Suresh Chauhan, Project Scientist represented the INFLIBNET Centre and made presentation on UGC-Infonet Digital Library Consortium. Representatives of Springer, Elsevier, American Chemical Society, Institute of Physics, Royal Society of Chemistry, Annual Reviews, Cambridge University Press and AIP/APS made presentations on the e-resources being made accessible to the Guru Nanak Dev University under the consortium arrangement.

12.1.2. Workshop on Sharing of E-Resources, Digital Data and their Security Technology Aspects, Vidyasagar University, Midnapore, West Bengal, January 24-25, 2008

A two-days workshop on "Sharing of E-Resources, Digital Data and their Security Technology Aspects" was organized at the Vidyasagar University, Midnapore in collaboration with the INFLIBNET Centre on 24th to 25th January 2008. The workshop was inaugurated by Prof. Damodar Acharya, Director, IIT Kharagpur. The Vice Chancellor of the Vidyasagar University, Prof. Swapan Kumar Pramanick delivered presidential address. Sh. Amiya Sarkar, Deputy Librarian of the University welcomed the gathering. More than 100 faculty members and research scholars attended the Workshop. Technical sessions were handled by Prof. Ajit Pal, Department of Computer Science, Dr. B Sutradhar, Librarian, IIT Kharagpur, Sh. Amardeep Chawla and Sh. Ranjan Kumar from ERNET, Delhi and Sh. Manoj Kumar from the INFLIBNET Centre. The following topics were covered during the workshop:

    (i)   E-Resources: development and sharing at university level and UGC-INFONET Digital Library Consortium; and

    (ii)   UGC-INFONET Programme: present status and future prospects.

M/s. Informatics, Globe Publications, GIST, Springer India, Elsevier India and Emerald Group Publishing made presentations on the e-resources available to the Vidyasagar university under the consortium.

12.1.3. E-Resource User Awareness Training Programme, M S University of Baroda, Vadodara, Gujarat, January 29, 2008

A one-day "Awareness Programme on E-Resources" was organized at the M S University Baroda on 29th January 2008. Dr. Jagdish Arora, Director, INFLIBNET Centre inaugurated the programme. The programme was attended by more than 60 participants from various

departments of the university. Dr. Arora made an ellaborate presentation on the UGC-Infonet Digital Library Consortium, its present status and future endeavours. Besides, presentations were also made from various publishers on their e-resources available to the MS University Baroda for access under Consortium. The publishers who made presentations included Globe, Blackwell, Elsevier, Springer, Taylor and Francis, Cambridge University Press, Oxford University Press, Emerald, Annual Reviews, ACS, Project Muse, Project Euclid, SIAM and Informatics.

12.1.4. Seminar on Strengthening Library Resources through Innovative Technology, R K Parikh Arts and Science College, Petlad, March 29, 2008

A Seminar on "Strengthening Library Resources through Innovative Technology" was organised at R K Parikh Arts and Science College, Petlad in collaboration with the INFLIBNET Centre on 29th March 2008. The Principal of the College Sh. V S Joshi welcomed the participants and the dignitaries. The seminar was inaugurated by Sh. H M Shah, Managing Trustree of the College. Sh. Khodabhai Patel acted as a Chief Guest of the Seminar. More than 60 delegates (includes librarians of various colleges, head of the departments, head of the library & information science schools and directors of the different library and information centres) attended the Seminar. Sh. Suman Parekh, Librarian of the College proposed vote of thanks. The following topics were covered during the seminar:

(i)   UGC-Infonet Digital Library Consortium: Present Status and Future, by Dr. Jagdish Arora, Director, INFLIBNET Centre

(ii) Information Services in Technology Era, by Dr. C N Rawal, Head and Librarian, S P University, Vallabh Vidyanagar, Anand

(iii) The Role of Librarian in ICT Environment, by Sh. Shailesh Yagnik, Librarian, MICA, Ahmedabad

12.2. National Workshop and Seminars

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

12.3. IRTPLA Training Programme

The IRTPLA (INFLIBNET Regional Training Programme for Library Automation and Networking) programme was started with an aim to impart training to a large number of librarians through regional-level training with emphasis on 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. 55 IRTPLA Training Programmes have been organized so far. During the period under report, the following two training programmes were conducted at Hyderabad and Bhopal:

12.3.1. IRTPLA Training Programme, 17th to 21st December, 2007,Hyderabad

The IRTPLA was conducted at Bankatlal Badruka College of Technology, Hyderabad, A.P during 17th to 21st December 2007. 29 participants from different colleges attended the programme. Sh. H G Hosamani was resource person for the programme from the Centre. The following presentations were made during the programme:

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

12.3.2. IRTPLA Training Programme, 7th to 11th January, 2008,

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 7th to 11th January 2008. 75 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 Yatrik Patel of the Centre acted as Resource Persons. Sh. Vijaikumar Shrimali and Sh. Kamlesh Patel, Project Assistants provided assistant during hands-on training sessions. Dr. B. K. Khanuja, Librarian, PG College acted as a Coordinator of the programme.

12.4. 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 was devoted to theoretical lectures and demonstrations, the afternoon sessions were 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 was designed to cover the following topics:

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

Generally, two participants from each institutions are permitted to join this training programme, one each from computer and library science background. The INFLIBNET provides TA / DA to one of the participants from each institute. So far, 71 such training programmes have been organized at the Centre. During the financial year 2007-08, the following 11 training programmes (Table 11) were organized to impart training to 243 participants:

Training Programme No.	Period of Programme	No of Participants
58	23rd to 27th April 2007	19
59	28th May to 1st June 2007	20
60	25th to 29th June 2007	28
61	20th to 24th August 2007	19
62	17th to 21st Septemeber 2007	25
63	15th to 19th October 2007	19
64	26th to 30th November 2007	18
65	28th January to 1st February 2008	22
66	10th to 14th March 2008	28
67	17th to 21st March 2008	17
68	24th to 28th March 2008	28
Total		**243**

Table 11: Schedule of SOUL Training Programme Organized at the INFLIBNET Centre

13.   Distinguished Visitors

The following distinguished visitors came to the INFLIBNET Centre during the period under report:

i)   Students of AES Training College & Centre, Panchmarhi, Madhya Pradesh a premier Army Institution engaged in training the soldier educators of the Indian Army has visited the centre on part of their academic activity.

ii)   Prof. S K Khanna, GB-Chairman, INFLIBNET Centre

iii)   Architect of INFLIBNET's Institutional Building, Mr. Rajeev Kathpalia, Mr. Soenke Hoof

iv)   Prof. Naresh Dadhich, Director, IUCAA, Pune.

v)   Selection Committee Members, Prof. J P Gupta, Vice Chancellor, Jaypee Institute of Information Technology University (Noida), Dr. Harish Chandra, Librarian, IIT Madras, and Prof. Karmeshu, Computer System Sciences, Jawaharlal Nehru University, New Delhi visited

14.   Academic Interaction with Universities and other Research Institutions

14 students of B.E. and MCA from engineering colleges in Gujarat and neighbouring states had undergone practical training at the INFLIBNET Centre during the year under report. Although the Centre receives a large number of applications from engineering colleges in Gujarat and neighbouring states for the training at the INFLIBNET, the Centre selects a limited student trainees. Facilities are also available to the library science students of IGNOU as well as Gujarat University, Ahmedabad to use e-resources available 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 2007. 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 INFLIBNET family celebrated the 61th Independence Day of the Nation at the Centre on 15th August 2007. Sh. Manoj Kumar, Scientist-D(CS), the then Acting Director of the Centre hoisted the national flag and addressed the gathering consisting of staff and their family members.

15.3. Republic Day Celebration

The Centre celebrated 60th Republic Day of the Nation on 26th January 2008 in its campus. Dr. Jagdish Arora, Director of the Centre hoisted the national flag and addressed the gathering. Staff members of the Centre with their families attended the function. A number of social events were organised during the event. All staff members and their children participated in the events.

16. Right to Information (RTI) Act

In order to promote transparency and accountability in the working of public authority and to empower the citizens to secure access to information under 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

The Audited Annual Accounts of INFLIBNET Centre for the financial year 2007-2008 is given below:

D. H. RAMANI & COMPANY CHARTERED ACCOUNTANTS
201, "SAUMYA", Complex, 5-Kalpana Society,
B/h. Navrangpura Post Office, Ahmedabad – 380 009

D. H. Ramani, B. Com., FCA, DISA (ICA)   Phone (O) (079) 66614579

Audit Report of Information and Library Network Centre
Registration No.GUJ/5538/Ahmedabad

We have examined the Balance Sheet as at 31st March, 2008 and Income and Expenditure Account for the year ended on the said date of **INFLIBNET Centre, (AN AUTONOMOUS INTER-UNIVERSITY CENTRE OF UGC), NAVRANGPURA, AHMEDABAD - 380 009.**

A) Accounts of the Centre are maintained regularly and in accordance with provisions of the Bombay Public Trust, Act 1950 and Rules made there under.

B) Receipts and disbursement are properly and correctly shown in the accounts.

C) The cash balance and vouchers in custody of the Admn. Officer-F on the date of the audit were in agreement with the accounts.

D) All books, deeds, accounts, vouchers or other documents or records required by us were produced before us.

