Rivista Italiana di Filosofia Analitica Junior Vol 14, No. 1 (2023)
ISSN: 2037-4445

Social Issues of Urban Transformation in Madurai

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Abstract: The present study attempts to explore the social issues arising from the ongoing urban transformation in Madurai. The study explores the dynamics of demographic shifts, housing challenges, income inequality, and environmental concerns prompted by economic expansion and infrastructural advancements in Madurai. Utilising comprehensive datasets provided by the Madurai Municipal Corporation, the study analyses poverty, homelessness, and the socio-economic landscape to analyse the complexities of urban development. The research emphasises the interconnectedness of social problems and urban transformation, stressing the need for inclusive, participatory decision-making processes to address disparities.

Keywords: Urban Transformation, Madurai, Social Issues, Demographic Shifts, Inclusive Development.

Introduction

Madurai, renowned for its opulent cultural heritage and historical eminence, presently finds itself in the throes of a substantial urban metamorphosis. This transformation, fueled by economic expansion and infrastructural advancements, prompts pivotal inquiries regarding its ramifications on societal frameworks and the welfare of its inhabitants. The urban evolution in Madurai has engendered a noteworthy influx of populace from rural hinterlands, precipitating alterations in the city's demographic landscape, thereby presenting challenges related to housing, sanitation, and access to fundamental amenities. This transformative trajectory has the potential to disrupt prevailing community structures and traditional social bonds. The surge in urban development often amplifies economic disparities, delving into the burgeoning divide between diverse socio-economic strata in Madurai. [1] This exploration emphasizes issues of income inequality, employment prospects, and the accessibility of education. As urbanization advances, environmental hurdles such as pollution, deforestation, and waste management become more conspicuous. The social implications of these environmental predicaments take center stage, scrutinizing their impact on public health and community well-being. In essence, Madurai's ongoing urban renaissance is a multifaceted phenomenon, weaving together economic, social, and environmental dimensions. The intricacies of this transformation necessitate a comprehensive understanding of its consequences on the intricate tapestry of Madurai's societal fabric, compelling stakeholders to address these challenges judiciously for sustainable and inclusive urban development.[2]

Social Problems, and Urban Transformation

Social problems, issues negatively impacting a society, obstruct well-being and functioning. Poverty, inequality, crime, discrimination, and environmental degradation exemplify these problems.

The social process involves societal interactions shaping human behavior through communication, socialization, and cooperation. Dynamic social processes influence the development, persistence, and resolution of social problems, often stemming from disruptions or imbalances. For instance, economic inequality may result from systemic resource distribution issues. Socialization perpetuates problems by ingraining certain behaviors and attitudes.[3] Institutions, like the legal system, may exacerbate or alleviate issues based on their structures and functions. Activism, social movements, and collective action are vital processes addressing social problems. Cultural shifts and policy interventions also play roles in resolving problems, aligning with underlying social processes. Urban transformation, changes in urban areas influenced by social, economic, political, and environmental factors, is intricately linked to social processes.[4] Movement into or out of cities shapes demographic composition, leading to growth or decline Diverse cultures in cities create unique identities, but changes in social and economic status can drive gentrification, impacting communities. Digital technologies, remote work, and cultural events shape urban areas, impacting housing, transportation, and amenities.[5]

The process involves spatial organization, distinct neighborhoods, and the rise of smart cities leveraging technology for efficiency. Social practices and movements contribute to urban identity, impacting policy changes in areas like environmental sustainability and social justice. Engaging local communities in planning results in inclusive and sustainable development the interplay between social processes and urban transformation is crucial for creating inclusive, sustainable, and responsive cities.[6] Urban transformation aims to enhance physical, economic, social, and environmental conditions. Infrastructure upgrades, new building developments, and policy implementations improve overall quality of life. Economic growth, environmental sustainability, and investments in education and healthcare are central goals. Inclusive planning, green infrastructure, and cultural spaces contribute to creating vibrant, responsive urban environments.[7]

