

Table Project List (68 /)

Project Name					JKT-SB 1st Optic Transmission Expansion	
Objective Area					JKT-BD-PWT, YK, MN, SB	
Implementation Period					1998, 12Months	
Total Project Cost					M\$ 12.08	
Financial IRR					25.13%	
Fund Source						
No.	Implementation Unit No.	Supply			Cost Mil US\$	Remarks
		System	Volume	Unit		
1	Optic Fiber	STM-16	1+1	SYS	12.08	985Km
2						36 Stations

Table Project List (73/)

Project Name		Coin-Telephone Provision Project				
Objective Area		Throughout Indonesia				
Implementation Period		1994, 60Months				
Total Project Cost		170 Million US\$				
Financial IRR						
Fund Source						
No.	Implementation Unit No.	Supply			Cost Mil US\$	Remarks
		System	Volume	Unit		
1	Coin-Telephone	Card	50,000	SET	85.00	
2		Coin	50,000	SET	85.00	

Table Project List (75/)

Project Name		BD New Local Network				
Objective Area		Greater BD Area				
Implementation Period		1996, 36Months				
Total Project Cost		M\$ 292.81				
Financial IRR		24.77%				
Fund Source						
No.	Implementation Unit No.	Supply			Cost Mil US\$	Remarks
		System	Volume	Unit		
1	Switch	Local	400,000	LU	98.58	5 Exchanges
		Tandem	2,080	TRK	1.59	1 Exchange
		Trunk	4,690	TRK	2.17	1 Exchange
2	Transmission	Junc	8+8S	SYS	4.59	4 Sections
		SLJJ	3+3S	SYS	1.54	1 Section
3	Local	Cable	520,000	SSP	182.00	
4	Supporting	Land		M2	1.73	5 Sites
		Buil		M2	0.61	5 Exchanges

Table Project List (81 /)

Project Name			Paging (Area I)			
Objective Area			Sumatera Area			
Implementation Period			1995, 48Months			
Total Project Cost			M\$ 65.15			
Financial IRR						
Fund Source						
No.	Implementation Unit No.	Supply			Cost Mil US\$	Remarks
		System	Volume	Unit		
1	Paging	Radio	20	Area	56.00	
2		Terminal	61,000	Sub	9.15	

PROJECT DIGEST

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in MEDAN Area
2. Project Name : VI/I/01
3. Location : Medan
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Medan Area in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 82,380 LU
 - Trunk Switching System : 1,460 TRK
 - Outside Plant (Local Cable System) : 21,000 SSP
 - Radio Subscriber Telephone System : 44 SUB
 - Junction Network System : 6+5 SYS, 5 SECT
7. Implementation Time Schedule:

1996-1997 (24 months)
8. Project Cost : US\$ 34.62 Million

9. Amount Proposed for: US\$ 34.62 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
Preliminary study has been done.
12. Additional Information:
 - (a) Objective Exchange:
MDN-Centrum, MDN-Balai Kota, MDN-Tanjung Pura,
MDN-Belawan, MDN-Padang Bulan, MDN-Cintadamai
 - (b) Related Projects
-STDI-VII/B (D-VII/B)
-VI/I/02
-Trunk Transmission Project (MDN-BNA)
 - (c) Project Evaluation
Financial IRR : 41.46%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in MEDAN Area
2. Project Name : VI/I/02
3. Location : Medan
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Medan Area in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 52,150 LU
 - Outside Plant (Local Cable System) : 93,900 SSP
 - Radio Subscriber Telephone System : 63 SUB
 - Junction Network System : 2+1 SYS, 2 SECT
7. Implementation Time Schedule:

1997-1998 (12 months)
8. Project Cost : US\$ 50.62 Million including Land Cost US\$ 0.52 Million and Building Cost US\$ 0.15 Million.

9. Amount Proposed for: US\$ 49.69 Million
Commitment

10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Exchange:

MDN-Denai, Kuala, MDN-TJ Morewa,
MDN-Tuntungan, Stabit, Binjai Kuala

(B) Objective Sections of Junction Network

(c) Related Projects

-VI/I/01

-Trunk Transmission Project (MDN-BNA)

(d) Project Evaluation

Financial IRR : 20.15%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in WITEL-I Area (Northern Part of Sumatera)
2. Project Name : VI/I/03
3. Location : WITEL-I Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in WITEL-I Area in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	:69,906 LU
-Trunk Switching System	: 2,041 TRK
-Outside Plant (Local Cable System)	:88,510 SSP
-Radio Subscriber Telephone System	: 3,658 SUB
-Transmission Network System (FO, M/W)	:18+18 SYS
7. Implementation Time Schedule:

1995-1996 (24 months)
8. Project Cost : US\$ 105.25 Million
including Land Cost US\$ 0.84 Million
and Building Cost US\$ 0.08 Million.

9. Amount Proposed for: US\$ 104.33 Million
Commitment

10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Primary Center (PC):

LSM, TBT, PYB, BLG, PSP, SNB, PKB, LGS, CAG, MBO,
KBJ, TRT, PGR, BPD, TKN, TTN

(b) Related Projects

-Trunk Transmission Project (MDN-BNA)

(c) Project Evaluation

Financial IRR : 7.93%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in WITEL-I Area (Northern Part of Sumatera)
2. Project Name : VI/I/04
3. Location : WITEL-I Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in WITEL-I Area in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System :43,643 LU
- Trunk Switching System : 1,513 TRK
- Outside Plant (Local Cable System) :21,090 SSP
- Radio Subscriber Telephone System : 2,952 SUB
- Transmission Network System (FO, M/W):21+19 SYS

7. Implementation Time Schedule:

1997-1998 (24 months)

8. Project Cost : US\$ 74.09 Million
including Land Cost US\$ 1.07 Million
and Building Cost US\$ 0.13 Million.

9. Amount Proposed for: US\$ 72.89 Million
Commitment

10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Primary Center (PC):

BIR, KIS, SGI, BAK, SKL, SGB, RAP, PPT, KTN, PMS,
BNA, BKJ, SDK, ID

(b) Related Projects

-Trunk Transmission Project (MDN-BNA)

(c) Project Evaluation

Financial IRR : 5.28%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Central Part of Sumatera (WITEL-II Area)
2. Project Name : VI/II/01
3. Location : WITEL-II Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Central Part of Sumatera (WITEL-II Area) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	:39,372 LU
-Trunk Switching System	: 3,760 TRK
-Outside Plant (Local Cable System)	:59,490 SSP
-Radio Subscriber Telephone System	: 4,537 SUB
-Junction Network System(FO-155M)	:3+3 SYS, 2 SECT
-Transmission System(FO/MW)	:12 SECT, 19 HOPS
7. Implementation Time Schedule:

1995-1996 (24 months)
8. Project Cost : US\$ 74.81 Million including Land Cost US\$ 2.62 Million and Building Cost US\$ 0.3 Million.

