LIBRARY AUTOMATION IN CHITWAN

A thesis submitted to the

Central Department of Library and Information Science
in Partial Fulfillment of the Requirements for the

Master's Degree in Library and Information Science

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LETTER OF RECOMMENDATION

This is to certify that Mr. Shiva Prasad Gautam has prepared this thesis entitled "LIBRARY AUTOMATION IN CHITWAN" under my supervision and guidance. I recommend this thesis for final approval and acceptance.

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LETTER OF ACCEPTANCE

The thesis entitled "LIBRARY AUTOMATION IN CHITWAN" prepared and submitted by Mr. Shiva Prasad Gautam in partial fulfillment of the requirements for the Master's Degree in Library and Information Science is hereby accepted and approved.

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or No.

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the course of completing this thesis, I've received support from my teachers, seniors and most inevitably my parents. Moreover, the thesis wouldn't get said shape until and unless I got assisted from many helping hands.

First of all, I am very grateful to my thesis supervisor Mr. Bishnu Prasad Aryal for excouraging this work and watching through its various stages and Head of the Department Mr. Bhim Dhoj Shrestha for allowing me to pursue my research in this topic. Similarly, I am thankful to all the teachers of the department. Their valuable suggestions and inspiration are notable. I would like to recognize all the staff of Library and Information Science Department and the librarian of Army Command and staff college T/Lt Rajendra Neupane for their kind co-operation and necessary help.

Moreover, my humble thanks go to entire respondents of my questionnaire, librarians of the libraries under study and friends for their valuable help during this work. I am also grateful to my parents who always encouraged me for higher education and thanks to my family members. Finally, I would like to apologize for any loopholes if I made knowingly and unknowingly during this research.

Thank you

Shiva Prasad Gautam

ABSTRACT

Time "LIBRARY AUTOMATION IN CHITWAN" shows the status of the libraries of Chitwan. The main objectives of the research are, to status and the infrastructure availability, to identify the status of automation of the traries of Chitwan. For this purpose, purposively 6 libraries of Chitwan chosen. The research is based on primary data using questionnaire. Data has been analyzed and presented with the tables and pie charts. Different 22 and international literatures have been reviewed during study.

teen found that most of the libraries have automated the library to save the where as some of them did it to reduce the space problem and to provide the remote service, most of the libraries have been using Libra software for automation the library where as few libraries use Midas & Lib info for automation of the nowever one library has used WINISIS, most of libraries do not have ent infrastructure for automation which have been facing financial, technical = a managerial problems, all the libraries have automated the cataloguing area of the there where as only 2 libraries have used automation in circulation as well, but no begges have used it for acquisitions. Only one library has one skilled man power where as other libraries is run by semi skilled ad no skilled manpower. All libraries strong aspects of the library automation are user friendliness, time saving easy to use however they claimed the automation software lack ILS facilities and some libraries claimed the software is expansive and the software is difficult to Landle Most of the libraries suggested improving the facilities of the software by adding ILS features like acquisition, cataloguing, circulation, serial management and also provide the users service and many more

So it is recommended that for full fledge automation of the libraries the infrastructures must be developed as well as skilled man power and the financial and managerial support must be increased. As well as ILs like Koha can meet the modern demand of the library users.

dicated to my parent

×

PREFACE

The study has been conducted for the partial fulfillment of the requirements for the states of Master in Library and Information Science (MLISc). This thesis presents an action of the status of automation of the libraries of Chitwan. Moreover the motion faced by the librarians for implementation of the software. To reach the action of users, quantitative and descriptive research designs have been employed. Data collection and data analysis procedures are the other methods used the research analysis.

The first chapter of this research deals with the background of the study which meludes objectives, statement of problem and organization of the study, as well as the moduction.

Review of literature presenting the relevant studies in the field of Library automation has been presented in the second chapter.

The third chapter is about the focus of the study with the details of the Library automation and the college libraries of chitwan.

Similarly the fourth chapter is about Research Methodology which encompasses research design, population, sampling procedure, data collection and data analysis procedures, etc.

The fifth chapter deals with the detail analysis and presentation of this study.

The sixth or last chapter deals the summary of the findings, conclusion and recommendations for the future improvement of the college libraries.

Shiva Prasad Gautam

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LIST OF ACRONYMS

5 Asymmetric Digital Subscriber Line CAN Computer Association Nepal Common Communication Format Computerized Documentation System/ Integrated Set for Information System ED-ROM Compact Disk Read Only Memory Digital Library E-books Electronic Books E-sesources Electronic Resources EFL. Electronic Information for Libraries 5-lournals Electronic Journals MKEN! Health Science Bibliography of Nepal ES Integrated Library Software Information Communication Technology N.S EFL Electronic Information for Libraries FOSS Free & Open Source Software FSF Free Software Foundation ET. Information Communication Technology ENASP International Network for the Availability of Scientific Publication MARC Machine Readable Catalogue OA. Open Access-OPAC Online Public Access Catalogue. 055 Open Source software PERI Programme for Enhancement of Research Information TCP/IP Transmission Control Protocol /Internet Protocol TU Tribhuvan University THEL Tribhuvan University Central Library

WWW

World Wide Web

Chapter-I INTRODUCTION

... Sure and of the study

Extomation is the application of ICTs in library housekeeping operations and serials control. Integrated Library System actions are actionated library system which shares a common database for all the action of library housekeeping operations i.e. acquisition, cataloging, actual serials control. (Pradhan 2010)

automation software, integrating all the activities and routines of the assential software for the libraries and is referred to as Integrated Library Package (ILAP). An ILAP means an enterprise resource planning system for the contract items owned, orders made, bills paid, and patrons who have the items. In other words it is one where all the library activities such as cataloguing, circulation, serials, and the Online Public Access Catalogue are automated. There are many ILAP available in the market that meets the ell as budgets. However, with the open source software movement catching then source library automation package (LAP) are also available, which are with any commercial LAP. To name a few: Koha, Evergreen, OPAL, DopenBook, OpenBiblio. Among these Koha is the first open source library automation software and is widely used (Anuradha, 2009).

The application of Information Communication Technology (ICT) to almost all property of life is no longer a new phenomenon. Shiloba (2005) stated that for libraries are received skills and tools in handling digital information. In Nepal, libraries started action work with the introduction of CDS/ISIS software developed by ESCO during the year 1990s. According to Agha (1986) library automation has been a constraint since the mid 1970s because of the spreading knowledge of the new state and constraints facing library automation. The challenges and / or constraints include, among others: erratic power

To assign a librarians to execute the project, absence of maintenance of ICT infrastructure, poor funding, and poor ICT skills among the infrastructure, poor funding, and poor ICT skills among the infrastructure, poor funding, and poor ICT skills among the infrastructure, poor funding, and poor ICT skills among the infrastructure, poor funding, and poor ICT skills among the infrastructure, poor funding, and poor ICT skills among the infrastructure, poor funding, and poor ICT skills among the infrastructure, poor funding, and poor ICT skills among the infrastructure, poor funding, and poor ICT skills among the sufference of the software (OSS) in the sector of System (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), librarians are also implementing ILS in their library. Steen (ILS), libra

But when library automation started, the cost of commercial high and freeware and open sources software for Integrated Library attailable. The only one software available as a freeware was CDS/ISIS to WINISIS (CDS/ISIS for windows). It is due to the free availability of many libraries in Nepal as well as in this region adopted it without towever. CDS/ISIS was not prepared for integrated library system. It was the fieldly for automated cataloguing/bibliographic database of a library.

