



National Journal of Hindi & Sanskrit Research

ISSN: 2454-9177

NJHSR 2026; 1(65): 291-292

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www.sanskritarticle.com

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Role Of Sanskrit Scriptures In Modern Indian Knowledge Systems

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Abstract:

Sanskrit, the classical language of India, represents one of the richest repositories of knowledge in human civilization. Far beyond its literary and spiritual dimensions, Sanskrit literature preserves scientific insights in cosmology, medicine, botany, environmental science, optics, metallurgy, and energy systems. The present study examines selected textual references from major Sanskrit sources to demonstrate their continuing relevance in contemporary intellectual discourse. Through textual analysis and comparative interpretation, this paper highlights conceptual parallels between traditional Indian Knowledge Systems and modern scientific thought. The study argues that Sanskrit scriptures should not be viewed merely as religious documents, but as multidisciplinary knowledge archives capable of contributing to sustainable and holistic development.

Keywords:

Sanskrit Scriptures, Indian Knowledge Systems, Panchabhuta Theory, Ancient Science, Environmental Ethics, Electricity in Ancient India, Cosmology, Classical Knowledge Traditions.

Introduction:

Sanskrit functioned for centuries as the primary medium of intellectual, cultural, scientific, and administrative communication across the Indian subcontinent. It served as the language of philosophy, astronomy, mathematics, governance, law, art, and medicine. The intellectual traditions preserved in Sanskrit texts reflect systematic observation, logical reasoning, and empirical engagement with the natural world. Modern education systems often separate science and humanities into distinct domains. However, Sanskrit literature presents an integrated worldview in which poetry, philosophy, and science coexist harmoniously. The sages of ancient India approached knowledge holistically, recognizing interconnectedness between human life and the cosmos.

Medicinal and Botanical Knowledge in Classical Texts:

Classical Sanskrit poetry contains detailed observations of flora and their properties. For instance, Kumārasambhavam describes the Sarala tree and its medicinal exudation.

कपोलकण्ठः करिभिर्विनेतुं विघट्टितानां सरलद्रुमाणाम् ।

यत्र स्रुतक्षीरतया प्रसूतः सानूनि गन्धः सुरभीकरोति ॥ (1.9)

The milky secretion of the Sarala tree suggests therapeutic application for skin diseases. Such poetic descriptions reflect experiential botanical knowledge integrated into literature. Similarly, the reference to luminous herbs indicates awareness of natural luminescent phenomena in forests:

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वनेचराणां वनितासखानां दरीगृहोत्सङ्गनिषक्तभासः ।

भवन्ति यत्रौषधयो रजन्यामतैलपूराः सुरतप्रदीपाः ॥ (1.10)

These references illustrate how Sanskrit texts preserve ecological and medicinal insights.

Cosmology and the Panchabhūta Theory:

The doctrine of five elements (Panchabhūta) forms a foundational principle in Indian philosophy. The Taittirīya Upaniṣad presents the sequence of cosmic evolution:

तस्माद् वा एतस्मादात्मन आकाशः सम्भूतः ।

आकाशात् वायुः । वायोः अग्निः ।

अग्नेः आपः । अद्भ्यः पृथिवी ॥

This ordered progression from subtle to gross elements parallels modern understandings of matter transformation and energy states. While symbolic in nature, the conceptual framework demonstrates systematic cosmological thinking.

Concept of Electricity in Agastya Samhita

Energy generation is described in Agastya Samhitā through instructions involving copper plates, earthen pots, and chemical substances:

संस्थाप्य मृण्मयं पात्रं ताम्रपत्रं सुसंस्कृतम् ।

संयोगाज्जायते तेजो यन्मित्रमिति कथ्यते ॥

The procedure resembles the construction of a primitive electrochemical cell. Whether interpreted symbolically or technically, it demonstrates advanced material awareness.

Optics and Atmospheric Phenomena

The Bṛhat Samhitā explains rainbow formation as dispersion of solar rays:

सूर्यस्य विविधवर्णाः पवनेन विघट्टिताः कराः ।

वियति धनुः संस्थानाः ये दृश्यन्ते तदिन्द्रधनुः ॥

This description reflects understanding of refraction and dispersion of light.

Environmental Consciousness in Sanskrit Literature

Environmental ethics form a core theme in Sanskrit texts.

The Mahābhārata states:

वल्ली वेष्टयते वृक्षं सर्वतश्चैव गच्छति ।

तस्मात् पश्यन्ति पादपाः ॥

The dictum 'वृक्षो रक्षति रक्षितः' encapsulates sustainable ecological philosophy, highlighting interdependence between humans and nature.

Relevance to Modern Indian Knowledge Systems:

The scientific insights embedded in Sanskrit literature are not isolated observations. They represent components of a coherent knowledge system integrating ethics, ecology, medicine, and cosmology. Contemporary interdisciplinary

research increasingly recognizes the value of traditional knowledge systems in promoting sustainable development.

Need for Academic Re-engagement:

Despite its intellectual richness, Sanskrit remains underutilized in mainstream research. Modern scholarship must move beyond stereotypes and approach Sanskrit texts with rigorous methodology, interdisciplinary collaboration, and critical analysis.

Institutions should integrate Sanskrit-based knowledge into curriculum frameworks under Indian Knowledge Systems (IKS) initiatives. Such engagement can bridge traditional wisdom and contemporary innovation.

Conclusion

Sanskrit scriptures preserve multidimensional knowledge encompassing science, philosophy, ethics, and culture. From cosmology and optics to medicine and environmental sustainability, these texts exhibit analytical depth and observational precision. Renewed scholarly focus on Sanskrit literature is essential for revitalizing Indian Knowledge Systems and contributing meaningfully to global intellectual heritage.

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