E) An inventory of the movable certified by the Director of the Centre has been maintained.

F) Shri D. P. Negi, Admn. Officer-F, appeared before us and furnished the necessary information required by us.

G) No property of funds of the Centre were applied for any object or purpose other than the object or purpose of the Centre.

H) There is no amount outstanding for more than one year.

I) Tenders were invited for repairs or construction involving expenditure exceeding Rs.5,000/-.

J) No money of the Public trust has been invested contrary to the provisions of Section 35.

K) There is no alienation of immovable property contrary to provisions of Section 36.

For, D. H. Ramani & Company
Chartered Accountants

Place : Ahmedabad   Sd/-
Date : 21.08.2008   **(D. H. Ramani)**

Proprietor
Mem. No. 48049

201, "SAUMYA" Complex,
5-Kalpana Society,
B/h. Navrangpura Post Office,
Ahmedabad – 380 009.
Telephone No.:66614579

Information and Library Network Centre
(An Autonomous Inter-University Centre of UGC)
Ahmedabad – 380 009

BALANCE SHEET AS AT 31ˢᵗ MARCH, 2008

(Amount – Rs.)

	Schedule No.	F.Y. 2007-2008 (Current Year)	F.Y. 2006-2007 (Previous Year)
CORPUS/CAPITAL FUND AND LIABILITIES			
TRUST'S FUNDS OR CORPUS INCOME & EXPNDITURE A/C.	01	14,48,43,170.39	12,14,05,151.39
OTHER EARMARKED FUNDS	02	34,75,27,456.00	10,91,94,252.00
CURRENT LIABILITIES	03	5,03,879.00	5,82,229.00
TOTAL :		49,28,74,505.39	23,11,81,632.39
ASSETS			
FIXED ASSETS	04	4,89,52,728.00	4,64,71,779.00
INVESTMENT – FROM EARMARKED/ENDOWMENT FUNDS	05	43,62,84,129.70	17,21,36,807.70
CURRENT ASSETS	06	71,63,969.69	1,22,49,367.69
SUNDRY DEPOSITS	07	4,73,678.00	3,23,678.00
TOTAL :		49,28,74,505.39	23,11,81,632.39

The above Balance Sheet to the best of our belief contains a true account of the Funds and Liabilities and Properties & Assets of the Institution.

As per our report of even date attached.
For D. H. Ramani & Co.
Chartered Accountants

Sd/-
[D. H. Ramani]
Proprietor

Sd/-
[D. P. Negi]
Admn. Officer-F

Sd/-
[Dr. Jagdish Arora]
Director

Place : Ahmedabad
Date : 21.08.2008

Place : Ahmedabad
Date : 21.08.2008

D. H. RAMANI & COMPANY
CHARTERED ACCOUNTANTS

201, "SAUMYA" Complex,
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Telephone No.:66614579

Information and Library Network Centre
(An Autonomous Inter-University Centre of UGC)
Ahmedabad – 380 009

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31ˢᵗ MARCH, 2008

(Amount – Rs.)

	Schedule No.	F.Y. 2007-2008 (Current Year)	F.Y. 2006-2007 (Previous Year)
INCOME			
GRANTS-IN-AIDS RECEIVED FROM U.G.C., NEW DELHI	8	1,95,00,000.00	2,00,00,000.00
ADDITIONAL GRANTS EARNED AS INTEREST ON INVESTMENTS		1,27,70,641.00	87,07,576.00
MISCELLANEOUS INCOME	9	80,65,273.00	45,55,196.00
TOTAL (A) :		4,03,35,914.00	3,32,62,772.00
EXPENDITURE			
EXPENDITURE IN RESPECT OF PROPERTIES	10	75,326.00	32,055.00
EXPENDITURE ON THE OBJECT OF THE TRUST	11	1,68,02,569.00	1,54,57,466.00
AUDIT FEES		20,000.00	15,000.00
		1,68,97,895.00	1,55,04,521.00
TOTAL (B) :		2,34,38,019.00	1,77,58,251.00
BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE (A-B)			
TOTAL :		4,03,35,914.00	3,32,62,772.00

As per our report of even date attached.
For D. H. Ramani & Co.
Chartered Accountants

Sd/-
[D. H. Ramani]
Proprietor

Place : Ahmedabad
Date : 21.08.2008

Sd/-
[D. P. Negi]
Admn. Officer-F

Sd/-
[Dr. Jagdish Arora]
Director

Place : Ahmedabad
Date : 21.08.2008

D. H. RAMANI & COMPANY
CHARTERED ACCOUNTANTS

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Telephone No.:66614579

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2008

(Amount – Rs.)

	F.Y. 2007-2008 (Current Year)		F.Y. 2006-2007 (Previous Year)	
SCHEDULE – 1 CORPUS/CAPITAL FUND :				
Balance as at beginning of the year		12,14,05,151.39		12,17,98,153.39
Add : Balance of net income transferred from the Income & Expenditure Account.	2,34,38,019.00		1,77,58,251.00	
Less : Payment for E-Subscription out of interest accrued on fixed deposits.	0.00		(-) 3,93,002.00	
		2,34,38,019.00		1,81,51,253.00
BALANCE AS AT YEAR – END		14,48,43,170.39		12,14,05,151.39

FUNDS-WISE BREAK UP

	Networking Grants-in-Aids	UGC-INFONET Grants-in-Aids	E-Subscription Grants-in-Aids	North Eastern Region	TOTALS F.Y.2007-2008 (Current Year)	TOTALS F.Y.2006-2007 (Previous Year)
SCHEDULE – 2 EARMARKED FUNDS :						
Opening balance of the funds	50,00,000.00	8,83,45,375.00	53,48,877.00	3,05,00,000.00	10,91,94,252.00	23,16,47,200.00
Add : Grant received during the year	Nil	18,08,64,000.00	62,10,00,000.00	Nil	78,16,64,000.00	20,97,01,253.00
Less : Grant Utilized during the year	Nil	13,12,00,838.00	40,87,48,454.00	33,81,504.00	54,33,30,796.00	33,21,54,201.00
BALANCE AS AT YEAR – END	50,00,000.00	9,78,08,537.00	21,76,00,423.00	2,71,18,496.00	34,75,27,456.00	10,91,94,252.00

Note : E-Subscription Grants-in-Aid received during the year includes Rs.1,81,51,253/- being the amount of accrued interest on Fixed Deposit and spent during the year for payment towards renewal of E-Journals Subscription.

Sd/-
[D. H. Ramani]
Proprietor

D. H. RAMANI & COMPANY
CHARTERED ACCOUNTANTS

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Telephone No.::66614579

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2008

(Amount – Rs.)

SCHEDULE –4 FIXED ASSETS (AT COST)

	F.Y. 2007-2008 (Current Year)			F.Y. 2006-2007 (Previous Year)		
	Opening Balance	Addition / Deductions During the year	Closing Balance	Opening Balance	Addition / Deductions During the year	Closing Balance
1. Office Equipment	18,79,843.00	2,96,340.00	21,76,183.00	17,62,313.00	(+) 1,17,530.00	18,79,843.00
2. Computer	2,91,58,615.00	17,57,540.00	3,09,16,155.00	2,90,80,900.00	(+) 77,715.00	2,91,58,615.00
1. Computer Software	27,42,379.00	97,910.00	28,40,289.00	26,70,143.00	(+) 72,236.00	27,42,379.00
2. Databases	28,85,851.00	Nil	28,85,851.00	28,85,851.00	Nil	28,85,851.00
3. Furniture & Fixtures	27,76,088.00	2,51,909.00	30,27,997.00	27,60,938.00	(+) 15,150.00	27,76,088.00
4. Canteen Dead Stock	1,600.00	Nil	1600.00	1,600.00	Nil	1,600.00
5. Books and Journals	10,85,129.00	(+) 29,678.00 (-) 2,448.00	11,12,359.00	10,45,959.00	(+) 40,217.00 (-) 1,047.00	10,85,129.00
6. Electrical Fitting & Fixture	42,205.00	6,280.00	48,485.00	42,205.00	Nil	42,205.00
7. Scientific Equipment	41,32,780.00	43,740.00	41,76,520.00	38,33,785.00	(+) 2,98,995.00	41,32,780.00
8. Hostel Dead Stock	1,66,708.00	Nil	1,66,708.00	1,66,708.00	Nil	1,66,708.00
9. VSAT	10,00,000.00	Nil	10,00,000.00	10,00,000.00	Nil	10,00,000.00
10. 64 KBPS Radiolink	6,00,581.00	Nil	6,00,581.00	6,00,581.00	Nil	6,00,581.00
BALANCE AS AT YEAR – END	4,64,71,779.00	24,80,949.00	4,89,52,728.00	4,58,50,983.00	(+)6,20,796.00	4,64,71,779.00

Sd/-
[D. H. Ramani]
Proprietor

D. H. RAMANI & COMPANY
CHARTERED ACCOUNTANTS

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B/h. Navrangpura Post Office,
Ahmedabad –380 009.
Telephone No.:66614579

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2008

(Amount – Rs.)

