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Annexure-I

Questionnaires for household Survey

Demography	Code for Indore (I……) / Varanasi (V….)	Indore / Varanasi		
		Age		
		Gender	Male	
			Female	
		Education	Primary	
			High School	
			Intermediate	
			Graduation	
			Post-Graduation	
		Occupation	Student	
			Job	
			Business	
			Retired	
			Unemployed	
		Income (monthly)	Less Than 10000	
			10000-25000	
			25000-50000	
			More Than 50000	
		Location of ward		
Capability (C)	Physical capability			
	IPC-1 /VPC1	Does Varanasi provide adequate bins and segregation facilities for effective waste disposal	2 Type Bin	
			3 Type Bin	
			4 Type Bin	
			5 Type Bin	
			6 Type Bin	
	IPC-2 / VPC-2	How accessible are waste collection points in different neighbourhoods of Varanasi	Difficult	
			Easy	
			Very Easy	
	IPC-3 /VPC-3	Are there physical barriers (e.g., distance, safety) hindering waste disposal in Varanasi	No	
			Yes	
			No	

	IPC-4 /VPC-4	Do waste workers have sufficient protective gear i.e. mask & Gloves and equipment's	Yes	
	IPC-5 /VPC-5	How frequent and reliable is door-to-door waste collection in Varanasi	Non Reliable	
			Partially Reliable	
			Can't Say	
			Reliable	
			More Reliable	
	Psychological capability			
	IPSC-1 / VPSC-1	Are residents in Varanasi aware of how to segregate organic, recyclable, and hazardous waste	1 No	
			2 Some What	
			3 Yes	
	IPSC-2 / VPSC-2	Has Varanasi conducted workshops/school programs to educate residents about waste management	No	
			Yes	
	IPSC-3 / VPSC-3	Do resident know about health impact	1 Not At All	
			2	
			3 Somewhat	
			4	
			5 Very Well	
	IPSC-4 / VPSC-4	Are waste workers trained to handle advanced technologies (e.g., composting machines)	No	
			Yes	
	IPSC-5 / VPSC-5	How much resident are familiar with city policy of waste	1 Not At All	
			2	
			3 Somewhat	
			4	
			5 Very Well	
Opportunity (O)	Physical Opportunity			
	IPO -1/ VPO-1	Does Varanasi have enough recycling plants/landfills to	1 No	
			2 Don't Know	
			3 Yes	

		manage daily waste volumes		
	IPO-2 / VPO-2	Are there separate bins for wet/dry/hazardous waste in public spaces	No	
			Yes	
	IPO-3/ VPO-3	Is there a system to repair broken waste infrastructure promptly	No	
			Yes	
			Don't Know	
	IPO-4 / VPO-4	Are composting facilities accessible to households in city's?	No	
			Yes	
			Don't Know	
	IPO-5 / VPO-5	Does Varanasi use technology (e.g., apps) to streamline waste collection	No	
			Yes	
	Social opportunity			
	ISO-1 / VSO-1	Do community leaders in city actively promote waste segregation	No	
			Yes	
	ISO-2 / VSO-2	Are there penalties for littering/illegal dumping enforced consistently	No	
			Yes	
			Don't Know	
	ISO-3 / VSO-3	Do religious/cultural events in incorporate waste management practices	No	
			Yes	
	ISO-4 / VSO-4	Are residents encouraged to report neighbors violating waste rules?	No	
			Yes	
			Sometimes	
	ISO-5 / VSO-5	Do local media highlight successful waste management initiatives	Never	
			Sometimes	
			Always	
Motivation (M)	Automatic motivation			
	IAM-1 / VAM-1	Do residents habitually segregate waste without reminders	No	
			Yes	
	IAM-2 / VAM-2	Are clean streets in city's perceived as a social norm	No	
			Yes	
			Don't Know	
	IAM -3 / VAM-3	Does Varanasi use signage/art to nudge residents toward proper disposal	No	
			Yes	

	IAM-4 / VAM-4	Are there immediate rewards (e.g., discounts) for using green practices	No	
			Yes	
			Don't Know	
	IAM-5 / VAM-5	Do residents feel guilt/shame for improper waste disposal	No	
			Sometimes	
			Always	
			Don't	
	Reflective motivation			
	IRM-1 /VRM-1	Do residents believe their efforts improve Varanasi's cleanliness?	No	
			Yes	
	IRM-2 /VRM-2	Are tax rebates/financial incentives offered for recycling	No	
			Yes	
			Don't Know	
	IRM-3 /VRM-3	How satisfied are residents with Varanasi's waste management services	1 Not At All	
			2	
			3 Some What	
			4	
			5 Very Satisfied	
	IRM-4 /VRM-4	Are long-term environmental benefits emphasized in campaigns	No	
			Yes	
			Don't Know	
	IRM-5 /VRM-5	Are residents involved in planning Varanasi's waste policies	No	
			Yes	

Annexure-II

Table: APEASE criteria for COM-B Model.

