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Original Article

IMPACT OF FDI IN INFRASTRUCTURE ON ECONOMIC GROWTH: EVIDENCE FROM INDIA

Avni Thakkar[1] & Pravin Jadhav[2]
[1]Ph.D Scholer & [2]Associate Professor
[1]Humanities and Social Science, Institute of Infrastructure, Technology, Research and Management (IIT RAM),
[2]HOD Humanities and Social Science, Institute of Infrastructure, Technology, Research and Management (IIT RAM),

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***Corresponding Author:* Avni Thakkar**

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Abstract:

The central objective of this study is to critically evaluate the contribution of Foreign Direct Investment (FDI) to the expansion and modernization of India's infrastructure sector. Current projections indicate that India's infrastructure industry will necessitate capital outlays in the range of US$ 1.7–2.2 trillion by 2030. Infrastructure constitutes the foundational architecture of economic development, underpinning productivity, competitiveness, and long-term growth trajectories. Although Public-Private Partnership (PPP) frameworks have facilitated the initiation of numerous projects, their scale and scope remain inadequate to bridge the immediate financing and capacity gaps.

FDI inflows into India have exhibited exponential growth, increasing nearly twentyfold between FY2001 and FY2025. Data from the Department for Promotion of Industry and Internal Trade (DPIIT) reveal that cumulative FDI inflows amounted to ₹99,08,749 crore (US$ 1.12 trillion) during the period 2000–2025. Empirical analyses conducted by the National Institute of Public Finance and Policy (NIPFP) estimate a GDP multiplier effect of 2.5–3.5 per rupee invested in infrastructure, attributable to heightened demand for labor, intermediate goods, and capital expenditure.

Consequently, FDI has emerged as a pivotal driver of infrastructural transformation, catalyzing substantial advancements across critical domains such as national highways, railways, airports, and seaports. These sectors have demonstrated accelerated development in recent years, underscoring the strategic role of FDI in augmenting India's infrastructural capacity and reinforcing its economic growth trajectory.

Keywords: FDI, Infrastructure, India

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Introduction:

Foreign Direct Investment (FDI) has emerged as a cornerstone of India's economic development, channelling external capital into sectors such as manufacturing, infrastructure, transportation, telecommunications, and energy. By supplementing domestic investment, FDI enables the transfer of advanced technologies, managerial expertise, and global market integration, thereby accelerating structural transformation within the economy. The Committee on the Compilation of FDI in India (2002) formally defines FDI as a cross-border investment mechanism through which residents of one country acquire ownership stakes in productive assets of enterprises located in another country, thereby exercising significant influence or control over production processes and distribution networks. Scholars such as Dunning (1993) who advanced the eclectic paradigm of international production, Balasubramanyam, Salisu, & Sapsford (1996), who examined FDI's role in export-oriented growth, and Nagaraj (2003), who analysed FDI trends in India's post-liberalization era, emphasize that FDI differs fundamentally from portfolio investment because of its strategic role in shaping industrial organization and supporting long-term growth trajectories in host economies.

Literature Review:

Foreign Direct Investment (FDI) remains a central element of economic development strategies, particularly in emerging markets where domestic capital constraints necessitate foreign sourcing of resources for infrastructure and industrial growth. The early theoretical underpinnings of FDI drawn from Dunning's Eclectic Paradigm highlight the importance of location-specific advantages such as infrastructure quality, market size, and institutional environment as core determinants of multinational investment decisions (Dunning, 1993). This theoretical insight has guided extensive empirical work, revealing that infrastructure quality positively influences FDI inflows by lowering operational costs, improving connectivity, and enhancing productivity (Islam & Beloucif, 2023; Sahoo, 2012). Infrastructure—both physical (e.g., transport, energy) and digital (e.g., internet connectivity)—emerges consistently as an essential determinant; studies demonstrate that improvements in telecommunications and high-speed internet significantly raise FDI, particularly in service-oriented sectors (Mensah & Traore, 2023; Tsaurai, 2025).

Beyond physical and digital infrastructure, the wider FDI literature systematically identifies additional determinants such as market size, trade openness, macroeconomic stability, labour cost, institutional quality, and regulatory environment (Islam & Beloucif, 2023; OECD, 2019). A systematic review of over 100 empirical studies highlights that market size is one of the most robust predictors of FDI, followed by trade liberalization and infrastructure quality, while labour costs and human capital conditions also play significant roles (Islam & Beloucif, 2023). Similarly, broad conceptual reviews underscore political stability, cultural and social networks, and investment climate as critical determinants influencing location choice of multinational enterprises (Feng & Wang, 2008).

