

**ANNEX 2**

**ROUTING MATRIX BETWEEN  
SECONDARY CENTERS FOR REPELITA-V**



Table A-2-1 Routing Matrix between Secondary Centers (1/7)

FROM/TO	JKT(21)	BD (22)	CBN(23)	SM (24)	YK (27)	PWT(28)
JKT(21)	H, F	H, F	H, F	H, F	H, F	H, F
BD (22)	H, F	H, F	H, F/JKT/F	H, F/JKT/F	H, F	H, F/JKT/F
CBN(23)	H, F	H, F	H, F	H, F	H, F/JKT/F	H, F
SM (24)	H, F	H, F/JKT/F	N, F	H, F	H, F/JKT/F	H, F/JKT/F
YK (27)	H, F	H, F	H, F/JKT/F	H, F/JKT/F	H, F	H, F/JKT/F
PWT(28)	H, F	H, F/JKT/F	H, F/JKT/F	H, F/JKT/F	H, F/JKT/F	H, F
SB (31)	H, F	H, F/JKT/F	N, F	H, F/JKT/F	H, F/JKT/F	H, F/JKT/F
JR (33)	H, F/SB/F	H, F/SB/F	N, F/SB/F	N, F/SB/F	N, F/SB/F	N, F/SB/F
ML (34)	H, F/SB/F	H, F/JKT/F	N, F/JKT/F	H, F/JKT/F	H, F/JKT/F	N, F/JKT/F
MN (35)	H, F/SB/F	H, F/JKT/F	N, F/JKT/F	H, F/JKT/F	H, F/JKT/F	H, F/JKT/F
DPR(36)	H, F/SB/F	N, F	N, F/JKT/F	H, F/JKT/F	N, F	N, F/JKT/F
SBW(37)	H, F/SB/F	N, F/SB/F	N, F/SB/F	N, F/SB/F	N, F/SB/F	N, F/SB/F
END(38)	H, F/SB/F	N, F/JKT/F	N, F/SB/F	N, F/SB/F	N, F/SB/F	N, F/SB/F
KP (39)	H, F/SB/F	N, F/JKT/F	N, F/SB/F	N, F/SB/F	N, F/SB/F	N, F/SB/F
UP (41)	H, F	N, F/JKT/F	N, F/JKT/F	N, F	N, F/JKT/F	N, F/JKT/F
PRE(42)	H, F/UP/F	N, F/UP/F	N, F/UP/F/JKT/F	N, F/UP/F	N, F/UP/F/JKT/F	N, F/UP/F/JKT/F
MO (43)	H, F/UP/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
PAL(45)	H, F/UP/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
KOI(40)	H, F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
BJM(51)	H, F	H, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
SPT(53)	H, F/BJM/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
SMR(54)	H, F/BJM/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
TAR(55)	N, D	N, D	N, D/JKT/F	N, D	N, D	N, D/JKT/F
PTK(56)	H, F/BJM/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
MDN(61)	H, F	H, F/JKT/F	N, F/JKT/F	H, F/JKT/F	N, F/JKT/F	N, F/JKT/F
SBG(63)	H, F	N, F/MDN/F	N, F/MDN/F/JKT/F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
LSM(64)	H, F/MDN/F	N, F/MDN/F	N, F/MDN/F/JKT/F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
BNA(65)	H, F/MDN/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
PG (71)	H, F	N, F/JKT/F	N, F/JKT/F	H, F/JKT/F	N, F/JKT/F	N, F/JKT/F
TJK(72)	H, F/PG/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
LT (73)	H, F/PG/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
JB (74)	H, F/PG/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
PD (75)	H, F/PG/F	N, F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
PBR(76)	H, F/PG/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
SKN(77)	H, F/PG/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
AB (91)	H, F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F	N, F/JKT/F
TT (92)	N, F	N, D	N, D/JKT/F	N, D	N, D	N, D/JKT/F
SOM(95)	N, D	N, D	N, D/JKT/F	N, D	N, D	N, D/JKT/F
JAP(96)	N, D	N, D	N, D/JKT/F	N, D	N, D	N, D/JKT/F
MRK(97)	N, D	N, D	N, D/JKT/F	N, D	N, D	N, D/JKT/F

NOTE: ?,\$/###/\$

- <?> H: with High Usage Route
- N: with No High Usage Route
- <\$> F: Fixed Circuit Route (Terr or Preassigned SAT circuit)
- <##\$> D: Demand Assigned SAT Circuit Route
- T: Transit Exchange

Table A-2-2 Routing Matrix between Secondary Centers (2/7)

SB (31)	JR (33)	ML (34)	MN (35)	DPR(36)	SBW(37)	END(38)	KP (39)
H,F	H,F/SB/F	H,F/SB/F	H,F/SB/F	H,F/SB/F	H,F/SB/F	N,F/SB/F	H,F/SB/F
H,F/JKT/F	H,F/SB/F	H,F/SB/F	H,F/SB/F	N,F	N,F/SB/F	N,F/SB/F	H,F/SB/F
H,F/JKT/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	H,F/SB/F
H,F/JKT/F	H,F/SB/F	H,F/SB/F	H,F/SB/F	H,F/SB/F	N,F/SB/F	N,F/SB/F	H,F/SB/F
H,F/JKT/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F	N,F/SB/F	N,F/SB/F	H,F/SB/F
H,F/JKT/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	H,F/SB/F
H,F	H,F	H,F	H,F	H,F	N,F	N,F	N,F
H,F	H,F/SB/F	H,F/SB/F	N,F/SB/F	H,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F	H,F/SB/F	H,F/SB/F	H,F/SB/F	H,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F	H,F/SB/F	H,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	H,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	H,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	H,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F	N,F/SB/F	N,F/SB/F	N,F
N,F/UP/F	N,F/UP/F/SB/F	N,F/UP/F	N,F/UP/F/SB/F	N,F/UP/F	N,F/UP/F/SB/F	N,F/UP/F/SB/F	N,F/UP/F
N,F/UP/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/BJM/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F/BJM/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,D	N,D/SB/F	N,D/SB/F	N,D/SB/F	N,D	N,D	N,D	N,D
H,F/BJM/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/MDN/F	N,F/MDN/F/SB/F	N,F/MDN/F	N,F/MDN/F/SB/F	N,F/MDN/F	N,F/MDN/F/SB/F	N,F/MDN/F/SB/F	N,F/MDN/F/SB/F
N,F/MDN/F	N,F/MDN/F/SB/F	N,F/MDN/F	N,F/MDN/F/SB/F	N,F/MDN/F	N,F/MDN/F/SB/F	N,F/MDN/F/SB/F	N,F/MDN/F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
H,F/PG/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/PG/F	N,F/PG/F/SB/F	N,F/PG/F/SB/F	N,F/PG/F/SB/F	N,F/PG/F/SB/F	N,F/PG/F/SB/F	N,F/PG/F/SB/F	N,F/PG/F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/PG/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,D	N,D/SB/F	N,D/SB/F	N,D/SB/F	N,D	N,D	N,D	N,D
N,F	N,D/SB/F	N,D/SB/F	N,D/SB/F	N,D	N,D	N,D	N,D
N,D	N,D/SB/F	N,D/SB/F	N,D/SB/F	N,D	N,D	N,D	N,D
N,D	N,D/SB/F	N,D/SB/F	N,D/SB/F	N,D	N,D	N,D	N,D

Table A-2-3 Routing Matrix between Secondary Centers (3/7)

UP (41)	PRE(42)	MO (43)	PAL(45)	KDI(40)
N,F	H,F/UP/F	H,F/UP/F	H,F/UP/F	N,F
N,F/KT/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F/KT/F	N,F/KT/F	N,F/KT/F	N,F/KT/F	N,F/KT/F
N,F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F/KT/F	N,F/KT/F	N,F/KT/F	N,F/UP/F	N,F/UP/F
N,F/KT/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
H,F	N,F/UP/F	N,F	N,F	N,F
N,F/SB/F	N,F/SB/F/UP/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/SB/F	N,F/SB/F/UP/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/SB/F	N,F/SB/F/UP/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/UP/F	N,F/SB/F	N,F/UP/F	N,F/UP/F
N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/UP/F	N,F/UP/F
N,F/SB/F	N,F/SB/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F/SB/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F	N,F	H,F	N,F	N,F
N,F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F/B/M/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F	N,F/UP/F	N,F	N,F	N,F/UP/F
N,F/B/M/F	N,F/UP/F	N,F/UP/E	N,F/UP/F	N,F/UP/F
N,F	N,F/UP/F	N,F	N,F/UP/F	N,F/UP/F
N,F/MDN/F	N,F/MDN/F/UP/F	N,F/MDN/F	N,F/MDN/F/UP/F	N,F/MDN/F/UP/F
N,F/MDN/F	N,F/MDN/F/UP/F	N,F/MDN/F	N,F/MDN/F/UP/F	N,F/MDN/F/UP/F
N,F/MDN/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F/PG/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F/PG/F	N,F/PG/F/UP/F	N,F/PG/F/UP/F	N,F/PG/F/UP/F	N,F/PG/F/UP/F
N,F/PG/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F/PG/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F/PG/F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,F	N,F/UP/F	N,F/UP/F	N,F/UP/F	N,F/UP/F
N,D	N,D/UP/F	N,F	N,D	N,D
N,D	N,D/UP/F	N,D	N,D	N,D
N,D	N,D/UP/F	N,D	N,D	N,D
N,D	N,D/UP/F	N,D	N,D	N,D

Table A-2-4 Routing Matrix between Secondary Centers (4/7)

BJM(51)	SPT(53)	SMR(54)	TAR(55)	PTK(56)
H,F	H,F/BJM/F	H,F/BJM/F	N,D	H,F/BJM/F
H,F/JKT/F	N,F/BJM/F	N,F/JKT/F	N,D	N,F/BJM/F
N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/D	N,F/JKT/F
N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,D	N,F/JKT/F
N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,D	N,F/JKT/F
N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,D	N,F/JKT/F
N,F	N,F/BJM/F	N,F	N,D	N,F/BJM/F
N,F/SB/F	N,F/SB/F/BJM/F	N,F/SB/F	N,F/SB/D	N,F/SB/F
N,F/SB/F	N,F/SB/F/BJM/F	N,F/SB/F	N,F/SB/D	N,F/SB/F
N,F/SB/F	N,F/SB/F/BJM/F	N,F/SB/F	N,F/SB/D	N,F/SB/F
N,F	N,F/BJM/F	N,F/SB/F	N,D	N,F/SB/F
N,F/SB/F	N,F/BJM/F	N,F/SB/F	N,D	N,F/SB/F
N,F/SB/F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F/SB/F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F	N,F/BJM/F	N,F	N,D	N,F/BJM/F
N,F/UP/F	N,F/UP/F/BJM/F	N,F/UP/F	N,F/UP/D	N,F/UP/F/BJM/F
N,F/UP/F	N,F/BJM/F	N,F	N,D	N,F/BJM/F
N,F/UP/F	N,F/BJM/F	N,F	N,D	N,F/BJM/F
N,F/UP/F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F	N,F	N,F	N,D	N,F
N,F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,D	N,D	N,D	N,D	N,D
N,F	N,F/BJM/F	N,F/BJM/F	N,D	N,F
N,F	N,F/BJM/F	N,F	N,D	N,F
N,F/MDN/F	N,F/MDN/F/BJM/F	N,F/MDN/F	N,F/MDN/D	N,F/MDN/F
N,F/MDN/F	N,F/MDN/F/BJM/F	N,F/MDN/F	N,F/MDN/D	N,F/MDN/F
N,F/MDN/F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F/PG/F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F/PG/F	N,F/PG/F/BJM/F	N,F/PG/F/BJM/F	N,F/PG/D	N,F/PG/F/BJM/F
N,F/PG/F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F/PG/F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F/PG/F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,F	N,F/BJM/F	N,F/BJM/F	N,D	N,F/BJM/F
N,D	N,D	N,D	N,D	N,D
N,D	N,D	N,D	N,D	N,D
N,D	N,D	N,D	N,D	N,D
N,D	N,D	N,D	N,D	N,D

Table A-2-5 Routing Matrix between Secondary Centers (5/7)

MDN(61)	SBG(63)	LSM(64)	BNA(65)
H, F	H, F	H, F/MDN/F	H, F/MDN/F
H, F/KT/F	N, F/MDN/F	N, F/MDN/F	H, F/MDN/F
N, F/KT/F	N, F/KT/F	N, F/KT/F	N, F/KT/F
H, F/KT/F	N, F/KT/F	N, F/KT/F	N, F/KT/F
N, F/KT/F	N, F/KT/F	N, F/KT/F	N, F/KT/F
H, F	N, F/MDN/F	N, F/MDN/F	N, F
N, F/SB/F	N, F/SB/F/MDN/F	N, F/SB/F/MDN/F	N, F/SB/F
N, F/SB/F	N, F/SB/F/MDN/F	N, F/SB/F/MDN/F	N, F/SB/F
N, F/SB/F	N, F/SB/F/MDN/F	N, F/SB/F/MDN/F	N, F/SB/F
N, F/SB/F	N, F/SB/F/MDN/F	N, F/SB/F/MDN/F	N, F/SB/F
N, F/SB/F	N, F/SB/F/MDN/F	N, F/SB/F/MDN/F	N, F/MDN/F
N, F/SB/F	N, F/SB/F/MDN/F	N, F/SB/F/MDN/F	N, F/MDN/F
N, F/UP/F	N, F/UP/F/MDN/F	N, F/UP/F/MDN/F	N, F/UP/F/MDN/F
H, F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F/UP/F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F/UP/F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F/BJM/F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, D	N, D/MDN/F	N, D/MDN/F	N, D
N, F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F	N, F	H, F	H, F
N, F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
H, F	N, F/MDN/F	N, F	N, F
H, F	N, F/MDN/F	N, F	N, F
H, F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F/PG/F	N, F/PG/F/MDN/F	N, F/PG/F/MDN/F	N, F/PG/F/MDN/F
N, F/PG/F	N, F/PG/F/MDN/F	N, F/PG/F/MDN/F	N, F/PG/F/MDN/F
H, F/PG/F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F/PG/F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, F	N, F/MDN/F	N, F/MDN/F	N, F/MDN/F
N, D	N, D/MDN/F	N, D/MDN/F	N, D
N, D	N, D/MDN/F	N, D/MDN/F	N, D
N, D	N, D/MDN/F	N, D/MDN/F	N, D
N, D	N, D/MDN/F	N, D/MDN/F	N, D

Table A-2-6 Routing Matrix between Secondary Centers (6/7)

PG (71)	TJK(72)	LT (73)	JB (74)	PD (75)	PBR(76)	SKN(77)
H,F	H,F/PG/F	H,F/PG/F	H,F/PG/F	H,F/PG/F	H,F/PG/F	H,F/PG/F
H,F/JKT/F	H,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/JKT/F
N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F
H,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F
N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F	N,F/JKT/F
N,F	H,F/PG/F	N,F/PG/F	N,F	N,F/PG/F	N,F	N,F
N,F/SB/F	N,F/SB/F	N,F/SB/F/PG/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/SB/F	N,F/SB/F	N,F/SB/F/PG/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/SB/F	N,F/SB/F	N,F/SB/F/PG/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/SB/F	N,F/SB/F	N,F/SB/F/PG/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/SB/F	N,F/SB/F	N,F/SB/F/PG/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F/SB/F	N,F/SB/F	N,F/SB/F/PG/F	N,F/SB/F	N,F/SB/F	N,F/SB/F	N,F/SB/F
N,F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F
N,F/UP/F	N,F/UP/F/PG/F	N,F/UP/F/PG/F	N,F/UP/F/PG/F	N,F/UP/F/PG/F	N,F/UP/F/PG/F	N,F/UP/F/PG/F
N,F/UP/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F
N,F/UP/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F
N,F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F
N,F/BJM/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F
N,F/BJM/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F
N,D	N,D	N,D/PG/F	N,D	N,D	N,D	N,D
N,F/BJM/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F
H,F	N,F/PG/F	N,F/PG/F	H,F/PG/F	H,F/PG/F	N,F/PG/F	N,F
N,F/MDN/F	N,F/MDN/F/PG/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F
N,F/MDN/F	N,F/MDN/F/PG/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F
N,F/MDN/F	N,F/MDN/F/PG/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F	N,F/MDN/F
H,F	H,F	N,F	H,F	H,F	N,F	N,F
H,F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F/PG/F
H,F	N,F/PG/F	N,F/PG/F	N,F	N,F	N,F/PG/F	N,F/PG/F
H,F	N,F/PG/F	N,F/PG/F	N,F	N,F	N,F	N,F
N,F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F	N,F	N,F
N,F	N,F/PG/F	N,F/PG/F	N,F/PG/F	N,F	N,F	N,F
N,D	N,D	N,D/PG/F	N,D	N,D	N,D	N,D
N,D	N,D	N,D/PG/F	N,D	N,D	N,D	N,D
N,D	N,D	N,D/PG/F	N,D	N,D	N,D	N,D
N,D	N,D	N,D/PG/F	N,D	N,D	N,D	N,D



Table A-2-7 Routing Matrix between Secondary Centers (7/7)

AB (91)	TT (92)	SON(95)	JAP(96)	MRK(97)
H, F	N, F	N, D	N, F	N, D
N, F/JKT/F	N, D	N, D	N, D	N, D
N, F/JKT/F	N, F/JKT/D	N, F/JKT/D	N, F/JKT/D	N, F/JKT/D
N, F/JKT/F	N, D	N, D	N, D	N, D
N, F/JKT/F	N, D	N, D	N, D	N, D
N, F/JKT/F	N, F/JKT/D	N, F/JKT/D	N, F/JKT/D	N, F/JKT/D
N, F	N, D	N, D	N, F	N, D
N, F/SB/F	N, F/SB/D	N, F/SB/D	N, F/SB/D	N, F/SB/D
N, F/SB/F	N, F/SB/D	N, F/SB/D	N, F/SB/D	N, F/SB/D
N, F/SB/F	N, F/SB/D	N, F/SB/D	N, F/SB/D	N, F/SB/D
N, F/SB/F	N, D	N, D	N, D	N, D
N, F/SB/F	N, D	N, D	N, D	N, D
N, F/SB/F	N, D	N, D	N, D	N, D
N, F	N, D	N, D	N, D	N, D
N, F/UP/F	N, F/UP/D	N, F/UP/D	N, F/UP/D	N, F/UP/D
N, F/UP/F	N, F	N, D	N, D	N, D
N, F/UP/F	N, D	N, D	N, D	N, D
N, F/UP/F	N, D	N, D	N, D	N, D
N, F	N, D	N, D	N, D	N, D
N, F/BJM/F	N, D	N, D	N, D	N, D
N, F/BJM/F	N, D	N, D	N, D	N, D
N, D	N, D	N, D	N, D	N, D
N, F/BJM/F	N, D	N, D	N, D	N, D
N, F	N, D	N, D	N, D	N, D
N, F/MDN/F	N, F/MDN/D	N, F/MDN/D	N, F/MDN/D	N, F/MDN/D
N, F/MDN/F	N, F/MDN/D	N, F/MDN/D	N, F/MDN/D	N, F/MDN/D
N, F/MDN/F	N, D	N, D	N, D	N, D
N, F	N, D	N, D	N, D	N, D
N, F/PG/F	N, D	N, D	N, D	N, D
N, F/PG/F	N, F/PG/D	N, F/PG/D	N, F/PG/D	N, F/PG/D
N, F/PG/F	N, D	N, D	N, D	N, D
N, F/PG/F	N, D	N, D	N, D	N, D
N, F/PG/F	N, D	N, D	N, D	N, D
N, F/PG/F	N, D	N, D	N, D	N, D
N, D	N, D	N, D	N, D	N, D
N, D	N, D	N, D	N, D	N, D
N, D	N, D	N, D	N, D	N, D
N, D	N, D	N, D	N, D	N, D