Criteria	**Questions to be Consider**
Acceptability (**A**)	How far is it acceptable to all key stakeholders?
Practicability (**P**)	Can it be implemented as designed within the intended context, material and human resources?
Effectiveness (**E**)	How effective and cost-effective is it in achieving desired objectives in the target population?
Affordability (**A**)	How far can it be afforded when delivered at the scale intended?
Side-effects (**S**)	How far does it lead to unintended adverse or beneficial outcomes?
Equity (**E**)	How far does it increase or decrease differences between advantaged and disadvantaged sectors of society?

5.1 Background of study Area-I (Indore city)

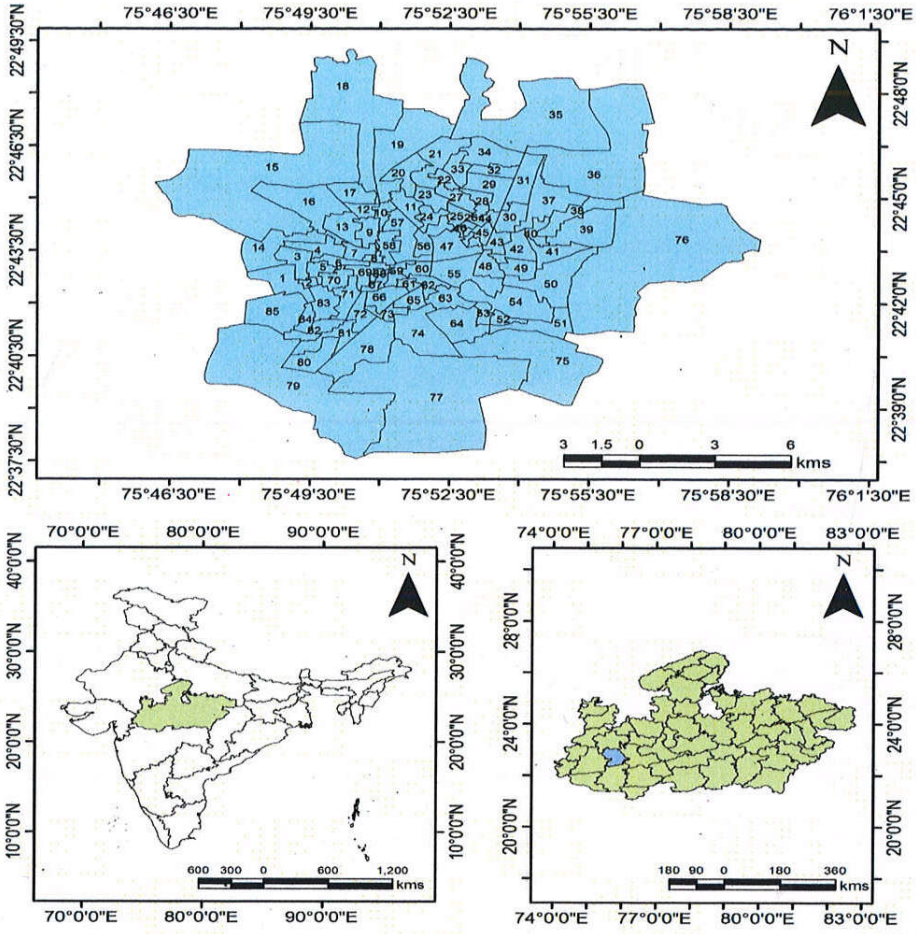

Figure 5.1 : Ward map of study area I – Indore.

