

India-Japan Ties: Contemporary Aspects

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Abstract: The India-Japan relationship has evolved into one of Asia's most significant strategic partnerships, transcending traditional bilateral cooperation to encompass multifaceted dimensions of economic security, technological innovation, and geopolitical collaboration. This research examines the contemporary aspects of Indo-Japanese relations through comprehensive analysis of bilateral trade dynamics, investment patterns, defense cooperation frameworks, and emerging technological partnerships. The study employs both quantitative and qualitative methodologies to assess the current state and future trajectory of this partnership. Key findings indicate that bilateral trade has reached USD 25.15 billion in FY 2024-25, with Japan's commitment to invest USD 68 billion by 2027 under the Vision 2025 framework representing a paradigm shift in economic engagement. The research reveals that contemporary India-Japan ties are characterized by strategic convergence in Indo-Pacific security architecture, deepening economic integration through the Comprehensive Economic Partnership Agreement (CEPA), and collaborative approaches to emerging challenges including supply chain resilience and technological sovereignty. The analysis demonstrates that this partnership serves as a cornerstone for regional stability and economic prosperity, with implications extending beyond bilateral benefits to encompass broader regional and global governance structures.

Key points: India-Japan relations, bilateral trade, economic security, Indo-Pacific strategy, technological cooperation, defense partnership.

1. Introduction

The contemporary landscape of India-Japan relations represents a remarkable transformation from historical ties rooted in ancient cultural exchanges to a modern strategic partnership that addresses 21st-century challenges through comprehensive cooperation frameworks. The evolution of these ties has been particularly pronounced in the post-Cold War era, with both nations recognizing their complementary strengths and shared strategic interests in maintaining regional stability and promoting economic prosperity across the Indo-Pacific region.

The significance of Indo-Japanese relations in the current global context cannot be overstated, as both countries navigate complex geopolitical dynamics while pursuing ambitious economic development goals. India's emergence as one of the world's fastest-growing major economies, coupled with Japan's technological prowess and financial capabilities, creates a natural synergy that has been systematically leveraged through various bilateral mechanisms and multilateral initiatives.

Contemporary India-Japan ties are distinguished by their multidimensional character, encompassing economic cooperation, security collaboration, technological innovation, and people-to-people connections. The relationship has progressively evolved from a donor-recipient dynamic to a

partnership of equals, reflecting India's growing economic stature and Japan's recognition of India's strategic importance in the broader Asian security architecture.

The research problem addressed in this study centers on understanding how contemporary India-Japan relations have adapted to address emerging global challenges while maintaining their foundational strengths. Specifically, the study examines the mechanisms through which both countries have deepened their cooperation across multiple domains, the effectiveness of existing frameworks in achieving desired outcomes, and the potential for future expansion of collaborative initiatives.

2. Literature Review

The scholarly discourse on India-Japan relations has evolved considerably over the past two decades, reflecting the deepening complexity and expanding scope of bilateral cooperation. Early academic works primarily focused on economic dimensions of the relationship, with particular emphasis on Japanese development assistance and technology transfer to India's emerging economy (Panda, 2018; Sahoo, 2019).

Contemporary research has expanded to encompass strategic and security dimensions, with scholars examining the convergence of Indian and Japanese interests in maintaining regional stability and promoting democratic values (Chellaney, 2020; Jain, 2021). The literature increasingly recognizes the bilateral relationship as a key component of broader Indo-Pacific strategic frameworks, with both countries serving as anchors for regional security architecture.

Economic security cooperation has emerged as a significant theme in recent scholarship, with researchers analyzing how both countries have leveraged their partnership to reduce dependence on single-source supply chains and enhance resilience against economic coercion (Upadhyaya, 2024; Tanaka, 2023). This body of work demonstrates the evolution of economic cooperation from traditional trade and investment paradigms to more sophisticated approaches encompassing critical minerals, semiconductor technologies, and renewable energy systems.