Ibraries. Today, there is greater responsibility on the part of the library centers to provide the latest and timely information to their users to proving the quality of education. This cannot be achieved without having an and information system at its command. Due to availability of open spread Library System (ILS), any library can implement the ILS with a very

priorities. Little consideration was given to networking, and resource with the development of Internet, resource sharing has become possible.

is he Siccessful Library Automation

automation project there is the need for adequate finance, an experienced consultant, and dedicated members are the real of library staff.

The finance

The experience were gracious enough to release funds for the automation project and the experiment of software and hardware and training of the staff on the experiment. As soon as it was agreed that the library should go ahead with the experiment provisions were made for all that were required.

saar sower supply

This is important was connected to a standby generating set. This is important constant and consistent power supply, the project will not be realized and a scompleted it will not be properly operational. The generating set which also some power supply goes off. As a result the library does not have problem with

III ISTRUCTURE

The infrastructure in terms of computer hardware needs to be in place, i.e. having the infrastructure in terms of computer hardware needs to be in place, i.e. having the infrastructure and in the various routine activities. This also involves the networking of the infrastructure are also very important in an automated environment in order to the effective cooling of the hardware. All offices in the library have split unit air actioner except circulation desk.

Experienced consultant

Identifying an experienced consultant on library automation is very important.

The reason being that where there are problems with the system such can easily be contacted so that the library does not start what it will not be able to continue.

Dedicated members of staff

For any automation project to be successful there is the need for all members of sent to be dedicated and committed to the project. This can be achieved by regular

story.

must be computer literate

marriers:

start training the staff on computer appreciation before embarking on helps to make the training very easy.

be the few possible barriers of library automation:

- Fear of adverse impact on employment
- Apprehension that the technology could be too expensive
- The library staff has to undergo extensive training.
- Lack of support from the management, may be owing to budget constraints
- Fifth reason could be retrospective conversion of data.

minimum investment on both hardware and software. Once a database with details is developed, the same data can be used for circulation activities.

details is developed, the same data can be used for circulation activities.

details of software becomes crucial because CDS/ISIS can efficiently handle cataloguing system. Following criteria might help the librarians to select the for other housekeeping operations:

- who are the developers, whether an institution, or reputed company or few individuals. The preference is for institution and second preference is for the reputed company. One has to be skeptical about the software developed by individuals as there will be no continuity
- How many times the software has been revised since the time of its first launch.
- How many parameters are available for each module. More the parameters
 better will be the flexibility and needs no or minimum customization.

- software has facility to import bibliographic data available in
- g and guidance after installation
- o server excitable on major operating systems.
- Note that it is web inter faceable
- series a can be interfaced with the e-mail system of the campus network.
- o retrest t has taken care of Y2K compliant
- mstallations it has got in the country, since when and major
- election can offer OPAC and different rights to different logins

Surement of Problem

Library science. Manual libraries are failing to secure of five laws of the library science. Manual libraries not only hamper the day. Library automation improves the quality of the library services and secure confusion improves the quality of the library services and the day of the library services. Automation of the library services. Library automation is needed to provide the services to the users. Few libraries in Chitwan have started the services, there are lots of barriers like infrastructures and skilled manpower.

injective of the Study

.cert injective-

The general objective of this research is to determine the current status of Library accountation software used in Campus libraries of Chitwan.

Preside Objectives-

- to determine status and the infrastructure availability of the campus libraries of Chitwan.
- to identify the status of automation of the libraries
- to find out the problems and the barriers of the automation

of the study

imited to the Campus libraries of Chitwan. Study is only focused on the libraries of Chitwan. Even though there is large number of libraries in six libraries only have used automation software. The focused libraries for as follows:

- Birendra Multiple Campus
- Septagandaki Multiple Campus
- 3 Baikumari Multiple Campus
- Sanid Smriti Multiple Campus
- Elitwan Medical College
- College of Medical Sciences

senificance of the study

help to know about the current status of automation of libraries of Chitwan. reveal the picture of features and difficulties of library automation. Similarly the study helps to be acquainted with the benefits and importance of library in the modern era. The students, teachers and the researchers will be benefited to present study.

Definition of the terms/ glossaries.

Live mation

the image structure of a recipient or as any stimulus that reduces uncertainty.

Peranase

store is simply a store of information appropriately cross-referenced and capable of merrogated and manipulated. For example, online databases such as Medline, and HSBN (Health Science Bibliography of Nepal).

C-0234

mail, commonly called e-mail or email, is a method of exchanging digital messes from an author to one or more recipients. Modern email operates across the or other computer networks. Some early email systems required that the author

both be online at the same time, in common with instant messaging.

is a global system of interconnecting computer networks that use the

Interpret Protocol Suite (TCP/IP) to serve billions of users worldwide. It is a

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Database

database is a database accessible from a network, including from the Internet.

is a computer file or set of files which is designed to be transferred from a individual user. Downloads can take a number of forms, ranging from single distributed by artists as free samples to their loyal fans to entire trade journals for electronic distribution. Many people utilize downloads on a regular basis, is a thriving trade in providing hubs where people can access a wide variety of

Engine

search engine is designed to search for information on the World Wide Web and servers. The search results are generally presented in a list of results and are often information may consist of web pages, images, information and other of files. Some search engines also mine data available in databases or open ies. Unlike web directories, which are maintained by human editors, search operate algorithmically or are a mixture of algorithmic and human input.

Automation

automation is the application of ICTs in library housekeeping operations such as isition, cataloging, circulation and serials control. Integrated Library System (ILS) is atomated library system which shares a common database for all the functional

bousekeeping operations i.e. acquisition, cataloging, circulation and

The represent numerical data, are read by a bar code reader and interpreted via cardware decoders. In libraries, barcodes are affixed to both books and collection control.

. ACHINETE

ete list in printed or electronic format of the stock held in a particular collection, espoup of libraries, recording, describing and indexing the resources available.

Miningraphic Database

The latestated computer or printed source of citations of journal articles and other reports in the latestate. Bibliographic citations typically include author, title, source, abstract, and / the latest information (including full text in some cases).

Organization of the study

• That the study will be easy to understand.

study consists of six chapters.

chapter contains introduction, statement of the problem, objective and limitation see study as well as significance and the organization of the study part, 2nd chapter is seed to review of the literature related to this study, 3rd chapter denotes the focus of the chapter contains methodology part, 5th chapter presents analysis and secondarion of data in two parts, and last 6th chapter represents summary, findings and secondarion of this study. Each chapter contains reference.

n library.Vij: Delhi, 1986.

Enhancing Full text Search Capability in Library

Package: A Case Study with Koha and Greenstone Digital

Manohar:Delhi,2009

Koha ILS Healthnet Nepal: Kathmandu, 2011

The series from the top of the world: Nepal case study. Geneva: ITU.