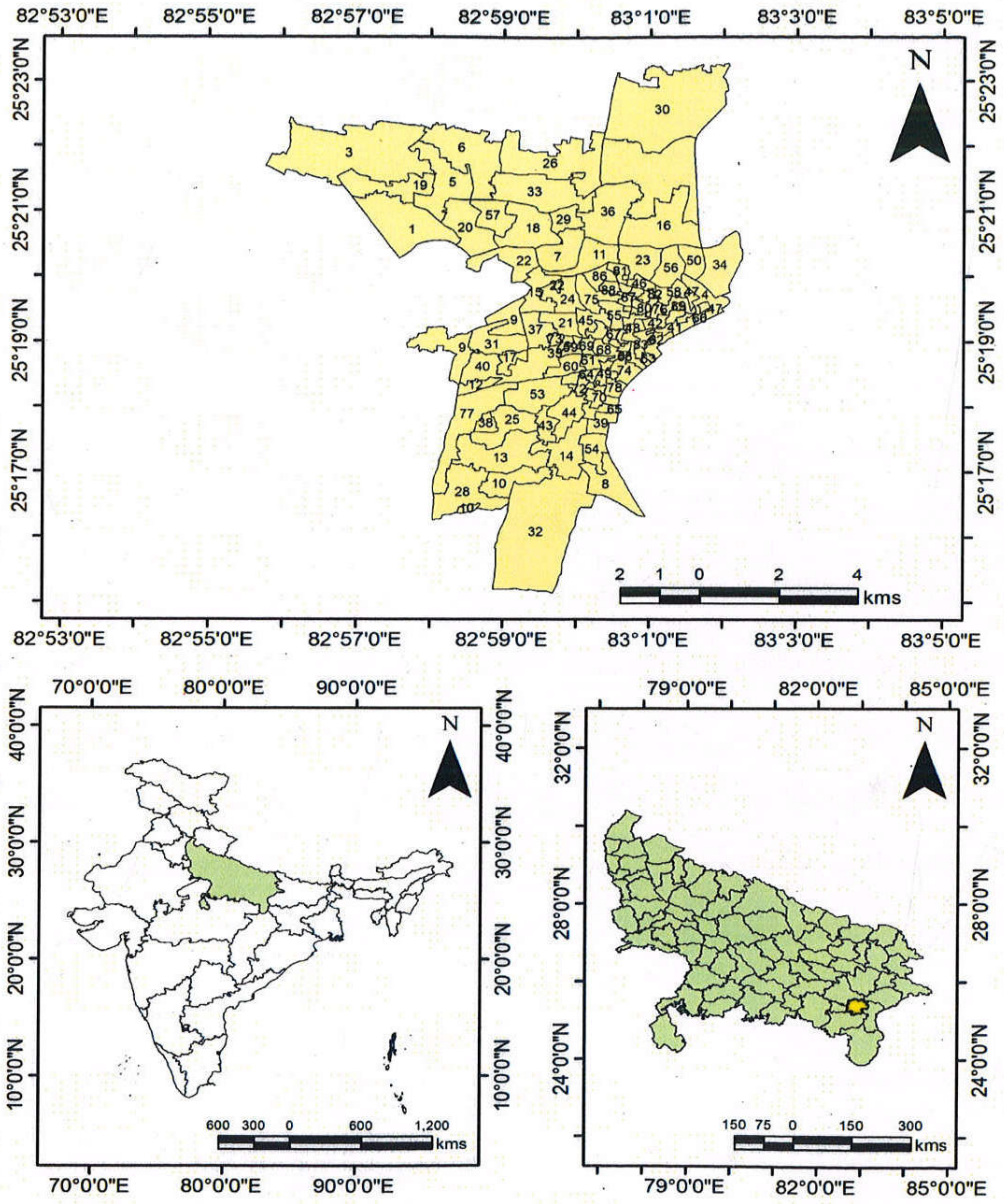

Figure 5.38: Profile of study area –ii (Varanasi).

Chapter 5.3 Comparative analysis of Technical & behavioral aspect two Cities Indore & Varanasi.

