

8. Project Cost : US\$ 69.95 Million
including Land Cost US\$ 0.25 Million
9. Amount Proposed for: US\$ 69.7 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 : 18.64%

PROJECT DIGEST

1. Project Title : PALAPA C-1 Launching Project
2. Project Name : PALAPA C1
3. Location : Whole Indonesia
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to launch PALAPA C1 Satellite in order to meet the trunk traffic estimated at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Design and Manufacturing of Satellite
 - Procurement and launching of Satellite, and
 - Testing
7. Implementation Time Schedule:

1995-1996 (12 months)
8. Project Cost : US\$ 300 Million
9. Amount Proposed for: US\$ 300 Million
Commitment
10. Related to Technical : not required
Assistance

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 Jawa-Bali Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : J-B M/W EXP
3. Location : JKT-BD-SB-MN-SB-DPR
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand Jawa-Bali 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 1,340Km
29 Terminals and 9 Repeaters
- 6G-140 M : 109 Systems
- Optical Fiber Cable System
- FO-620 M : 1+1 System
- FO-140 M : 3 Systems

7. Implementation Time Schedule:

1996-1997 (12 months)

8. Project Cost : US\$ 35.41 Million
9. Amount Proposed for: US\$ 35.41 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 : 21.40%

PROJECT DIGEST

1. Project Title : Ujung Pandang-Biak Optical Fiber Submarine Cable Project
2. Project Name : UP-BIA Submarine Cable
3. Location : Ujung Pandang-Ambon-Sorong-Biak
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA
(PT TELKOM)
5. Objectives : to construct Ujung Pandang-Biak 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 2,420 Km : 3 Systems
- Backhaul System

FO-620 M	: 2+2 Systems
FO-155 M	: 1+1 System
6G-155 M	: 10+5 Systems

7. Implementation Time Schedule:

1996-1997 (18 months)

8. Project Cost : US\$ 158.90 Million
including Land Cost US\$ 1.68 Million
and Building Cost US\$ 0.37 Million.
9. Amount Proposed for: US\$ 156.85 Million
Commitment
10. Related to Technical : Engineering Servises by
Assistance Local/Foreign Consultants are to
be required.
11. Stage of Project Preparation: Preliminary study has been
done.
12. Additional Information:
 - Evaluation of the Project
Financial IRR : 21.13%

PROJECT DIGEST

1. Project Title : Satellite Channel Expansion Project
2. Project Name : SAT CH EXP
3. Location : Whole Indonesia
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to improve and expand Satellite Channels in order to meet the trunk traffic estimated at the end of REPELITA-VI, 1998.
6. Project Description
 - (a) Implementation :
 - Field Survey
 - Procurement and installation of the Satellite Earthstations, and expansion of Channels, and
 - Testing
 - (b) Technical Component and Scope of Works:

TDMA	:	3,116 Channels, 23 Sites (New Sites:14)
SCPC	:	893 Channels, 36 Sites (New Sites:26)
7. Implementation Time Schedule:

1996-1997 (12 months)
8. Project Cost : US\$ 55.77 Million
including Land Cost US\$ 1.16 Million
and Building Cost US\$ 0.98 Million.

9. Amount Proposed for: US\$ 53.63 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 : 21.40%

PROJECT DIGEST

1. Project Title : Banjarmasin-Balikpapan Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : BJM-BPP M/W
3. Location : BJM-BPP
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct Banjarmasin-Balikpapan 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 470 Km
10 Terminals and 3 Repeaters
 - 6G-155 M : 36+12 Systems
7. Implementation Time Schedule:

1996-1997 (12 months)
8. Project Cost : US\$ 14.10 Million
including Land Cost US\$ 0.27 Million

9. Amount Proposed for: US\$ 13.83 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 : 21.40%

PROJECT DIGEST

1. Project Title : Jakarta-Pangkal Pinang-Pontianak Optical Fiber Submarine Cable Project
2. Project Name : JK-PGP-PTK
3. Location : Jakarta-Pangkal Pinang- Pontianak
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct Jakarta-Pnagkal Pinang-Pontianak 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
STM-4, about 1,000Km : 5 Systems
 - Backhoul System
FO-620 M, 3 Section : 7+7 Systems
7. Implementation Time Schedule:

1997-1998 (18 months)

8. Project Cost : US\$ 185.87 Million
including Land Cost US\$ 1.58 Million
and Building Cost US\$ 0.16 Million.
9. Amount Proposed for: US\$ 184.13 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 : 22.93%

PROJECT DIGEST

1. Project Title : 2nd Trans-Sumatera Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : 2nd T-Sum
3. Location : BNA-SBG-MDN-PBR-JB-PG
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct 2nd Trans-Sumatera 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 2,030 Km
10 Terminals and 6 Repeaters
 - 6G-155 M : 168+60 System
 - 6G-140 M : 36 System
7. Implementation Time Schedule:

1997-1998 (24 months)
8. Project Cost : US\$ 113.74 Million
including Land Cost US\$ 20.75 Million
and Building Cost US\$ 2.07 Million.

9. Amount Proposed for: US\$ 90.92 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 : 23.67%

PROJECT DIGEST

1. Project Title : Expansion Project of Cross-Kalimantan Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : X-KAL EXP
3. Location : Major Cities in Kalimantan
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand Cross-Kalimantan 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 1,030Km
14 Terminals and 11 Repeaters
 - 6G-155 M : 46+23 Systems
7. Implementation Time Schedule:

1997-1998 (12 months)

8. Project Cost : US\$ 23.90 Million
9. Amount Proposed for: US\$ 23.90 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 : 25.07%

PROJECT DIGEST

1. Project Title : Expansion Project of Trans-Sulawesi Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : T-SUL EXP
3. Location : Major Cities in Sulawesi
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand Trans-Sulawesi 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 1,310Km
14 Terminals and 21 Repeaters
 - 6G-140 M : 38 Systems
7. Implementation Time Schedule:

1997-1998 (12 months)

8. Project Cost : US\$ 11.89 Million
9. Amount Proposed for: US\$ 11.89 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 : 25.07%

PROJECT DIGEST

1. Project Title : Channel Expansion Project of Surabaya-Banjarmasin Submarine Cable System
2. Project Name : SB-BJM EXP
3. Location : Surabaya-Banjarmasin
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand channel of Surabaya-Banjarmasin 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 trunk transmission network, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Digital Speech Interpolation(DSI): 3,660 Channels
7. Implementation Time Schedule:

1997-1998 (12 months)
8. Project Cost : US\$ 9.11 Million

9. Amount Proposed for: US\$ 9.11 Million
Commitment
10. Related to Technical : not required
Assistance
11. Stage of Project Preparation: Preliminary study has been
done.
12. Additional Information:
 - Evaluation of the Project
 - Financial IRR : 25.07%

PROJECT DIGEST

1. Project Title : Expansion Project of Jakarta-Surabaya
1st Optical fiber Cable System
2. Project Name : JK-SB FO-1
3. Location : JKT-BD-PWT-YK-MN-SB
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand Jakarta-Surabaya 1st Optical
Fiber 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
trunk transmission network, and
- Testing

(b) Technical Component and Scope of Works:

-Optical Fiber Cable System : about 990 Km
36 Stations

FO-2.4G : 1+1 System

7. Implementation Time Schedule:

1998-1999 (12 months)

8. Project Cost : US\$ 12.08 Million

9. Amount Proposed for: US\$ 12.08 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 : 25.13%

PROJECT DIGEST

1. Project Title : Jakarta-Padang Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : JK-PD M/W
3. Location : JKT-TJK-LHT-PD
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct Jakarta-Padang 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 1,050 Km
17 Terminals and 10 Repeaters
 - 8G-155 M : 109+26 Systems
7. Implementation Time Schedule:

1998-1999 (12 months)
8. Project Cost : US\$ 42.62 Million

9. Amount Proposed for: US\$ 42.62 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:
 - Evaluation of the Project
 - Financial IRR : 25.13%

PROJECT DIGEST

1. Project Title : Surabaya-Malang Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : SB-ML M/W
3. Location : SB-ML
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct Surabaya-Malang 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 80 Km
2 Terminals and 1 Repeaters
 - 8G-155 M : 6+3 Systems
7. Implementation Time Schedule:

1998-1999 (12 months)
8. Project Cost : US\$ 2.35 Million

9. Amount Proposed for: US\$ 2.35 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 : 25.12%

PROJECT DIGEST

1. Project Title : Biak-Jayapura Optical Fiber Submarine Cable Project
2. Project Name : BIA-JAP SKKL
3. Location : Biak-Jayapura
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to construct Biak-Jayapura 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 680Km : 1 System
- Backhaul System (Digital MW)
FO-155 M, 2 Section : 2+2 Systems

7. Implementation Time Schedule:

1998-1999 (12 months)

8. Project Cost : US\$ 48.13 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\$ 47.55 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 : 25.13%

PROJECT DIGEST

1. Project Title : Expansion Project of Trans-Nusa Tenggara Digital Micro-wave Radio Trunk Transmission Project
2. Project Name : TR-NT EXP
3. Location : Major Cities in Nusa Tenggara
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand Nusa-Tenggara 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 1,480 Km
12 Terminals and 7 Repeaters
 - 6G-140 M : 23 Systems
7. Implementation Time Schedule:

1998-1999 (12 months)
8. Project Cost : US\$ 7.14 Million

9. Amount Proposed for: US\$ 7.14 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 : 25.13%

PROJECT DIGEST

1. Project Title : Public Coin Telephone Provision Project
2. Project Name : PCT Provision Project
3. Location : Throughout Indonesia
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to procure and provide Public Coin Telephones throughout Indonesia in order to meet the demand at the end of REPELITA-VI, 1998.
6. Project Description

-Procurement of Public Coin Telephones

Card Type Telephones : 50,000

Coin Type Telephones : 50,000

and necessary accessories

7. Implementation Time Schedule:

1994-1998 (60 months)

8. Project Cost and Amount proposed for Commitment

: US\$ 170 Million

9. Related to Technical Assistance : not required

10. Stage of Project Preparation:

11. Additional Information:

PROJECT DIGEST

1. Project Title : Jakarta Second Local Telecommunications Network Construction by PBH
2. Project Name : JKT New Local Network
3. Location : Jakarta Multi-exchanges Area , WITEL-IV Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to procure and provide Jakarta Second Local Telecommunications network in WITEL-IV Area by PBH, in order to meet the high potential 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 : 700,000 LU
- Tandem Switching System : 3,640 TRK
- Trunk Switching System : 8,180 TRK
- Outside Plant (Local Cable System): 910,000 SSP
- Junction Network System : 12+12 SYS, 6 SECT
- Trunk Transmission System : 5+ 5 SYS, 1 SECT

7. Implementation Time Schedule:

1996-1998 (36 months)

8. Project Cost : US\$ 507.82 Million
including Land Cost US\$ 1.73 Million
and Building Cost US\$ 0.97 Million.

9. Amount Proposed for: US\$ 507.82 Million
Commitment

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

11. Stage of Project Preparation:

12. Additional Information:

- Evaluation of the Project

Financial IRR : 27.77%

PROJECT DIGEST

1. Project Title : Bandung Second Local Telecommunications Network Construction by PBH
2. Project Name : BND New Local Network
3. Location : Bandung Multi-exchanges Area , WITEL-V Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to procure and provide Bandung Second Local Telecommunications network in WITEL-V Area by PBH, in order to meet the high potential 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 : 400,000 LU
- Tandem Switching System : 2,080 TRK
- Trunk Switching System : 4,690 TRK
- Outside Plant (Local Cable System): 520,000 SSP
- Junction Network System : 8+8 SYS, 4 SECT
- Trunk Transmission System : 3+3 SYS, 1 SECT

7. Implementation Time Schedule:

1996-1998 (36 months)