Chapter-II REVIEW OF LITERATURE

e broad array of literature on organizations, technology, and gas well as various related subareas. It provides the reader with a solution of reference regarding the history and the role of technology in the littlet, one acquires a strong sense of the variety of technology, and also of technology, and also of technology is fundamental necessity.

- = 10g review of literature, different kinds of written documents namely books, see = 10 seeses, reports, brochures, articles were consulted related to research.

Library automation can be of two types: stand-alone system and system. Stand-alone system is basically meant to do only one specific function such as cataloguing (i.e. creating the database of bibliographic records) megrated system can be used in the automation of different functions of library as acquisition, cataloguing, circulation, etc.

Adbul Rashid (1996) in his article library automation: an overview traces the search development in the area of library automation library, library management information retrieval systems, OPAC, CD ROM and networks. The study also light on the advantages of an integrated system.

We find many public/community libraries registered in Nepal; however, most of exist only in name. Moreover, those which are functional are either poorly and/or do not cater to the needs of a modern society. In fact, there is not a single evident public library in the country that caters the need of various sections of the ety. Apart from different public and reference libraries which were established earlier, excently, schools, colleges, universities are also establishing their own academic libraries containing different text-books, reference books, and subscribed journals. New public becaries are being opened in the initiation of local people and assistance of NGOs. There are more than 600 public libraries in Nepal. There are many public/community libraries

fact, there is not a single modern public library in the country that caters the need of whous sections of the society" (CDNLAO, 2008).

Though the latest technology has already penetrated the communication sector and library field, Nepal has not been able to take full advantages of it due to lack of sufficient trained manpower and technical know-how. The history of digitization in Nepal not so old. German Research Council under Nepal German Manuscript Conservation Project initiated the microfilming step only in around 2030 B.S. This project opened a arena of digitization in Nepal. Most of the manuscripts, rare books and documents Department of Archaeology have been microfilmed (Bhandari, 2008).

Development of Koha, an open source ILS, began in 1999, funded by a group of **Ebraries** in rural New Zealand that found proprietary software expensive and lacking in **excel**ed features (Breeding, 2002; Proffitt, 2002). According to Blake (2000), Koha started **out** as a "rush job" to replace a system that wasn't Y2K compliant. The libraries licensed **the** ILS under the GNU GPL to make Koha freely available to other libraries and to avoid **pring** themselves to a particular software firm for maintenance.

Koha is written in the LAMP paradigm. Early adopters of Koha were programmers who were in some way connected with libraries. Shortly after Koha was released for public download, developers who had independently written library software contributed new features to Koha. In 2002 only two school districts in North America were using it. A lack of compliance with interoperability standards limited the usefulness of the early open source ILS.

A turnkey system for Koha with technical support became commercially available in 2006, which could relieve libraries of installation and maintenance tasks. Koha has increased its scalability and performance by optimization for indexing (Liblime, 2005). Over 250 libraries worldwide use Koha (Breeding, 2007b; Koha Developer Wiki, 2007). Frederick G. Kilgour (1970) provides the history of library computerization from its initiation in 1954 to 1970. He find the first half of the period was devoted to computerization of user oriented subject information retrieval and the second half to

- second procedures. He further reports that online system were being designed

They have evolved certain guidelines for software acquisition.. While mentioning meters which should be taken into consideration before the library software they are of the opinion that library software chosen for library automation be technically sound, user - friendly, compatible to installation and training cheaper at the time of initial installation and in its running cost. (Bhat and 1989),

Expenyoung (1997) highlight the span of library automation in the University of Library, Nigeria, and also reflects on the World Bank Funded Book Project that and in 1991 which aimed at enhancing research and teaching at the university.

\$2000) in his study entitled "automation in libraries: an overview", suggests some back points while go to select the software for their library, check points such as, are programmed, user friendliness, integration, industry standards, customer support and training, price and also suggest that choose software according to present and future seeds of the library and information centers.

Patel and Bhargava (2004) in their article "Comparative study of software available in the Indian market for library automation "highlight the present Indian scruario of library automation. They also give a brief overview of some existing Indian software packages Archives, Libman, DLMS, LIBRA, Libsys, Librarian, Maitrayee, Sanjay, Trisha, Vlysis etc. They explain in brief their framework, text retrieval and library management features, their implication in library environment, modules and sub-

Gupta (2007) in article 'Automation of library and information system 'elaborates various fields and library activities that could be automated to ensure better performance with great speed and cost effectiveness. He also highlights the per - requisites of implementing automation activities in a library by linking them with a group of local/distance library/information systems. While discussing library activities such as acquisition, indexing, circulation, maintenance, serial control etc. He has made certain

hardware and software, so that better results of automating mr. be achieved.

her article 'Library automation Challenges' discussing various service the librarians while going for library automation.

provided a progress report of automation at the Adeyemi Library in Nigeria. The historical development of both the college The various operations which the software can perform, = 1000 are discussed and solutions proposed

- _ - - Pkemwa (1999) examined the major problems associated with automation project in a developing country. He used the Moi efferce as a case study of the type of problems that a library project - come of the managerial a the infrastructure, shortage of local technical expertise, lack of information ्राचित्र करण त्रवाहरू of qualified manager .He suggested that training local personnel and the training institutions may partly solve some of the problems. He made that management and information technology skills should be and a state of training programmers may be initiated in a bid to overcome the -- - z technical expertise.

(2003) focused on the factors that went into planning for the automation of and of Dar es Salaam Library .His paper concluded that coordinating and stakeholders is essential to the outcome of the process

Ledee (2005) carried out a study to find out which library processes had Library, the Kwame Nkrumah University of Technology (KNUST) Library and the university of Cape Coast (UCC) == == concluded that university libraries in Ghana have a long way to go to fully THE PARTY OF

= 1996) emphasized on the need of three stages of library automation vizcreating and operational. In his study he discusses these aspects in the three

NO.

- On the basis of operational evaluation i.e. assessment of the manner in which the system function;
- Organizational impact i.e. identification and measurement of the benefits

 the organization; and
- User-staff assessment i.e. evaluation of attitudes of the users as well as the staff to get the new system.
- of library software packages are available, it is very important and the must be some criteria for the evaluation and selection of software
- Bhargava (2004) in their article "Comparative study of software Indian market for library automation "highlight the present Indian
 - y automation .They also give a brief overview of some existing Indian
 - Archives, Libman, DLMS. LIBRA, Libsys, Librarian, Maitrayee,

 Vlysis etc. They explain in brief their framework, text retrieval and library

 Library environment, modules and sub —

is the first open source ILS. It is used worldwide; its development steered community of libraries collaborating to achieve their technology goals.

ive feature set continues to evolve and expand to meet the needs of its includes modules of acquisition, cataloguing, circulation, serials, management, branch relationship and more. Due to its various benefits, Maharajgunj (NCM), TUTH, Bir Hospital Library, TUCL have opted library management software and adopted Koha ILS.

