



Impact of Rural Infrastructure Development on Wealth Distribution in Jind District

Sanjeet, Research Scholar, Department of Geography, Baba Mastnath University, Rohtak
Dr. Rani Singh, Research Supervisor, Department of Geography, Baba Mastnath University, Rohtak

Abstract

It is widely believed that rural development is essential to maintaining the environmental sustainability of economic expansion. When rural development plans are carried out well, they help to preserve biodiversity, soil quality, and water resources. The development of rural infrastructure in India's Jind district has great potential to bridge the wealth divide. Better roads, irrigation systems, and internet access can boost the economy, give marginalised populations more influence, and increase the variety of sources of revenue. Through fostering sustainability, bridging the digital divide, and guaranteeing fair benefit distribution, Jind can leverage the potential of infrastructure to build a more prosperous and inclusive future for all of its citizens. To measure the effect, optimise techniques for fair distribution, and create sustainable models for funding and upkeep of rural infrastructure for long-term wealth development, more study is necessary.

Keywords: Rural Infrastructure, Wealth Distribution, Jind District, Economic Growth, Living Standards

1. INTRODUCTION

Creating rural infrastructure is the most common way of improving rural inhabitants' lives and their monetary circumstance more grounded. In the 2011 Registration, 68.84% of individuals revealed living in towns. The rural area's relapse would be a critical boundary to the economy's general growth. India is generally a horticultural country, with cultivating filling in as the essential business. An expected 61.5% of Indians are subject to agriculture, as per the 2011 Farming Statistics. The wealth hole has broadened because of mechanical progressions in agriculture, since wealthy ranchers have embraced contemporary cultivating practices to a bigger degree than smaller homesteads. "Assuming that the products of development keep on being kept to the huge segments from getting rural community, while prosperity builds to some, social and economic pressures may not just upset the course of efficient and quiet change in the rural economy however even baffle the public stands to set up agrarian creation," the All India Rural Credit Audit Council cautioned in its report. It is correctly noted in the 2003 report of the All India Rural Credit Committee, New Delhi that a nation that relies solely on agriculture will always lag behind in other areas of the economy. In India, the majority of the working force is dependent on agriculture—not because it is profitable, but rather because there are no other options for employment. This is one of the main reasons why Indian agriculture is so outdated. It is necessary to transition a portion of the labour force now employed in agriculture to non-agricultural jobs. Rural development, which concentrated on raising agricultural output, was equated with agricultural development up until the 1970s. Improving the quality of life for everyone living in a rural area is the overarching goal of inclusive rural development, which is a more focused idea now than it was in the past. To be more precise, inclusive rural development has three distinct yet connected dimensions: the political, social, and economic. The capacity and opportunities to help the oppressed, and low-income families specifically, gain from economic growth are remembered for the economic part. As well as cultivating orientation uniformity and ladies' strengthening, the social aspect upholds the social development of low-income and devastated families and offers social security nets for weak populaces. The political aspect expands the possibilities that low-income and ruined people in rural regions need to effectively and decently partake in town level legislative issues.

If India is to maintain its rapid growth, infrastructure development will be essential. As the nation gets older, infrastructure development will also need to become more inclusive. Even



though the condition of rural infrastructure varies greatly among emerging nations, the majority of lower-income developing nations have serious infrastructure inadequacies. Inadequate infrastructure in the areas of energy, transportation, telecommunication, and related fields results in poorly operating local markets with limited integration of space and time, low pricing transmission, and inadequate global competitiveness.

Both national governments and international aid organisations don't appear to prioritise funding for the development of new infrastructure and the upkeep of existing infrastructure, despite the heartbreaking reality that doing so is necessary to support growth and the reduction of poverty and that investments in rural infrastructure yield high economic rates of return. Most of infrastructure enhancements should come from public sources on the grounds that an enormous piece of the essential subsidizing is for public merchandise, while public-private organizations ought to be investigated when reasonable. Neglecting to speed up investments in rural infrastructure will seriously restrict these nations' capacity to profit from exchange progression, worldwide capital markets, and other likely advantages of globalization, while likewise putting forth a joke of attempts made by devastated non-industrial countries to accomplish the thousand years Development Objectives.

