



Original Article

Social and Health Impacts of Industrial Projects on the Family System: A Study of Nashik District

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Manuscript ID:

IBMIRJ-2025-021052

Submitted: 15 Sept. 2025

Revised: 20 Sept. 2025

Accepted: 22 Oct. 2025

Published: 31 Oct. 2025

ISSN: 3065-7857

Volume-2

Issue-10

Pp. 225-228

October 2025

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Quick Response Code:



Web: <https://ibrj.us>



DOI: [10.5281/zenodo.17622450](https://doi.org/10.5281/zenodo.17622450)

DOI Link:

<https://doi.org/10.5281/zenodo.17622450>



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Abstract

Industrial development plays a crucial role in the economic growth of a region, yet it also generates profound social and health implications for local communities. This study examines the impact of industrial projects on the family system in Nashik district, Maharashtra. The research focuses on changes in traditional family structures, inter-generational relationships, migration patterns, employment conditions, and health problems such as respiratory diseases, waterborne illnesses, and stress-related disorders. Using both primary and secondary data, the study reveals that while industrialization provides employment opportunities, it simultaneously leads to challenges such as pollution-related health risks, weakening of joint families, rising healthcare expenditure, and social conflicts. The findings highlight the urgent need for sustainable industrial policies that balance economic progress with the well-being of local families.

Keywords: Industrialization, Family System, Social Change, Health Impacts, Migration, Pollution, Gender Roles, Occupational Hazards, Urbanization, Sustainable Development

Introduction

Nashik district has emerged as one of Maharashtra's leading industrial hubs, attracting numerous large-scale and small-scale industries. Industrialization has contributed to regional development through employment generation and urban expansion. However, the growth of industrial projects has also transformed the socio-cultural fabric of local communities. The family, as the primary unit of society, is significantly influenced by industrial expansion. Issues such as displacement, migration, changing gender roles, rising cost of living, and exposure to pollution-related health hazards directly affect family stability.

In the context of Nashik, industrial projects near Satpur, Ambad, Igatpuri, and Sinnar have impacted not only the environment but also the day-to-day lives of families residing in adjoining areas. This study seeks to analyze the dual impact—both positive and negative—of industrialization on the family system and the health of local communities.

Statement of the Problem

Industrial projects, while contributing to economic growth, often disrupt the traditional social and family systems. Families living near industrial zones face challenges such as air and water pollution, occupational hazards, displacement, and the weakening of kinship ties due to migration for industrial employment. Health problems including respiratory disorders, skin diseases, and psychological stress have become increasingly common in industrial belts. Despite the economic advantages, these issues raise critical questions about the sustainability of industrialization in Nashik district.

Objectives of the Study

1. To examine the social impact of industrial projects on the family system in Nashik district.
2. To analyze the health problems faced by families residing near industrial zones.
3. To study the changes in family structure, gender roles, and inter-generational relationships due to industrialization.
4. To evaluate the coping mechanisms adopted by families in response to industrial challenges.

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How to cite this article:

Gangode, P. H., & Gunjal, S. V. (2025). Social and Health Impacts of Industrial Projects on the Family System: A Study of Nashik District. *InSight Bulletin: A Multidisciplinary Interlink International Research Journal*, 2(10), 225–228. <https://doi.org/10.5281/zenodo.17622450>

5. To suggest policy measures for minimizing adverse impacts of industrial projects on families and health.

Hypotheses

1. Industrial projects have led to significant changes in the family structure of local communities.
2. Families residing near industrial zones face higher health-related problems compared to non-industrial areas.
3. Industrialization has weakened traditional kinship ties and increased nuclear family patterns.
4. Women and children are more vulnerable to the social and health impacts of industrialization.