9. Amount Proposed for: US\$ 71.89 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange(PC) Areas:
PD, SJJ, DBS, LBS, RGT, SLK, TBN, TLK, RGK, SAK,
TJT, TPI, SLP, BLS, DUM, BS, PAI
- (b) Related Projects
-STDI-VII/B (D-VII/B)
-Trunk Transmission Project(MDN-BNA)
- (c) Project Evaluation
Financial IRR : 4.99%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Central Part of Sumatera (WITEL-II Area)
2. Project Name : VI/II/02
3. Location : WITEL-II Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Central Part of Sumatera (WITEL-II Area) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	:78,006 LU
-Trunk Switching System	: 3,507 TRK
-Outside Plant (Local Cable System)	:81,730 SSP
-Radio Subscriber Telephone System	: 4,338 SUB
-Junction Network System(FO-155M)	:2+2 SYS, 2 SECT
-Transmission System(FO/MW)	:8 SECT, 10 HOPS
7. Implementation Time Schedule:

1996-1997 (36 months)
8. Project Cost : US\$ 85.72 Million
including Land Cost US\$ 0.6 Million
and Building Cost US\$ 0.19 Million.

9. Amount Proposed for: US\$ 84.93 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required.
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange(PC) Areas:
BKT, BAG, RAI, PBR, MBT, SKN, TJT
 - (b) Related Projects
 - STDI-VII/B (D-VII/B)
 - Trunk Transmission Project(MDN-BNA)
 - (c) Project Evaluation
Financial IRR : 15.02%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Southern Part of Sumatera (WITEL-III Area)
2. Project Name : VI/III/01
3. Location : WITEL-III Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Southern Part of Sumatera (WITEL-III Area) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	:42,378 LU
-Trunk Switching System	: 518 TRK
-Outside Plant (Local Cable System)	:64,659 SSP
-Radio Subscriber Telephone System	: 5,463 SUB
-Transmission System(FO/MW)	:21+19 SYS
7. Implementation Time Schedule:

1995-1996 (24 months)
8. Project Cost : US\$ 100.11 Million
including Land Cost US\$ 2.0 Million
and Building Cost US\$ 0.22 Million.

9. Amount Proposed for: US\$ 97.89 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange(PC) Areas:
SKY, LT, BTA, KTA, MET, BKO, PGP, KAY, CRP, CPR,
KTL, MBN, MAE, MAB, SPN
 - (b) Related Projects
 - STDI-VII/B (D-VII/B)
 - Trunk Transmission Project(MDN-BNA)
 - (c) Project Evaluation
Financial IRR :-1.02%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Southern Part of Sumatera (WITEL-III Area)
2. Project Name : VI/III/02
3. Location : WITEL-III Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Southern Part of Sumatera (WITEL-III Area) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 91,780 LU
- Trunk Switching System : 5,408 TRK
- Outside Plant (Local Cable System): 114,649 SSP
- Radio Subscriber Telephone System : 1,128 SUB
- Transmission System(FO/MW) : 7+6 SYS
- Junction Network System(11G-140M) : 1 SYS, 1 SECT
- Junction Network System(FO/MW) : 3+2 SYS, 4 SECT

7. Implementation Time Schedule:

1996-1997 (24 months)

8. Project Cost : US\$ 84.48 Million
 including Land Cost US\$ 0.52 Million
 and Building Cost US\$ 0.05 Million.
9. Amount Proposed for: US\$ 99.89 Million
 Commitment
10. Related to Technical : Engineering Servises by
 Assistance Local/Foreign Consultants to be
 required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Primary Exchange(PC) Areas:

LT, PG, LLG, TJK

(b) Related Projects

-STDI-VII/B (D-VII/B)

-Trunk Transmission Project(MDN-BNA)

(c) Evaluation of the Project

Financial IRR : 21.0%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Southern Part of Sumatera (WITEL-III Area)
2. Project Name : VI/III/03
3. Location : WITEL-III Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Southern Part of Sumatera (WITEL-III Area) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 52,100 LU
- Trunk Switching System : 905 TRK
- Outside Plant (Local Cable System): 88,590 SSP
- Radio Subscriber Telephone System : 1,583 SUB
- Transmission System(FO/MW) : 14+14 SYS, 10 SECT,
11 HOPS
- Junction Network System(FO-155M): 4+4 SYS, 4SECT

7. Implementation Time Schedule:

1998-1999 (12 months)

8. Project Cost : US\$ 75.97 Million
including Land Cost US\$ 2.01 Million
and Building Cost US\$ 0.25 Million
9. Amount Proposed for: US\$ 73.71 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange(PC) Areas:
BN, AGM, MNA, LIW, JB, KB, TJT, PBM, KLA
- (b) Related Projects
-STDI-VII/B (D-VII/B)
-Trunk Transmission Project(MDN-BNA)
- (c) Evaluation of the Project
Financial IRR : 9.73%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Northern Part of Jakarta Area (WITEL-IV, KANDATEL UTARA)
2. Project Name : VI/IV/U/01
3. Location : WITEL-IV, KANDATEL UTARA Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Northern Part of Jakarta Area (WITEL-IV, KANDATEL UTARA) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	:78,000 LU
-Tandem Switching System	: 8,000 TRK
-Outside Plant (Local Cable System)	:26,900 SSP
7. Implementation Time Schedule:

1996	(12 months)
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8. Project Cost : US\$ 36.41 Million

9. Amount Proposed for: US\$ 36.41 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
 - (a) Objective Exchanges:
Kota-I, Kota-II, and Cilincing
 - (b) Related Projects
-STDI-2
-Jakarta Junction Network Project
 - (c) Evaluation of the Project
Financial IRR : 50.28%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Northern Part of Jakarta Area (WITEL-IV, KANDATEL UTARA)
2. Project Name : VI/IV/U/02
3. Location : WITEL-IV, KANDATEL UTARA Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Northern Part of Jakarta Area (WITEL-IV, KANDATEL UTARA) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 63,000 LU
 - Outside Plant (Local Cable System): 92,250 SSP
7. Implementation Time Schedule:

1996 (12 months)
8. Project Cost : US\$ 67.71 Million
including Land Cost US\$ 14.85 Million
and Building Cost US\$ 0.42 Million.

9. Amount Proposed for: US\$ 52.44 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
 - (a) Objective Exchanges:
Pademangan, Muara Karang and Suntar
 - (b) Related Projects
-STDI-2
-Jakarta Junction Network Project
 - (c) Evaluation of the Project
Financial IRR : 21.0%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Northern Part of Jakarta Area (WITEL-IV, KANDATEL UTARA)
2. Project Name : VI/IV/U/03
3. Location : WITEL-IV, KANDATEL UTARA Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Northern Part of Jakarta Area (WITEL-IV, KANDATEL UTARA) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System :50,000 LU
 - Outside Plant (Local Cable System):27,500 SSP
7. Implementation Time Schedule:

1996 - 1998 (36 months)
8. Project Cost : US\$ 25.16 Million

9. Amount Proposed for: US\$ 25.16 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
 - (a) Objective Exchanges:
Kota-I, and Tanjung Priok
 - (b) Related Projects
Jakarta Junction Network Project
 - (c) Evaluation of the Project
Financial IRR : 34.14%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Central Part of Jakarta Area (WITEL-IV, KANDATEL PUSAT)
2. Project Name : VI/IV/P/01
3. Location : WITEL-IV, KANDATEL PUSAT Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Central Part of Jakarta Area (WITEL-IV, KANDATEL PUSAT) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 80,000 LU
 - Outside Plant (Local Cable System):108,340 SSP
7. Implementation Time Schedule:

1995	(12 months)
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8. Project Cost : US\$ 55.02 Million
9. Amount Proposed for: US\$ 55.02 Million
Commitment

10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required.