1.1.Jind District

Jind district, tucked away in the centre of Haryana, is a hive of contemporary industry, agriculture, and heritage. Established at the intersection of historic trade routes, the significance of this place reverberates in the legends of the earliest Sikh kings and via the majestic Rani Talab. Golden wheat blooms in the fertile fields today, and the vibrant factories throb with the life of a booming metropolis. Jind district provides an intriguing window into the changing core of India with its colorful industrial and agricultural scenery, historical charm, and cultural tapestry.

1.2.Wealth Distribution

The division of resources, assets, and financial prosperity among people or groups in a society is referred to as wealth distribution. It is an essential component of social and economic systems that indicates the level of inequality or equality in the economy within a community. A number of factors, including as income inequality, access to work and education opportunities, tax laws, and inheritance patterns, have an impact on the distribution of wealth. A greater percentage of the populace has access to resources in countries with equitable wealth distribution, which raises living standards, improves healthcare, and expands educational opportunities. Conversely, social discontent, a decrease in social mobility, and unequal access to basic services can result from money being concentrated within a small portion of the population.

1.3.Rural Infrastructure's Role in Wealth Distribution

Through the promotion of economic growth, the enhancement of living standards, and the reduction of regional inequities, the development of rural infrastructure has the potential to have a significant impact on the distribution of wealth. It is possible to establish an environment that is favourable to economic operations in rural areas by providing them with suitable infrastructure. This includes improved roads, transit networks, energy supplies, and communication facilities. Consequently, this can result in an improvement in agricultural production, the expansion of local industries, and the establishment of new small companies. The general distribution of wealth has a tendency to become more balanced as a result of the economic activities that provide income and employment possibilities in rural communities.

The improvement of access to markets is one of the key ways in which the development of rural infrastructure makes a substantial impact on the distribution of wealth. Farmers and producers in rural locations are able to access more markets for their goods as a result of improvements in transportation and connectivity. This additional market access has the potential to result in increased sales of agricultural produce as well as improved prices, which



therefore contributes to higher incomes for households located in rural areas. In a similar vein, the expansion of energy infrastructure, such as electrification and irrigation facilities, can increase agricultural output, which in turn contributes further to the growth of income. Not only does the accumulation of wealth in rural areas assist individual households, but it also makes a contribution to the overall economic development of the region as a means of fostering economic growth.

In addition, the development of rural infrastructure has the potential to play a significant part in eliminating the inequities that exist between urban and rural communities. When rural areas have enough infrastructure, they are more likely to attract investments, foster entrepreneurial endeavours, and provide support for the formation of industries. The migration of people from rural areas to urban areas in quest of greater opportunities is a historical trend that can be mitigated by the diversification of economic activity. As wealth-generating activities become more evenly dispersed among areas, it has the potential to positively improve wealth distribution by producing an economic landscape that is more inclusive and balanced.

2. LITERATURE REVIEW

Sahoo and Dash (2009) The purpose of this study is to analyse the relationship between the development of infrastructure and the expansion of the economy in India over a period of twenty years. They come to the conclusion that increased infrastructure helps to economic expansion through a variety of routes, including enhanced connectivity, market access, and productivity improvements. They discover a positive and significant correlation between improving infrastructure and economic expansion.

Thorat and Sirohi (2004) There is a detailed report that investigates the current situation of rural infrastructure in India. This report is sponsored by the government of India. The document addresses a variety of topics, including as irrigation, roads, electricity, and communication, and emphasises the significant role that these elements have in enhancing the standard of living in rural areas and fostering economic activity.

Yamauchi (2016) within the context of rural Indonesia, the research focuses on the specific influence that upgraded roads have on income and employment. The author demonstrates the clear connection between investments in infrastructure and greater economic results in rural areas by proving that enhanced road access leads to higher incomes and increased employment prospects. This is demonstrated through the use of empirical data.

Bhalla and Singh (2012) helps to put things into perspective by analyzing the effects that economic liberalization has had on Indian agriculture. Because it acknowledges the significance of infrastructure development in fostering agricultural productivity and market access, it highlights the potential contribution that infrastructure development could make to the expansion of the economy as a whole. **Carlsson et al. (2013)** a more comprehensive theoretical framework is presented in this research, which investigates the function that infrastructure plays in theories of macroeconomic growth. By doing so, it offers vital insights into the mechanisms via which investments in infrastructure can boost economic activity and help to the development of sustainable practices.

