1. Traffic Volume Studies

Data Collection

- ☐ Observation- Classified Vehicle Counts
- ☐ Method- Manual
- ☐ Equipment- Hand counter, Tally Sheet, Clip board etc
- ☐ Location- Mid-block
- ☐ Duration- 30 minute (short count)
- ☐ Sampling- Count all vehicles
- ☐ Enumerators- 6 nos.
- ☐ Group activity- Each enumerator would count a specific vehicle (s) type

Survey Tips

Before data collection

- ☐ Find the suitable site for observation i.e. at what location of the road and from which position (at/above ground)
- ☐ Check/calibrate the counters (hand tally)
- ☐ Perform a trial survey to familiarize with the job and to find any problem in vehicle counting

Data Sheet

Location of Survey:
Date of Survey:
Time of survey:
Duration of Survey:
Method:
Enumerators:

Table: Sample Data Sheet for Volume Study

Vehicle Classification	**Observation in 30 min**
Bus (B)	
Car, Jeep, Micro, Taxi	
Auto Rickshaw (AR)	
Motor Cycle (MC)	
NMV	
Total=	

Data Analysis

- ☐ For each direction
  - Determine vehicle composition of traffic stream and show in a Pie-chart
  - Determine service flow rate in PCU/PCE unit
  - Determine directional distribution (DD)
  - Peak hour flow (PHF)
- ☐ For whole width of the road
  - Estimate average annual daily traffic AADT based on expansion factors

$$\text{HEF} = \frac{\text{Total volume for 24 hour period}}{\text{Volume for particular hour}}$$

$$\text{DEF} = \frac{\text{Average total volume for a week}}{\text{Average volume for particular day}}$$

$$\text{MEF} = \frac{\text{AADT}}{\text{ADT for particular month}}$$

  - Draw flow-fluctuation curve (sharing other groups data)