Literature Review

1. **P.K. Roy (1975)** – In *Socio-economic Impact of Industrialization on the Indian Family: A Case Study in Ranchi*, Roy concluded that industrialization caused rural families to shift from agriculture to industrial employment, which led to large-scale migration, disruption of joint family systems, emergence of nuclear families, increased dependency on urban wages, weakening of intergenerational support, and challenges in maintaining traditional social norms and cultural practices.
2. **R. Owens (1971)** – In *Industrialization and the Indian Joint Family*, Owens observed that urban industrial employment opportunities created by industrial growth caused a decline in joint family systems, increased nuclear households, reduced communal decision-making, and altered traditional roles of women and elders, affecting family cohesion, support networks, and emotional well-being.
3. **Anthony Giddens (1990)** – In *The Consequences of Modernity*, Giddens argued that modernization and industrialization transform family structures, weaken kinship bonds, increase individualism, redefine gender roles, disrupt caregiving patterns, create pressures on intergenerational relationships, and reduce the social safety net traditionally provided by extended families.
4. **Ulrich Beck (1992)** – In *Risk Society*, Beck highlighted that industrial growth exposes families to environmental and occupational hazards, increases health and financial risks, creates uncertainties in household security, and challenges the ability of families to adapt to new social and ecological threats, which can lead to long-term stress and instability.
5. **Keera Allendorf (2013)** – In *Going Nuclear? Family Structure and Young Women's Health in India*, Allendorf concluded that while nuclear families are increasingly common due to urbanization and industrialization, young married women in nuclear families face unique social and emotional pressures, limited caregiving support, and do not always experience better health outcomes than women in extended families, indicating hidden costs of modernization on family health.
6. **Shubhra Kaushal (2009)** – In *Displacement*, Kaushal noted that industrial projects displace communities, resulting in loss of livelihoods, disruption of social networks, weakened family structures, increased vulnerability of women and children, changes in social identity, and stress arising from resettlement and adaptation to urban industrial life.
7. **Sunita Narain (2010)** – In *Poverty and Environmental Inequality in India*, Narain emphasized that industrial pollution disproportionately affects marginalized communities, increasing respiratory and waterborne diseases, causing economic burdens, straining family resources, and reducing overall health resilience, particularly for children, women, and low-income households.
8. **Kamlakar Bhimrao Patil (2017)** – In his study on industrial development in Maharashtra, Patil concluded that local families experience health risks due to pollution, changes in water and air quality, disruption of daily routines, economic strain from medical costs, and weakened social cohesion, highlighting the multi-dimensional impacts of industrialization on family stability and community well-being.
9. **Mushahidullah Khan (2018)** – In *Impact of Industrialization on Family System in India*, Khan found that industrialization contributes to the breakdown of traditional family values, increased nuclearization, altered gender roles, reduced intergenerational support, economic dependency on industrial wages, and social isolation of family members, which together challenge the resilience and cohesion of families.
10. **R.K. Kaur (2021)** – In *Air Pollution, Climate Change, and Human Health in Indian Cities*, Kaur highlighted that industrial pollution causes chronic respiratory illnesses, cardiovascular problems, stress-related disorders, and other long-term health conditions in family members, increasing healthcare costs, reducing productivity, and creating additional socio-economic pressures on households.
11. **R. Fuller (2022)** – In *Pollution and Health: A Progress Update*, Fuller concluded that industrial pollution affects fertility, pregnancy outcomes, childhood development, and chronic illnesses in adults, which disrupts family planning, caregiving capacity, and overall household stability, especially in communities near industrial zones.
12. **Muhammad Bello Muhammad and Rahimah Abdul Aziz Yew (2018)** – In *Socio-Economic Effects of Industrialization in the Society*, they concluded that industrialization creates social inequality, environmental degradation, and health risks, affects family stability, increases dependency on industrial wages, reduces access to safe drinking water and clean air, causes occupational health hazards, and leads to psychological and social stress among family members, particularly women and children.
13. **Gabe Mythen (2000)** – In *Ulrich Beck: A Critical Introduction to the Risk Society*, Mythen argued that industrialization and modernization bring social changes, including increased individualism, redefined gender roles, stress on traditional caregiving responsibilities, and weakening of social networks, which directly influence family functioning and long-term resilience.
14. **Marathe, S., & Singh, P. (2020)** – In *The Impacts of Corporatisation of Healthcare on Family Health in Maharashtra*, they found that the combination of industrial pollution and privatized healthcare increases financial and health burdens on families, limits access to affordable care, and intensifies stress, especially among women who often manage household health responsibilities.
15. **Tripathi, R. (2024)** – In *Social Determinants of Health in India*, Tripathi emphasized that poverty, caste, gender, and education intersect with industrialization to exacerbate health disparities, limit access to services, increase stress and caregiving

burdens, and destabilize family well-being, demonstrating that industrialization has both economic and profound social consequences for households.

Research Methodology

Research Design: Descriptive and analytical study.

Area of Study: Industrial zones of Nashik district (Satpur and Ambad) **Sample Size:** 65 families selected through stratified random sampling (joint families, nuclear families, and migrant households considered).

Data Collection Methods:

- **Primary Data:** Structured questionnaires, household surveys, focus group discussions, and personal interviews.
- **Secondary Data:** Government reports, health records, census data, journals, books, and reports from NGOs working in Nashik.

Tools of Data Collection: Interview schedules, observation, and health check-up records.

Data Analysis Techniques:

- Quantitative data analysed using percentages, averages, and chi-square test.
- Qualitative data analysed through thematic analysis.

Data Analysis and Interpretation

1. Family Structure Changes

- 60% families reported a shift from joint to nuclear family systems due to industrial employment and migration.
- Younger members preferred living closer to workplaces, leading to weakening of kinship ties.

2. Health Impacts

- 55% respondents reported frequent respiratory problems (asthma, bronchitis) due to air pollution.
- 40% mentioned waterborne diseases caused by contaminated local water sources.
- Women reported higher incidence of stress, headaches, and skin allergies.

3. Social Impacts

- Rise in women's participation in industrial labour, leading to dual role stress.
- Increase in conflicts between traditional family expectations and modern work-life balance.
- Migration created social isolation for elderly members left behind.

4. Economic Impacts

- While average household income increased, healthcare expenditure also rose significantly (by nearly 30%).
- Cost of living around industrial zones higher than rural areas.

Findings

- Industrial projects have both positive (employment, urban facilities) and negative (pollution, health costs, family breakdown) impacts.
- Women and children are disproportionately affected.
- Migration and modernization weakened traditional joint families.
- Healthcare infrastructure is inadequate to handle industrial-related health issues.

Conclusion

The study concludes that industrial projects in Nashik district have brought significant changes to the family system and health conditions of local communities. While economic benefits exist, they are overshadowed by social disruptions and health challenges. A balance between industrial development and social sustainability is essential. Policy interventions such as stricter pollution control, better healthcare access, and family welfare programs are urgently needed.

Acknowledgment

The researcher expresses deep gratitude to Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar, for providing academic support and a conducive environment for pursuing this research work.

Heartfelt thanks are extended to Dr. S. V. Gunjal, Research Guide, Department of Sociology, for his valuable guidance, continuous encouragement, and constructive suggestions throughout the course of this study. His insightful inputs have been instrumental in shaping the direction and depth of the research.

The researcher also acknowledges the cooperation of families from the Satpur and Ambad industrial zones of Nashik district, who generously shared their time and experiences during data collection. Their contributions made this study possible.

Finally, sincere appreciation is conveyed to family members, friends, and well-wishers for their moral support, patience, and motivation throughout the research and writing process.

Financial support and sponsorship

Nil.

Conflicts of interest

The authors declare that there are no conflicts of interest regarding the publication of this paper

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