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Content Page

i. Special Commentary	10
• Tal Pavel	
1. Evaluative Study of Public Library Infrastructure for Adult Literacy Initiative in Delhi	11
• Kanwer Pal Singh and Projes Roy	
2. The Capacity of Lipi Bandung Library in Community Empowerment	19
• Kamaludin	
3. NPA: Need for Potent Antidote	25
• Divya Kumar Agrawal	
4. Women in Real Estate Sector – A Case Study of Ranchi District	29
• Sushma Srivastava	
5. National Brain Research Centre Digital Library and its Services	37
• Shalini Varshney and D.D. Lal	
6. Current Challenges in Digital Landscape and Assistive Technologies for Visually Impaired Scholars: An Example from Dr. B R Ambedkar Central Library, Jawaharlal Nehru University, New Delhi	43
• Shiva Kanaujia Sukula, Rishabh Kumar Jain and Shipra Awasthi	
7. Library User Engagement Strategies	53
• Suman Nara	
8. A Survey on Adoption of Digital Technologies and Knowledge Discovery Tools to Measure in Enhancing Library Services	57
• Upasana Yadav	
9. Digitization of Libraries - Challenges and Opportunities	65
• P. V. Radha Lakshmi	
10. A Comparative Study of Satisfaction of Patrons of Web-enabled Information Services of Central and Deemed University Libraries of Delhi and NCR.	69
• Rajni Jindal, Javed Khan and Projes Roy	

Other Section

- Global Initiatives in Library and Information Science
- Book Alerts



National Brain Research Centre Digital Library and its Services

***Shalini Varshney and **D.D. Lal**

**Technical Assistant, DeLCON Consortium, National Brain Research Centre, Manesar, Gurgaon*

***Head of the NBRC Library & DeLCON Co-ordinator, National Brain Research Centre, Manesar, Gurgaon, Haryana
ddlal@nbc.ac.in; ddlal.delcon@nic.in*

1.0 INTRODUCTION

1.1 National Brain Research Centre (NBRC)

The National Brain Research Centre is a specialized deemed to be university dedicated to research in the frontier areas of neuroscience and brain function in health and disease. Scientists and students of NBRC come from diverse academic backgrounds and use multidisciplinary approaches to understand the complex processes that form the basis of brain mechanisms. Located over a sprawling campus in the foothills of the Aravali range in Manesar, Haryana, NBRC is an autonomous institute of Department of Biotechnology, Government of India.

1.2 NBRC Digital Library

NBRC library and information services play a vital role in supporting research, teaching and learning activities and provide the main source for scientists, researchers, research associates, students and visitors. It is an automated open access library system, which is kept open all-year round. It is supervised by a library committee which ensures that the collections are kept up to date and new books requested by individual scientists are procured as soon as possible.

The library is meant to help scientific research, consultancy and to keep students and faculty abreast with the latest development in their field. The NBRC library is also an important source for students to access textbooks and other information regarding their curriculum as well as for their self-development.

NBRC Library, which is one of the best support services of National Brain Research Centre.

The NBRC Library with a big hall, half for reading purpose where big two table and chairs are arranged and some small table and chair are arranged which are very much useful for the laptop users. The hall is full of lights and centralized air conditions and few systems are also provided in this hall which makes the students to spend more time in the library. The Ventilation facility is very good. The students can view natural environment of the Aravali hills outside the windows which relax their soul and mind while reading. The library is under Electronic Camera Surveillance.

The NBRC library is well equipped with modern facilities and resources in the form of CD-ROM, on-line databases, e-journals, e-books, audio-video cassettes, books, journals, project reports etc. NBRC library has over 4000+ documents comprising of books, theses, journals, videos etc. in the field of Life science, Biotechnology, Bioinformatics, Neuroscience, Medicine, Psychology, and Physiology. Operations of the

ABSTRACT

This study examines the National Brain Research Centre Digital Library Services i.e. NBRC library collection, library hours, infrastructures, Library rules and regulations, ILL services, DeLCON Consortium etc. This study also highlights the present status of user's retention regarding service quality in NBRC library and to know measure the satisfaction level of current user's in the library.

