

## Indian Knowledge System in Libraries

Gohel Bhavin Batukbhai <sup>1\*</sup>

### ABSTRACT

The Indian Knowledge System (IKS) represents the accumulated intellectual traditions of India developed over millennia in diverse fields such as philosophy, science, mathematics, medicine, governance, linguistics, art, and literature. Libraries have historically served as custodians of this knowledge by preserving manuscripts, rare books, inscriptions, and oral traditions. In the contemporary academic environment, libraries play a crucial role in organizing, digitizing, and disseminating indigenous knowledge resources for research and education. This paper explores the concept of Indian Knowledge Systems and examines the role of libraries in preserving, promoting, and integrating traditional knowledge within modern information services. It discusses the historical foundations of knowledge preservation in India, the transformation of libraries in the digital era, and the relevance of IKS in higher education and research. The study highlights the importance of manuscript conservation, digitization initiatives, metadata development, institutional repositories, and user awareness programs. It also identifies key challenges including language barriers, preservation issues, inadequate funding, technological limitations, and lack of specialized training. The paper concludes that libraries must adopt innovative strategies such as digital archiving, collaboration with cultural institutions, development of special IKS collections, and promotion of interdisciplinary research to ensure sustainable preservation and accessibility of Indian Knowledge Systems. Strengthening the role of libraries in this direction will contribute significantly to cultural continuity, national identity, and knowledge-based development.

**Keywords:** *Indian Knowledge System, Libraries, Manuscripts, Digitization, Traditional Knowledge*

Indian Knowledge System refers to the rich and diverse body of knowledge developed in the Indian subcontinent across centuries. Ancient Indian scholars made remarkable contributions in areas such as astronomy, mathematics, metallurgy, medicine, architecture, linguistics, philosophy, governance, and environmental sustainability. Texts like the Vedas, Upanishads, Arthashastra, Ramayana, Mahabharata, Charaka Samhita, and Sushruta Samhita reflect deep intellectual traditions. Institutions such as Nalanda and Takshashila functioned as early knowledge centers attracting scholars from across the world. Libraries, in various forms, have always played a central role in preserving and transmitting this knowledge from one generation to another.

With the advancement of modern library science and information technology, the responsibility of libraries has expanded beyond preservation to include organization, access, dissemination,

<sup>1</sup> Librarian, L. R. Valia Arts and P. R. Mehta Commerce College, Bhavnagar, Email: gohel.bhavin6@gmail.com  
\*Corresponding Author

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and digital archiving. In the context of Indian Knowledge Systems, libraries act as bridges connecting traditional wisdom with contemporary research and education. The integration of IKS resources into academic and public libraries ensures that indigenous knowledge remains relevant in modern times.

### **HISTORICAL FOUNDATIONS OF KNOWLEDGE PRESERVATION**

India's tradition of documentation dates back thousands of years. Knowledge was recorded on palm leaves, birch bark (bhojpatra), copper plates, and stone inscriptions. These materials preserved religious texts, medical treatises, philosophical discourses, administrative records, and literary works. Temple libraries and monastery archives maintained carefully organized collections. However, due to invasions, environmental damage, and lack of preservation techniques, many manuscripts were destroyed. The surviving manuscripts, scattered across institutions and private collections, are invaluable sources of historical and intellectual insight. Modern libraries now undertake systematic conservation using scientific techniques such as fumigation, deacidification, encapsulation, climate-controlled storage, and restoration processes to protect fragile documents.

#### **Concept and Scope of Indian Knowledge System**

The scope of Indian Knowledge Systems is vast and multidisciplinary. It includes philosophical schools such as Vedanta, Nyaya, and Buddhism; scientific achievements in mathematics including the concept of zero and decimal system; medical sciences like Ayurveda and Yoga; environmental ethics promoting harmony with nature; and governance principles articulated in ancient texts. The knowledge system is holistic in nature, emphasizing ethical values, sustainability, and interconnectedness of life.

Indian Knowledge Systems are transmitted through written manuscripts, oral traditions, folk practices, temple inscriptions, and community knowledge. Libraries play a crucial role in documenting, cataloguing, and preserving these diverse forms of knowledge. The preservation of such materials is essential not only for historical study but also for contemporary innovation and sustainable development.

### **ROLE OF LIBRARIES IN PRESERVING INDIAN KNOWLEDGE**

Libraries perform several essential functions in preserving and promoting Indian Knowledge Systems:

#### **1. Collection Development**

Academic and research libraries actively collect manuscripts, rare books, theses, research articles, and government publications related to IKS. Special collections dedicated to Sanskrit literature, regional texts, and indigenous research works ensure focused preservation.

#### **2. Conservation and Preservation**

Preservation of manuscripts requires advanced conservation techniques. Libraries establish conservation laboratories equipped with scientific tools to prevent deterioration caused by humidity, insects, and aging. Proper storage conditions significantly extend the life of fragile documents.

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### 3. Digitization and Digital Repositories

Digitization is one of the most transformative developments in modern librarianship. By converting manuscripts and rare texts into digital formats, libraries ensure long-term preservation and global accessibility. Institutional repositories archive research outputs related to Indian Knowledge Systems, enabling scholars worldwide to access valuable resources.

