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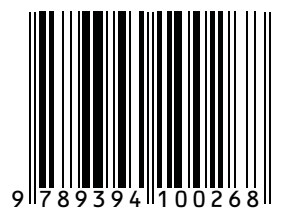
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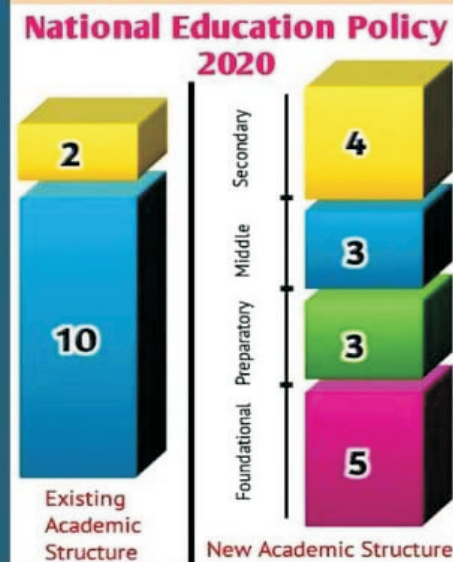
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Contemporary Social Science Researches on School Education in Indian Universities

Prof. Ashutosh Biswal
Prof. R.C. Patel
Ms. Shourya Chaturvedi

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It is our sincere thanks and acknowledgement to Professor (Dr.) Vijay Kumar Shrivastava Hon'able, Vice Chancellor and Professor Parimal H. Vyas, Former Hon'able, Vice Chancellor of the Maharaja Sayajirao University of Baroda for their kind support and continuous encouragement. We appreciate their academic and administrative support in this scholarly endeavour. We would like to render my sincere gratitude and appreciation to Professor Akhilesh Kumar Singh, Hon'able, Vice Chancellor of Professor Rajendra Singh University, Prayagraj, Uttar Pradesh and Prof. K. G. Suresh, Hon'able Vice-Chancellor of Makhn Lal Chaturvedi National University of Journalism and Communication, Bhopal for their valuable and worthy presence during the meet.

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Lastly, we are beholden by the grace and blessings of almighty for giving us strength, energy and courage to undertake this endeavor and coming out with this volume of research work.

Prof. Ashutosh Biswal

Prof. R. C. Patel

Ms. Shourya Chaturvedi

PREFACE

This book on the Researches on School Education in Indian Universities is the outcome of the SCHOLAR'S MOSAIC 2021, the first and unique National Scholars' Meet organized by Research Cell, Faculty of Education and Psychology, the Maharaja Sayajirao University of Baroda, Vadodara, Gujarat during 17-19 July 2021. This event provided an unique opportunity for the young and budding researchers to actively engage in discourse about education-related research, interdisciplinary research domains, and other themes. The purpose of this book is to review the research trend in education and interdisciplinary fields in the area of Social Science Researches on School Education through scaffolding the budding researchers to share their research work.

The primary goal of this book is to provide all the research that has been conducted in the context of school education at all levels. The value of a quality school education cannot be overstated. It equips individuals with strong academic progress during their lives and helps build knowledge, belief, skill, values, and moral habits in it. This is the first step towards enhancing everyone's quality of life and social and economic status. The goal of education is to develop life a little better and even more pleasant. Throughout this transformation of an individual's personality, the first step is school education at several levels. Education at schools is divided into four levels: preschool, primary, secondary, and senior secondary. Teaching and learning, particularly engaging students the theoretical knowledge, forms part of school education. Nevertheless, significant efforts are constantly being built to incorporate application-based learning into the school curriculum through numerous experiments, practicum, and social activities. Children read, comprehend, write, and speak to others expressing unique thoughts. Additionally, in this world of digital education, anyone can obtain real-time material on the internet at their disposal. They can expand their knowledge and learn new talents. Different educators and research scholars did studies on these topics, that has now been collated in a book. These works were predominantly undertaken by amateur researchers, therefore their methodology may not have been thorough, so it would be arbitrary to generalise these.

This volume contains 28 research papers on school education covering different aspects. R. Jani Jasmine, Research Scholar and Dr. H. Deepa, Assistant Professor from Manonmaniam Sundaranar University, Tirunelveli studied the self-concept of secondary school students in the Kanyakumari district. Dr. Renginy K R, Assistant Professor from Peet Memorial College,