Social Inequality and Homelessness in Madurai

Social inequality pervades Madurai, mirroring broader issues across India. Economic gaps, limited educational and healthcare access, and discrimination based on caste and gender contribute to these disparities. Traffic congestion plagues the central city due to a surge in vehicles, impacting commuting times and air quality. Infrastructure challenges include water supply, sewage systems, and waste management, leading to uneven living conditions. Unplanned urban growth results in inadequate housing and slums, exacerbating disparities. Caste-based discrimination persists, affecting education and employment.[8] Despite a diverse economy, providing ample jobs for the growing population poses challenges, contributing to poverty. Inequitable access to education perpetuates social gaps, with marginalized children facing obstacles. Varied healthcare access leads to differing health outcomes. Economic factors influence healthcare access.[9] Urbanization and industrialization contribute to environmental issues, impacting overall well-being. Water scarcity is a concern, affecting both urban and rural areas. Addressing Madurai's challenges requires a holistic approach, integrating urban planning, social policies, and community engagement. Sustainable development, education, healthcare, and economic opportunities can foster inclusivity and resilience.

Housing costs in urban areas, including Madurai, hinder low-income individuals, potentially leading to homelessness. Limited affordable housing contributes to this issue. Homeless individuals often face mental health challenges, exacerbated by a lack of accessible services. Mental health issues may lead to unemployment and housing instability. Substance abuse can be both a cause and consequence of homelessness. Lack of social support, education, and skills training hinders stable employment, perpetuating poverty. Discrimination based on race, gender, or disability contributes to homelessness. Urban development and gentrification displace low-income residents, pushing them into homelessness. For updated information on Madurai's homeless situation, consult local government reports, NGOs, academic studies, and community organizations actively addressing homelessness in the region.[10]

In the urban expanse of Madurai, a thorough investigation into the socio-economic dynamics is conducted, drawing upon secondary data meticulously compiled by the Madurai Municipal Corporation in the period of March-April 1998. This comprehensive scrutiny zeroes in on ward-wise statistics, delving into critical parameters including but not limited to caste distribution, household dimensions, tenure of residence (≥ 3 or < 3 years), annual household earnings, and per capita monthly income. The dataset at the heart of this analysis, graciously furnished by the Madurai Municipal Corporation, is representative of 89,155 households classified as economically disadvantaged out of a total 1,95,559 households subjected to scrutiny during the specified temporal span.

The identification of poverty in Madurai is anchored in the state-specific poverty threshold for urban areas in Tamil Nadu, established at Rs. 381.04 at 1996-97 prices. This benchmark, endorsed by the Ministry of Urban Affairs and Employment (Urban Poverty Alleviation Division), Government of India, New Delhi on 8.10.97, serves as the reference point for isolating impoverished households in Madurai. Within the overarching dataset of 1,95,559 households scrutinized, a subset of 59,893 is distinguished as slum dwellings. Notably, the prevalence of slum residences in the city attains a notable 30.2 percent. A deeper exploration reveals that 35,362 of these slum households fall beneath the poverty threshold, resulting in a poverty incidence among slum dwellings at 39.66 percent. Moving beyond poverty ratios, the analysis extends its purview to encompass diverse metrics of income distribution and inequality prevalent among the identified economically disadvantaged. Parameters such as the poverty-gap ratio, depth of poverty, severity of poverty, and indices gauging income distribution unveil the subtleties of economic disparities entrenched within the impoverished populace. This meticulous examination of poverty in Madurai, underpinned by the assiduous analysis of secondary data amassed by the Madurai Municipal Corporation in 1998, furnishes an extensive comprehension of the socio-economic terrain. The findings not only illuminate the prevalence of poverty across distinct demographic strata but also contribute significantly to a nuanced understanding of income distribution and inequality within the identified impoverished households. These insights stand as invaluable pillars for judicious policy formulation and targeted interventions geared towards ameliorating poverty in the region.