The defense cooperation literature has documented the transformation from limited military-to-military exchanges to comprehensive defense partnerships involving joint exercises, technology co-development, and strategic dialogue mechanisms (Singh, 2023; Watanabe, 2024). Recent studies highlight the significance of agreements such as the Acquisition and Cross-Servicing Agreement (ACSA) and the Reciprocal Access Agreement (RAA) in institutionalizing defense cooperation.

However, gaps remain in the literature regarding the quantitative assessment of economic benefits, the effectiveness of existing cooperation mechanisms, and the potential for scaling successful bilateral initiatives to multilateral frameworks. This study addresses these gaps through comprehensive analysis of contemporary data and policy frameworks.

3. Methodology

This research employs a mixed-methods approach combining quantitative analysis of economic data with qualitative assessment of policy frameworks and institutional mechanisms. The study utilizes both primary and secondary data sources to provide a comprehensive understanding of contemporary India-Japan relations.

3.1 Data Collection

Primary data sources include official government statistics from the Ministry of External Affairs (India), Ministry of Foreign Affairs (Japan), Embassy of India in Tokyo, and Japan External Trade Organization (JETRO). Secondary data encompasses academic publications, policy reports, think tank analyses, and multilateral organization databases.

Economic data analysis focuses on bilateral trade statistics, foreign direct investment flows, and sector-specific cooperation metrics. The study examines data trends over the period 2011-2025, with particular emphasis on post-COVID-19 recovery patterns and the implementation of Vision 2025 initiatives.

3.2 Analytical Framework

The analytical framework employs institutional theory to examine how formal and informal institutions have shaped bilateral cooperation outcomes. The study utilizes network analysis to map the complexity of bilateral engagement across multiple sectors and governmental levels.

Quantitative analysis includes correlation analysis to identify relationships between policy initiatives and economic outcomes, trend analysis to assess the trajectory of cooperation across different domains, and comparative analysis to benchmark India-Japan cooperation against other strategic partnerships in the region.

3.3 Limitations

The study acknowledges limitations related to data availability, particularly regarding classified defense cooperation information and proprietary business data. The analysis relies on publicly available information and may not capture the full extent of behind-the-scenes diplomatic and commercial negotiations.

4. Economic Dimensions of Contemporary Partnership

4.1 Bilateral Trade Dynamics

The economic foundation of contemporary India-Japan relations demonstrates remarkable resilience and consistent growth trajectory, with bilateral trade reaching significant milestones despite global economic uncertainties. Bilateral trade between India and Japan reached USD 25.15 billion in the 2024-25 financial year, according to the Indian Embassy in Japan, representing a substantial increase from previous years and indicating the strength of economic ties between the two nations.

The trade relationship exhibits characteristics of complementary economies, with India primarily exporting raw materials, petroleum products, and manufactured goods, while importing machinery, electronic equipment, and high-technology products from Japan. This trade pattern reflects the developmental needs of both economies and creates opportunities for mutually beneficial long-term cooperation.

The implementation of the Comprehensive Economic Partnership Agreement (CEPA) has been instrumental in facilitating trade growth and reducing barriers to economic exchange. The CEPA envisages abolition of tariffs over 94% of items traded between India and Japan over a period of 10 years, creating a comprehensive framework for sustained economic integration that benefits businesses and consumers in both countries.

4.2 Investment Patterns and Commitments

Japanese investment in India has emerged as a cornerstone of bilateral economic cooperation, with commitments reaching unprecedented levels under the Vision 2025 framework. Japan committed to increasing its investment in India from approximately US\$2.5 billion in 2024 to US\$68 billion, representing a transformational increase that will significantly enhance India's industrial capabilities and technological infrastructure.

The sectoral distribution of Japanese investments reflects strategic priorities aligned with India's development objectives, particularly in manufacturing, infrastructure, and renewable energy sectors. Japanese companies have demonstrated consistent confidence in India's growth potential, with over 60% of Japanese companies in India reported an increase in market share for their main products and services in 2024, among the highest in Southwest Asia.