ion can be of two types: stand-alone system and integrated system etc. In

Library system is hardly used. The use of software is limited to the

The lack of technical manpower and adequate finance the automation of

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Chapter-III FOCUS OF THE STUDY

Library Automation

The application of Information Communication Technology (ICT) to almost all of life is no longer a new phenomenon. Shiloba (2005) stated that for libraries ians to cope with the information demands by the users they need to have the skills and tools in handling digital information. In Nepal, libraries started ion work with the introduction of CDS/ISIS software developed by Unesco wear 1990s. According to Agha (1986) library automation has been a subject ion since the mid 1970s because of the spreading knowledge of the new However, there have been challenges and constraints facing library The challenges and/or constraints include, among others: erratic power madequate professional librarians to execute the project, absence of maintenance agreement, poor ICT infrastructure, poor funding, and poor ICT skills among staff. Libraries in Nepal are at cross roads in their attempt to automate their With the development of Open Source Software in the sector of Integrated System (ILS), librarians are also implementing ILS in their library. One of the issues related to ILS is the deployment of the software. Dependence on software has been of great disadvantage. This is true especially where the library staff s inadequate in the acquisition and installation, with the library ending up with an automated system. Despite these challenges, library workers are **esuc** about and willing to use new technologies.

In spite of the challenges automation brings, its benefits outweigh its s. It is a known fact that automation of library enables easy access to library and allows staff to better serve the patrons and facilitate a multitude of tasks acquisitions, cataloguing, circulation and reference. When library is computerized are some intangible benefits that everyone can gain such as Internet searchers, database searches, etc. Stated further that the advantages of library automation

include less drudgery, easy generation of records, space saving, web-based access to catalogue, and circulation function.

The advent of the Internet and the Web literally opened up a world of opportunity for the library marketplace and the library profession, which reacted by seeking to leverage the Web to enable libraries to better deliver services to their clients. The web has made possible Web-based OPACs (On-line Public Access Catalog), interoperability of catalog through z39.50 standard.

Even though this question seems to be very fundamental it is essential to emphasize this aspect as the library automation is yet to take off in majority of the Nepali libraries. Secondly, while justifying need for library automation more than cost-effectiveness the benefits derived by the library users become the major consideration. Since library does not happen to be an economic entity such benefits need to be looked at in a different perspective. To appreciate the advantages it becomes necessary to highlight the different levels of library automation. For convenience it can be visualized at four levels:

- Library cataloging system
- Housekeeping operations and networking
- Development of CD-ROM library / products
- E-mail system and internet

The library catalogue or index to the collection forms the base for most of the library activities such as acquisition, reference, bibliographic service, inter-library loan etc. The users of library card catalogue will appreciate how fast is the retrieval, search and printing in automated environment. If the same system is available in network environment, users can have simultaneous access to the same database. From the library staff point of view the cumbersome job of printing the cards and their subsequent filing gets eliminated. Also, it conserves space and saves stationary.

The second level automation will be to use a software which can handle all the housekeeping operations of the library such as acquisition, circulation and serial control thus creating a network within the library or becoming part of the existing network of the

Networking of computers within an organization helps the users to browse the ing system from any of the workstation/terminal.

A very handy technology available for library is the CD-ROM products which can at the third level. The development of CD-ROM collection not only space but also provides multi-user access in network environment. There are self-tutorial CD-ROMS available with multi-media effect. Libraries facing high of mutilation of materials will benefit from such electronic products. Also doing empirical research can download data and directly take it to other software for analysis and making graphical presentation.

Other technology which libraries can make use of is the e-mail system. This not medices the recurring expenditure but also be effective and fast. Sending reminders ipt of journals by e-mail has proved to be very cost-effective. In addition to the starting of resources among libraries become easy. Few public domain e-mail are available and there will be no additional expenditure incurred.

Another technology which has revolutionized the information world is the mem of internet. Subscribers of internet, in addition to getting access to various domain databases and services, will also get free e-mail and fax facility. Some have started giving content pages of journals and libraries having subscription journals can also have full text of the articles. Many academic and research have given free access to their working papers.

College Libraries in Chitwan

There is large number of libraries in Chitwan district. Most of the libraries are manually. The public college libraries are the large libraries of the Chitwan Because of the lack of the finance and the technical knowhow the libraries are the major four libraries have just started automation using some. The major four libraries under study are briefly described below.

Birendra Multiple Campus

Birendra Multiple Campus was established on the 1st Baishakh, 2022 BS as Intermediate Arts College', named after late King Birendra, with the initiation clorts of academicians, social workers, guardians, donors and local institutions

Eling the need of an academic institution of higher education for the growing population of the district after Chitwan was open for settlement in 2011. The college had shard times in its infancy as it did not have its own building and premises. With a great bor pain it took its birth in Chitwan High School Building at night with 14 students and Let it was shifted to a rented house at Narayangarh. With many ups and downs on its course of growth, the college received 10 Bighas of land from HMG in 2028 and in 2032 college shifted to its own building which was inaugurated by Late Ling Birendra on 6th Marg, 2034B.S. The college then was capable enough to begin Bachelor level which materialized in 2035. From 2040, The college started I.Sc. and became the first multiple campus in Chitwan district. The college was expanding physically and and emically day by day. In this context the college took a great stride in its academic exivity and began Masters Level in Economics in 2045, B.Sc. in 2050, M.A. (Nepali) in 2053 and since then different programmers of Bachelor and Master's Levels began to be added one after another without any interruption. The Journey of this campus that began ■ 2022 has become a model journey of an academic institution of its kind. In its long course up to now it has been able to enlighten many individuals of different corners of the exion and thus illuminate the whole society with the knowledge, skills and inspiration. be hope, in the days to come, this college will not lag behind to academically lead the society imparting quality education to meet the demands of 21st century.

The campus has a separate modern library facility well equipped with computerized system having specialized software Libra. There are 40510 books of inferent subjects among them.10290 in Nepali, 4256 in economics, 2356 in Political science, 4604 in English, 2215 in History, 325 in culture, 3681 in Management, 117 in Education, 2048 in Mathematics, 1945 in Physics, 923 in Chemistry, 615 in Botany, 311 Biology, 418 in Zoology, 317 in Statistics, 298 in Geography, 1919 in Sociology, 667 Population, 26 in Philosophy, 209 in Research, 57 in Journalism, 93 in Tourism, 201 Dictionary, 505 in Religion, 25 in Computer Science, 96 in Microbiology, 23 in Environment Science, 26 in Applied Science, 37 in Medical Science, 1907 in Miscellaneous. The library has been running by semiskilled manpower. The students and

Eculties are main users of the library. This library has satisfactory infrastructures for a satisfactory infrastructures for the library.