Kerela compared the social intelligence of higher secondary students with respect to gender and locale. Priyaranjan Dash, Research Scholar, and Prof. B. N. Panda from Regional Institute of Education, Bhubaneswar assessed the trends and issues in metacognitive competencies in Science. Akhilesh Kumar, APO, Education Department and Anju Kumari, PGT, BPM +2 High School, East Singhbhum, Jharkhand did a comparative study of average scores in learning outcomes of students of classes 3, 5, and 8 in Language and Mathematics with the scores of National Achievement Survey, 2017. Bablu Karan, Research Scholar, and Dr. G.R. Angadi, Associate Professor from the Central University of Gujarat, Gandhinagar discussed the integration of Artificial Intelligence in CBSE school education as an innovative teaching and learning practice. S. Sermathangam, Research Scholar, and Dr. H. Deepa from Manonmaniam Sundaranar University, Tirunelveli studied the relationship between self-efficacy and sociability of higher secondary students. Pankaj Choudhary and Dr. T. Sangeetha from Central University of Rajasthan explored the students' beliefs about the Physics laboratory. Arul Priya Sampath, Research Scholar, and Dr. Devisri K, Assistant Professor from Tamil Nadu Teachers Education University, Chennai surveyed high school children through self-constructed multiple intelligence tests. Kalpalata Raj, Research Scholar, Maharaja Sriram Chandra Bhanjdeo University, Baripada, and Dr. Manoj Kumar Pradhan, Associate Professor, AATC, Fakirpur, Keonjhar explored the relationship between academic achievement and study habits among elementary school children. Arati Upadhyay, Research Scholar, and Dr. Yogendra Pandey, Associate Professor from Banaras Hindu University, Varanasi presented a case study on SECMOL as an alternative to deschooling education. Dr. Swapna P, Post-Doctoral Fellow, and Dr. Sindhya V, Assistant Professor, University of Kerela studied the vocational needs of inmates of Government Children's Homes in Kerela. Onima Dakpe, Research Scholar and Vijaya Lakshmi. Y, Assistant Professor from Central University of Gujarat, Gandhinagar, Gujarat conducted their reviewed study on School Readiness and found that school readiness is impacted by the family, environment, teacher-child communication, and child's age. School readiness will guide the child in learning, development of skills and completion of school.

Vaishavi Priyadarshani, Research Scholar, and Prof. R.C. Patel, Dean, Faculty of Education and Psychology, The Maharaja Sayajirao University of Baroda, Vadodara studied the status of inclusive education in elementary schools of Gadarwara, Madhya Pradesh. Y. Elin Shibi, Assistant Professor, Loyola College of Education, Chennai, and Dr. S. Devasahayam Selvakumar, Principal, Meston College of Education, Chennai explored the institutional influence on decision-making among low and high altruistic science learners. Pratyusha

Ranjan Sahoo, Research Scholar, and Prof. Gowamma, Regional Institute of Education, Bhubaneswar studied the awareness and practice of academic language of science among secondary school Science teachers in Odisha. Arti J. Pandit, Research Scholar, and Dr. A.D. Shah from Rai University, Dholka studied the effectiveness of Yoga and physical exercises on Mental Stress among secondary students. Kulwinder Kaur, Research Scholar, and Prof. Latika Sharma of Panjab University, Chandigarh attempted to understand the influence of the school environment on achievement in social science among class 9 students. Yanthunbeni T Kithan, Research Scholar and Dr. B. Venkata Rao, Assistant Professor from Nagaland University, Kohima studied the career maturity of adolescents studying in higher secondary schools. Annamma Varghese, Research Scholar and Prof. Ashutosh Biswal from The Maharaja Sayajirao University of Baroda, Vadodara have done a study on Multiple Intelligence and Cognitive Self Management of Higher Secondary School Students with Respect to their Academic Achievement and found that the Cognitive Self Management and Multiple Intelligence effects on the academic achievement of the secondary students were moderately significant. Manojkumar I Patel, Head Teacher, Bhramaninagar Primary School, Himatnagar studied the quality management of student service in the primary schools of Vadali Taluka. Simi M., Selvamari S., and Sarath Chandran R., Research Scholars from the University of Kerala explored the impact of spiritual quotient on adjustability in the environment among secondary school teachers. Dr. Hemangini Gandhi, Assistant Professor, Dr. Nandani Srivastava CEO Aatapi Foundation and Bhumika Thakur Research Scholar from The Maharaja Sayajirao University of Baroda, Vadodara have found that Maternal education is closely related to child feeding practices. To improve child feeding practices, a mother's education should be improved. Rajesh Sharma, Research Scholar, and Dr. Sangeeta Singh, Head, Dr. C.V. Raman University, Bilaspur evaluated the laboratory services of Kendriya Vidyalayas in the Bilaspur cluster. Sumitha P, Research Scholar, and Prof. R. Siva Prasad, Head, Andhra University, Visakhapatnam studied the influence of the type of syllabus on the punishment reward strategies of teachers for effective classroom management.