Keywords: NBRC Library, Services, Users Study, DeLCON Consortium.

library are computerized using the LSEASE library management software for developing the NBRC Library. NBRC library subscribed approx. 7 regular newspapers.

The NBRC Library is also serving as a headquarters of the DeLCON Consortium, one of the most successful Library Consortium in India, which provide services of 1172+ online journals with 21 International Publishers to 35 Member Institutions in all over India.

2.0 OBJECTIVE OF THE STUDY

The objective of the present study are:

- To know the NBRC Digital Library Services
- To identify the infrastructure facilities provided by the library.
- Work as a Nodal Centre of DeLCON Consortium.
- To evaluate the NBRC Digital Library Services during the year 2019 & 2020.

3.0 REVIEW OF LITERATURE

A study has been conducted on NBRC Digital Library Services. This study has focused on the NBRC Digital Library Services & Evaluation of NBRC Digital Library Services during the two years 2019 & 2020.

4.0 METHODOLOGY

Questionnaires and personal experience methods were used for data collection. There were approximately 250 users available in National Brain Research Centre. A total of 80 questionnaires were distributed and 70 filled responses in questionnaire were obtained from the students, faculties and staff. There are 27 male respondents and 43 female respondents, from which 10 males and 19 females in Ph.D. 02 male and 15 female respondents are in M.Sc. 15 male respondents and 09 female respondents are in staff and faculties.

5.0 DATA ANALYSIS

Data collected from the questionnaires and personal experience were analysed using MS Excel with frequency counts and simple percentage.

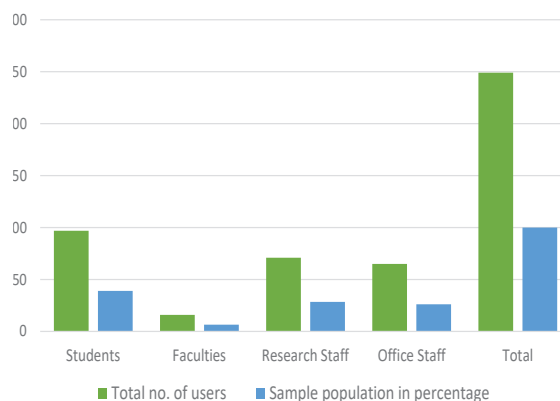
5.1 NBRC Digital Library Users

There are the users communities and their ranges are given below:

Table-1. No. of Users in NBRC

S.No.	Users	Total no. of users	Sample population in percentage
1	Students	97	38.96
2	Faculties	16	6.43
3	Research Staff	71	28.51
4	Office Staff	65	26.10
	Total	249	100

No. of Users in NBRC



5.2 Facilities for the Students

The following facilities are provided for the students to complete their course successfully.

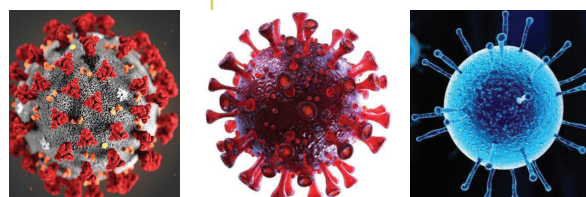
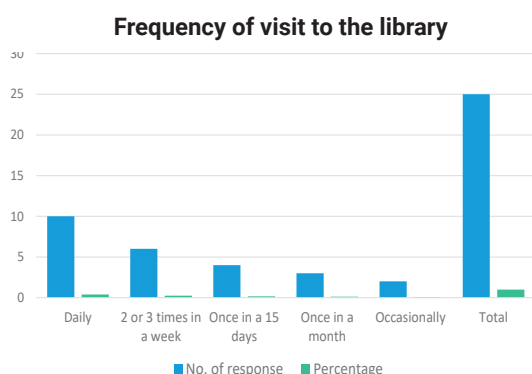
1. **Hostel Facility:** To reside the students during their course period separate hostels for Girls and Boys are available in the campus which is administered by a Chief Warden and are subject to rules and regulations and students are expected to adhere to them strictly.
2. **Canteen:** A canteen and a mess facility is available in the campus which provides them fresh and healthy food with low cost.
3. **Bus Facility:** Shuttle Bus Facility is also available to move the students from NBRC Campus to IF-FCO Chock Metro Station Gurgaon & Vis-Versa and twice in week to Gurgaon various Malls from NBRC and Vis-Versa.
4. **Digital Library:** Students can use centralized facility of Library as well as they will access all the subscribed contents and resources such as ebooks, e-journals, e-magazines, protocols, etc through online in the NBRC whole campus. Library with a rich of books, e-books, journals, e-journals, magazines, newspapers, computing facility with internet access and Xerox & scanning machine facilities are available.
5. **Health Care Facility:** As health is wealth there is a health insurance policy for all the students of NBRC is available. A Chief Medical Officer (CMO) and a Nurse is also available in the Campus for caring the students and staffs.