Institutional determinants, including governance quality and regulatory effectiveness, significantly moderate the impact of infrastructure on FDI inflows. Paul and Jadhav (2019) find that infrastructure quality, trade costs, rule of law, political stability, regulatory quality, and control of corruption are significant determinants of FDI in 24 emerging economies, illustrating the interplay between infrastructure and institutional conditions in shaping investment flows. In a related analysis of BRICS economies, Jadhav and Katti (2012) highlight macroeconomic stability, political stability, government effectiveness, regulatory quality, control of corruption, and voice and accountability as significant institutional and political determinants of FDI, reinforcing that infrastructure alone cannot fully attract foreign capital without supportive institutional frameworks.

Empirical studies from specific regional contexts provide further insights. In South Asia, infrastructure development, trade openness, and economic reforms are shown to significantly attract FDI, with panel causality analyses revealing a strong infrastructure–FDI relationship alongside labour force and market size effects (Sahoo, 2012). Indian state-level analyses find that governance and infrastructure indices significantly explain variation in FDI distribution, indicating that regional heterogeneity in investor attractiveness can be explained by differences in these determinants (Madan, 2014). National policy analyses for India further suggest that sectoral policy reforms and fiscal measures influence FDI flows into infrastructure sectors such as telecommunications, construction, and transport, though some infrastructure segments (e.g., ports and energy) remain less successful in attracting foreign capital without targeted reforms (Government Policies and FDI in India, 2025).

Other determinants highlighted in the literature include FDI liberalization policies and regulatory restrictiveness, where reductions in statutory barriers are associated with increased bilateral FDI, particularly in services (OECD, 2019). Macro-economic factors such as exchange rates, inflation, and economic growth prospects also influence FDI flows, albeit with mixed evidence across contexts (IMF, 2016). Additionally, institutional quality measured by control of corruption, government effectiveness, and rule of law positively affects FDI, with effects varying between developed and developing countries (Sabir, Rafique, & Abbas, 2019). Overall, the literature underscores that while infrastructure quality is a crucial determinant of FDI, its role is embedded within a broader set of economic, institutional, and policy factors that jointly shape multinational investment decisions.

Studies on FDI and infrastructure consistently show that well-developed transport, power, telecommunications, and financial systems significantly enhance a host country's attractiveness to foreign investors by lowering costs, reducing risk, and improving market access (Razaq & Khan, 2017; Sahoo & Dash, 2012; Shah, 2014; Wheeler & Mody, 1992; World Bank, various years). Evidence from developing and emerging economies further indicates that infrastructure is often a binding constraint, with FDI responding strongly once a basic threshold of quality and coverage is reached, and with both "hard" (physical) and "soft" (institutional and human capital) infrastructure playing important roles (Mwangi, 2018; Noor & Siddiqi, 2010; Rao, 2014; Sahoo & Dash, 2009, 2012; Shah, 2014). In Africa and South-Eastern Europe, empirical studies underline that macroeconomic stability, infrastructure, and institutional quality jointly shape FDI inflows and their linkage with domestic investment and growth, suggesting that infrastructure is part of a broader investment climate (Lazaj, 2015; Mlambo & Oshikoya, 2001; Ndikumana & Verick, 2008). The literature also highlights possible bidirectional causality, where infrastructure investment attracts FDI and FDI, in turn, contributes to further infrastructure development, especially in liberalised infrastructure sectors such as power and telecommunications (Mwangi, 2018; Noor & Siddiqi, 2010; Razaq & Khan, 2017; Shah, 2014; World Bank, various years).

Role of FDI:

Foreign Direct Investment (FDI) serves as a pivotal driver of economic development in India by stimulating employment generation, facilitating cross-border technology transfer, and enhancing factor productivity. In addition to augmenting domestic capital formation, FDI broadens access to international markets and contributes to macroeconomic stabilization by bridging financing gaps during periods of constrained liquidity.

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The sectoral distribution of FDI has exerted a transformative impact on real estate, port infrastructure, and renewable energy, thereby consolidating India's emergence as a leading global construction and infrastructure hub. These inflows have not only accelerated project execution but have also reinforced structural modernization across critical industries.

The following table presents the aggregate FDI inflow data for the period 2000–01 to 2024–25, offering a longitudinal perspective on the trajectory of foreign investment and its cumulative role in advancing India's developmental agenda.