Sarath Chandran, Research Scholar, and Anjali Rajeevan from University of Kerala, attempted to determine the relationship between science process skills and scientific attitude among secondary school students. Palash Mandal, Research Scholar, National Sanskrit University, Tirupati studied the research trends pertaining to the Right to Education Act 2009. Navinchandra R. Bhimsen, Research Scholar, and Prof. Dipoooba H. Devada from Gujarat

Vidyapith, Ahmedabad studied the problems of Universal Elementary Education in the coastal area of Valsad district.

This book will be useful and beneficial for all practicing teachers, teacher educators and researchers working in the area of school education. We hope this book will help present and prospective teachers, teacher educators and research scholars working for the betterment of school education.

Our best wishes to all.

Prof. Ashutosh Biswal

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EVALUATION OF LIBRARY SERVICES OF KENDRIYA VIDYALAYA BILASPUR CLUSTER' LIBRARIES: A SURVEY

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ABSTRACT

School Library is considered a central entity of Vidyalaya. It supports the effective "Teaching-Learning" of Vidyalaya with its resources in a hybrid way. This study is based on Kendriya Vidyalaya Bilaspur Cluster's Libraries working under KVS RO Raipur jurisdiction. The profile of the KV Bilaspur cluster is included in this paper. The paper discussed the main objectives of these cluster libraries, digitization of library services, infrastructure and associated functioning aspects. This Paper also emphasizes the study of the functioning of library management software e-granthalaya of NIC New Delhi. The evaluation of status and services is based on guidelines formulated by KVS, CBSE. The data have been analyzed and presented in the form of table and 2-D Columns. Suggestions have also been mentioned to further strengthen the ongoing activities of these cluster libraries, particularly in this pandemic.

KEYWORDS: *Library Media Centre, Evaluation, Library Services, e-granthalaya, National Informatics Centre, Kendriya Vidyalaya Sangathan, Central Board of Secondary Education, Digitalization, Automation, Library Web blogs, Library Guidelines, Cluster libraries, Teaching-Learning, Online, G-Suite, Orientation Session, Annual Library Activity Plan, Pandemic*

Abbreviations

1. KV – Kendriya Vidyalaya
2. CAS - Current Awareness Service
3. SDI - Selective Dissemination of Services
4. NKC – National Knowledge Commission
5. Eg 3- e-granthalaya Version 3
6. OPAC – Online Public Access Catalogue
7. NIC – National Informatics Centre
8. ALAP - Annual Library Activity Plan

INTRODUCTION

The role of the school library in "Teaching-Learning" is eminent and core. These are the core entity of Vidyalaya. They are the knowledge hub and help in the creation of new knowledge. Their role has been on top demand during the current pandemic when "Teaching-Learning" took place in online mode and libraries go virtually. These libraries support the mission established by the KVS. In the recent pandemic, these libraries played a very vital role in conducting online library periods for the students. They organized their services through "G-Suite". These cluster libraries' main aim is to promote the reading habits among readers through their resources. These libraries prepare their "Annual Library Activity Plan (ALAP)" at the beginning of an academic session. It is basically getting dully approved by the authorities or cluster in charge. They begin usually with the "Orientation Session" where new readers get acquainted with the functioning of the library. They constitute the "Library

Committee" also which is headed by the Principal and Librarians is usually the "Member Secretary" of the committee. The entire activities of these cluster libraries are governed and approved by the committee. These provide a curriculum-based flexible open learning system which suited to everyone. They conduct and/or host workshops or in-service course at least once a year. These workshops enable the Librarians to update their existing knowledge in a hybrid way. They provide intellectual access to information with the help of library activities which are integrated into the curriculum. These libraries are providing services in a hybrid way. They all are fully automated using the Library Management Software of NIC New Delhi "e-granthalaya". This automation proved very beneficial in the execution of online activities of "Library Media Centre" very effectively. The profile of the cluster of KV Bilaspur is as follows:

Profile of Bilaspur Clusters of Kendriya Vidyalayas

There are 7 Kendriya Vidyalayas under the jurisdiction of KV Bilaspur Cluster. These all vidyalayas are equipped with a well-established library. These are as follows

Table 1: KVs of Bilaspur cluster

1	BILASPUR
2	KORBA II(NTPC)
3	KORBA III (KUSMUNDA)
4	KORBA IV (BCPP)
5	RAIGARH
6	JANJGIR
7	KAWARDHA

REVIEW OF RELATED LITERATURE

The following review of related literature helped to conduct the present survey.

CBSE, Organising School Library Manual. (1998). CBSE in its manual explains in depths through different chapters the functioning of school library. These include Library as a learning resource centre, promoting reading habits, books and other reading materials, physical facilities, library finance, library personnel, school library standards, collection development, technical processing, library automation, reader services, maintenance and stock verification. Library rules related to school library have also been included in this manual

Mahajan, P. (2010) stated about school library in India and explained the functioning of school libraries and evaluation techniques. This work published in School libraries in India: Present day scenario. *Library Philosophy and Practice*, 1-16. It provides the in-depth details on different aspects of school libraries.

