

Pengiraan berikut menunjukkan tahap kecekapan peruntukan untuk tahun 1970. Pengiraan tersebut berdasarkan kepada fungsi permintaan dan kos sut yang dianggarkan, permintaan dan harga keseimbangan pada tahap kecekapan peruntukan adalah :-

$$\text{Log QD} = \text{Log } 2.0388 - 0.4171 \frac{H}{t} + 0.2702 \frac{\text{Log M}}{t} + 0.0542$$

$$\frac{\text{Log Z}}{t} + 0.5082 \frac{\text{Log QD}}{t-1} + 0.5695 \frac{\text{Log HP}}{t}$$

$$\frac{\text{Log KS}}{t} = \text{Log } 1.1979 - 0.7982 \frac{\text{Log QD}}{t} + 0.0968 \frac{\text{Log QB}}{t}$$

$$+ 0.0782 \frac{\text{Log PBO}}{t} + 0.3037 \frac{\text{Log F}}{t} + 0.5439$$

$$\frac{\text{Log W}}{t} + 0.3734 \frac{\text{Log CB}}{t}$$

Daripada nilai penganggaran :

$$\text{i) } \frac{KS}{t} = \frac{H}{t} \quad \text{dan gantikan } H \text{ dengan } \frac{KS}{t}$$

$$\text{ii) } \frac{M}{t} = 102 \quad \text{x) } \frac{QD}{t} = 119.815$$

$$\text{iii) } \frac{Z}{t} = 8.54 \quad \text{xi) } \frac{HP}{t} = 3.2$$

$$\text{xii) } \frac{H}{t} = 3.54 \quad \text{xii) } \frac{PBO}{t} = 6.1745$$

$$\text{iv) } \frac{W}{t} = 104.25$$

$$\text{v) } \frac{QB}{t} = 12.154$$

$$\text{vi) } \frac{QD}{t-1} = 118.45$$

$$\text{vii) } \frac{CB}{t} = 10.0954$$

$$\text{viii) } \frac{F}{t} = 104.75$$

Data diambil dari jadual 5.3.3

$$\log QD = \frac{\text{Log } 2.0388 - 0.4171}{t} [\text{Log } 1.1979 - 0.7982]$$

$$\begin{aligned} & + \frac{0.0968 \text{ Log } QB}{t} + \frac{0.0782 \text{ Log } PBD}{t} \\ & + \frac{0.3037 \text{ Log } F}{t} + \frac{0.5439 \text{ Log } W}{t} + \frac{0.3734 \text{ Log } CB}{t} \\ & + \frac{0.2702 \text{ Log } M}{t} + \frac{0.0542 \text{ Log } Z}{t} + \frac{0.5082 \text{ Log } QD}{t-1} \\ & + \frac{0.5695 \text{ Log } HP}{t} \end{aligned}$$

$$\begin{aligned} \log QD &= \frac{\text{Log } 2.0388 - 0.4171}{t} [\text{Log } 1.1979 - 0.7982 \text{ Log } QD] \\ &+ 0.0968 \text{ Log } (12.154) + 0.0782 \text{ Log } (6.1745) + \\ & 0.5439 \text{ Log } (104.25) + 0.3037 \text{ Log } (104.75) + 0.3734 \\ & \text{Log } (10.0954)] + 0.2702 \text{ Log } (102.0) + 0.0542 \\ & \text{Log } (8.54) + 0.5082 \text{ Log } (118.45) + 0.5695 \\ & \text{Log } (3.2). \end{aligned}$$

$$\begin{aligned} \log QD &= \frac{0.3094 - 0.4171}{t} [0.0784 - 0.7982 \text{ Log } QD] + \\ & 0.1050 + 0.0618 + 1.0976 + 0.6135 + 0.3749] + \\ & 0.8129 + 0.0505 + 1.0538 + 0.2877. \\ & = 0.3094 - 0.4171 [- 0.7982 \text{ Log } QD + 2.331] \\ & + 0.8129 + 0.0505 + 1.0538 + 0.2877 \\ & = 0.3321 \text{ Log } QD + 0.3094 - 0.9724 + 0.8129 + \\ & 0.0505 + 1.0538 + 0.2877. \end{aligned}$$

$$\log QD - 0.3321 \text{ Log } QD = 1.5419$$

$$\frac{\log QD}{t} = \frac{1.5419}{0.6671} = 2.3114$$

Antilogkan QDt

$$QD = 204.84$$

Oleh kerana $Ht = KSt$, maka Ht sama dengan persamaan KSt dapat digunakan sebagai harga, pada kuantiti 204.84 dan harga :-

$$\frac{\log H}{t} = \frac{\log 1.1979}{t} - 0.7982 \frac{\log QD}{t} + 0.7982 \frac{\log QB}{t}$$

$$+ 0.0782 \frac{\log PBD}{t} + 0.5439 \frac{\log F}{t} + 0.3037$$

$$\frac{\log W}{t} + 0.3734 \frac{\log CB}{t}$$

$$\begin{aligned}\frac{\log H}{t} &= \frac{\log 1.1979}{t} - 0.7982 \log (204.84) + 0.0968 \log \\&(12.154) + 0.0782 \log (6.1745) + 0.5439 \log \\&(104.25) + 0.3037 \log (104.75) + 0.3734 \log \\&(10.0954).\end{aligned}$$

$$\begin{aligned}\frac{\log H}{t} &= 0.0784 - 1.8449 + 0.1050 + 0.0618 + 1.0976 \\&+ 0.6135 + 0.3749.\end{aligned}$$

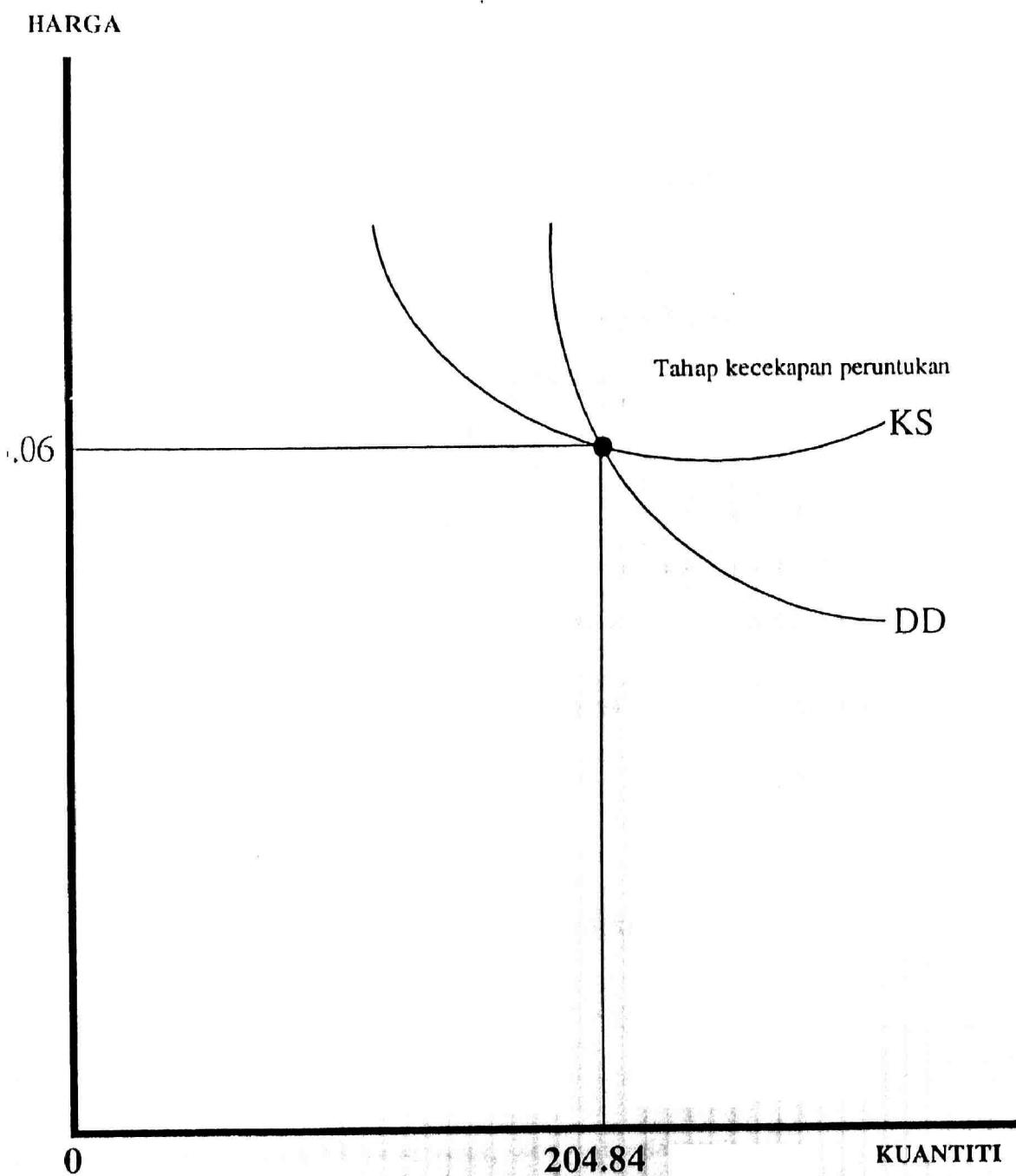
$$= 0.4862$$

Antilogkan Ht

$$\frac{H}{t} = 3.064$$

Tahap kecekapan peruntukan dapat diterangkan dengan meng gunakan Rajah 5.1 dimana harga dan kuantiti keseimbangan adalah pada 3.064 dan 204.64:-

Rajah 5.1 : Menunjukkan tahap kecekapan peruntukan untuk tahun 1970



SUMBER : Pengiraan pada tahun 1970

Lampiran ini menjelaskan perhubungan antara keluk permintaan dan keluk kos sut untuk tahun 1970. Data untuk tahun ini di ambil daripada Jadual 5.3.3. 2 andaian berkenaan dengan kuantiti di minta dilakukan untuk menjelaskan perhubungan antara keluk-keluk tersebut:

A) Andaian pertama.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 200.00. Pada kuantiti ini harga purata yang dikenakan ialah :

$$\begin{aligned} \frac{\text{Log QD}}{t} &= \frac{\text{Log } 2.0388}{t} - \frac{0.4171 \text{ Log H}}{t} + \frac{0.2702 \text{ Log M}}{t} \\ &\quad + \frac{0.0542 \text{ Log Z}}{t} + \frac{0.5082 \text{ Log QD}}{t-1} + 0.5695 \end{aligned}$$

$$\frac{\text{Log HP}}{t}$$

$$\begin{aligned} \frac{0.4171 \text{ Log H}}{t} &= \frac{\text{Log } 2.0388}{t} + \frac{0.2702 \text{ Log M}}{t} + \frac{0.0542 \text{ Log Z}}{t} \\ &\quad + \frac{0.5082 \text{ Log QD}}{t-1} - \frac{\text{Log QD}}{t} + 0.5695 \end{aligned}$$

$$\frac{\text{Log HP}}{t}$$

$$= \text{Log } 2.0388 + 0.2702 \text{ Log } (102.00) + 0.0542$$

$$\text{Log } (8.54) + 0.5082 \text{ Log } (118.45) -$$

$$\text{Log } (200.00) + 0.5695 \text{ Log } (3.2)$$

$$= 0.3094 + 0.8129 + 0.0505 + 1.0538 - 2.3010$$

$$+ 0.2877$$

$$\frac{0.4171 \text{ Log H}}{t} = 0.2133$$

$$\frac{\text{Log H}}{t} = \frac{0.2133}{0.4171} = 0.5113$$

Antilogkan Log Ht

$$\frac{H}{t} = 3.25$$

Pada kuantiti yang sama, kos sut adalah :

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - \frac{0.7982 \text{ Log QD}}{t} + \frac{0.0968 \text{ Log QB}}{t}$$

$$+ \frac{0.0782 \text{ Log PBD}}{t} + \frac{0.3037 \text{ Log F}}{t} + 0.5439$$

$$\frac{\text{Log W}}{t} + \frac{0.3734 \text{ Log CB}}{t}$$

$$\begin{aligned}\text{Log KS} = & \text{ Log } 1.1979 - \frac{0.7982 \text{ Log } (200.00)}{t} + \frac{0.0968 \text{ Log }}{t} \\ & (12.154) + 0.0782 \text{ Log } (6.1745) + 0.3037 \text{ Log } \\ & (104.25) + 0.5439 \text{ Log } (104.75) + 0.3734 \\ & \text{Log } (10.0954)\end{aligned}$$

$$\begin{aligned}\text{Log KS} = & 0.0784 - \frac{1.8367}{t} + 0.1050 + 0.0618 + 1.0976 + \\ & 0.6135 + 0.3749\end{aligned}$$

$$\begin{aligned}\text{Log KS} = & 0.4939 \\ t\end{aligned}$$

Antilogkan Log KSt

$$\begin{aligned}KSt = & 3.118 \\ t\end{aligned}$$

B) Andaian Kedua.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 210.00 . Pada kuantiti ini harga purata yang dikenakan ialah :

$$\begin{aligned}\text{Log QD} = & \text{ Log } 2.0388 - \frac{0.4171 \text{ Log H}}{t} + \frac{0.2702 \text{ Log M}}{t} \\ & + \frac{0.0542 \text{ Log Z}}{t} + \frac{0.5082 \text{ Log QD}}{t-1} + 0.5695\end{aligned}$$

$$\begin{aligned}\text{Log HP} \\ t\end{aligned}$$

$$\begin{aligned}0.4171 \text{ Log H} = & \text{ Log } 2.0388 + \frac{0.2702 \text{ Log M}}{t} + \frac{0.0542 \text{ Log Z}}{t} \\ & + \frac{0.5082 \text{ Log QD}}{t-1} - \frac{\text{Log QD}}{t} + \frac{0.5695 \text{ Log HP}}{t} \\ = & \text{ Log } 2.0388 + 0.2702 \text{ Log } (102.00) + 0.0542 \\ & \text{Log } (8.54) + 0.5082 \text{ Log } (118.45) - \\ & \text{Log } (210.00) + 0.5695 \text{ Log } (3.2)\end{aligned}$$

$$= 0.3094 + 0.8129 + 0.0505 + 1.0528 - 2.322$$

$$+ 0.2877$$

$$\frac{0.4171 \log H}{t} = 0.1921$$

$$\frac{\log H}{t} = \frac{0.1921}{0.4171} = 0.4605$$

Antilogkan Log Ht

$$\frac{H}{t} = 2.89$$

Pada kuantiti yang sama, kos sut adalah :

$$\begin{aligned}\frac{\log KS}{t} &= \log 1.1979 - 0.7982 \log QD + 0.0968 \log QB \\ &\quad + 0.0782 \log PBD + 0.3037 \log F + 0.5439 \\ &\quad \frac{\log W}{t} + 0.3734 \log CB\end{aligned}$$

$$\begin{aligned}\frac{\log KS}{t} &= \log 1.1979 - 0.7982 \log (210.00) + 0.0968 \log \\ &\quad (12.154) + 0.0782 \log (6.1745) + 0.3037 \log \\ &\quad (104.25) + 0.5439 \log (104.75) + 0.3734 \log \\ &\quad (10.0954)\end{aligned}$$

$$\begin{aligned}\log KS &= 0.0784 - 1.8536 + 0.1050 + 0.0618 + 1.0970 + \\ &\quad 0.6135 + 0.3749\end{aligned}$$

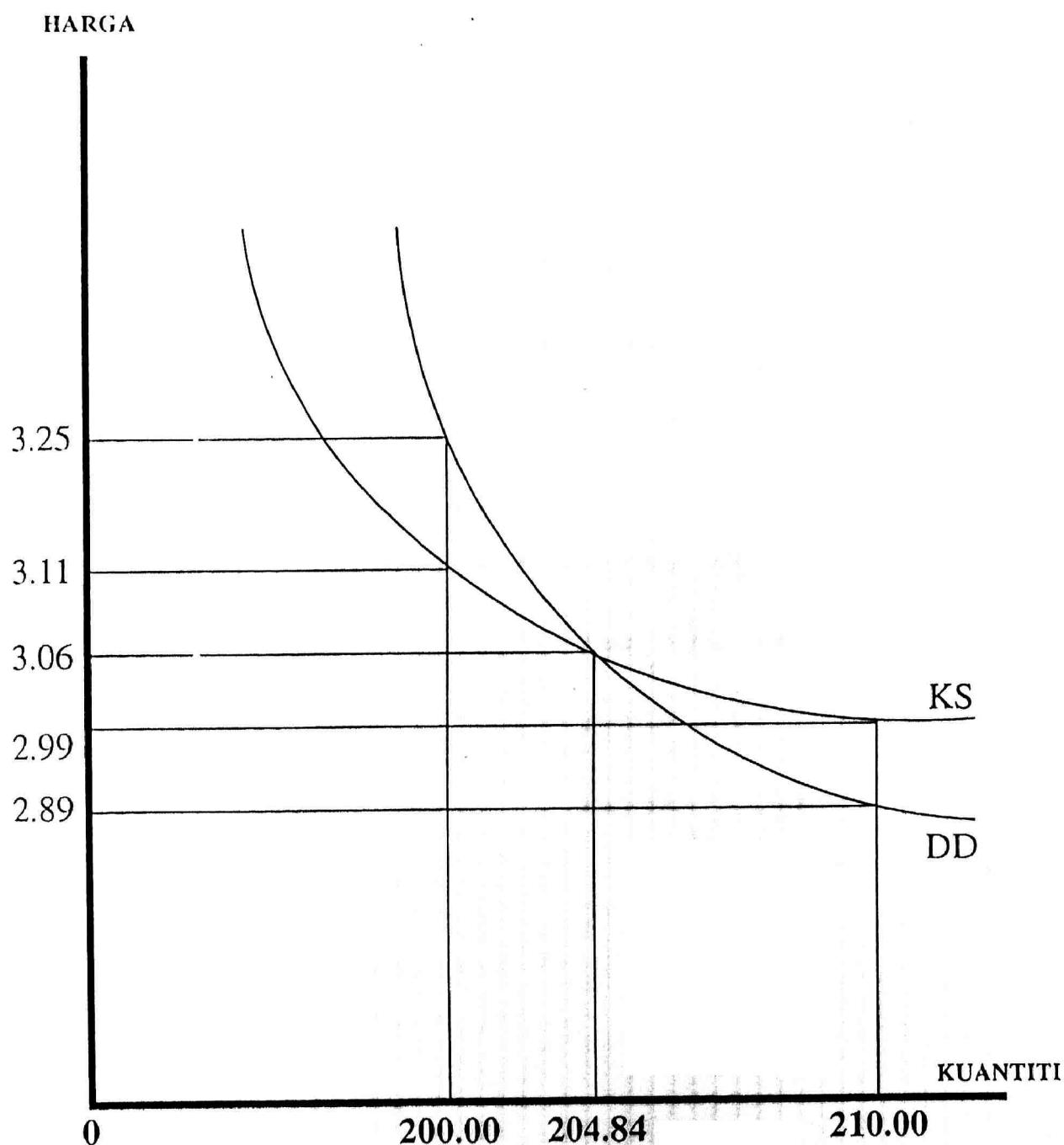
$$\frac{\log KS}{t} = 0.477$$

Antilogkan Log Kst

$$\frac{KS}{t} = 2.99$$

Rajah berikut menunjukkan keluk kos sut terletak di bawah keluk permintaan sebelum titik keseimbangan dan selepas titik keseimbangan keluk kos sut terletak di atas keluk permintaan.

Rajah 5.1 : Menunjukkan perhubungan antara keluk kos sut dan permintaan untuk tahun 1970



SUMBER : Pengiraan pada tahun 1970

LAMPIRAN 2

Pengiraan berikut menunjukkan tahap kecekapan peruntukan untuk tahun 1975. Pengiraan tersebut berdasarkan kepada fungsi permintaan dan kos sut yang dianggarkan, permintaan dan harga keseimbangan pada tahap kecekapan peruntukan adalah :-

$$\frac{\text{Log QD}}{t} = \frac{\text{Log } 2.0388}{t} - \frac{0.4171}{t} H + \frac{0.2702}{t} \text{ Log M} + \frac{0.0542}{t}$$

$$\frac{\text{Log Z}}{t} + \frac{0.5082}{t} \text{ Log QD}_{t-1} + \frac{0.5695}{t} \text{ Log HP}_t$$

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - \frac{0.7982}{t} \text{ Log QD}_t + \frac{0.0968}{t} \text{ Log QB}_t$$

$$+ \frac{0.0782}{t} \text{ Log PBD}_t + \frac{0.3037}{t} \text{ Log F}_t + \frac{0.5439}{t}$$

$$\frac{\text{Log W}}{t} + \frac{0.3734}{t} \text{ Log CB}_t$$

Dari sripada nilai penganggaran :

i) $\frac{KS}{t} = \frac{H}{t}$ dan gantikan H dengan $\frac{KS}{t}$

ii) $\frac{M}{t} = 271.00$ x) $\frac{QD}{t} = 166.009$

iii) $\frac{Z}{t} = 10.03$ xii) $\frac{HP}{t} = 3.5$

x) $\frac{H}{t} = 3.41$ xii) $\frac{PBD}{t} = 6.978$

iv) $\frac{W}{t} = 101.472$

v) $\frac{QB}{t} = 14.545$

vi) $\frac{QD}{t-1} = 210.732$

vii) $\frac{CB}{t} = 10.0874$

viii) $\frac{F}{t} = 103.44$

Data diambil dari jadual 5.3.3.