5.3 Visitors in the Nbrc Library

The frequencies of the visit to the library are one index to judge the utilization of the library resources. If the users frequently visit the library, it can be said that they are using the library more in comparison to those users who rarely visit the library. Table-2 shows that 40% of the users visit the library 'almost daily', while 12% visit it once in a month. 24% users visit the library two to three times in a week, followed by 16% visits it once in 15 days. Only a small percentage of users, that is, 8% visit occasionally. Thus, it clearly shows that 40% of the users are regular visitors of the library, while the remaining users are not regular visitors of the library.

Table-2. Frequency of visit to the library

S.No.	Frequency	No. of response	Percentage
1	Daily	10	40%
2	2 or 3 times in a week	6	24%
3	Once in a 15 days	4	16%
4	Once in a month	3	12%
5	Occasionally	2	8%
	Total	25	100%



Picture : NBRC Library Building

6.0 NBRC DIGITAL LIBRARY SERVICES

6.1 Library Hours

The Library remains open throughout the year except Saturday, Sunday and Government holidays. The book stack area is open from 9:00 AM to 5:30 PM (Week-days). Reading area remains open 24x7 hours.

6.2 Physical Infrastructure & Layout

The NBRC Library was setup in 2002 in the IB-1 building (DIC department) of the Institute. It moved to the IB-3 building of the Institute in 2017. The Library is spread

over 2 floors with the total covered area of 66.64 sq. mts. (approx.), Reading room covered area of 33.32 sq. mts. And carpet area for stack room is 48.09 sq. mts. and is centrally air-conditioned.



Picture : NBRC Library Building

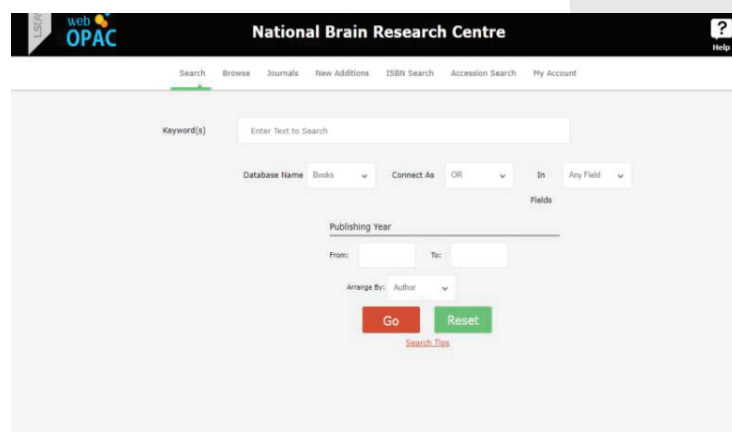
6.3 Library Reading Room/Hall

A Separate reading hall facilities are open and available for the users round the clock (24x7) which is just a portion of the NBRC library and in holidays. It has adequate lights, AC, ventilation, sitting arrangements. The reading hall is also under Electronic Camera Surveillance.

6.4 OPAC Facility

The NBRC Library has a collection related to Neuroscience. The library's catalogue of books and other reading material can be accessed through library intranet and Internet (OPAC). The library catalogue is searched by author, title, publisher, keyword and year of publication.