Bhandarkar, P. S. (2013). Status of Secondary School Libraries in Chhattisgarh. *Asian Journal of Multidisciplinary Studies*. The work includes the status of school libraries in Chhattisgarh and disseminates the information about activities associated with school libraries.

KVS Library Policy (2015). Kendriya Vidyalaya Sangathan framed a comprehensive procedural manual and guidelines on functioning of school libraries of Kendriya Vidyalayas. The objectives and mission have been explained in depth. This procedural manual is divided in to two parts. First part contains the introduction, mission, objectives, types of KVs libraries, responsibilities whereas second part consists of resources, staffing, library management, library services and activities, monitoring and evaluation. It also provides how to construct the “Annual Library Activity Plan (ALAP)”.

Dr. Singh, Sangeeta and Sharma, Rajesh (2019). “Application of Library Resources and Specialised Services for Vedic Maths towards Qualitative and Quantitative results of school students: KV Bilaspur perspective. *Journal of Library and Information Communication Technology*. This work dealt with comprehensive analysis of library resources and specialized services of school libraries. These resources help producing quality education and quality academic results of students.

SCOPE

This study is based on the existing vidyalayas working under the cluster of KV Bilaspur. These vidyalayas are following the similar syllabus, pattern, time-table, infrastructure and services in all vidyalayas of clusters. This study conducted on these existing 7 KV Libraries from the cluster of Bilaspur.

METHODOLOGY

Questionnaire and interview-based survey method is used to collect the data. A link of google form was provided to the Librarians of this Vidyalaya due to current pandemic. An interview was also conducted with these Librarians to know the various services of these libraries. The questionnaire contains all the possible existing sources and services associated with the Vidyalaya and library. Data were analyzed and tabulated using spreadsheets.

STANDARDS FOR EVALUATION

This is one of the most important aspects to measure whether the existing library facilities are reaching up to the needs of the readers' community. Are they effective enough? These libraries function as per the evaluation tools and techniques adopted by the KVS HQ through the “Procedural Manual and Guideline for School Librarians”. The main objective is to create a library as the hub of most of the activities of the Vidyalaya and a central entity by creating new knowledge. The procedural manual is based on various National and International policies framed by eminent associations and organizations. These are listed below:

1. **American Associations of School Librarians – AASL:** American Association of School Librarians is a division of the American Library Association – ALA.
2. **IFLA/UNESCO Library Manifesto:** IFLA / UNESCO Library Manifesto was published in 1999, it is the primary guideline for the functioning of school libraries. In this manifesto various guidelines issues regarding the minimum standards for set up a new school library.
3. **IFLA School Library Guidelines:**
4. **CBSE Guidelines for School Libraries**

RESEARCH QUESTIONS

The below-mentioned research questions are framed in order to evaluate the various library services of these cluster libraries.

1. Status of Library Room
2. Number of Sections in the Vidyalaya
3. No of readers i.e. students and Teachers in the Vidyalaya
4. Number of Books
5. Number of Magazines
6. Subscription Pattern of Books, Magazines and Journals
7. Collections of DVD and CD - Digital collections
8. Library Services
9. Provision of Library 2.0 – Web blogs
10. Availability of Internet facility in the library
11. Staffing- Availability of sub staff in the library
12. Status of Barcoding in the Library
13. ICT infrastructure
14. Celebration of National Library events
15. Promotion of Reading Habits through Library Services

OBJECTIVES OF THE STUDY

The following are the objectives of the present study:

- To evaluate the library services of these cluster libraries
- To know the Number of Sections, Readers i.e. students and Teachers in these cluster vidyalayas
- To know the qualitative and quantitative aspects of collections of the Library of Vidyalayas
- To know the Subscription Pattern of Books, Magazines and Journals
- To know the Collections of DVD and CD - Digital collections
- To know the Library Services and Library activities
- To know the exitance of Provision of Library 2.0 – Web blogs
- To know the Availability of Internet facility in these libraries
- To be familiar with Staffing- Availability of sub staff in the cluster libraries
- To be familiar with the Status of Barcoding in these cluster libraries
- To know the ICT infrastructure among cluster libraries
- To know the Celebration of National Library events in these Libraries
- To know the Promotion of Reading Habits through Library Services of these cluster libraries

DATA INTERPRETATION AND ANALYSIS

The data have been collected through a questionnaire (Google-based form), interviews of Cluster Librarian. The analysis of data is given below in the form of charts and tables:

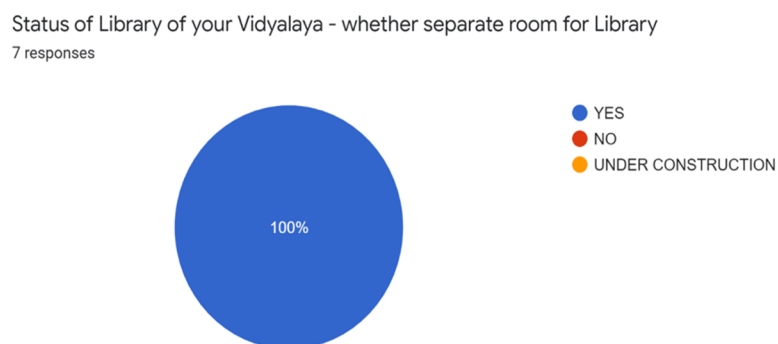


Fig.1: Status of the Library of cluster libraries

Fig.1 indicates the status of the Library of cluster libraries. Each one has well established separate room to conduct library periods for the students of the Vidyalaya. They observe 1 period per section per class every week.

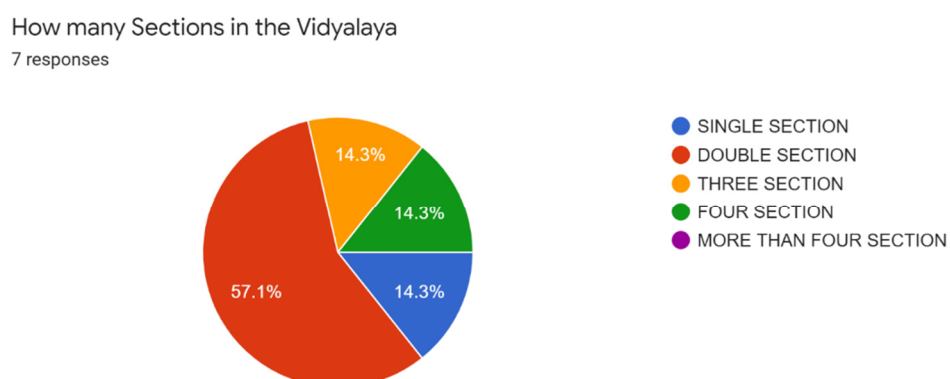


Fig.2: Number of sections in these vidyalayas

Fig.2 reveals the number of sections in these vidyalayas. These depend upon the strength of the students. As per the analysis of this data 14.3% have a single section, three and four sections school whereas 57.1% of vidyalayas accommodates students in double sections.

Table 2: The number of readers in these vidyalayas

No. of Vidyalayas	No. of readers
14.3	<500
28.6	>500 <1000
42.9	>1000 <1500
14.3	>1500

Table. 2 shows the number of readers in these vidyalayas. As per analysis of data the vidyalayas having < 500 readers is 1 (14.3%), >500 and < 1000 are 2 (28.6%), >1000 and <1500 are 3 (42.9%) and >1500 is 1 (14.3%). The Primary students attend class libraries whereas the students from class 6 onwards attend their library periods in the Main Library. Hence in these Kendriya Vidyalayas all students are getting library facilities and these libraries are formed of two types of libraries i.e., Class Library (for classes 1 to 5) and Main Library (for classes 6 to 12).

Table 3: Comparative analysis of cluster libraries in terms of number of books, number of magazines, number of sections and number of readers

Sl. No.	Name of Vidyalaya	Number of Books	Number of Magazines	Number of Sections	Number of Readers
1	BILASPUR	100074	36	3	> 1500
2	KORBA II(NTPC)	16700	30	2	>1000 <1500
3	KORBA III (KUSMUNDA)	12700	23	3	>500 <1000
4	KORBA IV (BCPP)	4580	26	2	>1000 <1500
5	RAIGARH	8662	15	2	>500 <1000
6	JANJGIR	4500	31	2	>1000 <1500
7	KAWARDHA	1200	5	1	<500

Subscription Pattern of Books, Magazines and Journals

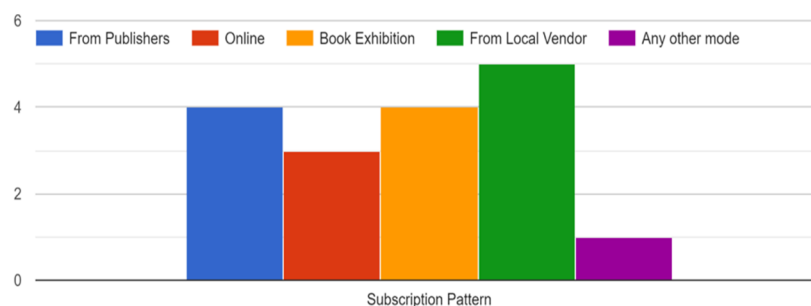


Fig.3 Subscription pattern of books, magazines and journals in these cluster libraries

Fig.3 shows the subscription pattern of books, magazines and journals in these cluster libraries. Data analysis indicates they prefer from Local Vendors (71.42%) and through publishers and book exhibitions (57.14%) whereas some also opt online (42.85%).