Saptagandaki Multiple Campus

Saptagandaki Multiple Campus (SMC), established in 1988 (2045 BS), is a community campus affiliated with Tribhuwan University. It is situated at Municipality, Chitwan in central development region of Nepal. SMC came existence through collective endeavor of distinguished academicians, social workers, ical figures and general public from the community. Founded with the motto of mating quality education basically to the students coming from underprivileged marginalized groups as well as middle class backgrounds at affordable cost, SMC has both in size and in reputation into one of the leading higher educational ions of Nepal within short period of its establishment. Nurtured by dedicated and ienced lecturers and efficient working staff, the campus instills the values like ion, selflessness, dedication, love for fellowmen and above all the thirst for and knowledge into students and prepares them for the challenges of the modern itive world. SMC runs classes in different streams and disciplines from Post SLC to Master's Degree level in three different shifts from dawn to dusk. At the end, feels proud to share the fact that it has been selected as a deserving community for the Second Higher Education Project of University Grants Commission on level assessment.

Renowned social worker, late Ganja Singh Gurung, a resident of Sharadanagar, an invaluable contribution to SMC by establishing a two-storied library building in memory of his late wife Mrs. Krishna Kumari Gurung. The library has a collection books, reference books, encyclopedias and sufficient number of other necessary as well as major contemporary newspapers, magazines and journals. There are two ional sections in the library- Reference Section and Issue Section. Students can two books at a time from the Issue Section on condition that they return the books 7 days. The Reference Section can be used for consulting study materials that be taken home. This library holds about 28000 books and other documents. The has been using Libra software for automation.

3.2.3 Balkumari Multiple Campus

Balkumari College, established on 18th September 1986 (2nd Aswin 2043), is affiliated to Tribhuvan University and the college has been awarded with Quality Assurance & Accreditation (QAA) certification by Quality Assurance & Accreditation Committee of University Grants Commission Nepal on 22nd November 2009 (7th Mansir 2066). It has already been recognized as an ISO 9001 certified institution for quality management system (QMS) in July 2008.

Balkumari College is one of the leading colleges imparting education at the University level in Nepal. The college is involved in various innovative programmes apart from teaching regular University curriculum. These programmes are carefully designed to provide students a clear edge in placement or further education. The college has performed well in all disciplines, curricular, extracurricular and co-curricular activities. The library was established in 2043. The holding of the library contains about 38000 books and journals. The library has been using Libifo software for automation.

3.2.4 Sahid Smriti Multiple Campus

Shaheed Smriti Multiple Campus (SSMC) was established in 2037 B.S. in the eastern part of Chitwan district. With a history stretching back over 32 years, providing quality education within a modern educational environment and strong academic staff Shaheed Smriti Multiple campus is strongly identified with its academic excellence and homely environment. Since its inception and foundation, SSMC has assumed a pivotal role in educating marginalized and disadvantaged people of the community. It provides its students with modern educational felicities, retaining and traditional values so that they can compete in the global arena. Consequently, with the mission of developing itself a leading institution that will provide equal opportunity of quality education for all at affordable fee structure, SSMC is gradually developing itself as an outstanding centre of knowledge & academic excellence. Within an intensely competitive environment, the campus has adopted a dynamic, global, creative and communicative approach in education. Now, SSMC has been running classes in different faculties such as Management, Education and Humanities from under graduate to Masters Level. The

expus is fully devoted in producing competent and skilled professionals in the related

SSMC is recognized by university Grant commission (UGC) for its precious identically and excellent results. UGC has selected this campus for second Higher infrastructure and to enhance quality of performance.

SMC is the only community campus of this area which is developing as a unique centre idearning and research where every student can explore his/her career using full prentialities s. The college has been awarded with Quality Assurance & Accreditation (QAA) certification by Quality Assurance & Accreditation Committee of University Grants Commission Nepal on 26th June 2013 (12th Ashar 2070). This campus library in about 15000 books. Most of the books are purchased and some of the books have been gifted. The library has been using Libra software for automation.

3.2.5 Chitwan Medical College

Initiated and managed by renowned medical professionals and practitioners of the country making this Institution peculiarly only one of such kind, Chitwan Medical College (CMC) is providing a world-class medical education to future academics, medical practitioners and health-care professionals at affordable prices. CMC, as an academic and medical centre managed by highly-qualified and reputed experts and professionals, is offering various academic courses. Library with enough text and reference books and journals which helps the students to broaden and upgrade their medical centre has got enough space which can accommodate 150 students at a time with the facilities of 24 hr free internet (wired and Wi-Fi), photocopy, binding, and book repairing. It generally opens from 8:00 AM to Mid-night. The holding of library contains 6000 books. It has been using MIDAS for library automation.

3.2.6 College of Medical Sciences

The Central Library a serene and tranquil atmosphere with air conditioned Excilities. Fully equipped with reference books apart from the National and International Journals. Apart from this, the library and all the departments are connected to Internet and access the Journals published in the HINARI website which gives access to more than 17000 full text medical journals. The college library also extends services to the

local talents of medicine working in other institutions in the town to meet their requirements. The Library is kept open from 9:00 AM to 10:00 PM on all working days except on Saturday up to 9:00 AM to 2:00 PM. Beside, the Central library each department maintain departmental libraries for the use of faculty members and students. It has been using WINISIS for library automation.

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Chapter-IV

RESEARCH METHODOLOGY

4.1 Introduction

The section on data analysis repeats the research question. These statements directed the key focus of this study, which was to assess the extent of automation of the libraries of Chitwan. The following paragraphs specify methods and procedures used for collecting data and analyzing the required information.

The statistical methods of analysis are descriptive i.e. percentage, mean and tables were used to summarize the data.

4.2 The research design

Research design is a plan for the collection and analysis of data. It presents a series of guide posts to enable the researcher to progress in the right direction in order to achieve the goal. On the other hand research design is an organized approach. It is an integrated system that guides the researcher formulating, implementing and controlling the study. Useful research design can produce answer to the proposed research question. Design is the overall plan of any proposed activity. The design of research project guides how to conduct the study. A research design defines the procedures for collecting and analyzing data.

This study has tried to investigate the current status of automation of College libraries of Chitwan .Hence descriptive research design has been used. The survey instrument used for data collection is quantitative method through questionnaire and observation was also used to supplement the data the data collected through questionnaire. Primary data has been used for the analysis.

4.3 The population and the sample size

There is large number of college libraries in Chitwan district. Some of them are, Arunoday Multiple Campus, Birendra Nagar Multiple Campus, Birendra Multiple Campus, Saptagandaki Multiple Campus, Balkumari Multiple Campus, Sahid Smriti Multiple Campus, Chitwan Medical College, College of Medical Sciences, Agriculture & forestry university and so on. However the population frame for this study comprised

only the following 6 large campus libraries of Chitwan.

- Birendra Multiple Campus
- Saptagandaki Multiple Campus
- Balkumari Multiple Campus
- Sahid Smriti Multiple Campus
- Chitwan Medical College
- College of Medical Sciences

4.4 Data collection procedure

Data was collected through the questionnaire with librarians of the respective libraries. The researcher visited the respective college libraries and collected the data.

4.5 Statistical procedure

Descriptive statistics were used to analyze and present the results of the survey. Total and percentages of responses were calculated. These are displayed, as appropriate in table and graphic form.

4.6 Data processing

The analysis is based on responses received from the librarians. After questionnaire, the collected data and information have been organized in a systematic order for analysis like editing, coding, classification etc. The completed filled up questionnaires were checked to remove the possible errors and inconsistencies in the field. In this study, both descriptive and analytical methods have been used for the presentation of collected data and information.