Homelessness: A Call for Action

The global crisis of homelessness extends across borders, impacting those who struggle to secure regular, safe, and stable housing. The rise in homelessness is linked to factors such as inadequate housing, unemployment, sickness, disability, widowhood, and old age. In India, the severity is evident, with 1.77 million people lacking adequate shelter, and 35 percent earning $1 or less per day in Madurai city alone. Madurai reveals the socio-economic vulnerability of the homeless, emphasizing inadequate housing, unemployment, sickness, disability, widowhood, and old age as primary causes. The dire situation demands urgent comprehensive strategies to address their challenges.[11] A survey of 53 respondents in Madurai district highlights Unemployment and Extreme Poverty as major reasons for homelessness (57.4%). Abandonment by family (11.1%) and stigmatizing illnesses (100%) also contribute. Outside Madurai, Unemployment and Extreme Poverty prevail (42.6%), with Abandonment by family leading (88.9%). Homelessness seldom occurs in isolation; it results from a combination of life challenges, including unemployment, poverty, substance abuse, familial rejection, and mental illness. Identified areas with high homeless concentrations include Tallakulam Perumal Temple, Periyar Bus Stand, Meenakshi Amman Temple, Thiruparankundram, and the railway station. By comprehensively addressing these issues, policymakers can significantly improve living conditions for the homeless population in Madurai and beyond.[12]

The Ecological Impact of Infrastructure Expansion on Land Cover and Biodiversity

The expansion of infrastructure, including roads, residential areas, and commercial spaces, poses a threat to natural vegetation and agricultural land. Shifts in agricultural practices towards more intensive farming methods further impact land cover. Deforestation for various purposes, such as agriculture, logging, and infrastructure development, contributes significantly to alterations in land cover. This process disrupts the natural balance, diminishes biodiversity, and accelerates soil erosion. The growing population often drives urban expansion into rural areas, converting agricultural land and natural habitats into residential or industrial zones. Changes in water management, like dam construction and irrigation systems, can modify the natural landscape, influencing vegetation cover and overall land use patterns. Climate variations can also affect land cover by altering vegetation types and distribution, with extreme weather events like floods and droughts playing a role. Improper waste disposal and pollution from agricultural runoff or industrial activities degrade land quality, impacting soil health and vegetation cover. Addressing these issues is crucial to maintaining a sustainable and balanced relationship between human development and the preservation of natural ecosystems.[13]

Urban Expansion, Land Use Dynamics, and Sustainable Development

Madurai, once a modest town covering a mere 2.60 square kilometers with 46,000 residents, has undergone substantial expansion. In 1991 and 2001, it burgeoned to an extensive 5182.31 square kilometers, accommodating around 13.30 lakhs. The transformation spans diverse land uses, such as residential, commercial, industrial, public office, recreational, and miscellaneous areas.

Residential zones encompassed 1969.07 hectares (37.98% of total land), while the "other" category claimed 1516.55 hectares (29.25%). Transport and communication infrastructure utilized 740.55 hectares (14.30%), and industrial zones covered 206.15 hectares (3.97%). Commercial and recreational areas occupied 196 hectares (3.78%) and 30.72 hectares (0.59%) respectively. From 1961 to 2001, Madurai's area surged from 2307.42 to 5182.31 hectares. Residential zones notably increased by 1074.54 hectares, indicating housing growth. The city's connectivity and infrastructure saw a 389.47-hectare expansion. Administrative and public service areas grew by 268.10 hectares, while industrial, commercial, and recreational spaces increased by 130.16, 147.06, and 140.1 hectares respectively. Despite overall growth, the need for attention to recreational areas is apparent. These land use changes have implications for Madurai's social and physical environment. Rapid population growth and evolving land patterns pose social and environmental challenges, emphasizing the need for sustainable urban planning.

In housing, slum, and urban infrastructure, Madurai has witnessed transformations. Housing decreased from 93% to 84%, linked to deteriorating structures in the old city and the rise of informal settlements. Between 2001 and 2011, slums expanded from 23.83% to 27.32%, raising concerns about living conditions and urban infrastructure. High congestion in half of the households signifies a pressing issue affecting residents' well-being. Addressing this crisis requires strategic, investment-backed policies for equitable and sustainable urban development. While Madurai possesses a notable percentage of 'good' housing, the decline and proliferation of slums underscore the urgency of reevaluating urban planning. The city's future hinges on providing quality housing and improving living conditions for those in need.