**ANNEX 3**

**TOLL CIRCUITS BETWEEN SC AND PC  
FOR REPELITA-V**



Table A-3-1 Required Number of Trunk Circuit Between  
SC and PC for REPELITA-V (1/7)

( ):WITEL

Secondary Area		Primary Area		Number Of	Volume of	Number of
Code	Trunk Center	Code	Trunk Center	Subscribers (TER + PA)	Traffic	Circuits
21	JAKARTA	21	JAKARTA			
25	(IV)					
	(V)	251	Bogor	25,250	148.697	168
		2	RangkaSbitung	2,090	12.308	21
		3	Pandeglang	1,060	6.242	13
		4	Serang	6,530	38.455	51
		5	Cipanas	1,840	10.836	19
		6	Karawang	4,400	25.912	37
22	BANDUNG	22	BANDUNG			
26	(V)	261	Sumedang	3,240	31.632	43
		2	Garut	6,630	64.729	80
		3	Cianjur	6,620	64.631	80
		4	Purwakarta	5,200	50.768	65
		5	Tasikmalaya	19,200	187.450	208
		6	Sukabumi	11,610	113.348	131
23	CIREBON	231	CIREBON			
	(V)	2	Kuningan	1,480	25.050	36
		3	Majalengka	2,000	33.852	46
		4	Indramayu	1,580	26.743	38
24	SEMARANG	24	SEMARANG			
	(VI)	291	Kudus	9,170	109.196	127
		2	Purwodadi	1,200	14.290	23
		3	Magelang	9,900	117.889	136
		4	Kendal	4,250	50.609	65
		5	Pati	4,470	53.229	67
		6	Cepu	3,850	45.846	59
		7	Karimunjawa			
		8	Salatiga	2,040	24.292	35
27	YOGYAKARTA	271	Solo	29,600	308.994	333
	(VI)	2	Klaten	4,400	45.932	59
		3	Wonogiri	1,100	11.483	20
		4	YOGYAKARTA			
		5	Purworejo	2,250	23.488	34
28	PURWOKERTO	281	PURWOKERTO			
	(VI)	2	Cilacap	5,850	87.610	104
		3	Tegal	14,700	220.147	242
		4	Pemalang	2,260	33.846	46
		5	Pekalongan	11,590	173.572	194
		6	Wonosobo	2,000	29.952	42
		7	Kebumen	3,100	46.426	60

NOTE TER:Terrestrial link.  
PA:Preassignment.

Table A-3-2 Required Number of Trunk Circuit Between SC and PC for REPELITA-V (2/7)

(1) WITEL

Secondary Area		Primary Area		Number of Subscribers (TER + PA)	Volume of Traffic	Number of Circuits
Code	Trunk Center	Code	Trunk Center			
31	SURABAYA	31	SURABAYA			
32	(VII)	321	Mojokerto	10.700	72.888	89
		2	Lasongan	1.195	8.140	16
		3	Bangkalan	2.650	18.052	28
		4	Pamekasan	3.000	20.436	31
		5	Sankapurna (Bavean)			
		6	Gayam (Sapudi)			
		7	Pabean (Kansean)			
33	JEMBER	331	JEMBER			
	(VII)	2	Bondowoso	3.200	52.832	67
		3	Banyuwangi	6.130	101.206	119
		4	Lumajang	2.050	33.846	46
		5	Probolinggo	8.090	133.566	153
		6	Situbondo	2.320	38.303	51
34	MALANG	341	MALANG			
	(VII)	2	Blitar	6.480	92.832	110
		3	Pasuruan	6.460	92.546	109
35	MADIUN	351	MADIUN			
	(VII)	2	Ponoroso	2.000	39.910	53
		3	Bojonegoro	3.190	63.656	79
		4	Kediri	9.940	198.353	220
		5	Tulungagung	3.250	64.854	80
		6	Tuban	1.400	27.937	39
		7	Pacitan			
36	DENPASAR	361	DENPASAR			
	(VIII)	2	Singaraja	3.260	35.133	47
		3	Artaapura	3.400	36.642	49
		4	Mataran	12.250	132.018	151
		5	Negara	600	6.466	13
37	SUMBANA BESAR	371	SUMBANA BESAR			
	(VIII)	2	Talivang	400	10.000	18
		3	Donpu	1.000	24.999	36
		4	Raba	4.250	106.246	124
38	ENDE	381	ENDE			
	(VIII)	2	Maumere	1.000	23.738	34
		3	Larantuka	600	14.243	23
		4	Banjawa	400	9.495	17
		5	Ruteng	1.100	26.112	37
		6	Weingapu	400	9.495	17
		7	Waikabubak	400	9.495	17
39	KUPANG	391	KUPANG			
	(VIII)	2	Soe	630	6.478	13
		3	Kefamenanu	230	2.365	7
		4	Atambua	800	8.226	16
		5	Baa	200	2.057	7
		6	Seba			
		7	Kalabahi	600	6.170	13
		8	Ilvakia	200	2.057	7
		9	Baukau	800	8.226	16
		0	Dilli	11.400	117.226	135

NOTE TER: Terrestrial Link.  
PA: Preassignment.

Table A-3-3 Required Number of Trunk Circuit Between  
SC and PC for REPELITA-V (3/7)

( ):WITEL

Secondary Area		Primary Area		Number Of	Volume of	Number of
Code	Trunk Center	Code	Trunk Center	Subscribers	Traffic	Circuits
				(TER + PA)		
41	UJUNG PANDANG (X)	411	UJUNG PANDANG			
		2	Watampone	1,050	9.473	17
		3	Bantaeng	1,400	12.631	21
		4	Benteng	400	3.609	9
		5	Tanahjampea	0		
42	PARE-PARE (X)	421	PARE-PARE			
		2	Majene	1,200	27.019	38
		3	Rantepao			
		4	Palopo	1,000	22.516	33
		5	Sinkang	600	13.510	22
		6	Mamuju	400	9.006	17
		7	Masamba			
		8	Matili			
		9	Karosa			
43	MANADO (X)	431	MANADO			
		2	Tahuna			
		3	Beo			
		4	Kotamobagu	1,000	10.205	18
		5	Gorontalo	11,400	116.337	135
		6	Tilamuta			
		7	Pateleh			
		8	Bitung	3,050	31.125	43
45	PALU (X)	451	PALU			
		2	Poso	896	17.286	27
		3	Toli-Toli	1,200	23.150	34
		4	Ampana			
		5	Kolondale			
		6	Bungku			
		7	Katupa			
		8	Luwuk	1,000	19.292	29
		9	Banggai	200	3.858	10
40	KENDARI (X)	401	KENDARI			
		2	Baubau			
		3	Raha(s)			
		4	Papalia			
		5	Kolaka	600	14.391	23
		6	Matamata			
		7	Waveheo			

NOTE TER:Terrestrial Link.  
PA:Preassignment.

Table A-3-4 Required Number of Trunk Circuit Between  
SC and PC for REPELITA-V (4/7)

( ):WITEL

Secondary Area	Primary Area	Number Of	Volume of	Number of		
Code	Trunk Center	Code	Trunk Center	Subscribers		
				(TER + PA)		
				Traffic		
				Circuits		
51	BANJARMASIN (IX)	511	BANJARMASIN			
		2	Pleihari	200	2.392	7
		3	Kualakapuas	1.000	11.960	20
		4	Palangkaraya	2.000	23.920	35
		5	Buntok			
		6	Tanjung	800	9.568	17
		7	Kandangan	1.800	21.528	32
		8	Kotabaru			
		9	Muarateveh			
53	SAMPIT (IX)	531	SAMPIT			
		2	Pangkalanbuun	2.000	76.258	92
		3	Manggatayap			
		4	Ketapang	600	22.877	33
		5	Sukadana-	200	7.626	15
			Kalimantan			
		6	Senamang			
		7	Kualakurun			
		8	Purukcau			
54	SAMARINDA (IX)	541	SAMARINDA			
		2	Balikpapan	17.500	203.840	225
		3	Tanahrogot	600	6.989	14
		4	Muarasiram			
		5	Longiram			
		6	Tabang			
		7	Sangkalirang			
		8	Bontang	2.000	23.296	34
55	TARAKAN (IX)	551	TARAKAN			
		2	Tajungselor			
		3	Malinau			
		4	Tanjungredor			
		5	Longgawang			
56	PONTIANAK (IX)	561	PONTIANAK			
		2	Singkawang	1.000	17.004	27
		3	Ngabang			
		4	Sanggau			
		5	Sintang			
		6	Semitau			
		7	Putusibau			
		8	Nangapinoh			
		9	P.Kar imata			

NOTE TER:Terrestrial link.  
PA:Preassignment.



Table A-3-5 Required Number of Trunk Circuit Between SC and PC for REPELITA-V (5/7)

( ):WITEL

Secondary Area		Primary Area		Number Of	Volume of	Number of
Code	Trunk Center	Code	Trunk Center	Subscribers (TER + PA)	Traffic	Circuits
61	MEDAN	61	MEDAN			
62	(I)	621	Tebingtinggi	3.100	20.755	31
		2	Pematang-Siantar	15.850	106.116	124
		3	Kisaran	4.460	29.860	41
		4	Rantauprapat	4.200	28.119	39
		6	Pangururan	400	2.678	8
		7	Sidikalang	800	5.356	12
		8	Kabanjahe	1.800	12.051	21
		9	Kutacane	0		
		0	Pangkalan-brandan	5.650	37.827	50
63	SIBOLGA (I)	631	SIBOLGA			
		2	Balige	700	16.198	26
		3	Tarutung	600	13.884	23
		4	Padang-sidempuan	2.250	52.065	66
		5	Gunungtua	200	4.628	11
		6	Penyabungan	750	17.355	27
		7	Natal			
		8	Telo			
		9	Gunungsitoli			
64	LHOKSEUMAWA (I)	641	Langsa	3.300	56.414	71
		2	Blangkejeren			
		3	Takengon			
		4	Bireuen	2.860	48.892	63
		5	LHOKSEUMAWA			
		6	Idi	800	13.676	23
65	BANDA ACEH (I)	651	BANDA ACEH			
		2	Sabang	3.400	46.852	60
		3	Sigli	1.900	26.182	37
		4	Calang	100	1.378	6
		5	Meulaboh			
		6	Tapaktuan			
		7	Bakungan			
		8	Singkil			
		9	Kep.Banyak			
		0	Sinapang			

NOTE TER:Terrestrial link.  
PA:Preassignment.

Table A-3-6 Required Number of Trunk Circuit Between SC and PC for REPELITA-V (6/7)

( :WITEL

Secondary Area	Primary Area	Number Of	Volume of	Number of
Code	Code	Subscribers	Traffic	Circuits
Trunk Center	Trunk Center	(TER + PA)		
71 PALEMBANG (III)	711 PALEMBANG			
	2 Kayugung	600	10.647	19
	3 Prabumulih	600	10.647	19
	4 Sekayu			
	6 Muntok			
	7 Pangkalpinang	3.600	63.882	79
	8 Koba			
	9 Tanjungpandan			
72 TANJUNGPINANG (III)	721 TANJUNGPINANG			
	2 Kotaagung	1.200	22.136	33
	3 Krue			
	4 Kotabesi	1.000	18.447	28
	5 Metro	3.400	62.720	78
	6 Mengsala			
73 LAHAT (III)	731 LAHAT			
	2 Curup	1.000	19.396	29
	3 Lubuklinggau	3.000	58.188	73
	4 Muaraenim	1.800	34.915	47
	5 Baturaja	2.200	42.671	56
	6 Bengkulu	7.200	139.651	159
	7 Muaraawan			
	8 Surulangun	400	7.758	15
	9 Hanna			
	0 Barbau			
74 JANGHI (III)	741 JANGHI			
	2 Kualatungkal			
	3 Muarabulan	400	9.344	17
	4 Maratobo	0		
	5 Sarolangun	200	4.672	11
	6 Bangko	1.200	28.033	39
	7 Muarabungo	600	14.017	23
	8 Sungaienuh			
75 PADANG (III)	751 PADANG			
	2 Bukit Inggil	7.840	102.837	120
	3 Lubukikaping	480	6.296	13
	4 Sijunjung	1.800	23.611	34
	5 Solok	2.000	26.234	37
	6 Painan			
	7 Tapan			
	8 Matoke			
	9 Muarasiberut			
76 PEKANBARU (II)	761 PEKANBARU			
	2 Bangkinang	400	5.699	12
	3 Pasirpan-			
	ngarayan			
	4 Siak Sri	200	2.850	8
	Indrapura			
	5 Dumai	2.600	37.045	50
	6 Bengkalis			
	7 Basan	40	0.570	4
	Stapi-aji			
	8 Tesbitahan			
	9 Rengat			
	0 Tetukkuantan			
77 SEKUPANG (II)	771 Tanjungpinang	3.000	60.840	76
	2 Terespa			
	3 Ranai			
	4 Matuna-			
	Selatan			
	5 P. Tambelan			
	6 Dabosingkep			
	7 Tanjungbatai-	856	17.360	27
	Karimun			
	8 SEKUPANG			
	9 Tanjung Batu			
	0 Selat Panjang	600	12.168	21

NOTE TER:Terrestrial Link.  
PA:Preassignment.

Table A-3-7 Required Number of Trunk Circuit Between  
SC and PC for REPELITA-V (7/7)

( ):WITEL

Secondary Area		Primary Area		Number Of	Volume of	Number of
Code	Trunk Center	Code	Trunk Center	Subscribers (TER + PA)	Traffic	Circuits
91	AMBON (XI)	911	AMBON			
		2	Piru			
		3	Namlea			
		4	Masohi	1.800	25.927	37
		5	Bula			
		6	Tual			
		7	Dobo			
		8	Saumlaki			
		9	Tepa			
		0	Bandaneira			
92	TERNATE (XI)	921	TERNATE			
		2	Jailolo			
		3	Pitu			
		4	Tobelo			
		5	Weda			
		6	Umera			
		7	Labuha			
		8	Laiwui			
		9	Sanana			
95	SORONG (XII)	951	SORONG			
		2	Samate			
		3	Fagita			
		4	Inavatan			
		5	Babo			
		6	Fakfak			
		7	Kaimana			
96	JAYAPURA (XII)	961	Biak	1.000	15.392	25
		2	Manokwari	1.000	15.392	25
		3	Serui			
		4	Nabire			
		5	Waren			
		6	Sarmi			
		7	JAYAPURA			
		8	Beoga			
		9	Wamena			
		0	Kive			
97	MERAUKE (XII)	971	MERAUKE			
		2	Okaba			
		3	Kimaan			
		4	Koba			
		5	Tanah Merah			
		6	Aqats			
		8	Waropko			
		9	Timuka			

NOTE TER:Terrestrial link.  
PA:Preassignment.



**ANNEX 4**

**TOLL CIRCUITS DISTRIBUTION FOR  
REPELITA-V**



#### ANNEX 4 TOLL CIRCUITS DISTRIBUTION FOR REPELITA-V

The table shows the results of distributing the toll circuits between the terrestrial system and the satellite system by using the distribution curve. The following is an explanation of the terms used.

O-EXC : Originating SC name

T-EXC : Terminating SC name

CCT-TERR : The number of circuits in the terrestrial system

CCT-MOD : The required number of circuits for both telephone and non-telephone services

LENGTH : Terrestrial transmission route distance (km)

RATIO : The distribution ratio of the terrestrial system

CCT-SAT : The number of distributed circuits to the satellite system

EXT-FDM : The existing FDMA capacity size

EXT-TDM : The existing TDMA capacity size

EXT-TTL : The existing number of circuits for the satellite system (Usage efficiency rate: 80%)

SAT-TTL : The number of circuits for the satellite system at the end of REPELITA-V

CCT-TDMA : The number of TDMA circuits at the end of REPELITA-V

TDMA : The TDMA capacity size at the end of REPELITA-V

X'der : The required number of transponders

Table A-4-1 Toll Circuits Distribution for REPELITA-V (1/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
JKT	BD	1495	1661	130	0.9	166		0	0	166	166	180
JKT	CBN	426	426	310	1	0		0	0	0	0	0
JKT	SM	648	720	490	0.9	72	24	0	19	72	53	60
JKT	YK	483	521	630	0.9	52	48	0	38	38	0	0
JKT	PWT	533	533	340	1	0		0	0	0	0	0
JKT	SB	716	889	810	0.845	138	216	0	173	173	0	0
JKT	JR	166	166	1040	1	0		0	0	0	0	0
JKT	ML	119	119	900	1	0		0	0	0	0	0
JKT	MN	180	180	690	1	0		0	0	0	0	0
JKT	DPR	109	186	1270	0.615	72	96	0	77	77	0	0
JKT	SBW	53	53	1570	1	0		0	0	0	0	0
JKT	END	70	70	2070	1	0		0	0	0	0	0
JKT	KP	5	101	2670	0.1	91		120	96	96	96	120
JKT	UP	0	313	2070	0.215	246	192	360	442	313	159	180
JKT	PRE	63	63	2270	1	0		0	0	0	0	0
JKT	MO	9	211	3480	0.1	190	72	180	202	202	144	180
JKT	PAL	8	76	2790	0.1	68		60	48	68	68	120
JKT	KOI	1	49	2820	1	0		60	48	48	48	60
JKT	BJM	117	242	1340	0.58	102	96	60	125	125	48	60
JKT	SPT	42	101	1670	0.415	59		60	48	59	59	60
JKT	SMR	0	206	1920	0.29	146	144	240	307	206	91	120
JKT	TAR	0	0	0	0	0		0	0	0	0	0
JKT	PTK	0	176	2270	0.115	156	120	180	240	176	80	120
JKT	MDN	364	846	1640	0.43	482	216	60	221	482	309	360
JKT	SBG	23	23	1470	1	0		0	0	0	0	0
JKT	LSM	75	75	1920	1	0		0	0	0	0	0
JKT	BNA	0	100	2120	0.19	81	144	0	115	100	0	0
JKT	PG	523	581	610	0.9	58	24	0	19	58	39	60
JKT	TJK	288	288	210	0.9	29		0	0	0	0	0
JKT	LT	201	201	500	1	0		0	0	0	0	0
JKT	JB	156	191	870	0.815	35		0	0	35	35	60
JKT	PD	142	196	1050	0.725	54	24	0	19	54	35	60
JKT	PBR	53	111	1300	0.6	44	72	0	58	58	0	0
JKT	SKN	49	164	1600	0.45	90	144	0	115	115	0	0
JKT	AB	0	105	3050	0.1	95	144	0	115	105	0	0
JKT	TT	0	39	0	0	39		60	48	39	39	60
JKT	SON	0	0	0	0	0		0	0	0	0	0
JKT	JAP	0	18	0	0	18	144	0	115	18	0	0
JKT	MRK	0	0	0	0	0		0	0	0	0	0
BD	CBN	73	73	180	1	0		0	0	0	0	0
BD	SM	79	79	360	0.9	8		0	0	0	0	0
BD	YK	13	32	500	1	0	24	0	19	19	0	0
BD	PWT	65	65	210	1	0		0	0	0	0	0
BD	SB	141	160	680	0.9	16	24	0	19	19	0	0
BD	JR	52	52	910	1	0		0	0	0	0	0
BD	ML	64	64	770	1	0		0	0	0	0	0
BD	MN	48	48	560	1	0		0	0	0	0	0
BD	DPR	5	24	1140	1	0	24	0	19	19	0	0
BD	SBW	0	0	1440	1	0		0	0	0	0	0
BD	END	0	0	1940	1	0		0	0	0	0	0