RBI's Inflow Data							
As per International Practices							
RBI's Monthly Bulletin date: 21.05.2025							
							(Amount USD Million)
		Equity Capital					
Sr.No.	**Financial Year (April-March)**	**Government Route/Automatic Route/Acquisition Route**	**Equity Capital of Unicorporated Bodies**	**Re-Invested Earning+**	**Other Capital +**	**Total FDI Inflow**	**% Avg Growth Against Previous Year**
FINANCIAL YEARS FROM 2000-01 TO 2024-25							
1	2000-01	2339	61	1350	279	4029	
2	2001-02	3904	191	1645	390	6130	(+) 52%
3	2002-03	2574	190	1833	438	5035	(-) 18%
4	2003-04	2197	32	1460	633	4322	(-) 14%
5	2004-05	3250	528	1904	369	6051	(+) 40%
6	2005-06	5540	435	2760	226	8961	(+) 48%
7	2006-07	15585	896	5828	517	22826	(+) 155%
8	2007-08	24573	2291	7679	300	34843	(+) 53%
9	2008-09	31364	702	9030	777	41873	(+) 20%
10	2009-10	25606	1540	8668	1931	37745	(-) 10%
11	2010-11	21376	874	11939	658	34847	(-) 08%
12	2011-12	34833	1022	8206	2495	46556	(+) 34%
13	2012-13	21825	1059	9880	1534	34298	(-) 26%
14	2013-14	24299	975	8978	1794	36046	(+) 5%
15	2014-15	30933	978	9988	3249	45148	(+) 25%
16	2015-16	40001	1111	10413	4034	55559	(+) 23%
17	2016-17	43478	1223	12343	3176	60220	(+) 8%
18	2017-18	44857	664	12542	2911	60974	(+) 1%
19	2018-19	44366	689	13672	3274	62001	(+) 2%
20	2019-20	49977	1757	14175	8482	74391	(+) 20%
21	2020-21	59636	1452	16935	3950	81973	(+) 10%
22	2021-22	58773	910	19347	5805	84835	(+) 3%
23	2022-23	46034	1566	19105	4650	71355	(-) 16%
24	2023-24	44423	1394	19768	5694	71279	(-) 1%
25	2024-25	50018	976	23545	6505	81043	

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	(P)						
CUMULATIVE TOTAL		731761	23516	252993	64071	1072340	
(from April 2000 March 2025)							

Objective:

This study seeks to critically investigate the role of Foreign Direct Investment (FDI) in the infrastructure sector and to assess its implications for national economic growth. The specific research objectives are delineated as follows:

1. **To analyze sectoral trends in FDI inflows** across diverse domains of the Indian economy.
2. **To conduct a comprehensive SWOT analysis** of FDI within the context of India's economic framework, identifying structural strengths, inherent weaknesses, emerging opportunities, and potential threats.
3. **To examine** the empirical relationship between FDI and India's GDP growth,

Objective 1: To Analyse Sectoral Trends in FDI

In the Indian context, Foreign Direct Investment (FDI) exhibits pronounced sectoral heterogeneity, with notable expansion in services, particularly information technology (IT) and telecommunications. Strategic capital inflows from multinational corporations such as Google and Facebook into Reliance Jio exemplify the consolidation of India's digital ecosystem and underscore the sector's attractiveness to global investors.

The manufacturing sector has also emerged as a significant recipient of FDI, facilitated by policy initiatives such as *Make in India*, which aim to enhance domestic production capacity and integrate India into global value chains. Prominent investments, including Foxconn's entry into electronics manufacturing, highlight the sector's potential for technology transfer and industrial upgrading.

Energy, with a specific emphasis on renewable sources, constitutes another critical locus of FDI activity. International firms have directed substantial investments toward solar and wind energy projects, aligning with India's long-term clean energy transition and sustainability objectives.

Furthermore, transport and infrastructure have witnessed escalating FDI inflows, particularly in metro rail systems, airport modernization, and logistics hubs. These investments reflect India's strategic emphasis on infrastructural modernization and connectivity enhancement, thereby reinforcing the country's competitiveness in global trade and mobility networks.

- **Transport Infrastructure and FDI Dynamics:** According to data from the Department for Promotion of Industry and Internal Trade (DPIIT), India has attracted cumulative Foreign Direct Investment (FDI) inflows exceeding USD 1.05 trillion between April 2000 and December 2024. Within this aggregate, the transport infrastructure sector—encompassing roads, ports, airports, railways, and logistics—has consistently ranked among the foremost infrastructure segments in terms of foreign capital mobilization. Equity inflows into transport infrastructure alone have amounted to several tens of billions of dollars, with particularly significant allocations directed toward airports, seaports, and national highway development.

The temporal distribution of FDI inflows into transport infrastructure reflects evolving policy priorities and sectoral diversification, as outlined below

Period	Approx. Share of Total FDI	Key Focus Areas
2000–2010	~10–12%	Airport modernization, Port development
2010–2020	~15%	National Highways, Metro Rail expansion
2020–2024	~18–20%	Electric Vehicles (EVs), Logistics, Sustainable Transport

Note: Shares are indicative, derived from DPIIT sectoral fact sheets and Reserve Bank of India (RBI) inflow data.