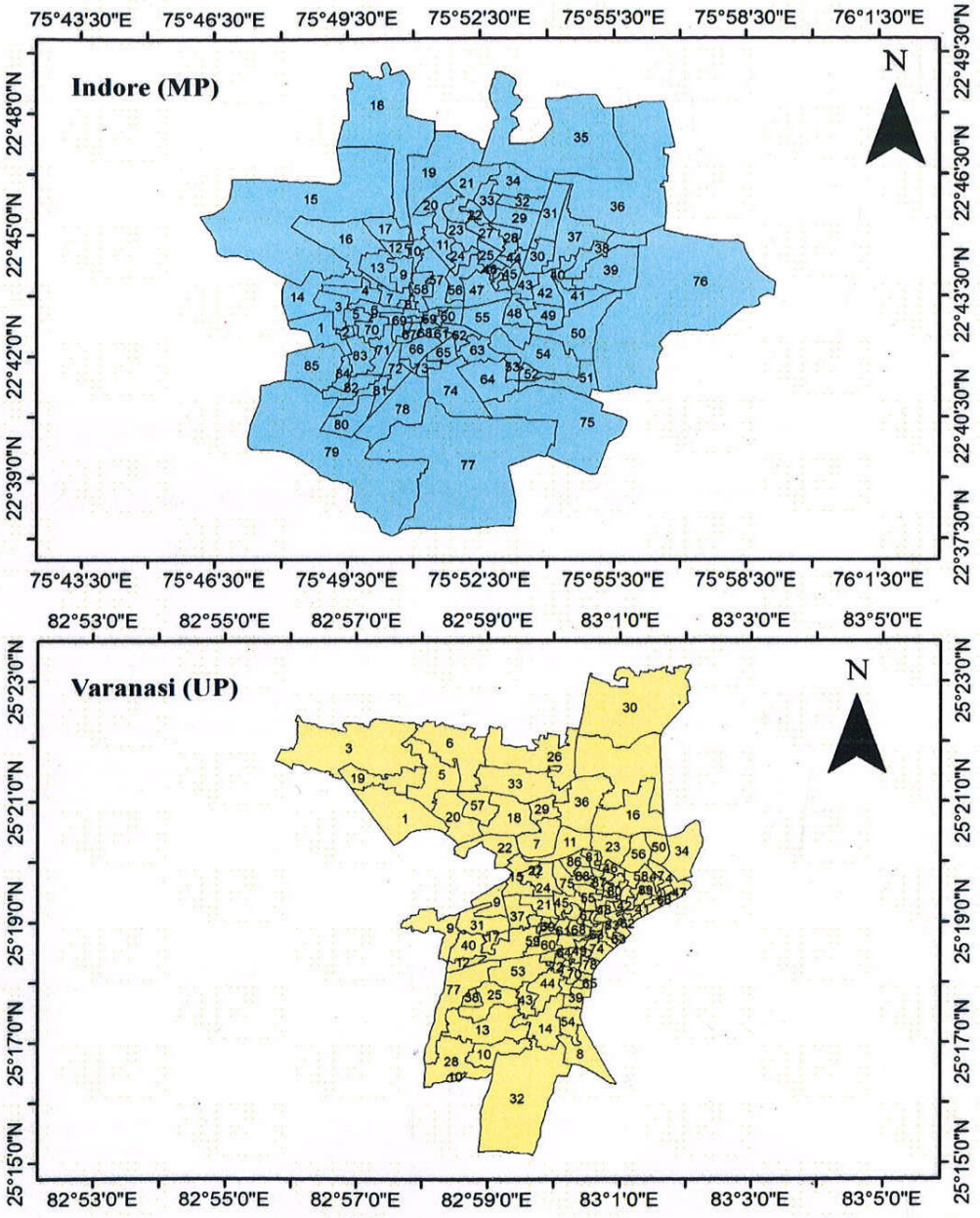

Figure 5.76: ward-wise map of Indore and Varanasi.

List of Publications

This thesis is based on the peer reviewed papers that are associated with the work mentioned:

Scopus or/and Emerging Source Citation / Web of Science Indexed Journal Published Papers:

- **Dubey, R**., Rathore, D., Dwivedi, A., & Kumar Singh, P. (2025). A comprehensive study on municipal solid waste management practices in Jamshedpur City, India. Asian Journal of Water Environment and Pollution, 22(1), 22.
- **Dubey, R**., Rathore, D., & Dwivedi, A. (2025) Municipal Solid Waste Management in an Urban Setting in India: A Case Study of Prayagraj City.
- Rathore, D., **Dubey, R**., Dwivedi, A., & Singh, RS. (2025) "Analysis of Solid Waste Management Scenarios in India: A Comparative Case Study of Indore and Varanasi with Special Emphasis on Policy Gaps and Interventions", Space and Culture, India, 12(4), pp. 99–113. doi:10.20896/pzbj0q94.
- **Dubey R,** Dwivedi A, Singh, P.K., and Vanela SP., (2025)"Circularity in MSW Management: The Role of Information Education and Communication in Concurrent with Behaviour Change Communication". Journal of Human Ecology, Current Status: Accepted for Publication.
- **Dubey, R**., Gupta, S., & Dwivedi, A. (2025). Transforming Organic waste in Varanasi: A study on decentralized biogas plants and policy recommendations. International Research Journal of Multidisciplinary Scope, Current Status: Accepted for Publication.

Book Chapters:

- **Dubey, R**., Rathore, D., & Dwivedi, A. (2023). Organic waste decomposition by microbial inoculants as an effective tool for environmental management. In Microbial Inoculants (pp. 125-147). Academic Press.
- **Dubey, R.,** & Dwivedi, A. (2023). City Compost: A Solution to Organic Waste Management and Boost to Urban Soil. In A. Dwivedi (Ed.), Waste Management, Sanitation and Society (pp. 135–147). Cambridge Scholars Publishing.