Table A-4-2. Toll Circuits Distribution for REPELITA-V (2/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
BD	KP	0	0	2540	1	0		0	0	0	0	0
BD	UP	0	31	1940	1	0		60	48	31	31	60
BD	PRE	0	0	2140	1	0		0	0	0	0	0
BD	MO	0	0	3350	1	0		0	0	0	0	0
BD	PAL	0	0	2660	1	0		0	0	0	0	0
BD	KDI	0	0	2690	1	0		0	0	0	0	0
BD	BJM	77	77	1210	0.645	27		0	0	0	0	0
BD	SPT	0	0	1540	1	0		0	0	0	0	0
BD	SMR	0	0	1790	1	0		0	0	0	0	0
BD	TAR	0	0	0	0	0		0	0	0	0	0
BD	PTK	0	0	2140	1	0		60	48	0	0	0
BD	MDN	42	116	1770	0.365	74		0	0	74	74	120
BD	SBG	0	0	1600	1	0		0	0	0	0	0
BD	LSM	0	0	2050	1	0		0	0	0	0	0
BD	BNA	0	0	2250	1	0		0	0	0	0	0
BD	PG	107	107	740	0.88	13		0	0	0	0	0
BD	TJK	49	49	340	1	0		0	0	0	0	0
BD	LT	0	0	630	1	0		0	0	0	0	0
BD	JB	0	0	1000	1	0		0	0	0	0	0
BD	PD	17	17	1180	1	0		0	0	0	0	0
BD	PBR	0	0	1430	1	0		0	0	0	0	0
BD	SKN	0	0	1730	1	0		0	0	0	0	0
BD	AB	0	0	2920	1	0		0	0	0	0	0
BD	TT	0	0	0	0	0		0	0	0	0	0
BD	SON	0	0	0	0	0		0	0	0	0	0
BD	JAP	0	0	0	0	0		0	0	0	0	0
BD	MRK	0	0	0	0	0		0	0	0	0	0
CBN	SM	28	28	360	1	0		0	0	0	0	0
CBN	YK	49	49	500	1	0		0	0	0	0	0
CBN	PWT	5	5	210	1	0		0	0	0	0	0
CBN	SB	110	110	680	1	0		0	0	0	0	0
CBN	JR	0	0	910	1	0		0	0	0	0	0
CBN	ML	0	0	770	1	0		0	0	0	0	0
CBN	MW	0	0	560	1	0		0	0	0	0	0
CBN	DPR	0	0	1140	1	0		0	0	0	0	0
CBN	SBW	0	0	1440	1	0		0	0	0	0	0
CBN	END	0	0	1940	1	0		0	0	0	0	0
CBN	KP	0	0	2540	1	0		0	0	0	0	0
CBN	UP	0	0	1940	1	0		0	0	0	0	0
CBN	PRE	0	0	2140	1	0		0	0	0	0	0
CBN	MO	0	0	3350	1	0		0	0	0	0	0
CBN	PAL	0	0	2660	1	0		0	0	0	0	0
CBN	KDI	0	0	2690	1	0		0	0	0	0	0
CBN	BJM	0	0	1210	1	0		0	0	0	0	0
CBN	SPT	0	0	1540	1	0		0	0	0	0	0
CBN	SHR	0	0	1790	1	0		0	0	0	0	0
CBN	TAR	0	0	0	0	0		0	0	0	0	0
CBN	PTK	0	0	2140	1	0		0	0	0	0	0
CBN	MDN	0	0	1950	1	0		0	0	0	0	0
CBN	SBG	0	0	1780	1	0		0	0	0	0	0

Table A-4-3 Toll Circuits Distribution for REPELITA-V (3/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
CBN	LSM	0	0	2230	1	0		0	0	0	0	0
CBN	BNA	0	0	2430	1	0		0	0	0	0	0
CBN	PG	0	0	920	1	0		0	0	0	0	0
CBN	TJK	0	0	520	1	0		0	0	0	0	0
CBN	LT	0	0	810	1	0		0	0	0	0	0
CBN	JB	0	0	1180	1	0		0	0	0	0	0
CBN	PD	0	0	1360	1	0		0	0	0	0	0
CBN	PBR	0	0	1610	1	0		0	0	0	0	0
CBN	SKN	0	0	1910	1	0		0	0	0	0	0
CBN	AB	0	0	2920	1	0		0	0	0	0	0
CBN	TT	0	0	0	0	0		0	0	0	0	0
CBN	SON	0	0	0	0	0		0	0	0	0	0
CBN	JAP	0	0	0	0	0		0	0	0	0	0
CBN	MRK	0	0	0	0	0		0	0	0	0	0
SM	YK	169	169	140	0.9	17	0	0	0	0	0	0
SM	PWT	116	116	150	1	0		0	0	0	0	0
SM	SB	217	236	320	0.9	24	24	0	19	19	0	0
SM	JR	0	0	550	1	0		0	0	0	0	0
SM	ML	70	70	410	1	0		0	0	0	0	0
SM	MN	70	70	200	1	0		0	0	0	0	0
SM	DPR	46	46	780	1	0		0	0	0	0	0
SM	SBW	0	0	1080	1	0		0	0	0	0	0
SM	END	0	0	1580	1	0		0	0	0	0	0
SM	KP	0	0	2180	1	0		0	0	0	0	0
SM	UP	0	48	1580	1	0		60	48	48	48	60
SM	PRE	0	0	1780	1	0		0	0	0	0	0
SM	MO	0	0	2990	1	0		0	0	0	0	0
SM	PAL	0	0	2300	1	0		0	0	0	0	0
SM	KDI	0	0	2330	1	0		0	0	0	0	0
SM	BJM	9	9	850	1	0		0	0	0	0	0
SM	SPT	0	0	1180	1	0		0	0	0	0	0
SM	SMR	0	0	1430	1	0		0	0	0	0	0
SM	TAR	0	0	0	0	0		0	0	0	0	0
SM	PTK	0	0	1780	1	0		0	0	0	0	0
SM	MDN	55	55	2130	1	0		0	0	0	0	0
SM	SBG	0	0	1960	1	0		0	0	0	0	0
SM	LSM	0	0	2410	1	0		0	0	0	0	0
SM	BNA	0	0	2610	1	0		0	0	0	0	0
SM	PG	44	44	1100	1	0		0	0	0	0	0
SM	TJK	0	0	700	1	0		0	0	0	0	0
SM	LT	0	0	990	1	0		0	0	0	0	0
SM	JB	0	0	1360	1	0		0	0	0	0	0
SM	PD	0	0	1540	1	0		0	0	0	0	0
SM	PBR	0	0	1790	1	0		0	0	0	0	0
SM	SKN	0	0	2090	1	0		0	0	0	0	0
SM	AB	0	0	2560	1	0		0	0	0	0	0
SM	TT	0	0	0	0	0		0	0	0	0	0
SM	SON	0	0	0	0	0		0	0	0	0	0
SM	JAP	0	0	0	0	0		0	0	0	0	0
SM	MRK	0	0	0	0	0		0	0	0	0	0

Table A-4-4 Toll Circuits Distribution for REPELITA-V (4/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
YK	PWT	122	122	290	1	0		0	0	0	0	0
YK	SB	112	112	300	0.9	11		0	0	0	0	0
YK	JR	0	0	530	1	0		0	0	0	0	0
YK	ML	61	61	390	1	0		0	0	0	0	0
YK	MN	62	62	180	1	0		0	0	0	0	0
YK	DPR	3	22	760	1	0	24	0	19	19	0	0
YK	SBW	0	0	1060	1	0		0	0	0	0	0
YK	END	0	0	1560	1	0		0	0	0	0	0
YK	KP	0	0	2160	1	0		0	0	0	0	0
YK	UP	10	10	1560	1	0		0	0	0	0	0
YK	PRE	0	0	1760	1	0		0	0	0	0	0
YK	MO	0	0	2970	1	0		0	0	0	0	0
YK	PAL	0	0	2280	1	0		0	0	0	0	0
YK	KDI	0	0	2310	1	0		0	0	0	0	0
YK	BJM	8	8	830	1	0		0	0	0	0	0
YK	SPT	0	0	1160	1	0		0	0	0	0	0
YK	SMR	0	0	1410	1	0		0	0	0	0	0
YK	TAR	0	0	0	0	0		0	0	0	0	0
YK	PTK	0	0	1760	1	0		0	0	0	0	0
YK	MDN	12	12	2270	1	0		0	0	0	0	0
YK	SBG	0	0	2100	1	0		0	0	0	0	0
YK	LSM	0	0	2550	1	0		0	0	0	0	0
YK	BNA	0	0	2750	1	0		0	0	0	0	0
YK	PG	0	0	1240	1	0		0	0	0	0	0
YK	TJK	0	0	840	1	0		0	0	0	0	0
YK	LT	0	0	1130	1	0		0	0	0	0	0
YK	JB	0	0	1500	1	0		0	0	0	0	0
YK	PD	0	0	1680	1	0		0	0	0	0	0
YK	PBR	0	0	1930	1	0		0	0	0	0	0
YK	SKN	0	0	2230	1	0		0	0	0	0	0
YK	AB	0	0	2540	1	0		0	0	0	0	0
YK	TT	0	0	0	0	0		0	0	0	0	0
YK	SON	0	0	0	0	0		0	0	0	0	0
YK	JAP	0	0	0	0	0		0	0	0	0	0
YK	MRK	0	0	0	0	0		0	0	0	0	0
PWT	SB	149	149	470	1	0		0	0	0	0	0
PWT	JR	0	0	700	1	0		0	0	0	0	0
PWT	ML	0	0	560	1	0		0	0	0	0	0
PWT	MN	0	0	350	1	0		0	0	0	0	0
PWT	DPR	0	0	930	1	0		0	0	0	0	0
PWT	SBW	0	0	1230	1	0		0	0	0	0	0
PWT	END	0	0	1730	1	0		0	0	0	0	0
PWT	KP	0	0	2330	1	0		0	0	0	0	0
PWT	UP	0	0	1730	1	0		0	0	0	0	0
PWT	PRE	0	0	1930	1	0		0	0	0	0	0
PWT	MO	0	0	3140	1	0		0	0	0	0	0
PWT	PAL	0	0	2450	1	0		0	0	0	0	0
PWT	KDI	0	0	2480	1	0		0	0	0	0	0
PWT	BJM	0	0	1000	1	0		0	0	0	0	0
PWT	SPT	0	0	1330	1	0		0	0	0	0	0

Table A-4-5 Toll Circuits Distribution for REPELITA-V (5/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
PWT	SMR	0	0	1580	1	0		0	0	0	0	0
PWT	TAR	0	0	0	0	0		0	0	0	0	0
PWT	PTK	0	0	1930	1	0		0	0	0	0	0
PWT	MDN	10	10	1980	1	0		0	0	0	0	0
PWT	SBG	0	0	1810	1	0		0	0	0	0	0
PWT	LSM	0	0	2260	1	0		0	0	0	0	0
PWT	BNA	0	0	2460	1	0		0	0	0	0	0
PWT	PG	0	0	950	1	0		0	0	0	0	0
PWT	TJK	0	0	550	1	0		0	0	0	0	0
PWT	LT	0	0	840	1	0		0	0	0	0	0
PWT	JB	0	0	1210	1	0		0	0	0	0	0
PWT	PD	0	0	1390	1	0		0	0	0	0	0
PWT	PBR	0	0	1640	1	0		0	0	0	0	0
PWT	SKN	0	0	1940	1	0		0	0	0	0	0
PWT	AB	0	0	2710	1	0		0	0	0	0	0
PWT	TT	0	0	0	0	0		0	0	0	0	0
PWT	SON	0	0	0	0	0		0	0	0	0	0
PWT	JAP	0	0	0	0	0		0	0	0	0	0
PWT	MRK	0	0	0	0	0		0	0	0	0	0
SB	JR	499	499	230	1	0		0	0	0	0	0
SB	ML	667	667	90	1	0		0	0	0	0	0
SB	MN	419	419	160	1	0		0	0	0	0	0
SB	DPR	332	370	460	0.9	37	48	0	38	38	0	0
SB	SBW	231	231	760	1	0		0	0	0	0	0
SB	END	96	96	1260	1	0		0	0	0	0	0
SB	KP	84	264	1860	0.32	180		120	96	180	180	180
SB	UP	13	253	1260	0.62	96	120	180	240	240	144	180
SB	PRE	8	8	1460	1	0		0	0	0	0	0
SB	MO	0	70	2670	0.1	63	72	60	106	70	12	60
SB	PAL	0	46	1980	1	0		60	48	46	46	60
SB	KOI	0	44	2010	1	0		60	48	44	44	60
SB	BJM	166	233	530	0.9	23	24	60	67	67	48	60
SB	SPT	25	25	860	1	0		0	0	0	0	0
SB	SMR	0	142	1110	0.695	43	96	120	173	142	65	120
SB	TAR	0	0	0	0	0		0	0	0	0	0
SB	PTK	0	79	1460	0.52	38	72	120	154	79	21	60
SB	MDN	25	254	2450	0.1	229	120	60	144	229	133	180
SB	SBG	6	6	2280	1	0		0	0	0	0	0
SB	LSM	8	8	2730	1	0		0	0	0	0	0
SB	BNA	28	66	2930	0.1	59	48	0	38	38	0	0
SB	PG	103	209	1420	0.54	96	72	60	106	106	48	60
SB	TJK	95	128	1020	0.74	33		0	0	33	33	60
SB	LT	0	0	1310	1	0		0	0	0	0	0
SB	JB	27	66	1680	0.41	39		0	0	39	39	60
SB	PD	21	59	1860	1	0	48	0	38	38	0	0
SB	PBR	13	65	2110	0.195	52		0	0	52	52	60
SB	SKN	57	57	2410	1	0		0	0	0	0	0
SB	AB	11	69	2240	0.13	60	72	0	58	58	0	0
SB	TT	0	0	0	0	0		0	0	0	0	0
SB	SON	0	0	0	0	0		0	0	0	0	0

Table A-4-6 Toll Circuits Distribution for REPELITA-V (6/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
SB	JAP	0	28	0	0	28	72	0	58	28	0	0
SB	MRK	0	0	0	0	0		0	0	0	0	0
JR	ML	60	60	180	1	0		0	0	0	0	0
JR	MN	0	0	390	1	0		0	0	0	0	0
JR	DPR	58	58	230	1	0		0	0	0	0	0
JR	SBW	0	0	530	1	0		0	0	0	0	0
JR	END	0	0	1030	1	0		0	0	0	0	0
JR	KP	0	0	1630	1	0		0	0	0	0	0
JR	UP	0	0	1490	1	0		0	0	0	0	0
JR	PRE	0	0	1690	1	0		0	0	0	0	0
JR	MO	0	0	2900	1	0		0	0	0	0	0
JR	PAL	0	0	2210	1	0		0	0	0	0	0
JR	KDI	0	0	2240	1	0		0	0	0	0	0
JR	BJM	0	0	760	1	0		0	0	0	0	0
JR	SPT	0	0	1090	1	0		0	0	0	0	0
JR	SMR	0	0	1340	1	0		0	0	0	0	0
JR	TAR	0	0	0	0	0		0	0	0	0	0
JR	PTK	0	0	1690	1	0		0	0	0	0	0
JR	MDN	4	4	2680	1	0		0	0	0	0	0
JR	SBG	0	0	2510	1	0		0	0	0	0	0
JR	LSM	0	0	2960	1	0		0	0	0	0	0
JR	BNA	0	0	3160	1	0		0	0	0	0	0
JR	PG	0	0	1650	1	0		0	0	0	0	0
JR	TJK	0	0	1250	1	0		0	0	0	0	0
JR	LT	0	0	1540	1	0		0	0	0	0	0
JR	JB	0	0	1910	1	0		0	0	0	0	0
JR	PD	0	0	2090	1	0		0	0	0	0	0
JR	PBR	0	0	2340	1	0		0	0	0	0	0
JR	SKN	0	0	2640	1	0		0	0	0	0	0
JR	AB	0	0	2470	1	0		0	0	0	0	0
JR	TT	0	0	0	0	0		0	0	0	0	0
JR	SON	0	0	0	0	0		0	0	0	0	0
JR	JAP	0	0	0	0	0		0	0	0	0	0
JR	MRK	0	0	0	0	0		0	0	0	0	0
ML	MN	55	55	250	1	0		0	0	0	0	0
ML	DPR	52	52	410	1	0		0	0	0	0	0
ML	SBW	0	0	710	1	0		0	0	0	0	0
ML	END	0	0	1210	1	0		0	0	0	0	0
ML	KP	0	0	1810	1	0		0	0	0	0	0
ML	UP	11	11	1350	1	0		0	0	0	0	0
ML	PRE	0	0	1550	1	0		0	0	0	0	0
ML	MO	0	0	2760	1	0		0	0	0	0	0
ML	PAL	0	0	2070	1	0		0	0	0	0	0
ML	KDI	0	0	2100	1	0		0	0	0	0	0
ML	BJM	0	0	620	1	0		0	0	0	0	0
ML	SPT	0	0	950	1	0		0	0	0	0	0
ML	SMR	0	0	1200	1	0		0	0	0	0	0
ML	TAR	0	0	0	0	0		0	0	0	0	0
ML	PTK	0	0	1550	1	0		0	0	0	0	0
ML	MDN	0	0	2540	1	0		0	0	0	0	0