$$\log QD = \frac{\log 2.0388 - 0.4171}{t} [\log 1.1979 - 0.7982$$

$$+ \frac{0.0968 \log QB}{t} + \frac{0.0782 \log PBD}{t}$$

$$+ \frac{0.3037 \log F}{t} + \frac{0.5439 \log W}{t} + \frac{0.3734 \log CB}{t}]$$

$$+ \frac{0.2702 \log M}{t} + \frac{0.0542 \log Z}{t} + \frac{0.5082 \log QD}{t-1}$$

$$+ \frac{0.5695 \log HP}{t}$$

$$\log QD = \frac{\log 2.0388 - 0.4171}{t} [\log 1.1979 - 0.7982 \log QD]$$

$$+ 0.0968 \log (14.454) + 0.0782 \log (6.978) +$$

$$0.5439 \log (101.472) + 0.3037 \log (103.44) + 0.3734$$

$$\log (10.0874)] + 0.2702 \log (271.0) + 0.0542 \log$$

$$\log (10.03) + 0.5082 \log (210.732) + 0.5695$$

$$\log (3.5).$$

$$\log QD = \frac{0.3094 - 0.4171}{t} [0.0784 - 0.7982 \log QD] +$$

$$0.1126 + 0.0659 + 1.0913 + 0.6119 + 0.3748] +$$

$$0.6574 + 0.0543 + 1.1912 + 0.3098.$$

$$= 0.3094 - 0.4171 [- 0.7982 \log QD] + 2.3349]$$

$$+ 0.6574 + 0.0543 + 1.1912 + 0.3098$$

$$= 0.3329 \log QD + \frac{0.3094 - 0.9739 + 0.6574}{t} +$$

$$0.0543 + 1.1912 + 0.3098.$$

$$\log QD - \frac{0.3329 \log QD}{t} = 1.5482$$

$$\log QD = \frac{1.5482}{t} = \frac{2.321}{0.6671}$$

Antilogkan QDt

$$\frac{QD}{t} = 209.28$$

Oleh kerana $Ht = KSt$, maka Ht sama dengan persamaan KSt dapat digunakan sebagai harga, pada kuantiti 209.28 dan harga :-

$$\frac{\log H}{t} = \log 1.1979 - 0.7982 \frac{\log QD}{t} + 0.7982 \frac{\log QB}{t}$$

$$+ 0.0782 \frac{\log PBD}{t} + 0.5439 \frac{\log F}{t} + 0.3037$$

$$\frac{\log W}{t} + 0.3734 \frac{\log CB}{t}$$

$$\frac{\log H}{t} = \log 1.1979 - 0.7982 \log (209.28) + 0.0968 \log$$

$$(14.545) + 0.0782 \log (6.978) + 0.5439 \log$$

$$(101.472) + 0.3037 \log (103.44) + 0.3734 \log$$

$$(10.0874).$$

$$\frac{\log H}{t} = 0.0784 - 1.8524 + 0.1126 + 0.0659 + 1.0913$$

$$+ 0.6119 + 0.3748 .$$

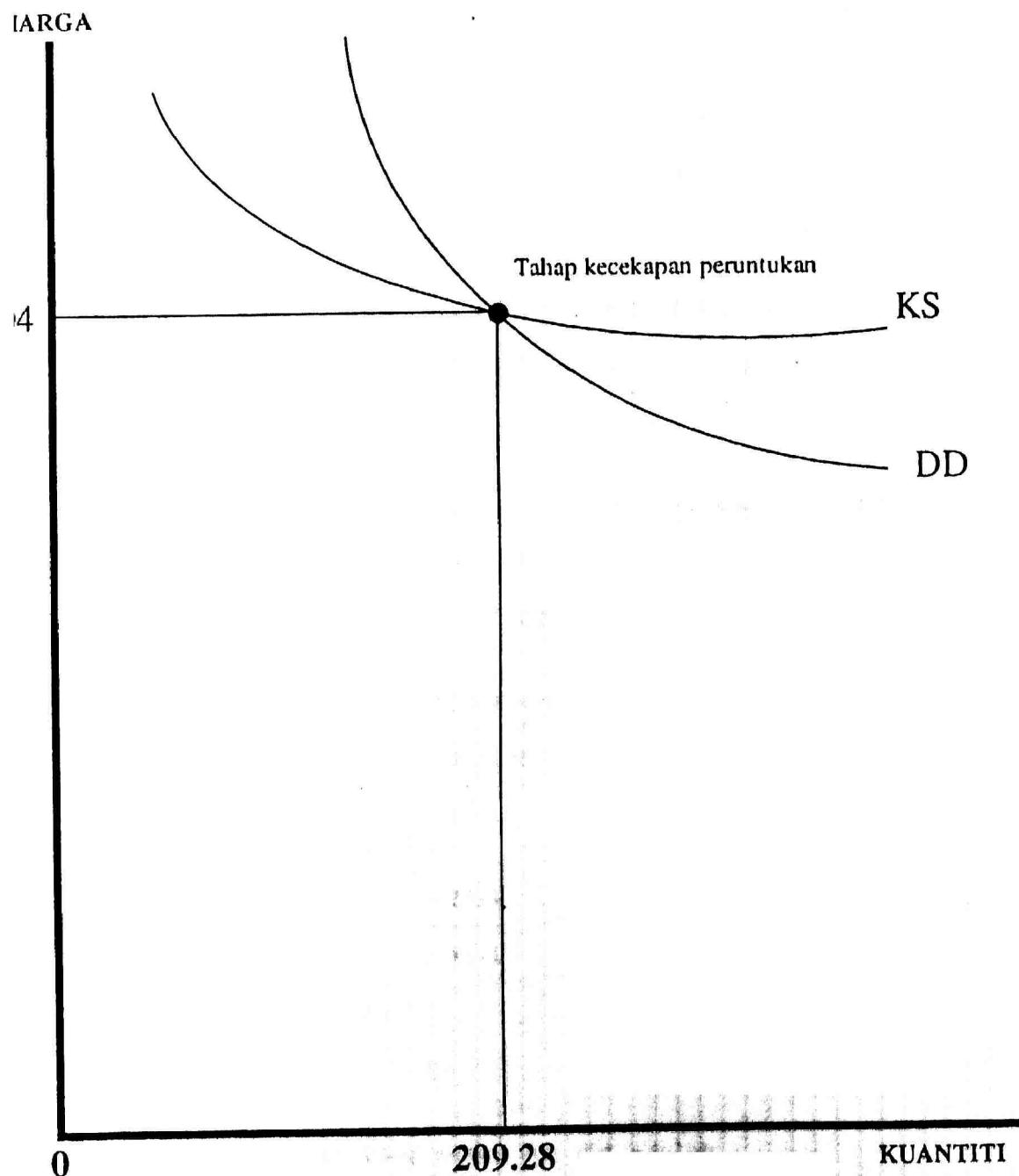
$$= 0.4825$$

Antilogkan Ht

$$\frac{H}{t} = 3.04$$

Tahap kecekapan peruntukan dapat diterangkan dengan menggunakan Rajah 5.2 dimana harga dan kuantiti keseimbangan dicapai pada 3.04 dan 209.28:-

Rajah 5.2 : Menunjukkan tahap kecekapan peruntukan untuk tahun 1975



SUMBER : Pengiraan pada tahun 1986

Lampiran ini menjelaskan perhubungan antara keluk permintaan dan keluk kos sut untuk tahun 1975. Data untuk tahun ini di ambil daripada jadual 5.3.3. 2 andaian berkenaan dengan kuantiti di minta dilakukan untuk menjelaskan perhubungan antara keluk-keluk tersebut:

A) Andaian pertama.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 200.00. Pada kuantiti ini harga purata yang dikenakan ialah :

$$\frac{\text{Log QD}}{t} = \frac{\text{Log } 2.0388}{t} - \frac{0.4171}{t} \text{Log H} + \frac{0.2702}{t} \text{Log M}$$

$$+ \frac{0.0542}{t} \text{Log Z} + \frac{0.5082}{t-1} \text{Log QD} + \frac{0.5695}{t}$$

$$\frac{\text{Log HP}}{t}$$

$$\frac{0.4171}{t} \text{Log H} = \frac{\text{Log } 2.0388}{t} + \frac{0.2702}{t} \text{Log M} + \frac{0.0542}{t} \text{Log Z}$$

$$+ \frac{0.5082}{t-1} \text{Log QD} - \frac{\text{Log QD}}{t} + \frac{0.5695}{t}$$

$$\frac{\text{Log HP}}{t}$$

$$= \text{Log } 2.0388 + 0.2702 \text{Log } (271.0) + 0.0542$$

$$\text{Log } (10.03) + 0.5082 \text{Log } (210.732) -$$

$$\text{Log } (200.00) + 0.5695 \text{Log } (3.5)$$

$$= 0.3094 + 0.6574 + 0.0543 + 1.1912 - 2.301$$

$$+ 0.3098$$

$$\frac{0.4171}{t} \text{Log H} = 0.2211$$

$$\frac{\text{Log H}}{t} = \frac{0.2211}{0.4171} = 0.5300$$

Antilogkan Log Ht

$$\frac{H}{t} = 3.39$$

Pada kuantiti yang sama, kos sut adalah :

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - \frac{0.7982}{t} \text{Log QD} + \frac{0.0968}{t} \text{Log QB}$$

$$+ 0.0782 \frac{\log PBD}{t} + 0.3037 \frac{\log F}{t} + 0.5439$$

$$\frac{\log W}{t} + 0.3734 \frac{\log CB}{t}$$

$$\begin{aligned}\log KS = & \log 1.1979 - 0.7982 \log (200.00) + 0.0968 \log \\ t & (14.545) + 0.0782 \log (6.978) + 0.3037 \log \\ & (101.472) + 0.5439 \log (103.44) + 0.3734 \\ & \log (10.0874)\end{aligned}$$

$$\begin{aligned}\log KS = & 0.0784 - 1.8367 + 0.1126 + 0.0659 + 1.0913 + \\ t & 0.6119 + 0.3748\end{aligned}$$

$$\begin{aligned}\log KS = & 0.4982 \\ t &\end{aligned}$$

Antilogkan Log Kst

$$\begin{aligned}KS = & 3.15 \\ t &\end{aligned}$$

B) Andaian Kedua.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 215.00 . Pada kuantiti ini harga purata yang dikenakan ialah :

$$\begin{aligned}\log QD = & \log 2.0388 - 0.4171 \frac{\log H}{t} + 0.2702 \frac{\log M}{t} \\ & + 0.0542 \frac{\log Z}{t} + 0.5082 \frac{\log QD}{t-1} + 0.5695\end{aligned}$$

$$\begin{aligned}\log HP \\ t\end{aligned}$$

$$\begin{aligned}0.4171 \frac{\log H}{t} = & \log 2.0388 + 0.2702 \frac{\log M}{t} + 0.0542 \frac{\log Z}{t} \\ & + 0.5082 \frac{\log QD}{t-1} - \frac{\log QD}{t} + 0.5695\end{aligned}$$

$$\begin{aligned}\log HP \\ t\end{aligned}$$

$$\log 2.0388 + 0.2702 \log (271.0) + 0.0542$$

$$\log (10.03) + 0.5082 \log (210.732)$$

$$\log (215.00) + 0.5695 \log (3.5)$$

$$= 0.3094 + 0.6574 + 0.0543 + 1.1912 - 2.3324$$

$$+ 0.3098$$

$$\frac{0.4171 \text{ Log } H}{t} = 0.1896$$

$$\frac{\text{Log } H}{t} = \frac{0.1896}{0.4171} = 0.4546$$

Antilogkan Log H_t

$$\frac{H}{t} = 2.848$$

Pada kuantiti yang sama, kos sut adalah :

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - \frac{0.7982 \text{ Log QD}}{t} + \frac{0.0968 \text{ Log QB}}{t}$$

$$+ \frac{0.0782 \text{ Log PBD}}{t} + \frac{0.3037 \text{ Log F}}{t} + \frac{0.5439}{t}$$

$$\frac{\text{Log F}}{t} + \frac{0.3734 \text{ Log CB}}{t}$$

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - \frac{0.7982 \text{ Log } (215.00)}{t} + \frac{0.0968 \text{ Log }}{t}$$

$$(14.545) + \frac{0.0782 \text{ Log } (6.978)}{t} + \frac{0.3037 \text{ Log }}{t}$$

$$(101.472) + \frac{0.5439 \text{ Log } (103.44)}{t} + \frac{0.3734 \text{ Log }}{t}$$

$$(10.0874)$$

$$\frac{\text{Log KS}}{t} = \frac{0.0784}{t} - \frac{1.8618}{t} + \frac{0.1126}{t} + \frac{0.0659}{t} + \frac{1.0913}{t} +$$

$$0.6119 + \frac{0.3749}{t}$$

$$\frac{\text{Log KS}}{t} = 0.4731$$

Antilogkan Log KSt

$$\frac{KS}{t} = 2.97$$

Rajah berikut menunjukkan keluk kos sut terletak di bawah keluk permintaan sebelum titik keseimbangan dan selepas titik keseimbangan keluk kos sut terletak di atas keluk permintaan.

$$= 0.3094 + 0.6574 + 0.0543 + 1.1912 - 2.3324$$

$$+ 0.3098$$

$$\frac{0.4171 \text{ Log } H}{t} = 0.1896$$

$$\frac{\text{Log } H}{t} = \frac{0.1896}{0.4171} = 0.4546$$

Antilogkan Log Ht

$$\frac{H}{t} = 2.848$$

Pada Kuantiti yang sama, kos sut adalah :

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - \frac{0.7982 \text{ Log QD}}{t} + \frac{0.0968 \text{ Log QB}}{t}$$

$$+ \frac{0.0782 \text{ Log PBO}}{t} + \frac{0.3037 \text{ Log F}}{t} + \frac{0.5439}{t}$$

$$\frac{\text{Log F}}{t} + \frac{0.3734 \text{ Log CB}}{t}$$

$$\begin{aligned} \frac{\text{Log KS}}{t} &= \frac{\text{Log } 1.1979}{t} - \frac{0.7982 \text{ Log } (215.00)}{t} + \frac{0.0968 \text{ Log }}{t} \\ &\quad (14.545) + \frac{0.0782 \text{ Log } (6.978)}{t} + \frac{0.3037 \text{ Log }}{t} \\ &\quad (101.472) + \frac{0.5439 \text{ Log } (103.44)}{t} + \frac{0.3734 \text{ Log }}{t} \\ &\quad (10.0874) \end{aligned}$$

$$\begin{aligned} \frac{\text{Log KS}}{t} &= 0.0784 - \frac{1.8618}{t} + \frac{0.1126}{t} + \frac{0.0659}{t} + \frac{1.0913}{t} + \\ &\quad \frac{0.6119}{t} + \frac{0.3749}{t} \end{aligned}$$

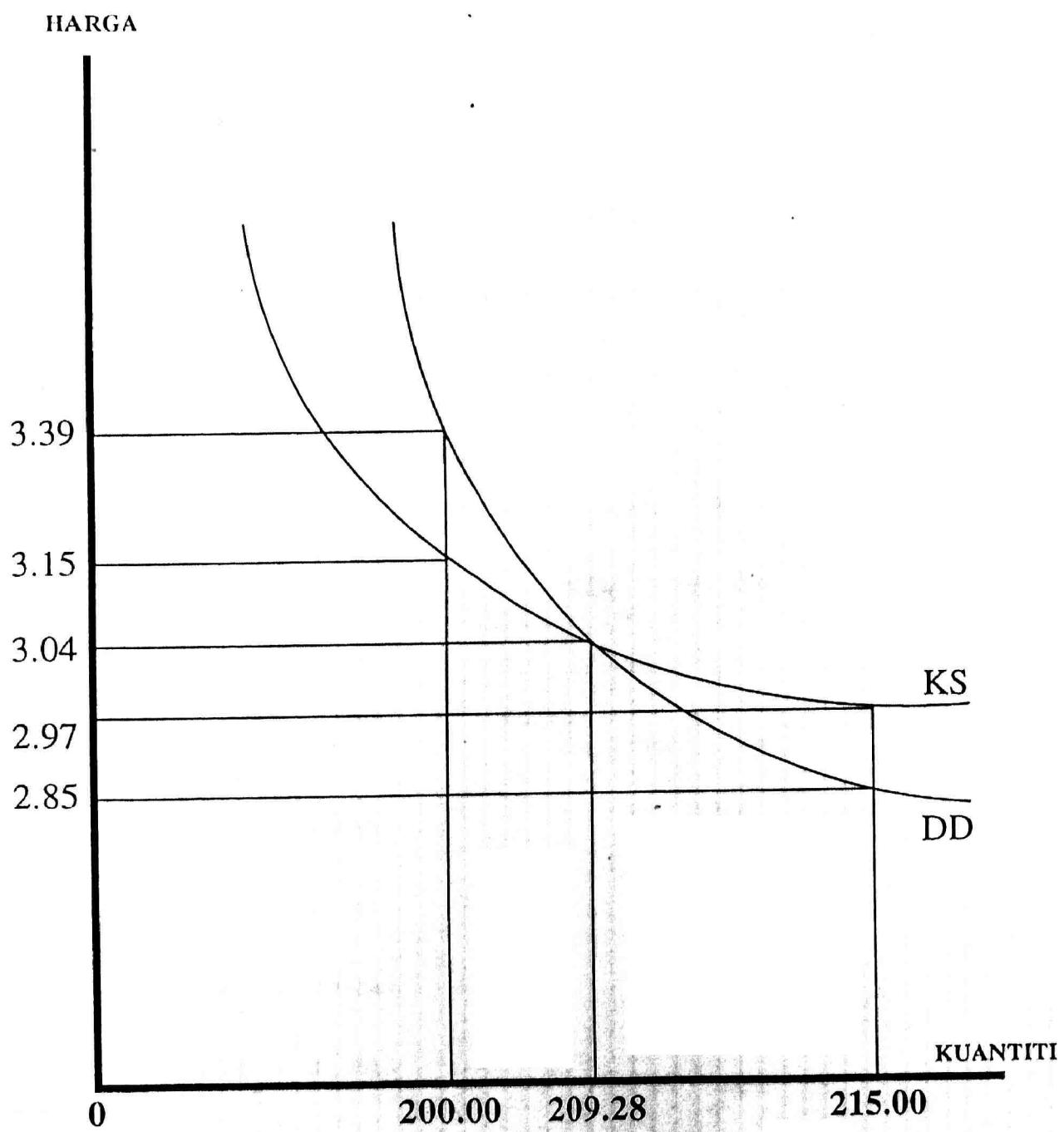
$$\frac{\text{Log KS}}{t} = 0.4731$$

Antilogkan Log Kst

$$\frac{KS}{t} = 2.97$$

Rajah berikut menunjukkan keluk kos sut terletak di bawah keluk permintaan sebelum titik keseimbangan dan selepas titik keseimbangan keluk kos sut terletak di atas keluk permintaan.

Rajah 5.2 : Menunjukkan perhubungan antara keluk kos sut dan permintaan untuk tahun 1975



SUMBER : Pengiraan pada tahun 1975

LAMPIRAN 3

Pengiraan berikut menunjukkan tahap kecekapan peruntukan untuk tahun 1980. Pengiraan tersebut berdasarkan kepada fungsi permintaan dan kos sut yang dianggarkan, permintaan dan harga keseimbangan pada tahap kecekapan peruntukan adalah :-

$$\frac{\text{Log } QD}{t} = \text{Log } 2.0388 - 0.4171 \frac{H}{t} + 0.2702 \frac{\text{Log } M}{t} + 0.0542$$

$$\frac{\text{Log } Z}{t} + 0.5082 \frac{\text{Log } QD}{t-1} + 0.5695 \frac{\text{Log } HP}{t}$$

$$\frac{\text{Log } KS}{t} = \text{Log } 1.1979 - 0.7982 \frac{\text{Log } QD}{t} + 0.0968 \frac{\text{Log } QB}{t}$$

$$+ 0.0782 \frac{\text{Log } PBO}{t} + 0.3037 \frac{\text{Log } F}{t} + 0.5439$$

$$\frac{\text{Log } W}{t} + 0.3734 \frac{\text{Log } CB}{t}$$

Daripada nilai penganggaran :

i) $\frac{KS}{t} = H$ dan gantikan H dengan $\frac{KS}{t}$

ii) $\frac{M}{t} = 402.0$ x) $\frac{QD}{t} = 221.527$

iii) $\frac{Z}{t} = 11.30$ xi) $\frac{HP}{t} = 3.6$

xi) $\frac{H}{t} = 3.29$ xii) $\frac{PBO}{t} = 7.4473$

iv) $\frac{W}{t} = 100.38$

v) $\frac{QB}{t} = 15.221$

vi) $\frac{QD}{t-1} = 219.747$

vii) $\frac{CB}{t} = 10.9513$

viii) $\frac{F}{t} = 113.73$

Data diambil dari jadual 5.3.3.

$$\log QD = \frac{\log 2.0388 - 0.4171}{t} [\log 1.1979 - 0.7982$$

$$+ \frac{0.0968 \log QB}{t} + \frac{0.0782 \log PBD}{t}$$

$$+ \frac{0.3037 \log F}{t} + \frac{0.5439 \log W}{t} + \frac{0.3734 \log CB}{t}]$$

$$+ \frac{0.2702 \log M}{t} + \frac{0.0542 \log Z}{t} + \frac{0.5082 \log QD}{t-1}$$

$$+ \frac{0.5695 \log HP}{t}$$

$$\log QD = \frac{\log 2.0388 - 0.4171}{t} [\log 1.1979 - 0.7982 \log QD]$$

$$+ 0.0968 \log (15.221) + 0.0782 \log (7.4473) +$$

$$0.5439 \log (100.38) + 0.3037 \log (113.73) + 0.3734$$

$$\log (10.9513)] + 0.2702 \log (402.0) + 0.0542 \log$$

$$(11.30) + 0.5082 \log (219.747) + 0.569 \log (3.6).$$

$$\log QD = \frac{0.3094 - 0.4171}{t} [0.0784 - 0.7982 \log QD] +$$

$$0.1145 + 0.0682 + 1.0887 + 0.6245 + 0.3881] +$$

$$0.7037 + 0.0571 + 1.1902 + 0.3168.$$

$$= 0.3094 - 0.4171 [- 0.7982 \log QD] + 2.3624$$

$$+ 0.7037 + 0.0571 + 1.1902 + 0.3168$$

$$= 0.3329 \log QD + 0.3094 - 0.9854 + 0.7037 +$$

$$0.0571 + 1.1902 + 0.3168.$$

$$\log QD - \frac{0.3329 \log QD}{t} = 1.5934$$

$$\log QD = \frac{1.5934}{0.6671} = 2.389$$

Antilogkan QDt

$$\frac{QD}{t} = 245.03$$

Oleh kerana $Ht = KSt$, maka Ht sama dengan persamaan KSt dapat digunakan sebagai harga, pada kuantiti 245.03 dan harga :-

$$\frac{\log H}{t} = \frac{\log 1.1979}{t} - \frac{0.7982}{t} \log QD + \frac{0.0968}{t} \log QB$$

$$+ \frac{0.0782}{t} \log PBD + \frac{0.5439}{t} \log F + \frac{0.3037}{t}$$

$$\frac{\log W}{t} + \frac{0.3734}{t} \log CB$$

$$\frac{\log H}{t} = \frac{\log 1.1979}{t} - \frac{0.7982}{t} \log (245.03) + \frac{0.0968}{t} \log$$