OPAC Link: <http://172.31.14.105:8380/opac/>



7.0 COLLECTION

The NBRC Digital Library has a strong collections pertaining to Neuroscience and Biotechnology. There is some Hindi books collection also. NBRC digital library collections are mentioned below:

Table-3. Collection in the NBRC Digital Library

S. No.	Collection	Code
1	Atlas/Maps/Charts	A
2	Books	B
3	CD/DVD	CD
4	Gifted Books	G
5	Magazines	M
6	Manuals	MN
7	Reference Books	RB
8	Reprints	RP
9	Serial Publications	S
10	Thesis/Dissertation	TH

8.0 LIBRARY MEMBERSHIP AND CIRCULATION: POLICIES AND GUIDELINES

All students, faculties, Research scholars, Staffs of the Institute are entitled to become a member of the Library. The Library currently registered approximately 250 members. Number of books to be borrowed with a specific loan period, which has been given below:

8.1 Borrowing Rules

The readers should check the books thoroughly for missing pages, chapters or any pen-pencil marks etc. while getting them issued.

No book in damaged condition will be accepted from the users on return. Damaged books will have to be replaced with new books by the borrower.

GENERAL RULES

- Library books are to be used with utmost care and to be returned without any damage.
- All books and journals must be returned on before the due date and are required to be presented physically at the Counter for return.
- Books may be issued for overnight use from the library.
- Books may be returned on all working days. Absence from the institution shall not be an excuse for any delay in returning books.
- Books due on a holiday should be returned the next morning and no fine will be collected.
- Members must replace the book if lost with latest editions along with overdue charges. The cost of the book will be collected if it is not returned.
- Personal books and belongings except for return are not permitted to be brought inside the library.
- Silence is to be strictly observed in the library.
- The books are to be left on the reading table and they should not to be replaced in the shelves after reading or reference.

- Books will be lent to students only for a period of 15 days.
- Loan of reference books, projects reports, theses, dissertations, current protocols, and dictionaries is not permitted.
- Damaged books shall not be accepted and have to be replaced.
- The library accepts donations of manuscripts, books, and journals etc., which are found useful for the students.
- Usage of mobile phones is not permitted inside the library.
- Laptop computers are allowed inside the library for reference work with books.

LOSS OF LIBRARY CARD

The loss of library card should be reported to the Library staff and circulation counter of the Library. The NBRC staff will issue the duplicate library card on request of library readers. Borrowers shall be responsible for any loss or misuse of their original/duplicate card.

ISSUE & RETURN TIMINGS

Generally, books are issued or returned on weekdays from 9:00 AM to 5:30 PM at the circulation counter.

CONVENTIONS FOR ISSUES/RETURN

- General Books are issued to all eligible members as per their entitlements.
- Reference books and bound volumes are issued to members with special permission.
- Theses, dissertation, CDs are not lent out of the Library.

OVERDUE CHARGES

Items that are returned after the due date are considered overdue. The overdue Charges are calculated as given below :

Category of member	Overdue Charges
Students	2 Rs for 02 Days; 5 Rs. for next 05 days; 10 Rs. after these 5 days
Faculties	No fine policy
Research Staff	2 Rs for 02 Days; 5 Rs. for next 05 days; 10 Rs. after these 5 days
Office Staff	2 Rs for 02 Days; 5 Rs. for next 05 days; 10 Rs. after these 5 days
Magazines	M
Manuals	MN
Reference Books	RB
Reprints	RP
Serial Publications	S
Thesis/Dissertation	TH

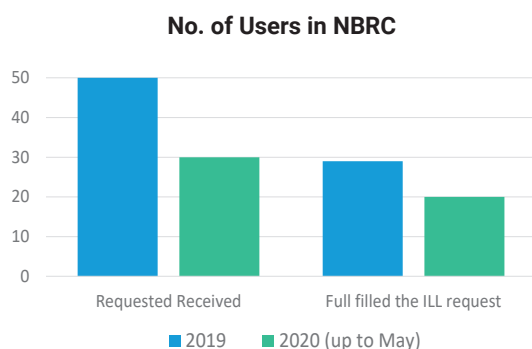
INTER LIBRARY LOAN SERVICE

The library arranges articles from other libraries in India on Inter-Library Loan (ILL) based on the request of members. NBRC Library is also the member of DEL-

NET. We have analysis and see that we have provided approx. 50 ILL requests to the users in the year.