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Exchanges:

Gambir II

(b) Related Projects

-Jakarta Junction Network Project

(c) Evaluation of the Project

Financial IRR : 35.13%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Central Part of Jakarta Area (WITEL-IV, KANDATEL PUSAT)
2. Project Name : VI/IV/P/02
3. Location : WITEL-IV, KANDATEL PUSAT Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Central Part of Jakarta Area (WITEL-IV, KANDATEL PUSAT) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	:106,000 LU
-Tandem Switching System	: 2,000 TRK
-Outside Plant (Local Cable System):	82,670 SSP
7. Implementation Time Schedule:

1996 - 1998	(36 months)
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8. Project Cost : US\$ 58.32 Million
9. Amount Proposed for: US\$ 58.32 Million
Commitment

10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Exchanges:

Cempaka Putih, and Gambir I

(b) Related Projects

-Jakarta Junction Network Project

(c) Evaluation of the Project

Financial IRR : 31.93%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Southern Part of Jakarta Area (WITEL-IV, KANDATEL SELATAN)
2. Project Name : VI/IV/S/01
3. Location : WITEL-IV, KANDATEL SELATAN Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Southern Part of Jakarta Area (WITEL-IV, KANDATEL SELATAN) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 62,000 LU
 - Outside Plant (Local Cable System):169,490 SSP
7. Implementation Time Schedule:

1995 - 1997 (36 months)
8. Project Cost : US\$ 83.08 Million
 Including Land Cost US\$ 2.35 Million
 and Building Cost US\$ 0.25 Million.

9. Amount Proposed for: US\$ 80.48 Million
Commitment

10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Exchanges:

Serpong Puspitek, Gunung Sindur, Parang,
Jagakarsa, Cinere, Depok-I, Sepong(BSD)

(b) Related Projects

-STDI-2 Project

-Jakarta Junction Network Project

(c) Evaluation of the Project

Financial IRR : 11.88%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Southern Part of Jakarta Area (WITEL-IV, KANDATEL SELATAN)
2. Project Name : VI/IV/S/02
3. Location : WITEL-IV, KANDATEL SELATAN Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Southern Part of Jakarta Area (WITEL-IV, KANDATEL SELATAN) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 88,000 LU
 - Outside Plant (Local Cable System):102,680 SSP
7. Implementation Time Schedule:

1996 (12 months)
8. Project Cost : US\$ 62.64 Million
Including Land Cost US\$ 0.99 Million
and Building Cost US\$ 0.28 Million.

9. Amount Proposed for: US\$ 61.37 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
 - (a) Objective Exchanges:
Kebayoran Bintaro, Ciledug, Cipete, Depok-II
 - (b) Related Projects
-STDI-2 Project
-Jakarta Junction Network Project
 - (c) Evaluation of the Project
Financial IRR : 34.17%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Southern Part of Jakarta Area (WITEL-IV, KANDATEL SELATAN)
2. Project Name : VI/IV/S/03
3. Location : WITEL-IV, KANDATEL SELATAN Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Southern Part of Jakarta Area (WITEL-IV, KANDATEL SELATAN) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System :120,000 LU
 - Tandem Switching System : 8,000 TRK
 - Outside Plant (Local Cable System): 57,120 SSP
7. Implementation Time Schedule:

1995 - 1998 (48 months)
8. Project Cost : US\$ 57.58 Million
Including Land Cost US\$ 0.39 Million
and Building Cost US\$ 0.04 Million.

9. Amount Proposed for: US\$ 57.15 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
 - (a) Objective Exchanges:
Pasar Minggu, Kebayoran, Kalibata-I, Kalibata-II
Bojong Gede, Ciputat Parang,
 - (b) Related Projects
-STDI-2 Project
-Jakarta Junction Network Project
 - (c) Evaluation of the Project
Financial IRR : 50.28%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Western Part of Jakarta Area (WITEL-IV, KANDATEL BARAT)
2. Project Name : VI/IV/B/01
3. Location : WITEL-IV, KANDATEL BARAT Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Western Part of Jakarta Area (WITEL-IV, KANDATEL BARAT) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 89,156 LU
 - Outside Plant (Local Cable System):139,370 SSP
7. Implementation Time Schedule:

1995 - 1996 (24 months)
8. Project Cost : US\$ 83.21 Million
Including Land Cost US\$ 1.08 Million
and Building Cost US\$ 0.11 Million.

9. Amount Proposed for: US\$ 82.02 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Exchanges:

Palmerah, Rajeg, Parung Pnajang, Runpin, Sepatan,
Mauk, Teluk Naga, Cisoka, Pasar Kemis, Meruya and
Kedoya

(b) Related Projects

-STDI-2 Project

-Jakarta Junction Network Project

(c) Evaluation of the Project

Financial IRR : 21.73%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Western Part of Jakarta Area (WITEL-IV, KANDATEL BARAT)
2. Project Name : VI/IV/B/02
3. Location : WITEL-IV, KANDATEL BARAT Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Western Part of Jakarta Area (WITEL-IV, KANDATEL BARAT) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 75,100 LU
 - Outside Plant (Local Cable System): 119,800 SSP
7. Implementation Time Schedule:

1996 - 1997 (12 months)
8. Project Cost : US\$ 64.68 Million
Including Land Cost US\$ 1.36 Million
and Building Cost US\$ 0.14 Million.

9. Amount Proposed for: US\$ 63.18 Million
Commitment

10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Exchanges:

Kresek, Cengkareng, Kronjo, Legok, Jati Uwang,
Balaraja, Cikupa, Curug, Cipondoh, JIA Cengkareng

(b) Related Projects

-STDI-3 Project
PBH-2/3 Project

-Jakarta Junction Network Project

(c) Evaluation of the Project

Financial IRR : 27.52%

PROJECT DIGEST

- 1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Western Part of Jakarta Area (WITEL-IV, KANDATEL BARAT)
- 2. Project Name : VI/IV/B/03
- 3. Location : WITEL-IV, KANDATEL BARAT Area
- 4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
- 5. Objectives : to improve and expand local telecommunications network in Western Part of Jakarta Area (WITEL-IV, KANDATEL BARAT) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network
- Replacement of Existing Analog Trunk Switching System to Digital Trunk Switching System, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 88,600 LU
- Trunk Switching System : 12,400 TRK
- Outside Plant (Local Cable System):100,810 SSP

7. Implementation Time Schedule:

1996 - 1998 (36 months)

8. Project Cost : US\$ 63.93 Million
Including Land Cost US\$ 0.99 Million
and Building Cost US\$ 0.08 Million.

9. Amount Proposed for: US\$ 62.86 Million
Commitment

10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Exchanges:

Semanggi-1, Semanggi-2, Tangerang, Tegal Alur,
Tigaraksa, Slipi

(b) Related Projects

-STDI-2/3 Project

-Jakarta Junction Network Project

(c) Evaluation of the Project

Financial IRR : 25.02%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Eastern Part of Jakarta Area (WITEL-IV, KANDATEL TIMUR)
2. Project Name : VI/IV/T/01
3. Location : WITEL-IV, KANDATEL TIMUR Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Eastern Part of Jakarta Area (WITEL-IV, KANDATEL TIMUR) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 92,300 LU
 - Outside Plant (Local Cable System):143,550 SSP
7. Implementation Time Schedule:

1995 - 1996 (24 months)

8. Project Cost : US\$ 80.98 Million
Including Land Cost US\$ 2.63 Million
and Building Cost US\$ 0.29 Million.
9. Amount Proposed for: US\$ 78.06 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:

(a) Objective Exchanges:

Cisalak, Gandaria, Cibinong, Tebet, Cibubur,
Cibitung, Cibarusah, Tanbelang, Lemah Abang,
Pebayuran, Cariu, Sukatani, Cabangbungin, Muara
Gembong, Serang, Citeureup, Jonggol, Bantar
Gebang, Bekasi-3(Utara), Kelender, Bekasi-2(Timur)

(b) Related Projects

-STDI-3 Project

-Jakarta Junction Network Project

(c) Evaluation of the Project

Financial IRR : 23.16%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Eastern Part of Jakarta Area (WITEL-IV, KANDATEL TIMUR)
2. Project Name : VI/IV/T/02
3. Location : WITEL-IV, KANDATEL TIMUR Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Eastern Part of Jakarta Area (WITEL-IV, KANDATEL TIMUR) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 39,000 LU
 - Outside Plant (Local Cable System):119,620 SSP
7. Implementation Time Schedule:

1996 - 1997 (12 months)

8. Project Cost : US\$ 53.60 Million
Including Land Cost US\$ 0.23 Million
and Building Cost US\$ 0.03 Million.
9. Amount Proposed for: US\$ 53.34 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Exchanges:
Cawang, Kelapa Gading, Tarumajaya, Jatinegara-1,
Bekasi-1 (Barat), Pasar Rebo
- (b) Related Projects
-STDI-3 Project
-Jakarta Junction Network Project
- (c) Evaluation of the Project
Financial IRR : 12.38%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Eastern Part of Jakarta Area (WITEL-IV, KANDATEL TIMUR)
2. Project Name : VI/IV/T/03
3. Location : WITEL-IV, KANDATEL TIMUR Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Eastern Part of Jakarta Area (WITEL-IV, KANDATEL TIMUR) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 24,500 LU
 - Outside Plant (Local Cable System): 74,400 SSP
7. Implementation Time Schedule:

1996 - 1998 (36 months)

8. Project Cost : US\$ 41.30 Million
Including Land Cost US\$ 0.12 Million
and Building Cost US\$ 0.01 Million.
9. Amount Proposed for: US\$ 41.17 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Exchanges:

Jatinegara-2, Rawamangun, Kranggan, Cileungsi,
Cikarang, Gunung Putri, Penggilingan, Pondok Gede,
Pondok Kelapa, Kelapa Gading

(b) Related Projects

-STDI-2/3 Project
-Jakarta Junction Network Project

(c) Evaluation of the Project

Financial IRR : 7.33%

PROJECT DIGEST

1. Project Title : Project for Expansion and Extension of The Jakarta Junction Network
2. Project Name : JKT Junction Network
3. Location : Jakarta Multi-exchange Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and extend the Jakarta Junction Network in Jakarta Multi-exchange Area in order to meet the junction traffic estimated at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the junction network, and
- Testing

(b) Technical Component and Scope of Works:

Transmission System :

FO-620M	;	100+100 Systems,	38 Sections
FO-155M	;	5+5 Systems,	4 Sections
FO-140M	;	10 Systems,	9 Sections

7. Implementation Time Schedule:

1995 - 1998 (48 months)

8. Project Cost : US\$ 49.20 Million
9. Amount Proposed for: US\$ 49.20 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required.
11. Stage of Project Preparation:
12. Additional Information:

(a) Related Projects

-STDI-2/3 Project

-Jakarta Local Telecommunications Network Projects
(VI/IV/U/01 - 03, VI/IV/P/01 - 02, VI/IV/S/01-
03, VI/IV/B/01 - 03, VI/IV/T/01 - 03)

(b) Evaluation of the Project

Financial IRR : 23.87%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Bandung Multi-exchanges Area (WITEL-V Area)
2. Project Name : VI/V/01
3. Location : Bandung multi-exchange Area(WITEL-V)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Bandung Multi-exchanges Area(WITEL-V) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 88,700 LU
 - Trunk Switching System : 11,154 TRK
 - Outside Plant (Local Cable System):134,160 SSP
7. Implementation Time Schedule:

1995-1996 (12 months)
8. Project Cost : US\$ 74.09 Million

9. Amount Proposed for: US\$ 74.09 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Exchange Areas:
Bandung Centrum, Bandung Gegerkalong, Bandung
Kopo, Banjaran
- (b) Related Projects
-Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)
- (c) Evaluation of the Project
Financial IRR : 24.01%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Bandung Multi-exchanges Area (WITEL-V Area)
2. Project Name : VI/V/02
3. Location : Bandung Multi-exchange Area(WITEL-V)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Bandung Multi-exchanges Area(WITEL-V) in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 41,380 LU
 - Outside Plant (Local Cable System): 32,350 SSP
 - Transmission System(FO/MW) : 9+7 SYS, 8 SECT, 2 HOPS
7. Implementation Time Schedule:

1995-1996 (12 months)
8. Project Cost : US\$ 34.90 Million including Land Cost US\$ 0.3 Million and Building Cost US\$ 0.03

9. Amount Proposed for: US\$ 34.57 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:

(a) Objective Exchange Areas:

Cikalong Wetan, Santosa, Bandung Utara, Cicalengka
Ciwidey, Gunung Halu, Pangalengan, Dayeuh Kolot,
Bandung Ujung Berung, Majalaya, Padalarang,
Lembang

(b) Related Projects

-Trunk Transmission Project (J-B M/W EXP)
(JK-SB FO-1/2)

(c) Evaluation of the Project

Financial IRR : 24.09%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Western Part of Jawa Island (WITEL-V Area)
2. Project Name : VI/V/03
3. Location : WITEL-V Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Western Part of Jawa Island (WITEL-V) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 83,099 LU
- Trunk Switching System : 1,512 TRK
- Outside Plant (Local Cable System): 97,080 SSP
- Radio Subscriber : 946 SUB
- Transmission System(FO/MW) : 24+16 SYS, 16 SECT,
19 HOPS

7. Implementation Time Schedule:

1995-1996 (12 months)

8. Project Cost : US\$ 89.30 Million
including Land Cost US\$ 0.26 Million
and Building Cost US\$ 0.02
9. Amount Proposed for: US\$ 89.02 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
KNG, SG, PWK, PK, MJL, TSM, KRW, SMD, PMP
 - (b) Related Projects
-Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)
 - (c) Evaluation of the Project
Financial IRR : 17.45%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Western Part of Jawa Island (WITEL-V Area)
2. Project Name : VI/V/04
3. Location : WITEL-V Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Western Part of Jawa Island (WITEL-V) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 86,882 LU
- Trunk Switching System : 1,760 TRK
- Outside Plant (Local Cable System): 113,450 SSP
- Radio Subscriber : 672 SUB
- Transmission System(FO/MW) : 11+10 SYS, 14 SECT,
4 HOPS

7. Implementation Time Schedule:

1995-1996 (24 months)

8. Project Cost : US\$ 94.22 Million
 including Land Cost US\$ 0.14 Million
 and Building Cost US\$ 0.04
9. Amount Proposed for: US\$ 93.86 Million
 Commitment
10. Related to Technical : Engineering Services by
 Assistance Local/Foreign Consultants to be
 required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
 CJ, BOO, CBN, IM
- (b) Related Projects
 -Trunk Transmission Project(J-B M/W EXP)
 (JK-SB FO-1/2)
 -STDI-VII/B Project
- (c) Evaluation of the Project
 Financial IRR : 15.25%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Bandung Barat Exchange at WITEL-V Area
2. Project Name : VI/V/05
3. Location : Bandung Barat Exchange, WITEL-V
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Bandung Barat Exchange at WITEL-V, in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 82,760 LU
 - Outside Plant (Local Cable System):109,130 SSP
7. Implementation Time Schedule:

1997-1998 (12 months)
8. Project Cost : US\$ 61.01 Million

9. Amount Proposed for: US\$ 61.01 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
 - (a) Related Projects
 - Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)
 - (c) Evaluation of the Project
 - Financial IRR : 28.80%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Bandung Multi-exchanges Area (WITEL-V Area)
2. Project Name : VI/V/06
3. Location : Bandung Multi-exchanges Area (WITEL-V)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Bandung Multi-exchange Area (WITEL-V), in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System :101,190 LU
 - Outside Plant (Local Cable System):134,700 SSP
7. Implementation Time Schedule:

1995-1997 (36 months)
8. Project Cost : US\$ 73.47 Million

9. Amount Proposed for: US\$ 73.47 Million
Commitment

10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required

11. Stage of Project Preparation:

12. Additional Information:

(a) Related Projects

-Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)

(c) Evaluation of the Project

Financial IRR : 22.27%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Bandung Multi-exchanges Area (WITEL-V Area)
2. Project Name : VI/V/07
3. Location : Bandung Multi-exchanges Area (WITEL-V)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Bandung Multi-exchange Area (WITEL-V), in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	: 60,073 LU
-Trunk Switching System	: 810 TRK
-Outside Plant (Local Cable System):	89,890 SSP
7. Implementation Time Schedule:

1995-1997 (36 months)
8. Project Cost : US\$ 50.03 Million

9. Amount Proposed for: US\$ 50.03 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
 - (a) Related Projects
 - Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)
 - (c) Evaluation of the Project
 - Financial IRR : 19.21%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Western Part of Jawa Island (WITEL-V Area)
2. Project Name : VI/V/08
3. Location : WITEL-V Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Western Part of Jawa Island (WITEL-V) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System :41,810 LU
- Trunk Switching System : 492 TRK
- Outside Plant (Local Cable System):48,090 SSP
- Radio Subscriber : 538 SUB
- Transmission System(FO/MW) :14+14 SYS, 13 SECT,
2 HOPS

7. Implementation Time Schedule:

1997-1998 (12 months)

8. Project Cost : US\$ 116.77 Million
including Land Cost US\$ 0.26 Million
and Building Cost US\$ 0.02
9. Amount Proposed for: US\$ 116.49 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
SI, GRT, PDG, SG, SIG, KRW
- (b) Related Projects
-Trunk Transmission Project (J-B M/W EXP)
(JK-SB FO-1/2)
-STDI-VII/B Project
- (c) Evaluation of the Project
Financial IRR : -4.26%

PROJECT DIGEST

- 1. Project Title : Project for Expansion and Extension of The Junction Network in Bandung Multi-Exchange Area
- 2. Project Name : BD Junction Network
- 3. Location : Bandung Multi-exchange Area
- 4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
- 5. Objectives : to expand and extend the Jakarta Junction Network in Bandung Multi-exchange Area in order to meet the junction traffic estimated at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the junction network, and
- Testing

(b) Technical Component and Scope of Works:

Transmission System :

FO-620M	;	16+16 Systems,	12 Sections
FO-155M	;	1+ 1 Systems,	1 Sections
FO-140M	;	1 Systems,	1 Sections

7. Implementation Time Schedule:

1995 - 1997 (36 months)

8. Project Cost : US\$ 11.20 Million
9. Amount Proposed for: US\$ 11.20 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:

(a) Related Projects

-STDI-1, Phase VII-B Project

-Bandung Local Telecommunications Network Projects
(VI/V/01, VI/V/02, VI/V/03, VI/V/04, VI/V/05,
VI/V/06, VI/V/07, VI/V/08)

(b) Evaluation of the Project

Financial IRR :15.40%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Semarang Multi-exchange Area (WITEL-VI Area)
2. Project Name : VI/VI/01
3. Location : Semarang Multi-exchange Area (WITEL-VI)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Semarang Multi-exchange Area (WITEL-VI) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System :117,110 LU
- Trunk Switching System : 2,470 TRK
- Outside Plant (Local Cable System):158,190 SSP
- Radio Subscriber : 73 SUB
- Transmission System(FO/MW) :2+2 SYS, 2 SECT
- Junction Network Sysytem (FO) :6+4 SYS, 6 SECT

7. Implementation Time Schedule:

1996-1997 (12 months)

8. Project Cost : US\$ 106.0 Million
including Land Cost US\$ 1.03 Million
and Building Cost US\$ 0.12
9. Amount Proposed for: US\$ 104.85 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
SI, GRT, PDG, SG, SIG, KRW
 - (b) Related Projects
 - Trunk Transmission Project (J-B M/W EXP)
(JK-SB FO-1/2)
 - STDI-VII/B Project
 - (c) Evaluation of the Project
Financial IRR : 24.85%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Central Part of Jawa Island (WITEL-VI Area)
2. Project Name : VI/VI/02
3. Location : WITEL-VI Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Central Part of Jawa Island (WITEL-VI) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 88,660 LU
- Trunk Switching System : 2,850 TRK
- Outside Plant (Local Cable System):113,770 SSP
- Radio Subscriber : 73 SUB
- Transmission System(FO/MW) :13+9 SYS, 14 SECT,
9 HOPS
- Junction Network System :3+2 SYS, 3 SECT

7. Implementation Time Schedule:

1995-1997 (36 months)

8. Project Cost : US\$ 110.3 Million
including Land Cost US\$ 0.81 Million
and Building Cost US\$ 0.19
9. Amount Proposed for: US\$ 109.3 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
KT, WNG, SLD, YK,
 - (b) Related Projects
 - Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)
 - STDI-I, Phase VII/B Project
 - (c) Evaluation of the Project
Financial IRR :12.42%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Central Part of Jawa Island (WITEL-VI Area)
2. Project Name : VI/VI/03
3. Location : WITEL-VI Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Central Part of Jawa Island (WITEL-VI) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 77,486 LU
- Trunk Switching System : 2,564 TRK
- Outside Plant (Local Cable System): 91,580 SSP
- Radio Subscriber : 1,938 SUB
- Transmission System(FO/MW) : 22+17 SYS, 21 SECT,
7 HOPS

7. Implementation Time Schedule:

1995-1996 (12 months)

8. Project Cost : US\$ 128.10 Million
including Land Cost US\$ 0.29 Million
and Building Cost US\$ 0.07
9. Amount Proposed for: US\$ 127.74 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
PWR, PK, KL, TG, PWT, PT, BLA, SA
- (b) Related Projects
-Trunk Transmission Project (J-B M/W EXP)
(JK-SB FO-1/2)
- (c) Evaluation of the Project
Financial IRR : 8.94%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Central Part of Jawa Island (WITEL-VI Area)
2. Project Name : VI/VI/04
3. Location : WITEL-VI Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Central Part of Jawa Island (WITEL-VI) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System :57,913 LU
- Trunk Switching System : 913 TRK
- Outside Plant (Local Cable System):51,680 SSP
- Radio Subscriber : 279 SUB
- Transmission System(FO/MW) :16+15 SYS, 13 SECT,
6 HOPS

