



ISSN NO. 2320-5407

ISSN: 2320-5407

# International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

## REVIEWER'S REPORT

Manuscript No.: IJAR- 57100

Title: Chronicle of Contemporary Development of Cosmology and Understanding of Universe.

### Recommendation:

Accept as it is

**Accept after minor revision**

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity			✓	
Significance			✓	

Reviewer Name: **ANAPANA GOPAL**

### Reviewer's Comment for Publication.

#### General Comments

The manuscript attempts to provide a comprehensive narrative of cosmological developments, ranging from classical theories to modern concepts and introducing an alternative "Dead Universe" theory. While the topic is broad and ambitious, the paper lacks scientific rigor, clarity, and focus expected of a scholarly review article. The manuscript blends scientific discussion with philosophical speculation without clear distinction, which weakens its academic credibility. Significant revisions are required to align the work with standards of scientific publishing.

#### Content and Originality

The manuscript covers a wide range of topics in cosmology, including:

Big Bang theory

Cosmic inflation

Dark matter and dark energy

Multiverse concepts

Space exploration

The introduction of the "Dead Universe" theory represents an attempt at originality. However:

The theory is highly speculative and not supported by sufficient empirical or mathematical evidence.

Claims such as reinterpretation of cosmic expansion and dismissal of the Big Bang model are not justified scientifically.

Much of the earlier content is general knowledge and lacks synthesis or critical insight.

Overall, originality exists but is not scientifically validated, limiting its contribution.

#### Technical Quality

The technical quality is poor to moderate, with major concerns:

Absence of mathematical formulation or modeling

Lack of testable hypotheses

No data analysis or observational validation

Misinterpretation or oversimplification of established theories

# International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

*www.journalijar.com*

---

## REVIEWER'S REPORT

Unsupported claims (e.g., questioning Big Bang validity without evidence)

For example, the proposed modification of Hubble's Law (pages ~13–14) is introduced without derivation, justification, or validation.

The manuscript does not meet the technical standards required for publication in physics or cosmology journals.

### Language and Presentation

There are significant language and stylistic issues:

Informal and narrative tone (e.g., storytelling style in multiple sections)

Grammatical errors and awkward phrasing

Repetition and verbosity

Mixing of scientific and philosophical language

Examples:

Use of phrases like “cosmic womb,” “cosmic tomb,” and “last dance” reduces scientific clarity

Inconsistent tense and sentence structure throughout

The manuscript requires extensive professional language editing.

### Structure and Organization

The structure is poorly organized and lacks coherence:

Sections are excessively long and unfocused

The “Literature and Methodology” section does not describe a real methodology

No clear separation between review content and proposed theory

Redundancy across sections

Figures/tables (if any) are not systematically integrated

Additionally:

The manuscript reads more like an essay or conceptual narrative rather than a structured research/review paper.

### References and Citations

Citations are inconsistent and improperly formatted

Many references appear unclear, incomplete, or incorrectly numbered

Lack of recent, high-impact journal references

Some claims are made without citation

The reference section requires:

Standard formatting (APA/IEEE/Elsevier style)

Inclusion of peer-reviewed sources

Proper in-text citation alignment

### Final Decision

**Minor to moderate revisions required.**