



Optimal Transportation for Routes

Overview:

BMTCL is not making profit in multiple routes. One factor is the bus sizes which are not optimized for the route. Size of buses are also proving to be a constraint on providing last mile connectivity. Large buses cannot enter narrow roads which smaller buses can. But again, cost of operations in running smaller buses is much higher. There are similar considerations for engine size (do not need to have 8L engines on routes where buses usually go faster than 40 kmph. Engine sizes have a direct bearing on fuel efficiency and speed). There is a need to find out the 'right bus size – route' combination.

Problem statement:

- What sizes/engine capacity of buses are suitable for different routes/locations in Bangalore?
- Are certain routes better left for private operators (for eg. Most of the smaller buses in Bangalore are run by private operators)

Indicative Factors that may be considered:

- 1. Traffic flow**
- 2. Route plans**
- 3. Engine capacity /Speed**
- 4. Availability of private bus operators**