Sanction Order Ref. No. & Date	F.Y. 2007-2008 (Current Year)			F.Y. 2006-2007 (Previous Year)		
	Non-Plan Grants	Plan Grants	Total Grants	Non-Plan	Plan Grants	Total Grants
SCHEDULE - 8 GRANTS IN AIDS RECEIVED FROM U.G.C. (On actual basis)						
1. F.4-5/2007(IUC) dated 27.04.2007	50,00,000.00	0.00	50,00,000.00	0.00	0.00	0.00
2. F.4-5/2007(IUC) dated 14.11.2007	85,00,000.00	0.00	85,00,000.00	0.00	0.00	0.00
3. F.4-5/2007(IUC) dated 18.03.2008	45,00,000.00	0.00	45,00,000.00	0.00	0.00	0.00
4. F.6-5/2007(IUC) dated 13.06.2007	0.00	15,00,000.00	15,00,000.00	0.00	0.00	0.00
5. F.4-5/2002(IUC) dated 03.07.2006	0.00	0.00	0.00	50,00,000.00	0.00	50,00,000.00
1. F.4-5/2002(IUC) dated 13.10.2006	0.00	0.00	0.00	50,00,000.00	0.00	50,00,000.00
2. F.4-5/2002(IUC) dated 22.02.2007	0.00	0.00	0.00	1,00,00,000.00	0.00	1,00,00,000.00
BALANCE AS AT YEAR – END	1,80,00,000.00	15,00,000.00	1,95,00,000.00	2,00,00,000.00	0.00	2,00,00,000.00

Sd/-
[D. H. Ramani]
Proprietor

D. H. RAMANI & COMPANY
CHARTERED ACCOUNTANTS

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Ahmedabad –380 009.
Telephone No.:66614579

RECEIPT & PAYMENT

Account Head	F.Y. 2007-2008 (Current Year)		F.Y. 2006-2007 (Previous Year)	
	Receipt	Payment	Receipt	Payment
Cash on Hand (Op. Balance)	12010.00	0.00	10000.00	0.00
Bank Balance (Op. Balance) SBI,Guj.Uni.Br.-SB A/c.-10298781250	11320067.69	0.00	1169593.69	0.00
Bank Balance (Op. Balance) SBI,Guj.Uni.Br.-SB A/c.-10298782049	0.00	0.00	0.00	0.00
Cash on Hand (Cl. Balance)	0.00	15000.00	0.00	12010.00
Bank Balance (Cl. Balance) SBI,Guj.Uni.Br.-SB A/c.-10298781250	0.00	2358558.77	0.00	11320067.69
Bank Balance (Cl. Balance) SBI,Guj.Uni.Br.-SB A/c.-10298782049	0.00	1382818.92	0.00	0.00
Advertisement Exps.	0.00	185852.00	0.00	131580.00
Audit Fee	0.00	20000.00	0.00	15000.00
Automation of Gujarat University Library	3233.00	95138.00	528827.00	313814.00
Bank Charges	0.00	24221.00	0.00	8260.00
Bonus	0.00	27137.00	0.00	27137.00
Books &Journals	2448.00	29678.00	1047.00	40217.00
Building Maintenance	0.00	75326.00	0.00	32055.00
C.C.A. (Admn. Staff)	0.00	29715.00	0.00	31650.00
C.C.A. (Technical Staff)	0.00	23960.00	0.00	31200.00
C.P.W.D. A/c.	0.00	367382.00	0.00	0.00
CALIBER-2005	0.00	0.00	0.00	646.00
CALIBER-2006	0.00	0.00	0.00	97498.00
CALIBER-2007	0.00	40511.00	0.00	476535.00
CALIBER-2008	8600.00	492950.00	0.00	0.00
Canteen Account	39435.00	39435.00	36788.00	36794.00
Canteen Subsidy	0.00	37667.00	0.00	28548.00
Car Loan Advance	30825.00	0.00	40080.00	0.00
Cash Contra	2195502.00	2195502.00	1542429.00	1542429.00
Computer Software	0.00	97910.00	0.00	72236.00
Computers	0.00	1757540.00	0.00	77715.00
Conference & Symposium	0.00	41276.00	600.00	54800.00
Consumable, Stores & Spares	31280.00	322227.00	33832.00	238259.00
Conveyance Charges	0.00	165.00	0.00	1323.00
Stipend to Trainees (for Database Development Activities)	0.00	328502.00	0.00	305694.00
Dearness Allowance (Admn. Staff)	0.00	513335.00	0.00	379191.00
Dearness Allowance (Technical Staff)	0.00	637003.00	0.00	593274.00
Dearness Pay (Admn. Staff)	0.00	428271.00	0.00	454874.00
CARRIED FORWARD	13643400.69	11567080.69	3363196.69	16322806.69

Sd/-
[D. H. Ramani]
Proprietor

RECEIPT & PAYMENT

Account Head	F.Y. 2007-2008 (Current Year)		F.Y. 2006-2007 (Previous Year)	
	Receipt	Payment	Receipt	Payment
BROUGHT FORWARD	13643400.69	11567080.69	3363196.69	16322806.69
Dearness Pay (Technical Staff)	0.00	530360.00	0.00	713682.00
Death cum Retirement Gratuity	0.00	0.00	0.00	239940.00
Earnest Money Deposit	12000.00	12000.00	71500.00	71500.00
Electrical Fitting & Fixtures	0.00	6280.00	12560.00	12560.00
Electrical Maintenance	668.00	44752.00	459.00	14945.00
Electricity Charges	0.00	606901.00	545.00	663714.00
Entertainment Exps.	0.00	53970.00	0.00	98383.00
Equipment Maintenance	0.00	243352.00	0.00	200670.00
E-Subscription	0.00	372858.00	194257.00	194257.00
Festival Advance	3000.00	3000.00	10500.00	10500.00
Franking Machine Advance	153748.00	175000.00	177341.00	175000.00
Furniture & Fixtures	0.00	251909.00	0.00	15150.00
G.B. Meeting Expenses	0.00	226983.00	0.00	0.00
Garden Expenses	0.00	15305.00	0.00	18684.00
General Advance	592218.00	739500.00	403170.00	387350.00
General repairs & maintenance	5087.00	129978.00	2575.00	83300.00
Group Insurance Saving	64967.00	64967.00	44741.00	184881.00
GRUH Finance Ltd.	35539.00	35539.00	34104.00	34104.00
Guest House Caretaking Charges	0.00	36000.00	0.00	37250.00
H.D.F.C. A/c.	39144.00	39144.00	39144.00	39144.00
Honorarium Exps.	0.00	24600.00	0.00	10300.00
Hostel Charges	10025.00	0.00	2796.00	0.00
Hostel Maintenance	0.00	0.00	364.00	364.00
House Building Advance	35400.00	0.00	233070.00	0.00
House Rent Allowance (Admn. Staff)	0.00	192762.00	0.00	204716.00
House Rent Allowance (Technical Staff)	0.00	204920.00	0.00	304291.00
IGNOU	0.00	0.00	0.00	13000.00
Income Tax	2629683.00	2618328.00	3352656.00	3352656.00
Income & Expenditure A/c.	0.00	0.00	0.00	18151253.00
INFLIBNET Centre Employees P.F. Account	752104.00	752104.00	661462.00	661462.00
INFLIBNET Employees Co. Op. Credit Society Ltd.	243102.00	243102.00	267686.00	267686.00
INFLIBNET Sports & Recreation Club	1650.00	1650.00	2070.00	2070.00
CARRIED FORWARD	18221735.69	19192344.69	8874196.69	42485618.69

Sd/-
[D. H. Ramani]
Proprietor

D. H. RAMANI & COMPANY
CHARTERED ACCOUNTANTS

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RECEIPT & PAYMENT

Account Head	F.Y. 2007-2008 (Current Year)		F.Y. 2006-2007 (Previous Year)	
	Receipt	Payment	Receipt	Payment
BROUGHT FORWARD	18221735.69	19192344.69	8874196.69	42485618.69
Institutional Membership Fee	0.00	133033.00	0.00	22633.00
Interest A/c.	12770641.00	0.00	8707576.00	0.00
Interest on Car Loan	68733.00	0.00	0.00	0.00
Interest on Housing Loan	0.00	0.00	239066.00	0.00
Interest on Scooter Loan	23086.00	0.00	20890.00	0.00
Interest Receivable on Car Loan	0.00	0.00	12224.00	0.00
Investment in Fix Deposits	550163171.00	814310493.00	246674543.00	113550905.00
Leave Salary Contribution	6600.00	0.00	0.00	0.00
Licence Fee (H.R.D.)	0.00	0.00	6326.00	0.00
LTC Advance	30750.00	7300.00	43600.00	66850.00
LTC Expenses	0.00	26736.00	0.00	48735.00
L.I.C. of India	143529.00	143529.00	135109.00	135109.00
Maintenance of UGC Website	111619.00	66879.00	0.00	0.00
Medical Facility Contribution	900.00	900.00	0.00	0.00
Miscellaneous Income	59298.00	0.00	16047.00	0.00
Miscellaneous Expenses	0.00	14091.00	0.00	10094.00
Networking Expenses	0.00	1220903.00	0.00	556722.00
Newsletter Publication Expenses	0.00	28604.00	0.00	15670.00
Newspaper & Periodicals Expenses	0.00	216234.00	0.00	40204.00
Office Equipments	0.00	296340.00	0.00	117530.00
Office Expenses	0.00	31008.00	0.00	35560.00
Office Rent	0.00	1030000.00	0.00	1030000.00
Overtime Allowance (Admn. Staff)	0.00	2170.00	0.00	2814.00
P.F. Contribution	0.00	135400.00	0.00	164260.00
Pension & Gratuity	0.00	1040984.00	0.00	529172.00
Permanent Institutional Building Construction	0.00	365663.00	0.00	0.00
Planner-2006	0.00	0.00	0.00	326871.00
Planner-2007	0.00	476949.00	0.00	0.00
Postage & Telegram Expenses	0.00	167660.00	0.00	191983.00
Professional Fees	0.00	28500.00	0.00	43750.00
Professional Tax	22900.00	22900.00	23220.00	23220.00
Recruitment Exps.	0.00	119475.00	0.00	3950.00
CARRIED FORWARD	581622962.69	839078095.69	264752797.69	159401650.69