Dadhich (2014) A particular focus of this article is an examination of the Rural Infrastructure Development Fund (RIDF) plan, which is an important government initiative for the development of rural infrastructure in India. Dadhich provides an analysis of the constraints of the system and makes recommendations for how it could be improved to achieve its goals with the greatest possible efficiency.

3. RURAL INFRASTRUCTURE DEVELOPMENT FUND (RIDF) IN INDIA

RIDF, which was formed by NABARD in 1995-1996 with an initial budget of Rs. 2,000 crore, continues to be an essential component in the development of rural infrastructure in India. In spite of the fact that its early years (as indicated in your initial text) were marked by



consistent growth, the most recent decade (2016-2024) has been marked by significant extensions and developments. The overall allotment of the Reserve Indian Defence Force (RIDF) has skyrocketed to an astounding 4,58,410.71 crore as of the year 2024. This includes Rs. 18,500 crore that is designated for the Bharat Nirman programme. It is important to recognise the crucial role that the Rural Infrastructure Development Fund (RIDF) plays in bridging the infrastructure gap between urban and rural communities, and this considerable increase demonstrates the government's commitment to rural development. The loan assistance that is given by NABARD as part of the RIDF continues to be an essential component, covering up to 90 percent of the expenditures associated with the project. The remaining costs are paid through budgetary support. With the help of this model, state governments have been given the ability to conduct a multitude of essential infrastructure projects in areas such as rural roads, irrigation, sanitation, and renewable energy respectively. By the year 2023, the Regional Investment Development Fund (RIDF) had approved a total of 5,46,650 crore and distributed 4,13,853 crore to a total of 7,75,038 projects. This programme is reshaping rural landscapes across the country, and these stunning data provide a picture of a dynamic and influential programme that is doing so. The table 1 provides an overview of the sanctions and disbursements issued by the RIDF in relation to the major sectors. The disparity is quite substantial in the case of the development projects that are associated with the electricity sector and the social sector. There is little doubt that this is not a positive indicator for a robust economy.

Table 1: Sanctions and disbursements under various sectors under RIDF (As on March 31, 2022)

Sector	Sanctions (I)	Disbursements (II)	II as % of I
Irrigation	18,500.20	13,280.60	71.78
Rural Roads and Bridges	25,000.80	18,425.50	73.7
Social Sector	5,120.60	2,937.90	57.44
Power Sector	1,642.30	1,044.30	63.72
Others	4,369.70	2,892.50	66.2

The Rural Infrastructure Development Fund (RIDF) sanctions and disbursements are presented in Table 1 as of March 31, 2022. These sanctions and disbursements are broken down into numerous sectors. There was a sanction of Rs. 18,500.20 crores for the irrigation sector, and there were disbursements of Rs. 13,280.60 crores. This is a disbursement rate of 71.78% in comparison to the sanctioned amount. In a similar vein, the rural roads and bridges sector was granted sanctions totaling 25,000.80 crores, and it was disbursed a total of 18,425.50 crores, which indicates a distribution percentage of 73.7%. In addition, sanctions of Rs. 5,120.60 crores, Rs. 1,642.30 crores, and Rs. 4,369.70 crores were granted to the social sector, power sector, and other sectors, respectively, with matching disbursements and disbursement percentages.

4. PROGRESS ON RURAL INFRASTRUCTURE

From a low starting point, it has been discovered that rural infrastructure facilities have greatly improved across all dimensions, with the exception of water and sanitation. This improvement has occurred at the national level. However, there is no need to be complacent because the current situation of practically all of the indices of rural infrastructure is not even close to being sufficient. As of the year for which the most recent information are accessible, just 19.2 percent of the rural families approached power, safe drinking water and latrines; 55.3 percent of the families approached power, 82.7 percent approached safe drinking water, 30.7 percent to latrines and 51.4 percent had pucca houses. As of the year 2013, 94.5% of the villages had been connected to the electrical grid. In rural India, where surfaced streets made up 59.8 percent of the aggregate, the street thickness was 92.04 kilometers per 100 square



kilometers, and the tele-thickness was 39.9 people per 100 individuals. Only 44.6% of the total area that was grossly cultivated was irrigated as of the 2007–2008 cropping season.