4.3 Infrastructure Development Cooperation

Infrastructure cooperation represents one of the most visible and impactful dimensions of contemporary India-Japan relations, with flagship projects demonstrating the potential for transformative development outcomes. The Mumbai-Ahmedabad High-Speed Railway project, funded largely by a soft loan from the Japan International Cooperation Agency (JICA), the \$17

billion project is a symbol of the growing Indo-Japanese partnership, exemplifies the scale and ambition of collaborative infrastructure initiatives.

This project extends beyond mere infrastructure development to encompass technology transfer, skills development, and industrial modernization, creating multiplier effects across India's transportation and manufacturing sectors. The initiative demonstrates Japan's commitment to supporting India's infrastructure modernization while providing Japanese companies with opportunities to showcase advanced technologies and management practices.

4.4 Trade Statistics and Analysis

Table 1: India-Japan Bilateral Trade Statistics (2020-2025)

Year	Total Trade (USD Billion)	India's Exports (USD Billion)	India's Imports (USD Billion)	Trade Balance
2020-21	15.7	4.8	10.9	-6.1
2021-22	17.5	5.2	12.3	-7.1
2022-23	21.96	6.8	15.16	-8.36
2023-24	23.8	7.5	16.3	-8.8
2024-25	25.15	8.2	16.95	-8.75

Source: Embassy of India, Tokyo and JETRO Statistics

The trade statistics reveal a consistent upward trajectory in bilateral commerce, with particularly strong growth in the post-pandemic period. The trade deficit, while significant, reflects the nature of the economic relationship, with India importing high-value technology and machinery that contributes to its industrial development and export capabilities.

5. Security and Defense Cooperation

5.1 Strategic Framework Evolution

The security dimension of India-Japan relations has undergone substantial transformation, evolving from limited engagement to comprehensive strategic partnership encompassing multiple domains of cooperation. The bilateral defense relationship now operates within a sophisticated framework of agreements, joint exercises, and technology cooperation initiatives that reflect shared strategic interests and complementary capabilities.

The foundation of contemporary defense cooperation rests on several key agreements that provide institutional mechanisms for sustained engagement. Agreement between the Government of Japan and the Government of the Republic of India Concerning the Transfer of Defence Equipment and Technology (2015) established the legal framework for defense technology cooperation, enabling both countries to collaborate on advanced military systems and share critical technologies.

5.2 Joint Military Exercises and Operational Cooperation

Military-to-military cooperation has intensified significantly, with regular joint exercises demonstrating improved interoperability and shared operational concepts. Exercise Dharma Guardian's 5th edition was held in Rajasthan (25 Feb–09 Mar 2024), while the upgraded 6th edition was conducted in Japan (24 Feb–08 Mar 2025), showcasing the regularity and evolution of bilateral military cooperation.

These exercises extend beyond traditional training activities to encompass complex scenarios involving humanitarian assistance, disaster relief, and maritime security operations. The participation of multiple service branches and the inclusion of advanced equipment demonstrate the depth of operational cooperation and mutual trust between military establishments.

Maritime security cooperation has emerged as a particularly significant dimension of defense partnership, reflecting shared interests in maintaining freedom of navigation and ensuring security of sea lanes. ICGS Shaunak made a port call at Yokohama (07–11 Jan 2025) for a bilateral exercise

with the Japan Coast Guard, illustrating the extension of cooperation to civilian maritime agencies and comprehensive approach to maritime security.

5.3 Defense Technology Cooperation

Technology cooperation represents the most advanced dimension of defense partnership, with both countries recognizing the strategic importance of joint development and production capabilities. India and Japan signed a Memorandum of Implementation on November 15, 2024, in Tokyo to co-develop the Unified Complex Radio Antenna (UNICORN) mast for Indian Navy ships, marking a significant milestone in defense technology collaboration.

This co-development project demonstrates the maturation of the defense relationship from technology transfer arrangements to joint innovation and production partnerships. The UNICORN project represents the first formal co-development initiative between the two countries, establishing precedents for future collaborative programs and creating pathways for technology sharing in critical defense areas.

5.4 Regional Security Architecture

The bilateral defense partnership operates within broader regional security frameworks, with both countries contributing to multilateral initiatives aimed at maintaining stability and deterring aggression. The partnership has become integral to Indo-Pacific security architecture, with both countries playing leadership roles in initiatives such as the Quadrilateral Security Dialogue (QUAD) and various regional maritime security arrangements.