Sd/-
[D. H. Ramani]
Proprietor

D. H. RAMANI & COMPANY
CHARTERED ACCOUNTANTS

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Telephone No.:66614579

RECEIPT & PAYMENT

Account Head	F.Y. 2007-2008 (Current Year)		F.Y. 2006-2007 (Previous Year)	
	Receipt	Payment	Receipt	Payment
BROUGHT FORWARD	581622962.69	839078095.69	264752797.69	1594001650.69
Regional Training	0.00	75000.00	0.00	50000.00
Reimbursement of Medicines	0.00	325402.00	0.00	708168.00
Manpower Hiring Charges	0.00	430743.00	0.00	400336.00
Rent for Director Residence	0.00	150000.00	0.00	43125.00
Revenue Stamps A/c.	256.00	256.00	259.00	259.00
Salaries (Admn. Staff)	6620.00	874627.00	0.00	952972.00
Salaries (Technical Staff)	7154.00	2076906.00	0.00	2023710.00
Salary Payable	3418804.00	3418804.00	3530147.00	3530147.00
Scientific Equipment	0.00	43740.00	0.00	298995.00
Scooter Loan	23905.00	0.00	34310.00	24000.00
Security Deposit	2000.00	0.00	72000.00	55000.00
Security Expenses	0.00	447128.00	0.00	378478.00
Service Charges to AES Hostel for Trainees	0.00	475000.00	0.00	356000.00
Service Charges to Director's Residence	0.00	0.00	0.00	1800.00
SOUL Expenses	9460295.00	1607504.00	6227395.00	1958674.00
Staff welfare	0.00	0.00	0.00	2081.00
Stationary & Printing Expenses	45771.00	397072.00	0.00	329196.00
Stock	253014.00	242674.00	366994.00	253014.00
Sundry Deposit	0.00	150000.00	37500.00	0.00
TDS Receivable	58905.00	0.00	0.00	0.00
Telephone & Trunk Call Expenses	84.00	221470.00	0.00	335746.00
Transport Allowance (Admn. Staff)	0.00	33800.00	0.00	36600.00
Transport Allowance (Technical Staff)	3200.00	50572.00	0.00	63800.00
Traveling Advance	138800.00	138758.00	165200.00	189200.00
Traveling Expenses	55819.00	673307.00	255590.00	980749.00
University of Hyderabad	0.00	1398532.00	0.00	0.00
U.G.C. Grants	19500000.00	0.00	20000000.00	0.00
U.G.C. Grants for E-Subscription	621000000.00	408748454.00	129201253.00	275499576.00
UGC Grants for North East Region	0.00	3381504.00	30500000.00	0.00
UGC INFONET	160664000.00	131200838.00	50000000.00	056654625.00
Vehicle Hire Charges	0.00	621403.00	0.00	615544.00
BALANCE	1396261589.69	1396261589.69	505143445.69	505143445.69

Sd/-
[D. H. Ramani]
Proprietor

Governing Council (As on 31.03.2008)

Prof. S K Thorat   (President)
Chairman
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Dr. Moolchand Sharma   (Member)
Vice-Chairman
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Dr. R A Yadav   (Member)
Chairman, AICTE
Indira Gandhi Sports Complex
I P Estate, Ring Road
New Delhi

Dr. Samir K Brahmachari (Member)
Director General, CSIR
Anusandhan Bhawan
2, Rafi Marg,
New Delhi

Chairman, ICSSR
JNU Institutional Area
Aruna Asaf Ali Road
New Delhi

Dr. Kamlakar Singh   (Member)
Vice-Chancellor
M P Bhoj (Open) University
Red Cross Bhavan, Shivaji Nagar
Bhopal

Dr. A Balasubramanian (Nominated)
Director, EMRC
Deptt. of Communication & Journalism
University of Mysore
Crawford Hall, Mysore

Dr. Jagdish Arora   **(Since 30.08.2007)**
Director   (Member Secretary)
INFLIBNET Centre
Near Gujarat University Guest House
PB No.4116, Navrangpura
Ahmedabad

Governing Board (As on 31.03.2008)

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

Dr. Moolchand Sharma (Member)
Vice-Chairman
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Sh. R K Chauhan
Secretary (Member)
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Dr. Parimal Trivedi (Member)
Vice Chancellor
Gujarat University, Navrangpura
Ahmedabad

Dr. K Narayana Rao (Member)
Member Secretary
A I C T E
Indira Gandhi Sports Complex
I P Estate, Ring Road
New Delhi

Prof. J A K Tareen (Nominated)
Vice-Chancellor
Pondicherry University
R V Nagar, Kalapet
Pondicherry

Prof. P S Zacharias (Nominated)
Vice Chancellor
Goa University, Taleigao Plateau
Goa

Dr. S B Mujumdar (Nominated)
Vice-Chancellor
Symbiosis Institute of International
Business, Symbiosis Infotech Campus,
Plot No. 15, Rajiv Gandhi Infotech Park,
MIDC, Hinjewadi, Pune

Dr. Muttayya Koganuramath
Librarian (Nominated)
Sri Dorabji Tata Memorial library
Tata Institute of Social Sciences
Deonar, Mumbai

Prof. Rajiv Sangal (Nominated)
Director
International Institute of
Information Technology
Gachibowli, Hyderabad

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

Dr. Naresh Kumar Dadhich (Nominated)
Director
Inter University Centre for Astronomy
and Astrophysics
Ganeshkhind, Pune

Dr. Jagdish Arora (Since 30.08.2007)
Director (Member Secretary)
INFLIBNET Centre
Near Gujarat University Guest House
PB No.4116, Navrangpura
Ahmedabad

Building Committee

Prof. S K Khanna   **Chairman**
Jaypee Institute of Information
Technology Campus
A-10, Sector – 62
Noida

Dr. Parimal H Trivedi
Vice-Chancellor
Gujarat University
Navrangpura
Ahmedabad

Dr. (Mrs.) C S Meena
Additional Secretary
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Dr. (Mrs.) Renu Batra
Joint Secretary (IUC)
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Dr. Jagdish Arora
Director
INFLIBNET Centre
Near Gujarat University Guest House
PB No.4116, Navrangpura
Ahmedabad

Dr. R K Chadha
Joint Secretary
Lok Sabha
New Delhi

Dr. M N Patel
Principal
L D Engineering College
Navrangpura
Ahmedabad

A Senior Civil Engineer
Central Public Work Department
Gandhinagar
Gujarat

Shri Ashok Kumar Rai
Scientist D(CS)
INFLIBNET Centre
Near Gujarat University Guest House
PB No.4116, Navrangpura
Ahmedabad

Shri D P Negi
Admn.Officer (F)
INFLIBNET Centre
Near Gujarat University Guest House
PB No.4116, Navrangpura
Ahmedabad

Shri C K Shah   **Convener**
Admn.Officer (P&A)
INFLIBNET Centre
Near Gujarat University Guest House
PB No.4116, Navrangpura
Ahmedabad

Finance Committee (As on 31.03.2008)

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

Shri R K Chouhan
Secretary
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Shri C S Meena
Financial Adviser
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Prof. Rajiv Sangal
Director
International Institute of
Information Technology
Gachibowli
Hyderabad

Dr.(Mrs.) Renu Batra
Joint Secretary
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi

Dr. Jagdish Arora (since 30.08.2007)
INFLIBNET Centre
Near Gujarat University Guest House
Navrangpura, Ahmedabad

Shri Manoj Kumar K
Scientist-D (CS)
INFLIBNET Centre
Near. Gujarat University Guest House
Navrangpura, Ahmedabad

Shri D P Neg (Non-Member Secretary)
Admin Officer (PA&F)
INFLIBNET Centre
Near Gujarat University Guest House
Navrangpura, Ahmedabad

Technical, Administrative and Supporting Staff
(As on 31.03.2008)

Scientific & Technical Staff

Sr. No.	Name of the employee	Designation
1.	Dr. Jagdish Arora	Director (Since 30.08.2007)
2.	Shri Manoj Kumar K.	Scientist-D (CS)
3.	Shri Prem Chand	Scientist-C (LS)
4.	Shri Yatrik R. Patel	Scientist-B (CS)
5.	Shri H. G. Hosamani	Scientist-B (LS)
6.	Shri. S. K. Sharma	Scientist-B(CS) (till 17.08.2007)
7.	Shri Abhishek Kumar	Scientist-B (CS)(Since 27.03.2008)
8.	Shri K. Prakash	STO-I(LS) (on lien from 10.04.2008)
9.	Shri R. K. Chandrakar	STO-I (LS)
10.	Shri Umesh Gohel	STA-II (CS) (till 13.07.2007)
11.	Mrs. Hema Cholin	STA-I (LS)