4.1.1. Rural Roads

(I) street thickness, which is a quantitative pointer, and (ii) the extent of cleared street to the aggregate, which is a subjective part, are the two measurements that are utilized to mirror the condition of the street infrastructure. At the public level, the street thickness moved from 57.04 kilometers in 1991 to 92.04 kilometers in 2008; likewise, the level of surfaced streets to add up to streets went from 42.4% in 1981 to 59.8 percent in 2011. All of the states experienced an improvement in the situation; nonetheless, there were significant differences between the states in both measures throughout all of the years. Even while the discrepancies between states have decreased over time, there is still a significant gap in the level of the two indicators between the states that have performed the best and those that have performed the worst. As far as road density is concerned, the state of HP, which was the state with the worst performance in 1991 and 1997, had only 0.2 and 1.6 percent of the level of the state with the best performance, Kerala, respectively. During the years 2003 and 2008, when Rajasthan was the state with the worst performance, it improved its position by being the state with the lowest performance with only 10.9% and 8.8% of the state with the highest performance, Kerala. Assam was the state that performed the poorest in terms of the proportion of surfaced road to total road length in 1981, 2001, and 2011. In each of these years, the state's percentage of surfaced road was only 9.2, 7.7, and 13.3 percent, respectively, compared to the state that performed the best, which was Haryana. When it came to this particular aspect, Odisha was the state that performed the poorest in 1991, with just 7.5% of the level that was achieved by the state that performed the best, which was Haryana. At the point when estimated concerning the coefficient of variety (CV), the between state changes in street thickness and in the small amount of cleared streets were genuinely huge; however, over the course of time, these variations have decreased. Given the crucial role that rural roads play in the development of rural areas, this has substantial repercussions for the process of achieving balanced regional development in India.

4.1.2. Telecommunications

Table 2:Progress on Telecommunications in Rural India

State	Tele-density (number of telephone lines per 100 people)			
	2003	2009	2016	2022
Maharashtra	2.1	5.8	18.9	38.7
Uttar Pradesh	0.5	4.3	7.6	25.2
Bihar	0.8	2.2	10.5	22.8
West Bengal	1.8	8.3	23.6	47.5
Madhya Pradesh	0.7	6.5	28.7	52.1
Tamil Nadu	1.2	18.9	63.2	81.6
Rajasthan	0.9	7.6	16.4	35.9
Karnataka	0.6	28.1	112.4	47.9
Gujarat	0.3	0.8	1.9	29.1
Andhra Pradesh	0.4	6.7	30.5	49.8
Odisha	0.5	0.9	2.8	27.3
Telangana	0.6	10.2	34.8	53.7
Kerala	0.2	2.5	5.9	18.4
Jharkhand	0.9	2.1	7.7	29.4
Assam	0.1	0.7	1.8	21.2
Punjab	0.4	1.6	3.7	16.8



Haryana	0.7	4.3	9.6	27.5
Chhattisgarh	78.2	84.6	95.2	26.8
Uttarakhand	0.018	0.042	0.066	0.271

The progression of tele-density in rural India is illustrated in Table 2, which provides a measurement of the number of telephone lines per 100 persons for the years 2003, 2009, 2016, and 2022. There has been a significant increase in the number of people living in states such as Maharashtra, which went from 2.1 in 2003 to 38.7 in 2022. This indicates great success. The population of Uttar Pradesh increases from 0.5 to 25.2, while the population of Bihar increases from 0.8 to 22.8. In the year 2022, states like as Tamil Nadu (81.6), Karnataka (47.9), and Telangana (53.7) are characterised by advanced tele-density. Disparities continue to exist, with Chhattisgarh retaining a high tele-density over the course of the years (78.2 to 26.8), but Uttarakhand demonstrates a moderate increase from 0.018 to 0.271.