- **Energy Infrastructure and FDI Inflows**: Foreign Direct Investment (FDI) in India's energy infrastructure—comprising conventional power generation, non-conventional renewable energy, and petroleum and natural gas—has been systematically monitored by the Department for Promotion of Industry and Internal Trade (DPIIT) since April 2000. Cumulative inflows recorded up to December 2024 amount to approximately USD 16–17 billion in the power sector, supplemented by substantial additional investments in renewable energy projects and oil and gas infrastructure.

These inflows have played a pivotal role in augmenting India's energy capacity, facilitating technological transfer, and diversifying the energy mix toward sustainable sources. Investments in solar, wind, and hydroelectric projects have accelerated the transition to clean energy, while capital inflows into petroleum and natural gas have strengthened upstream and downstream infrastructure, ensuring energy security and resilience. Collectively, FDI in energy infrastructure has contributed to both sectoral modernization and the broader macroeconomic objective of sustainable growth.

Foreign Direct Investment Equity Inflow (Apr 2010-Dec 2021)								
Financial Year	**Power**		**Non Conventional**		**Coal**		**Petroleum & Natural Gas**	
	$M	**Rs.M**	**$M**	**Rs.M**	**$M**	**Rs.M**	**$M**	**Rs.M**
2010-11Apr-Mar	1271.77	97201	214.4	16387	0	0	556.43	42528
2011-12Apr-Mar	1652.38	12629	452.17	34559	0	0	2030	155150
2012-13 Apr-Mar	535.68	40942	1106.52	84571	0	0	214.8	16417
2013-14 Apr-Mar	1066.08	81480	414.25	31661	3	226.2	112.23	8578
2014-15 Apr-Mar	707.04	54039	615.95	47077	0	0	1079	82469
2015-16 Apr-Mar	868.8	66402	776.51	59349	0	0	103.02	7874
2016-17 Apr-Mar	1112.98	85065	783.57	59888	0	0	180.4	13788
2017-18 Apr-	1621	12389	1204.46	92057	0	0	24.18	1848

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Mar		3						
2018-19 Apr-Mar	1105.64	84504	1446.16	110530	0	0	138.43	10580
2019-20 Apr-Mar	672.16	47148	1393.39	97738	0	0	805.38	56493
2020-21 Apr-Mar	373.63	27591	797.21	58870	0	0	908.57	67093
2021-22 Apr-Mar	525.66	39746	1600.93	121049	0	0	964.97	72963
Total	11512.8	874303.6	10805.5	813736.1	3	226.2	7117.4	535781.1
Source: Ministry of Commerce & Industry , Marcom India Research								

- **Telecommunication and Digital Infrastructure: Evolution of FDI Policy:** The liberalization of India's telecommunication sector commenced in 1991; however, the formal structuring of Foreign Direct Investment (FDI) specifically for Infrastructure Providers (Category-I)—entities engaged in provisioning dark fiber, rights of way, duct space, and tower infrastructure—was established at an early stage, with permission for up to 100% foreign equity participation. This marked the foundational phase of FDI in telecom infrastructure.

  2005 – Expansion Phase: In 2005, while FDI in core telecom services such as cellular and basic telephony was capped at 74%, the Government of India explicitly retained the provision for 100% foreign equity participation in infrastructure-related activities, including telecom equipment manufacturing and IT-enabled services. This policy differentiation underscored the strategic importance of infrastructure development in sustaining sectoral growth.

  2013 – Integration Phase: In August 2013, the policy framework was further streamlined, permitting 100% FDI across the entire telecom sector. At this juncture, infrastructure providers were subsumed under a unified regulatory umbrella, wherein 49% of foreign equity was permitted via the automatic route, while investments beyond this threshold required approval from the Foreign Investment Promotion Board (FIPB). This integration reflected the government's intent to harmonize investment norms and enhance regulatory clarity.

  2021 – Automatic Route Milestone: On October 6, 2021, the Department for Promotion of Industry and Internal Trade (DPIIT) issued Press Note 4, which institutionalized a landmark reform by shifting Telecom Infrastructure Providers (Category-I) and all other telecom services to the 100% automatic route. This reform eliminated the requirement for prior government approval, thereby facilitating seamless foreign ownership of infrastructure enterprises in India and signalling a decisive move toward investment liberalization in the digital economy.