7. Implementation Time Schedule:

1996-1998 (36 months)

8. Project Cost : US\$ 78.28 Million
 including Land Cost US\$ 0.22 Million
 and Building Cost US\$ 0.06
9. Amount Proposed for: US\$ 78.0 Million
 Commitment
10. Related to Technical : Engineering Services by
 Assistance Local/Foreign Consultants to be
 required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
 CP, KS, PWD, KM, BYL, WS, MG, PML
- (b) Related Projects
 -Trunk Transmission Project(J-B M/W EXP)
 (JK-SB FO-1/2)
 -STDI-I, Phase VII-B Project
- (c) Evaluation of the Project
 Financial IRR : 9.10%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Surabaya Multi-exchanges Area (WITEL-VII Area)
2. Project Name : VI/VII/01
3. Location : Surabaya Multi-exchanges Area (WITEL-VII)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Surabaya Multi-exchange Area (WITEL-VII), in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 58,670 LU
 - Trunk Switching System : 4,738 TRK
 - Outside Plant (Local Cable System): 81,200 SSP
7. Implementation Time Schedule:

1995-1996 (12 months)
8. Project Cost : US\$ 48.39 Million

9. Amount Proposed for: US\$ 48.39 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Exchanges:
SBY Kebalen, SBY Darmo, SBY Bambi, SBY Injoko, SBY
Kalianak
 - (a) Related Projects
 - Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)
 - Surabaya Local Telecommunications Network Expansion
Projects (VI/VII/02-04)
 - (c) Evaluation of the Project
Financial IRR :32.14%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Surabaya Multi-exchanges Area (WITEL-VII Area)
2. Project Name : VI/VII/02
3. Location : Surabaya Multi-exchanges Area (WITEL-VII)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Surabaya Multi-exchange Area (WITEL-VII), in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Local Switching System : 81,552 LU
 - Trunk Switching System : 0 TRK
 - Outside Plant (Local Cable System): 80,540 SSP
7. Implementation Time Schedule:

1996-1997 (12 months)
8. Project Cost : US\$ 50.69 Million

9. Amount Proposed for: US\$ 50.69 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Exchanges:
SBY Kapasan, SBY Manyar, SBY Kandangan, SBY
Karangpilang, SBY Kenjeran
 - (a) Related Projects
 - Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)
 - Surabaya Local Telecommunications Network Expansion
Projects (VI/VII/01-04)
 - (c) Evaluation of the Project
Financial IRR :43.59%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Surabaya Multi-exchanges Area (WITEL-VII Area)
2. Project Name : VI/VII/03
3. Location : Surabaya Multi-exchanges Area (WITEL-VII)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Surabaya Multi-exchange Area (WITEL-VII), in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	: 98,060 LU
-Trunk Switching System	: 0 TRK
-Outside Plant (Local Cable System)	:154,170 SSP
-Junction Network System (FO)	:14+3 SYS, 12 SECT
7. Implementation Time Schedule:

1996-1997 (12 months)
8. Project Cost : US\$ 84.59 Million

9. Amount Proposed for: US\$ 84.59 Million
Commitment
10. Related to Technical Assistance : Engineering Services by
Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Exchanges:
SBY Rungkut I, SBY Rungkut II, SBY TJ.Perak, SBY
Mergoyoso, SBY Waru I, SBY Waru II, SBY Tandes)
 - (b) Related Projects
 - Trunk Transmission Project(J-B M/W EXP)
(JK-SB FO-1/2)
 - Surabaya Local Telecommunications Network Expansion
Projects (VI/VII/01-04)
 - (c) Evaluation of the Project
Financial IRR :30.99%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Surabaya Multi-exchanges Area (WITEL-VII Area)
2. Project Name : VI/VII/04
3. Location : Surabaya Multi-exchanges Area (WITEL-VII)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Surabaya Multi-exchange Area (WITEL-VII), in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the local telecommunications network, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Local Switching System	: 64,700 LU
-Trunk Switching System	: 0 TRK
-Outside Plant (Local Cable System)	: 95,120 SSP
-Radio Subscriber	: 490 SUB
7. Implementation Time Schedule:

1996-1997 (12 months)
8. Project Cost : US\$ 53.83 Million

9. Amount Proposed for: US\$ 53.83 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Exchanges:
- Bangkalan, Sidoarjo, SBY Sepanjang, Sidoarjo
Gedangan, Kriyan, Gresik SBY
- (b) Related Projects
- Trunk Transmission Project (J-B M/W EXP)
(JK-SB FO-1/2)
- Surabaya Local Telecommunications Network Expansion
Projects (VI/VII/01-03)
- (c) Evaluation of the Project
- Financial IRR : 32.39%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Eastern Part of Jawa Island (WITEL-VII Area)
2. Project Name : VI/VII/05
3. Location : WITEL-VII Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Eastern Part of Jawa Island (WITEL-VII) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 82,950 LU
- Trunk Switching System : 3,379 TRK
- Outside Plant (Local Cable System): 69,410 SSP
- Radio Subscriber : 2,098 SUB
- Transmission System(FO/MW) : 18+17 SYS, 17 SECT,
5 HOPS

7. Implementation Time Schedule:

1995-1996 (24 months)

8. Project Cost : US\$ 91.62 Million
9. Amount Proposed for: US\$ 91.62 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
BO, TN, MN, JR, MR, PO, PN, KD, NGK, BJ, LMG,
- (b) Related Projects
-Trunk Transmission Project (J-B M/W EXP)
(JK-SB FO-1/2)
-STDI-I, Phase VII-B Project
- (c) Evaluation of the Project
Financial IRR : 20.07%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Eastern Part of Jawa Island (WITEL-VII Area)
2. Project Name : VI/VII/06
3. Location : WITEL-VII Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Eastern Part of Jawa Island (WITEL-VII) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 68,981 LU
- Trunk Switching System : 1,588 TRK
- Outside Plant (Local Cable System): 90,360 SSP
- Radio Subscriber : 2,087 SUB
- Transmission System(FO/MW) : 9+9 SYS, 9 SECT,
4 HOPS
- Junction Network System(FO/MW) : 4+2 SYS, 3 SECT,
2 HOPS

7. Implementation Time Schedule:

1995-1996 (24 months)

8. Project Cost : US\$ 82.87 Million
including Land Cost US\$ 0.88 Million
and Building Cost US\$ 0.13 Million.
9. Amount Proposed for: US\$ 81.86 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
ML, BL, SBD, BSK
 - (b) Related Projects
 - Trunk Transmission Project (J-B M/W EXP)
(JK-SB FO-1/2)
 - STDI-I, Phase VII-B Project
 - (c) Evaluation of the Project
Financial IRR : 18.18%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Eastern Part of Jawa Island (WITEL-VII Area)
2. Project Name : VI/VII/07
3. Location : WITEL-VII Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Eastern Part of Jawa Island (WITEL-VII) in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 93,316 LU
- Trunk Switching System : 1,544 TRK
- Outside Plant (Local Cable System):126,840 SSP
- Radio Subscriber : 1,961 SUB
- Transmission System(FO/MW) :16+10 SYS,16 SECT,
8 HOPS

7. Implementation Time Schedule:

1997-1998 (24 months)