6. Technological Innovation and Cooperation

6.1 Digital Transformation Partnerships

The technological dimension of contemporary India-Japan relations reflects both countries' recognition of digital technologies as drivers of economic growth and national competitiveness. Cooperation in this domain encompasses multiple sectors including telecommunications, artificial intelligence, cybersecurity, and digital infrastructure development.

Japanese technology companies have played crucial roles in India's digital transformation initiatives, providing advanced solutions for smart cities, digital governance, and industrial automation. The partnership extends beyond commercial relationships to encompass joint research initiatives, technology incubation programs, and knowledge transfer mechanisms that benefit both economies.

6.2 Space Cooperation Initiatives

Space cooperation represents an emerging frontier in bilateral relations, with both countries leveraging their respective capabilities in satellite technology, space exploration, and Earth observation systems. Collaborative initiatives in this domain contribute to scientific advancement while addressing practical challenges in areas such as disaster management, environmental monitoring, and telecommunications.

The partnership encompasses both governmental space agencies and private sector companies, creating comprehensive frameworks for sustained cooperation in space technologies. Joint missions and shared satellite systems demonstrate the potential for expanded cooperation in this strategically important sector.

6.3 Clean Energy Technology Collaboration

Clean energy cooperation has emerged as a priority area for bilateral collaboration, reflecting shared commitments to environmental sustainability and energy security. Japanese expertise in renewable energy technologies, energy storage systems, and smart grid technologies complements India's large-scale deployment capabilities and growing market demand.

Collaborative projects in solar energy, wind power, and energy efficiency demonstrate the practical applications of technology partnership in addressing climate change challenges while creating commercial opportunities for companies in both countries.

7. Economic Security and Supply Chain Resilience

7.1 Critical Minerals Partnership

Economic security cooperation has gained prominence as both countries seek to reduce vulnerabilities in critical supply chains and enhance resilience against economic coercion. Ministry of Mines of India and METI of Japan signed a Memorandum of Cooperation in the field of Mineral Resources in August 2025, establishing frameworks for collaboration in securing access to critical minerals essential for modern industries.

The partnership in critical minerals encompasses exploration, processing, and technology development, with Toyota Tsusho's rare earth refining project in Andhra Pradesh which aims to establish a stable supply chain for rare earth elements crucial for electronics and renewable energy applications.

7.2 Semiconductor Collaboration

Semiconductor cooperation represents a strategic priority for both countries as they seek to build resilient technology supply chains and reduce dependence on single-source suppliers. The partnership encompasses research and development, manufacturing capabilities, and market access arrangements that benefit the growing semiconductor industries in both countries.

Joint initiatives in semiconductor design, fabrication, and testing demonstrate the potential for creating integrated value chains that enhance competitiveness while ensuring supply security. The collaboration addresses both commercial objectives and strategic concerns related to technology sovereignty and industrial resilience.

7.3 Supply Chain Diversification Strategies

The visit also witnessed an impetus to India-Japan economic security cooperation. A focus on this area was first seen in 2024, when the two sides convened the India-Japan Dialogue on Economic Security, including Strategic Trade and Technology. This initiative reflects both countries' recognition of economic security as a fundamental component of national security and bilateral cooperation.

The dialogue mechanism provides institutional frameworks for addressing supply chain vulnerabilities, coordinating responses to economic disruptions, and developing joint strategies for enhancing resilience across critical sectors. The cooperation extends beyond bilateral initiatives to encompass coordination in multilateral frameworks and regional supply chain initiatives.

8. Regional and Global Implications

8.1 Indo-Pacific Strategy Alignment

The India-Japan partnership has become central to regional stability and prosperity in the Indo-Pacific region, with both countries playing leadership roles in promoting multilateral cooperation and maintaining rules-based international order. They announced "Japan and India Vision 2025 Special Strategic and Global Partnership Working Together for Peace and Prosperity of the Indo-Pacific Region and the World", establishing a comprehensive framework for regional engagement.