FDI Inflow in Telecommunication & Digital Infrastructure (Apr 2010-March-24)

Financial Year (April - March)	FDI Inflow (in US$ Million)
2000 – 2001	177
2001 – 2002	873
2002 – 2003	191
2003 – 2004	86
2004 – 2005	118
2005 – 2006	624
2006 – 2007	478
2007 – 2008	1,261
2008 – 2009	2,558
2009 – 2010	2,539
2010 – 2011	1,665
2011 – 2012	1,997
2012 – 2013	304
2013 – 2014	1,307
2014 – 2015	2,895
2015 – 2016	1,324
2016 – 2017	5,564
2017 – 2018	6,212
2018 – 2019	2,668
2019 – 2020	4,445
2020 – 2021	392
2021 – 2022	668
2022 – 2023	713
2023 – 2024	1,254
Figures are based on DPIIT and RBI Fact Sheets The sharp spike in 2016-17 and 2017-18 was largely driven by the entrance of new players (like Reliance Jio) and massive consolidation in the industry	

- **Social Infrastructure and FDI Inflows:** Foreign Direct Investment (FDI) in India's social infrastructure—encompassing education, healthcare, hospitals, and vocational training—was initiated in the aftermath of the 1991 economic liberalization. However, actual inflows remained marginal until the mid-2000s, when targeted policy interventions created more conducive conditions for foreign participation. Systematic monitoring of FDI in this domain commenced in April 2000 under the Department for Promotion of Industry and Internal Trade (DPIIT), which authorized up to 100% foreign equity participation in healthcare (specifically hospitals) beginning in 2000, and subsequently extended similar permissions to the education sector in 2002.

Despite these early provisions, substantial growth in FDI inflows into social infrastructure materialized only after 2016, following further

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regulatory relaxations and liberalization measures. These reforms facilitated greater capital mobilization, enhanced institutional capacity, and accelerated the integration of international expertise into India's education and healthcare systems. Collectively, FDI in social infrastructure has contributed to sectoral modernization, improved service delivery, and strengthened the country's human capital base.

Year-wise FDI Data: Social Infrastructure in (US$ Million)

Financial Year	**Education**	**Healthcare (Hospitals)**	**Housing/Urban Dev.**	**Total Social Inflow**
2000–2014 (Cum.)	970	2,300	23,200	26,470
2014–2015	78	567	769	1,414
2015–2016	230	742	112	1,084
2016–2017	160	747	105	1,012
2017–2018	275	708	540	1,523
2018–2019	445	1,045	213	1,703
2019–2020	760	632	617	2,009
2020–2021	680	502	422	1,604
2021–2022	820	705	125	1,650
2022–2023	450	1,215	147	1,812
2023–2024	510	1,530	255	2,295
2024–2025	580	1,650	310	2,540

DPIIT Annual Report 2024–25) summarize the performance of critical sectors like Education and Health. Government Releases: Official updates from the Ministry of Commerce & Industry are released via the PIB

Objective 2: SWOT Analysis of FDI in India's Economy

- **Strengths:**

✓ **Capital Inflows:** Foreign Direct Investment (FDI) constitutes a stable and long-term source of external equity capital, enabling India to finance sustained economic growth without excessive reliance on short-term borrowing or external debt instruments. Unlike debt financing, which imposes repayment obligations with interest and thereby heightens financial exposure, FDI embodies equity participation, mitigating systemic risks and enhancing macroeconomic resilience.

The infusion of foreign capital has been pivotal in facilitating large-scale infrastructure development, industrial diversification, and technological upgrading, thereby augmenting productivity and competitiveness across sectors. Furthermore, FDI contributes directly to the accumulation of foreign exchange reserves, as investors inject convertible currencies that strengthen India's balance of payments position. A robust reserve base enhances the nation's capacity to

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absorb external shocks, stabilize exchange rate volatility, and reinforce investor confidence in the domestic economy.

In aggregate, FDI reduces financial vulnerability, supports structural transformation, and promotes sustainable economic growth by integrating India more deeply into global capital markets and production networks.

- ✓ **Employment Generation:** FDI-driven industries in India have generated millions of jobs over the past two decades, particularly in IT services, retail, manufacturing, and infrastructure. Recent government data shows that schemes supported by FDI, such as the Production Linked Incentive (PLI), have created over 9.5 lakh jobs in manufacturing alone, while IT and e-commerce investments have added millions of service-sector jobs. PLI scheme clocks ₹1.46 lakh crores in investment,₹12.5 lakh crore in production, ₹4 lakh crore in exports and generates 9.5 lakh jobs. 12 greenfield infrastructure projects worth ₹28,602 crore, unlocking ₹1.5 lakh crore investment potential and 9.4 lakh potential jobs under National Industrial Corridor Development Project. FDI equity inflow in the manufacturing sector increased by 69%, rising from $98 billion in 2004-2014 to $165 billion in 2014-2024. FDI inflows surge by 26% to $22.5 billion in Q1 FY 2024-25, as against $17.8 billion in FY 2023-24 1.49 lakh startups create 16 lakh direct job 48% startups with at least one woman director, 50% startups based out of tier 2 and 3 cities. Source: Date: 20 DEC 2024 11:44AM by PIB Delhi. Write it in Journel way with technical vocabulary without changing its meaning and content

Here's a journal-style, technically enriched revision of your passage, maintaining the meaning, content, and data while elevating the vocabulary and tone:

Employment Generation through FDI

- ✓ **Boost to GDP**: Foreign Direct Investment (FDI) has functioned as a significant macroeconomic driver of India's Gross Domestic Product (GDP) growth, contributing an estimated 0.7–2% annually over the past two decades. By channelling long-term equity capital into critical sectors, FDI has enhanced aggregate demand, strengthened productive capacity, and facilitated structural transformation within the economy.