Whether DVD and CD - Digital collections are existing
7 responses

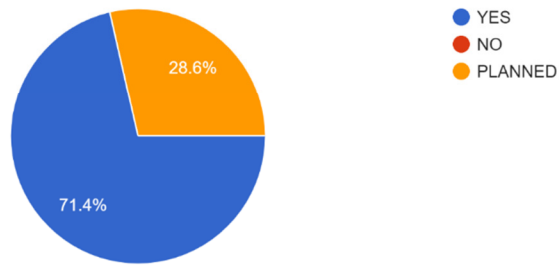


Fig.4: Procurement of DVD and CD

Fig.4 shows Procurement of DVD and CD. The analysis reveals that 71.4% of these libraries execute their services through digital media and subsequently have a provision in their budget to procure it. 28.6% of libraries are planning to initiate this process.

Executing Library Services for readers

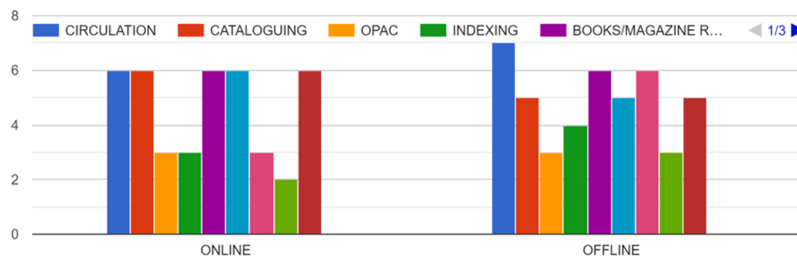


Fig.5.1 Provision of Library Services to readers

Executing Library Services for readers

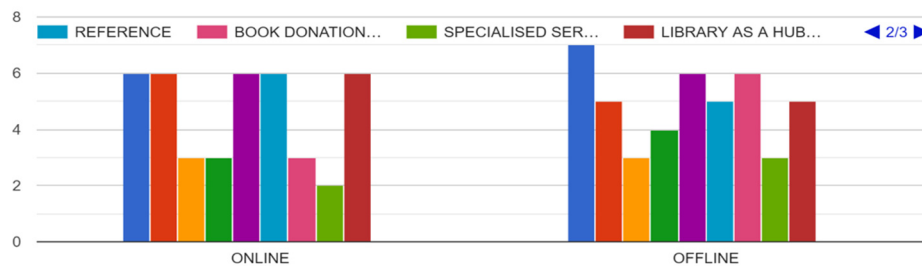


Fig.5.2 Provision of Library Services to readers

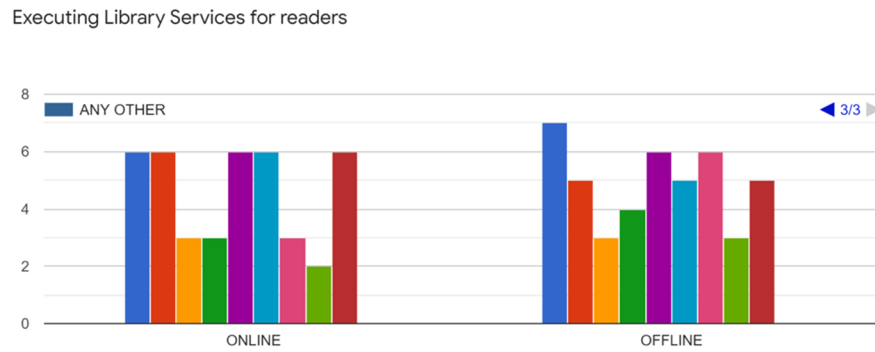


Fig. 5.3 Provision of Library Services to readers

Fig.5.1 to 5.3 shows Provision of Library Services to readers. The analysis says that these libraries adopt a hybrid way to execute the library services. These include the provision of online and offline execution. These services include Circulation, Cataloguing, OPAC, Indexing, Books and Magazine Reviews, Reference, Books Donation, Specialized Services, Library as the hub of activities of Vidyalaya. The percentage of execution of online and offline mode differ in these libraries as per the analysis mentioned – Circulation (Online 6 and offline 7), Cataloguing (online 6 and offline 5), Indexing (online 3 and offline 4), Books and Magazines Reviews (online 6 and offline 6), Reference (online 6 and offline 5), Book Donation (online 3 and offline 6), Specialised services like CAS and SDI (online 2 and offline 3) and Library as hub of activities of Vidyalaya (online 6 and offline 5). Analysis indicates the online ways of execution has been increased due to online mode of teaching-learning during a pandemic.