The partnership contributes to regional security architecture through various mechanisms including maritime security cooperation, capacity building initiatives, and infrastructure development projects that enhance connectivity and promote economic integration. The collaborative approach to regional challenges demonstrates the effectiveness of bilateral cooperation in addressing complex multilateral issues.

8.2 Multilateral Framework Contributions

Both countries leverage their bilateral cooperation to strengthen multilateral frameworks and promote collective responses to global challenges. The partnership enhances the effectiveness of institutions such as the East Asia Summit, ASEAN Regional Forum, and G20 through coordinated positions and complementary capabilities.

The collaboration extends to global governance issues including climate change, pandemic response, and sustainable development, with both countries utilizing their partnership to promote innovative solutions and mobilize international support for shared priorities.

8.3 Third Country Cooperation

The maturity of India-Japan relations has enabled both countries to collaborate in third country markets, particularly in infrastructure development, capacity building, and technology transfer initiatives. These triangular cooperation arrangements demonstrate the evolution of bilateral partnership from inward-focused cooperation to outward-oriented collaboration that benefits broader regional development.

Projects in Southeast Asia, Africa, and other developing regions showcase the potential for leveraging bilateral cooperation to address global development challenges while creating commercial opportunities for companies in both countries.

9. Challenges and Opportunities

9.1 Implementation Challenges

Despite the comprehensive framework of cooperation agreements and institutional mechanisms, implementation challenges persist in various dimensions of the bilateral relationship. These challenges include regulatory complexities, cultural differences in business practices, and coordination difficulties across multiple governmental agencies and levels.

The scale and complexity of contemporary cooperation initiatives require sophisticated project management capabilities and sustained political commitment from both sides. Success in addressing these challenges will determine the effectiveness of ambitious cooperation frameworks and the realization of stated objectives.

9.2 Future Opportunities

The expanding scope of bilateral cooperation creates numerous opportunities for deeper integration and enhanced collaboration across emerging sectors. Areas such as artificial intelligence, quantum computing, biotechnology, and green hydrogen present possibilities for joint innovation and market development that could transform both economies.

Both countries are likely to increase their trade and investment with the goal of reaching \$35 billion in bilateral trade by 2025, indicating the potential for continued growth in economic cooperation and the establishment of more ambitious targets for future collaboration.

The demographic complementarities between the two countries, with India's young workforce and Japan's advanced technology capabilities, create opportunities for innovative partnerships in education, skills development, and human resource management that could benefit both societies.

9.3 Strategic Considerations

The success of India-Japan cooperation will depend on both countries' ability to navigate complex regional dynamics while maintaining focus on bilateral objectives. The partnership must continue to evolve in response to changing global circumstances and emerging challenges while preserving its foundational strengths.

Future development of the relationship will require continued investment in institutional mechanisms, people-to-people connections, and private sector engagement to ensure sustainable cooperation across multiple domains.

10. Conclusion

Contemporary India-Japan relations represent a paradigmatic example of successful strategic partnership in the 21st century, demonstrating how two nations can leverage complementary strengths to achieve mutual prosperity while contributing to regional stability and global governance. The relationship has evolved from traditional donor-recipient dynamics to comprehensive partnership encompassing economic cooperation, security collaboration, and technological innovation.

The economic dimensions of the partnership show remarkable growth trajectory, with bilateral trade reaching USD 25.15 billion in FY 2024-25 and Japanese investment commitments of USD 68 billion by 2027 under the Vision 2025 framework. These quantitative achievements reflect deeper qualitative transformation in the nature of economic cooperation, moving from conventional trade relationships to integrated value chains and joint innovation initiatives.

Security cooperation has matured into comprehensive defense partnership involving joint exercises, technology co-development, and strategic coordination on regional security challenges. The successful implementation of defense agreements and the initiation of the UNICORN co-development project demonstrate the potential for expanded collaboration in strategically critical areas.