$$(15.221) + \frac{0.0782}{t} \log (7.4473) + \frac{0.5439}{t} \log$$

$$(100.38) + \frac{0.3037}{t} \log (113.73) + \frac{0.3734}{t} \log$$

$$(10.9513).$$

$$\frac{\log H}{t} = 0.0784 - 1.9071 + 0.1145 + 0.0682 + 1.0887$$

$$+ 0.6245 + 0.3881 ,$$

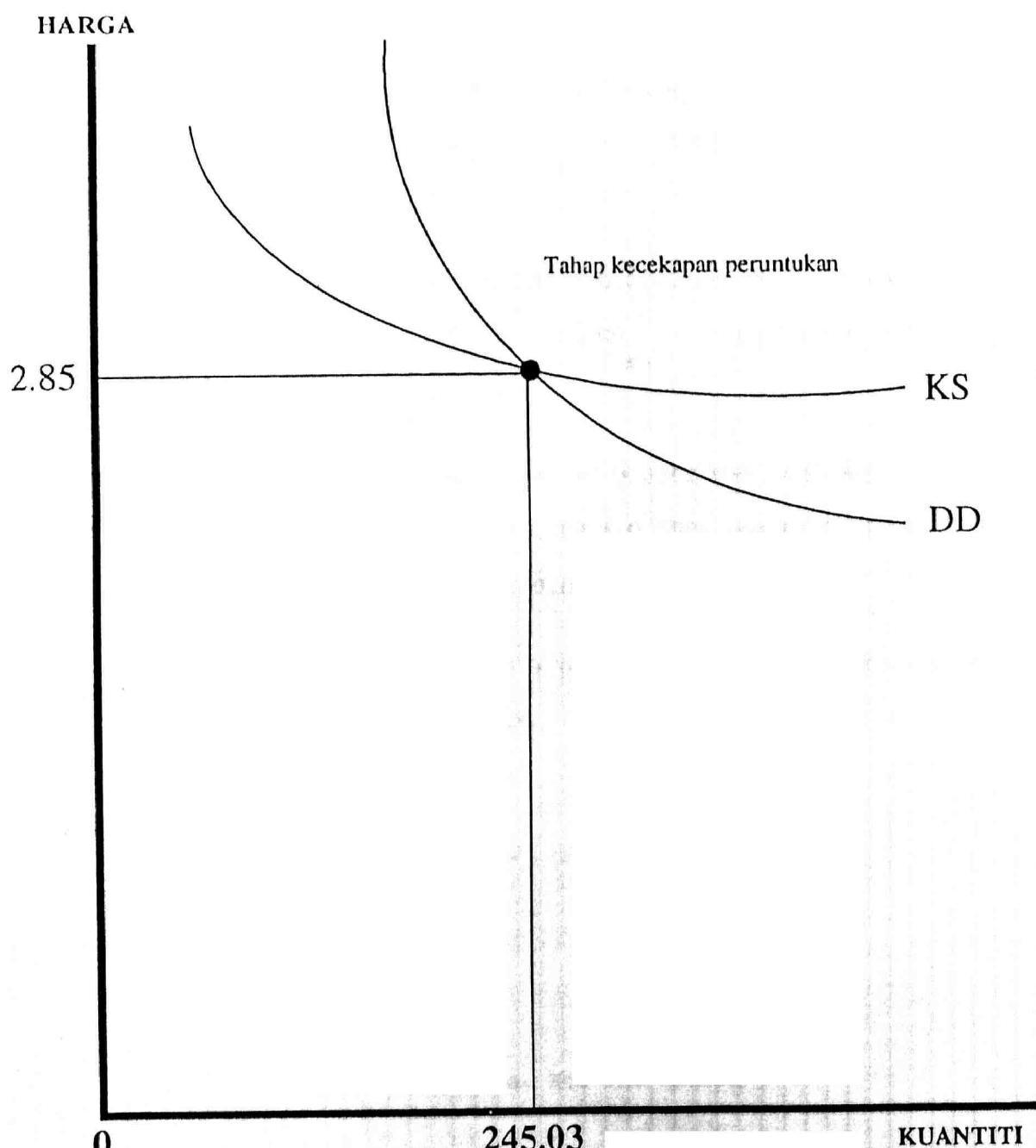
$$= 0.4553$$

Antilogkan Ht

$$\frac{H}{t} = 2.85$$

Tahap kecekapan peruntukan dapat diterangkan dengan menggunakan Rajah 5.3 dimana harga dan kuantiti keseimbangan dicapai pada 2.85 dan 245.03:-

Rajah 5.3 : Menunjukkan tahap kecekapan peruntukan untuk tahun 1980



SUMBER : Pengiraan pada tahun 1986

Lampiran ini menjelaskan perhubungan antara keluk permintaan dan keluk kos sut untuk tahun 1980. Data untuk tahun ini di ambil daripada Jadual 5.3.3. 2 andaian berkenaan dengan kuantiti di minta di lakukan untuk menjelaskan perhubungan antara keluk-keluk tersebut:

a) Andaian pertama.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 230.00. Pada kuantiti ini harga purata yang dikenakan ialah :

$$\begin{aligned} \text{Log QD}_t &= \text{Log } 2.0388 - 0.4171 \text{ Log } H_t + 0.2702 \text{ Log } M_t \\ &\quad + 0.0542 \text{ Log } Z_t + 0.5082 \text{ Log } QD_{t-1} + 0.5695 \\ \text{Log HP}_t &= \text{Log } 2.0388 + 0.2702 \text{ Log } M_t + 0.0542 \text{ Log } Z_t \\ &\quad + 0.5082 \text{ Log } QD_{t-1} - \text{Log } QD_t + 0.5695 \\ \text{Log HP}_t &= \text{Log } 2.0388 + 0.2702 \text{ Log } (402.00) + 0.0542 \\ &\quad \text{Log } (11.30) + 0.5082 \text{ Log } (219.747) - \\ &\quad \text{Log } (230.00) + 0.5695 \text{ Log } (3.6) \\ &= 0.3094 + 0.7037 + 0.0571 + 1.1902 - 2.3617 \\ &\quad + 0.3168 \\ 0.4171 \text{ Log } H_t &= 0.2154 \\ \text{Log } H_t &= \frac{0.2154}{0.4171} = 0.5166 \end{aligned}$$

Antilogkan Log Ht

$$H_t = 3.29$$

Pada kuantiti yang sama, kos sut adalah

$$\text{Log KS}_t = \text{Log } 1.1979 - 0.7982 \text{ Log } QD_t + 0.0968 \text{ Log } QB_t$$

$$+ 0.0782 \frac{\text{Log PBD}}{t} + 0.3037 \frac{\text{Log F}}{t} + 0.5439 \frac{\text{Log W}}{t} + 0.3734 \frac{\text{Log CB}}{t}$$

$$\begin{aligned}\text{Log KS} &= \text{Log } 1.1979 - 0.7982 \text{ Log } (230.00) + 0.0968 \text{ Log } \\ &\quad t \\ &\quad (15.221) + 0.0782 \text{ Log } (7.4473) + 0.3037 \text{ Log } \\ &\quad (100.38) + 0.5439 \text{ Log } (113.73) + 0.3734 \\ &\quad \text{Log } (10.9413)\end{aligned}$$

$$\begin{aligned}\text{Log KS} &= 0.0784 - 1.8851 + 0.1145 + 0.0682 + 1.0887 + \\ &\quad t \\ &\quad 0.6245 + 0.3881\end{aligned}$$

$$\begin{aligned}\text{Log KS} &= 0.447 \\ &\quad t\end{aligned}$$

Antilogkan Log KSt

$$\begin{aligned}\text{KS} &= 3.00 \\ &\quad t\end{aligned}$$

B) Andaian Kedua.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 250.00. Pada kuantiti ini harga purata yang dikenakan ialah :

$$\begin{aligned}\text{Log QD} &= \text{Log } 2.0388 - 0.4171 \frac{\text{Log H}}{t} + 0.2702 \frac{\text{Log M}}{t} \\ &\quad + 0.0542 \frac{\text{Log Z}}{t} + 0.5082 \frac{\text{Log QD}}{t-1} + 0.5695\end{aligned}$$

$$\begin{aligned}\text{Log HP} \\ &\quad t\end{aligned}$$

$$\begin{aligned}0.4171 \frac{\text{Log H}}{t} &= \text{Log } 2.0388 + 0.2702 \frac{\text{Log M}}{t} + 0.0542 \frac{\text{Log Z}}{t} \\ &\quad + 0.5082 \frac{\text{Log QD}}{t-1} - \frac{\text{Log QD}}{t} + 0.5695\end{aligned}$$

$$\begin{aligned}\text{Log HP} \\ &\quad t\end{aligned}$$

$$= \text{Log } 2.0388 + 0.2702 \text{ Log } (402.00) + 0.0542$$

$$\text{Log } (11.30) + 0.5082 \text{ Log } (219.747) -$$

$$\text{Log } (250.00) + 0.5695 \text{ Log } (3.6)$$

$$= 0.3094 + 0.7037 + 0.0571 + 1.1902 - 2.3979 \\ + 0.3168$$

$$\frac{0.4171 \text{ Log } H}{t} = 0.1793$$

$$\frac{\text{Log } H}{t} = 0.1793 \\ \frac{t}{0.4171} = 0.4298$$

Antilogkan Log Ht

$$\frac{H}{t} = 2.69$$

Pada kuantiti yang sama, kos sut adalah :

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - \frac{0.7982 \text{ Log QD}}{t} + \frac{0.0968 \text{ Log QB}}{t}$$

$$+ \frac{0.0782 \text{ Log PBD}}{t} + \frac{0.3037 \text{ Log F}}{t} + \frac{0.5439}{t}$$

$$\frac{\text{Log F}}{t} + \frac{0.3734 \text{ Log CB}}{t}$$

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - \frac{0.7982 \text{ Log } (250.00)}{t} + \frac{0.0968 \text{ Log }}{t}$$

$$(15.221) + \frac{0.0782 \text{ Log } (7.4473)}{t} + \frac{0.3037 \text{ Log }}{t}$$

$$(100.38) + \frac{0.5439 \text{ Log } (113.73)}{t} + \frac{0.3734}{t}$$

$$\text{Log } (10.9513)$$

$$\frac{\text{Log KS}}{t} = \frac{0.0784}{t} - \frac{1.9140}{t} + \frac{0.1145}{t} + \frac{0.0682}{t} + \frac{1.0887}{t} + \frac{0.6245}{t} + \frac{0.3881}{t}$$

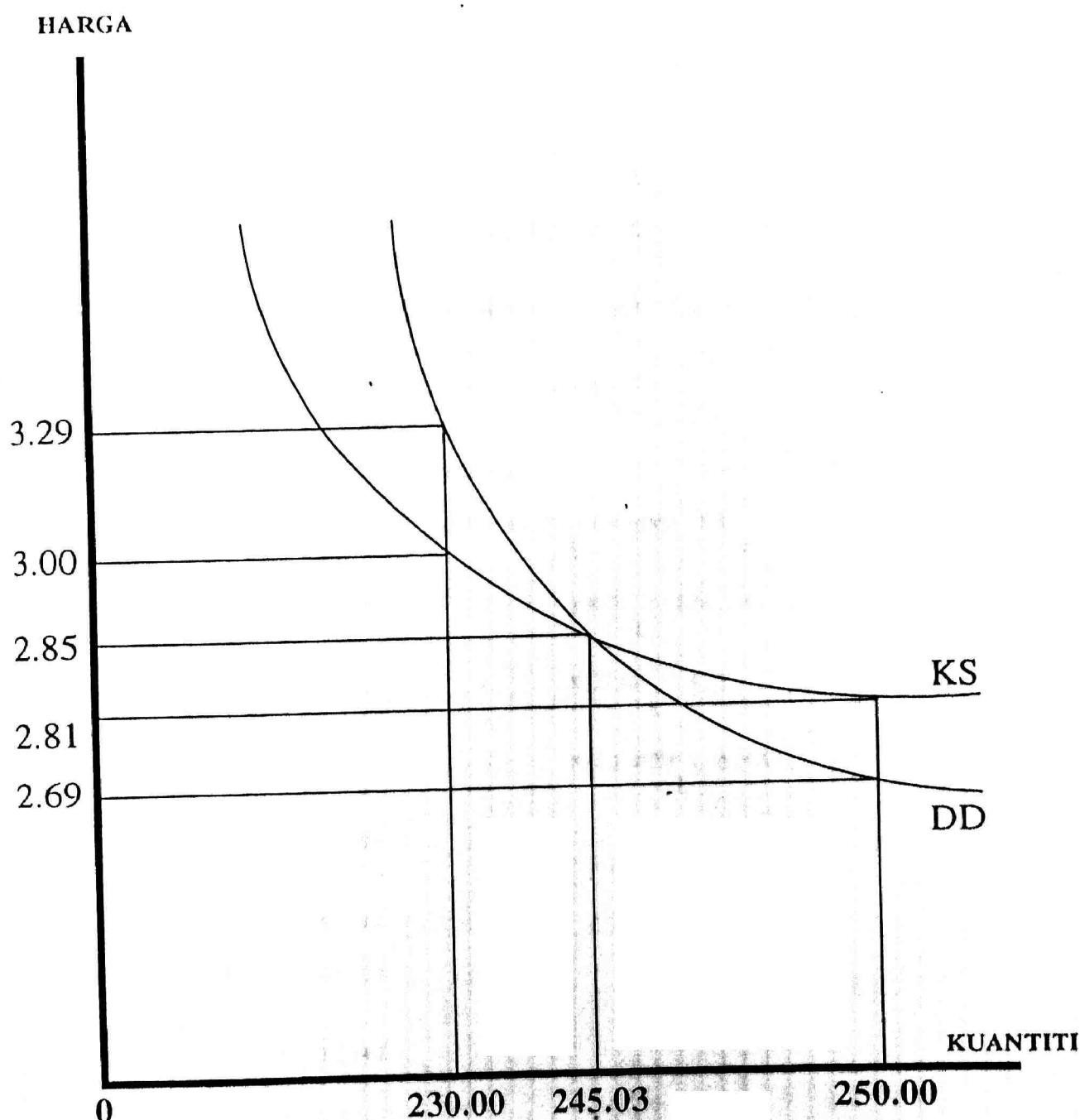
$$\frac{\text{Log KS}}{t} = 0.4484$$

Antilogkan Log Kst

$$\frac{KS}{t} = 2.81$$

Rajah berikut menunjukkan keluk kos sut terletak di bawah keluk permintaan sebelum titik keseimbangan dan selepas titik keseimbangan keluk kos sut terletak di atas keluk permintaan.

Rajah 5.3 : Menunjukkan perhubungan antara keluk kos sut dan permintaan untuk tahun 1980



SUMBER : Pengiraan pada tahun 1980

LAMPIRAN 4

Pengiraan berikut menunjukkan tahap kecekapan peruntukan untuk tahun 1985. Pengiraan tersebut berdasarkan kepada fungsi permintaan dan kos sut yang dianggarkan, permintaan dan harga keseimbangan pada tahap kecekapan peruntukan adalah :-

$$\log Q_0 = \log 2.0388 - 0.4171 H + 0.2702 \log M + 0.0542$$

$$\text{Log } Z_t + 0.5082 \text{ Log } QD_{t-1} + 0.5695 \text{ Log } HP_t$$

$$\text{Log KS} = \text{Log } 1.1979 - 0.7982 \text{ Log QD} + 0.0968 \text{ Log QB}$$

$$+ 0.0782 \text{ Log PBD} + 0.3037 \text{ Log F} + 0.5439$$

$$\frac{\text{Log } W}{t} + 0.3734 \text{ Log CB}$$

Daripada nilai penganggaran :

i) $KS = H$ dan gantikan H dengan KS

$$\text{ii) } M_t = 558.8 \quad X_t QD_t = 224.641$$

$$\text{iii) } z_t = 12.625 \quad \text{xi) } HP_t = 4.5$$

Xii) PBO = 8.437

$$\text{iv) } W_t = 106.94$$

$$v) \text{ QB } = 16.171$$

$t-1$

VII) CB - 11.747
t

$$VIII) F = 150.27$$

Data diambil dari jadual 5.3.3.

$$\log QD = \frac{\log 2.0388 - 0.4171}{t} [\log 1.1979 - \frac{0.7982}{t}]$$

$$\begin{aligned} & + \frac{0.0968 \log QD}{t} + \frac{0.0782 \log PBD}{t} \\ & + \frac{0.3037 \log F}{t} + \frac{0.5439 \log W}{t} + \frac{0.3734 \log CB}{t} \\ & + \frac{0.2702 \log M}{t} + \frac{0.0542 \log Z}{t} + \frac{0.5082 \log QD}{t-1} \\ & + \frac{0.5695 \log HP}{t} \end{aligned}$$

$$\begin{aligned} \log QD &= \frac{\log 2.0388 - 0.4171}{t} [\log 1.1979 - \frac{0.7982 \log QD}{t} \\ & + 0.0968 \log (16.171) + 0.0782 \log (8.437) + \\ & 0.5439 \log (106.94) + 0.3037 \log (130.29) + 0.3734 \\ & \log (11.947)] + 0.2702 \log (558.8) + 0.0542 \\ & \log (12.625) + 0.5082 \log (207.97) + 0.5695 \\ & \log (4.5). \end{aligned}$$

$$\begin{aligned} \log QD &= \frac{0.3094 - 0.4171}{t} [0.0784 - \frac{0.7982 \log QD}{t} + \\ & 0.1120 + 0.0724 + 1.1036 + 0.6423 + 0.4022] + \\ & 0.7423 + 0.0597 + 1.1780 + 0.3720 \\ & = 0.3094 - 0.4171 [- \frac{0.7982 \log QD}{t} + 2.4159] \\ & + 0.7423 + 0.0597 + 1.1780 + 0.3720 \\ & = 0.3329 \log QD + \frac{0.3094}{t} - 1.0077 + 0.7423 + \\ & 0.0597 + 1.1780 + 0.3720. \end{aligned}$$

$$\log QD - \frac{0.3329 \log QD}{t} = 1.6537$$

$$\log QD = \frac{1.6537}{\frac{0.3329}{t} + 2.474}$$

Antilogkan QDt

$$QD = 301.27$$

Oleh kerana $Ht = KSt$, maka Ht sama dengan persamaan KSt dapat digunakan sebagai harga, pada kuantiti 301.27 dan harga :-

$$\frac{\log H}{t} = \log 1.1979 - 0.7982 \frac{\log QD}{t} + 0.0968 \frac{\log QB}{t}$$

$$+ 0.0782 \frac{\log PBD}{t} + 0.5439 \frac{\log F}{t} + 0.3037$$

$$\frac{\log W}{t} + 0.3734 \frac{\log CB}{t}$$

$$\frac{\log H}{t} = \log 1.1979 - 0.7982 \log (301.27) + 0.0968 \log$$

$$(16.171) + 0.0782 \log (8.437) + 0.5439 \log$$

$$(106.94) + 0.3037 \log (130.29) + 0.3734$$

$$\log (11.947).$$

$$\frac{\log H}{t} = 0.0784 - 1.9787 + 0.1170 + 0.0724 + 1.1036$$

$$+ 0.6423 + 0.4022 .$$

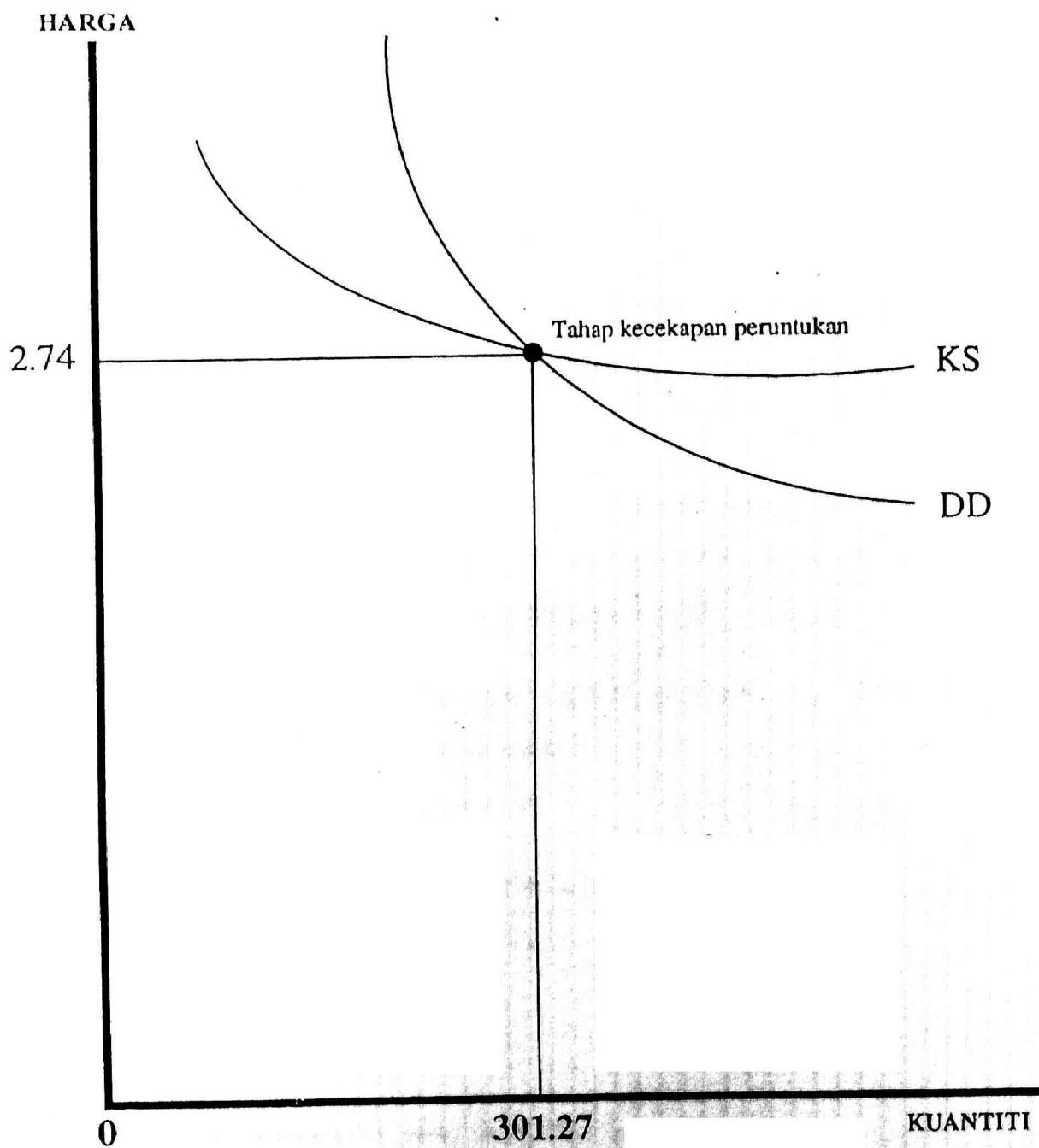
$$= 0.4372$$

Antilogkan Ht

$$Ht = 2.74$$

Tahap kecekapan peruntukan dapat diterangkan dengan menggunakan Rajah 5.4 dimana harga dan kuantiti keseimbangan dicapai pada 2.74 dan 301.27:-

Rajah 5.4 : Menunjukkan tahap kecekapan peruntukan untuk tahun 1985



SUMBER : Pengiraan pada tahun 1985

Lampiran ini menjelaskan perhubungan antara keluk permintaan dan keluk kos sut untuk tahun 1985. Data untuk tahun ini di ambil daripada Jadual 5.3.3. 2 andaian berkenaan dengan kuantiti di minta dilakukan untuk menjelaskan perhubungan antara keluk-keluk tersebut:

A) Andaian pertama.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 290.00. Pada kuantiti ini harga purata yang dikenakan ialah :

$$\begin{aligned} \frac{\text{Log QD}}{t} &= \text{Log } 2.0388 - 0.4171 \frac{\text{Log H}}{t} + 0.2702 \frac{\text{Log M}}{t} \\ &\quad + 0.0542 \frac{\text{Log Z}}{t} + 0.5082 \frac{\text{Log QD}}{t-1} + 0.5695 \end{aligned}$$

$$\frac{\text{Log HP}}{t}$$

$$\begin{aligned} 0.4171 \frac{\text{Log H}}{t} &= \text{Log } 2.0388 + 0.2702 \frac{\text{Log M}}{t} + 0.0542 \frac{\text{Log Z}}{t} \\ &\quad + 0.5082 \frac{\text{Log QD}}{t-1} - \frac{\text{Log QD}}{t} + 0.5695 \end{aligned}$$

$$\frac{\text{Log HP}}{t}$$

$$= \text{Log } 2.0388 + 0.2702 \text{ Log } (558.8) + 0.0542$$

$$\text{Log } (12.625) + 0.5082 \text{ Log } (207.97) -$$

$$\text{Log } (290.00) + 0.5695 \text{ Log } (4.5)$$

$$= 0.3094 + 0.7423 + 0.0597 + 1.1780 - 2.4623$$

$$+ 0.3720$$

$$0.4171 \frac{\text{Log H}}{t} = 0.1990$$

$$\frac{\text{Log H}}{t} = \frac{0.1990}{0.4171} = 0.4771$$

Antilogkan Log Ht

$$\frac{H}{t} = 2.999$$

Pada kuantiti yang sama, kos sut adalah :

$$\frac{\text{Log KS}}{t} = \text{Log } 1.1979 - 0.7982 \frac{\text{Log QD}}{t} + 0.0968 \frac{\text{Log QB}}{t}$$

$$+ 0.0782 \frac{\text{Log PBD}}{t} + 0.3037 \frac{\text{Log F}}{t} + 0.5439$$

$$\frac{\text{Log W}}{t} + 0.3734 \frac{\text{Log CB}}{t}$$

$$\text{Log KS} = \text{Log } 1.1979 - 0.7982 \text{ Log } (290.00) + 0.0968 \text{ Log } t$$

$$(16.171) + 0.0782 \text{ Log } (8.437) + 0.3037 \text{ Log } (106.94)$$

$$+ 0.5439 \text{ Log } (130.29) + 0.3734 \text{ Log } (11.947)$$

$$\text{Log KS} = 0.0784 - 1.9655 + 0.1170 + 0.0724 + 1.1036 +$$

$$t$$

$$0.6423 + 0.4022$$

$$\text{Log KS} = 0.4504$$

$$t$$

Antilogkan Log KST

$$\text{KS} = 2.82$$

$$t$$

B) Andaian Kedua.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 310.00. Pada kuantiti ini harga purata yang dikenakan ialah :

$$\text{Log QD} = \text{Log } 2.0388 - 0.4171 \frac{\text{Log H}}{t} + 0.2702 \frac{\text{Log M}}{t}$$

$$+ 0.0542 \frac{\text{Log Z}}{t} + 0.5082 \frac{\text{Log QD}}{t-1} + 0.5695$$

$$\text{Log HP}$$

$$t$$

$$0.4171 \frac{\text{Log H}}{t} = \text{Log } 2.0388 + 0.2702 \frac{\text{Log M}}{t} + 0.0542 \frac{\text{Log Z}}{t}$$

$$+ 0.5082 \frac{\text{Log QD}}{t-1} - \frac{\text{Log QD}}{t} + 0.5695$$

$$\text{Log HP}$$

$$t$$

$$= \text{Log } 2.0388 + 0.2702 \text{ Log } (558.8) + 0.0542$$

$$\text{Log } (12.625) + 0.5082 \text{ Log } (207.97) -$$

$$\text{Log } (310.00) + 0.5695 \text{ Log } (4.5)$$

$$= 0.3094 + 0.7423 + 0.0597 + 1.1780 - 2.4914 \\ + 0.3720$$

$$0.4171 \frac{\log H}{t} = 0.1700$$

$$\frac{\log H}{t} = 0.1700 \\ \frac{-----}{0.4171} = 0.4077$$

Antilogkan Log Ht

$$H = 2.56$$

Pada kuantiti yang sama, kos sut adalah :

$$\frac{\log KS}{t} = \frac{\log 1.1979}{t} - \frac{0.7982 \log QD}{t} + \frac{0.0968 \log QB}{t}$$

$$+ \frac{0.0782 \log PBD}{t} + \frac{0.3037 \log F}{t} + \frac{0.5439}{t}$$

$$\frac{\log W}{t} + \frac{0.3734 \log CB}{t}$$

$$\frac{\log KS}{t} = \frac{\log 1.1979}{t} - \frac{0.7982 \log (310.00)}{t} + \frac{0.0968 \log}{t}$$

$$(16.171) + \frac{0.0782 \log (8.437)}{t} + \frac{0.3037 \log}{t}$$

$$(106.94) + \frac{0.5439 \log (130.29)}{t} + \frac{0.3734}{t}$$

$$\log (11.947)$$

$$\frac{\log KS}{t} = \frac{0.0784}{t} - \frac{1.9886}{t} + \frac{0.1170}{t} + \frac{0.0724}{t} + \frac{1.1036}{t} + \\ \frac{0.6423}{t} + \frac{0.4022}{t}$$

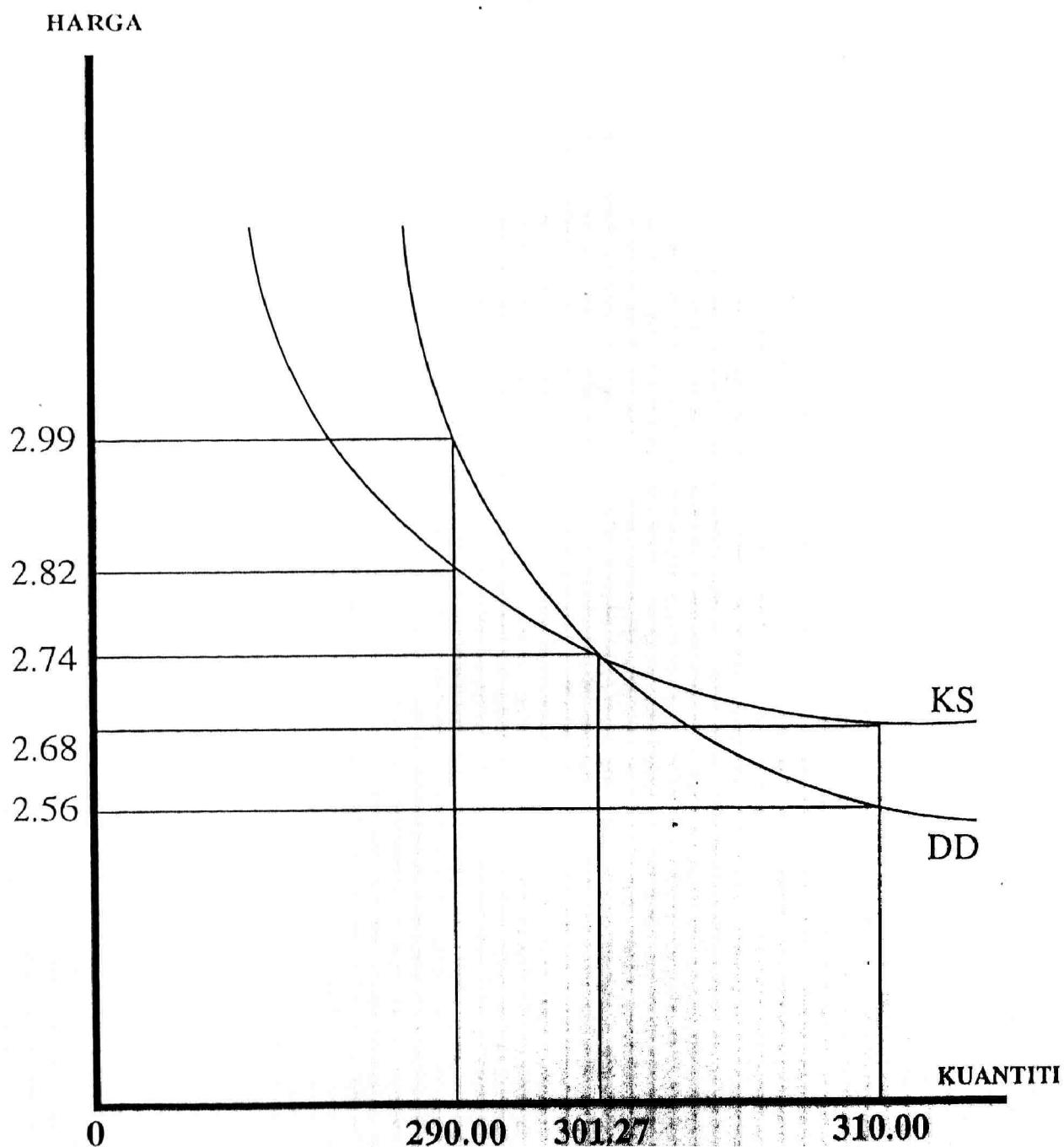
$$\frac{\log KS}{t} = 0.4273$$

Antilogkan Log KSt

$$KS = 2.675$$

Rajah berikut menunjukkan keluk kos sut terletak di bawah keluk permintaan sebelum titik keseimbangan dan selepas titik keseimbangan keluk kos sut terletak di atas keluk permintaan.

Rajah 5.4 : Menunjukkan perhubungan antara keluk kos sut dan permintaan untuk tahun 1985



SUMBER : Pengiraan pada tahun 1985

Pengiraan berikut menunjukkan tahap kecekapan peruntukan untuk tahun 1990. Pengiraan tersebut berdasarkan kepada fungsi permintaan dan kos sut yang dianggarkan, permintaan dan harga keseimbangan pada tahap kecekapan peruntukan adalah :-

$$\frac{\text{Log QD}}{t} = \text{Log } 2.0388 - 0.4171 \frac{H}{t} + 0.2702 \frac{\text{Log M}}{t} + 0.0542$$

$$\frac{\text{Log Z}}{t} + 0.5082 \frac{\text{Log QD}}{t-1} + 0.5695 \frac{\text{Log HP}}{t}$$

$$\frac{\text{Log KS}}{t} = \text{Log } 1.1979 - 0.7982 \frac{\text{Log QD}}{t} + 0.0968 \frac{\text{Log QB}}{t}$$

$$+ 0.0782 \frac{\text{Log PBD}}{t} + 0.3037 \frac{\text{Log F}}{t} + 0.5439$$

$$\frac{\text{Log W}}{t} + 0.3734 \frac{\text{Log CB}}{t}$$

Daripada nilai penganggaran :

$$\text{i) } \frac{KS}{t} = \frac{H}{t} \text{ dan gantikan } H \text{ dengan } \frac{KS}{t}$$

$$\text{ii) } \frac{M}{t} = 668.7 \quad \text{x) } \frac{QD}{t} = 279.434$$

$$\text{iii) } \frac{Z}{t} = 14.297 \quad \text{xii) } \frac{HP}{t} = 4.1$$

$$\text{xii) } \frac{H}{t} = 2.97 \quad \text{xii) } \frac{PBD}{t} = 10.304$$

$$\text{iv) } \frac{W}{t} = 109.790$$

$$\text{v) } \frac{QB}{t} = 16.889$$

$$\text{vi) } \frac{QD}{t-1} = 229.43$$

$$\text{vii) } \frac{CB}{t} = 11.474$$

$$\text{viii) } \frac{F}{t} = 151.45$$

Data diambil dari jadual 5.3.3.

$$\frac{\log QD}{t} = \log 2.0388 - 0.4171 [\log 1.1979 - 0.7982]$$

$$\frac{\log QD}{t} + \frac{0.0968 \log QB}{t} + \frac{0.0782 \log PBD}{t}$$

$$+ \frac{0.3037 \log F}{t} + \frac{0.5439 \log W}{t} + \frac{0.3734 \log CB}{t}$$

$$+ \frac{0.2702 \log M}{t} + \frac{0.0542 \log Z}{t} + \frac{0.5082 \log QD}{t-1}$$

$$+ \frac{0.5695 \log HP}{t}$$

$$\frac{\log QD}{t} = \log 2.0388 - 0.4171 [\log 1.1979 - 0.7982 \log QD]$$

$$+ 0.0968 \log (16.889) + 0.0782 \log (10.304) +$$

$$0.5439 \log (109.79) + 0.3037 \log (151.45) + 0.3734$$

$$\log (11.474)] + 0.2702 \log (668.7) + 0.0542$$

$$\log (14.297) + 0.5082 \log (229.43) + 0.5695$$

$$\log (4.1).$$

$$\frac{\log QD}{t} = 0.3094 - 0.4171 [0.0784 - 0.7982 \log QD] +$$

$$0.1188 + 0.0792 + 1.1098 + 0.6621 + 0.3957] +$$

$$0.7651 + 0.0626 + 1.2268 + 0.3489.$$

$$= 0.3094 - 0.4171 [- 0.7982 \log QD + 2.4440]$$

$$+ 0.7651 + 0.0626 + 1.2268 + 0.3489$$

$$= 0.3329 \log QD + 0.3094 - 1.1094 + 0.7651 +$$

$$0.0626 + 1.2268 + 0.3489.$$

$$\frac{\log QD - 0.3329 \log QD}{t} = 1.6934$$

$$\frac{\log QD}{t} = \frac{1.6934}{2.538} = \frac{0.6671}{0.6671}$$

Antilogkan QDt

$$\frac{QD}{t} = 345.51$$

Oleh kerana $Ht = KSt$, maka Ht sama dengan persamaan KSt dapat digunakan sebagai harga, pada kuantiti 345.51 dan harga :-

$$\frac{\log H}{t} = \frac{\log 1.1979}{t} - 0.7982 \frac{\log QD}{t} + 0.0968 \frac{\log QB}{t}$$

$$+ 0.0782 \frac{\log PBD}{t} + 0.5439 \frac{\log F}{t} + 0.3037$$

$$\frac{\log W}{t} + 0.3734 \frac{\log CB}{t}$$

$$\frac{\log H}{t} = \frac{\log 1.1979}{t} - 0.7982 \log (345.51) + 0.0968 \log$$

$$(16.889) + 0.0782 \log (10.304) + 0.5439 \log$$

$$(109.79) + 0.3037 \log (151.45) + 0.3734$$

$$\log (11.474).$$

$$\frac{\log H}{t} = 0.0784 - 2.0262 + 0.1188 + 0.0792 + 1.1098$$

$$+ 0.6621 + 0.3957 .$$

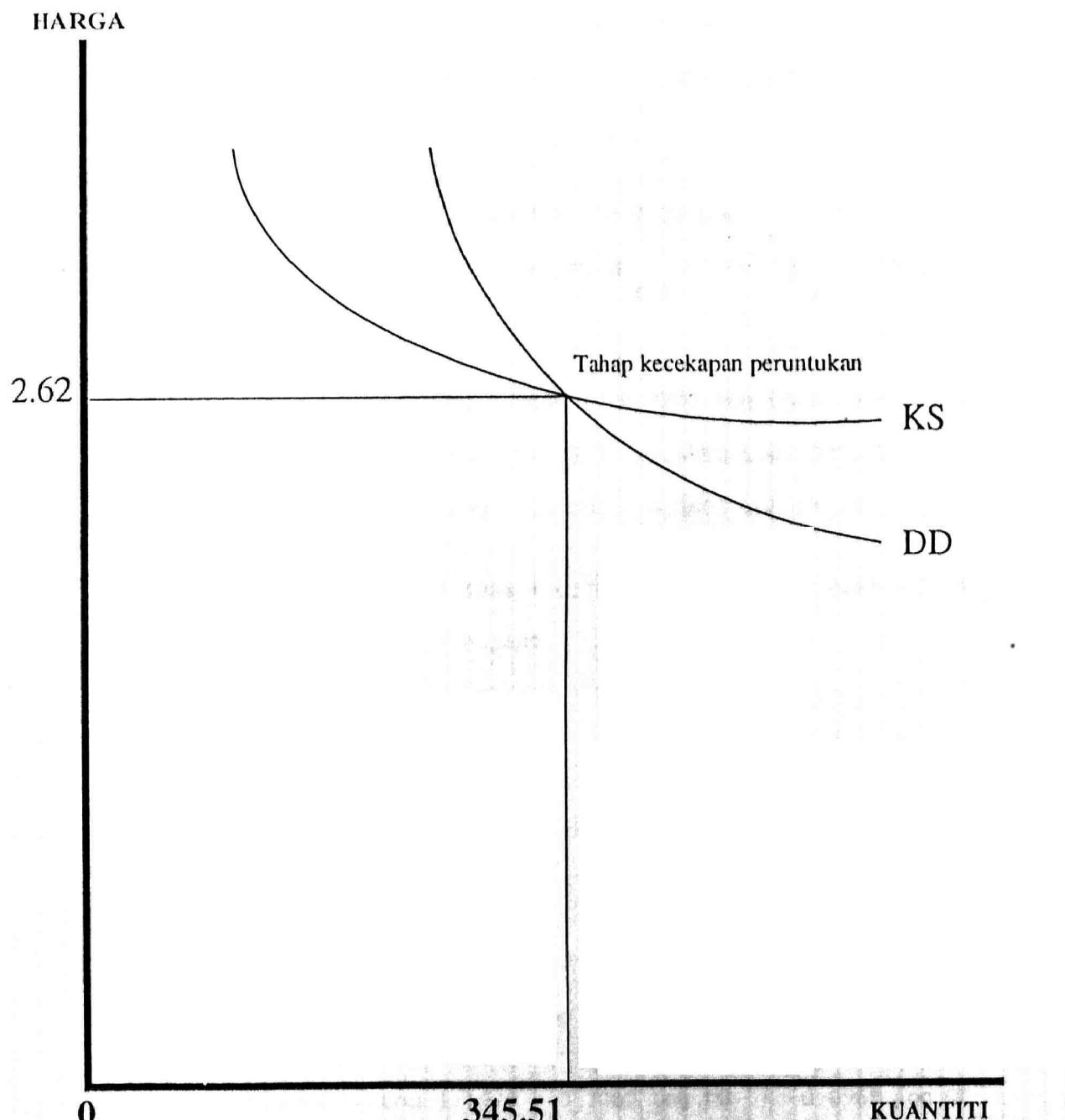
$$= 0.4178$$

Antilogkan Ht

$$\frac{H}{t} = 2.62$$

Tahap kecekapan peruntukan dapat diterangkan dengan menggunakan Rajah 5.5 dimana harga dan kuantiti keseimbangan dicapai pada 2.62 dan 345.51:-

Rajah 5.5 : Menunjukkan tahap kecekapan peruntukan untuk tahun 1990



SUMBER : Pengiraan pada tahun 1990

Lampiran ini menjelaskan perhubungan antara keluk permintaan ambil daripada jadual 5.3.3.2 andaian berkenaan dengan kuantiti di minta dilakukan untuk menjelaskan perhubungan antara keluk-keluk tersebut:

a) Andaian pertama.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 320.00 . Pada kuantiti ini harga purata yang dikenakan ialah :

$$\frac{\text{Log } QD}{t} = \frac{\text{Log } 2.0388 - 0.4171 \text{ Log } H}{t} + \frac{0.2702 \text{ Log } M}{t} + \frac{0.0542 \text{ Log } Z}{t} + \frac{0.5082 \text{ Log } QD}{t-1} + 0.5695$$

$$\frac{\text{Log } HP}{t}$$

$$\frac{0.4171 \text{ Log } H}{t} = \frac{\text{Log } 2.0388 + 0.2702 \text{ Log } M}{t} + \frac{0.0542 \text{ Log } Z}{t} + \frac{0.5082 \text{ Log } QD}{t-1} - \frac{\text{Log } QD}{t} + 0.5695$$

$$\frac{\text{Log } HP}{t}$$

$$= \text{Log } 2.0388 + 0.2702 \text{ Log } (668.7) + 0.0542$$

$$= \text{Log } (14.297) + 0.5082 \text{ Log } (229.43) -$$

$$= \text{Log } (320.00) + 0.5695 \text{ Log } (4.1)$$

$$= 0.3094 + 0.7651 + 0.0626 + 1.2268 - 2.505$$

$$+ 0.3489$$

$$\frac{0.4171 \text{ Log } H}{t} = 0.2077$$

$$\frac{\text{Log } H}{t} = \frac{0.2077}{0.4171} = 0.4978$$

Antilogkan Log Ht

$$\frac{H}{t} = 3.15$$

Pada kuantiti yang sama, kos sut adalah :

$$\frac{\text{Log } KS}{t} = \frac{\text{Log } 1.1979 - 0.7982 \text{ Log } QD}{t} + \frac{0.0968 \text{ Log } QB}{t}$$

$$+ \frac{0.0782 \text{ Log PBD}}{t} + \frac{0.3037 \text{ Log F}}{t} + 0.5439$$

$$\frac{\text{Log W}}{t} + \frac{0.3734 \text{ Log CB}}{t}$$

$$\begin{aligned}\frac{\text{Log KS}}{t} &= \text{Log } 1.1979 - \frac{0.7982 \text{ Log (320.00)}}{t} + \frac{0.0968 \text{ Log}}{t} \\ &\quad (16.889) + \frac{0.0782 \text{ Log (10.304)}}{t} + \frac{0.3037 \text{ Log}}{t} \\ &\quad (109.790) + \frac{0.5439 \text{ Log (151.45)}}{t} + \frac{0.3734}{t} \\ &\quad \text{Log (11.474)}\end{aligned}$$

$$\begin{aligned}\frac{\text{Log KS}}{t} &= 0.0784 - \frac{1.9996}{t} + \frac{0.1188}{t} + \frac{0.0792}{t} + \frac{1.1098}{t} + \\ &\quad 0.6621 + \frac{0.3957}{t}\end{aligned}$$

$$\frac{\text{Log KS}}{t} = 0.4444$$

Antilogkan Log KST

$$\frac{\text{KS}}{t} = 2.78$$

B) Andaian Kedua.