Table A-4-7 Toll Circuits Distribution for REPELITA-V (7/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
ML	SBG	0	0	2370	1	0		0	0	0	0	0
ML	LSM	0	0	2820	1	0		0	0	0	0	0
ML	BNA	0	0	3020	1	0		0	0	0	0	0
ML	PG	0	0	1510	1	0		0	0	0	0	0
ML	TJK	0	0	1110	1	0		0	0	0	0	0
ML	LT	0	0	1400	1	0		0	0	0	0	0
ML	JB	0	0	1770	1	0		0	0	0	0	0
ML	PD	0	0	1950	1	0		0	0	0	0	0
ML	PBR	0	0	2200	1	0		0	0	0	0	0
ML	SKN	0	0	2500	1	0		0	0	0	0	0
ML	AB	0	0	2330	1	0		0	0	0	0	0
ML	TT	0	0	0	0	0		0	0	0	0	0
ML	SON	0	0	0	0	0		0	0	0	0	0
ML	JAP	0	0	0	0	0		0	0	0	0	0
ML	MRK	0	0	0	0	0		0	0	0	0	0
MN	DPR	0	0	620	1	0		0	0	0	0	0
MN	SBW	0	0	920	1	0		0	0	0	0	0
MN	END	0	0	1420	1	0		0	0	0	0	0
MN	KP	0	0	2020	1	0		0	0	0	0	0
MN	UP	0	0	1420	1	0		0	0	0	0	0
MN	PRE	0	0	1620	1	0		0	0	0	0	0
MN	MO	0	0	2830	1	0		0	0	0	0	0
MN	PAL	0	0	2140	1	0		0	0	0	0	0
MN	KDI	0	0	2170	1	0		0	0	0	0	0
MN	BJM	0	0	690	1	0		0	0	0	0	0
MN	SPT	0	0	1020	1	0		0	0	0	0	0
MN	SMR	0	0	1270	1	0		0	0	0	0	0
MN	TAR	0	0	0	0	0		0	0	0	0	0
MN	PTK	0	0	1620	1	0		0	0	0	0	0
MN	MDN	0	0	2330	1	0		0	0	0	0	0
MN	SBG	0	0	2160	1	0		0	0	0	0	0
MN	LSM	0	0	2610	1	0		0	0	0	0	0
MN	BNA	0	0	2810	1	0		0	0	0	0	0
MN	PG	0	0	1300	1	0		0	0	0	0	0
MN	TJK	0	0	900	1	0		0	0	0	0	0
MN	LT	0	0	1190	1	0		0	0	0	0	0
MN	JB	0	0	1560	1	0		0	0	0	0	0
MN	PD	0	0	1740	1	0		0	0	0	0	0
MN	PBR	0	0	1990	1	0		0	0	0	0	0
MN	SKN	0	0	2290	1	0		0	0	0	0	0
MN	AB	0	0	2400	1	0		0	0	0	0	0
MN	TT	0	0	0	0	0		0	0	0	0	0
MN	SON	0	0	0	0	0		0	0	0	0	0
MN	JAP	0	0	0	0	0		0	0	0	0	0
MN	MRK	0	0	0	0	0		0	0	0	0	0
DPR	SBW	23	23	300	1	0		0	0	0	0	0
DPR	END	0	0	800	1	0		0	0	0	0	0
DPR	KP	0	0	1400	1	0		0	0	0	0	0
DPR	UP	27	46	1720	1	0	24	0	19	19	0	0
DPR	PRE	0	0	1920	1	0		0	0	0	0	0

Table A-4-8 Toll Circuits Distribution for REPELITA-V (8/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
DPR	MO	0	0	3130	1	0		0	0	0	0	0
DPR	PAL	0	0	2440	1	0		0	0	0	0	0
DPR	KDI	0	0	2470	1	0		0	0	0	0	0
DPR	BJM	39	39	990	1	0		0	0	0	0	0
DPR	SPT	0	0	1320	1	0		0	0	0	0	0
DPR	SMR	0	0	1570	1	0		0	0	0	0	0
DPR	TAR	0	0	0	0	0		0	0	0	0	0
DPR	PTK	0	0	1920	1	0		0	0	0	0	0
DPR	MDN	11	11	2910	1	0		0	0	0	0	0
DPR	SBG	0	0	2740	1	0		0	0	0	0	0
DPR	LSM	0	0	3190	1	0		0	0	0	0	0
DPR	BNA	0	0	3390	1	0		0	0	0	0	0
DPR	PG	0	0	1880	1	0		0	0	0	0	0
DPR	TJK	0	0	1480	1	0		0	0	0	0	0
DPR	LT	0	0	1770	1	0		0	0	0	0	0
DPR	JB	0	0	2140	1	0		0	0	0	0	0
DPR	PD	0	0	2320	1	0		0	0	0	0	0
DPR	PBR	0	0	2570	1	0		0	0	0	0	0
DPR	SKN	0	0	2870	1	0		0	0	0	0	0
DPR	AB	0	0	2700	1	0		0	0	0	0	0
DPR	TT	0	0	0	0	0		0	0	0	0	0
DPR	SON	0	0	0	0	0		0	0	0	0	0
DPR	JAP	0	0	0	0	0		0	0	0	0	0
DPR	MRK	0	0	0	0	0		0	0	0	0	0
SBW	END	0	0	500	1	0		0	0	0	0	0
SBW	KP	0	0	1100	1	0		0	0	0	0	0
SBW	UP	8	8	2020	1	0		0	0	0	0	0
SBW	PRE	0	0	2220	1	0		0	0	0	0	0
SBW	MO	0	0	3430	1	0		0	0	0	0	0
SBW	PAL	0	0	2740	1	0		0	0	0	0	0
SBW	KDI	0	0	2770	1	0		0	0	0	0	0
SBW	BJM	5	5	1290	1	0		0	0	0	0	0
SBW	SPT	0	0	1620	1	0		0	0	0	0	0
SBW	SMR	0	0	1870	1	0		0	0	0	0	0
SBW	TAR	0	0	0	0	0		0	0	0	0	0
SBW	PTK	0	0	2220	1	0		0	0	0	0	0
SBW	MDN	0	0	3210	1	0		0	0	0	0	0
SBW	SBG	0	0	3040	1	0		0	0	0	0	0
SBW	LSM	0	0	3490	1	0		0	0	0	0	0
SBW	BNA	0	0	3690	1	0		0	0	0	0	0
SBW	PG	0	0	2180	1	0		0	0	0	0	0
SBW	TJK	0	0	1780	1	0		0	0	0	0	0
SBW	LT	0	0	2070	1	0		0	0	0	0	0
SBW	JB	0	0	2440	1	0		0	0	0	0	0
SBW	PD	0	0	2620	1	0		0	0	0	0	0
SBW	PBR	0	0	2870	1	0		0	0	0	0	0
SBW	SKN	0	0	3170	1	0		0	0	0	0	0
SBW	AB	0	0	3000	1	0		0	0	0	0	0
SBW	TT	0	0	0	0	0		0	0	0	0	0
SBW	SON	0	0	0	0	0		0	0	0	0	0

Table A-4-9 Toll Circuits Distribution for REPELITA-V (9/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
SBW	JAP	0	0	0	0	0		0	0	0	0	0
SBW	MRK	0	0	0	0	0		0	0	0	0	0
END	KP	0	0	620	1	0		0	0	0	0	0
END	UP	9	9	2520	1	0		0	0	0	0	0
END	PRE	0	0	2720	1	0		0	0	0	0	0
END	MO	0	0	3930	1	0		0	0	0	0	0
END	PAL	0	0	3240	1	0		0	0	0	0	0
END	KDI	0	0	3270	1	0		0	0	0	0	0
END	BJM	8	8	1790	1	0		0	0	0	0	0
END	SPT	0	0	2120	1	0		0	0	0	0	0
END	SMR	0	0	2370	1	0		0	0	0	0	0
END	TAR	0	0	0	0	0		0	0	0	0	0
END	PTK	0	0	2720	1	0		0	0	0	0	0
END	MDN	5	5	3710	1	0		0	0	0	0	0
END	SBG	0	0	3540	1	0		0	0	0	0	0
END	LSM	0	0	3990	1	0		0	0	0	0	0
END	BNA	0	0	4190	1	0		0	0	0	0	0
END	PG	12	12	2680	1	0		0	0	0	0	0
END	TJK	0	0	2280	1	0		0	0	0	0	0
END	LT	0	0	2570	1	0		0	0	0	0	0
END	JB	0	0	2940	1	0		0	0	0	0	0
END	PD	0	0	3120	1	0		0	0	0	0	0
END	PBR	0	0	3370	1	0		0	0	0	0	0
END	SKN	0	0	3670	1	0		0	0	0	0	0
END	AB	0	0	3500	1	0		0	0	0	0	0
END	TT	0	0	0	0	0		0	0	0	0	0
END	SON	0	0	0	0	0		0	0	0	0	0
END	JAP	0	0	0	0	0		0	0	0	0	0
END	MRK	0	0	0	0	0		0	0	0	0	0
KP	UP	0	39	3120	1	0		60	48	39	39	60
KP	PRE	0	0	3320	1	0		0	0	0	0	0
KP	MO	0	0	4530	1	0		0	0	0	0	0
KP	PAL	0	0	3840	1	0		0	0	0	0	0
KP	KDI	0	0	3870	1	0		0	0	0	0	0
KP	BJM	14	14	2390	1	0		0	0	0	0	0
XP	SPT	0	0	2720	1	0		0	0	0	0	0
KP	SMR	0	0	2970	1	0		0	0	0	0	0
KP	TAR	0	0	0	0	0		0	0	0	0	0
KP	PTK	0	0	3320	1	0		0	0	0	0	0
KP	MDN	7	7	4310	1	0		0	0	0	0	0
XP	SBG	0	0	4140	1	0		0	0	0	0	0
KP	LSM	0	0	4590	1	0		0	0	0	0	0
KP	BNA	0	0	4790	1	0		0	0	0	0	0
KP	PG	22	22	3280	1	0		0	0	0	0	0
KP	TJK	0	0	2880	1	0		0	0	0	0	0
KP	LT	0	0	3170	1	0		0	0	0	0	0
KP	JB	0	0	3540	1	0		0	0	0	0	0
KP	PD	0	0	3720	1	0		0	0	0	0	0
KP	PBR	0	0	3970	1	0		0	0	0	0	0
KP	SKN	0	0	4270	1	0		0	0	0	0	0



Table A-4-10 Toll Circuits Distribution for REPELITA-V (10/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
KP	AB	0	0	4100	1	0		0	0	0	0	0
KP	TT	0	0	0	0	0		0	0	0	0	0
KP	SON	0	0	0	0	0		0	0	0	0	0
KP	JAP	0	0	0	0	0		0	0	0	0	0
KP	MRK	0	0	0	0	0		0	0	0	0	0
UP	PRE	243	243	200	1	0		0	0	0	0	0
UP	MO	63	169	1410	0.545	77	72	60	106	106	48	60
UP	PAL	54	102	720	0.89	11		60	48	48	48	60
UP	KDI	47	95	750	0.875	12		60	48	48	48	60
UP	BJM	47	95	870	0.815	18		60	48	48	48	60
UP	SPT	10	10	1200	1	0		0	0	0	0	0
UP	SNR	0	50	1450	1	0		120	96	50	50	60
UP	TAR	0	0	0	0	0		0	0	0	0	0
UP	PTK	13	13	1800	1	0		0	0	0	0	0
UP	MDN	7	103	3710	0.1	93		120	96	96	96	120
UP	SBG	0	0	3540	1	0		0	0	0	0	0
UP	LSM	0	0	3990	1	0		0	0	0	0	0
UP	BNA	12	12	4190	1	0		0	0	0	0	0
UP	PG	13	129	2680	0.1	116	48	0	38	116	78	120
UP	TJK	13	13	2280	1	0		0	0	0	0	0
UP	LT	0	0	2570	1	0		0	0	0	0	0
UP	JB	12	12	2940	1	0		0	0	0	0	0
UP	PD	15	15	3120	1	0		0	0	0	0	0
UP	PBR	18	18	3370	1	0		0	0	0	0	0
UP	SKN	12	12	3670	1	0		0	0	0	0	0
UP	AB	0	52	1140	1	0	72	0	58	52	0	0
UP	TT	0	0	0	0	0		0	0	0	0	0
UP	SON	0	0	0	0	0		0	0	0	0	0
UP	JAP	0	0	0	0	0		0	0	0	0	0
UP	MRK	0	0	0	0	0		0	0	0	0	0
PRE	MO	0	0	1230	1	0		0	0	0	0	0
PRE	PAL	0	0	540	1	0		0	0	0	0	0
PRE	KDI	0	0	570	1	0		0	0	0	0	0
PRE	BJM	0	0	1070	1	0		0	0	0	0	0
PRE	SPT	0	0	1400	1	0		0	0	0	0	0
PRE	SMR	0	0	1650	1	0		0	0	0	0	0
PRE	TAR	0	0	0	0	0		0	0	0	0	0
PRE	PTK	0	0	2000	1	0		0	0	0	0	0
PRE	MDN	0	0	3910	1	0		0	0	0	0	0
PRE	SBG	0	0	3740	1	0		0	0	0	0	0
PRE	LSM	0	0	4190	1	0		0	0	0	0	0
PRE	BNA	0	0	4390	1	0		0	0	0	0	0
PRE	PG	0	0	2880	1	0		0	0	0	0	0
PRE	TJK	0	0	2480	1	0		0	0	0	0	0
PRE	LT	0	0	2770	1	0		0	0	0	0	0
PRE	JB	0	0	3140	1	0		0	0	0	0	0
PRE	PD	0	0	3320	1	0		0	0	0	0	0
PRE	PBR	0	0	3570	1	0		0	0	0	0	0
PRE	SKN	0	0	3870	1	0		0	0	0	0	0
PRE	AB	0	0	1340	1	0		0	0	0	0	0

Table A-4-11 Toll Circuits Distribution for REPELITA-V (11/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
PRE	TT	0	0	0	0	0		0	0	0	0	0
PRE	SON	0	0	0	0	0		0	0	0	0	0
PRE	JAP	0	0	0	0	0		0	0	0	0	0
PRE	MRK	0	0	0	0	0		0	0	0	0	0
MO	PAL	0	0	790	1	0		0	0	0	0	0
MO	KDI	0	0	1300	1	0		0	0	0	0	0
MO	BJM	9	9	2280	1	0		0	0	0	0	0
MO	SPT	0	0	2610	1	0		0	0	0	0	0
MO	SMR	0	29	2860	1	0		60	48	29	29	60
MO	TAR	0	0	0	0	0		0	0	0	0	0
MO	PTK	0	0	3210	1	0		0	0	0	0	0
MO	MDN	8	46	5120	1	0	48	0	38	38	0	0
MO	SBG	0	0	4950	1	0		0	0	0	0	0
MO	LSM	0	0	5400	1	0		0	0	0	0	0
MO	BNA	0	0	5600	1	0		0	0	0	0	0
MO	PG	27	27	4090	1	0		0	0	0	0	0
MO	TJK	0	0	3690	1	0		0	0	0	0	0
MO	LT	0	0	3980	1	0		0	0	0	0	0
MO	JB	0	0	4350	1	0		0	0	0	0	0
MO	PD	0	0	4530	1	0		0	0	0	0	0
MO	PBR	0	0	4780	1	0		0	0	0	0	0
MO	SKN	0	0	5080	1	0		0	0	0	0	0
MO	AB	0	0	2550	1	0		0	0	0	0	0
MO	TT	0	18	0	0	18		60	48	18	18	60
MO	SON	0	0	0	0	0		0	0	0	0	0
MO	JAP	0	0	0	0	0		0	0	0	0	0
MO	MRK	0	0	0	0	0		0	0	0	0	0
PAL	KDI	0	0	610	1	0		0	0	0	0	0
PAL	BJM	7	7	1590	1	0		0	0	0	0	0
PAL	SPT	0	0	1920	1	0		0	0	0	0	0
PAL	SMR	0	18	2170	1	0		60	48	18	18	60
PAL	TAR	0	0	0	0	0		0	0	0	0	0
PAL	PTK	0	0	2520	1	0		0	0	0	0	0
PAL	MDN	8	8	4430	1	0		0	0	0	0	0
PAL	SBG	0	0	4260	1	0		0	0	0	0	0
PAL	LSM	0	0	4710	1	0		0	0	0	0	0
PAL	BNA	0	0	4910	1	0		0	0	0	0	0
PAL	PG	15	15	3400	1	0		0	0	0	0	0
PAL	TJK	0	0	3000	1	0		0	0	0	0	0
PAL	LT	0	0	3290	1	0		0	0	0	0	0
PAL	JB	0	0	3660	1	0		0	0	0	0	0
PAL	PD	0	0	3840	1	0		0	0	0	0	0
PAL	PBR	0	0	4090	1	0		0	0	0	0	0
PAL	SKN	0	0	4390	1	0		0	0	0	0	0
PAL	AB	0	0	1860	1	0		0	0	0	0	0
PAL	TT	0	0	0	0	0		0	0	0	0	0
PAL	SON	0	0	0	0	0		0	0	0	0	0
PAL	JAP	0	0	0	0	0		0	0	0	0	0
PAL	MRK	0	0	0	0	0		0	0	0	0	0
KDI	BJM	11	11	1620	1	0		0	0	0	0	0

Table A-4-12 Toll Circuits Distribution for REPELITA-V (12/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
KDI	SPT	0	0	1950	1	0		0	0	0	0	0
KDI	SMR	0	0	2200	1	0		0	0	0	0	0
KDI	TAR	0	0	0	0	0		0	0	0	0	0
KDI	PTK	0	0	2550	1	0		0	0	0	0	0
KDI	MDN	7	7	4460	1	0		0	0	0	0	0
KDI	SBG	0	0	4290	1	0		0	0	0	0	0
KDI	LSM	0	0	4740	1	0		0	0	0	0	0
KDI	BNA	0	0	4940	1	0		0	0	0	0	0
KDI	PG	14	14	3430	1	0		0	0	0	0	0
KDI	TJK	0	0	3030	1	0		0	0	0	0	0
KDI	LT	0	0	3320	1	0		0	0	0	0	0
KDI	JB	0	0	3690	1	0		0	0	0	0	0
KDI	PD	0	0	3870	1	0		0	0	0	0	0
KDI	PBR	0	0	4120	1	0		0	0	0	0	0
KDI	SKN	0	0	4420	1	0		0	0	0	0	0
KDI	AB	0	0	1890	1	0		0	0	0	0	0
KDI	TT	0	0	0	0	0		0	0	0	0	0
KDI	SON	0	0	0	0	0		0	0	0	0	0
KDI	JAP	0	0	0	0	0		0	0	0	0	0
KDI	MRK	0	0	0	0	0		0	0	0	0	0
BJM	SPT	136	136	330	0.9	14		0	0	0	0	0
BJM	SMR	7	122	580	0.9	12	24	120	115	115	96	120
BJM	TAR	0	0	0	0	0		0	0	0	0	0
BJM	PTK	119	152	930	0.785	33		0	0	33	33	60
BJM	MDN	6	62	2980	0.1	56	24	0	19	56	37	60
BJM	SBG	0	0	2810	1	0		0	0	0	0	0
BJM	LSM	0	0	3260	1	0		0	0	0	0	0
BJM	BNA	12	12	3460	1	0		0	0	0	0	0
BJM	PG	30	110	1950	0.275	80	48	0	38	80	42	60
BJM	TJK	18	18	1550	1	0		0	0	0	0	0
BJM	LT	0	0	1840	1	0		0	0	0	0	0
BJM	JB	14	14	2210	1	0		0	0	0	0	0
BJM	PD	14	14	2390	1	0		0	0	0	0	0
BJM	PBR	15	15	2640	1	0		0	0	0	0	0
BJM	SKN	13	13	2940	1	0		0	0	0	0	0
BJM	AB	28	28	1850	1	0		0	0	0	0	0
BJM	TT	0	0	0	0	0		0	0	0	0	0
BJM	SON	0	0	0	0	0		0	0	0	0	0
BJM	JAP	0	0	0	0	0		0	0	0	0	0
BJM	MRK	0	0	0	0	0		0	0	0	0	0
SPT	SMR	0	0	910	1	0		0	0	0	0	0
SPT	TAR	0	0	0	0	0		0	0	0	0	0
SPT	PTK	0	0	600	1	0		0	0	0	0	0
SPT	MDN	7	7	3310	1	0		0	0	0	0	0
SPT	SBG	0	0	3140	1	0		0	0	0	0	0
SPT	LSM	0	0	3590	1	0		0	0	0	0	0
SPT	BNA	0	0	3790	1	0		0	0	0	0	0
SPT	PG	15	15	2280	1	0		0	0	0	0	0
SPT	TJK	0	0	1880	1	0		0	0	0	0	0
SPT	LT	0	0	2170	1	0		0	0	0	0	0