Administrative & Support Staff

1.	Shri C. K. Shah	Admn. Officer (P&A)
2.	Shri D. P. Negi	Admn. Officer (F)
3.	Shri Ashok P. Achtani	Section Officer (P)
4.	Shri. S. F. Vanikar	Office Assistant-II (on lien from 31.07.2007)
5.	Shri Sanjay R. Shah	Office Asistant-II
6.	Smt. S. M. Munshi	Personal Asistant
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

Contractual Staff

1.	Shri. Dineshkumar L Rayka	Computer Programmer
2.	Shri Divyakant R. Vaghela	Computer Programmer
3.	Ms. Elora Parida	Project Officer (CS)

4.	Ms. Vaishali N. Parikh	Project Officer (LS)
5.	Shri Yogesh Jayantibhai Rathod	Project Officer (CS)
6.	Shri Ankur Kanubhai Doshi	Project Officer (CS)
7.	Shri. Vivekkumar Dhirubhai Patel	Project Officer (CS)
8.	Shri Swapnil P. Patel	Project Officer (CS)
9.	Ms. Heli Harishkumar Banker	Project Officer (CS)
10.	Ms. Ami R. Modi	Project Assistant (CS)
11.	Shri Mohit Kumar	Project Assistant (CS)
12.	Ms. Nilam C. Chavda	Project Assistant (LS)
13.	Ms. Kruti J. Trivedi	Project Assistant (LS)
14.	Shri Saroj Kumar Panda	Project Assistant (LS)
15.	Ms. Reshma Sevantikumar Panchal	Project Assistant (LS)
16.	Shri Dinesh Ranjan Pradhan	Project Assistant (LS)
17.	Shri Dharmeshkumar Arunkumar Shah	Technical Assistant (CS)
18.	Shri Vijaykumar M Shrimali	Technical Assistant (CS)
19.	Shri Kamalesh J. Patel	Technical Assistant (LS)
20.	Shri Dipak N. Makwana	Trainee (DEO)
21.	Shri Rupesh Kumar P Patel	Trainee(OfficeAssistant DEO)
22.	Ms. Jigisha Nityanandbhai Pandya	Trainee(OfficeAssistant DEO)
23.	Shri Chirag J. Solanki	Trainee(OfficeAssistant DEO)

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

S.No.	University Name	Records in Union 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	Bengal Engineering College	4
15	Bharathiar University	80327
16	Bharathidasan University	21177
17	Bhavnagar University	27284
18	Birla Institute of Technology & Science, Pilani	72012
19	Chhatrapati Shahu Ji Maharaj University	3444
20	Cochin Uni. Of Science & Technology	71903
21	Devi Ahilya Vishwavidyalaya	7762
22	Dibrugarh University	57362
23	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	34909
24	Dr. Bhimrao Ambedkar Agra University	88259
25	Gandhigram Rural Institute	25145
26	Gauhati University, Guwahati	2135
27	Goa University	95205
28	Gokhale Institute of Politics & Economics	82581
29	Gujarat Vidyapith, Ahmedabad	441870
30	Gulbarga University	50712
31	Guru Jambheshwar University	17476
32	Gurukula Kangri Vishwavidyalaya	18637
33	Himachal Pradesh University, Simla	43680
34	Indian Institute of Technology, Roorkee	68451

35	Indira Kala Sangeet Vishwavidyalaya	6933
36	International Inst. For Pop. Sciences	51132
37	Jadavpur University, Kolkatta	222481
38	Jain Vishva Bharati Institute	4712
39	Jamia Hamdard University	37477
40	Jiwaji University, Gwalior	11923
41	Kakatiya University	56645
42	Kameshwar Singh Darbhangha Sanskrit Univ.	1349
43	Kannada University	34577
44	Karnatak University	130501
45	Kumaun University	3827
46	Kurukshetra University	198633
47	Kuvempu University	15913
48	Madurai Kamraj University	194413
49	Manipal Academy of Higher Education	8
50	M S University of Baroda, Vadodara	50793
51	Maharshi Dayanand Saraswati University, Ajmer	8214
52	Mahatma Gandhi Gramoday Vishwavidyalaya, Chitrakoot	3532
53	Mahatma Gandhi University, Kottayam	28970
54	Mangalore University, Mangalore	30560
55	Manipur University	51862
56	Manonmaniam Sundaranar University	30272
57	Maulana Azad National Urdu University	9259
58	Mohanlal Sukhadia University, Udaipur	65102
59	Nagaland University	15549
60	Nagarjuna University (Acharya Nagarjun Univ.)	26488
61	North Gujarat University (Hemchandracharya North Gujarat University)	24140
62	North Eastern Hill University, Shilong	84477
63	North Maharashtra University	19216
64	Osmania University, Hyderabad	54059
65	Pandit Ravishankar Shukla University	61066
66	Panjab University, Chandigarh	205168
67	Pondicherry University	37167
68	Potti Sreeramulu Telugu University	19292
69	Punjabi University, Patiala	26906
70	Rabindra Bharati University	10461
71	Rani Durgawati Vishwavidyalaya	1554
72	Rashtriya Sanskrit Vidyapeetha	16649
73	Sambalpur University	21905
74	Sampurnand Sanskrit Vishwavidyalaya	6046

75	Sardar Patel University, Vallabh Vidhyanagar, Anand	144472
76	Saurashtra University, Rajkot	20831
77	School of Planning & Architect	1
78	Shivaji University, Kolhapur	60500
79	SNDT Women's University, Mumbai	56095
80	South Gujarat University (Veer Narmad South Gujarat University)	24273
81	Sri Krishnadevaraya University, Anantapur (Andhra Pradesh)	34632
82	Sri Padmavati Mahila Vishwavidyalaya	37086
83	Sri Sathya Sai Institute of Higher Learning	28918
84	Sri Venkateswara University, Tirupati	56522
85	Swami Ramanand Tirth Maratawada University	12498
86	Tamil University	7213
87	Tata Institute of Social Sciences, Mumbai	50566
88	Tezpur University	18414
89	Thapar Institute of Engineering and Technology, Patiala	13806
90	Tilak Maharashtra Vidyapith	18175
91	Tilak Manjhi Bhagalpur University	3142
92	University of Allahabad, Allahabad	5300
93	University of Calcutta, Kolkatta	12745
94	University of Calicut, Calicut	27799
95	University of Hyderabad, Hyderabad	121986
96	University of Jammu, Jammu	15539
97	University of Kalyani	1035
98	University of Kashmir, Kashmir	47771
99	University of Kerala, Kottayam	109650
100	University of Madras, Chennai	49867
101	University of Mumbai, Mumbai	106343
102	University of North Bengal	66672
103	University of Pune, Pune	35591
104	Vidyasagar University, Vidyasagar	17695
105	Visva Bharati University, Santiniketan	6336
	Total Records	**55,88,420**

No. of Records Contributed by the Participating Universities to the Serials Holdings Database

S. No	University Name	No. of 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	789
43.	Kathmandu University	125
44.	Kurukshetra University	1575
45.	Kuvempu University	332
46.	Madurai Kamaraj University	531
47.	Maharaja Sayajirao University of Baroda, Vadodara	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, Vallabh Vidyanagar, Anand	427

69.	Saurashtra University, Rajkot	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**

No. of Records Contributed by the Universities to the Theses Database

Sl.No	University Name	Records
1	Acharya N G Ranga Agricultural University	209
2	Alagappa University	102
3	Aligarh Muslim University	10251
4	All India Institute of Medical Sciences	208
5	Amravati University (Sant Gadge Baba Amravati University)	147
6	Andhra University	6037
7	Anna University	736
8	Annamalai University	2253
9	Arunachal University (Now, Rajeev Gandhi University)	62
10	Assam Agricultural University	82
11	Assam University	91
12	Avinashilingam Institute for Home Science & Higher Education for Women	99
13	Awadhesh Pratap Singh Vishwavidyalaya	984
14	B N Mandal University	354
15	Babasaheb Bhimrao Ambedkar Bihar University	872
16	Babasaheb Bhimrao Ambedkar University	8
17	Banaras Hindu University	15860
18	Banasthali Vidyapith	118
19	Bangalore University	1562
20	Barkatullah Vishwavidyalaya	1002
21	Berhampur University	381
22	Bengal Engineering College	4
23	Bharathiar University	68
24	Bharathidasan University	125
25	Bharati Vidyapeeth	10
26	Bhavnagar University	690
27	Bidhan Chandra Krishi Vishwavidyalaya	406
28	Birla Institute of Technology, Mesra	5
29	Birla Institute of Technology & Science, Pliani	224
30	Birsa Agricultural University	89
31	Central Drugs Research Institute	45
32	Central Institute of English & Foreign Languages	120

