



Journal of Commercializable Technologies

Bridging Innovation to Impact.





Journal of Commercializable Technologies
Volume 1(01), INDEX



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Message from Editor-in-Chief

Prof. Krishna Kant Sharma

Associate Dean (Research & Development),

Director (Professional Consultancy Cell)

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It gives me immense pleasure to present the inaugural issue of *The Journal of Commercializable Technologies (JCT)*. The launch of this journal marks an important milestone in our collective efforts to bridge the gap between scientific discovery and societal application.

In recent decades, the world has witnessed remarkable advancements in science, engineering, biotechnology, information technology, and allied disciplines. However, the true value of innovation is realized only when research outcomes are translated into technologies, products, services, and solutions that address real-world challenges. The commercialization of technology has emerged as a critical driver of economic growth, industrial competitiveness, sustainable development, and societal progress.

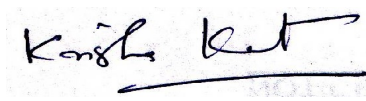
As researchers, educators, and innovators, we have a responsibility not only to generate knowledge but also to facilitate its transformation into tangible benefits for society. Universities and research institutions are increasingly becoming hubs of innovation, entrepreneurship, consultancy, and technology transfer. The Journal of Commercializable Technologies has been conceived as a dedicated platform to showcase research with translational potential and to encourage meaningful interactions among academia, industry, policymakers, entrepreneurs, and investors.

This journal welcomes high-quality contributions that highlight novel technologies, proof-of-concept studies, intellectual property-driven innovations, startup ecosystems, technology transfer strategies, industrial applications, and commercialization pathways across diverse disciplines. We aim to foster interdisciplinary collaborations that accelerate the journey from laboratory research to market-ready solutions.

As an academician and researcher deeply engaged in scientific research, consultancy, and innovation-driven initiatives, I firmly believe that the future of research lies in its ability to create measurable societal and economic impact. Through this journal, we aspire to nurture a culture where innovation is not merely published but also protected, developed, and successfully deployed.

I extend my sincere gratitude to the editorial board, reviewers, authors, and all stakeholders whose efforts have made this launch possible. I invite researchers, innovators, entrepreneurs, and industry leaders worldwide to contribute to this exciting endeavor and help establish JCT as a leading forum for transformative and commercializable technologies.

I wish the journal great success in advancing innovation, entrepreneurship, and sustainable technological development.

A handwritten signature in black ink, reading "Krishna Kant Sharma". The signature is written in a cursive style with a horizontal line underneath.

Prof. Krishna Kant Sharma

Chief Editor

Journal of Commercializable Technologies

Prof. Rajeev Kumar Kapoor

Professor, Department of Microbiology

Deputy Director, Centre for Intellectual Property Rights
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Patent Agent (India)

Maharshi Dayanand University, Rohtak, India



It is a matter of great pride and satisfaction to welcome readers, researchers, innovators, entrepreneurs, and industry professionals to the inaugural issue of *The Journal of Commercializable Technologies (JCT)*.

The modern research ecosystem is undergoing a significant transformation. Scientific excellence is no longer measured solely by publications and citations but also by the ability of research outcomes to generate intellectual property, foster innovation, create startups, strengthen industries, and contribute to national development. In this evolving landscape, the commercialization of technology has become a crucial bridge connecting academic research with societal and industrial needs.

Throughout my academic and professional journey, I have witnessed the immense potential of research-driven innovation. As a researcher in microbiology and biotechnology, and as a practitioner in the field of intellectual property rights, I have observed that many promising discoveries fail to reach the marketplace due to inadequate awareness of intellectual property protection, technology transfer mechanisms, and commercialization strategies. This journal has been established to address that gap.

The Journal of Commercializable Technologies seeks to provide a dedicated platform for researchers and innovators working at the interface of science, technology, entrepreneurship, intellectual property, and commercialization. We encourage submissions that demonstrate technological novelty, practical applicability, patentability, scalability, and market potential. The journal will serve as a forum for discussing

emerging technologies, technology readiness, startup development, innovation management, licensing practices, patent landscapes, and successful commercialization case studies.

Innovation flourishes when supported by robust intellectual property systems and effective technology transfer frameworks. As institutions worldwide strive to strengthen their innovation ecosystems, it is essential to cultivate a culture that values creativity, protects intellectual assets, and facilitates the translation of research into impactful products and services. Through JCT, we aim to promote this culture and support innovators in transforming ideas into opportunities.

I express my sincere appreciation to our distinguished editorial board members, reviewers, authors, and supporters for their valuable contributions in bringing this vision to life. I warmly invite researchers, academicians, industry experts, startup founders, technology managers, and policymakers to engage with the journal and contribute to building a vibrant ecosystem of innovation and commercialization.

