The Public Administration Help Tank

INODA

and

Rotary

Madras

The Public Administration Help Tank

Improving Transportation, Culture, Environment and Quality of Life

Auto Fares

Negotiated Based on Historical Fares

Auto Fares

Time Fare is forgotten!

So any revision will not be remunerative in crowded traffic

The Problem

- Fares not linked to costs
- Time cost not considered
- Permits not related to demand
- Licensing not to knowledge
- Outdated engineering
- Exploitative culture at all levels

Autos and Chennai

Only to-door service in Madras

Small turning radius

 Social contribution of autos to be realised by Government and public

The Public's Prayer

- Any time, any place
- Available where they want
- No tampered meters
- Courtesy
- Reasonable fare
- No wars when petrol prices go up

The Auto Driver's Prayer

- Decent living income
- Freedom from financiers/ owner cartels
- No bureaucratic harassment
- Security for family and future
- Respectability

The Caution

- High fares chases away customers
- Low income chases away good drivers

The Facts of Life

- Demand decides fares
 - More demand less expensive

- City size decides structure
 - Small towns will have point fares
 - Large cities can afford lower fares

If projects can be costed, why not auto fares?

If you pay peanuts, you will get only monkeys to work for you

Elements of Cost Accounting

- Fixed Cost- Overheads
- Variable Cost- Fuel and maintenance
- Labour

Call it any other way-- Cost is a fact

Some Stats: Revenue Days

| Days in a year | | 365 |
|-------------------------------------|----|-----|
| Sundays/ Weekly off | 52 | |
| Festival Holidays | 13 | |
| Breakdowns, Service | 12 | |
| FC Preparation | 10 | |
| Revenue days a year | | 278 |

Costs of Autorickshaw Service

Cost of auto

Rs 80,000

- At 5 year payback @24% IRR and residual Value of Rs 30,000
- Cost per day at 256 days/ yr: Rs 60
- Permit adds Rs 20 per day-- 33%

Unamortisable Permit Cost

Cost of Permit plus expenses

Rs 24,000

Cost per day at256 days/year, 5 years: Rs 20

Why should permits be saleable?

Direct Cost Data

| Revenue Km | per dav | y 100 |
|------------|---------|-------|
| | | |

| Search | 25 |
|--------|----|
| | |

| Empty Returns 4 | 10 |
|-----------------|----|
|-----------------|----|

Shed run10

Total running175 Km/day

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Fuel Costs

Cost of petrol/ Oil Rs 40

Fuel consumption25 - 35 Kmpl

Per Km (5 year auto) 1.35

Per Revenue Km2.35

Re 1 increase in petrol cost, Km charge should increase by 6 paise or 1.5%

Maintenance Costs

- 175 km per day is 50,000 Km per year
- Reboring/ engine work at 2 years
- Cost of tyres, battery
- Insurance, Fitness Certificate

Total: Rs 10,000 / year-- Rs 40 per day

Driver Income: How much

- A PTC driver earns Rs 5000 plus plus
- A household driver earns Rs 4000

- Should cover risk in variation
- Festival assistance/ bonus
- Medical
- Social security-- PF and gratuity

Statistics: Earning Days

Possible Revenue Days 278

Sick Leave/ casual 12

Vacation15

Entwining Sundays (5)

Actual Earning days 256

Earnings Data

| Earning | per month | Rs 3000 |
|---------|-----------|---------|
| | | |

| PF/Savings 12.5 | % 360 |
|-----------------|-------|
|-----------------|-------|

| Medical | protection | 250 |
|----------|------------|-----|
| riculcal | protection | 230 |

- Festival bonus 1 month 250
- Gratuity/ social security 250
- Income required per day 200

Traffic Statistics-- Fare Basis

- 260 working days a year
- 7 revenue hours a day
- 100 revenue Km per day
- 60 search/ return cruising per day
- 15 Km to and from shed
- 25 trips per day

Revenue Required

Fixed Cost
Rs 60 per day

Maintenance40

Fuel 175 Km 235

Driver earning200

Dislocation Adjustment 15

TotalRs 540-600 per day

Simplified Fare basis

Revenue required Rs 540 - 600

Revenue Km per day 100

Per Km rate 5.40 - 6.00

Will not reward short distance rides!

Behavior Rewarding Fare

- Short distance fare to be remunerative!
- Short rides need more time/ search

- Minimum fare
- Per Km rate

Rs 10.00 *for first Km* 4.00

Behavior Rewarding Fare

Income from 100 Km
Rs 400

Minimum from 25 rides 150

Total

 This structure also leaves more money for driver from short rides

Impact of 4 Rupee fare

| Rate | 20 Trips | 25 trips | 30 trips / day |
|----------|----------|----------|----------------|
| 5 per km | 500 | 500 | 500 |
| 4 + 10 | 520 | 550 | 580 |

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Surcharge for better Behavior

- Station/ theatre surcharge
 - Rewards congregation traffic
 - Compensates for empty return
- Luggage/ Third Passenger surcharge
- Night Surcharge: 11pm 6 am 100%
- Petrol Increase Surcharge: 1.5% for every Rupee increase

Traffic Surcharges

- Peak hour surcharge
 - Evens out traffic to all hours
 - Compensates petrol in slow traffic
- Business Area Surcharge
 - Decreases traffic in crowded areas
- Holiday surcharge

Required: Statistics Bank

- Demand Statistics
- Utilisation
- Entry Economics
- Quality of Service

Logic of Fares

- Quality of Service (QoS)
- Demand
- Affordability
- Alternate means

Need for continuous statistics!

QoS: Immediate Availability

More vehicles required Less revenue for each Higher fares required

QoS: Available anywhere

Search cruising increases

QoS: To ply anywhere

Empty cruising increases

QoS: Good quality vehicle

Fixed cost increases

QoS: Knowledgeable driver

Remuneration must be more

Factors of price and traffic

- Total demand in Passenger-Km
- Trips per day
- Trip distance, duration, occupancy
- Empty cruising time and distance

Decides number of permits

Night Service

- Same exercise of demand assessment
- Trip patterns

Government help

- Establish 'Auto Stops'
- Liberty to charge lower fares
- Passenger elected fare sharing
- Driver/ corporate permits
- Statistics bank
- "Auto and Taxi Commission"

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Call Service

- Broadcast system
- Auction for service
- Call Locator
- City identification
- Delinquency and situation control--
 - drivers, passengers, and pranksters

Presentation to

The Commissioner of Traffic Chennai 7 Nov 2002