33	Central Institute of Fisheries Education	2
34	Ch.Charan Singh Haryana Agricultural University	1046
35	Ch.Charan Singh University	1926
36	Ch.Sarwan Kumar Himachal Pradesh KrishiVishwavidyalaya	88
37	Chandra Shekhar Azad University of Agriculture & Technology	372
38	Chhatrpati Shahu Ji Maharaj Kanpur University	2252
39	Cochin University of Science & Technology	1004
40	Dakshina Bharat Hindi Prachar Sabha	24
41	Dayalbagh Educational Institute	117
42	Deccan College Post Graduate and Research Institute	46
43	Deendayal Upadhyay Gorakhpur University	1626
44	Defence Science Centre	13
45	Dev Sanskrit Vishwavidyalaya	2
46	Devi Ahilya Vishwavidyalaya	2317
47	Dibrugarh University	578
48	Dr.Babasaheb Ambedkar Marathwada University	1947
49	Dr.Bhim Rao Ambedkar University	3675
50	Dr.Harisingh Gour Vishwavidyalaya	2076
51	Dr.Panjabrao Deshmukh Krishi Vidyapeeth	196
52	Dr.Ram Manohar Lohia Awadh University	383
53	Dr. Y S Parmar University of Horticulture and Forestry	368
54	Dravidian University	1
55	Fakir Mohan University	8
56	Forest Research Institute	291
57	Gandhigram Rural Institute	178
58	Gauhati University	2685
59	Goa University	140
60	Gokhale Institute of Politics & Economics	3
61	Govind Ballabh Pant University of Agriculture &Technology	622
62	Gujarat Agricultural University	152
63	Gujarat Ayurved University	59
64	Gujarat University	1338
65	Gujarat Vidyapith	44
66	Gulbarga University	425
67	Guru Angad Dev Veterinary and Animal Sciences University	5
68	Guru Ghasidas University	1577
69	Guru Jambheshwar University	32
70	Guru Nanak Dev University	569

71	Gurukula Kangri Vishwavidyalaya	127
72	Hemwati Nandan Bahuguna Garhwal University	456
73	Himachal Pradesh Krishi Vishwavidyalaya	313
74	Himachal Pradesh University	1232
75	Indian Agricultural Research Institute	1997
76	Indian Institute of Science	2177
77	Indian Institute of Technology, Bombay	1160
78	Indian Institute of Technology (University of Roorkee)	2514
79	Indian Institute of Technology, Chennai	1958
80	Indian Institute of Technology, Delhi	2293
81	Indian Institute of Technology, Kanpur	1123
82	Indian Institute of Technology, Kharagpur	1449
83	Indian Institute of Tropical Meteorology	2
84	Indian School of International Studies	47
85	Indian School of Mines, Dhanbad	370
86	Indian Statistical Institute	125
87	Indian Veterinary Research Institute	111
88	Indira Kala Sangit Vishwavidyalaya	138
89	Industrial Toxicology Research Centre	9
90	International Institute for Population Sciences	119
91	Jadavpur University	1292
92	Jai Narain Vyas University, Jodhpur	765
93	Jai Prakash Vishwavidyalaya	6
94	Jain Vishva Bharati Institute	43
95	Jamia Hamdard	379
96	Jamia Milia Islamia	632
97	Jawaharlal Nehru Krishi Vishwa Vidyalaya	204
98	Jawaharlal Nehru Institute of Postgraduate Medical Education and Research	2
99	Jawaharlal Nehru Technological University	50
100	Jawaharlal Nehru University	3357
101	Jiwaji University	1322
102	Kakatiya University	2428
103	Kameshwra Singh Darbhangha Sanskrit University	274
104	Kannada University, Hampi	118
105	Kannur University	14
106	Karnatak University	2060
107	Kranataka State Open University	49

108	Kavikulguru Kalidas Sanskrit Visvavidyalaya	2
109	Kerala Agricultural University	110
110	Konkan Krishi Vidyapeeth	24
111	Kota Open University (Vardhaman MahaveerUniversity)	44
111	Kumaun University	1035
112	Kurukshetra University	4356
113	Kuvempu University	543
114	Lalit Narayan Mithila University	178
115	Laxmibai National Institute of Physical Education	4
116	M J P Rohilkhand University	1579
117	Madhya Pradesh Bhoj University	5
118	Madurai Kamaraj University	953
119	Magadh University	1118
120	Maharaja Sayajirao University of Baroda, Vadodara	1826
121	Maharana Pratap University of Agriculture and Technology	137
122	Maharashtra Animal and Fishery Sciences University	3
123	Maharshi Dayanand Saraswati University	52
124	Maharshi Dayanand University	1532
125	Maharshi Mahesh Yogi Vedic University	2
126	Mahatma Gandhi Kashi Vidyapeeth	142
127	Mahatma Gandhi University	12
128	Mahatma Phule Krishi Vidyapeeth	401
129	Makhanlal Chaturvedi National University of Journalism	4
130	Mangalore University	56
131	Manipal Academy of Higher Education	8
132	Manipal Univerity	4
133	Manipur University	950
134	Manonmaniam Sundaranar University	85
135	Marathwada Krishi Vidyapeeth	485
136	Mizoram University, Aizwal	29
137	Mohanlal Sukhadia University	804
138	Mother Teresa Women's University	7
139	Nagaland University	30
140	Nagarjuna University (Acharya Nagarjuna University)	612
141	Nagpur University, Nagpur	10259
142	Narendra Deva University of Agriculture & Technology	118
143	National Botanical Research Institute	3
144	National Brain Research Centre	3

145	National Chemical Laboratory	16
146	National Dairy Research Institute	170
147	National Institute of Mental Health & Neuro Sciences	193
148	National Institute of Pharmaceutical Education and Research	64
149	National Institute of Technology,Nagpur,	1
150	National Institute of Technology,Warangal	5
151	National Institute of Technology, Rourkela	3
152	National Institute of Technology, Silchar	9
153	National Sugar Institute	3
154	North Eastern Hill University	978
155	North Gujarat University (Hemchandracharya North Gujarat University)	200
156	North Maharashtra University	237
157	North Orissa University	6
158	Orissa University of Agriculture and Technology	94
159	Osmania University	7340
160	Pandit Ravishankar Shukla University	1008
161	Punjab Agriculture University	1676
162	Panjab University, Chandigarh	3373
163	Patna University, Patna	727
164	Pondicherry University, Pondicherry	28
165	Postgraduate Institute of Medical Education and Research	305
166	Potti Sriramulu Telugu University	155
167	Punjab Agricultural University	1624
168	Punjabi University	985
169	Rabindra Bharati University	432
170	Rajasthan Agriculture University	167
171	Rajendra Agricultural University	166
172	Rajiv Gandhi Proudyogiki Vishwavidyalaya	35
173	Raman Research Institute	3
174	Ranchi University	336
175	Rani Durgavati Vishwavidyalaya, Jabalpur	1846
176	Rashtriya Sanskrit Sansthan	35
177	Rashtriya Sanskrit Vidyapeeth	81
178	Sambalpur University	888
179	Sampurnanand Sanskrit Vishwavidyalaya	80
180	Sardar Patel University, Vallabh Vidyanagar, Anand	919
181	Satyabhama Institute of Science and Technology	2

182	Saurashtra University	920
183	School of Planning & Architect	1
184	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir	37
185	Sher-E-Kashmir University of Agricultural Sciences and Technology Jammu	1
186	Shivaji University	1192
187	Shreemati Nathibai Damodar Thackersey Women's University	705
188	Shri Jagannath Sanskrit Visvavidyalaya	72
189	Siddhu Kanhu University	2
190	Sikkim-Manipal University of Health, Medical & Technological Sciences	4
191	South Gujarat University (Veer Narmad South Gujarat University)	231
192	Sree Chitra Tirunal Institute for Medical Sciences and Technology	7
193	Sree Sankaracharya University of Sanskrit	4
194	Sri Krishnadevaraya University	347
195	Sri Padmavati Mahila Visvavidyalayam	29
196	Sri Sathya Sai Institute of Higher Learning	31
197	Sri Venkateswara University	2524
198	Swami Ramanand Teerth Marathwada University	475
199	Tamil Nadu Agricultural University	405
200	Tamil Nadu Dr M G R Medical University	3
201	Tamil Nadu Veterinary and Animal Sciences University	151
202	Tata Institute of Fundamental Research	20
203	Tata Institute of Social Sciences	61
204	Tezpur University	54
205	Thapar Institute of Engineering and Technology	22
206	Tilak Maharashtra Vidyapeeth	5
207	Tilka Manjhi Bhagalpur University	420
208	Tripura University	34
209	University of Agricultural Sciences, Bangalore	329
210	University of Agricultural Sciences, Dharwad	26
211	University of Allahabad	1947
212	University of Bundelkhand	352
213	University of Burdwan	1629
214	University of Calcutta	8520
215	University of Calicut	891
216	University of Delhi	17100

217	University of Hyderabad	499
218	University of Jammu	860
219	University of Kalyani	354
220	University of Kashmir	357
221	University of Kerala	1454
222	University of Lucknow	2622
223	University of Madras	3949
224	University of Mumbai	6014
225	University of Mysore	1049
226	University of North Bengal	788
227	University of Pune	3135
228	University of Rajasthan	2359
229	Utkal University, Bhubneswar	1786
230	Utkal University of Culture	1
231	Uttar Pradesh Technical University	44
232	Veer Kunwar Singh University	59
233	Vellore Institute of Technology	9
234	Vidyasagar University	155
235	Vikram University, Ujjain	1941
236	Vinoba Bhave University	285
237	Visva Bharati University, Shanti Niketan, West Bengal	548
238	Visvesvaraya National Institute of Technology	22
239	Yashwantrao Chavan Maharashtra Open University	47
	Total	**2,20,206**