In 2025, FDI inflows registered a sharp surge of 73%, reaching USD 47 billion. The services and manufacturing sectors accounted for the largest share of these inflows, underscoring their centrality in India's growth trajectory. These investments have directly augmented factor productivity, enhanced industrial competitiveness, and accelerated India's integration into global supply chains.

Collectively, the sustained inflow of foreign capital has reinforced India's macroeconomic stability, expanded its growth potential, and positioned the economy more prominently within the global production and trade architecture.

FDI Inflow & GDP Growth Data April- March		
Financial Year (FY)	**Total FDI Inflow (USD Billion)**	**GDP Growth Rate (%)**
2006–07	22.83	8.10%
2007–08	34.84	7.70%
2008–09	41.87	3.10%
2009–10	37.75	7.90%
2010–11	34.85	8.50%

2011–12	46.56	5.20%
2012–13	34.3	5.50%
2013–14	36.05	6.40%
2014–15	45.15	7.40%
2015–16	55.56	8.00%
2016–17	60.22	8.30%
2017–18	60.97	6.80%
2018–19	62.00	6.50%
2019–20	74.39	3.90%
2020–21	81.97	-5.80%
2021–22	84.84	9.10%
2022–23	71.36	7.20%
2023–24	71.28	8.20%
Sources: RBI Monthly Bulletins, DPIIT FDI Factsheets, and Ministry of Statistics and Programme Implementation (MOSPI),		

- **Weaknesses:**

✓ **Dependency on Foreign Enterprises:** A critical weakness associated with Foreign Direct Investment (FDI) in India lies in the potential dependency on foreign corporations, particularly within strategic sectors such as defence, energy, and infrastructure. Such reliance may engender vulnerabilities in national security by granting external actors significant influence over essential industries and critical assets.

According to provisional data from the Department for Promotion of Industry and Internal Trade (DPIIT) for FY 2024–25 and corroborated by the Reserve Bank of India (RBI) Annual Report 2025, FDI inflows exhibit a pronounced concentration in high-value, technology-intensive sectors. These sectors, often referred to as "investment magnets," collectively account for more than half of total inflows. While this concentration underscores India's attractiveness to global investors in advanced industries, it simultaneously raises concerns regarding overdependence on foreign capital and technology in domains integral to sovereign economic and security interests.

Rank	Sector	FDI Share (%)	Inflow (USD Billion)	Risk
1	Services Sector (Fintech, R&D, Banking)	19.00%	9.35	↑ High
2	Manufacturing (Electronics, Autos, etc.)	17.00%	19.04	↑ High
3	Computer Software & Hardware	16.00%	8.1	↑Moderate
4	Telecommunications (5G,	13.00%	6.5	↑ High

	Infrastructure)			
5	Trading (E-commerce, Retail)	8.00%	3.8	➞ Stable
6	Real Estate (REITs, Commercial)	9.00%	4.42	↑ Growing
Source: DPIIT (Department for Promotion of Industry and Internal Trade) data for FY 2024–25 and the RBI Annual Report 2025				

✓ **Adverse Impact on Domestic Industries:** Although Foreign Direct Investment (FDI) operates as a catalyst for economic expansion, it frequently generates a “crowding-out” effect that disproportionately disadvantages local Micro, Small, and Medium Enterprises (MSMEs). Multinational corporations entering the Indian market typically possess substantial capital reserves and access to advanced global technologies, enabling them to achieve economies of scale and operational efficiencies that domestic firms are unable to replicate. This asymmetry in competitive capacity often results in domestic enterprises losing market share, as they struggle to compete on both cost structures and innovation capabilities.

According to the **DPIIT 2024–25 Year-End Review**, FDI inflows into the manufacturing sector have risen significantly. However, this growth has necessitated government intervention through **Production Linked Incentive (PLI)** schemes, designed to integrate MSMEs into global supply chains as ancillary units rather than allowing them to be displaced outright. Such policy instruments are critical in mitigating the adverse effects of foreign dominance and ensuring that domestic enterprises retain a functional role within the industrial ecosystem.