Kuantiti perkhidmatan keretapi diminta oleh penumpang KTM adalah 360.00. Pada kuantiti ini harga purata yang dikenakan ialah :

$$\begin{aligned}\frac{\text{Log QD}}{t} &= \text{Log } 2.0388 - \frac{0.4171 \text{ Log H}}{t} + \frac{0.2702 \text{ Log M}}{t} + \frac{0.0542 \text{ Log Z}}{t} + \frac{0.5082 \text{ Log QD}}{t-1} + \frac{0.5695}{t}\end{aligned}$$

$$\frac{\text{Log HP}}{t}$$

$$\begin{aligned}\frac{0.4171 \text{ Log H}}{t} &= \text{Log } 2.0388 + \frac{0.2702 \text{ Log M}}{t} + \frac{0.0542 \text{ Log Z}}{t} + \frac{0.5082 \text{ Log QD}}{t-1} - \frac{\text{Log QD}}{t} + \frac{0.5695}{t}\end{aligned}$$

$$\frac{\text{Log HP}}{t}$$

$$= \text{Log } 2.0388 + \frac{0.2702 \text{ Log (668.7)}}{t} + 0.0542$$

$$- \text{Log (14.297)} + \frac{0.5082 \text{ Log (229.43)}}{t} -$$

$$- \text{Log (360.00)} + \frac{0.5695 \text{ Log (4.1)}}{t}$$

$$= 0.3094 + 0.7651 + 0.0626 + 1.2268 - 2.556 \\ + 0.3489$$

$$\frac{0.4171 \text{ Log } H}{t} = 0.1565$$

$$\frac{\text{Log } H}{t} = 0.1565 \\ \frac{0.4171}{0.4171} = 0.375$$

Antilogkan Log Ht

$$\frac{H}{t} = 2.37$$

Pada kuantiti yang sama, kos sut adalah :

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - 0.7982 \frac{\text{Log QB}}{t} + 0.0968 \frac{\text{Log QB}}{t}$$

$$+ 0.0782 \frac{\text{Log PBD}}{t} + 0.3037 \frac{\text{Log F}}{t} + 0.5439$$

$$\frac{\text{Log W}}{t} + 0.3734 \frac{\text{Log CB}}{t}$$

$$\frac{\text{Log KS}}{t} = \frac{\text{Log } 1.1979}{t} - 0.7982 \frac{\text{Log } (360.00)}{t} + 0.0968 \frac{\text{Log}}$$

$$(16.889) + 0.0782 \frac{\text{Log } (10.304)}{t} + 0.3037 \frac{\text{Log}}$$

$$(109.79) + 0.5439 \frac{\text{Log } (151.45)}{t} + 0.3734$$

$$\text{Log } (11.474)$$

$$\frac{\text{Log KS}}{t} = 0.0784 - 2.0404 + 0.1188 + 0.0792 + 1.1098 + \\ 0.6671 + 0.3957$$

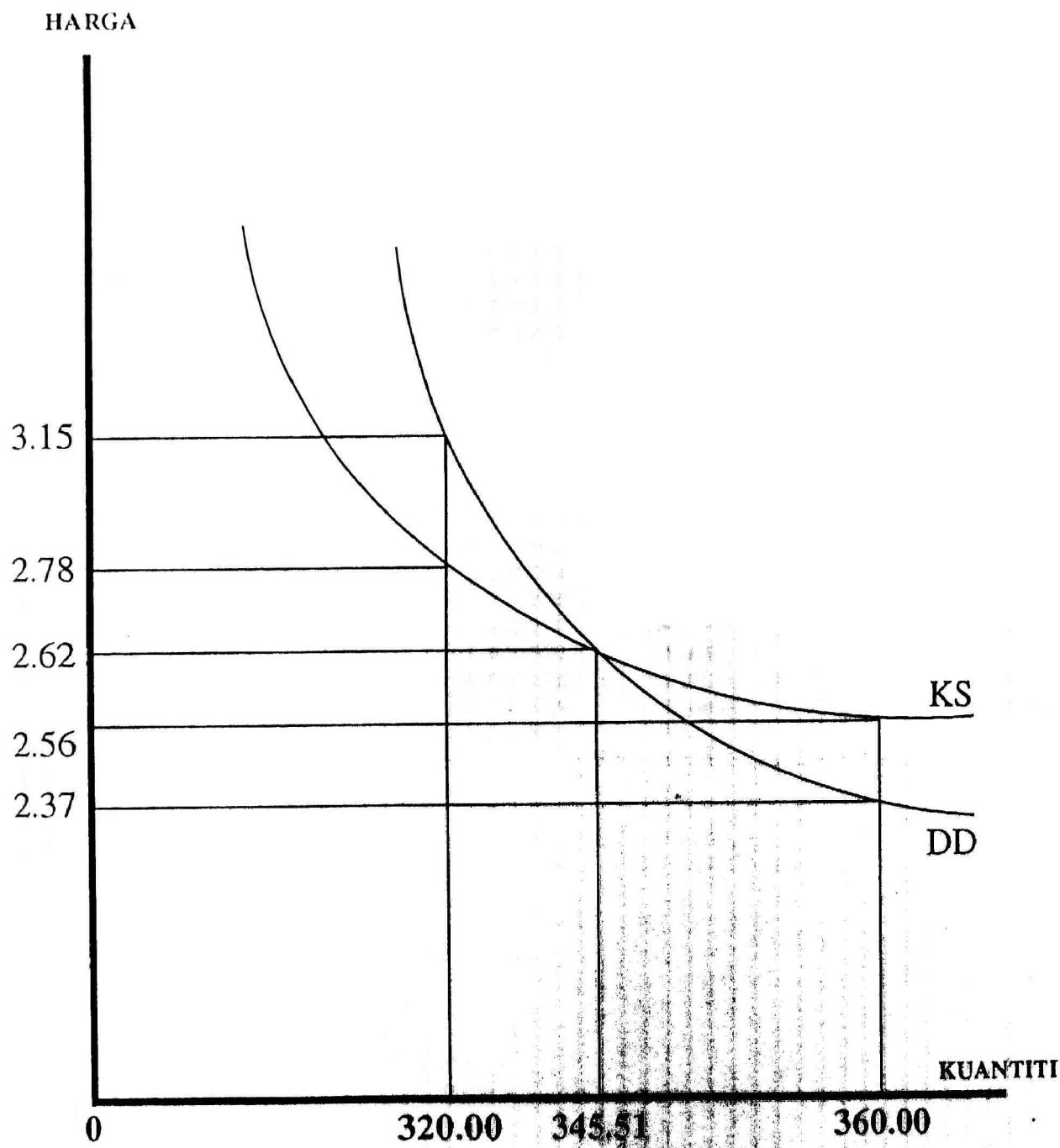
$$\frac{\text{Log KS}}{t} = 0.4086$$

Antilogkan Log KST

$$\frac{KS}{t} = 2.562$$

Rajah berikut menunjukkan keluk kos sut terletak di bawah keluk permintaan sebelum titik keseimbangan dan selepas titik keseimbangan keluk kos sut terletak di atas keluk permintaan.

Rajah 5.5 : Menunjukkan perhubungan antara keluk kos sut dan permintaan untuk tahun 1990



SUMBER : Pengiraan pada tahun 1990

LS// Dependent Variable is QDT

Date:10-26-1994 / Time: 8:30

SMPL range: 1971 - 1990

Number of observations: 20

VARIABLE	COEFFICIENT	STD. ERROR	T-STAT.	2-TAIL SIG.
C	2.0388148	0.9640154	2.1149145	0.050
HT	-0.4171547	0.1768542	-2.3601457	0.005
HPT	0.5695124	0.1457486	3.9088124	0.002
MT	0.2702123	0.1068754	2.5304332	0.032
ZT	0.0542123	0.0590343	0.9185432	0.383
QDT(-1)	0.5082334	0.1832432	2.7732442	0.015

R-squared	0.955321	Mean of dependent var	6.950331
Adjusted R-squared	0.954049	S.D. of dependent var	1.048834
S.E. of regression	0.224830	Sum of squared resid	0.707678
Durbin-Watson Stat	1.871202	F-statistic	82.23789
Log likelihood	5.036219		

Covariance Matrix

C,C	0.909042	C,HT	-0.020983
C,HPT	0.099576	C,MT	-0.051568
C,ZT	0.019241	C,QDT(-1)	-0.129315
HT,HT	0.035853	HT,HPT	-0.019977
HT,MT	-0.008094	HT,ZT	-0.007670
HT,QDT(-1)	-0.007090	HPT,HPT	0.022812
HPT,MT	0.001258	HPT,ZT	0.006483
HPT,QDT(-1)	-0.013527	MT,MT	0.012727
MT,ZT	0.001160	MT,QDT(-1)	0.001283
ZT,ZT	0.003629	ZT,QDT(-1)	-0.002469
QDT(-1),QDT(-1)	0.033359		

LS// Dependent Variable is CT

Date:10-26-1994 / Time: 8:30

SMPLE range: 1971 - 1990

Number of observations: 21

=====

VARIABLE	COEFFICIENT	STD. ERROR	T-STAT.	2-TAIL SIG.
C	5.9356008	2.3724512	2.5018853	0.025
QDT	0.2018119	0.0666913	3.0260595	0.009
QBT	0.0967586	0.0302982	3.1935466	0.007
PBDT	0.0781865	0.0240531	3.2505771	0.006
WT	0.5439396	0.2185531	2.4888216	0.026
FT	0.3036891	0.1588285	1.9120575	0.077
CBT	0.3734120	0.0776339	4.8099078	0.000

=====

R-squared 0.955985 Mean of dependent var 15.27373

Adjusted R-squared 0.937121 S.D. of dependent var 0.770298

S.E. of regression 0.175604 Sum of squared resid 0.431715

Durbin-Watson Stat 2.569607 F-statistic 50.67888

Log likelihood 10.98967

=====

Covariance Matrix

C,C	5.628525	C,QDT	-0.153136
C,CBT	-0.042725	C,PBDT	0.028505
C,WT	-0.267915	C,FT	-0.316366
C,CBT	-0.153653	QDT,QDT	0.004448
QDT,QBT	0.001083	QDT,PBDT	-0.000713
QDT,WT	0.005331	QDT,FT	0.008360
QDT,CBT	0.004446	QBT,QBT	0.000918
QBT,PBDT	-0.000409	QBT,WT	0.005032
QBT,FT	0.000758	QBT,CBT	0.001593
PBDT,PBDT	0.000579	PBDT,WT	-0.002918
PBDT,FT	-0.001247	PBDT,CBT	-0.001144
WT,WT	0.047765	WT,FT	0.005341
WT,CBT	0.010253	FT,FT	0.025226
FT,CBT	0.005669	CBT,CBT	0.006027

=====

LS// Dependent Variable is CT

Date:10-26-1994 / Time: 8:39

SMPLE range: 1971 - 1990

Number of observations: 20

Convergence achieved after 5 iterations

VARIABLE	COEFFICIENT	STD. ERROR	T-STAT.	2-TAIL SIG.
C	10.232070	2.0199932	5.0653982	0.000
QDT	0.0880332	0.0550120	1.6002540	0.038
QBT	0.0709413	0.0221788	3.1986096	0.008
PBDT	0.1667258	0.1328699	1.2548055	0.023
WT	0.2927411	0.1653145	1.7708131	0.026
FT	0.0028610	0.1541538	0.0185591	0.986
CBT	0.2239612	0.0660465	3.3909635	0.006
AR(-1)	-0.0786096	0.0862203	-0.9117259	0.381
AR(-2)	0.0431983	0.0180819	2.3890345	0.360
R-squared	0.981902	Mean of dependent var	15.30017	
Adjusted R-squared	0.968740	S.D. of dependent var	0.707654	
S.E. of regression	0.125117	Sum of squared resid	0.172197	
Durbin-Watson Stat	2.385035	F-statistic	74.60034	
Log likelihood	19.16972			

Covariance Matrix

C,C	4.080372	C,QDT	-0.105094
C,CBT	-0.027876	C,PBDT	-0.026955
C,WT	-0.205343	C,FT	-0.194762
C,CBT	-0.108952	QDT,AR(-1)	0.016090
C,AR(-2)	0.019391	QDT,QDT	0.003026
QDT,QBT	0.000726	QDT,PBDT	-0.000868
QDT,WT	0.004226	QDT,FT	0.005988
QDT,CBT	0.003245	QBT,AR(-1)	0.000620
QBT,AR(-2)	-0.000340	QBT,QBT	0.000492
QBT,PBDT	-0.000173	QBT,WT	0.002825
QBT,FT	0.000658	QBT,CBT	0.001026
QBT,AR(-1)	-7.560-06	QBT,AR(-2)	-5.95D-05
PBDT,PBDT	0.017654	PBDT,WT	0.001660
PBDT,FT	-0.011885	PBDT,CBT	-0.002292
PBDT,AR(-1)	-0.011303	PBDT,AR(-2)	-0.001682
WT,WT	0.027329	WT,FT	0.004320
WT,CBT	0.006761	WT,AR(-1)	-0.001903
WT,AR(-2)	-0.000906	FT,FT	0.023763
FT,CBT	0.005733	FT,AR(-1)	0.008115
FT,AR(-2)	0.000113	CBT,CBT	0.004362
CBT,AR(-1)	0.001380	CBT,AR(-2)	-0.000255
AR(-1),AR(-1)	0.007434	AR(-1),AR(-2)	0.000996
AR(-2),AR(-2)	0.000327		

SECTION 5

FARES, RATES AND CHARGES—PASSENGER

WILL Amendments
PUBLISHED
KURU TAI, APRIL 1956.

MALAYAN RAILWAY

TARIFF BOOK

No. 11

published

(a) in so far as the same apply within the Federation of Malaya, under sections 40 and 42 of the Railway Ordinance, 1948. (M.U. Ord. No. 8/1948);

and

(b) in so far as the same apply within the Colony of Singapore, under section 55 of the Railways Ordinance (S.S. Cap. 107). *Amend Slip No. 2*

In force from 1st April, 1956.

C. G. HARRISON,
General Manager,
Malayan Railway.

Printed at The Economy Printers, Ltd.
Kuala Lumpur.

1956

CHAPTER III

CONVEYANCE OF PASSENGERS

45. ORDINARY FARES.

(a) Ordinary passenger tickets for travel by passenger trains are issued at the following rates:

First Class ....	....	14.7 cents per mile
Second Class ....	....	7.05 " "
Third Class ....	....	4.7 " "

First and Second Class fares are rounded off to the next higher 10 cents and Third Class fares are rounded off to the next higher 5 cents.

(b) Passengers travelling by railway ferry between Penang and Prai, and between Palekbang and Kota Bharu (Kelantan) are charged at the following rates:

Penang—Prai

First Class ....	....	90 cents per passenger
Second Class ....	....	45 " "
Third Class ....	....	30 " "

Palekbang—Kota Bharu (Kelantan)

15 cents per passenger

Note: Tickets are not issued solely for the purpose of travel between Palekbang and Kota Bharu (Kelantan), but the charge of 15 cents per passenger will be added to all passenger tickets issued to or from Kota Bharu (Kelantan).

(c) Children under three years of age are conveyed free. Children who have attained the age of 3 years and are under the age of 12 years are conveyed at half fare.

46. CONCESSION FARES FOR SERVICES' PERSONNEL.

(a) Officers and other ranks of Her Majesty's Forces, Commonwealth, Federation or Singapore Forces, and their wives, families and servants accompanying them (not exceeding five in number) when travelling on duty or on leave may, upon presentation to the booking clerk of a warrant signed by an authorised officer, be issued with single journey tickets, First, Second or Third Class as the case may be, at three quarters the ordinary single Tariff Book fare.

(b) The wives, families and servants (not exceeding five in number) of such Officers and other ranks may, upon presentation of a duly signed warrant, be granted the concessional fare prescribed in clause (a) of this Regulation on not more than two occasions yearly.

SEASON TICKETS.

Rates for monthly and quarterly season tickets are as follows:

- (a) Monthly season tickets for travel by passenger train between any two specified stations not more than 50 miles apart:

1st Class	2nd Class	3rd Class
\$ 4.50	\$ 2.20	\$ 1.50 per mile per month

Minimum charge \$4.50 per season ticket

- (b) Monthly season tickets between Penang and Prai by railway ferry:

1st Class	2nd Class	3rd Class
\$27.00	\$18.50	\$ 9.00 per season ticket

- (c) Monthly season tickets between Palekbang and Kota Bharu (Kelantan) by railway ferry:

\$4.50 per season ticket *

- (d) Quarterly (three-monthly) season tickets for travel by passenger train between any two specified stations not more than 50 miles apart:

1st Class	2nd Class	3rd Class
\$11.80	\$ 5.70	\$ 3.80 per mile for 3 months

- (e) Quarterly (three-monthly) season tickets between Penang and Prai by railway ferry:

1st Class	2nd Class	3rd Class
\$72.00	\$36.00	\$24.00

- (f) Quarterly (three-monthly) season tickets between Palekbang and Kota Bharu (Kelantan) by railway ferry:

\$12.00 per season ticket *

* Note: Season tickets are not issued solely for the purpose of travel between Palekbang and Kota Bharu (Kelantan), but the charges specified in uses (c) and (f) of this Regulation will be added to any season ticket issued or from Kota Bharu (Kelantan).

I. CHILDREN'S SEASON TICKETS.

Season tickets for children under 12 years of age are charged half the rates prescribed in Regulation 47 rounded off to the next higher five cents subject to a minimum charge of \$2.25 per season ticket.

II. SCHOLARS' SEASON TICKETS.

- (a) Scholars' season tickets are issued to students, irrespective of age, attending any day school, for the purpose of travelling between home and school stations, situated not more than 30 miles apart. Each application must be certified by the Principal, Head Master or Head Mistress to the effect that the applicant is a bona fide student of the school.

TABLE OF PASSENGER FARES

Appendix J.
TABLE OF PASSENGER FARES.
 (Regulation 45)

Miles	Class I \$. c.	Class II \$. c.	Class III \$. c.	Miles	Class I \$. c.	Class II \$. c.	Class III \$. c.
1	1.00	.50	.20	51	7.60	3.60	2.40
2	1.00	.50	.20	52	7.80	3.70	2.45
3	1.00	.50	.20	53	7.80	3.80	2.50
4	1.00	.50	.20	54	8.00	3.90	2.55
5	1.00	.50	.25	55	8.20	3.90	2.60
6	1.00	.50	.30	56	8.40	4.00	2.65
7	1.20	.50	.35	57	8.40	4.10	2.70
8	1.20	.60	.40	58	8.60	4.10	2.75
9	1.40	.70	.45	59	8.80	4.20	2.80
10	1.60	.80	.50	60	9.00	4.30	2.85
11	1.80	.80	.55	61	9.00	4.40	2.90
12	1.80	.90	.60	62	9.20	4.40	2.95
13	2.00	1.00	.65	63	9.40	4.50	3.00
14	2.20	1.00	.70	64	9.60	4.60	3.05
15	2.40	1.10	.75	65	9.60	4.60	3.10
16	2.40	1.20	.80	66	9.80	4.70	3.15
17	2.60	1.20	.80	67	10.00	4.80	3.15
18	2.80	1.30	.85	68	10.00	4.80	3.20
19	2.80	1.40	.90	69	10.20	4.90	3.25
20	3.00	1.50	.95	70	10.40	5.00	3.30
21	3.20	1.50	1.00	71	10.60	5.10	3.35
22	3.40	1.60	1.05	72	10.60	5.10	3.40
23	3.40	1.70	1.10	73	10.80	5.20	3.45
24	3.60	1.70	1.15	74	11.00	5.30	3.50
25	3.80	1.80	1.20	75	11.20	5.80	3.55
26	4.00	1.90	1.25	76	11.20	5.40	3.60
27	4.00	2.00	1.30	77	11.40	5.50	3.65
28	4.20	2.00	1.35	78	11.60	5.50	3.70
29	4.40	2.10	1.40	79	11.80	5.60	3.75
30	4.60	2.20	1.45	80	11.80	5.70	3.80
31	4.60	2.20	1.50	81	12.00	5.80	3.85
32	4.80	2.30	1.55	82	12.20	5.80	3.90
33	5.00	2.40	1.60	83	12.40	5.90	3.95
34	5.00	2.40	1.60	84	12.40	6.00	3.95
35	5.20	2.50	1.65	85	12.60	6.00	4.00
36	5.40	2.60	1.70	86	12.80	6.10	4.05
37	5.60	2.70	1.75	87	12.80	6.20	4.10
38	5.60	2.70	1.80	88	13.00	6.30	4.15
39	5.80	2.80	1.85	89	13.20	6.30	4.20
40	6.00	2.90	1.90	90	13.40	6.40	4.25
41	6.20	2.90	1.95	91	13.40	6.50	4.30
42	6.20	3.00	2.00	92	13.60	6.60	4.35
43	6.40	3.10	2.05	93	13.80	6.70	4.40
44	6.60	3.20	2.10	94	14.00	6.70	4.45
45	6.80	3.20	2.15	95	14.00	6.70	4.50
46	6.80	3.30	2.20	96	14.20	6.80	4.55
47	7.00	3.40	2.25	97	14.40	6.90	4.60
48	7.20	3.40	2.30	98	14.60	7.00	4.65
49	7.40	3.50	2.35	99	14.60	7.00	4.70
50	7.40	3.60	2.35	100	14.80	7.10	4.70

TABLE OF PASSENGER FARES

TABLE OF PASSENGER FARES.—(contd.)

