

---

## CHAPTER - 6.

---

### 6.1 Conclusions & Suggestions

## 6.1 Conclusions And Suggestions :-

The present study analysis the data collected from Kolhapur Municipal Transport. One can use the package to any area of interest like --

- 1) Production
- 2) Planning
- 3) Stock Control
- 4) Reservation
- 5) Investment etc.

The study made here re-distributes the total number of buses available with the Kolhapur Municipal Transport. ✓

### Conclusions

The present study is carried out for the data collected on first April, 1998. The same can be done for the present data where we have more buses added to Kolhapur Municipal Transport and the results may turn out fruitful to Kolhapur Municipal Transport.

We may conclude from the analysis that Kolhapur Municipal Transport should run buses to each Control Point as follows --

i) Bhawani Mandap	: - 13 buses
ii) Shivaji Putla	: - 06 buses
iii) Gangavesh	: - 09 buses
iv) Shahu Maidan	: - 06 buses
v) Maharana Pratap Chowk	: - 04 buses
vi) Sonya Maruti Chowk	: - 02 buses
Total	: - <u>40 buses</u>

The above schedule is expected to increase the revenue earned by 0.63 Paise for each Kilometer if occupancy is given first priority over revenue earned.

Whereas if revenue is given first priority over occupancy, the optimal distribution of buses will be as follows -

i) Bhawani Mandap	: - 14 buses
ii) Shivaji Putla	: - 05 buses
iii) Gangavesh	: - 09 buses
iv) Shahu Maidan	: - 06 buses
v) Maharana Pratap Chowk	: - 04 buses
vi) Sonya Maruti Chowk	: - 02 buses
Total	: - <u>40 buses</u>

The above observation is expected to increase the revenue earned by Rs. 1.36 per Kilometer.

Kolhapur Municipal Transport may use this Software Package in --

Investment, Fuel efficiency etc.

The Goal Programming software package can be applied to any area of interest.

### Suggestions

The study may become more valuable if (we are) further solving it for the total number of trips a bus should do per day.

Kolhapur Municipal Transport should run the buses as per the optimal solution obtained by running Goal Programming Package which may provide better service to passengers and good return in terms of revenue to Kolhapur Municipal Transport.

Kolhapur Municipal Transport should stick to their time schedule for running the buses, which may motivate the passengers to travel by bus rather than by rickshaw.

They must keep good, neat and accurate record of all actual data pertaining to daily transport transactions.

Kolhapur Municipal Transport should give prompt attention to breakdown vehicals regarding repairs.

Goal Programming Problem may be reformulated to calculate allocation of buses in terms of travel time.

A program should be developed in Lotus to convert the formulated problem in ASCII which may be used directly by BASIC Language program which will avoid data entry operations.

They should keep suficiant number of buses to be used in case of breakdown.