State-Wise list of the SOUL Installation

State-wise Installation of Soul Software (As on 31-03-2008)

S.No.	Name of the State	No. of Installations
1	Jammu & Kashmir	45
2	Himachal Pradesh	13
3	Punjab	81
4	Haryana	30
5	Uttaranchal	14
6	Delhi	15
7	Uttar Pradesh	31
8	Rajasthan	37
9	Gujarat	349
10	Daman	2
11	Madhya Pradesh	132
12	Bihar	9
13	Chhattisgarh	9
14	Jharkhand	2
15	Maharashtra	228
16	Goa	1
17	Andhra Pradesh	185
18	Karnataka	25
19	Kerala	96
20	Tamil Nadu	22
21	Pondicherry	3
22	Orissa	7
23	West Bengal	54
24	North Eastern States	146
25	Nepal	2
	TOTAL	**1538**

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

Sl. No.	Name of the University	Connectivity Status
1	Alagappa University, Karaikudi, Tamil Nadu	BB VSAT-256 Kbps
2	Aligarh Muslim University, Aligarh, Uttar Pradesh	SCPC-512 Kbps
3	Amravati University, Amaravati, Maharashtra	BB VSAT-256 Kbps
4	Andhra University, Visakhapatanam, Andhra Pradesh	SCPC-1 Mbps
5	Anna University, Chennai, Tamil Nadu	LL-2 Mbps(1:1)
6	Annamalai University, Chennai, Tamil Nadu	SCPC-512 Kbps
7	Arunachal University, Itanagar	SCPC-1Mbps
8	Assam University, Silchar, Assam	SCPC-512 Kbps
9	Avinashilingam Institute of Home Science & Higher Education for Women, Coimbatore, Tamil Nadu	BB VSAT-256 Kbps
9	Awadhesh Pratap Singh University, Rewa, Madhya Pradesh	BB VSAT-256 Kbps
10	Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh	LL-2 Mbps(1:1)
11	Babasaheb Bimrao Ambedkar Bihar University, Muzaffarpur, Bihar	BB VSAT-256 Kbps
12	Banaras Hindu University, Varanasi, Uttar Pradesh	LL-2 Mbps(1:1)
13	Banasthali Vidyapith, Banasthali, Rajasthan	SCPC-512 Kbps
14	Banglore University, Bangalore, Karnataka	LL-2 Mbps(1:1)
15	Barkatullah Vishwavidyalaya, Bhopal, Madhya Pradesh	LL-2 Mbps(1:1)
16	Bengal Engineering & Science University, Howrah, West Bengal	LL-2 Mbps(1:1)
17	Berhampur University, Behrampur, Orissa	BB VSAT-256 Kbps
18	Bharathiar University, Coimbatore, Tamil Nadu	SCPC-512 Kbps
19	Bharathidasan University, Tiruchirapalli, Tamil Nadu	SCPC-512 Kbps
20	Bharati Vidyapeeth, Pune, Maharashtra	LL-2 Mbps(1:1)
21	Bhavnagar University, Bhavnagar, Gujarat	BB VSAT-256 Kbps
22	Birla Institute of Technology & Science, Pilani, Rajasthan	SCPC-512 Kbps
23	Birla Institute of Technology, Ranchi, Jharkhand	SCPC-512 Kbps
24	Bundelkhand University, Jhansi, Uttar Pradesh	BB VSAT-256 Kbps
25	Burdwan University, Burdwan, West Bengal	BB VSAT-512 Kbps
26	Central Inst. of English & Foreign Language, Hyderabad, Andhra Pradesh	LL-2 Mbps(1:1)
27	Central Institute of Higher Tibetan Studies, Varanasi,	

	Uttar Pradesh	SCPC-512 Kbps
28	Chaudhary Charan Singh University, Meerut, Uttar Pradesh	LL-2 Mbps(1:1)
29	Chhatrapati Shahu Ji Maharaj University, Kanpur, Uttar Pradesh	LL-2 Mbps(1:1)
30	Cochin University of Science & Technology, Cochin, Kerala	LL-1 Mbps(1:3)
31	Dayalbagh Educational Institute, Agra, Uttar Pradesh	BB VSAT-256 Kbps
32	Deccan College Post G&R Institute, Pune, Maharashtra	LL-2 Mbps(1:1)
33	Delhi University (North Campus), Delhi	LL-2 Mbps(1:1)
34	Devi Ahilya Vishwavidyalaya, Indore, Madhya Pradesh	LL-2 Mbps(1:1)
35	Dibrugarh University, Dibrugarh, Assam	SCPC-256 Kbps
36	Dr. Babasaheb A. M. University, Aurangabad, Maharashtra	SCPC-512 Kbps
38	Dr. Bhim Rao Ambedkar Univ, Agra, Uttar Pradesh	LL-2 Mbps(1:1)
39	Dr. Harisingh Gour Vishwavidhlaya, Sagar, Madhya Pradesh	BB VSAT-256 Kbps
40	Dr. Ram Manohar Lohia Avadh University, Faizabad, Uttar Pradesh	BB VSAT-256Kbps
41	Gandhigram Rural Institute,Dindigul Dist.,Tamil Nadu	BB VSAT-256 Kbps
42	Goa University, Taleigao Plateau, Goa	SCPC-512 Kbps
43	Gokhale Institute of Politics & Economics, Pune, Maharashtra	LL-2 Mbps(1:1)
44	Gujarat University, Ahmedabad, Gujarat	SCPC-512 Kbps
45	Gujrat Vidyapith, Ahmedabad, Gujarat	BB VSAT-256 Kbps
46	Gullbarga University, Gulbarga, Karnataka	SCPC-512 Kbps
47	Guru Ghasidas University, Bilaspur, Chhattisgarh	BB VSAT-256 Kbps
48	Guru Gobind Singh Indraprastha University, Delhi	LL-2 Mbps(1:1)
49	Guru Jambeshwar University, Hisar, Haryana	SCPC-256 Kbps
50	Guru Nanak Dev University, Amritsar, Punjab	SCPC-512 Kbps
51	Gurukula Kangri Vishwavidyalay, Hardwar, Uttaranchal	BB VSAT-256 Kbps
52	Guwahati University, Guwahati, Assam	LL-2 Mbps(1:1)
53	Hemwati Nandan Bahuguna Garhwal University, Srinagar, Uttaranchal	SCPC-512Kbps
54	Himachal Pradesh University, Shimla, Himachal Pradesh	SCPC-512 Kbps
55	Indira Kala Sangeet Vishwavidyalaya, Khairagarh, Chhattisgarh	BB VSAT-256 bps
56	Jadavpur University, Kolkata, West Bengal	LL-2 Mbps(1:1)
57	Jai Narain Vyas University, Jodhpur, Rajasthan	LL-2 Mbps(1:1)
58	Jain Vishwa Bharati Institute, Ladnun, Rajasthan	BB VSAT-256 Kbps
59	Jamia Hamdard University, New Delhi	LL-2 Mbps(1:1)
60	Jamia Milia Islamia University, Delhi	LL-2 Mbps(1:1)
61	Jawaharlal Nehru Technological University,	

	Hyderabad, Andhra Pradesh	LL-2 Mbps(1:1)
62	Jiwaji University, Gwalior, Madhya Pradesh	BB VSAT-256 Kbps
63	Kakatiya University, Warangal, Andhra Pradesh	BB VSAT-512 Kbps
64	Kalyani University, Kalyani, West Bengal	LL-2 Mbps(1:1)
65	Kameshwara S. Darbhanga Sanskrit University, Darbhanga, Bihar	BB VSAT-256 Kbps
66	Kannada University, Distt. Bellary, Karnataka	BB VSAT-256 Kbps
67	Karnatak University, Dharwad, Karnataka	SCPC-512 Kbps
68	Kumaun University, Nainital, Uttaranchal	BB VSAT-256 Kbps
69	Kurukshetra University, Kurukshetra, Haryana	LL-2 Mbps(1:1)
70	Kuvempu University, Dist-Shimoga, Karnataka	BB VSAT-256 Kbps
71	Lalit Narayan Mithila University, Darbhanga, Bihar	BB VSAT-256 Kbps
72	Madurai Kamraj University, Madurai, Tamil Nadu	SCPC-512 Kbps
73	Magadh University, Bodhgaya, Bihar	BB VSAT-256 Kbps
74	Maharaja Sayajirao University of Baroda, Vadodara, Gujarat	SCPC-512 Kbps
75	Maharishi Dayan & Saraswati University, Ajmer, Rajasthan	BB VSAT-256 Kbps
76	Maharishi Dayanand University, Rohtak, Haryana	LL-2 Mbps(1:1)
77	Mahatama Gandhi University, Kottayam, Kerala	LL-1 Mbps(1:3)
78	Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra	BB VSAT-256 Kbps
79	Mahatma Gandhi Chitrakoot, Distt Satna, Madhya Pradesh	BB VSAT-256 Kbps
80	Mahatma Gandhi Kashi Vidyapeeth, Varanasi, Uttar Pradesh	LL-2 Mbps(1:1)
81	Mangalore University, Mangalore, Karnataka	SCPC-512 Kbps
82	Manipur University, Imphal, Manipur	SCPC-1 Mbps
83	Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu	BB VSAT-256 Kbps
84	Maulana Azad National Urdu University, Hyderabad, Andhra Pradesh	LL-2 Mbps(1:1)
85	Mizoram University, Aizwal, Mizoram	BB VSAT-512 Kbps
86	MJP Rohilkhand University, Bareilly, Uttar Pradesh	BB VSAT-256 Kbps
87	Mohan Lal Sukhadia University, Udaipur, Rajasthan	SCPC-512 Kbps
88	Mother Teresa Womens University, Kodaikanal, Tamil Nadu	BB VSAT-256 Kbps
89	Nagaland University, Kohima, Nagaland	BB VSAT-512 Kbps
90	Nagarjuna University, Guntur, Andhra Pradesh	SCPC-1 Mbps
91	Nagpur University, Nagpur, Maharashtra	SCPC-512 Kbps
92	National Law School of India University, Bangalore, Karnataka	LL-2 Mbps(1:1)
93	North Eastern Hill University, Shillong, Meghalaya	SCPC-1 Mbps
94	North Gujrat University, Patan, Gujarat	SCPC-512 Kbps
95	North Maharashtra University, Jalgaon, Maharashtra	SCPC-512 Kbps