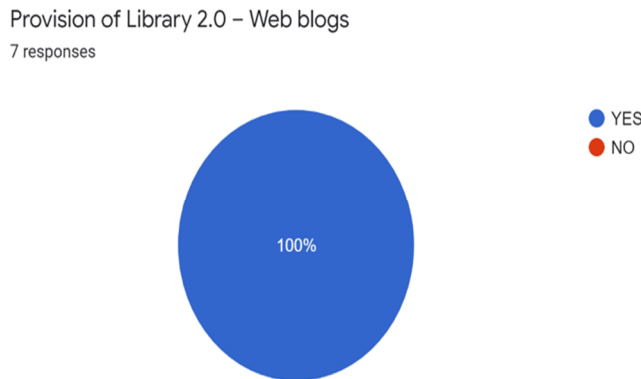


Fig.6: Provision of Library 2.0

Fig.6 shows provision of Library 2.0. The analysis reveals that all the cluster libraries have created and utilized library 2.0 which includes the creation of Library Web blog and e-newsletter. Some of the libraries like KV Bilaspur have started their Wakelet profile which contains the teachers' and students' resources.

Availability of Internet facility in the Library

7 responses

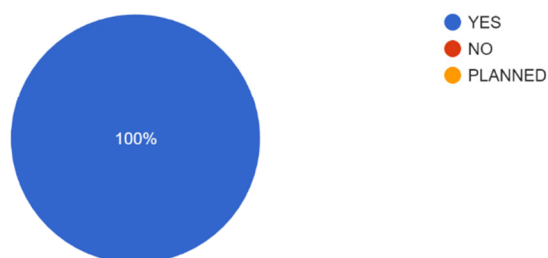
**Fig.7: Availability of Internet facility**

Fig.7: shows Availability of Internet facility. Since the inception of Library 2.0 is mandatory in these cluster libraries hence as analysis reveals 100% Internet facility has been established. This helps the reader to access desired materials with ease and in the shortest possible time.

Staffing- Availability of sub staff in the Library

7 responses

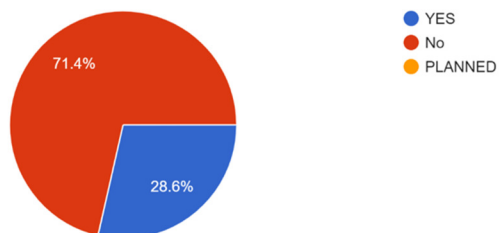
**Fig.8: Staffing Availability of Sub Staff in the Library**

Fig.8: As per the procedural manual and Guidelines of Libraries of KVS HQ the provision of sub-staff in the library has been made. As per analysis 71.4% of libraries have managed the sub-staff where as 28.6% of libraries have made plans to include it in its staff strength.

Status of Barcoding in the Library

7 responses

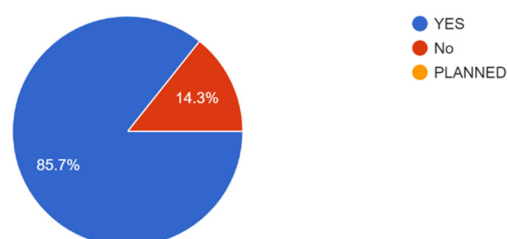
**Fig.9: Status of Barcoding in the Library**

Fig.9: As per the analysis these libraries have procured and installed e-granthalaya Version 3 library management software in order to automate the library and its services. This software extends facilities to generate the bar code. The figure indicates that 85.7% of libraries have been bar-coded whereas 14.4 library needs to be bar-coded using this software.

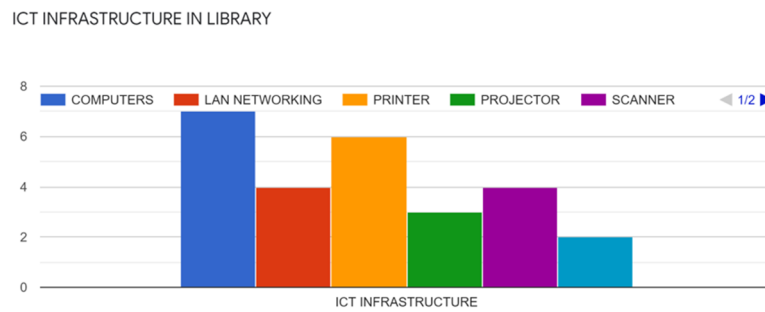


Fig.10: ICT Infrastructure in these libraries

Fig.10 shows ICT Infrastructure in these libraries. As per data analysis that Computer (100%), LAN (57.14%), Printer (85.71%), Projector (42.85%), Scanner (57.14%), are existing in these libraries to perform digital mode of operations.