Table A-4-13 Toll Circuits Distribution for REPELITA-V (13/16)

O-EXC	T-EXC	CCT-TERR	COCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
SPT	JB	0	0	2540	1	0		0	0	0	0	0
SPT	PD	0	0	2720	1	0		0	0	0	0	0
SPT	PBR	0	0	2970	1	0		0	0	0	0	0
SPT	SKN	0	0	3270	1	0		0	0	0	0	0
SPT	AB	0	0	2180	1	0		0	0	0	0	0
SPT	TT	0	0	0	0	0		0	0	0	0	0
SPT	SON	0	0	0	0	0		0	0	0	0	0
SPT	JAP	0	0	0	0	0		0	0	0	0	0
SPT	MRK	0	0	0	0	0		0	0	0	0	0
SMR	TAR	0	0	0	0	0		0	0	0	0	0
SMR	PTK	0	0	1510	1	0		0	0	0	0	0
SMR	MDN	0	47	3560	1	0		60	48	47	47	60
SMR	SBG	0	0	3390	1	0		0	0	0	0	0
SMR	LSM	0	0	3840	1	0		0	0	0	0	0
SMR	BNA	0	0	4040	1	0		0	0	0	0	0
SMR	PG	27	27	2530	1	0		0	0	0	0	0
SMR	TJK	0	0	2130	1	0		0	0	0	0	0
SMR	LT	0	0	2420	1	0		0	0	0	0	0
SMR	JB	0	0	2790	1	0		0	0	0	0	0
SMR	PD	0	0	2970	1	0		0	0	0	0	0
SMR	PBR	0	0	3220	1	0		0	0	0	0	0
SMR	SKN	0	0	3520	1	0		0	0	0	0	0
SMR	AB	0	0	2430	1	0		0	0	0	0	0
SMR	TT	0	0	0	0	0		0	0	0	0	0
SMR	SON	0	0	0	0	0		0	0	0	0	0
SMR	JAP	0	0	0	0	0		0	0	0	0	0
SMR	MRK	0	0	0	0	0		0	0	0	0	0
TAR	PTK	0	0	0	0	0		0	0	0	0	0
TAR	MDN	0	0	0	0	0		0	0	0	0	0
TAR	SBG	0	0	0	0	0		0	0	0	0	0
TAR	LSM	0	0	0	0	0		0	0	0	0	0
TAR	BNA	0	0	0	0	0		0	0	0	0	0
TAR	PG	0	0	0	0	0		0	0	0	0	0
TAR	TJK	0	0	0	0	0		0	0	0	0	0
TAR	LT	0	0	0	0	0		0	0	0	0	0
TAR	JB	0	0	0	0	0		0	0	0	0	0
TAR	PD	0	0	0	0	0		0	0	0	0	0
TAR	PBR	0	0	0	0	0		0	0	0	0	0
TAR	SKN	0	0	0	0	0		0	0	0	0	0
TAR	AB	0	0	0	0	0		0	0	0	0	0
TAR	TT	0	0	0	0	0		0	0	0	0	0
TAR	SON	0	0	0	0	0		0	0	0	0	0
TAR	JAP	0	0	0	0	0		0	0	0	0	0
TAR	MRK	0	0	0	0	0		0	0	0	0	0
PTK	MDN	0	35	3910	1	0		60	48	35	35	60
PTK	SBG	0	0	3740	1	0		0	0	0	0	0
PTK	LSM	0	0	4190	1	0		0	0	0	0	0
PTK	BNA	0	0	4390	1	0		0	0	0	0	0
PTK	PG	32	32	2880	1	0		0	0	0	0	0
PTK	TJK	0	0	2480	1	0		0	0	0	0	0

Table A-4-14 Toll Circuits Distribution for REPELITA-V (14/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
PTK	LT	0	0	2770	1	0		0	0	0	0	0
PTK	JB	0	0	3140	1	0		0	0	0	0	0
PTK	PD	0	0	3320	1	0		0	0	0	0	0
PTK	PBR	0	0	3570	1	0		0	0	0	0	0
PTK	SKN	0	0	3870	1	0		0	0	0	0	0
PTK	AB	0	0	2780	1	0		0	0	0	0	0
PTK	TT	0	0	0	0	0		0	0	0	0	0
PTK	SON	0	0	0	0	0		0	0	0	0	0
PTK	JAP	0	0	0	0	0		0	0	0	0	0
PTK	MRK	0	0	0	0	0		0	0	0	0	0
MDN	SBG	182	182	230	1	0		0	0	0	0	0
MDN	LSM	220	220	280	1	0		0	0	0	0	0
MDN	BNA	189	189	480	0.9	19	0	0	0	0	0	0
MDN	PG	129	217	1310	0.595	88		0	0	88	88	120
MDN	TJK	0	0	1450	1	0		0	0	0	0	0
MDN	LT	12	12	1200	1	0		0	0	0	0	0
MDN	JB	28	28	1090	1	0		0	0	0	0	0
MDN	PD	81	81	590	0.9	8		0	0	0	0	0
MDN	PBR	0	32	700	1	0	48	0	38	32	0	0
MDN	SKN	52	52	1000	1	0		0	0	0	0	0
MDN	AB	33	33	4690	1	0		0	0	0	0	0
MDN	TT	0	0	0	0	0		0	0	0	0	0
MDN	SON	0	0	0	0	0		0	0	0	0	0
MDN	JAP	0	0	0	0	0		0	0	0	0	0
MDN	MRK	0	0	0	0	0		0	0	0	0	0
SBG	LSM	0	0	510	1	0		0	0	0	0	0
SBG	BNA	0	0	710	1	0		0	0	0	0	0
SBG	PG	0	0	1140	1	0		0	0	0	0	0
SBG	TJK	0	0	1280	1	0		0	0	0	0	0
SBG	LT	0	0	1030	1	0		0	0	0	0	0
SBG	JB	0	0	920	1	0		0	0	0	0	0
SBG	PD	0	0	420	1	0		0	0	0	0	0
SBG	PBR	0	0	530	1	0		0	0	0	0	0
SBG	SKN	0	0	830	1	0		0	0	0	0	0
SBG	AB	0	0	4520	1	0		0	0	0	0	0
SBG	TT	0	0	0	0	0		0	0	0	0	0
SBG	SON	0	0	0	0	0		0	0	0	0	0
SBG	JAP	0	0	0	0	0		0	0	0	0	0
SBG	MRK	0	0	0	0	0		0	0	0	0	0
LSM	BNA	11	11	220	1	0		0	0	0	0	0
LSM	PG	0	0	1590	1	0		0	0	0	0	0
LSM	TJK	0	0	1730	1	0		0	0	0	0	0
LSM	LT	0	0	1480	1	0		0	0	0	0	0
LSM	JB	0	0	1370	1	0		0	0	0	0	0
LSM	PD	0	0	870	1	0		0	0	0	0	0
LSM	PBR	0	0	980	1	0		0	0	0	0	0
LSM	SKN	0	0	1280	1	0		0	0	0	0	0
LSM	AB	0	0	4970	1	0		0	0	0	0	0
LSM	TT	0	0	0	0	0		0	0	0	0	0
LSM	SON	0	0	0	0	0		0	0	0	0	0

Table A-4-15 Toll Circuits Distribution for REPELITA-V (15/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
LSM	JAP	0	0	0	0	0		0	0	0	0	0
LSM	MRK	0	0	0	0	0		0	0	0	0	0
BNA	PG	0	0	1790	1	0		0	0	0	0	0
BNA	TJK	0	0	1930	1	0		0	0	0	0	0
BNA	LT	0	0	1680	1	0		0	0	0	0	0
BNA	JB	0	0	1570	1	0		0	0	0	0	0
BNA	PD	0	0	1070	1	0		0	0	0	0	0
BNA	PBR	0	0	1180	1	0		0	0	0	0	0
BNA	SKN	0	0	1480	1	0		0	0	0	0	0
BNA	AB	0	0	5170	1	0		0	0	0	0	0
BNA	TT	0	0	0	0	0		0	0	0	0	0
BNA	SON	0	0	0	0	0		0	0	0	0	0
BNA	JAP	0	0	0	0	0		0	0	0	0	0
BNA	MRK	0	0	0	0	0		0	0	0	0	0
PG	TJK	266	296	420	0.9	30		0	0	30	30	60
PG	LT	287	287	170	1	0		0	0	0	0	0
PG	JB	289	289	540	0.9	29		0	0	0	0	0
PG	PD	197	197	720	0.89	22		0	0	0	0	0
PG	PBR	112	146	970	0.765	34		0	0	34	34	60
PG	SKN	62	101	1270	0.615	39		0	0	39	39	60
PG	AB	43	43	3660	1	0		0	0	0	0	0
PG	TT	0	0	0	0	0		0	0	0	0	0
PG	SON	0	0	0	0	0		0	0	0	0	0
PG	JAP	0	0	0	0	0		0	0	0	0	0
PG	MRK	0	0	0	0	0		0	0	0	0	0
TJK	LT	0	0	310	1	0		0	0	0	0	0
TJK	JB	0	0	680	1	0		0	0	0	0	0
TJK	PD	0	0	860	1	0		0	0	0	0	0
TJK	PBR	0	0	1110	1	0		0	0	0	0	0
TJK	SKN	0	0	1410	1	0		0	0	0	0	0
TJK	AB	0	0	3260	1	0		0	0	0	0	0
TJK	TT	0	0	0	0	0		0	0	0	0	0
TJK	SON	0	0	0	0	0		0	0	0	0	0
TJK	JAP	0	0	0	0	0		0	0	0	0	0
TJK	MRK	0	0	0	0	0		0	0	0	0	0
LT	JB	0	0	430	1	0		0	0	0	0	0
LT	PD	0	0	610	1	0		0	0	0	0	0
LT	PBR	0	0	860	1	0		0	0	0	0	0
LT	SKN	0	0	1160	1	0		0	0	0	0	0
LT	AB	0	0	3550	1	0		0	0	0	0	0
LT	TT	0	0	0	0	0		0	0	0	0	0
LT	SON	0	0	0	0	0		0	0	0	0	0
LT	JAP	0	0	0	0	0		0	0	0	0	0
LT	MRK	0	0	0	0	0		0	0	0	0	0
JB	PD	22	22	500	1	0		0	0	0	0	0
JB	PBR	0	0	750	1	0		0	0	0	0	0
JB	SKN	0	0	1050	1	0		0	0	0	0	0
JB	AB	0	0	3920	1	0		0	0	0	0	0
JB	TT	0	0	0	0	0		0	0	0	0	0
JB	SON	0	0	0	0	0		0	0	0	0	0

Table A-4-16 Toll Circuits Distribution for REPELITA-V (16/16)

O-EXC	T-EXC	CCT-TERR	CCCT-MOD	LENGTH	RATIO	CCT-SAT	EXT-FDM	EXT-TDM	EXT-TTL	SAT-TTL	CCT-TDMA	TDMA
JB	JAP	0	0	0	0	0		0	0	0	0	0
JB	MRK	0	0	0	0	0		0	0	0	0	0
PD	PBR	20	39	250	1	0	24	0	19	19	0	0
PD	SKN	19	19	550	1	0		0	0	0	0	0
PD	AB	0	0	4100	1	0		0	0	0	0	0
PD	TT	0	0	0	0	0		0	0	0	0	0
PD	SON	0	0	0	0	0		0	0	0	0	0
PD	JAP	0	0	0	0	0		0	0	0	0	0
PD	MRK	0	0	0	0	0		0	0	0	0	0
PBR	SKN	22	22	300	1	0	0	0	0	0	0	0
PBR	AB	0	0	4350	1	0		0	0	0	0	0
PBR	TT	0	0	0	0	0		0	0	0	0	0
PBR	SON	0	0	0	0	0		0	0	0	0	0
PBR	JAP	0	0	0	0	0		0	0	0	0	0
PBR	MRK	0	0	0	0	0		0	0	0	0	0
SKN	AB	0	0	4650	1	0		0	0	0	0	0
SKN	TT	0	0	0	0	0		0	0	0	0	0
SKN	SON	0	0	0	0	0		0	0	0	0	0
SKN	JAP	0	0	0	0	0		0	0	0	0	0
SKN	MRK	0	0	0	0	0		0	0	0	0	0
AB	TT	0	0	0	0	0		0	0	0	0	0
AB	SON	0	0	0	0	0		0	0	0	0	0
AB	JAP	0	0	0	0	0		0	0	0	0	0
AB	MRK	0	0	0	0	0		0	0	0	0	0
TT	SON	0	0	0	0	0		0	0	0	0	0
TT	JAP	0	0	0	0	0		0	0	0	0	0
TT	MRK	0	0	0	0	0		0	0	0	0	0
SON	JAP	0	0	0	0	0		0	0	0	0	0
SON	MRK	0	0	0	0	0		0	0	0	0	0
JAP	MRK	0	0	0	0	0		0	0	0	0	0
TOTAL		16304	22295			4658	3336	3480	5651	5991	3488	4800
X'der							7					6





**ANNEX 5**

**TERRESTRIAL TRANSMISSION LINK  
IN REPELITA-V**



WITEL I

0 10 20 30 40 50 KM

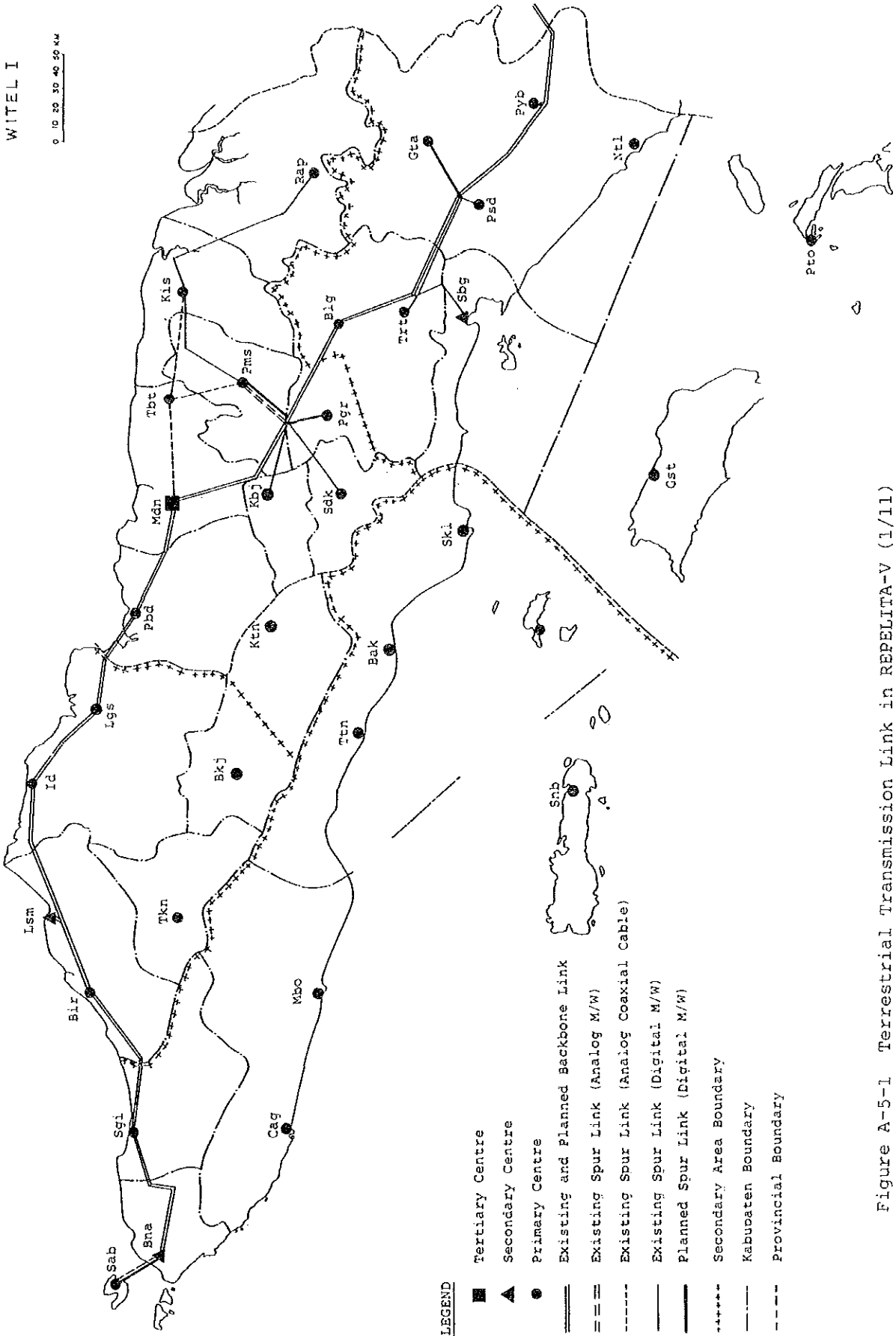


Figure A-5-1 Terrestrial Transmission Link in REPELITA-V (1/11)