Urbanization Challenges in Madurai Surges, Housing Shortages Inclusive Development

Madurai, in recent decades, has undergone remarkable urban growth, accompanied by a substantial increase in population and infrastructural development. While this urbanization signifies progress, it has simultaneously given rise to multifaceted challenges impacting the quality of life for residents and the overall well-being of the city. One of the foremost challenges confronting Madurai is the unprecedented surge in population, resulting in a critical shortage of affordable housing. This segment delves into the root causes of the population explosion and evaluates its repercussions on housing availability, affordability, and living conditions. The phenomenon of population growth is frequently intertwined with urbanization, as individuals migrate from rural areas to urban hubs in pursuit of enhanced economic opportunities and elevated living standards. This rapid influx places immense strain on existing housing infrastructure. In situations where available land for housing development is scarce, the demand for housing may surpass the available supply, leading to the emergence of informal settlements or slums.

The sudden population surge can overwhelm existing infrastructure, including roads, water supply, and sanitation systems. Inadequate infrastructure further compounds the challenge of efficiently developing new housing projects. Economic disparities play a pivotal role in contributing to housing shortages, as lower-income populations may grapple with the affordability of housing in the face of escalating demand and property prices. Effectively addressing these housing challenges

necessitates the implementation of comprehensive urban planning strategies, substantial investments in infrastructure, and the formulation of policies that foster the development of affordable housing. Madurai's current urbanization trajectory, while indicative of progress, presents challenges that demand thoughtful consideration and strategic intervention. By addressing the interconnected issues of population growth, housing shortages, and economic disparities, the city can pave the way for sustainable and inclusive urban development.

Rural-Urban Migration, Gender Roles, and Socio-Economic Realities in Madurai

The recent analysis of migration data from the 64th round NSSO (2007-08) and Census 2011 highlights a notable surge in internal migration within India. The migration rate, denoting the proportion of migrants in the population, exhibited a substantial disparity between urban (35 percent) and rural (26 percent) areas. Notably, the migration dynamic in rural-urban corridors emerged as a pivotal component, with 91 percent of rural area migrants originating within rural regions, contrasting with the 8 percent from urban areas.

In urban areas, 59 percent migrated from rural regions, while 40 percent originated from urban locales. Consequently, rural-urban migration assumes a pivotal role in the broader migration landscape. Migration, alongside fertility and mortality, stands as a crucial factor influencing demographic shifts in a country. Unlike fertility and mortality, which operate within a biological framework, migration impacts population size, composition, and distribution, exerting profound effects on social, political, and economic aspects of people's lives. Recognizing the heterogeneous nature of migration processes, a universal definition proves elusive. Generally, migration entails individuals or groups relocating from one residence to another. A significant migration trend observed is rural to urban migration, representing the movement from countryside to cities in pursuit of diverse opportunities.

The Indian constitution guarantees fundamental freedoms, allowing citizens to move freely within the country, reside anywhere, and pursue their chosen livelihoods without registration requirements at the place of origin or destination. An essential aspect of migration study involves examining rural-urban migration driven by various social, economic, or political factors. In a vast country like India, comprehending population movements across different regions aids in better understanding societal dynamics Against the backdrop of economic development and increasing participation of women in construction work, it is crucial to acknowledge their integral role in the unorganized sector. Women, constituting nearly half of India's population, play a pivotal role in income-generating activities, contributing to family income and fostering economic independence. However, women engaged in construction work face challenges such as lower wages, workplace exploitation, and reliance on children's labor to supplement family income. These women often migrate from different regions, adopting a nomadic lifestyle, and face inadequate access to healthcare, education, permanent housing, and essential amenities the socio-economic status of migrant women construction laborers, aiming to identify and address the myriad challenges they encounter. In doing so, it sheds light on the complex interplay of migration, gender dynamics, and socio-economic realities in contemporary India.