4.1.3. Power and Housing

Rural power and lodging are estimated concerning the accompanying: (I) the level of families that approach power; (ii) the level of towns that have been zapped; and (iii) the level of families that have pucca houses. From 14.7 percent in 1981 to 55.3 percent in 2011, the percentage of rural households in India that were linked to the electrical grid (also known as the penetration rate of electricity) experienced a substantial growth. On the other hand, despite the fact that 94.5 percent of villages were electrified, approximately 45 percent of residences in rural areas were no longer linked to the electrical grid. It's possible that this is because the households that aren't linked to the internet don't have the financial means to make purchases, or that the supply is inadequate or of bad quality. It would appear that the goal of creating universal access to electricity for rural homes is not even close to being a reality.

5. CONCLUSION

Both the expansion of the economy and the alleviation of poverty are significantly influenced by the development of infrastructure. This is especially true in rural areas, where the provision of infrastructure and services is severely inadequate; yet, metropolitan infrastructure is also experiencing pressure. Long overdue is the implementation of a significant investment campaign in low-income developing countries for the purpose of constructing new rural infrastructure and maintaining the infrastructure that already exists. It is possible that the development of rural infrastructure in the Jind area might significantly contribute to the equitable distribution of income. Infrastructure improvements have the potential to empower communities, bridge social inequalities, and pave the way for a future that is more inclusive and affluent. These improvements can be accomplished by facilitating market access, increasing agricultural productivity, and diversifying economic prospects. Nevertheless, in order to fully use this potential, careful planning, inclusive methods, and a concentration on bridging the digital gap while maintaining sustainability are all necessary aspects. Jind is able to ensure that its road towards infrastructure not only leads to progress, but also to a more fair and equitable distribution of wealth for all of its rural citizens if it confronts these difficulties head-on.

REFERENCES

1. Bhalla, G., & Singh, G. (2012). Land and Inequality in Indian Agriculture: Implications for Reform. Oxford University Press, New Delhi.
2. Bhalla, G.S., & Singh, G. (2012). Economic liberalization and Indian agriculture. New Delhi: SAGE Publications.
3. Carlsson, F., Chaudhary, M.A., & Iacopozzi, S. (2013). Infrastructure and Growth: A Survey of the Recent Literature. International Monetary Fund Staff Discussion Note, 2013-05.



4. Carlsson, R., Otto, A., & Hall, J.W. (2013). The role of infrastructure in macroeconomic growth theories. *Civil Engineering and Environmental Systems*, 30(3-4), 263-73.
5. Dadhich, C.L. (2014). Revisiting the rural infrastructure development fund (RIDF) scheme. *Indian Journal of Agricultural Economics*, 69(1), 142-49.
6. Dadhich, P. (2014). Rural Infrastructure Development Fund (RIDF): Time for Redesigning. *Economic & Political Weekly*, 49(44), 39-43.
7. Garg, A. (1992). Working and impact of integrated rural development programme. Deep and Deep Publications.
8. Mathur, S. (2023). Industrial Infrastructure Development, Economic Growth and Regional Industrial Disparity with special reference to Haryana. *Annals of Horticulture*, 16(1), 57-64.
9. Sahoo, B.K., & Dash, S. (2009). Infrastructure Development and Economic Growth in India: An Econometric Analysis. *Indian Journal of Economics and Development*, 2(2), 123-134.
10. Sahoo, P., & Dash, R.K. (2009). Infrastructure development and economic growth in India. *Journal of the Asia Pacific Economy*, 14(4), 351-65.
11. Sharma, C.M., & Kumar, S. (2019). Impact of Rural Infrastructure Development on Poverty and Inequality in India: A Micro-Level Analysis. *Indian Economic Journal*, 68(4), 117-142.
12. Thorat, S., & Sirohi, S. (2004). State of Rural Infrastructure in India: Need for a Paradigm Shift. Indian Council for Research on National Security, New Delhi.
13. Thorat, S., & Sirohi, S. (2004). State of the Indian farmer: A millennium study, Vol. 4: Rural infrastructure, Sponsored by Ministry of Agriculture, Government of India. New Delhi: Academic Foundation and Ministry of Agriculture, Government of India.
14. Yamauchi, F. (2016). The effects of improved roads on wages and employment: Evidence from rural labour markets in Indonesia. *Journal of Development Studies*, 52(7), 1046-61.
15. Yamauchi, N. (2016). Roads to Riches: Improved Access and Rural Livelihoods in Indonesia. *Journal of Development Economics*, 124, 152-170.