The responses were categorized, tabulated, processed and analyzed using different methods. The data are tabulated and shown in pie diagram.

Chapter-V

ANALYSIS AND PRESENTATION

The main purpose of analyzing of the data is to change it from an unprocessed form to an understandable presentation. The analysis of data consists of organizing, tabulating and performing statistical analysis. The presentation of data is the basic organization and classification of data for analysis. After collection of data through questionnaire, analysis and presentation is done in the following section using different statistical tools.

5.1.1 Respondents Profile

Table 5.1 Respondents Profile

| S.N | Name of the library | Collection | 5 | Staff | | |
|-----|---------------------------------|------------|---------|-----------------|----------------|------|
| | | • | Skilled | Semi skilled | Non skilled | |
| 1 | Birendra Multiple Campus | 42000 | 1 | 1 | 7 | 2000 |
| 2 | Saptagandaki Multiple Campus | 28000 | 0 | 1 | 2 | 1500 |
| 3 | Balkumari Multiple Campus | 38000 | 0 | 2 | 3 | 1800 |
| 4 | Sahid Smriti Multiple Campus | 15000 | 0 | 2 | 5 | 2000 |
| 5 | College of Medical Sciences | 12000 | 0 | 2 | 4 | 1000 |
| 6 | Chitwan Medical College | 6000 | 0 | 2 | 6 | 800 |

Table 5.1.1 shows the status of the libraries in Chitwan. It is clear that the libraries do not have skilled manpower and the other physical infrastructure for the smooth running of the library.

Birendra Multiple Campus has got 42000 collections which as only one skilled manpower. It has infrastructures like 15 Computer and Internet in Library. The library has been using Libra software for automation.

Saptagandaki Multiple Campus has got 28000 collections which do not have skilled manpower, 1 semi skilled and 7 non skilled manpower. It has 15 computers in library and 2000 library users. The library has been using Libra software for automation. There are about 1500 library users.

Balkumari Multiple Campus has got 38000 collections which also does not have skilled manpower to operate library. It has 40 computers in library and 1800 library users. The library has been using Lib Info software for automation.

Shahid Smriti Multiple Campus has got 15000 collections. There is no any skilled manpower to operate library. It has 25 computers in library and 2000 library users. The library has been using Libra software for automation.

CMS has got 12000 collections which does not have skilled manpower for library operation. It does not have satisfactory infrastructure like Computer and Internet in Library. The library has been using WINISIS software for automation. It has 1000 users. Chitwan medical college library is also run by semi skilled and non skilled manpower. It has been using Midas software. There are about 800 library users. It also lacks the infrastructures.

5.1.2 Infrastructures available -

Table 5.1 Infrastructures available -

| 5 | N Name of t | he Internet | | Hardware | |
|---|---------------------------------|----------------------|------|-------------------|---------|
| 1 | D. | | Comp | Barcode reader | Printer |
| | Birendra Multipl Campus | e Broad Band | 15 | 1 | 2 |
| 2 | Saptagandaki Multiple Campus | ADSL | 7 | 1 | 1 |
| 3 | Balkumari Multiple Campus | Broad band | 40 | 1 | 2 |
| 4 | Sahid Smriti Multiple Campus | ADSL | 25 | 0 | 1 |
| | College of Medical Sciences | Broad band/ wi fi | 6 | 0 | 1 |
| | Chitwan Medical | Broad band/ wi fi | 4 | 0 | 1 |

Table 5.1.2 shows the infrastructures in libraries in Chitwan. It is clear that the libraries do not required hardware and the other physical infrastructure for the smooth running of the library.

Birendra Multiple Campus has got infrastructures like 15 Computer and broad band. Internet in Library. The library has been barcode reader and printer too.

Saptagandaki Multiple Campus has got 7 computers in library and ADSL Internet connection as well as printer and barcode reader.

Balkumari Multiple Campus has got 40 computers in library and broadband

Internet connection and 2 printers in library.

Shahid Smriti Multiple Campus has got 25 computers in library and no bar code reader however it has got printer for reprography.

CMS does not have satisfactory infrastructure like Computer and Internet in Library. The library has been using WINISIS software for automation.

Chitwan medical college library is also run by semi skilled and non skilled manpower. It has been using Midas software. It also lacks the infrastructures.

5.2. Training course to operate software

The respondents were asked whether they took training for operating the software.

Table 5.2 Training course to operate software

| Course | Frequency | Percent | |
|---------------------------|-----------|---------|--|
| Short term course | 1 | 17 | |
| One day training | 4 | 67 | |
| Reading operating manuals | 1 | 16 | |

Source: Field survey, 2013

Fig. 5.2 Training course to operate software

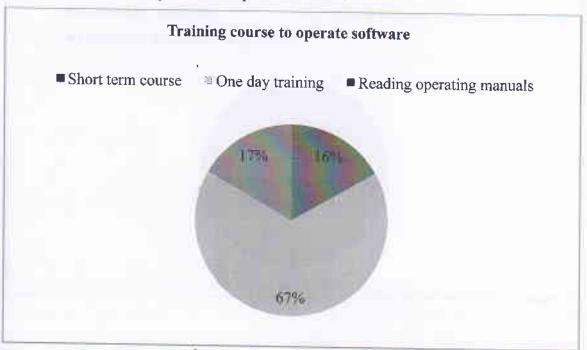


Table 5.2 shows that 67% of the library staff took one day training course, 17 % of library staff took short term course whereas same percentage of the library staff used operating manual for automation.

5.3 Plan before automation

The respondents were asked whether they panned before automation-

Table 5.3 Plan before automation

| | Frequency | Percent |
|--------------------------|-----------|---------|
| g Literature | 1 | 16 |
| Internet | 1 | 17 |
| g Local service provider | 4 | 17 |
| g Local service provider | 4 | 67 |

Source: Field survey, 2013

Fig. 5.3 Plan before automation

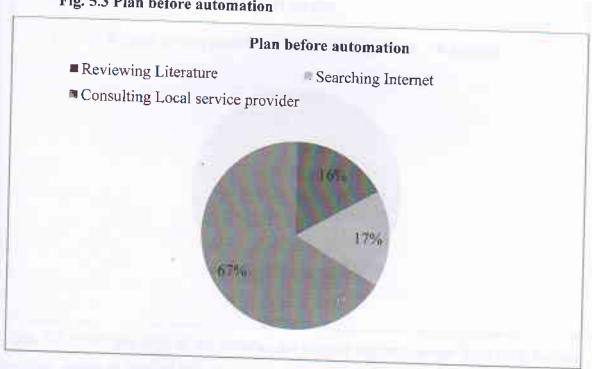


Table 5.3 shows that 67% of libraries planned automation by consulting local service provider where as 17% of the libraries did by reviewing the literatures and same % of the libraries performed it by searching the web pages.