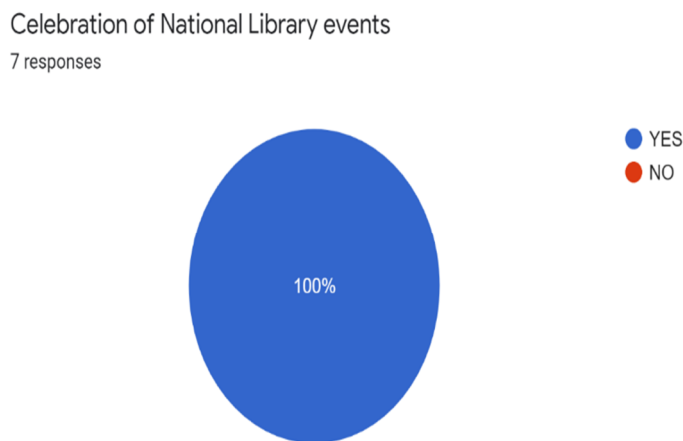


Fig.11: Celebration of National library events

Fig.11 indicates that all the cluster libraries (100%) are celebrating the National Library events such as "National Digital Reading Day/Week/Month", "National Librarian's Day", "World Book Day", "National Library Week" by organizing various activities and competitions for their readers.

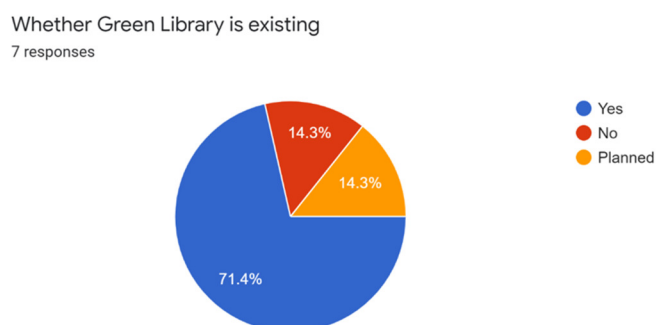


Fig.12: Existence of Green Library

Fig.12 shows as per analysis of data and as per the library policy these cluster libraries (71.4%) are maintaining “Green Library” whereas 14.3% of libraries have planned to convert it in to Green Library. This enables libraries to avoid the negative impact.

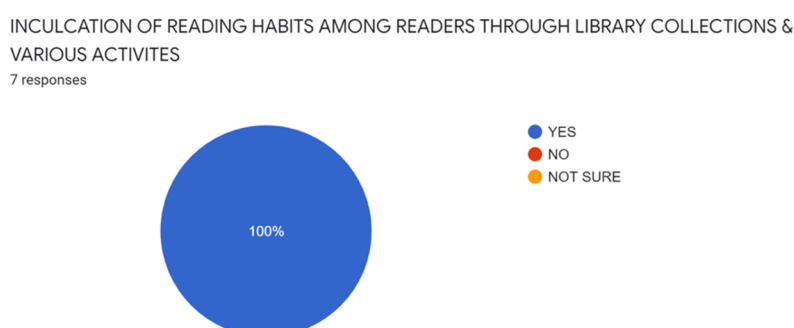


Fig.13: Inculcation of reading habits among readers through library collection and various activities

Fig.13 present analysis reveals that these resources and collections of cluster libraries (100%) promote the reading habits among their readers. The Librarians prefer users 'requisition-based procurement of resources which subsequently help to inculcate the reading habits.

The respondents were also informed during telephonic interviews about any other services or achievements of the library. These are as follows:

- (i) Hosted In-Service Courses, Workshops, Meetings, Hub of activities, Librarians bagged Regional and National Incentive Award from KV Bilaspur
- (ii) Activities - Quiz, Book Mark, Book Cover, story writing, storytelling, Book Review, special day celebration etc.
- (iii) Shifted in New Building of Vidyalaya
- (iv) Covid 19 pandemic time children has given e-book and resource materials and virtual libraries
- (v) Library Orientation Programmes
- (vi) Career Counselling Services

SUGGESTIONS

Though the cluster libraries under the procedural manual of KVS are working very effectively anyhow the following suggestion may further be strengthened their effectiveness.

1. These libraries should form a "Network" which will provide better access facilities and will save time.
2. Mobile based app may be another supplement option for the execution during the pandemic.
3. Staffing should be further strengthened depending upon the strength of the reader in Vidyalaya.

CONCLUSION

The present study indicates the importance of cluster libraries and their services, especially in this pandemic. These library services have been executed in a hybrid way and played a very vital role in the teaching-learning process hence the other school educational system may adopt this strategy and may implement the Annual Library Activities as mentioned in the paper. It may also be utilized to study the need analysis tool for improving the library services, library planning.

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