8. Project Cost : US\$ 131.80 Million
including Land Cost US\$ 0.10 Million
and Building Cost US\$ 0.06 Million.
9. Amount Proposed for: US\$ 130.64 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
LN, PM, KD, BW, SPM, SMN, TA, PS, PB, SMP
- (b) Related Projects
-Trunk Transmission Project (J-B M/W EXP).
(JK-SB FO-1/2)
- (c) Evaluation of the Project
Financial IRR : 14.21%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Eastern Part of Indonesia, WITEL-VIII Area
2. Project Name : VI/VIII/01
3. Location : Denpasar Multi-exchanges Area, WITEL-VIII
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Denpasar Multi-exchanges Area, WITEL-VIII, in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 99,210 LU
- Trunk Switching System : 1,940 TRK
- Outside Plant (Local Cable System): 125,230 SSP
- Radio Subscriber : 295 SUB
- Transmission System(FO/MW) : 8+10 SYS, 16 SECT,
8 HOPS
- Junction Network System (FO) : 5+2 SYS, 5 SECT

7. Implementation Time Schedule:

1995-1996 (12 months)

8. Project Cost : US\$ 88.83 Million
 including Land Cost US\$ 2.97 Million
 and Building Cost US\$ 0.28 Million.
9. Amount Proposed for: US\$ 85.58 Million
 Commitment
10. Related to Technical : Engineering Servises by
 Assistance Local/Foreign Consultants to be
 required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Exchange Areas:
- DPR Ubung, Jimjaraan, DPR Sanur, Pupuan, DPR
 Kaliasen, Baturiti, DPR Timur, DPR Barat, DPR
 KUTA&DLU, Gianyar, Ubud, Sukawati, Tabanan, DPR
 Nusadua
- (b) Related Projects
- Trunk Transmission Project(J-B M/W EXP)
 (JK-SB FO-1/2)
- (c) Evaluation of the Project
- Financial IRR : 22.68%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Eastern Part of Indonesia, WITEL-VIII Area
2. Project Name : VI/VIII/02
3. Location : WITEL-VIII Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Eastern Part of Indonesia, WITEL-VIII, in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 69,054 LU
- Trunk Switching System : 2,248 TRK
- Outside Plant (Local Cable System): 75,810 SSP
- Radio Subscriber : 3,214 SUB
- Transmission System(FO/MW) : 18+13 SYS, 14 SECT,
16 HOPS

7. Implementation Time Schedule:

1995-1997 (36 months)

8. Project Cost : US\$ 115.31 Million
including Land Cost US\$ 0.55 Million
and Building Cost US\$ 0.06 Million.
9. Amount Proposed for: US\$ 114.7 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
- DLI, SBW, BCU, BIM, MTR, KP, RTG, APR, ALS, SGR,
SEL, DPU, VQQ, SE, LRT, MME, WKB, BAA, ERM, MTR,
ATB, END, KGK, NGR, KEF, BJW, WGP
- (b) Related Projects
- Trunk Transmission Project (J-B M/W EXP)
(JK-SB FO-1/2)
- STDI-I, Phase-VII/B Project
- (c) Evaluation of the Project
- Financial IRR : 5.49%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Kalimantan Area, WITEL-IX
2. Project Name : VI/IX/01
3. Location : WITEL-IX Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Kalimantan WITEL-VIII, in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 85,269 LU
- Trunk Switching System : 2,545 TRK
- Outside Plant (Local Cable System):133,090 SSP
- Radio Subscriber : 2,211 SUB
- Transmission System(FO/MW) :18+17 SYS, 11 SECT,
18 HOPS

7. Implementation Time Schedule:

1995-1996 (12 months)

8. Project Cost : US\$ 131.5 Million
including Land Cost US\$ 2.11 Million
and Building Cost US\$ 0.37 Million.
9. Amount Proposed for: US\$ 129.02 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
SAN, SPT, SAG, TJS, BJM, TAR, TNR, TGT, KKN, STG,
MNT, PTA, PKC, MLK, SMR, MLN
- (b) Related Projects
-Trunk Transmission Project (BJM-BPP M/W, X-KAL EXP,
SB-BJM EXP)
-STDI-I, Phase-VII/B Project
- (c) Evaluation of the Project
Financial IRR : 17.79%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Kalimantan Area, WITEL-IX
2. Project Name : VI/IX/02
3. Location : WITEL-IX Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Kalimantan WITEL-VIII, in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 92,701 LU
- Trunk Switching System : 1,811 TRK
- Outside Plant (Local Cable System):132,370 SSP
- Radio Subscriber : 4,914 SUB
- Transmission System(MW) :5+5 SYS, 3 SECT,
5 HOPS

7. Implementation Time Schedule:

1996-1998 (36 months)

8. Project Cost : US\$ 119.43 Million
including Land Cost US\$ 0.79 Million
and Building Cost US\$ 0.19 Million.
9. Amount Proposed for: US\$ 118.45 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
KAD, KTP, SW, KTB, PTK, SMB, KKP, TBL, PBU, PLK,
PLH, BTG, BPP, NGP, NGA
- (b) Related Projects
-Trunk Transmission Project (BJM-BPP M/W, X-KAL EXP,
SB-BJM EXP)
-STDI-I, Phase-VII/B Project
- (c) Evaluation of the Project
Financial IRR : 17.59%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Sulawesi Area, WITEL-X
2. Project Name : VI/X/01
3. Location : WITEL-X Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Sulawesi, WITEL-X, in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 81,666 LU
- Trunk Switching System : 3,153 TRK
- Outside Plant (Local Cable System): 71,260 SSP
- Radio Subscriber : 3,446 SUB
- Transmission System(MW) : 20+14 SYS, 15 SECT,
19 HOPS

7. Implementation Time Schedule:

1995-1996 (24 months)

8. Project Cost : US\$ 111.07 Million
including Land Cost US\$ 1.01 Million
and Building Cost US\$ 0.19 Million.
9. Amount Proposed for: US\$ 109.87 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
- PGK, PSO, SKG, KKA, MO, PRE, BRR, AMR, KDI, WTS,
BTE, KWK, GT, BGG, BAU, MLL, TLI, RHA, LNK, PRG,
WTP, KTG, RTP, MMJ
- (b) Related Projects
- Trunk Transmission Project(SB-UP SKKL, UP-BIA SKKL,
T-SUL EXP)
- (c) Evaluation of the Project
- Financial IRR : 9.72%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Ujung Pandang Multi-exchanges Area, WITEL-X
2. Project Name : VI/X/02
3. Location : Ujung Pandang Multi-exchanges Area, WITEL-X Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Ujung Pandang Multi-exchanges Area, WITEL-X, in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 62,986 LU
- Trunk Switching System : 1,468 TRK
- Outside Plant (Local Cable System):107,350 SSP
- Radio Subscriber : 3,446 SUB
- Transmission System(MW) :2+2 SYS, 2 SECT,
2 HOPS
- Junction Network System(MW) :2+1 SYS, 1 SECT,
2 HOPS

7. Implementation Time Schedule:

1996-1997 (12 months)

8. Project Cost : US\$ 65.43 Million
including Land Cost US\$ 0.03 Million
and Building Cost US\$ 0.01 Million.
9. Amount Proposed for: US\$ 65.39 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Exchanges :
- Maros, Malino, UP Balaikota, UP Mattangi, Camba, UP
Panakuka, Sungguminasa, UP Sungguminasa, UP Mandai
- (b) Related Projects
- Trunk Transmission Project (SB-UP SKKL, UP-BIA SKKL,
T-SUL EXP)
- (c) Evaluation of the Project
- Financial IRR : 16.35%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in Sulawesi Area, WITEL-X
2. Project Name : VI/X/03
3. Location : WITEL-X Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in Sulawesi, WITEL-X, in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 27,375 LU
- Trunk Switching System : 782 TRK
- Outside Plant (Local Cable System): 62,110 SSP
- Radio Subscriber : 1,024 SUB
- Transmission System(MW) : 6+5 SYS, 6 SECT,
6 HOPS