Class I \$ c.	Class II \$ c.	Class III \$ c.	Miles	Class I \$ c.	Class II \$ c.	Class III \$ c.
15.00	7.20	4.75	151	22.20	10.70	7.10
15.00	7.20	4.80	152	22.40	10.80	7.15
15.20	7.30	4.85	153	22.60	10.80	7.20
15.40	7.40	4.90	154	22.80	10.90	7.25
15.60	7.50	4.95	155	22.80	11.00	7.30
15.60	7.50	5.00	156	23.00	11.00	7.35
15.80	7.60	5.05	157	23.20	11.10	7.40
16.00	7.70	5.10	158	23.40	11.20	7.45
16.20	7.70	5.15	159	23.40	11.30	7.50
16.20	7.80	5.20	160	23.60	11.30	7.55
16.40	7.90	5.25	161	23.00	11.40	7.60
16.60	7.90	5.30	162	24.00	11.50	7.65
16.80	8.00	5.35	163	24.00	11.50	7.70
16.80	8.10	5.40	164	24.20	11.60	7.75
17.00	8.20	5.45	165	24.40	11.70	7.80
17.20	8.20	5.50	166	24.60	11.80	7.85
17.20	8.30	5.50	167	24.60	11.80	7.85
17.40	8.40	5.55	168	24.80	11.90	7.90
17.60	8.40	5.60	169	25.00	12.00	7.95
17.80	8.50	5.65	170	25.00	12.00	8.00
17.80	8.60	5.70	171	25.20	12.10	8.05
18.00	8.70	5.75	172	25.40	12.20	8.10
18.20	8.70	5.80	173	25.60	12.20	8.15
18.40	8.80	5.85	174	25.60	12.30	8.20
18.40	8.90	5.90	175	25.80	12.40	8.25
18.60	8.90	5.95	176	26.00	12.50	8.30
18.80	9.00	6.00	177	26.20	12.50	8.35
19.00	9.10	6.05	178	26.20	12.60	8.40
19.00	9.10	6.10	179	26.40	12.70	8.45
19.20	9.20	6.15	180	26.60	12.70	8.50
19.40	9.30	6.20	181	26.80	12.80	8.55
19.60	9.40	6.25	182	26.80	12.90	8.60
19.60	9.40	6.30	183	27.00	13.00	8.65
19.80	9.50	6.30	184	27.20	13.00	8.65
20.00	9.60	6.35	185	27.20	13.10	8.70
20.00	9.60	6.40	186	27.40	13.20	8.75
20.20	9.70	6.45	187	27.60	13.20	8.80
20.40	9.80	6.50	188	27.80	13.30	8.85
20.60	9.80	6.55	189	27.80	13.40	8.90
20.60	9.90	6.60	190	28.00	13.40	8.95
20.80	10.00	6.65	191	28.20	13.50	9.00
21.00	10.10	6.70	192	28.40	13.60	9.05
21.20	10.10	6.75	193	28.40	13.70	9.10
21.20	10.20	6.80	194	28.60	13.70	9.15
21.40	10.30	6.85	195	28.80	13.80	9.20
21.60	10.30	6.90	196	29.00	13.90	9.25
21.80	10.40	6.95	197	29.00	13.90	9.30
21.80	10.50	7.00	198	29.20	14.00	9.35
22.00	10.60	7.05	199	29.40	14.10	9.40
22.20	10.60	7.05	200	29.40	14.10	9.40

TABLE OF PASSENGER FARES

TABLE OF PASSENGER FARES.—(contd.)

les	Class I \$ c.	Class II \$ c.	Class III \$ c.	Miles	Class I \$ c.	Class II \$ c.	Class III \$ c.
1	29.60	14.20	9.45	251	37.00	17.70	11.80
2	29.80	14.30	9.50	252	37.20	17.80	11.85
3	30.00	14.40	9.55	253	37.20	17.90	11.90
4	30.00	14.40	9.60	254	37.40	18.00	11.95
5	30.20	14.50	9.65	255	37.60	18.00	12.00
6	30.40	14.60	9.70	256	37.80	18.10	12.05
7	30.60	14.60	9.75	257	37.80	18.20	12.10
8	30.60	14.70	9.80	258	38.00	18.20	12.15
9	30.80	14.80	9.85	259	38.20	18.30	12.20
0	31.00	14.90	9.90	260	38.40	18.40	12.25
11	31.20	14.90	9.95	261	38.40	18.50	12.30
12	31.20	15.00	10.00	262	38.60	18.50	12.35
13	31.40	15.10	10.05	263	38.80	18.60	12.40
14	31.60	15.10	10.10	264	39.00	18.70	12.45
15	31.80	15.20	10.15	265	39.00	18.70	12.50
16	31.80	15.30	10.20	266	39.20	18.80	12.55
17	32.00	15.30	10.20	267	39.40	18.90	12.55
18	32.20	15.40	10.25	268	39.40	18.90	12.60
19	32.20	15.50	10.30	269	39.60	19.00	12.65
20	32.40	15.60	10.35	270	39.80	19.10	12.70
21	32.60	15.60	10.40	271	40.00	19.20	12.75
22	32.80	15.70	10.45	272	40.00	19.20	12.80
23	32.80	15.80	10.50	273	40.20	19.30	12.85
24	33.00	15.80	10.55	274	40.40	19.40	12.90
25	33.20	15.90	10.60	275	40.60	19.40	12.95
26	33.40	16.00	10.65	276	40.60	19.50	13.00
27	33.40	16.10	10.70	277	40.80	19.60	13.05
28	33.60	16.10	10.75	278	41.00	19.60	13.10
29	33.80	16.20	10.80	279	41.20	19.70	13.15
30	34.00	16.30	10.85	280	41.20	19.80	13.20
31	34.00	16.30	10.90	281	41.40	19.90	13.25
32	34.20	16.40	10.95	282	41.60	19.90	13.30
33	34.40	16.50	11.00	283	41.80	20.00	13.35
34	34.40	16.50	11.00	284	41.80	20.10	13.35
35	34.60	16.60	11.05	285	42.00	20.10	13.40
36	34.80	16.70	11.10	286	42.20	20.20	13.45
37	35.00	16.80	11.15	287	42.20	20.30	13.50
38	35.00	16.80	11.20	288	42.40	20.40	13.55
39	35.20	16.90	11.25	289	42.60	20.40	13.60
40	35.40	17.00	11.30	290	42.80	20.50	13.65
41	35.60	17.00	11.35	291	42.80	20.60	13.70
42	35.60	17.10	11.40	292	43.00	20.60	13.75
43	35.80	17.20	11.45	293	43.20	20.70	13.80
44	36.00	17.30	11.50	294	43.40	20.80	13.85
45	36.20	17.30	11.55	295	43.40	20.80	13.90
46	36.20	17.40	11.60	296	43.60	20.90	13.95
47	36.40	17.50	11.65	297	43.80	21.00	14.00
48	36.60	17.50	11.70	298	44.00	21.10	14.05
49	36.80	17.60	11.75	299	44.00	21.10	14.10
50	36.80	17.70	11.75	300	44.20	21.20	14.10

TABLE OF PASSENGER FARES

TABLE OF PASSENGER FARES.—(contd.)

Class I \$ c.	Class II \$ c.	Class III \$ c.	Miles	Class I \$ c.	Class II \$ c.	Class III \$ c.
44.40	21.30	14.15	351	51.60	24.80	16.50
44.40	21.30	14.20	352	51.80	24.90	16.55
44.60	21.40	14.25	353	52.00	24.90	16.60
44.80	21.50	14.30	354	52.20	25.00	16.65
45.00	21.60	14.35	355	52.20	25.10	16.70
45.00	21.60	14.40	356	52.40	25.10	16.75
45.20	21.70	14.45	357	52.60	25.20	16.80
45.40	21.80	14.50	358	52.80	25.30	16.85
45.60	21.80	14.55	359	52.80	25.40	16.90
45.60	21.90	14.60	360	53.00	25.40	16.95
45.80	22.00	14.65	361	53.20	25.50	17.00
46.00	22.00	14.70	362	53.40	25.60	17.05
46.20	22.10	14.75	363	53.40	25.60	17.10
46.20	22.20	14.80	364	53.60	25.70	17.15
46.40	22.30	14.85	365	53.80	25.80	17.20
46.60	22.30	14.90	366	54.00	25.90	17.25
46.60	22.40	14.90	367	54.00	25.90	17.25
46.80	22.50	14.95	368	54.20	26.00	17.30
47.00	22.50	15.00	369	54.40	26.10	17.35
47.20	22.60	15.05	370	54.40	26.10	17.40
47.20	22.70	15.10	371	54.60	26.20	17.45
47.40	22.80	15.15	372	54.80	26.30	17.50
47.60	22.80	15.20	373	55.00	26.30	17.55
47.80	22.90	15.25	374	55.00	26.40	17.60
47.80	23.00	15.30	375	55.20	26.50	17.65
48.00	23.00	15.35	376	55.40	26.60	17.70
48.20	23.10	15.40	377	55.60	26.60	17.75
48.40	23.20	15.45	378	55.60	26.70	17.80
48.40	23.20	15.50	379	55.80	26.80	17.85
48.60	23.30	15.55	380	56.00	26.80	17.90
48.80	23.40	15.60	381	56.20	26.90	17.95
49.00	23.50	15.65	382	56.20	27.00	18.00
49.00	23.50	15.70	383	56.40	27.10	18.05
49.20	23.60	15.70	384	56.60	27.10	18.05
49.40	23.70	15.75	385	56.60	27.20	18.10
49.40	23.70	15.80	386	56.80	27.80	18.15
49.60	23.80	15.85	387	57.00	27.80	18.20
49.80	23.90	15.90	388	57.20	27.40	18.25
50.00	23.90	15.95	389	57.20	27.50	18.30
50.00	24.00	16.00	390	57.40	27.50	18.35
50.20	24.10	16.05	391	57.60	27.60	18.40
50.40	24.20	16.10	392	57.80	27.70	18.45
50.60	24.20	16.15	393	57.80	27.80	18.50
50.60	24.30	16.20	394	58.00	27.80	18.55
50.80	24.40	16.25	395	58.20	27.90	18.60
51.00	24.40	16.30	396	58.40	28.00	18.65
51.20	24.50	16.35	397	58.40	28.00	18.70
51.20	24.60	16.40	398	58.60	28.10	18.75
51.40	24.70	16.45	399	58.80	28.20	18.80
51.60	24.70	16.45	400	58.80	28.20	18.80

TABLE OF PASSENGER FARES

TABLE OF PASSENGER FARES.—(contd.)

les	Class I \$ c.	Class II \$ c.	Class III \$ c.	Miles	Class I \$ c.	Class II \$ c.	Class III \$ c.
1	59.00	28.30	18.85	451	66.40	31.80	21.20
2	59.20	28.40	18.90	452	66.60	31.90	21.25
3	59.40	28.50	18.95	453	66.60	32.00	21.30
4	59.40	28.50	19.00	454	66.80	32.10	21.35
5	59.60	28.60	19.05	455	67.00	32.10	21.40
6	59.80	28.70	19.10	456	67.20	32.20	21.45
7	60.00	28.70	19.15	457	67.20	32.30	21.50
8	60.00	28.80	19.20	458	67.40	32.30	21.55
9	60.20	28.90	19.25	459	67.60	32.40	21.60
0	60.40	29.00	19.30	460	67.80	32.50	21.65
1	60.60	29.00	19.35	461	67.80	32.60	21.70
2	60.60	29.10	19.40	462	68.00	32.60	21.75
3	60.80	29.20	19.45	463	68.20	32.70	21.80
4	61.00	29.20	19.50	464	68.40	32.80	21.85
5	61.20	29.30	19.55	465	68.40	32.80	21.90
6	61.20	29.40	19.60	466	68.60	32.90	21.95
7	61.40	29.40	19.60	467	68.80	33.00	21.95
8	61.60	29.50	19.65	468	68.80	33.00	22.00
9	61.60	29.60	19.70	469	69.00	33.10	22.05
20	61.80	29.70	19.75	470	69.20	33.20	22.10
21	62.00	29.70	19.80	471	69.40	33.30	22.15
22	62.20	29.80	19.85	472	69.40	33.30	22.20
23	62.20	29.90	19.90	473	69.60	33.40	22.25
24	62.40	29.90	19.95	474	69.80	33.50	22.30
25	62.60	30.00	20.00	475	70.00	33.50	22.35
26	62.80	30.10	20.05	476	70.00	33.60	22.40
27	62.80	30.20	20.10	477	70.20	33.70	22.45
28	63.00	30.20	20.15	478	70.40	33.70	22.50
29	63.20	30.30	20.20	479	70.60	33.80	22.55
30	63.40	30.40	20.25	480	70.60	33.90	22.60
31	63.40	30.40	20.30	481	70.80	34.00	22.65
32	63.60	30.50	20.35	482	71.00	34.00	22.70
33	63.80	30.60	20.40	483	71.20	34.10	22.75
34	63.80	30.60	20.40	484	71.20	34.20	22.75
35	64.00	30.70	20.45	485	71.40	34.20	22.80
36	64.20	30.80	20.50	486	71.60	34.30	22.85
37	64.40	30.90	20.55	487	71.60	34.40	22.90
38	64.40	30.90	20.60	488	71.80	34.50	22.95
39	64.60	31.00	20.65	489	72.00	34.50	23.00
40	64.80	31.10	20.70	490	72.20	34.60	23.05
41	65.00	31.10	20.75	491	72.20	34.70	23.10
42	65.00	31.20	20.80	492	72.40	34.70	23.15
43	65.20	31.30	20.85	493	72.60	34.80	23.20
44	65.40	31.40	20.90	494	72.80	34.90	23.25
45	65.60	31.40	20.95	495	72.80	34.90	23.30
46	65.60	31.50	21.00	496	73.00	35.00	23.35
47	65.80	31.60	21.05	497	73.20	35.10	23.40
48	66.00	31.60	21.10	498	73.40	35.20	23.45
49	66.20	31.70	21.15	499	73.40	35.20	23.50
50	66.20	31.80	21.15	500	73.60	35.30	23.50

TABLE OF PASSENGER FARES

TABLE OF PASSENGER FARES.—(contd.)

M	Class I	Class II	Class III	Miles	Class I	Class II	Class III
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
5	73.80	35.40	23.55	551	81.00	38.90	25.90
5	73.80	35.40	23.60	552	81.20	39.00	25.95
5	74.00	35.50	23.65	553	81.40	39.00	26.00
5	74.20	35.60	23.70	554	81.60	39.10	26.05
5	74.40	35.70	23.75	555	81.60	39.20	26.10
5	74.40	35.70	23.80	556	81.80	39.20	26.15
5	74.60	35.80	23.85	557	82.00	39.30	26.20
5	74.80	35.90	23.90	558	82.20	39.40	26.25
5	75.00	35.90	23.95	559	82.20	39.50	26.30
5	75.00	36.00	24.00	560	82.40	39.50	26.35
5	75.20	36.10	24.05	561	82.60	39.60	26.40
5	75.40	36.10	24.10	562	82.80	39.70	26.45
5	75.60	36.20	24.15	563	82.80	39.70	26.50
5	75.60	36.30	24.20	564	83.00	39.80	26.55
5	75.80	36.40	24.25	565	83.20	39.90	26.60
5	76.00	36.40	24.30	566	83.40	40.00	26.65
5	76.00	36.50	24.30	567	83.40	40.00	26.65
5	76.20	36.60	24.35	568	83.60	40.10	26.70
5	76.40	36.60	24.40	569	83.80	40.20	26.75
5	76.60	36.70	24.45	570	83.80	40.20	26.80
5	76.60	36.80	24.50	571	84.00	40.30	26.85
5	76.80	36.90	24.55	572	84.20	40.40	26.90
5	77.00	36.90	24.60	573	84.40	40.40	26.95
5	77.20	37.00	24.65	574	84.40	40.50	27.00
5	77.20	37.10	24.70	575	84.60	40.60	27.05
5	77.40	37.10	24.75	576	84.80	40.70	27.10
5	77.60	37.20	24.80	577	85.00	40.70	27.15
5	77.80	37.30	24.85	578	85.00	40.80	27.20
5	77.80	37.30	24.90	579	85.20	40.90	27.25
5	78.00	37.40	24.95	580	85.40	40.90	27.30
5	78.20	37.50	25.00	581	85.60	41.00	27.35
5	78.40	37.60	25.05	582	85.60	41.10	27.40
5	78.40	37.60	25.10	583	85.80	41.20	27.45
5	78.60	37.70	25.10	584	86.00	41.20	27.45
5	78.80	37.80	25.15	585	86.00	41.30	27.50
5	78.80	37.80	25.20	586	86.20	41.40	27.55
5	79.00	37.90	25.25	587	86.40	41.40	27.60
5	79.20	38.00	25.30	588	86.60	41.50	27.65
5	79.40	38.00	25.35	589	86.60	41.60	27.70
5	79.40	38.10	25.40	590	86.80	41.60	27.75
5	79.60	38.20	25.45	591	87.00	41.70	27.80
5	79.80	38.30	25.50	592	87.20	41.80	27.85
5	80.00	38.30	25.55	593	87.20	41.90	27.90
5	80.00	38.40	25.60	594	87.40	41.90	27.95
5	80.20	38.50	25.65	595	87.60	42.00	28.00
5	80.40	38.50	25.70	596	87.80	42.10	28.05
5	80.60	38.60	25.75	597	87.80	42.10	28.10
5	80.60	38.70	25.80	598	88.00	42.20	28.15
5	80.80	38.80	25.85	599	88.20	42.30	28.20
5	81.00	38.80	25.85	600	88.20	42.30	28.20

TABLE OF PASSENGER FARES

TABLE OF PASSENGER FARES.—(contd.)

es	Class I \$ c.	Class II \$ c.	Class III \$ c.	Miles	Class I. \$ c.	Class II \$ c.	Class III \$ c.
	88.40	42.40	28.25	651	95.80	45.90	30.60
	88.60	42.50	28.30	652	96.00	46.00	30.65
	88.80	42.60	28.35	653	96.00	46.10	30.70
	88.80	42.60	28.40	654	96.20	46.20	30.75
	89.00	42.70	28.45	655	96.40	46.20	30.80
	89.20	42.80	28.50	656	96.60	46.30	30.85
	89.40	42.80	28.55	657	96.60	46.40	30.90
	89.40	42.90	28.60	658	96.80	46.40	30.95
	89.60	43.00	28.65	659	97.00	46.50	31.00
	89.80	43.10	28.70	660	97.20	46.60	31.05
	90.00	43.10	28.75	661	97.20	46.70	31.10
2	90.00	43.20	28.80	662	97.40	46.70	31.15
3	90.20	43.30	28.85	663	97.60	46.80	31.20
4	90.40	43.30	28.90	664	97.80	46.90	31.25
5	90.60	43.40	28.95	665	97.80	46.90	31.30
6	90.60	43.50	29.00	666	98.00	47.00	31.35
7	90.80	43.50	29.00	667	98.20	47.10	31.35
8	91.00	43.60	29.05	668	98.20	47.10	31.40
9	91.00	43.70	29.10	669	98.40	47.20	31.45
0	91.20	43.80	29.15	670	98.60	47.30	31.50
1	91.40	43.80	29.20	671	98.80	47.40	31.55
2	91.60	43.90	29.25	672	98.80	47.40	31.60
3	91.60	44.00	29.30	673	99.00	47.50	31.65
4	91.80	44.00	29.35	674	99.20	47.60	31.70
5	92.00	44.10	29.40	675	99.40	47.60	31.75
6	92.20	44.20	29.45	676	99.40	47.70	31.80
7	92.20	44.30	29.50	677	99.60	47.80	31.85
8	92.40	44.30	29.55	678	99.80	47.80	31.90
9	92.60	44.40	29.60	679	100.00	47.90	31.95
30	92.80	44.50	29.65	680	100.00	48.00	32.00
31	92.80	44.50	29.70	681	100.20	48.10	32.05
32	93.00	44.60	29.75	682	100.40	48.10	32.10
33	93.20	44.70	29.80	683	100.60	48.20	32.15
34	93.20	44.70	29.80	684	100.60	48.30	32.15
35	93.40	44.80	29.85	685	100.80	48.30	32.20
36	93.60	44.90	29.90	686	101.00	48.40	32.25
37	93.80	45.00	29.95	687	101.00	48.50	32.30
38	93.80	45.00	30.00	688	101.20	48.60	32.35
39	94.00	45.10	30.05	689	101.40	48.60	32.40
40	94.20	45.20	30.10	690	101.60	48.70	32.45
41	94.40	45.20	30.15	691	101.60	48.80	32.50
42	94.40	45.30	30.20	692	101.80	48.80	32.55
43	94.60	45.40	30.25	693	102.00	48.90	32.60
44	94.80	45.50	30.30	694	102.20	49.00	32.65
45	95.00	45.50	30.35	695	102.20	49.00	32.70
46	95.00	45.60	30.40	696	102.40	49.10	32.75
47	95.20	45.70	30.45	697	102.60	49.20	32.80
48	95.40	45.70	30.50	698	102.80	49.30	32.85
49	95.60	45.80	30.55	699	102.80	49.30	32.90
50	95.60	45.90	30.55	700	103.00	49.40	32.90

TABLE OF PASSENGER FARES

TABLE OF PASSENGER FARES.—(contd.)

Mile	ass I c.	Class II \$ c.	Class III \$ c.	Miles	Class I \$ c.	Class II \$ c.	Class III \$ c.
701	3.20	49.50	32.95	751	110.40	53.00	35.30
702	3.20	49.50	33.00	752	110.60	53.10	35.35
703	3.40	49.60	33.05	753	110.80	53.10	35.40
704	3.60	49.70	33.10	754	111.00	53.20	35.45
705	3.80	49.80	33.15	755	111.00	53.30	35.50
706	3.80	49.80	33.20	756	111.20	53.30	35.55
707	4.00	49.90	33.25	757	111.40	53.40	35.60
708	4.20	50.00	33.30	758	111.60	53.50	35.65
709	4.40	50.00	33.35	759	111.60	53.60	35.70
710	4.40	50.10	33.40	760	111.80	53.60	35.75
711	4.60	50.20	33.45	761	112.00	53.70	35.80
712	4.80	50.20	33.50	762	112.20	53.80	35.85
713	5.00	50.30	33.55	763	112.20	53.80	35.90
714	5.00	50.40	33.60	764	112.40	53.90	35.95
715	5.20	50.50	33.65	765	112.60	54.00	36.00
716	5.40	50.50	33.70	766	112.80	54.10	36.05
717	5.40	50.60	33.70	767	112.80	54.10	36.05
718	5.60	50.70	33.75	768	113.00	54.20	36.10
719	5.80	50.70	33.80	769	113.20	54.30	36.15
720	6.00	50.80	33.85	770	113.20	54.30	36.20
721	6.00	50.90	33.90	771	113.40	54.40	36.25
722	6.20	51.00	33.95	772	113.60	54.50	36.30
723	6.40	51.00	34.00	773	113.80	54.50	36.35
724	6.60	51.10	34.05	774	113.80	54.60	36.40
725	6.60	51.20	34.10	775	114.00	54.70	36.45
726	6.80	51.20	34.15	776	114.20	54.80	36.50
727	7.00	51.30	34.20	777	114.40	54.80	36.55
728	7.20	51.40	34.25	778	114.40	54.90	36.60
729	7.20	51.40	34.30	779	114.60	55.00	36.65
730	7.40	51.50	34.35	780	114.80	55.00	36.70
731	77.60	51.60	34.40				
732	77.80	51.70	34.45				
733	77.80	51.70	34.50				
734	08.00	51.80	34.50				
735	08.20	51.90	34.55				
736	08.20	51.90	34.60				
737	08.40	52.00	34.65				
738	08.60	52.10	34.70				
739	08.80	52.10	34.75				
740	08.80	52.20	34.80				
741	09.00	52.30	34.85				
742	09.20	52.40	34.90				
743	09.40	52.40	34.95				
744	09.40	52.50	35.00				
745	09.60	52.60	35.05				
746	09.80	52.60	35.10				
747	10.00	52.70	35.15				
748	10.00	52.80	35.20				
749	10.20	52.90	35.25				
750	10.40	52.90	35.25				

KERETAPI TANAH MELAYU

TARIFF BOOK No. 12

REGULATIONS AND CONDITIONS OF CARRIAGE RATES, FARES AND CHARGES FACILITIES AND SERVICES

Published under authority of:

The Railway Ordinance, 1948—Malaysia
The Railways Act (Cap. 91)—Singapore

by

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General Manager,
Malayan Railway

DICETAK OLEH
IBRAHIM BIN JOHARI, P.I.S., PEMANGKU KETUA PENGARAH PERCETAKAN
SEMPENA JUNO MALAYSIA, KUALA LUMPUR
1976

SECTION 5

FAR]**TES AND CHARGES—PASSENGER****ORDI****NRES****Item No. 5.01****(a)**

; twelve years of age or over are subject to the charges specified hereunder.

(b)
of th

; three years of age or over but less than twelve years of age are subject to one half of the charges specified hereunder.

(c)
speci

; or deaf persons twelve years of age or over will be charged half of the charges specified hereunder. (Regulation No. 4.28 of this Tariff).