5.4 Support service

The respondents were taking support services from -

Table 5.4 Support service

| Service | Frequency | Percent | |
|------------------------|-----------|---------|---|
| Local service provider | 3 | 50 | _ |
| Discussion groups | 1 | 17 | |
| Manual | 2 | 33 | |

Source: Field survey, 2013

Fig. 5.4 Support service

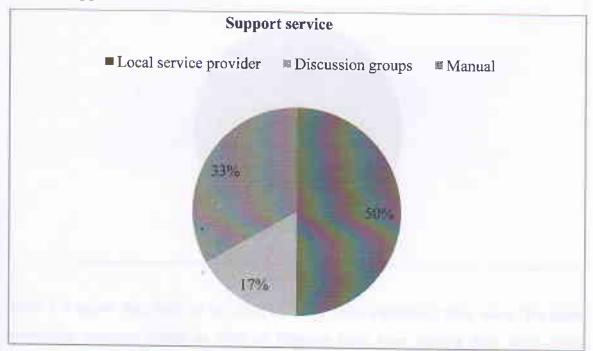


Table 5.4 shows that 50% of the libraries are seeking support service from local service provider where as 33% of the libraries are doing so by themselves with the help of the reading manuals and 17% are taking help of discussion group.

5.5 Users being supported

The users of the library are being supported by the following ways-

Table 5.5 Users being supported

| Method | Frequency | Percent |
|---------------------------|-----------|---------|
| Discussions group | 2 | Torocht |
| | 2 | 33 |
| Orientation | 3 | 50 |
| On site visit | 1 | |
| Source: Field survey, 201 | | 17 |

Source: Field survey, 2011

Fig. 5.5 Users being supported

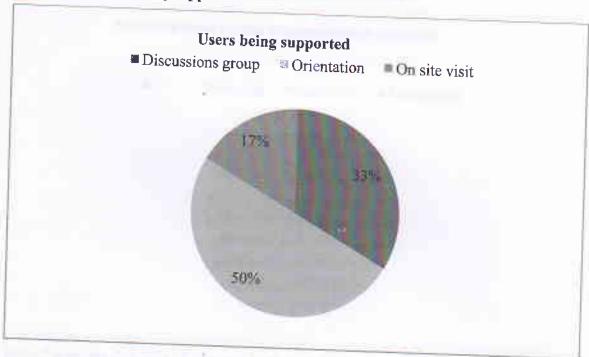


Table 5.5 shows that 50% of the libraries have been supporting their users by users orientation program where as 33% of libraries have been serving their users from discussion group and 17% of the libraries have been serving their users on site visit.

5.6 Problems faced during implementation software Main problems faced during the implementation of the software are -Table 5.6 Problems faced during implementation software

| Problem | imprementation | software |
|----------------------|----------------|----------|
| | Frequency | Percent |
| Financial | 3 | 50 |
| Technical | 2 | 22 |
| Managerial | 1 | 33 |
| ource: Field survey, | | 17 |

Fig. 5.6 Problems faced during implementation software

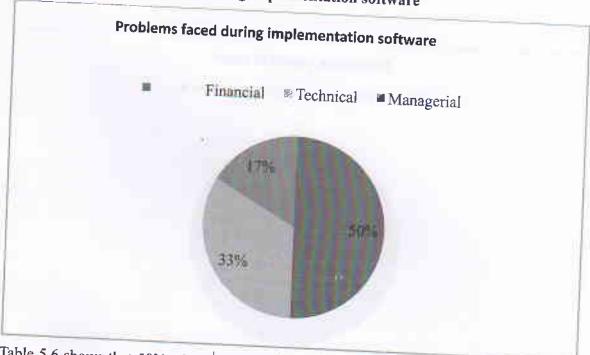


Table 5.6 shows that 50% of libraries have been facing financial problems likewise 33% of libraries have been facing technical problems and 17% of the libraries have been facing managerial problems.

5.7 Areas of library automation

The major areas of automation are -

Table 5.7 Areas of library automation

| , and the state of | |
|--------------------|----------|
| Frequency | Percent |
| 0 | * Creent |
| | 0 |
| 2 | 33 |
| 4 | |
| 2012 | .D /. |
| | |

Fig. 5.7 Areas of library automation

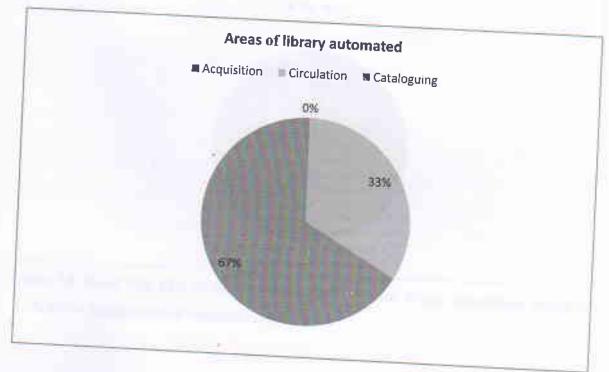


Table 5.7 shows that all the 67% of the libraries have fully automate the cataloguing area of the library however two of them have not used cataloguing facility well where as only 33% of libraries have used automation in circulation as well, but no libraries have used it for acquisitions.

5.8 Recommendation

The respondent's recommendation for automation is -

Table 5.11 Recommendation

| Answer | Frequency | Percent | |
|--------|-----------|---------|---|
| Yes | 5 | 83 | - |
| No | i | 17 | |

Source: Field survey, 2013

Fig. 5.8 Recommendation -

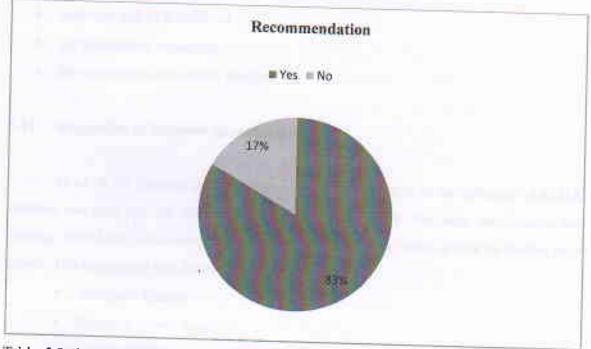


Table 5.8 shows that 83% of the libraries recommend for library automation where as 17% of the libraries do not recommend it.

5.9 Strong aspects

The strong aspects of the software mentioned by user are-

- User friendly
- OPAC facility
- Time saving
- Space saving

5.10 Weak aspects

The weak aspects of the software mentioned by user are-

- software lack ILS facilities
- the software is expansive
- the software is difficult to handle.

5.11 Suggestion to improve the automation

Most of the libraries suggested improving the facilities of the software. Add ILS features and also provide the users service and many more. Similarly the libraries are running out of the infrastructure for automation. Moreover there is lack of skilled man power. The suggestion was focused on the followings -

- Adequate finance
- Constant power supply
- Infrastructure
- Experienced consultant
- Dedicated/trained members of staff

Chapter-VI

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

6.1 Summary

Library automation is the application of ICTs in library housekeeping operations such as acquisition, cataloging, circulation and serials control. Integrated Library System (ILS) is an automated library system which shares a common database for all the functional modules of library housekeeping operations i.e. acquisition, cataloging, circulation and serials control.

