

## 5.5 CYCLE TRACKS

Bicycles are the low cost and easiest form of transport mode that is used to reduce environmental pollution and to use as eco friendly. For the low income countries, especially like India the developing country, bicycles offers a good option to use when it becomes difficult to use motorized vehicles.

Cycling is amongst the most sustainable modes of mobility, which has zero dependence on fossil fuels and zero emissions unlike the motorized modes of transport, which have huge negative externalities, namely- accidents, congestion, fossil energy use, and environmental degradation.

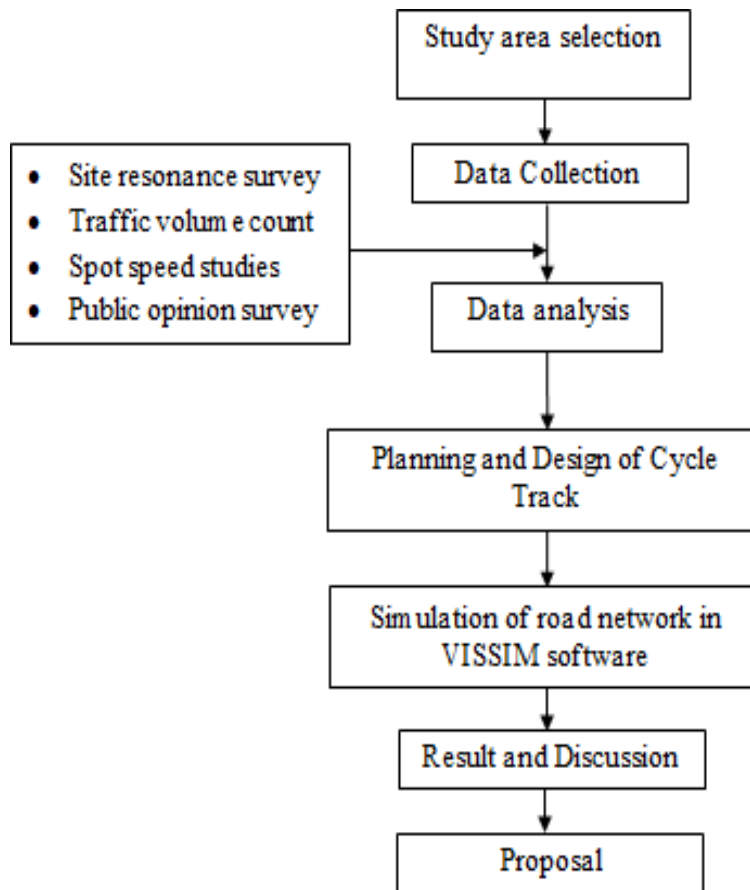
Cycling, in fact, is associated with positive externalities like health improvements, congestion reduction, lessening of air pollution and greenhouse gas (GHG) emissions, and minimizing energy use. In addition to these positive impacts, in the context of a developing country like India, cycling presents the most affordable and efficient means of travel for low-income households who find it difficult to afford most motorized transport options.

Proper design of cycle track enables to reduce conflicts between other motorists and it also ensures the safety of cyclists. It has more beneficiary advantages like health, reduction in traffic jams, saving fuel costs, eco mobility transport, environmental friendly etc.

The properly designed cycle track provides the travel pattern of motorized as well as non motorized vehicles without causing disturbance to large and high speed moving vehicles and also helps in encouraging the bicycle users



## Methodology



**Fig.1.** Methodology adopted for the study.

The methodology for the present study consists of selection of study area. Main criteria adopted for selection of study area was, more number of cycle traffic. In cities more of cycle users are students. Based on the data analysis results planning and design of the work to be made. Required input for the VISSIM software for simulation can be generated. Precise output can be drawn from the software after calibration.