(d)
charg

; or deaf persons three years of age or over but less than twelve years of age will be charged a quarter of the charges specified hereunder. (Regulation No. 4.28 of this Tariff).

(e)
appli

; liable for travel on ordinary trains from any station to any other station. For fares for travel on other trains, see respective Items in this Tariff.

(f)
to th

; passengers on commuter trains may be charged an additional 30 sen per journey in addition to the charges specified hereunder.

es	Transportation charge in ringgit per passenger			Distance in kilometres	Transportation charge in ringgit per passenger		
	First Class	Second Class	Third Class		First Class	Second Class	Third Class
	1.00	0.50	0.10	60	6.40	3.00	1.90
	1.00	0.50	0.15	62	6.60	3.10	1.95
	1.00	0.50	0.20	64	6.80	3.20	2.00
	1.00	0.50	0.25	66	7.00	3.30	2.10
	1.10	0.50	0.35	68	7.20	3.40	2.15
	1.30	0.60	0.40	70	7.40	3.50	2.20
	1.50	0.70	0.45	72	7.70	3.60	2.25
	1.70	0.80	0.50	74	7.90	3.70	2.35
	2.00	0.90	0.60	76	8.10	3.80	2.40
	2.20	1.00	0.65	78	8.30	3.90	2.45
	2.40	1.10	0.70	80	8.50	4.00	2.50
	2.60	1.20	0.75	82	8.70	4.10	2.60
	2.80	1.30	0.85	84	8.90	4.20	2.65
	3.00	1.40	0.90	86	9.10	4.30	2.70
	3.20	1.50	0.95	88	9.30	4.40	2.75
	3.40	1.60	1.00	90	9.60	4.50	2.80
	3.60	1.70	1.10	92	9.80	4.60	2.90
	3.90	1.80	1.15	94	10.00	4.70	2.95
	4.10	1.90	1.20	96	10.20	4.80	3.00
	4.30	2.00	1.25	98	10.40	4.90	3.05
	4.50	2.10	1.35	100	10.60	5.00	3.15
	4.70	2.20	1.40	102	10.80	5.10	3.20
	4.90	2.30	1.45	104	11.00	5.20	3.25
	5.10	2.40	1.50	106	11.20	5.30	3.30
	5.30	2.50	1.60	108	11.50	5.40	3.40
	5.50	2.60	1.65	110	11.70	5.50	3.45
	5.80	2.70	1.70	115	12.20	5.80	3.60
	6.00	2.80	1.75	120	12.70	6.00	3.75
	6.20	2.90	1.85				

(Continued on next page)

SECTION 5

ARES, R. Distance in kilometres	IND CHARGES--PASSENGER			Item No. 5.01 (Continued)			
	Transportation charge in ringgit per passenger			Distance in kilometres	Transportation charge in ringgit per passenger		
First Class	Second Class	Third Class	First Class	Second Class	Third Class		
125	3.20	6.30	3.90	360	38.10	17.90	11.20
130	3.80	6.50	4.05	370	39.10	18.40	11.55
135	4.30	6.80	4.20	380	40.20	18.90	11.85
140	4.80	7.00	4.40	390	41.20	19.40	12.15
145	5.40	7.30	4.55	400	42.30	19.90	12.45
150	5.90	7.50	4.70	410	43.30	20.40	12.80
155	6.40	7.80	4.85	420	44.40	20.90	13.10
160	6.90	8.00	5.00	430	45.50	21.40	13.40
165	7.50	8.30	5.15	440	46.50	21.90	13.70
170	8.00	8.50	5.30	450	47.60	22.40	14.00
175	8.50	8.70	5.45	460	48.60	22.90	14.35
180	9.10	9.00	5.60	470	49.70	23.40	14.65
185	9.60	9.20	5.80	480	50.70	23.90	14.95
190	0.10	9.50	5.95	490	51.80	24.40	15.25
195	0.60	9.70	6.10	500	52.80	24.90	15.55
200	1.20	10.00	6.25	510	53.90	25.40	15.90
210	2.20	10.50	6.55	520	55.00	25.90	16.20
220	3.30	11.00	6.85	530	56.00	26.40	16.50
230	4.30	11.50	7.20	540	57.10	26.90	16.80
240	5.40	12.00	7.50	550	58.10	27.40	17.15
250	6.40	12.50	7.80	560	59.20	27.90	17.45
260	7.50	13.00	8.10	570	60.20	28.40	17.75
270	8.60	13.50	8.40	580	61.30	28.90	18.05
280	9.60	14.00	8.75	590	62.40	29.40	18.35
290	0.70	14.50	9.05	600	63.40	29.90	18.70
300	1.70	15.00	9.35	610	64.50	30.40	19.00
310	2.80	15.50	9.65	620	65.50	30.90	19.30
320	3.80	16.00	10.00	630	66.60	31.40	19.60
330	4.90	16.50	10.30	640	67.60	31.90	19.95
340	6.00	16.90	10.60	650	68.70	32.40	20.25
350	7.00	17.40	10.90				

(Continued on next page)

SECTION 5

Traffic vi
des of a li
et to Reg
any stati

Item No. 5.13

bulky nature as listed in Item No. 5.14 of this Tariff.
No. 2.11 of this Tariff.
ny other stations.

Distance
in
metres

Weight of consignment in kilograms

	11 to 20	21 to 30	31 to 40	41 to 60
<i>Charge in ringgit per consignment</i>				
15	4.20	5.40	7.20	10.80
30	4.20	5.40	7.20	10.80
45	6.20	8.20	10.20	15.60
60	6.20	8.20	10.20	15.60
75	6.20	8.20	10.20	15.60
90	7.80	10.60	13.80	20.40
120	7.80	10.60	13.80	20.40
150	9.80	13.40	16.80	21.60
180	9.80	13.40	16.80	22.00
210	11.80	16.20	20.40	22.40
240	11.80	16.20	20.40	23.00
270	11.80	16.20	20.40	23.20
300	11.80	16.20	20.40	23.80
350	13.80	18.60	21.60	24.40
400	13.80	18.60	22.00	25.00
450	13.80	18.60	22.60	25.80
500	15.40	21.00	23.00	26.40
550	15.40	21.00	23.40	27.00
600	15.40	21.00	23.80	27.80
650	18.20	22.20	24.40	28.40
700	19.20	22.60	24.80	29.20
800	21.00	23.40	25.80	30.60
900	21.40	24.00	26.80	32.00
1,000	21.80	24.80	27.60	33.40
1,100	22.40	25.40	28.60	34.80
1,200	22.80	26.20	29.60	36.20
1,300	23.40	26.80	30.40	37.60

The charge
per Consignm
@ kilogramme

It will apply on the consignment as a whole regardless of the number of pieces or packages comprising the con-
signments. Consignment containing more than one package will be subject to a piece charge of 50 sen for each package in excess of one
package. The charge in excess of the first 60 kilogramme will be charged as a separate consignment.

SECTION 5

Pa affic viz: Item No. 5.12

all kinds, except as otherwise provided in Item No. 5.14.

to Regulation No. 2.11 of this Tariff.

ny station to any other station.

Distance in miles	Total weight of consignment in kilograms				
	Up to 10	11 to 20	21 to 30	31 to 40	41 to 60
Charge in ringgit per consignment					
15	1.20	2.10	2.70	3.60	5.40
30	1.20	2.10	2.70	3.60	5.40
45	1.70	3.10	4.10	5.10	7.80
60	1.70	3.10	4.10	5.10	7.80
75	1.70	3.10	4.10	5.10	7.80
90	2.30	3.90	5.30	6.90	10.20
120	2.30	3.90	5.30	6.90	10.20
150	2.90	4.90	6.70	8.40	10.80
180	2.90	4.90	6.70	8.40	11.00
210	3.50	5.90	8.10	10.20	11.20
240	3.50	5.90	8.10	10.20	11.50
270	3.50	5.90	8.10	10.20	11.60
300	3.50	5.90	8.10	10.20	11.90
350	4.10	6.90	9.30	10.80	12.20
400	4.10	6.90	9.30	11.00	12.50
450	4.10	6.90	9.30	11.30	12.90
500	4.50	7.70	10.50	11.50	13.20
550	4.50	7.70	10.50	11.70	13.50
600	4.50	7.70	10.50	11.90	13.90
650	5.40	9.10	11.10	12.20	14.20
700	5.60	9.60	11.30	12.40	14.60
800	6.20	10.50	11.70	12.90	15.30
900	6.80	10.70	12.00	13.40	16.00
1,000	7.30	10.90	12.40	13.80	16.70
1,100	7.90	11.20	12.70	14.30	17.40
1,200	8.50	11.40	13.10	14.80	18.10
1,300	9.10	11.70	13.40	15.20	18.80

The charges shown will apply on the consignment as a whole regardless of the number of pieces or packages comprising the consignment. Consignments consisting of more than one package will be subject to a piece charge 50 sen for each package in excess of one. Each 60 kg or part thereof in excess of the first 60 kilogramme will be charged as a separate consignment.

SECTION 5

CYCLES, MOTORCYCLES, MOTOR SCOOTERS, PERAMBULATORS
and WHEELCHAIRS

Item No. 5.11

Small vehicles for the personal use of passengers at the completion of the train journey that are conveyed by the same train as the passenger are subject to the following charges (See Regulations Nos. 1.54 and 4.23 of this Tariff).

Distance in kilometres	Charge in ringgit per item		
	Bicycles	Motorcycles Motor Scooters	Perambulators Wheelchairs
15	0.40	1.20	No charge
30	0.70	2.30	"
45	1.10	3.40	"
60	1.40	4.50	"
75	1.70	5.60	"
90	2.10	6.80	"
120	2.70	9.00	"
150	3.40	11.20	"
180	4.10	13.50	"
210	4.70	15.70	"
240	5.40	17.90	"
270	6.10	20.20	"
300	6.80	22.40	"
350	7.90	26.10	"
400	9.00	29.90	"
450	10.10	33.60	"
500	11.20	37.30	"
550	12.30	41.10	"
600	13.50	44.80	"
650	14.60	48.50	"
700	15.70	52.20	"
800	17.90	59.70	"
900	20.20	67.10	"
1,000	22.40	74.60	"
1,100	24.60	82.10	"
1,200	26.90	89.50	"
1,300	29.10	97.00	"

SECTION 5

RAPID TRAIN FARES

Item No. 5.10

Passengers three years of age or over are subject to the fares hereunder for travel on rapid trains Nos. 14 and 15.

From	To	CHARGES IN RINGGIT FOR A ONE WAY JOURNEY								
		Kuala Lumpur	Seremban	Tampin	Gemas	Segamat	Kluang	Johore Bahru	Singapore	
<i>Third Class Fares</i>										
<i>Second Class Fares</i>										
Kuala Lumpur .. A				3.20	4.70	6.35	7.15	9.70	12.40	13.20
	B			2.05	2.80	3.65	4.05	5.30	6.65	7.05
Seremban A		4.60		2.15	4.10	4.85	7.45	10.15	10.90	
	B	2.80		1.70	2.30	2.90	4.20	5.55	5.90	
Tampin A		7.10	3.40		2.60	3.35	5.90	8.60	9.40	
	B	4.10	2.20		1.75	2.15	3.40	4.75	5.15	
Gemas A		10.00	6.20	3.70		1.70	4.25	6.95	7.75	
	B	5.60	3.60	2.30		1.30	2.60	3.95	4.35	
Segamat A		11.20	7.40	4.90	2.20		3.50	6.20	6.95	
	B	6.20	4.20	2.90	1.60		2.20	3.55	3.95	
Kluang A		15.50	11.70	9.00	6.40	3.20		3.65	4.40	
	B	8.50	6.50	5.00	3.70	3.10		2.30	2.65	
Johore Bahru .. A		20.00	16.20	13.80	10.90	9.70	5.40		1.70	
	B	10.80	8.80	7.60	6.10	5.50	3.20		1.30	
Singapore A		21.30	17.40	15.00	12.20	10.90	6.60	2.20		
	B	11.50	9.40	8.20	6.70	6.10	3.80	1.60		

Line A—Applicable to passengers twelve years of age or over.

Line B—Applicable to passengers three years of age or over but less than twelve years of age.

SECTION 5

ZONE FARES—KEDAH BRANCH

Item No. 5.02

(a) Applicable to passengers twelve years of age or over travelling from any station on the Kedah Branch to any other station on the Kedah Branch (Index number 006 and Index numbers 403 to 473 inclusive).

(b) Children three years of age or over but less than twelve years of age are subject to one half of the charge specified below.

Distance in kilometres	Transportation charge in ringgit per passenger		Distance in kilometres	Transportation charge in ringgit per passenger	
	Second Class	Third Class		Second Class	Third Class
5	0.50	0.20	65	2.70	1.50
10	0.50	0.25	70	3.00	1.65
15	0.60	0.35	75	3.20	1.75
20	0.80	0.45	80	3.40	1.85
25	1.10	0.60	85	3.60	2.00
30	1.30	0.70	90	3.80	2.10
35	1.50	0.80	95	4.00	2.20
40	1.70	0.95	100	4.20	2.35
45	1.90	1.05	110	4.60	2.55
50	2.10	1.20	120	5.10	2.80
55	2.30	1.30	130	5.50	3.05
60	2.50	1.40	140	5.90	3.25
			150	6.30	3.50

GROUP FARES

Item No. 5.03

(a) Applicable to passengers travelling under the terms of Regulation No. 4.32 of this Tariff from any station to any other station and return.

(b) For the purpose of calculating the total charge, two children three years of age or over but less than twelve years of age will be counted as one adult.

Total round trip charge
per adult passenger

- (i) Ten to forty nine adults Ordinary one-way fare plus one half
- (ii) Fifty to ninety nine adults Ordinary one-way fare plus one third
- (iii) One hundred or more adults Ordinary one-way fare

(c) The Ordinary one-way fares referred to above are the fares published in the table of charges in Item 5.01 of this Tariff and are not the reduced fares as provided for in the list of Exceptions therein.

SECTION 5

FARES, RATES AND CHARGES—PASSENGER Item No. 5.01
(Concluded)

Distance in kilometres	Transportation charge in ringgit per passenger			Distance in kilometres	Transportation charge in ringgit per passenger		
	First Class	Second Class	Third Class		First Class	Second Class	Third Class
660	69.70	32.90	20.55	980	103.50	48.80	30.50
670	70.80	33.30	20.85	990	104.60	49.30	30.80
680	71.90	33.80	21.15	1,000	105.60	49.70	31.10
690	72.90	34.30	21.50	1,010	106.70	50.20	31.45
700	74.00	34.80	21.80	1,020	107.80	50.70	31.75
710	75.00	35.30	22.10	1,030	108.80	51.20	32.05
720	76.10	35.80	22.40	1,040	109.90	51.70	32.35
730	77.10	36.30	22.75	1,050	110.90	52.20	32.70
740	78.20	36.80	23.05	1,060	112.00	52.70	33.00
750	79.20	37.30	23.35	1,070	113.00	53.20	33.30
760	80.30	37.80	23.65	1,080	114.10	53.70	33.60
770	81.40	38.30	23.95	1,090	115.20	54.20	33.90
780	82.40	38.80	24.30	1,100	116.20	54.70	34.25
790	83.50	39.30	24.60	1,110	117.30	55.20	34.55
800	84.50	39.80	24.90	1,120	118.30	55.70	34.85
810	85.60	40.30	25.20	1,130	119.40	56.20	35.15
820	86.60	40.80	25.55	1,140	120.40	56.70	35.50
830	87.70	41.30	25.85	1,150	121.50	57.20	35.80
840	88.80	41.80	26.15	1,160	122.50	57.70	36.10
850	89.80	42.30	26.45	1,170	123.60	58.20	36.40
860	90.90	42.80	26.75	1,180	124.70	58.70	36.70
870	91.90	43.30	27.10	1,190	125.70	59.20	37.05
880	93.00	43.80	27.40	1,200	126.80	59.70	37.35
890	94.00	44.30	27.70	1,210	127.80	60.20	37.70
900	95.10	44.80	28.00	1,220	128.90	60.70	37.95
910	96.10	45.30	28.35	1,230	129.90	61.20	38.30
920	97.20	45.80	28.65	1,240	131.00	61.70	38.60
930	98.30	46.30	28.95	1,250	132.00	62.20	38.90
940	99.30	46.80	29.25	1,260	133.10	62.70	39.20
950	100.40	47.30	29.55	1,270	134.20	63.20	39.50
960	101.40	47.80	29.90	1,280	135.20	63.70	39.85
970	102.50	48.30	30.20	1,290	136.30	64.20	40.15
				1,300	137.30	64.70	40.45

SECTION 5

MONTHLY FARES

Item No. 5.04

(a) Applicable from any station to any other station within a distance of 100 kilometres.

(b) Monthly tickets become valid at 0001 hours on the first day of each month and expire at 2400 hours on the last day of the month. They are good for an unlimited number of trips during the month between the stations specified thereon or between intermediate stations in the direct line of transit.

(c) Monthly tickets are issued for the use of the purchaser only and are not transferable.

Distance in kilometres	Transportation charge in ringgit per passenger		Distance in Kilometres	Transportation charge in ringgit per passenger	
	Second Class	Third Class		Second Class	Third Class
5	9.10	5.70	55	99.60	62.70
10	18.10	11.40	60	108.60	68.40
15	27.20	17.10	65	117.70	74.10
20	36.20	22.80	70	126.70	79.80
25	45.30	28.50	75	135.80	85.50
30	54.30	34.20	80	144.80	91.20
35	63.40	39.90	85	153.90	96.90
40	72.40	45.60	90	162.90	102.60
45	81.50	51.30	95	172.00	108.30
50	90.50	57.00	100	181.00	114.00

STUDENT FARES

Item No. 5.05

(a) Applicable from any station to any other station specified on the ticket within a distance of 50 kilometres.

(b) Student tickets are valid only during the period of a school term as defined in Regulation No. 4.30 of this Tariff.

Distance in kilometres	Transportation charge in ringgit per passenger per term		Distance in kilometres	Transportation charge in ringgit per passenger per term	
	Third Class	Third Class		Third Class	Third Class
5	8.90	8.90	30	53.30	53.30
10	17.80	17.80	35	62.20	62.20
15	26.70	26.70	40	71.10	71.10
20	35.60	35.60	45	80.00	80.00
25	44.50	44.50	50	88.90	88.90

READY RECKONER

READY RECKONER.—(contd.)

MALAYAN WEIGHT

		Avoirdupois
1 Tahil		$1\frac{1}{4}$ oz.
16 Tahils	= 1 Kati	$1\frac{1}{4}$ lb.
1600 Tahils	= 100 Katis	
100 Katis	= 1 Pikul	$133\frac{1}{4}$ lbs.
40 Pikuls	= 1 Koyan	$5333\frac{1}{4}$ lbs.
16 Pikuls 80 katis		= 1 ton
16 Pikuls 53 katis		= 1 Metric ton

16 drachms	= 1 oz.	= $\frac{1}{3}$ tahil
16 ounces	= 1 lb.	= $\frac{1}{3}$ kati
28 lbs.	= 1 quarter	= 21 katis
4 qrs. (112 lbs.)	= 1 cwt.	= 84 katis
20 cwts. (2240 lbs.)	= 1 ton	= 1680 katis

To convert weight Avoirdupois into Malayan, multiply by 3 and divide by 4,
e.g. 168 lbs. $\times 3 \div 4 = 1$ Pikul 26 Katis.

To convert weight Malayan into Avoirdupois, multiply by 4 and divide by 3,
e.g. Pikuls 2.50 $\times 4 \div 3 = 333\frac{1}{3}$ lbs. avoirdupois = 2 cwts. 8 qrs. 25 $\frac{1}{3}$ lbs.

	Lbs. Ozs. Drachms.
1 Kilogramme	$= 2 \quad 3 \quad 4.383 = 1$ Kati 9.704 tahils
1 Metric ton	$= 2204$ lbs. = 16 Pikuls 53 katis.

Lineal Measure:

1 Mile (1,760 yards)	= 1.6093 Kilometres
1 Kilometre	= 0.62137 Mile (1093.6112 yards)

SECTION 5

FOR SCOUTS AND GIRL GUIDES

Item No. 5.06

(a) Applicable to Boy Scouts and Girl Guides travelling under the terms of Regulation No. 4.29 of this Tariff from any station to any other station and returning to the original starting station. The total round trip charge will be the Ordinary one-way fare plus one half.

(b) The Ordinary one-way fare referred to above is the fare published in the table of charges in Item 5.01 of this Tariff and is not the reduced fare as provided for in the list of exceptions herein.

SPECIAL ROUND TRIP FARES

Item No. 5.07

Applicable to passengers travelling in third class coaches from Gua Musang to stations specified hereunder and returning to Gua Musang.

Index No.	Station	Transportation charge for the round trip in ringgit per passenger	
		Adults	Children over three years of age but less than twelve years of age
762	Kuala Neroh	..	0.30
763	Sungei Kemudu	..	0.40
764	Chegor Bongor	..	0.55

SECTION 5

PILGRIMS AND WELL WISHERS

Item No. 5.08

(a) Applicable to pilgrims and well wishers twelve years of age or over travelling under the terms of Regulation No. 4.31 of this Tariff.

(b) Children three years of age or over but less than twelve years of age are subject to one half of the charge specified below.

Between and	Kuala Lumpur			Singapore			Butterworth		
	Transportation charge in ringgit per passenger for one round trip								
	First Class	Second Class	Third Class	First Class	Second Class	Third Class	First Class	Second Class	Third Class
Any Station in Kelantan (Index Nos. 751 to 880 inclusive.) ..	104.00	51.00	32.00	104.00	51.00	32.00	155.00	76.00	48.00
Any station in Pahang (Index Nos. 637 to 748 inclusive.) ..	55.00	26.00	16.50	55.00	26.00	16.50	—	—	—

SECTION 5

CHARTERED COACHES

Item No. 5.09

Coaches chartered under the terms of Regulation No. 4.33 of this Tariff are subject to the following charges:

Distance in kilometres	TRANSPORTATION CHARGE IN RINGGIT PER COACH						Empty haulage (Note D)
	Night (Note A)			Day (Note B)			
	First Class	Second Class	Third Class	First Class	Second Class	Third Class	Reserved Saloon (Note C)
15	122.00	146.00	186.00	27.00	31.00	24.00	150.00
30	139.00	164.00	203.00	53.00	61.00	47.00	150.00
45	155.00	182.00	221.00	79.00	92.00	70.00	150.00
60	172.00	200.00	238.00	105.00	122.00	93.00	150.00
75	189.00	218.00	256.00	131.00	153.00	116.00	150.00
90	205.00	236.00	273.00	157.00	183.00	139.00	168.00
120	240.00	272.00	308.00	210.00	244.00	185.00	224.00
150	275.00	307.00	343.00	262.00	305.00	231.00	280.00
180	309.00	343.00	377.00	314.00	366.00	277.00	335.00
210	344.00	379.00	412.00	366.00	427.00	323.00	391.00
240	379.00	415.00	447.00	419.00	488.00	369.00	447.00
270	413.00	451.00	482.00	471.00	549.00	415.00	503.00
300	448.00	486.00	517.00	523.00	610.00	461.00	559.00
350	506.00	546.00	575.00	610.00	712.00	538.00	651.00
400	564.00	606.00	633.00	677.00	814.00	614.00	744.00
450	621.00	665.00	691.00	783.00	915.00	691.00	837.00
500	679.00	725.00	749.00	872.00	1,017.00	768.00	930.00
550	737.00	785.00	807.00	959.00	1,118.00	844.00	1,023.00
600	795.00	844.00	865.00	1,046.00	1,220.00	921.00	1,116.00
650	853.00	904.00	933.00	1,131.00	1,322.00	998.00	1,209.00
700	910.00	973.00	981.00	1,220.00	1,423.00	1,075.00	1,302.00
800	1,026.00	1,083.00	1,097.00	1,394.00	1,627.00	1,228.00	1,488.00
900	1,141.00	1,202.00	1,213.00	1,569.00	1,830.00	1,381.00	1,674.00
1,000	1,257.00	1,321.00	1,330.00	1,743.00	2,033.00	1,535.00	1,860.00
1,100	1,373.00	1,441.00	1,446.00	1,917.00	2,236.00	1,688.00	2,046.00
1,200	1,488.00	1,560.00	1,562.00	2,091.00	2,440.00	1,842.00	2,232.00
1,300	1,604.00	1,679.00	1,678.00	2,266.00	2,643.00	1,995.00	2,418.00

NOTE A: Applicable to coaches with sleeping accommodation viz: those designated NF, NFS, DNS, NS or TC (Sleeperette).