Only six libraries of Chitwan were taken purposively following non probability sampling method. The selected libraries are large libraries of Chitwan. The study was mainly based on primary data including few secondary data. Questionnaires were used to collect the data for primary collection of data. The data thus collected were presented on the frequency tables and pie-charts and then analyzed to make the study more precise. The findings of the study and answers to the research questions are summarized as follows-

The study showed that main reason of library automation is- to save the time, to reduce the space problem and to provide the remote service. Major areas of automation are cataloguing and circulation. The study showed that most of the libraries do not have satisfactory infrastructure for library automation, few libraries have somewhat satisfactory infrastructure like technical manpower, hardware, power supply and so on for the automation. The barriers for library automation are apprehension that the technology could be too expensive, the library staff has to undergo extensive training, Lack of support from the management, may be owing to budget constraints and so on.

6.2 Conclusions

Based on data analysis and findings of the research study the following conclusions are drawn.

1. Main reason of library automation. It is found that main propose of the automation of the library is to save the time and reduce the space problems. More over

some of the librarians also reported the use of software to provide the OPAC service to the users however it has not been started yet.

- 2. Areas of library automated. The library software used to catalogue the documents. The main area of the automation of the library is cataloguing and circulation. Some of the libraries have planned to use the software for serial management as well. The existing software is able to provide cataloguing facility only.
- 3. Infrastructures available. Most of the libraries in Nepal have been suffering from the lack of adequate infrastructure. It is found that a few libraries have sufficient infrastructures fro automation. However, a large number of libraries have been suffering from the lack of the infrastructures.
- 4. Barriers. Main barriers of the automation of the library are adequate budget, technical knowhow, and lack of support from the management committee of the parent organization.
- 5. Satisfaction of the users. Most of the librarians believed that their users are satisfied by their services. However it can be said that because of the lack of the infrastructures and technical man power the users demand is not fulfilled by the services of the library.

6.3 Recommendations

Information technology is very much important for every field. It is not exception in academic field as well. Based on findings and conclusions following recommendations are given below:

- 1. Adequate infrastructures. The parent organizations must allocate the adequate budget to the libraries. Moreover, the librarians have to take the training to operate the software to make the full use of the features developed by those service providers.
- 2. OPAC. The libraries have to provide the online public access catalogue to the users so that the users can take the maximum advantage of the library automation. OPAC not only saves the time of the users but also helps the users to be acquainted with the holdings of the library.
- 3. Areas of the automation. As it has been found that most of the libraries have used the software to catalogue the documents, the areas of the automation is to be

expanded for maximum benefit of the users. The libraries have to make the use of the software in other aspects of the library automation like acquisition, circulation, serial management and digitization of the documents as well.

- 4. Extensive training. The librarians have to take the extensive training for the operation of the software. The basic skill of the software handling is not only sufficient for the full fledge service to the users. Besides the certain degree in library science the extra training of the library automation software is the need of the day for librarians.
- 5. Planning before Automation. The librarians have to do proper planning before automation. They have to identify the features of the software and the need of the users. Support from the parent organization. Most of the librarians do not get sufficient supports from the management of the parent organizations and the authority. The authorities must provide the adequate supports to the librarians so that the library automation can grow.
- 6. Use of ILS like KOHA. Library automation is the application of ICTs in library housekeeping operations such as acquisition, cataloging, circulation and serials control. Integrated Library System (ILS) is an automated library system which shares a common database for all the functional modules of library housekeeping operations i.e. acquisition, cataloging, circulation and serials control. Today, there is greater responsibility on the part of the library and information centers to provide the latest and timely information to their users to facilitate improving the quality of education. This cannot be achieved without having an efficient library and information system at its command. Koha like ILS can be the one of the best options for the libraries having small budget. Koha is currently maintained by a team of software providers and library technology staff from around the globe. It features all major modules expected in a library management system including provision for On-line Public Access Catalogue (OPAC), acquisitions, serials, cataloguing, circulation, budget management, membership management, fines management and other modules associated with a lending library.

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Appendix A:

QUESTIONNAIRE

This questionnaire is a part of my study for preparing a thesis for the fulfillment of the 2nd year course of Masters in Library and Information Science (MLISc). The topic of the thesis is "Library automation in Chitwan"

The purpose of the study is to explore the use library software for conduction of library function. For this reason, I would like to request you to give your valuable information to complete this research. The information received will be kept confidential and used only for research purpose.

- Respondents Profile
- a. Status of the Library
- b. Establishment of the library
- c. Total Number of staff
 - Skilled
 - Semi skilled
 - Non skilled
- d. Collection
- e. Infrastructure for automation
- f. Users

1.

- Which software is used?
 - a. MIDAS
 - b. LIBRA
 - c. Libinfo
 - d. If Any Others specify
 - What infrastructures are available in your library for automation?
 - A. Internet Connection
 - a. Broad band connection

Name of the Library

- b. Wi Fi
- c. ADSL
- B. Hardware & Software
- a. Computers
- b. Printer
- c. Barcode reader / Scanner
- Have you taken any training course to operate software?
- a. Not taken

4.

6.

- b. Short term course
- c. Reading operating manuals
- d. One day training
- . How did you plan before automation?
 - a. Literature review
- b. Internet
- How are you planning to seek support service?
- a. Consulting Local service provider
- b. Discussion groups
- c. Manual
- d. If other specify
- 7. How are customers being supported?
 - a. Discussions group
 - b. Telephone
- c. On site visit Training

What problems did you face during Automation?

| b. Technical | |
|--|----|
| c. Managerial | |
| | |
| What areas of library are automated? | |
| a. Acquisition | |
| b. Circulation | |
| c. Cataloguing | |
| d. Serial Management | |
| | |
| 0. Do you recommend library automation? | |
| a. Yes | |
| b. No | |
| What are the strong aspects of library automation? | |
| *************************************** | |
| What are the weak aspects? | |
| *************************************** | |
| If you have any suggestion about automation pleases mentio | n. |
| *************************************** | |
| | |
| | |
| | |
| 14 | |
| | |

a. Financial

Bio Data

Bio - Data



Objective:

To establish own self as a professional in respective field

Profile:

Working in different educational and social organizations

Personal Details:

Name:

Shiva Prasad Gautam

Father's Name:

Nanda Lal Gautam

DOB:

07Aug,1972

Address:

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Nationality:

Nepali

Religion:

Hindu

Sex:

Male

Marital Status:

Married

anguage Proficiency:

Nepali, English, Hindi

ducation :

Master's level in library and information Science Kirtipur Bachelor of Arts Birendra Multiple Campus, Bharatpur Intermediate of Arts Birendra Multiple Campus Bharatpur

rainings:

Diploma in computer hardware and networking

PMB Library Management Software

Digital Library automation

perience:

- 1. Two years: Library Management in IAAS Lamjung Campus
- 2. 12 years: H.A. in Lamjung Campur and Rampur Agriculture Campus
- 3. 2070 mangsir up to now Library inchrage in AFU Rampur Chitwan

ference: Bhim Dhoj Shrestha Head of Department in Library and Information Science Kirtipur