Absent adequate protective policy interventions, the predatory pricing strategies employed by financially robust foreign multinationals possess the potential to displace domestic competitors, thereby intensifying market concentration and diminishing indigenous entrepreneurial diversity. Such dynamics highlight the inherent duality of Foreign Direct Investment (FDI): while it serves as a catalyst for industrial expansion and accelerates sectoral modernization, it concurrently risks destabilizing the sustainability of domestic enterprise ecosystems. This paradox underscores the necessity of calibrated regulatory frameworks that balance the benefits of foreign capital inflows with the imperative of safeguarding local industries. Without such mechanisms, the asymmetrical competitive advantages of multinational corporations—derived from deep capital reserves and global technological superiority—may erode the resilience of domestic firms, leading to structural imbalances within the national economy.

✓ **Risk of Financial Instability:** During the period 2025–2026, the potential for financial instability arising from Foreign Direct Investment (FDI) has emerged as a critical concern for Indian policymakers. Although FDI is conventionally regarded as a relatively “stable” form of capital inflow, abrupt reversals—often precipitated by global interest rate hikes, geopolitical disruptions, or protectionist measures such as elevated U.S. tariffs—can trigger episodes of capital flight.

The **Reserve Bank of India (RBI) Annual Report 2024–25** underscored a pronounced paradox: while gross FDI inflows remained elevated at approximately USD 81 billion, net FDI contracted sharply to below USD 1 billion, primarily due to unprecedented levels of profit repatriation and disinvestment. This exodus of foreign currency exerted immediate downward pressure on the Indian Rupee, which breached the psychologically significant threshold of 90 per USD in late 2025. Such depreciation not only escalates the cost of imports but also amplifies inflationary pressures, thereby undermining macroeconomic stability.

Moreover, given that FDI frequently underpins multi-year infrastructure initiatives such as the **"Gati Shakti" program**, sudden declines in investor sentiment create execution gaps, as long-term project planning presupposes a predictable and continuous flow of foreign capital. The contraction in net FDI even turned negative (USD –616 million) for the second time in the fiscal year, signifying that capital outflows exceeded inflows. This dynamic illustrates the inherent vulnerability of overreliance on foreign equity, where volatility in global financial conditions can destabilize domestic investment cycles and compromise developmental objectives.

- **<u>Opportunities:</u>**

✓ **Technology Transfer and Innovation:** Foreign Direct Investment (FDI) operates as a strategic conduit for technology transfer, managerial expertise, and global best practices, thereby enhancing India's absorptive capacity and fostering industrial upgrading. Inflows into renewable energy (USD 6.1 billion between 2020–2023) have accelerated solar and wind deployment, while pharmaceutical FDI has strengthened R&D intensity and compliance with international standards, consolidating India's role in global generics. Similarly, liberalized norms in digital infrastructure have catalysed investments in telecom and data centres.

✓ **Integration into Global Value Chains (GVCs):** FDI has significantly strengthened India's integration into Global Value Chains (GVCs), with inflows surging 73% to USD 47 billion in 2025, largely concentrated in services and manufacturing sectors. This expansion reflects India's growing role as a competitive hub in global supply networks. Large-scale investments in **services (IT, finance, R&D)** and **manufacturing**. These inflows were supported by policies aimed at embedding India deeper into global supply chains. FDI has positioned India as a hub for electronics, automotive, and renewable energy components, strengthening backward and forward linkage.

- **<u>Threats:</u>**

✓ **Global Economic Uncertainty:** Global economic uncertainty operates as a critical "risk filter" for foreign capital inflows, frequently resulting in a deceleration of investment activity as multinational corporations adopt defensive strategies and prioritize capital preservation over expansion. Within the 2025–2026 period, this uncertainty is predominantly shaped by three interrelated forces:

✓ **Global Recessionary Pressures:** Economic growth in advanced economies such as the United States and the European Union decelerated to approximately 2.3% in 2025, reinforcing recessionary headwinds. In response, global FDI flows became increasingly risk-averse, with investors deferring or suspending large-scale *Greenfield* projects—such as new manufacturing facilities—in order to conserve liquidity during downturns.

✓ **Currency Volatility:** In late 2025, the Indian Rupee experienced pronounced depreciation, breaching the psychologically significant threshold of 90 per USD. For foreign investors, such currency volatility erodes the real value of repatriated profits when converted into Dollars or Euros, effectively functioning as a "hidden tax" on returns. This dynamic undermines investor confidence and raises the cost of capital deployment in emerging markets.

- ✓ **Policy Changes and Protectionism:** Abrupt policy shifts and protectionist trade measures have repeatedly discouraged global investors. Illustrative examples include U.S. tariff escalations against China and India's sudden imposition of trade restrictions. These regulatory uncertainties elevate transaction costs, disrupt supply chains, and often precipitate capital flight, thereby constraining the stability of FDI inflows.

Collectively, these forces underscore the vulnerability of India's FDI landscape to exogenous shocks, highlighting the extent to which foreign investment remains contingent upon global macroeconomic stability and predictable policy environments.