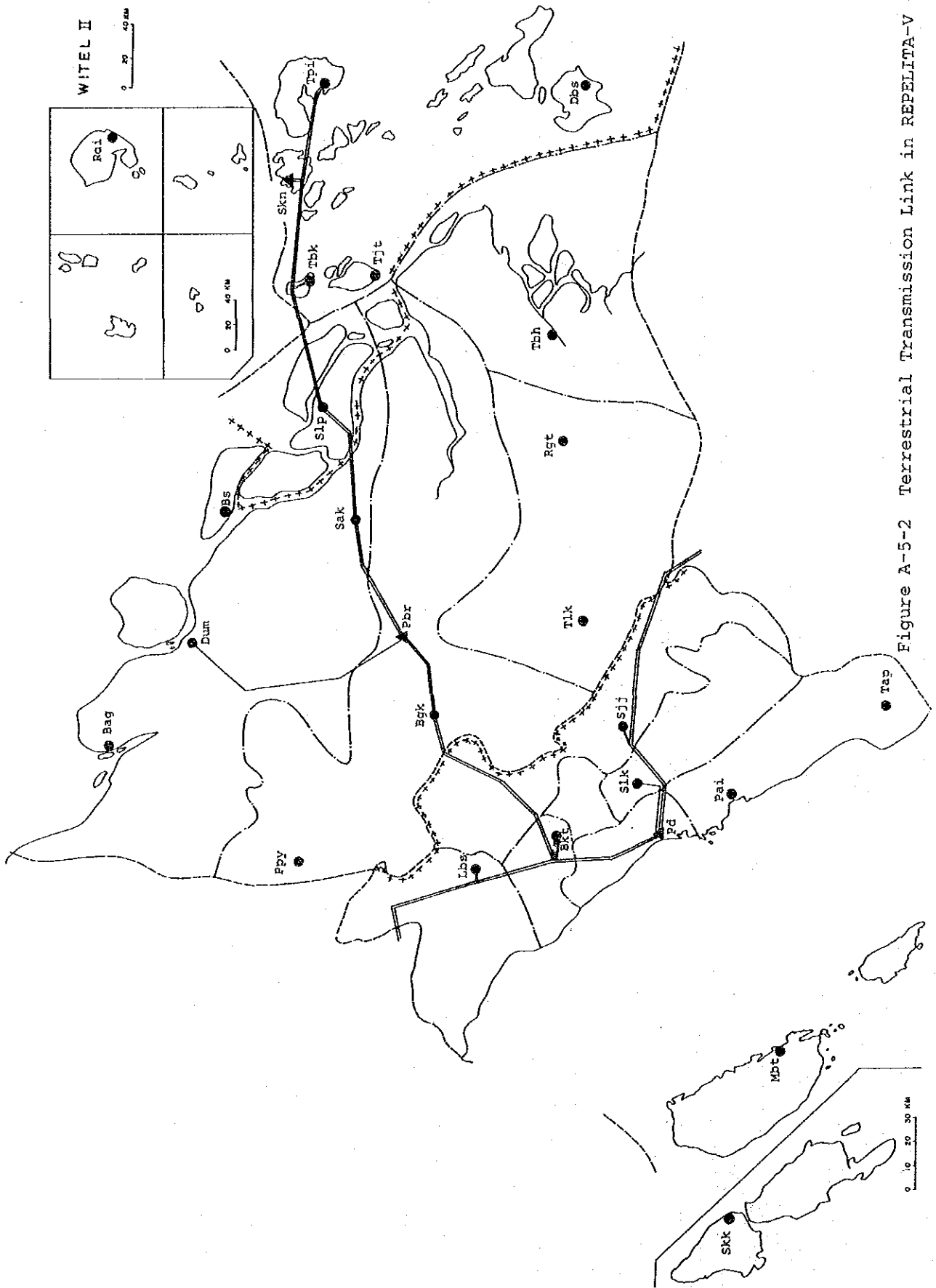
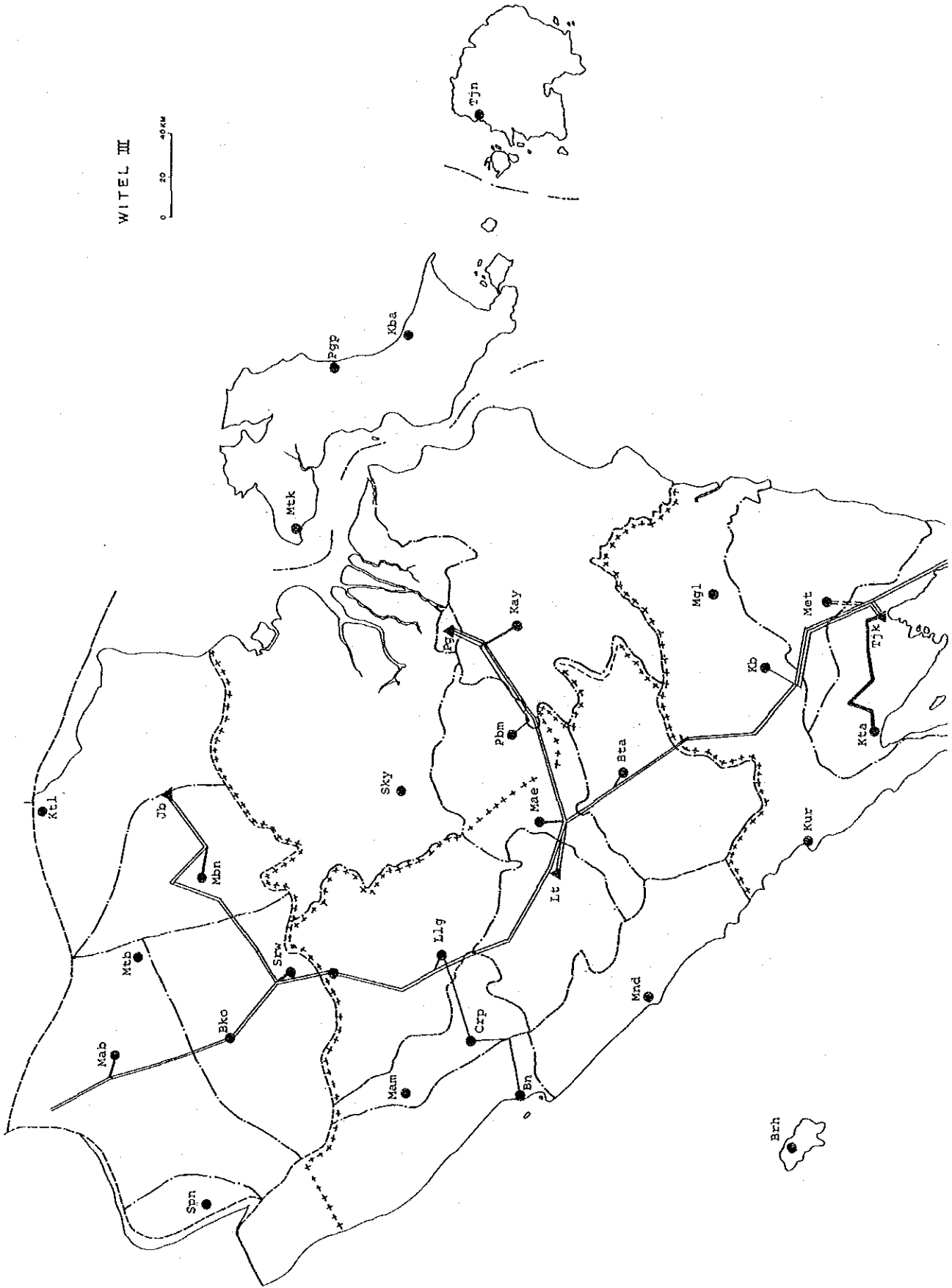


Figure A-5-2 Terrestrial Transmission Link in REPELITA-V (2/11)



WITEL III

0 20 40 KM

Figure A-5-3 Terrestrial Transmission Link in REPELITA-V (3/11)

WITEL IV,V

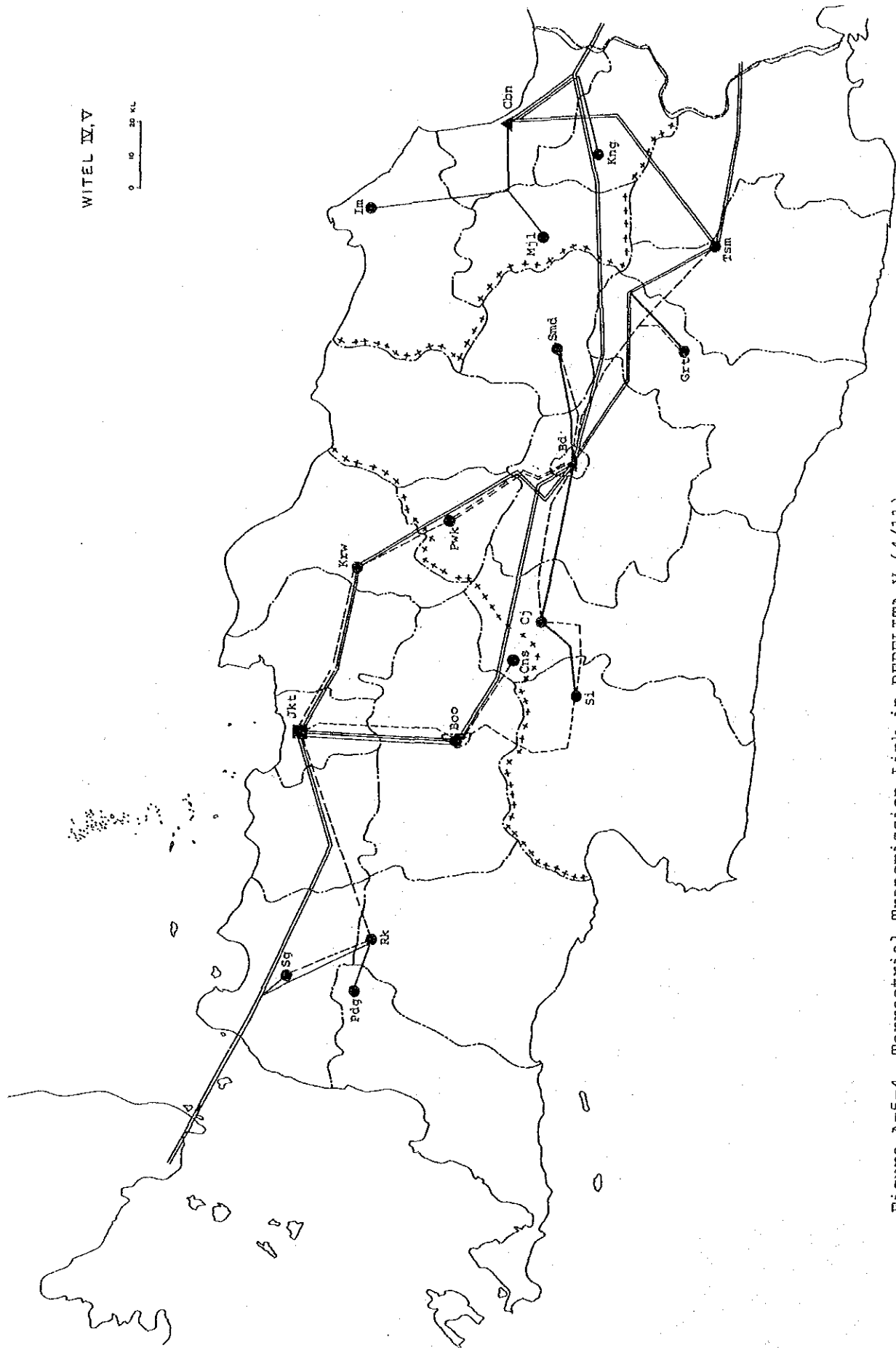
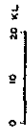


Figure A-5-4 Terrestrial Transmission Link in REPALITA-V (4/11)

WITEL VI

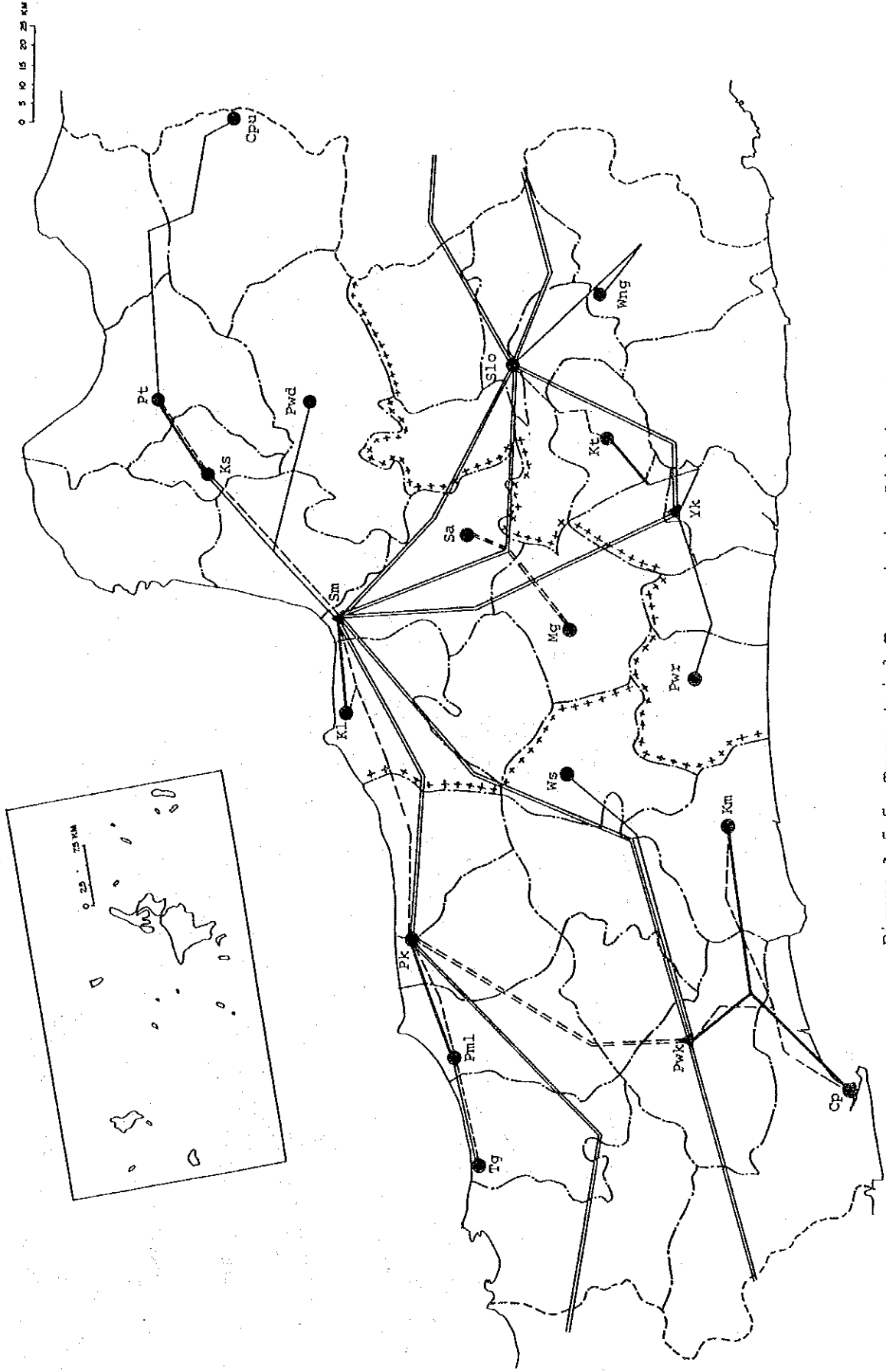


Figure A-5-5 Terrestrial Transmission Link in REPELITA-V (5/11)

WITEL VII

0 10 15 20 25 KM

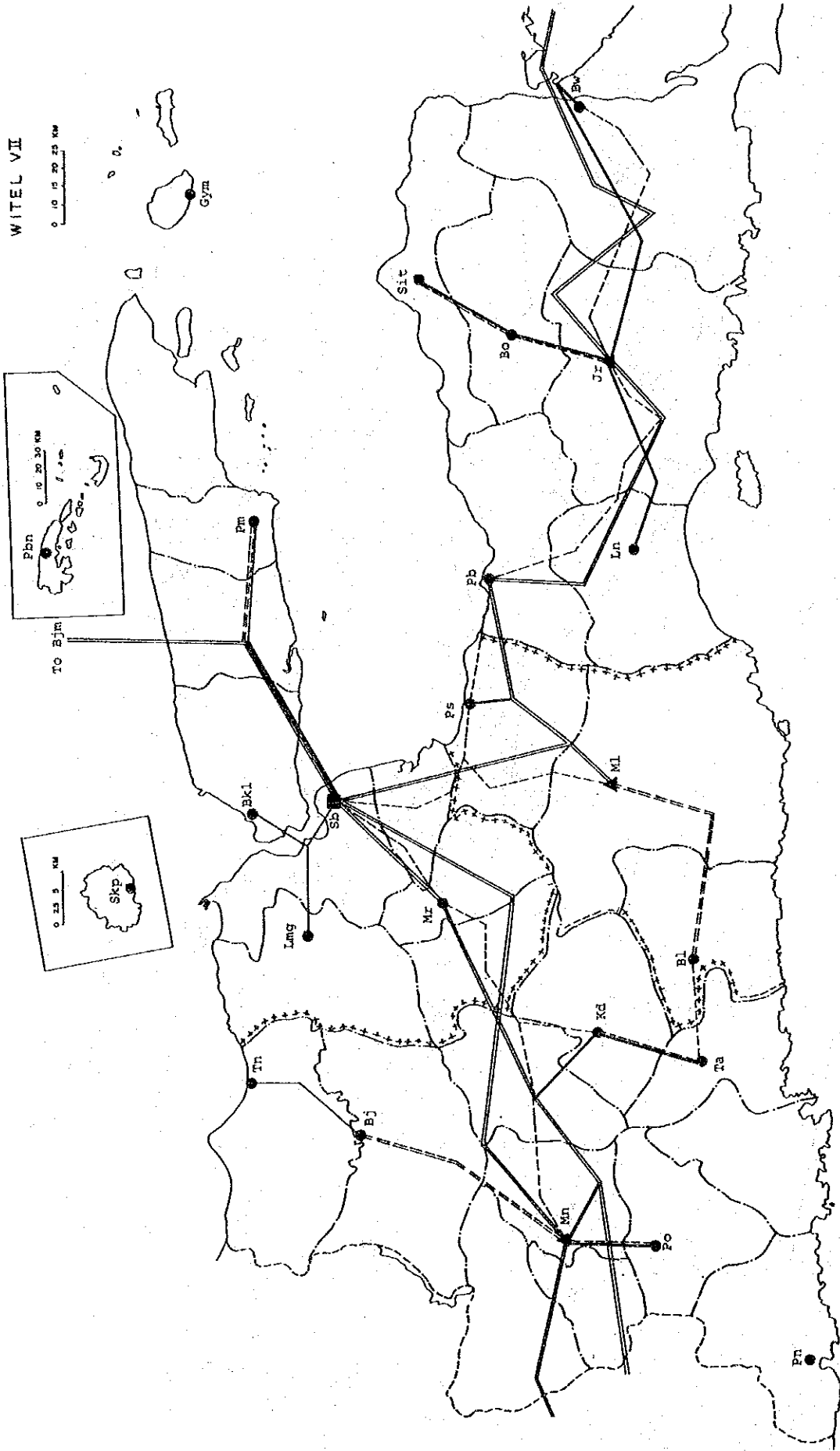


Figure A-5-6 Terrestrial Transmission Link in REPELITA-V (6/11)



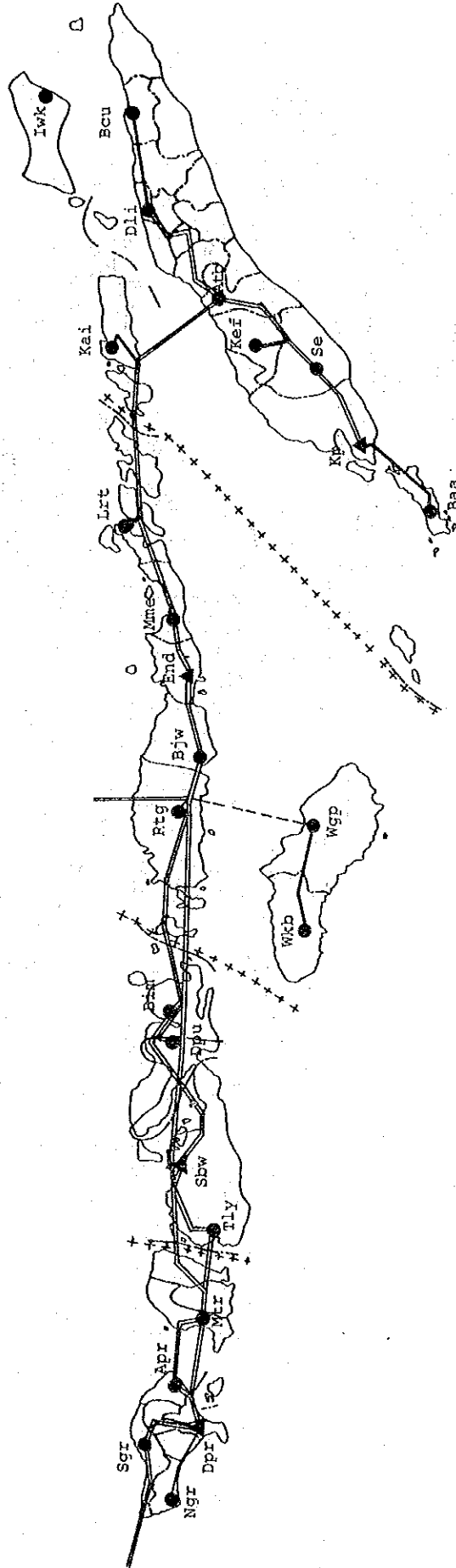


Figure A-5-7 Terrestrial Transmission Link in REPELITA-V (7/11)