### 4. Cataloguing and Metadata Development

Proper cataloguing and subject indexing enhance discoverability. Developing metadata standards specifically designed for traditional knowledge improves retrieval efficiency. Multilingual catalogues help overcome language barriers and expand user access.

### 5. Research Support Services

Libraries assist researchers by providing reference services, bibliographic assistance, and access to primary sources. They organize workshops, exhibitions, seminars, and orientation programs to promote awareness of Indian Knowledge resources.

### 6. Community Knowledge Documentation

Public libraries and community libraries document local knowledge, folk medicine, tribal traditions, and oral histories. By recording grassroots knowledge, libraries contribute to inclusive knowledge preservation.

Libraries function as custodians of cultural heritage. They collect rare manuscripts, palm-leaf documents, copper plates, and early printed books. Preservation techniques such as climate-controlled storage, conservation treatment, and digital scanning are essential to protect fragile materials. Many academic libraries have established special collections dedicated to Sanskrit texts, regional literature, and indigenous research works.

Digitization has transformed the accessibility of Indian Knowledge resources. Through digital repositories and institutional archives, libraries provide global access to rare manuscripts and research publications. Metadata standardization and subject indexing enhance discoverability of traditional knowledge resources. Libraries also collaborate with national initiatives and research institutions to ensure systematic documentation and preservation.

In addition to preservation, libraries promote awareness of Indian Knowledge Systems through exhibitions, seminars, workshops, and reading programs. Librarians guide researchers in accessing primary sources and support interdisciplinary research that integrates traditional knowledge with modern scientific inquiry.

## CHALLENGES IN INTEGRATING INDIAN KNOWLEDGE SYSTEM IN LIBRARIES

Despite significant efforts, libraries face several challenges in integrating Indian Knowledge Systems:

1. **Deterioration of Manuscripts:** Many manuscripts are centuries old and extremely fragile.
2. **Language Barriers:** Texts are written in Sanskrit, Prakrit, Pali, or regional scripts not widely understood.
3. **Limited Funding:** Conservation and digitization projects require substantial financial resources.

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4. **Technological Constraints:** Advanced scanning equipment and digital preservation software are costly.
5. **Lack of Skilled Professionals:** There is a shortage of experts trained in manuscriptology and digital archiving.
6. **Metadata Standardization Issues:** Traditional knowledge does not always fit into conventional classification systems.

Addressing these challenges requires coordinated efforts from government agencies, academic institutions, and library professionals.

Despite significant efforts, libraries face several challenges in preserving and promoting Indian Knowledge Systems. Many manuscripts are deteriorating due to age, humidity, insects, and improper storage. Conservation requires specialized expertise and financial resources. Language barriers also limit accessibility, as many texts are written in Sanskrit, Prakrit, or regional scripts that are not widely understood.

Technological challenges include inadequate digitization infrastructure, lack of standardized metadata for traditional knowledge, and limited funding for large-scale preservation projects. Furthermore, there is a shortage of trained professionals skilled in manuscriptology, archival science, and digital preservation. Addressing these challenges requires coordinated policy support and institutional commitment.

### Strategies for Strengthening IKS in Libraries

To strengthen the integration of Indian Knowledge Systems in libraries, the following strategies are recommended:

- Establish dedicated IKS resource centres within universities.
- Implement high-resolution digitization and digital preservation policies.
- Develop multilingual digital catalogues and databases.
- Provide specialized training programs for librarians.
- Encourage collaboration with research institutions and cultural organizations.
- Promote awareness programs and community engagement initiatives.
- Seek funding through national missions and heritage preservation schemes.
- These measures will ensure sustainable preservation and enhanced accessibility.

Libraries should adopt comprehensive digitization strategies using high-resolution scanning and digital preservation standards. Development of multilingual digital catalogs can improve accessibility for researchers across linguistic backgrounds. Training programs and workshops for librarians in manuscript conservation and digital archiving are essential.

Collaboration with universities, research institutes, and cultural organizations can enhance resource sharing and scholarly engagement. Establishing dedicated IKS resource centers within academic libraries can promote focused research. Community participation and awareness programs can also encourage documentation of local and folk knowledge traditions.

## RELEVANCE OF INDIAN KNOWLEDGE SYSTEM IN MODERN EDUCATION

Indian Knowledge Systems provide valuable insights into sustainable living, ethical governance, holistic health, and scientific reasoning. Integrating these resources into library collections supports interdisciplinary education and research. Libraries can curate reading lists,

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digital exhibits, and thematic databases aligned with curriculum requirements. By doing so, libraries contribute to intellectual diversity and cultural preservation.

### CONCLUSION

Indian Knowledge System represents a treasure of intellectual heritage that requires systematic preservation and promotion. Libraries, as knowledge institutions, hold a strategic position in safeguarding this heritage and making it accessible to scholars and society. Through digitization, conservation, collaboration, and user education, libraries can ensure that traditional knowledge remains dynamic and relevant. Strengthening the integration of Indian Knowledge Systems in libraries will not only preserve cultural identity but also inspire innovation rooted in indigenous wisdom. The future of knowledge development in India depends on harmonizing traditional insights with modern information systems, and libraries are central to this transformative process.

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#### *Conflict of Interest*

The author declared no conflict of interest.

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