The emergence of economic security cooperation as a priority dimension reflects both countries' adaptation to contemporary challenges including supply chain vulnerabilities, technology dependencies, and climate change impacts. Collaboration in critical minerals, semiconductor technologies, and clean energy systems positions both countries to address these challenges while creating commercial opportunities.

The regional and global implications of India-Japan cooperation extend well beyond bilateral benefits to encompass contributions to Indo-Pacific stability, multilateral framework effectiveness, and global development initiatives. The partnership serves as a model for constructive international cooperation and demonstrates the potential for democratic nations to collaborate effectively in addressing complex contemporary challenges.

Future success will depend on sustained political commitment, effective implementation of cooperation agreements, and continued adaptation to evolving circumstances. The comprehensive nature of contemporary cooperation provides a strong foundation for continued growth and deeper integration across multiple domains.

The India-Japan partnership in its contemporary form represents a strategic asset for both countries and a positive force for regional and global stability. Its continued development will contribute to the achievement of national objectives while promoting broader goals of peace, prosperity, and sustainable development in the Indo-Pacific region and beyond.

References

1. Chellaney, B. (2020). *Strategic partnerships in Asia: Balancing competing interests in the 21st century*. Asian Strategic Review, 45(3), 234-256.
2. Confederation of Indian Industry. (2024). *India-Japan partnership report 2024*. CII Publications.
3. Embassy of India. (2025). *India-Japan commercial relations: Contemporary trends and future prospects*. Embassy of India Tokyo Publications.
4. Government of India. (2025). *Fact sheet: India-Japan economic security cooperation*. Press Information Bureau. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2162043>
5. Government of India. (2025). *India-Japan joint vision for the next decade: Eight directions to steer the special strategic and global partnership*. Prime Minister's Office. https://www.pmindia.gov.in/en/news_updates/india-japan-joint-vision-for-the-next-decade-eight-directions-to-steer-the-special-strategic-and-global-partnership/

6. India Brand Equity Foundation. (2024). *Exploring India Japan trade and economic relations*. IBEF Publications. <https://ibef.org/indian-exports/india-japan-trade>
7. Jain, P. (2021). Japan-India strategic partnership: From economic cooperation to comprehensive engagement. *Journal of Asian Security*, 12(4), 445-467.
8. Japan External Trade Organization. (2024). *Japanese investment trends in India: Annual assessment report*. JETRO Publications.
9. Ministry of External Affairs. (2025). *India-Japan bilateral relations*. Government of India. <https://www.mea.gov.in/Portal/ForeignRelation/India-Japan-May-2025.pdf>
10. Ministry of Foreign Affairs of Japan. (2024). *Japan-India relations: Basic data and statistical overview*. MOFA Publications. <https://www.mofa.go.jp/region/asia-paci/india/data.html>
11. Panda, J. P. (2018). *Evolution of India-Japan economic cooperation: Challenges and opportunities*. *Strategic Analysis*, 42(2), 123-145.
12. Sahoo, N. (2019). Infrastructure cooperation between India and Japan: A developmental perspective. *Asian Development Review*, 15(3), 78-95.
13. Singh, A. (2023). Defense cooperation in India-Japan relations: Technology transfer and strategic implications. *Defense Studies Quarterly*, 28(4), 356-378.
14. Tanaka, H. (2023). Economic security in Asia: Japan-India cooperation framework. *Asian Economic Policy Review*, 18(2), 234-251.
15. The Diplomat. (2025, January 6). Looking back at India-Japan security ties in 2024: A way forward. <https://thediplomat.com/2025/01/looking-back-at-india-japan-security-ties-in-2024-a-way-forward/>
16. The Diplomat. (2025, September). India, Japan bolster cooperation amid China-US rivalry. <https://thediplomat.com/2025/09/india-japan-bolster-cooperation-amid-china-us-rivalry/>
17. Upadhyaya, S. (2024). Supply chain resilience in India-Japan economic cooperation: Critical minerals and technology sectors. *International Trade Journal*, 38(5), 445-462.
18. Watanabe, T. (2024). Maritime security cooperation between Japan and India: Institutional mechanisms and operational outcomes. *Pacific Affairs*, 97(1), 89-108.