WITEL IX

0 20 40 60 80 100 KM

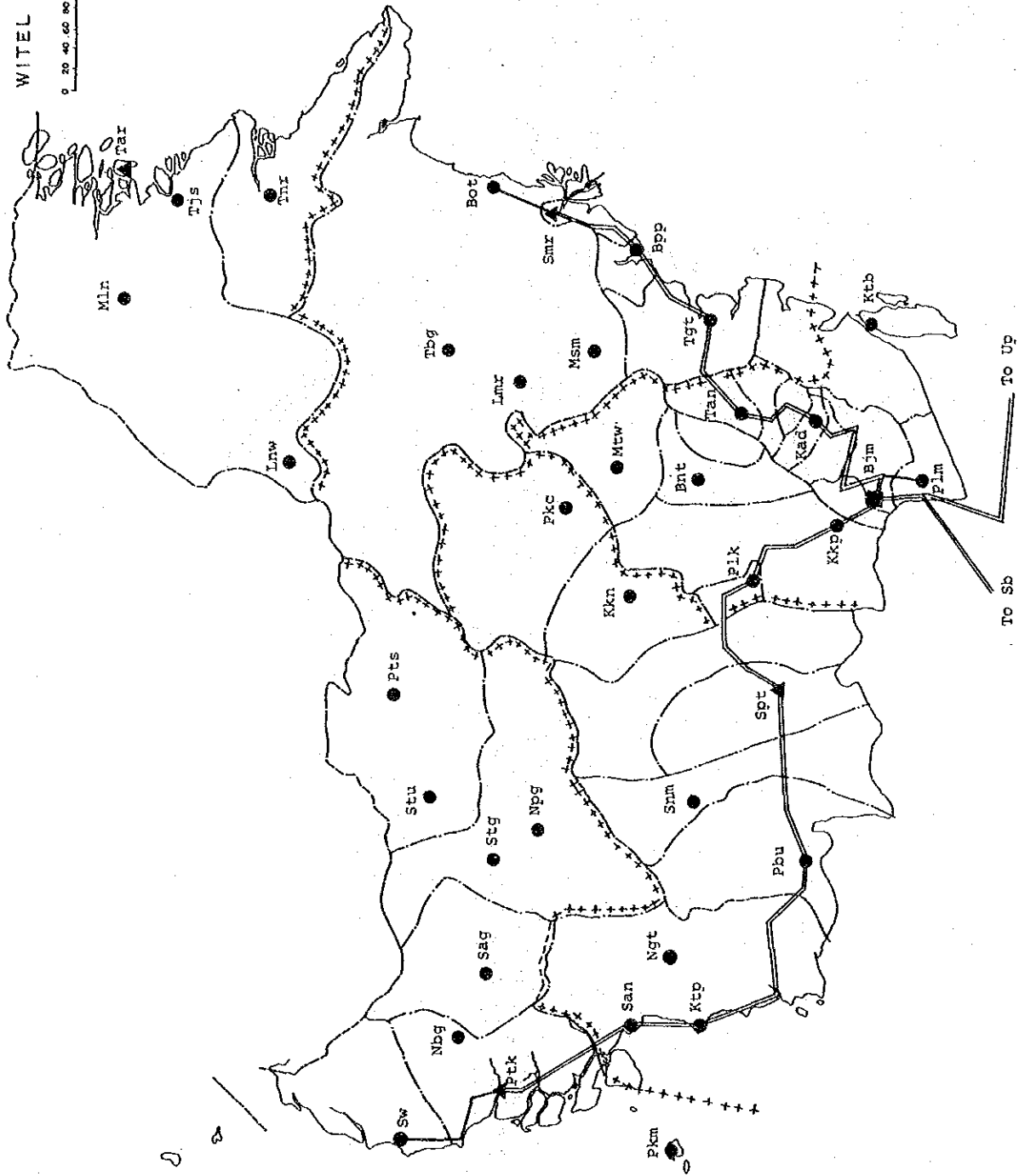


Figure A-5-8 Terrestrial Transmission Link in REPELITA-V (8/11)

WITEL X

0 50 KM

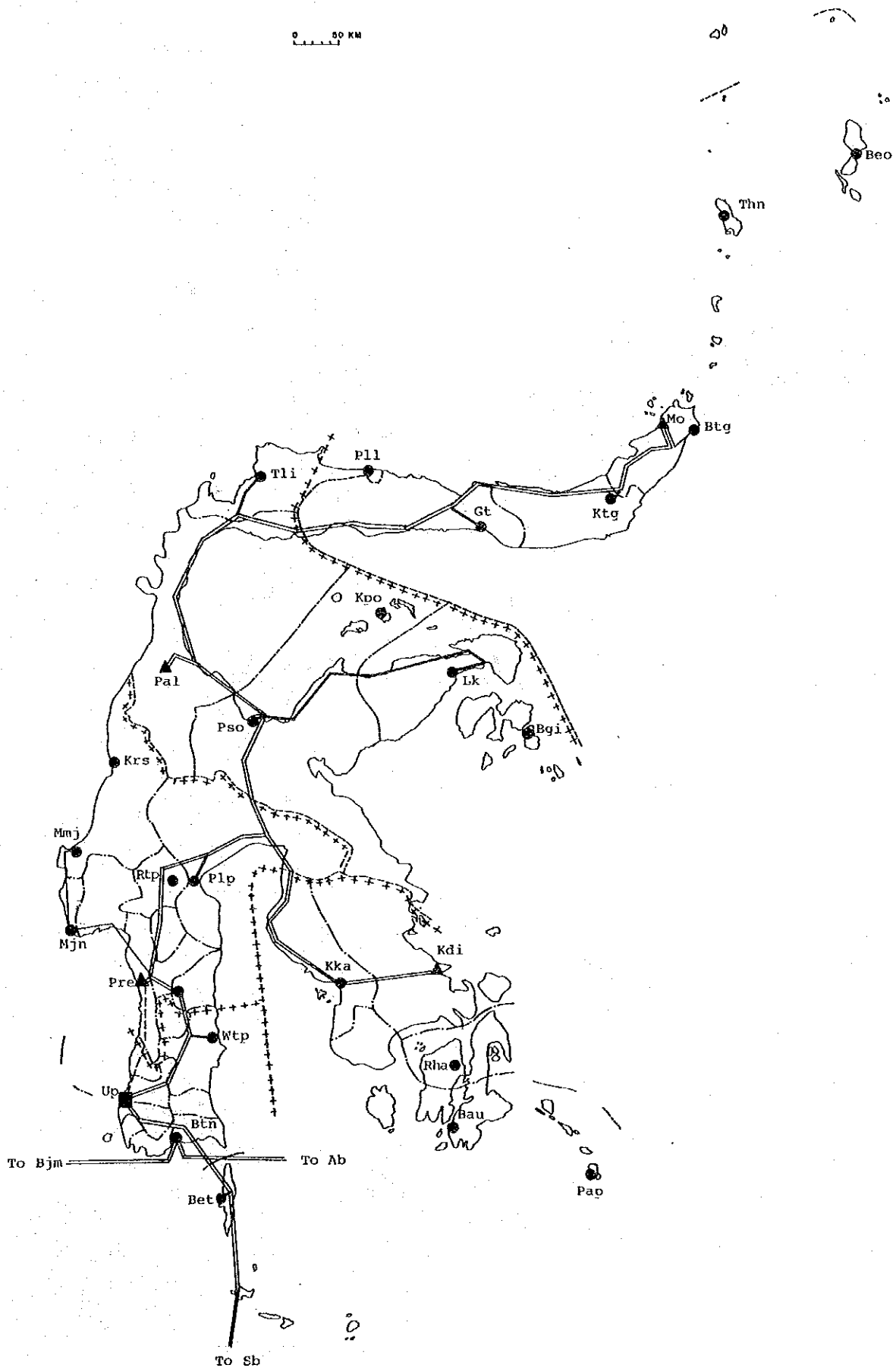


Figure A-5-9 Terrestrial Transmission Link in REPELITA-V (9/11)

WITEL XI

0 25 50 75 100 125 KM

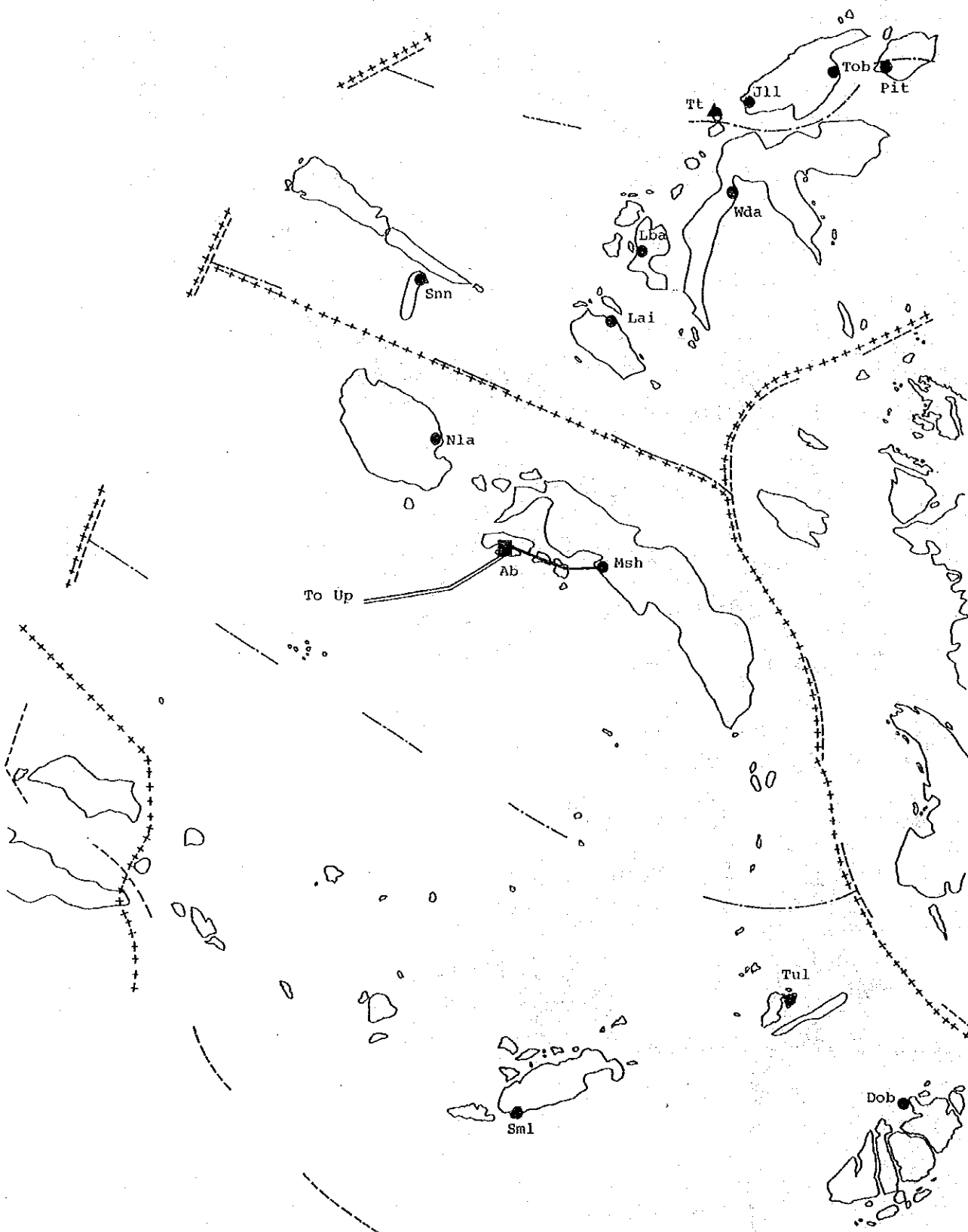


Figure A-5-10 Terrestrial Transmission Link in REPELITA-V (10/11)

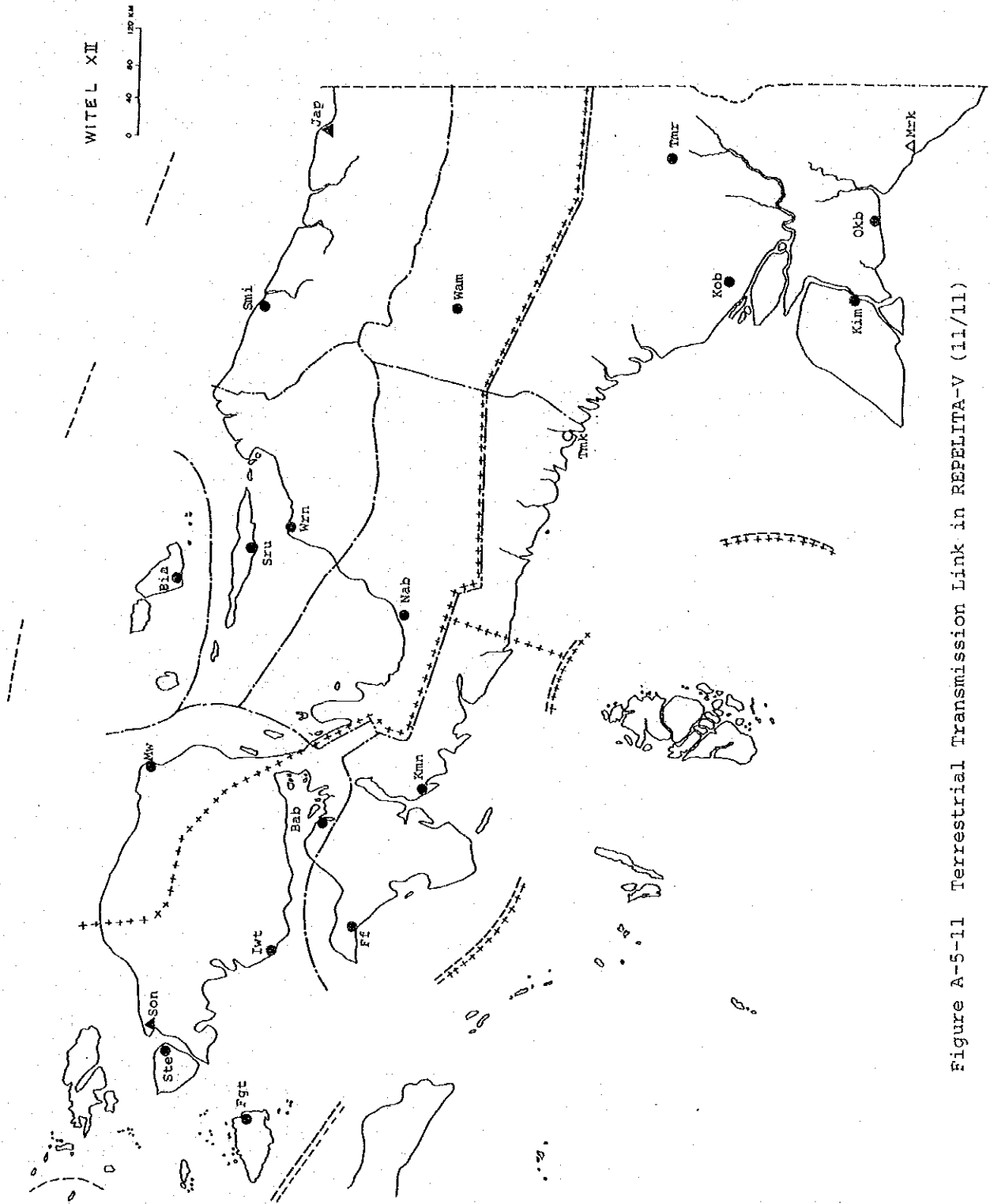


Figure A-5-11 Terrestrial Transmission Link in REFLITA-V (11/11)



**ANNEX 6**  
**MAIN PROJECT DIGESTS FOR**  
**REPELITA-V**





Project Digest (1)

1. Project Code : V-1
2. Project Title : Jakarta Local Switching System Expansion Project (Phase 1)
3. Location : WITEL-IV (Kotamadya)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Separate project by technical field
6. Project Description: Provision of telephone service facilities with 150,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Power plant
  - 3) Building and land
7. Implementation Time: 1989 - 1992 (3 years)
8. Priority : First
9. Remarks :

Project Digest (2)

1. Project Code : V-2
2. Project Title : Jakarta Local Switching System Expansion Project (Phase 2)
3. Location : WITEL-IV (Kotamadya and Kabupaten)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Separate project by technical field
6. Project Description: Provision of telephone service facilities with 175,000 L.U. including the following:  
165,000 L.U. in Kotamadya  
10,000 L.U. in Kabupaten
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Power plant
  - 3) Building and land
7. Implementation Time: 1991 - 1994 (3 years)
8. Priority : Second
9. Remarks :

Project Digest (3)

1. Project Code : V-3
2. Project Title : Jakarta Local Cable Network Expansion Project (Phase 1)
3. Location : WITEL IV (Kotamadya)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Separate project by technical field
6. Project Description: Provision of the local cable network for 150,000 L.U. new subscribers.
7. Implementation Time: 1989 - 1992 (3 years)
8. Priority : First
9. Remarks :

Project Digest (4)

1. Project Code : V-4
2. Project Title : Jakarta Local Cable Network Expansion Project (Phase 2)
3. Location : WITEL-IV (Kotamadya and Kabupaten)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Separate project by technical field
6. Project Description: Provision of the local cable network for 175,000 L.U. new subscribers.  
165,000 L.U. in Kotamadya  
10,000 L.U. in Kabupaten
7. Implementation Time: 1991 - 1994 (3 years)
8. Priority : Second
9. Remarks :

Project Digest (5)

1. Project Code : V-5
2. Project Title : Jakarta Junction Network Expansion Project
3. Location : WITEL-IV (Kotamadya and Kabupaten)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Separate project by technical field
6. Project Description: Provision of the junction network (PC-LE and LE-LE) for telephone service facilities including the following:
  - Optical fiber cable system
  - Microwave system
  - Cable PCM system
7. Implementation Time: 1989 - 1992 (3 years)
8. Priority : First
9. Remarks :

Project Digest (6)