Table-6: ILL request in NBRC during the year 2019 & 2020

Year	Requested Received	Full filled the ILL request
2019	50	29
2020 (up to May)	30	20

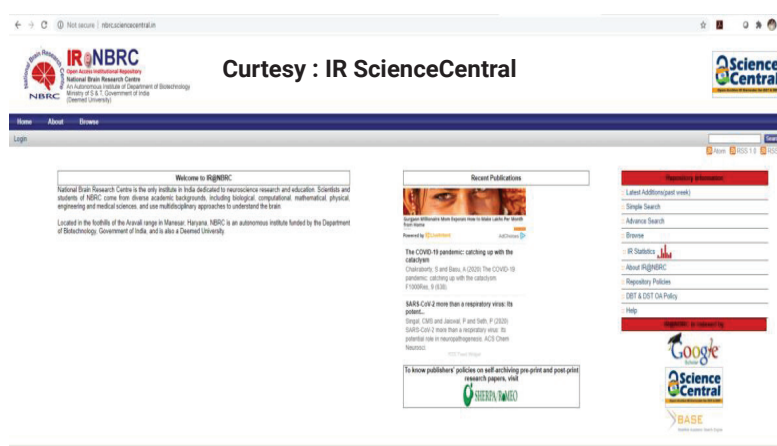


access to journals by the Research and Academic community in the country. National Brain Research Centre is as Nodal Centre for DeLCON Consortium since 2009 when the project was started. Dr. D.D. Lal is a DeLCON Coordinator since the establishment year 2009.

The access to all major e-resources was given to 10 DBT Institutions in the beginning of the year 2009. It was extended to 17 more DBT Institutions in the 2nd phase in the year 2010 and another 7 members were added in the 3rd phase the year 2011. The DeLCON provides current as well as archival access to more than 917 core and peer-reviewed journals in different disciplines from 20 publishers and some of aggregators and one bibliographic database (SCOPUS). The faculties, scientists, research scholars, students and project assistants of institutions covered under DeLCON are the primary beneficiaries. DBT sponsors the entire expenses for DBT organizations for providing e-journals access through DeLCON. At present total member are 35. A total of 1000+ selective journals are covered under DeLCON. These all are accessible by the DeLCON Consortium members through the DeLCON portal (<http://delcon.gov.in>)

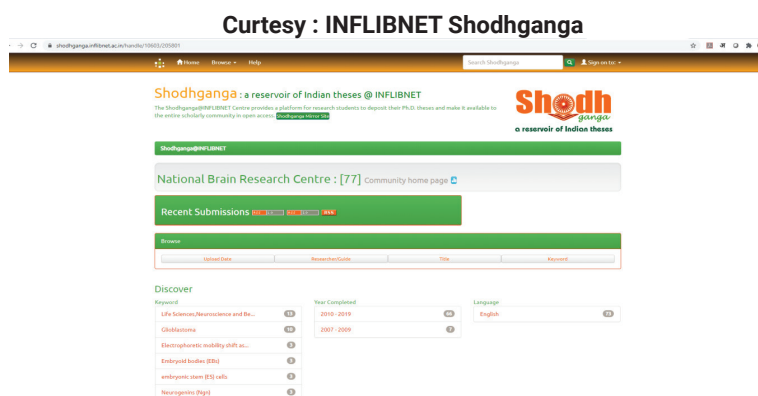
9.0 NBRC INSTITUTIONAL REPOSITORY

NBRC Digital Library has its institute repository at IR@NBRC. This repository collects, preserves and disseminates in digital format the research output resulting from research projects, which are fully or partially funded by DBT or were performed using infrastructure built with the support of DBT. This also includes review articles, both invited and author initiated, for those who received funding from DBT during that period.