Together, let us accelerate the transformation of knowledge into wealth, innovation into enterprise, and research into societal impact.

A handwritten signature in purple ink, reading "Rajeev Kapoor". The signature is stylized with a large, looping initial 'R' and a long, horizontal stroke extending to the right.

Dr. Rajeev Kumar Kapoor

Chief Editor

Journal of Commercializable Technologies



Journal of Commercializable Technologies

Volume 1(Q1), About the Journal



Aim of the Journal

The Journal of Commercializable Technologies is a peer-reviewed, scholarly publication dedicated to publishing high-quality, original research and innovative applications in commercial technology. The Journal functions as a dedicated translational platform that bridges the gap between early-stage technological innovation and technology deployment and investment. The journal focuses on technologies at Technology Readiness Levels (TRL) 1–3, where scientific ideas and proof-of-concept developments are most vulnerable to stagnation due to lack of visibility, protection, or industrial linkage.

The journal seeks to:

- Identify, curate, and disseminate promising nascent technologies with clear commercial or societal application potential.
- Facilitate direct visibility and interaction between researchers, innovators, industrial stakeholders, venture capitalists, incubators, and technology investors.
- Support authors through structured patentability assessment of submitted work.
- Enable intellectual property protection prior to publication, wherein the journal's IPR team will, where applicable, file patents on behalf of authors before public disclosure.
- By integrating technology evaluation, IP protection, and dissemination within a single publication framework, the journal plays a dual role:

(1) safeguarding innovation through early IP intervention, and

(2) accelerating technology translation by making protected innovations accessible to stakeholders capable of advancing them to higher TRLs and eventual commercialization.

Scope of the Journal

Core Scope Areas, The journal covers, but is not limited to, the following technology domains:

- Science and Engineering-Based Technologies
- Biotechnology and life sciences
- Pharmaceutical and biomedical technologies
- Chemical, materials, and nanotechnologies
- Mechanical, electrical, civil, and environmental engineering
- Energy, sustainability, and green technologies
- Food, agriculture, and bio-processing technologies

2. Digital and Information Technologies

- Information and communication technologies (ICT)
- Artificial intelligence, machine learning, and data-driven systems
- Automation, sensors, IoT, and smart systems
- Software platforms with clear industrial or commercial application

3. Product and Process Innovations

- Novel products, prototypes, or material systems
- Innovative processes, workflows, or manufacturing routes
- Scalable methods that improve efficiency, cost, sustainability, or performance
- Hybrid product–process systems suitable for industrial adoption

4. Educational Technologies

- Technology-enabled learning tools and platforms
- Novel pedagogical frameworks with deployable models
- Assessment, evaluation, or delivery systems with commercialization potential
- Digital, AI-assisted, or hardware-supported education solutions

5. Social Innovation and Applied Social Sciences

- Technology-driven solutions addressing societal challenges
- Scalable social innovation models with measurable impact
- Novel methodologies applicable to governance, policy, development, or public systems
- Interventions suitable for deployment by institutions, NGOs, or industry

6. Physical Sciences and Forensic Technologies

- Applied physics and chemistry-based innovations
- Analytical tools, instruments, and detection systems
- Forensic methodologies, devices, or analytical workflows with field applicability

Thematic Focus

The journal particularly encourages submissions that address:

- *Early identification of commercial pathways*
- *Patentable novelty in products, processes, or methodologies*
- *Translation of academic research into industry-ready concepts*
- *Cross-disciplinary technologies that defy traditional journal boundaries*
- *Innovations at a nascent but high-impact stage*

The Journal of Commercializable Technologies *is not merely a repository of research articles, but a technology acceleration ecosystem—protecting innovation, showcasing potential, and enabling meaningful engagement between creators and investors at the earliest and most critical stages of technology development.*