1. Project Code : V-6
2. Project Title : Sumatera Kotamadya Local Telephone Network Expansion Project (I)
3. Location : WITEL I (Kotamadya)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 71,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : First
9. Remarks :

Project Digest (7)

1. Project Code : V-7
2. Project Title : Sumatera Kotamadya Local Telephone Network Expansion Project (II)
3. Location : WITEL II, III (Kotamadya)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 55,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Second
9. Remarks :

Project Digest (8)

1. Project Code : V-8
2. Project Title : Sumatera Kabupaten Local Telephone Network Expansion Project
3. Location : WITEL I, II, III (Kabupaten)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Expansion of the telephone network to all Kabupaten capitals and principal Kecamatan capitals.
  - 7) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 43,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Third
9. Remarks :



Project Digest (9)

1. Project Code : V-9
2. Project Title : Jawa Kotamadya Local Telephone Network Expansion Project (I)
3. Location : WITEL V. (Kotamadya)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 77,000 L.U. including the following:
  - 1) Digital switching system  
(for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : First
9. Remarks :

Project Digest (10)

1. Project Code : V-10
2. Project Title : Jawa Kotamadya Local Telephone Network Expansion Project (II)
3. Location : WITEL VI (Kotamadya)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 63,000 L.U. including the following:
  - 1) Digital switching system  
(for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Second
9. Remarks :

Project Digest (11)

1. Project Code : V-11
2. Project Title : Jawa Kotamadya Local Telephone Network Expansion Project (III)
3. Location : WITEL VII (Kotamadya)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 122,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : First
9. Remarks :

Project Digest (12)

1. Project Code : V-12
2. Project Title : Jawa Kabupaten Local Telephone Network Expansion Project
3. Location : WITEL V, VI, VII (Kabupaten)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Expansion of the telephone network to principal Kecamatan capitals.
  - 7) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 87,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Second
9. Remarks :

Project Digest (13)

1. Project Code : V-13
2. Project Title : Bali/Nusa Tenggara/Timor Timur Local Telephone Network Expansion Project
3. Location : WITEL VIII (Kabupaten)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Expansion of the telephone network to all Kabupaten capitals and principal Kecamatan capitals.
  - 7) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 41,000 L.U. including the following:
  - 1) Digital switching system  
(for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Third
9. Remarks :

Project Digest (14)

1. Project Code : V-14
2. Project Title : Kalimantan/Sulawesi Kotamadya Local Telephone Network Expansion Project
3. Location : WITEL IX, X (Kotamadya)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Expansion of the telephone network up to principal Kecamatan capitals.
  - 7) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 71,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Second
9. Remarks :

Project Digest (15)

1. Project Code : V-15
2. Project Title : Kalimantan/Sulawesi Kabupaten Local Telephone Network Expansion Project
3. Location : WITEL IX, X (Kabupaten)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Expansion of the telephone network to all Kabupaten capitals and principal Kecamatan capitals.
  - 7) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 30,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Third
9. Remarks :

Project Digest (16)

1. Project Code : V-16
2. Project Title : Maluku/Irian Jaya Local Telephone Expansion Network Expansion Project
3. Location : WIPTEL XI, XII (Kotamadya and Kabupaten)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Improvement of service grade.
  - 4) Promoting regional economic activities.
  - 5) Promoting national development program.
  - 6) Expansion of the telephone network up to principal Kecamatan capitals.
  - 7) Modernization of telecommunication facilities.
5. Project Type : Package project by area
6. Project Description: Provision of telephone service facilities with 15,000 L.U. including the following:
  - 1) Digital switching system (for local and toll switching systems)
  - 2) Local cable network
  - 3) Transmission system (PC-LE and LE-LE)
  - 4) Power plant
  - 5) Building and land
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Third
9. Remarks :



Project Digest (17)

1. Project Code : V-17
2. Project Title : Digital Toll Switching System Expansion Project
3. Location : 36 cities throughout Indonesia
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas.
  - 2) Improvement of the completion call rate.
5. Project Type : Separate project by technical field
6. Project Description: Expansion of toll switching capacity with approx. 30,000 circuits at most of TCs and SCs (36 centers).
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : First
9. Remarks : In the following SCs, the toll switching capacities planned for PELITA-IV will satisfy the requirement for REPELITA-V:
  - Jakarta
  - Cirebon
  - Medan
  - Padan

Project Digest (18)

1. Project Code : V-18
2. Project Title : Trans Sulawesi Digital Microwave System Project
3. Location : Throughout Sulawesi (Ujung Pandan, Pare Pare, Kendari, Palu, Mando, etc.)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas
  - 2) Improvement of the completion call rate
  - 3) TV program transmission by terrestrial system
5. Project Type : Separate project by technical field
6. Project Description: Provision of digital microwave system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land
    - Backbone transmission link: 1,800 km
    - Spur transmission link : 500 km
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : First
9. Remarks :

Project Digest (19)

1. Project Code : V-19
2. Project Title : Banjarmasin - Ujung Pandang Optical Fiber Submarine Cable System Project
3. Location : Kalimantan - Sulawesi
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas.
  - 2) Improvement of the completion call rate.
  - 3) TV program transmission by terrestrial system.
5. Project Type : Separate project by technical field
6. Project Description: Provision of optical fiber submarine cable system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land
  - Expansion of existing digital microwave system (Banjarmasin - Tasking, 70 km)
  - New construction of optical fiber submarine cable system (Tasking - Bantaeng, 700 km)
  - New installation of digital microwave system (Bantaeng - Ujung Pandang, 80 km)
7. Implementation Time: 1989 - 1992 (3 years)
8. Priority : First
9. Remarks :

Project Digest (20)

1. Project Code : V-20
2. Project Title : Trans Kalimantan Digital Microwave System Project
3. Location : South Kalimantan (Banjarmasin, Palangkanaya, Sampit, etc.)  
West Kalimantan (Pontianak, etc.)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas.
  - 2) Improvement of the completion call rate.
  - 3) TV program transmission by terrestrial system.
5. Project Type : Separate project by technical field
6. Project Description: Provision of digital microwave system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land
  - Backbone transmission link: 900 km
  - Spur transmission link : 150 km
7. Implementation Time: 1989 - 1993 (4 years)
8. Priority : Second
9. Remarks :

Project Digest (21)

1. Project Code : V-21
2. Project Title : East Indonesia Digital Microwave System Project
3. Location : Bali (Denpasar, etc.)  
Nusa Tenggara (Sumbawa Besar, Ende, Kupang, etc.)  
Timor Timur (Dili, etc.)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas
  - 2) Improvement of the completion call rate
  - 3) TV program transmission by terrestrial system
5. Project Type : Separate project by technical field
6. Project Description: Provision of digital microwave system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land
  - Backbone transmission link: 1,500 km
  - Spur transmission link : 400 km
7. Implementation Time: 1989 - 1993 (4 years)
8. Priority : Second
9. Remarks :

Project Digest (22)

1. Project Code : V-22
2. Project Title : Medan - Banda Aceh Digital Microwave System Project
3. Location : North Sumatera (Medan, Lhokseumawe, Banda Aceh, etc.)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas.
  - 2) Improvement of the completion call rate.
  - 3) TV program transmission by terrestrial system.
5. Project Type : Separate project by technical field
6. Project Description: Provision of digital microwave system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land
    - Backbone transmission link: 500 km
    - Spur transmission link : 50 km
7. Implementation Time: 1990 - 1993 (3 years)
8. Priority : Second
9. Remarks :

Project Digest (23)

1. Project Code : V-23
2. Project Title : Balikpapan - Samarinda Digital Microwave System Expansion Project
3. Location : East Kalimantan (Balikpapan, Samarinda, etc.)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas.
  - 2) Improvement of the completion call rate.
  - 3) TV program transmission by terrestrial system.
5. Project Type : Separate project by technical field
6. Project Description: Provision of digital microwave system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land
    - Backbone transmission link: 100 km
    - Spur transmission link : 100 km
7. Implementation Time: 1992 - 1994 (2 years)
8. Priority : Third
9. Remarks :

Project Digest (24)

1. Project Code : V-24
2. Project Title : Ujung Pandang - Ambon Optical Fiber Submarine Cable System Project
3. Location : Sulawesi - Maluku
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas.
  - 2) Improvement of the completion call rate.
  - 3) TV program transmission by terrestrial system.
5. Project Type : Separate project by technical field
6. Project Description: Provision of optical fiber submarine cable system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land
    - Expansion of digital microwave system (Ujung Pandang - Bantaeng, 70 km)
    - New installation of optical fiber submarine cable system (Bantaeng - Ambon, 1,100 km)
    - New installation of digital microwave system (Ambon - Masohi, 130 km)
7. Implementation Time: 1991 - 1994 (3 years)
8. Priority : Third
9. Remarks :



Project Digest (25)

1. Project Code : V-25
2. Project Title : Jawa Digital Spur Microwave System Project
3. Location : Throughout Jawa
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas
  - 2) Improvement of the completion call rate
  - 3) TV program transmission by terrestrial system
5. Project Type : Separate project by technical field
6. Project Description: Provision of digital microwave system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land

- Spur transmission link: 750 km
7. Implementation Time: 1989 - 1993 (4 years)
8. Priority : First
9. Remarks :

Project Digest (26)

1. Project Code : V-26
2. Project Title : Sumatera Digital Spur Microwave System Project
3. Location : Throughout Sumatera (excluding North Sumatera)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas
  - 2) Improvement of the completion call rate
  - 3) TV program transmission by terrestrial system
5. Project Type : Separate project by technical field
6. Project Description: Provision of digital microwave system including the following:
  - 1) Transmission system
  - 2) Power plant
  - 3) Building and land

- Spur transmission link: 350 km
7. Implementation Time: 1990 - 1994 (4 years)
8. Priority : Second
9. Remarks :

Project Digest (27)

1. Project Code : V-27
2. Project Title : Subscriber Radio System Project (Phase 1)
3. Location : Throughout Indonesia (first priority Kecamatan)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Development of the rural area
  - 2) Promoting regional economic activities.
  - 3) Promoting national development program.
  - 4) Provision of telephone service to principal Kecamatan capitals
  - 5) Modernization of telecommunication facilities.
5. Project Type : Separate project by technical field
6. Project Description: Provision of TDMA subscriber radio system with 5,000 L.U. including the following:
  - 1) Radio system
  - 2) Power plant
  - 3) Building and land
  - 4) Drop wires to subscribers
  - 5) Telephone sets
7. Implementation Time: 1989 - 1993 (4 years)
8. Priority : Second
9. Remarks :

Project Digest (28)

1. Project Code : V-28
2. Project Title : Subscriber Radio System Project (Phase 2)
3. Location : Throughout Indonesia (second priority Kecamatan)
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Development of the rural area
  - 2) Promoting regional economic activities.
  - 3) Promoting national development program.
  - 4) Provision of telephone service to principal Kecamatan capitals
  - 5) Modernization of telecommunication facilities.
5. Project Type : Separate project by technical field
6. Project Description: Provision of TDMA subscriber radio system with 5,000 L.U. including the following:
  - 1) Radio system
  - 2) Power plant
  - 3) Building and land
  - 4) Drop wires to subscribers
  - 5) Telephone sets
7. Implementation Time: 1990 - 1994 (4 years)
8. Priority : Third
9. Remarks :

Project Digest (29)

1. Project Code : V-29
2. Project Title : PALAPA C1 Launching Project
3. Location : -
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Promoting national development program.
  - 2) Provision of telephone service to all Kabupaten capitals and principal Kecamatan capitals.
  - 3) Modernization of telecommunication facilities.
  - 4) Promoting the dedicated telecommunication system development of transponder users in Indonesia.
  - 5) Promoting telecommunication development in ASEAN countries.
5. Project Type : Separate project by technical field
6. Project Description: - Production of PALAPA C1 and C2  
- Launching of PALAPA C1
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : First
9. Remarks : PALAPA C1 will be launched in 1991.

Project Digest (30)

1. Project Code : V-30
2. Project Title : TDMA Satellite Link Expansion Project
3. Location : Throughout Indonesia
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Expansion of SLDD service areas
  - 2) Improvement of the completion call rate
5. Project Type : Separate project by technical field
6. Project Description: Expansion of TDMA satellite links up to 4,800 channel capacities.
7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Second
9. Remarks :

Project Digest (31)

1. Project Code : V-31
2. Project Title : 50 Small Earth Stations Provision Project
3. Location : Throughout Indonesia
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
- 1) Improvement of service grade.
  - 2) Promoting regional economic activities.
  - 3) Promoting national development program.
  - 4) Provision of telephone service to all Kabupaten capitals and principal Kecamatan.
  - 5) Modernization of telecommunication facilities.

5. Project Type : Separate project by technical field

6. Project Description: - New installation of small earth stations (SBK):

Sumatera	10 SBK
Jawa	2 SBK
Timor Timur	1 SBK
Kalimantan	14 SBK
Sulawesi	9 SBK
Maluku	5 SBK
Irian Jaya	9 SBK

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Total 50 SBK

- Expansion of MODEM: 800 channels

7. Implementation Time: 1989 - 1994 (5 years)

8. Priority : Third

9. Remarks :

Project Digest (32)

1. Project Code : V-32
2. Project Title : 31 Small Earth Stations Relocation Expansion Project
3. Location : Throughout Indonesia
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
- 1) Improvement of service grade.
  - 2) Promoting regional economic activities.
  - 3) Promoting national development program.
  - 4) Provision of telephone service to all Kabupaten capitals and principal Kecamatan.
  - 5) Modernization of telecommunication facilities.

5. Project Type : Separate project by technical field

6. Project Description: Relocation of small earth stations (SBK)

Sumatera	13 SBK
Bali/Nusatenggara/Timor Timur	8 SBK
Kalimantan	5 SBK
Sulawesi	5 SBK

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Total 31 SBK

7. Implementation Time: 1989 - 1994 (5 years)

8. Priority : Third

9. Remarks :



Project Digest (33)

1. Project Code : V-33
2. Project Title : Packet Data Communication System (SKDP) Expansion Project
3. Location : Medan, Palembang, Jakarta, Bandung, Semarang, Surabaya, Denpasar and Batam Island
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Reduction of waiting period for new subscription.
  - 2) Improvement of service grade.
  - 3) Promoting regional economic activities.
5. Project Type : Separate project by service categories
6. Project Description: Expansion of SKDP up to the following capacities:

Name of city	Total capacity (L.U.)
Medan	200
Palembang	100
Jakarta	900
Bandung	200
Semarang	200
Surabaya	300
Denpasar	100
Batam Island	100
Total	2,100

7. Implementation Time: 1989 - 1992 (3 years)
8. Priority : First
9. Remarks :

Project Digest (34)

1. Project Code : V-34
2. Project Title : Radio Paging System Expansion Project
3. Location : 6 cities throughout Indonesia
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Promoting regional economic activities.
5. Project Type : Separate project by service categories
6. Project Description: Expansion of the radio paging system up to the following capacities:

Name of city	Paging L.U.
Jakarta	26,000
Surabaya	7,000
Bandung	4,000
Medan	4,000
Semarang	2,000
Ujung Pandang	2,000
Total	45,000

7. Implementation Time: 1989 - 1994 (5 years)
8. Priority : Second
9. Remarks :

Project Digest (35)

1. Project Code : V-35
2. Project Title : Land-Mobile Radiotelephone System Expansion Project
3. Location : Jakarta, Bandung, Semarang and Surabaya
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
- 1) Accommodation of the existing waiting applicants.
  - 2) Reduction of waiting period for new subscription.
  - 3) Promoting regional economic activities.
5. Project Type : Separate project by service categories
6. Project Description: Expansion of the land-mobile radiotelephone system up to the following capacities:
- | Name of city | Total Capacity (L.U.) |
|--------------|-----------------------|
| Jakarta      | 3,500                 |
| Bandung      | 1,500                 |
| Semarang     | 1,000                 |
| Surabaya     | 2,000                 |
| Total        | 8,000                 |
7. Implementation Time: 1991 - 1994 (3 years)
8. Priority : Third
9. Remarks :

Project Digest (36)

1. Project Code : V-36
2. Project Title : ISDN Pilot Project
3. Location : Jakarta
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Improvement of service grade.
  - 2) Promoting regional economic activities.
  - 3) Creation of the standard for ISDN new services.
  - 4) Investigation of the requirement from ISDN users.
5. Project Type : Separate project by service categories
6. Project Description: Provision of the narrow band ISDN model system.
7. Implementation Time: 1990 - 1993 (3 years)
8. Priority : Second
9. Remarks :

Project Digest (37)

1. Project Code : V-37
2. Project Title : Coin Telephone Sets Provision Project
3. Location : Principal cities throughout Indonesia
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Improvement of accessibility to telephone service.
  - 2) Promoting regional economic activities.
  - 3) Promoting national development program.
5. Project Type : Separate project by service categories
6. Project Description: Provision of 47,000 coin telephone sets as the following:

Zone	Booth Type	In-house Type
Sumatera	5,000	2,500
Jakarta	9,500	7,000
Jawa	9,000	7,000
Others	3,500	3,500
Total	27,000	20,000

7. Implementation Time: 1989 - 1992 (3 years)
8. Priority : First
9. Remarks :

Project Digest (38)

1. Project Code : V-38
2. Project Title : Local Cable Maintenance Center Project
3. Location : Jakarta
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Improvement utilization efficiency of the existing facilities.
  - 2) Improvement of repair capability for the local cable network.
  - 3) Accommodation of the existing waiting applicants.
  - 4) Reduction of waiting period for new subscription.
5. Project Type : Separate project by technical field
6. Project Description: Provision of local cable maintenance centers at the following locations in Jakarta:
  - Kota Area
  - Cempaka Putih Area
  - Jatinegara Area
  - Slipi Area
  - Kebayoran Area
7. Implementation Time: 1989 - 1993 (4 years)
8. Priority : First
9. Remarks :

Project Digest (39)

1. Project Code : V-39
2. Project Title : Local Cable Network Management Center Project
3. Location : Central cities in all WITELs
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Improvement utilization efficiency of the existing facilities.
  - 2) Improvement of repair capability for the local cable network.
  - 3) Accommodation of the existing waiting applicants.
  - 4) Reduction of waiting period for new subscription.
5. Project Type : Separate project by technical field
6. Project Description: Provision of 12 local cable network management centers to execute following works:
  - 1) Existing facility data management for each exchange
  - 2) Planning and execution of failure cable repair
  - 3) Storing of spare cables and materials
  - 4) PERUMTEL's construction for small cable network
  - 5) Guidance of facility maintenance to each exchange
7. Implementation Time: 1989 - 1993 (4 years)
8. Priority : First
9. Remarks :

Project Digest (40)

1. Project Code : V-40
2. Project Title : Education & Training Center Expansion Project
3. Location : 9 cities throughout Indonesia
4. Objectives : To fulfill and support the following requirements for the telephone and non-telephone services:
  - 1) Development of man power in PERUMTEL.
  - 2) Improvement of operating and maintenance capability in PERUMTEL
5. Project Type : Separate project
6. Project Description: Capacity expansion of the existing education and training facilities at the following locations:
  - Bandung
  - Jakarta
  - Semarang
  - Surabaya
  - Denpasar
  - Medan
  - Padang
  - Palembang
  - Ujung Pandang
7. Implementation Time: 1989 - 1992 (3 years)
8. Priority : First
9. Remarks :









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