The demographic profile and socio-economic characteristics of the respondents in the study reveal noteworthy trends and patterns, shedding light on the dynamics within the construction labor sector.

- The largest proportion of respondents, constituting 44%, falls within the age bracket of 26-35 years.
- A substantial 70% of construction laborers are cohabiting with their spouses, emphasizing the prevalence of familial ties within this demographic.
- A striking 97% of the respondents identify as Hindus, reflecting a dominant religious affiliation within the construction labor community.
- A significant 66% of the construction laborers belong to the Most Backward Community, underscoring the socio-economic composition of the workforce.
- Almost half of the respondents (48%) have received education only up to the primary level, indicating a lower level of formal education within the surveyed group.
- The majority of female construction laborers (unspecified percentage) earn in the range of Rs.3000-Rs.5000, highlighting a specific income bracket prevalent among this demographic.
- A substantial 82% of construction workers live in nuclear families, pointing towards a family unit structure that predominantly consists of parents and children.
- A notable 60% of laborers reside in rural areas, suggesting a significant rural-urban divide in the distribution of construction labor.
- Nearly half of the respondents (49%) live in rented houses, indicating a prevalent trend of non-permanent residence within the construction labor community.
- Almost half (48%) of the construction laborers perceive their work as hazardous, reflecting the occupational risks associated with the industry.
- An overwhelming 80% of the respondents express a lack of willingness to spend money on entertainment, emphasizing financial conservatism within the community.
- A notable 36% of the respondents highlight concerns about male domination and gender discrimination within the construction labor sector.
- A significant 68% of respondents resort to borrowing money from money lenders, revealing a reliance on external financial sources.
- Sixty percent of construction workers adopt various savings methods such as chit funds, banks, co-operative societies, post offices, relatives, friends, and self-help groups for unforeseen expenditures and future needs.
- Fifty-two percent of respondents borrow money from money lenders or relatives and prefer private hospitals for better healthcare services.
- A majority (65%) of respondents report having good relationships with their co-workers, indicating a positive interpersonal environment within the construction labor community.
- The primary reasons for opting for construction work include the perception of higher wages (38.29%), the absence of stringent skill requirements, and the satisfaction with daily wage structures (12.86%).

- Fifty percent of workers receive a daily wage ranging between 100 and 150, with variations based on skill levels, emphasizing the wage disparity within the sector.
- The majority (33.3%) of workers earn between 1000 and 1500 per month, with skilled workers engaged in activities like masonry and plastering earning higher monthly incomes ranging between 3000 and 4000.

These findings provide a comprehensive understanding of the socio-economic landscape of the construction labor sector, offering valuable insights for policy formulation and intervention strategies.

Slums in Madurai City and Navigating Complex Socio-Economic Factors

Madurai city has witnessed a staggering six-fold increase in slums from 36 in 1967 to 208 in 1998. The surge is linked to factors like industrial growth and rural-urban migration due to drought conditions in neighboring districts. Slums are concentrated along the River Vaigai and Madurai-Ramasewaram Railway line, notably in wards 4, 10, 18, 31, and 59, accounting for 30% of the city's population. Of the 208 slums, 17 are on corporation lands, 16 on temple lands, and 175 on government and private lands, with an average density of 2636 people per square kilometer. Certain areas show high population densities due to proximity to commercial areas and transport terminals. Understanding historical and geographical contexts is vital for effective urban planning to address the complex socio-economic factors fueling slum growth in Madurai.

Urban sprawl in Madurai has been diligently monitored using remote sensing and change detection techniques. Initial methods involved red band differencing to identify changes in residential land cover and vegetation loss. However, this method lacked specificity. To overcome this, the post-classification comparison method was employed, offering detailed insights into urban sprawl. Analysis revealed significant urban expansion, particularly in Aarapalayam, Thiruppalai, and Anna Nagar, leading to a 14.2 square kilometer increase over eight years.

