

## Shimla sensitivity analysis

Sensitivity analysis is carried out to check financial viability of public toilet operations under different conditions. For this purpose certain key parameters are selected against which sensitivity is tested across other parameters. In Tirupati case, sensitivity was tested for impact on the financial support required from TMC for the project, while ensuring a certain profit margin for operator. In Shimla's case, sensitivity was checked on the potential revenues under different user charge regimes for a given footfall and for a given user charges what if footfalls vary. The idea of this analysis is to simulate various real-life conditions to understand the potential areas of failure and risks. Consequently, plan for the same while contracting out, while ensuring the service levels are not compromised.

The below table summarizes the PT sensitivity analysis outcomes for Shimla

Table 14: Sensitivity Analysis

Footfall	Scenarios	Description of Scenarios	Investment required (Rs. Cr)	Expected Revenue (in Rs. Cr)	Estimated O&M cost (Rs. Cr)	Shortfall in Opex (Rs. Cr)	Shortfall in Capex + Opex (Rs. Cr)	User fee for Urinals (Rs.per use)	User fee for men toilet (Rs.per use)	User fee for women toilet (Rs.per use)
As per inventory	Scenario 1	Assuming no charges for urinals and charging same user fee for other facilities	1.84	1.65	2.30	0.65	2.49	0	3	2
	Scenario 2	Assuming charging urinals @ Rs. 1/use across all the toilets in Shimla for the footfalls as provided in inventory	1.84	3.27	2.30	-1.03	0.81	1	3	2
	Scenario 3	Keeping charges for urinals zero, the rates at which Opex are covered through user fee revenue + ad revenue (assuming no charges for community toilets)	1.84	2.30	2.30	0.0	1.84	0	5	5
At 70% of that indicated in the inventory	Scenario 4	Assuming no charges for urinals and charging same user fee for other facilities	1.84	1.20	2.30	1.10	2.94	0	3	2
	Scenario 5	Assuming charging urinals @ Rs. 1/use across all the toilets in Shimla for the footfalls as provided in inventory	1.84	2.34	2.30	0.04	1.88	1	3	2
	Scenario 6	Keeping charges for urinals zero, the rates at which Opex are covered through user fee revenue + ad revenue	1.84	3.34	2.30	-1.04	0.80	1	5	5