Integrated Publication and Protection Model

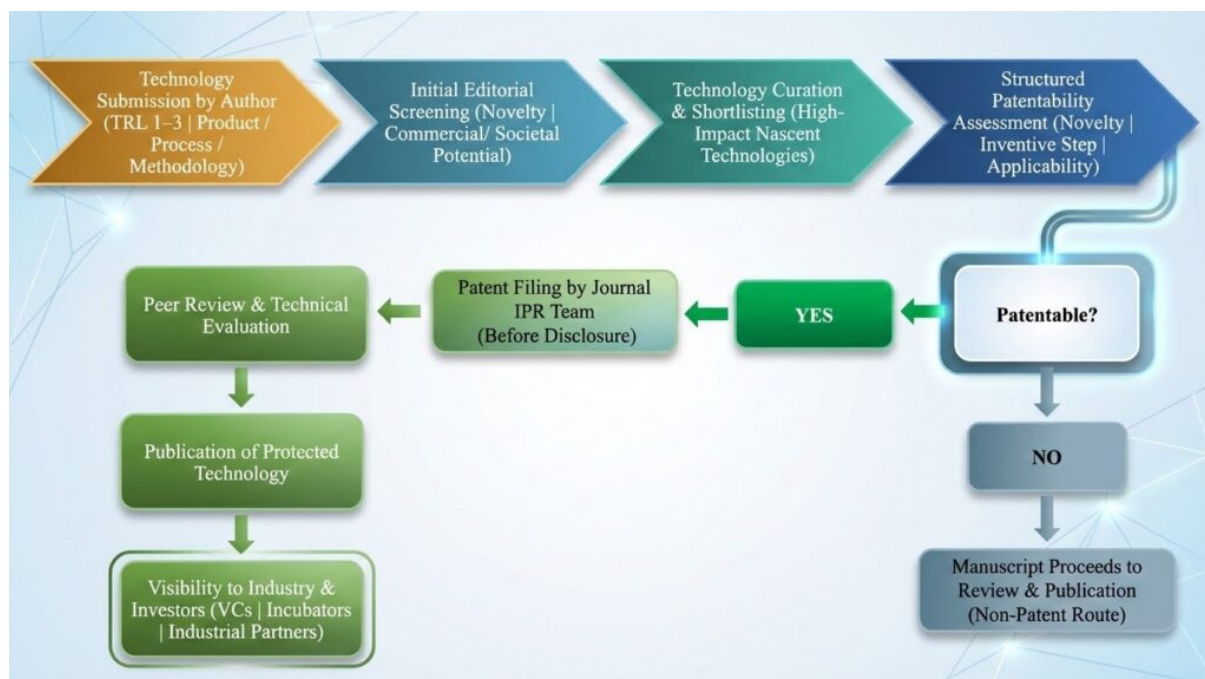
The *Journal of Commercializable Technologies* follows a unique integrated model in which authors receive both **manuscript publication and patent protection under the same platform**. Upon submission of an research article or an early-stage technology (TRL 1–3), the manuscript undergoes initial editorial screening to evaluate novelty and commercialization potential. Promising submissions are curated and subjected to a structured patentability assessment based on novelty, inventive step, and industrial applicability.

If the technology is found to be patentable, the journal’s IPR team facilitates **patent filing prior to public disclosure**, ensuring protection of the innovation. The manuscript then proceeds through peer review and is published as a **protected technology**, providing both academic recognition and intellectual property rights.

If the submission is not considered patentable, it continues through the standard peer review process and is published as a regular manuscript.

Through this unified approach, authors benefit from **simultaneous intellectual property protection and scholarly publication**, along with enhanced visibility to industry, investors, incubators, and potential commercialization partners.

- **Publication Methodology Flow**



Article Processing Charges (APC)

An Article Processing Charge (APC) of **INR 8,000** is applicable for manuscripts submitted under the following categories: Research Articles, Review Articles, Short Communications, Patent Landscapes, Patentable Ideas / Innovation Disclosures, Patent Assessment, Technology Case Studies, and Breakthrough Technologies. This fee covers editorial processing, peer review, and publication.

For authors opting for integrated intellectual property support, a consolidated APC of **INR 14,000** is applicable. This includes **filing of a patent application followed by publication** of the article under any of the above categories in the *Journal of Commercializable Technologies*. This unique model enables authors to secure both **patent protection and scholarly publication under a single platform**.

Publication Categories

1. Research Articles

- Full-length original research papers
- Must include novel experimental or theoretical findings
- Standard structure: Abstract, Introduction, Methodology, Results, Discussion, Conclusion

2. Review Articles/Patent Landscapes

- Comprehensive and critical analysis of existing literature/patent publications
- Should identify research gaps and future directions
- Can include systematic reviews or meta-analyses

3. Short Communications / Patentable Ideas / Innovation Disclosures

- Novel concepts with strong potential for patenting
- Patentable Ideas/Innovation disclosures will be published only after filing a provisional patent application by our team
- Focus on originality, feasibility, and industrial applicability

4. Breakthrough Technologies / Patent Assessment

- Evaluation of emerging or recently granted patents
- Covers technological significance, novelty, commercial potential, and limitations
- May include expert commentary on disruptive innovations

5. Technology Case Studies

- Real-world applications of technologies, patents, or processes
- Industry-academia collaboration examples
- Technology transfer success/failure analysis