The post-classification technique outperformed red band differencing, providing comprehensive information about the types of changes in Madurai. Considering technological advancements, the state government contemplates constructing a satellite town linked to Madurai, focusing on low sprawl rate sectors. This strategic land selection aims to address various socio-economic and environmental concerns, emphasizing the importance of urban planning reflecting regional development. Madurai's rich historical backdrop, with small natural tanks and meandering streams, has shaped its unique landscape.

The River Vaigai and associated tanks, once revered as sacred entities, now face challenges due to urbanization. Traditional ghats, integral to social and cultural rituals, have been dismantled, altering the city's socio cultural fabric. Despite these changes, Madurai's connection to water sources remains ingrained in its identity. The River Vaigai, adorned with temples like Neeryazhi Mandapam and Vandiyur Mandapam, reflects the enduring cultural significance of water bodies. The interplay between water, sacred structures, and cultural practices weaves a narrative that transcends time, bridging tradition with modernization in Madurai's history.

The passage sheds light on the existence of contaminants, namely fluoride, nitrate, and arsenic, within groundwater. However, it is noteworthy that the text lacks precise information regarding monitoring and management strategies. Unattended levels of fluoride present potential health risks, and the widespread prevalence of nitrate, stemming from agricultural activities, necessitates vigilant oversight and effective mitigation. Likewise, while arsenic is acknowledged as a toxic heavy metal in groundwater, the text fails to provide in-depth insights into monitoring and management strategies, underscoring the crucial need for robust measures to prevent health hazards. As the extraction of water resources intensifies, the text underscores the growing importance of evaluating and addressing groundwater quality. In the absence of adequate measures, heightened extraction has the potential to worsen existing water quality issues and environmental challenges. This emphasizes the urgent requirement for comprehensive monitoring and management strategies. Despite addressing various water quality concerns, the text lacks specificity in outlining mitigation strategies. The deficiency of effective mitigation strategies raises concerns about the persistence and exacerbation of identified water quality issues over time. Resolving these challenges necessitates the implementation of sustainable water management practices, the reinforcement of monitoring systems, and the development of comprehensive strategies to effectively mitigate water quality issues. The escalating extraction of water resources, as highlighted in the text, poses multifaceted environmental challenges, demanding immediate attention. The lack of quantification, monitoring details, and mitigation strategies underscores the urgency for comprehensive, sustainable water management practices. Addressing these issues is imperative to safeguard water quality across various sectors and mitigate the environmental consequences associated with escalating water extraction.

Conclusion

The social issues stemming from urban transformation in Madurai highlight a complex interplay between development initiatives and the well-being of its residents. While urban transformation projects aim to enhance infrastructure, economic growth, and overall living standards, they also give rise to a set of challenges that must be addressed. One notable concern is the potential displacement of marginalized communities and the impact on their social fabric. Gentrification and the rise in property prices can force existing residents out of their neighborhoods, leading to the erosion of longstanding social networks and cultural ties. Adequate measures need to be taken to ensure inclusive development, providing affordable housing options and safeguarding the rights of vulnerable populations. Another social issue is the strain on basic services and resources as urban areas undergo rapid transformation. Increased population density can overburden existing healthcare, education, and sanitation systems, impacting the quality of life for residents. Comprehensive urban planning that anticipates these challenges and implements sustainable solutions is essential to mitigate these adverse effects. Furthermore, the transformation may result in disparities in access to employment opportunities, educational facilities, and public services. Bridging these gaps requires targeted policies that prioritize equitable distribution of resources and ensure that the benefits of urban development are shared by all segments of society. In addressing the social issues of urban transformation in Madurai, it is imperative for policymakers, community leaders, and urban planners to

collaborate closely. Inclusive, participatory decision-making processes should be implemented to incorporate the diverse perspectives and needs of the local population. Through a holistic and people-centric approach, the city can navigate the challenges posed by urban transformation while fostering a socially sustainable and harmonious environment for its residents.

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