9.1 Thesis Repository At Shodhganga

Shodhganga is a digital repository of Indian Electronic Theses and Dissertations set-up by the INFLIBNET Centre. NBRC has signed a memorandum of understanding for Shodhganga with INFLIBNET in the year 2018. The NBRC have uploaded 77 Theses for Ph.D. at shodhganga till June 2020.

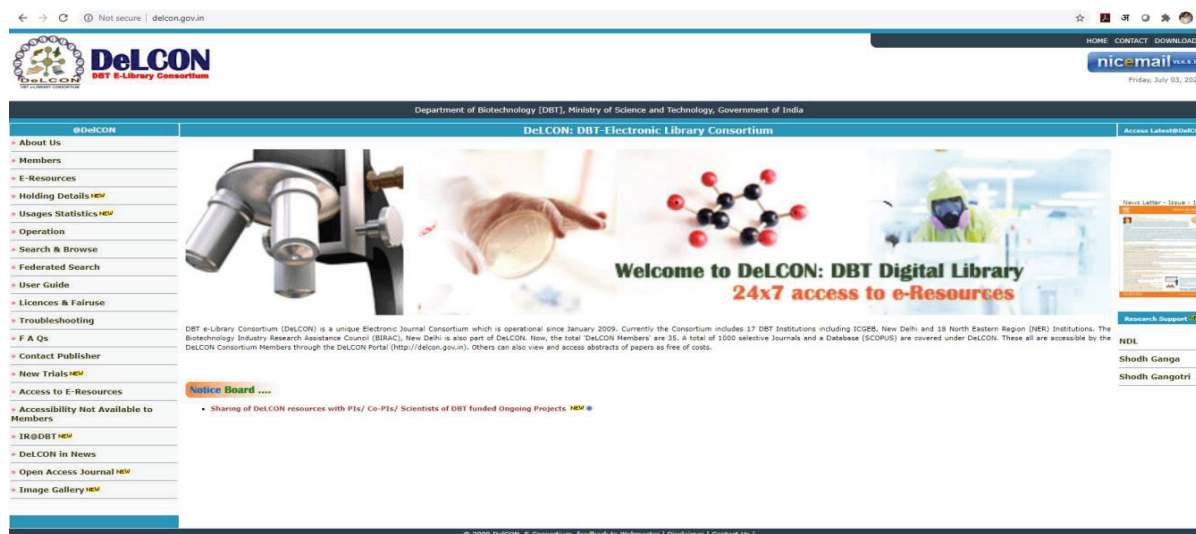


9.2 NBRC WORKS AS A NODAL CENTRE FOR DELCON CONSORTIUM

DBT e-Library Consortium (DeLCON) is a unique journal consortium which is operational since January 2009. The DeLCON Consortium has been set up by the DBT to promote the use of electronic database and full text

In terms of number of users, the DBT's Electronic Library Consortium (DeLCON) is the largest Consortium in India constituted in the area of biotechnology and life sciences with a vision and plan to reach out to all DBT institutions, research institutions, select universities and their colleges.

Curtesy : Screenshot of DeLCON Consortium Main Page



9.3 MAJOR ACHIEVEMENT OF NBRC THROUGH THE DELCON CONSORTIUM

Identification of NBRC as a 'Nodal Centre & Headquarter' for the DeLCON Consortium.

ILL services and resource sharing has been increased after initiation of DeLCON Consortium.

Digital collections and back volume collections have been increased.

Due to DeLCON e-resources the NBRC faculties and scientists have increase their research qualities and paper of publications. The citation index and h-index have been enhanced for the faculties and scientists.

Library budgets have been saved due to the DeLCON Consortium.

Collaboration of NBRC has been increased with various National and International Organisations.

10.0 CONCLUSION:

Based on the analyzed data we can say that NBRC Digital Library fulfill the requirements of the NBRC users (Students, Faculty, Researcher and staff). All users like Faculty, Students, Researcher and staffs are satisfying with NBRC library services. Library staff always cooperate with their users and fulfill the all requirements of users. NBRC is the headquarter of DeLCON Consortium and all users are also benefited with this consortium.

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