7. Implementation Time Schedule:

1998-1999 (12 months)

8. Project Cost : US\$ 50.8 Million

9. Amount Proposed for: US\$ 50.8 Million
Commitment

10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to
be required

11. Stage of Project Preparation:

12. Additional Information:

(a) Objective Primary Exchange (PC) Areas:

BTG, PAL, BEN, WTS, PLN, JNP, THN, TKL

(b) Related Projects

SKKL, -Trunk Transmission Project(SB-UP SKKL, UP-BIA
T-SUL EXP)

(c) Evaluation of the Project

Financial IRR : 3.75%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in WITEL-XI
2. Project Name : VI/XI/01
3. Location : WITEL-XI Area (Throughout WITEL)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in WITEL-XI, in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

-Local Switching System	: 42,785 LU
-Trunk Switching System	: 1,310 TRK
-Outside Plant (Local Cable System)	: 26,120 SSP
-Radio Subscriber	: 2,016 SUB
-Transmission System(MW)	: 8+8 SYS, 4 SECT, 8 HOPS
-Junction Network System(MW)	: 1+1 SYS, 1 SECT, 4 HOPS

7. Implementation Time Schedule:

1995-1998 (48 months)

8. Project Cost : US\$ 56.66 Million
including Land Cost US\$ 1.24 Million
and Building Cost US\$ 0.2 Million.
9. Amount Proposed for: US\$ 55.22 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
TT, SAS, AB, MSH, NLM, TOB, J11, WDA, NRA, SML,
DOB
- (b) Related Projects
-Trunk Transmission Project(UP-BIA SKKL,
BIA-JAP SKKL)
-STDI-I, Phase VII/B Project
- (c) Evaluation of the Project
Financial IRR : 10.48%

PROJECT DIGEST

1. Project Title : Local Telecommunications Network Improvement and Expansion Project in WITEL-XII
2. Project Name : VI/XII/01
3. Location : WITEL-XII Area (Throughout WITEL)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand local telecommunications network in WITEL-XII, in order to meet the demand at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the local telecommunications network, and
- Testing

(b) Technical Component and Scope of Works:

- Local Switching System : 53,224 LU
- Trunk Switching System : 1,645 TRK
- Outside Plant (Local Cable System): 58,700 SSP
- Radio Subscriber : 3,343 SUB
- Transmission System(MW) : 11+11 SYS, 5 SECT,
11 HOPS

7. Implementation Time Schedule:

1995-1997 (36 months)

8. Project Cost : US\$ 89.12 Million
including Land Cost US\$ 1.74 Million
and Building Cost US\$ 0.31 Million.
9. Amount Proposed for: US\$ 87.07 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation:
12. Additional Information:
- (a) Objective Primary Exchange (PC) Areas:
SON, MW, FF, TMK, TMR, SMI, SRO, MRK, BIA, JAP,
WMN, KMN, NAB
- (b) Related Projects
-Trunk Transmission Project (UP-BIA SKKL,
BIA-JAP SKKL)
- (c) Evaluation of the Project
Financial IRR : 3.58%

PROJECT DIGEST

1. Project Title : Jakarta-Surabaya 2nd Optical Fiber Cable Trunk Transmission Project
2. Project Name : JKT-SB 2nd Optic Transmission
3. Location : JKT-BD-CBN-SM-SB
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct Jakarta-Surabaya 2nd Optical Fiber Cable Trunk Transmission Network in order to meet the trunk traffic estimated at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the trunk transmission network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Optical Fiber Cable System : about 910 Km
20 Stations
 - FO-620 M, FO-155 M : 57+57 Systems
7. Implementation Time Schedule:

1995-1996 (12 months)
8. Project Cost : US\$ 52.69 Million

9. Amount Proposed for: US\$ 52.69 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation: Preliminary study has been
done.

12. Additional Information:

(a) Objective Exchanges :

Jakarta, Bekasi, Karawang, Cikampek, Pamanukan,
Jatibarang, Cirebon, Tegal, Pekalongan, Weleli,
Semarang, Purwodadi, Blora, Bojonegoro, Lamongan,
Surabaya, Purwakarta, Bandung, Sumberlawang, Solo

(b) Evaluation of the Project

Financial IRR : 17.75%

PROJECT DIGEST

1. Project Title : Surabaya-Ujung Pandang Optical Fiber Submarine Cable Project
2. Project Name : SB-UP Submarine Cable
3. Location : Surabaya-Ujung Pandang
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct Surabaya-Ujung Pandang Optical Fiber Submarine Cable System in order to meet the trunk traffic estimated at the end of REPELITA-VI, 1998.

6. Project Description

(a) Implementation :

- Field Survey
- Detailed Design
- Procurement and installation of the Submarine Cable System, and
- Testing

(b) Technical Component and Scope of Works:

- Optical Fiber Submarine Cable System
FO-620 M, about 780 Km : 3 Systems
- Backhaul System

FO-620 M, 1 Section	:	3+3 Systems
6G-155 M	:	9+3 Systems, 3 Hops
8G-140 M	:	15 Systems, 3 Hops

7. Implementation Time Schedule:

1995-1996 (18 months)

8. Project Cost : US\$ 88.34 Million
including Land Cost US\$ 0.53 Million
and Building Cost US\$ 0.05 Million for
Ujung Pandang Landing Point Stations.
9. Amount Proposed for: US\$ 87.76 Million
Commitment
10. Related to Technical : Engineering Services by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation: Preliminary study has been
done.
12. Additional Information:
- Evaluation of the Project
- Financial IRR : 18.49%

PROJECT DIGEST

1. Project Title : Medan-Banda Aceh Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : MDN-BNA Digital M/W
3. Location : MDN-BNA
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct Medan-Banda Aceh Digital Mico-wave Radio Trunk Transmission Network in order to meet the trunk traffic estimated at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the trunk transmission network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Digital Micro-wave Radio System : about 510 Km
10 Terminals and 6 Repeaters
 - 6G-155 M : 23+15 Systems
7. Implementation Time Schedule:

1995-1996 (12 months)
8. Project Cost : US\$ 16.74 Million

9. Amount Proposed for: US\$ 16.74 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants to be
required
11. Stage of Project Preparation: Preliminary study has been
done.

12. Additional Information:

- Evaluation of the Project

Financial IRR : 17.75%

PROJECT DIGEST

1. Project Title : Expansion Project of Trans-Sumatera Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : Trans-Sematera M/W Expansion
3. Location : MDN-SBG-PD-PBR-SKN-PG-LHT-TJK
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand Trans-Sematera Digital Mico-wave Radio Trunk Transmission Network in order to meet the trunk traffic estimated at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Detailed Design
 - Procurement and installation of the trunk transmission network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Digital Micro-wave Radio System :about 2,350Km
42 Terminals and 18 Repeaters
 - 6G-140 M : 165 Systems
 - 6G-155 M : 33+15 Systems
7. Implementation Time Schedule:

1995-1997 (30 months)