NOTE B: Applicable to day coaches only viz: those designated FB, AFB, SC, ST or TC.

NOTE C: Applicable to Reserved Saloon coaches viz: those designated RS.

NOTE D: The charge shown in this column is only applicable when coaches are chartered to begin and/or end the loaded journey at any station other than those designated as "Coach Supply Depots" as listed hereunder. The distance on which the empty haulage charge is based is the distance from and/or to the Coach Supply Depot nearest the station at which the coach begins and/or ends the loaded journey.

Coach Supply Depots

Butterworth
Gemas

Kuala Lumpur
Singapore

Tumpat

Privatisation Options

Functional Options

Geographic Options

Sale Options

K
T
M

Passenger Company
Freight Company
Track Company
Workshop Company
Land Bank

Passenger Company
Freight Company
Track Company
(includes land and Workshops)

Passenger Company
Freight Company
Joint ownership of
track, land and
workshops

West line
(including Singapore and branch lines)
East line

West line
(including Singapore)
Branch lines
(including East coast)

Main line
(West and East including Singapore)
Branch lines
(excluding East coast)

West line
(including Singapore and branch lines)
East line

West line
(including Singapore)
Branch lines
(including East line)

Main line
(West and East including Singapore)
Branch lines
(excluding East line)

West line
(including Singapore and branch lines)
East line

West line
(including Singapore)
Branch lines
(including East line)

Main line
(West and East including Singapore)
Branch lines
(excluding East line)

West line
(including Singapore and branch lines)
East line

West line
(including Singapore)
Branch lines
(including East line)

Main line
(West and East) including Singapore
Branch lines
(excluding East line)

Retention in Public
Ownership

Public Offer
For Sale

Sales to
Private Consortium

Sale to
KTM Employees

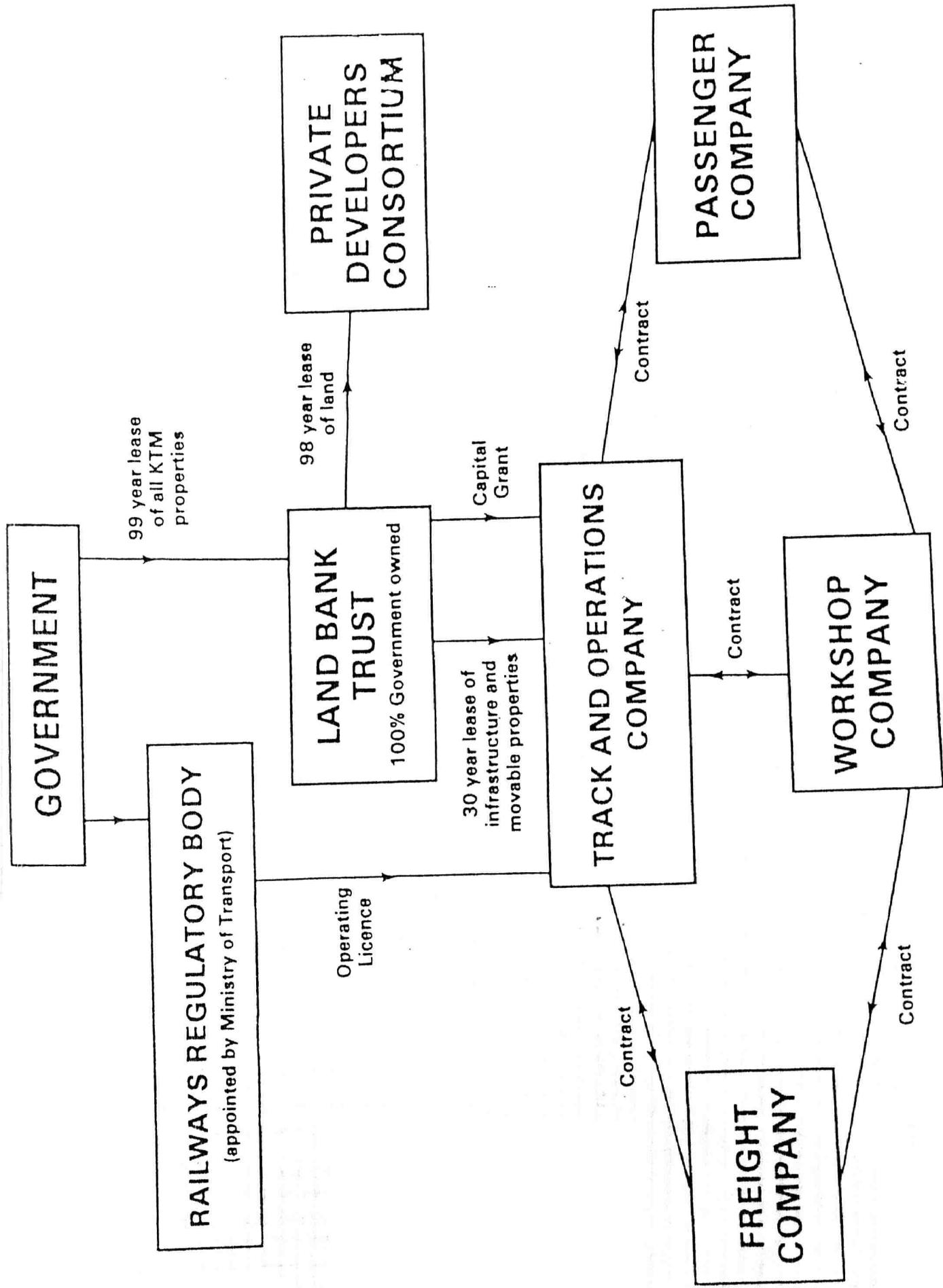
Gift to
KTM Employees

Combination of Sale to
Private Consortium and
to Public/Employees

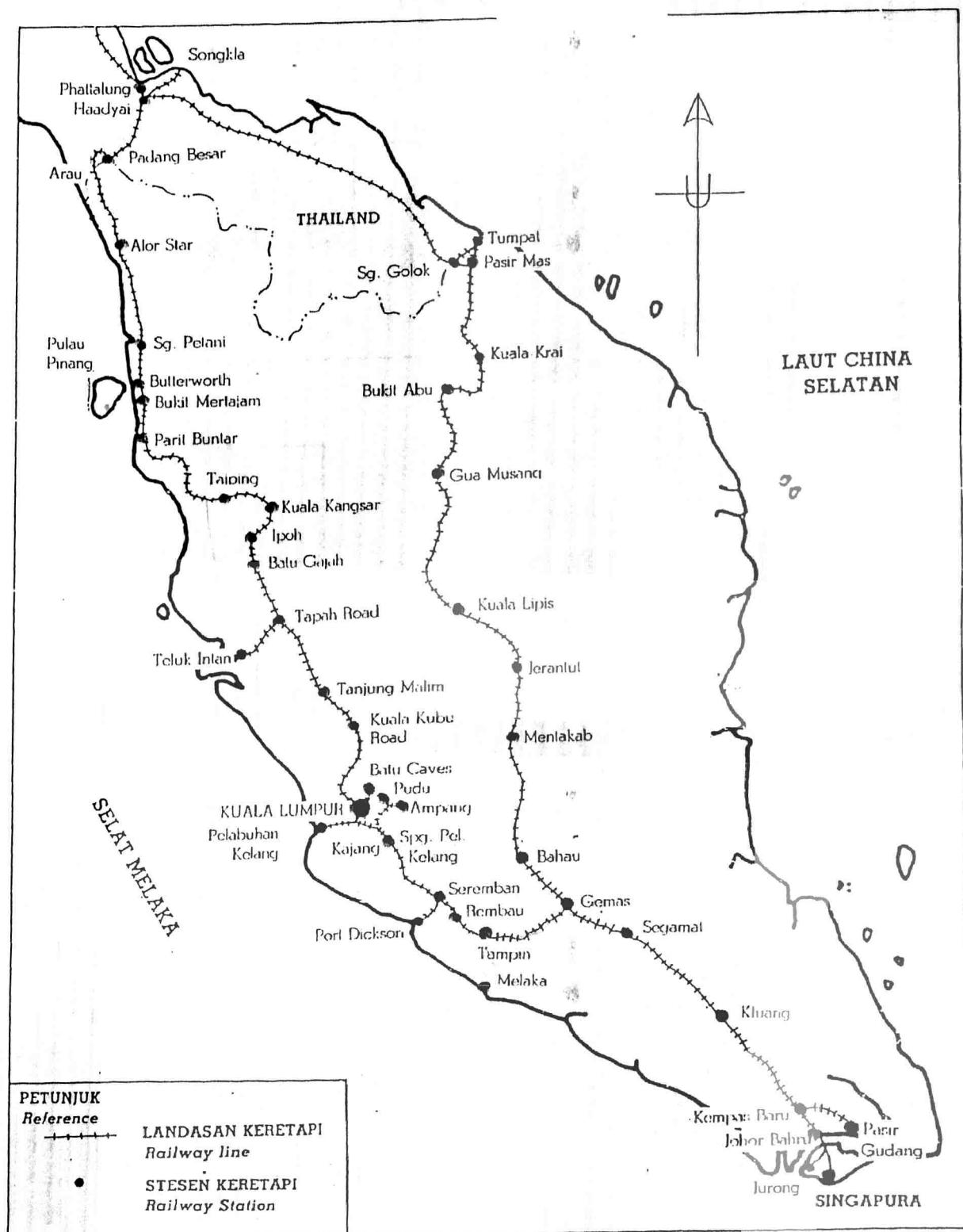
Combination of Sale
to Private Consortium
and partial Government
retention

Combination of Sale to
Public/Employees and
partial Government
retention

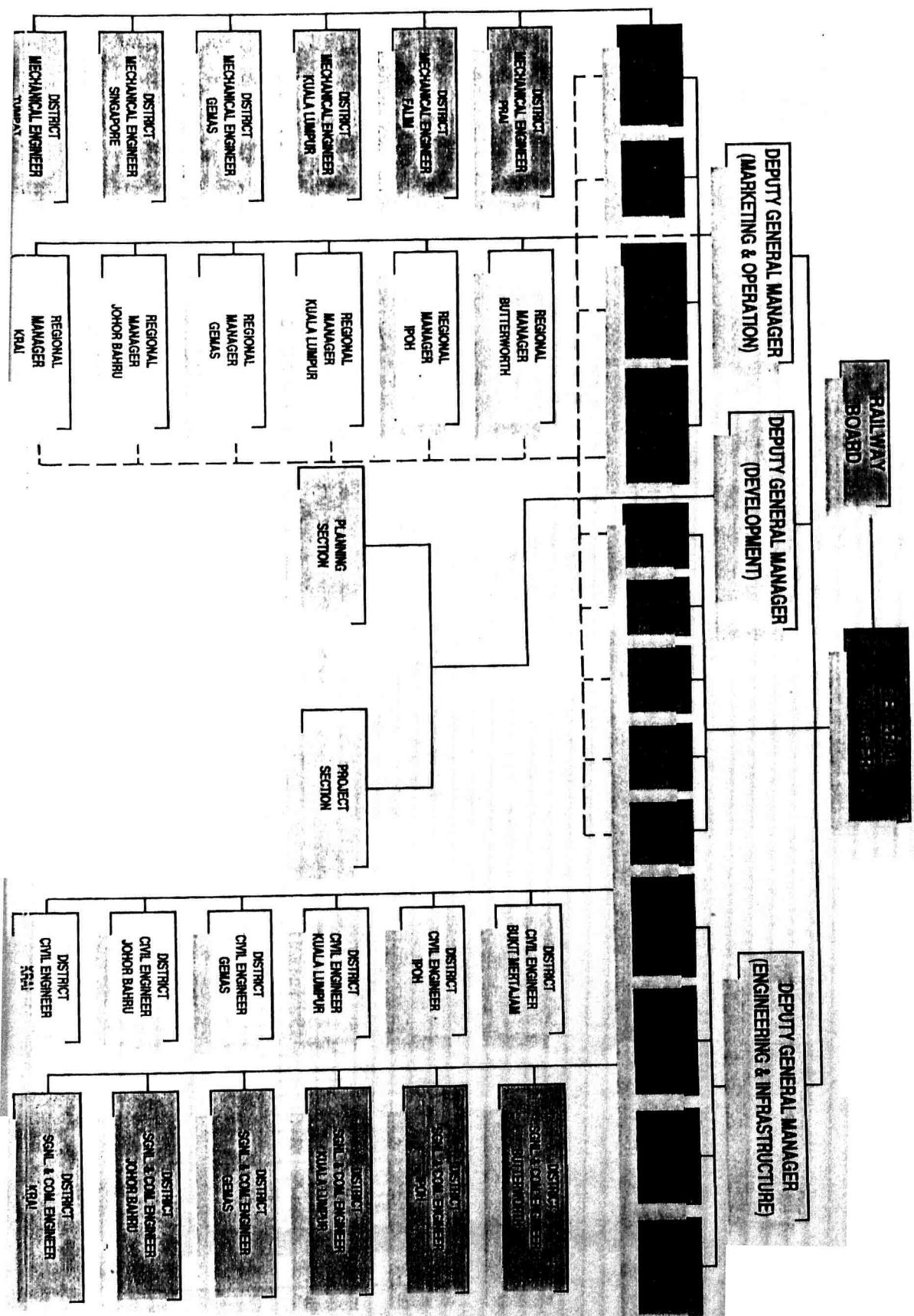
Combination of Sale to
Private Consortium,
Public/Employees and
partial Government
retention



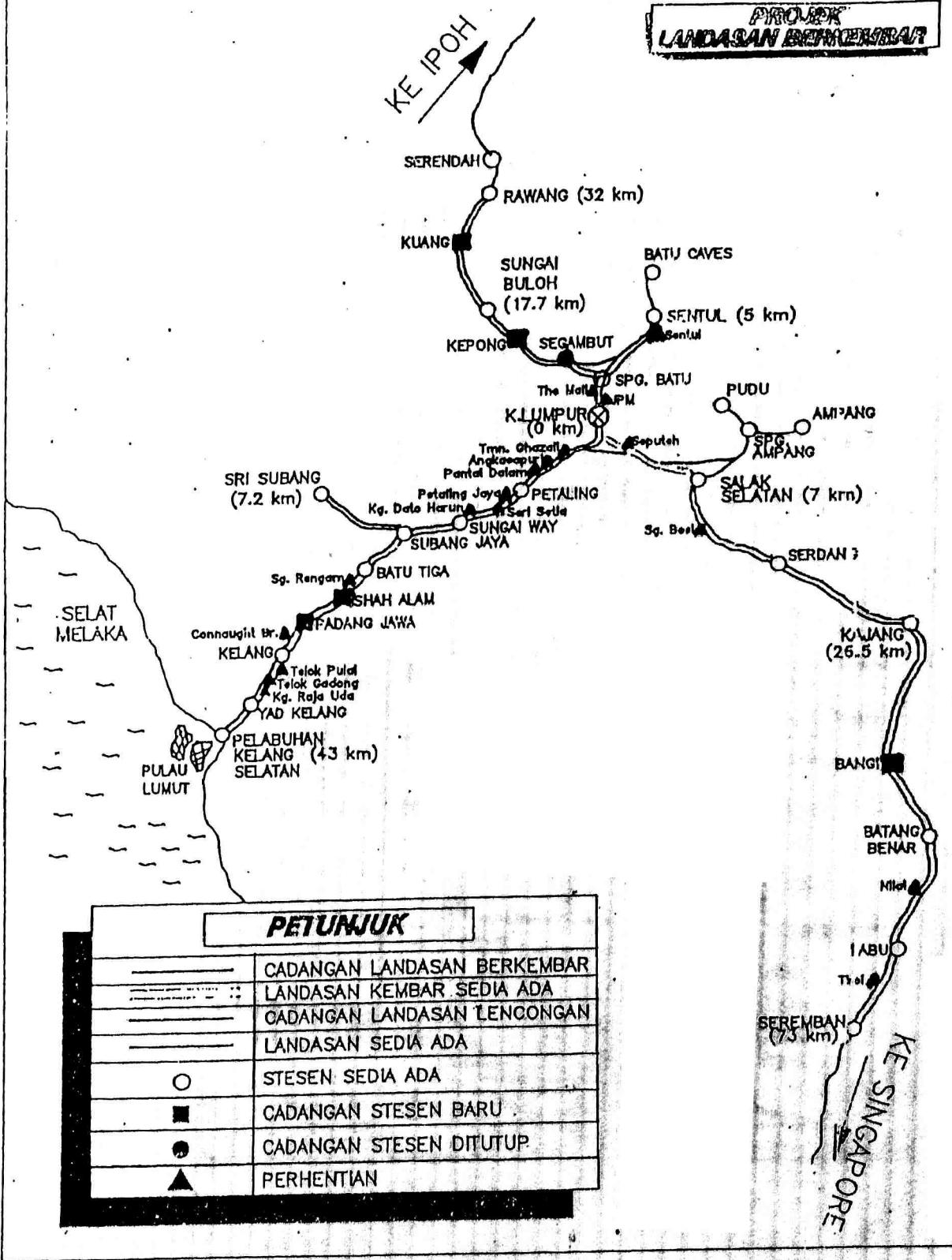
SISTEM RANGKAIAN KERETAPI TANAH MEDAYU



ORGANISATION STRUCTURE OF KTM - 1991



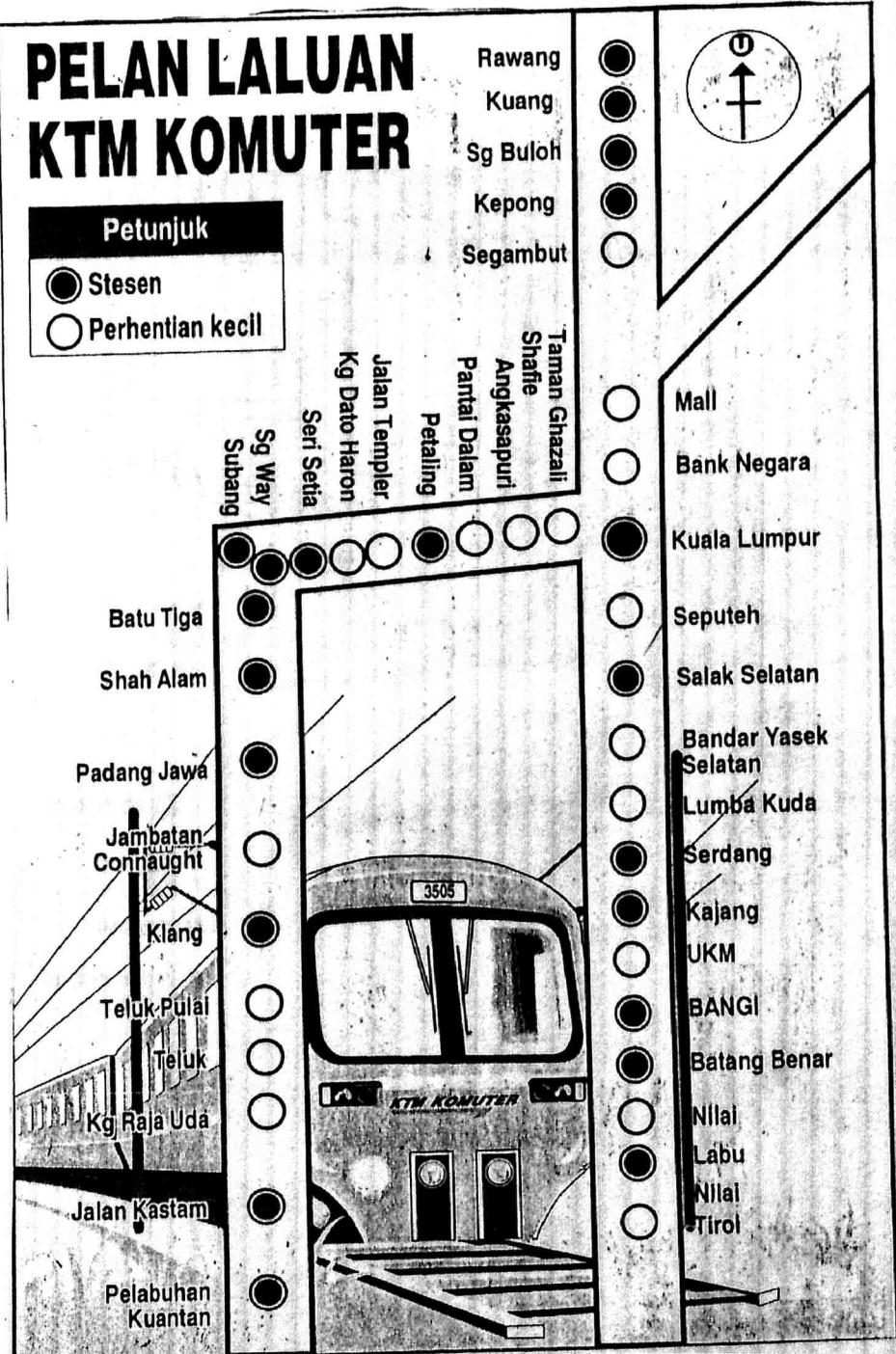
**PROJEK
LANDASAN BERKEMBAR**



PELAN LALUAN KTM KOMUTER

Petunjuk

- Stesen
- Perhentian kecil



PELAN LALUAN KERETAPI ELEKTRIK KAWASAN PERKAMPUNGAN