Objective 3: The Relationship between Foreign Direct Investment (FDI) and India's GDP 3.1 Growth: Over the past two decades, the interaction between Foreign Direct Investment (FDI) and India's Gross Domestic Product (GDP) growth has demonstrated a symbiotic, albeit occasionally volatile, economic trajectory. Inflows of foreign capital into infrastructure, technology, and manufacturing have generally functioned as a multiplier, enhancing productivity, employment generation, and sectoral competitiveness.

The Golden Phase (2005–2008): Following the liberalization reforms, FDI inflows surged, reaching approximately 2% to 3.5% of GDP. This infusion of external equity capital catalyzed the "India Shining" era, during which GDP growth consistently remained in the 8.0%–9.5% range, culminating in a peak of 10.5% during the 2010 recovery phase. The period exemplified the capacity of FDI to accelerate industrial expansion and macroeconomic dynamism. The Resilience Check (2008 & 2020): During the Global Financial Crisis of 2008 and the COVID-19 pandemic in 2020, exogenous shocks disrupted global capital flows, causing FDI inflows to falter. Notably, in 2020, FDI remained resilient in absolute terms due to substantial investments in the digital economy. However, the broader economic standstill precipitated a GDP contraction of –5.8%, underscoring that while FDI constitutes a critical pillar of growth, it cannot independently offset the adverse effects of systemic domestic lockdowns.

The Mid-Decade Fluctuations (2011–2014): A phase characterized by policy inertia and elevated inflationary pressures witnessed FDI inflows as a share of GDP decline to nearly 1.5%. Correspondingly, GDP growth moderated to the 5%–6% range, reinforcing the empirical linkage between investment certainty and output performance. This period highlighted the sensitivity of growth trajectories to both macroeconomic stability and regulatory clarity.

FDI Inflow and GDP Growth 2005 to 2025

Financial Year	FDI Equity Inflow (US$ B)	Real GDP Growth (%)	Contextual Milestone
2005–06	5.54	9.30%	Liberalization of Telecom & Aviation
2006–07	12.49	9.30%	Peak of the mid-2000s global boom
2007–08	24.58	9.30%	Pre-crisis high; Real Estate surge
2008–09	27.33	6.70%	Impact of the Global Financial Crisis
2009–10	25.83	8.60%	Strong domestic stimulus recovery
2010–11	21.38	10.30%	Double-digit growth; high inflation era

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2011–12	35.12	6.60%	Massive inflows into Service/Telecom
2012–13	22.42	5.50%	"Policy Paralysis" & Fragile Five era
2013–14	24.30	6.40%	Stabilizing the Rupee and Current Account
2014–15	30.93	7.40%	Launch of 'Make in India'
2015–16	40.00	8.00%	Easing of FDI caps in Defence & Retail
2016–17	43.48	8.30%	Implementation of GST and IBC
2017–18	44.86	6.80%	Demonetization & GST transition phase
2018–19	44.37	6.50%	Rise of Digital Economy & E-commerce
2019–20	49.98	3.90%	Industrial slowdown before the pandemic
2020–21	59.64	-5.80%	Record FDI despite COVID-19 contraction
2021–22	58.77	9.10%	V-shaped recovery; Start-up funding peak
2022–23	46.03	7.00%	Global monetary tightening (rate hikes)
2023–24	44.42	8.20%	Robust domestic demand; PLI momentum
2024–25	50.36	7.40%	4th Largest Economy status reached
Source: Ministry of Finance - Economic Survey Archives, Ministry of Finance, Press Release: India Records (May 2025)			

Conclusion:

Foreign Direct Investment (FDI) has transitioned from a supplementary capital source to a foundational pillar of India's economic architecture, particularly in infrastructure and technology-intensive sectors. Investment patterns reveal a strategic reorientation from basic services toward high-value manufacturing and renewable energy, facilitated by the *100% Automatic Route* and *Production Linked Incentive (PLI)* schemes. Historically, FDI has acted as a GDP multiplier, driving "Golden Phases" of growth above 9%, though its trajectory remains highly sensitive to global shocks and domestic policy stability.

India's demographic dividend and digital ecosystem constitute structural strengths, yet vulnerabilities persist due to elevated profit repatriation and currency volatility, exemplified by the Rupee breaching the 90-per-USD threshold in 2025. Sustained growth requires leveraging FDI not merely as capital inflow but as a conduit for technological absorption, MSME integration, and industrial upgrading. The resilience of FDI during crises such as COVID-19 underscores its stabilizing role, but future success depends on mitigating crowding-out effects and ensuring regulatory predictability. A balanced approach that safeguards indigenous entrepreneurial diversity while fostering global innovation will be indispensable for achieving India's $5 trillion economic target.

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