96	Osmania University, Hyderabad, Andhra Pradesh	LL-2 Mbps(1:3)
97	Pandit Ravishankar Shukla, Raipur, Chhattisgarh	SCPC-1 Mbps
98	Patna University, Patna, Bihar	BB VSAT-256 Kbps
99	Pondicherry University, Pondichery, Pondichery	BB VSAT-256 Kbps
100	Potti Sreeramulu Telugu University, Hyderabad, Andhra Pradesh	LL-2 Mbps(1:1)
101	Punjab University, Chandigarh, Chandigarh	LL-2 Mbps(1:1)
102	Punjabi University, Patiala, Punjab	BB VSAT-256 Kbps
103	Rabindra Bharati University, Kolkata, West Bengal	LL-2 Mbps(1:1)
104	Rajasthan Vidyapith, Udaipur, Rajasthan	BB VSAT-256 Kbps
105	Rajiv Gandhi University, Itanagar, Arunachal Pradesh	SCPC-1 Mbps
106	Ranchi University, Ranchi, Jharkhand	LL-2 Mbps(1:1)
107	Rani Durgavati Vishwavidyalaya, Jabalpur, Madhya Pradesh	BB VSAT-256 Kbps
108	Rashtriya Sanskrit Vidyapeeth, Tirupati, Andhra Pradesh	BB VSAT-256 Kbps
109	Sambalpur University, Sambhalpur, Orissa	BB VSAT-256 Kbps
110	Sampurnanand Sanskrit Vishwavidyalaya, Varanasi, Uttar Pradesh	LL-2 Mbps(1:1)
111	Sardar Patel University, Vallabh Vidyanagar, Anand	SCPC-512 Kbps
112	Saurashtra University, Rajkot, Gujarat	SCPC-512 Kbps
113	Shivaji University, Kolhapur, Maharashtra	SCPC-512 Kbps
114	Shree Jagannath Sanskrit Visvadyalaya, Puri, Orissa	BB VSAT-256 Kbps
115	Shree Venkateswara University, Tirupati, Andhra Pradesh	SCPC-512 Kbps
116	Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeeth, New Delhi	LL-2 Mbps(1:1)
117	SNDT Women's University, Mumbai, Maharashtra	LL-2 Mbps(1:3)
118	South Gujrat University, Surat, Gujarat	SCPC-512 Kbps
119	Sri Chandresekharendra S. Viswa Mahavidyalaya, Kancheepuram, Tamil Nadu	BB VSAT-256 Kbps
120	Sri Krishnadevaraya University, Anantapur, Andhra Pradesh	BB VSAT-256 Kbps
121	Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh	BB VSAT-256 Kbps
122	Sri Sathya Sai Institute of Higher Learning, Anantapur, Andhra Pradesh	BB VSAT-256 Kbps
123	Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra	SCPC-512 Kbps
124	Tamil University, Thanjavur, Tamil Nadu	BB VSAT-256 Kbps
125	Tata Institute of Social Sciences, Mumbai, Maharashtra	LL-2 Mbps(1:1)
126	Tezpur University, Tezpur, Assam	SCPC-512 Kbps
127	Thapar University, Patiala, Punjab	SCPC-512 Kbps

128	Tilak Maharashtra Vidyapeeth Bhavan, Pune, Maharashtra	LL-2 Mbps(1:1)
129	Tilka Manjhi Bhagalpur University, Bhagalpur, Bihar	BB VSAT-256 Kbps
130	Tripura University, Agartala, Tripura	SCPC-512 Kbps
131	Univ. of Kashmir, Srinagar, Jammu and Kashmir	SCPC-1 Mbps
132	University of Allahabad, Allahabad, Uttar Pradesh	LL-2 Mbps(1:3)
133	University of Calcutta, Kolkata, West Bengal	LL-2 Mbps(1:1)
134	University of Calicut, Kozhikode, Kerala	LL-1 Mbps(1:3)
135	University of Hyderabad, Hyderabad, Andhra Pradesh	LL-2 Mbps(1:1)
136	University of Jammu, Jammu, Jammu and Kashmir	SCPC-1 Mbps
137	University of Kerala, Thiruvananthapuram, Kerala	LL-2 Mbps(1:1)
138	University of Lucknow, Lucknow, Uttar Pradesh	LL-2 Mbps(1:3)
139	University of Madras, Chennai, Tamil Nadu	LL-2 Mbps(1:3)
140	University of Mumbai, Mumbai, Maharashtra	LL-2 Mbps(1:3)
141	University of Mysore, Mysore, Karnataka	LL-512 Kbps(1:3)
142	University of North Bengal, Distt Darjeeling, West Bengal	SCPC-512 Kbps
143	University of Pune, Pune, Maharashtra	LL-2 Mbps(1:1)
144	University of Rajasthan, Jaipur, Rajasthan	LL-2 Mbps(1:1)
145	Utkal University, Bhubaneswar, Orissa	LL-2 Mbps(1:3)
146	V B S Purvanchal University, Jaunpur, Uttar Pradesh	BB VSAT-256 Kbps
147	Vidyasagar University, Midnapore, West Bengal	BB VSAT-1 Mbps
148	Vikram University, Ujjain, Madhya Pradesh	LL-2 Mbps(1:1)
149	VisvaBharati, Shantiniketan, West Bengal	SCPC-512 Kbps

E-Resources Subscribed Under UGC-Infonet Digital Library Consortium

Sl.	Electronic Resources	URL	No. of Jrnls.	No. of Univ.	Phase
Full-text Resources					
1.	ACS	http://www.pubs.acs.org/	37	100	I & II
2.	AIP	http:// www.scitation.org/	18	100	I & II
3.	APS	http:// www.scitation.org/	10	100	I & II
4.	Annual Reviews	http://arjournals.annualreviews.org/	33	100	I & II
5.	Blackwell	http://www.interscience.wiley.com/	497	60	I & II
6.	CUP-STM	http://journals.cambridge.org/	223	100	I & II
	CUP-HSS	http://journals.cambridge.org/		50	I & II
7.	Cell Press (Elsevier)	http://www.sciencedirect.com/	34	50	I
8.	Emerald – Lib. Sci.	http://www.emeraldinsight.com/	29	60	I & II
9.	Institute of Physics	http://www.iop.org/EJ/	46	100	I & II
10.	Jstor	http://www.jstor.org/	1048	64	I & II
11.	Nature	http://www.nature.com/	1	50	I & II
12.	OUP	http://www.oxfordjournals.org	198	75	I & II
13.	Portland Press	http://www.portlandpress.com/ pp/default.htm	8	50	I
14.	Project Euclid	http://projecteuclid.org/	36	50	I
15.	Project Muse	http://muse.jhu.edu/journals	297	100	I & II
16.	RSC	http://www.rsc.org/	29	100	I & II
17.	SIAM Journals	http://epubs.siam.org/	14	50	I
18.	Springer Link	http://www.springerlink.com/	1950	125	I – III
19.	Taylor & Francis	http://www.informaworld.com/	1076	80	I & II
Bibliographic Databases					
20.	JCCC	http://jccc-ugcinfonet.in/		150	I – III
21.	MathSciNet	http://www.ams.org/mathscinet		50	I
22.	SciFinderScholar	http://www.cas.org/SCIFINDER/ SCHOLAR/index.html		20	I
23.	Analytical Abstracts	http://www.rsc.org/aa		100	I & II
24.	Catalysts & Catalysed Reactions	http://www.rsc.org/catalysts		100	I & II
25.	Methods in Organic Synthesis	http://www.rsc.org/mos		100	I & II
26.	Natural Product Updates	http://www.rsc.org/npu		100	I & II
27.	Chemical Hazards in Industry	http://www.rsc.org/chi		100	I & II
28.	Laboratory Hazards Bulletin	http://www.rsc.org/lhb		100	I & II