8. Project Cost : US\$ 292.81 Million
including Land Cost US\$ 1.73 Million
and Building Cost US\$ 0.61 Million.

9. Amount Proposed for: US\$ 292.81 Million
Commitment

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

11. Stage of Project Preparation:

12. Additional Information:

- Evaluation of the Project

Financial IRR : 24.77%

PROJECT DIGEST

1. Project Title : Surabaya Second Local Telecommunications Network Construction by PBH
2. Project Name : SB New Local Network
3. Location : Surabaya Multi-exchanges Area , WITEL-IV Area
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to procure and provide Surabaya Second Local Telecommunications network in WITEL-VII Area by PBH, in order to meet the high potential 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 : 400,000 LU
- Tandem Switching System : 2,080 TRK
- Trunk Switching System : 4,690 TRK
- Outside Plant (Local Cable System): 520,000 SSP
- Junction Network System : 8+8 SYS, 4 SECT
- Trunk Transmission System : 3+3 SYS, 1 SECT

7. Implementation Time Schedule:

1996-1998 (36 months)

8. Project Cost : US\$ 292.87 Million
including Land Cost US\$ 1.73 Million
and Building Cost US\$ 0.67 Million.

9. Amount Proposed for: US\$ 292.87 Million
Commitment

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

11. Stage of Project Preparation:

12. Additional Information:

- Evaluation of the Project

Financial IRR : 26.89%

PROJECT DIGEST

1. Project Title : Project for Expansion and Improvement of Cellar Mobile Telephone System in Area-I (Sematera)
2. Project Name : CM.Telephone (Area-I)
3. Location : Sematera Area (Area-I)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and improve Cellar Mobile Telephone System in Sematera 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 Cellar Mobile Telephone System, and
- Testing

(b) Technical Component and Scope of Works:

- Mobile Telephone Switching System :47,000 LU
- Mobile Telephone Radio System :47,000 SUB
- Mobile Telephone Terminals :47,000 SUB

7. Implementation Time Schedule:

1995-1998 (48 months)

8. Project Cost : US\$ 167.29 Million

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

10. Stage of Project Preparation:

11. Additional Information:

(a) Demand estimated

Medan : 9,000 Sub
Other 19 sites : 2,000 each

(b) Evaluation of the Project

Financial IRR : %

PROJECT DIGEST

1. Project Title : Project for Expansion and Improvement of Cellar Mobile Telephone System and Paging System in Area-II (JAWA)
2. Project Name : CM.Telephone (Area-II)
3. Location : Jawa Area (Area-II)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and improve Cellar Mobile Telephone System and Paging System in Jawa 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 Cellar Mobile Telephone System and Paging System, and
- Testing

(b) Technical Component and Scope of Works:

- Mobile Telephone Switching System :167,000 LU
- Mobile Telephone Radio System :167,000 SUB
- Mobile Telephone Terminals :167,000 SUB
- Radio Paging System : 21 Areas
- Radio Paging Terminals :265,200 SUB

7. Implementation Time Schedule:

1995-1998 (48 months)

8. Project Cost : US\$ 384.78 Million

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

10. Stage of Project Preparation:

11. Additional Information:

(a) Demand estimated

Jakarta	:	81,000	Sub
Surabaya	:	27,000	Sub
Bandung	:	14,000	Sub
Semarang	:	10,000	Sub
Other 17 sites	:	2,800	Sub each

(b) Evaluation of the Project

Financial IRR : %

PROJECT DIGEST

1. Project Title : Project for Expansion and Improvement of
Cellar Mobile Telephone System in
Area-III (Kalimantan)
2. Project Name : CM.Telephone (Area-III)
3. Location : Kalimantan Area (Area-III)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and improve Cellar Mobile
Telephone System in Kalimanntann 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
Cellar Mobile Telephone System, and
 - Testing
 - (b) Technical Component and Scope of Works:
 - Mobile Telephone Switching System :10,000 LU
 - Mobile Telepnone Radio System :10,000 SUB
 - Mobile Telephone Terminals :10,000 SUB
7. Implementation Time Schedule:

1995-1998 (48 months)
8. Project Cost : US\$ 36.60 Million

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

10. Stage of Project Preparation:

11. Additional Information:

(a) Demand estimated

Banjarmasin : 2,000 Sub
Other 4 sites : 2,000 Sub each

(b) Evaluation of the Project

Financial IRR : %

PROJECT DIGEST

1. Project Title : Project for Expansion and Improvement of Cellar Mobile Telephone System in Area-IV (Sulawesi)
2. Project Name : CM.Telephone (Area-IV)
3. Location : Sulawesi Area (Area-IV)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and improve Cellar Mobile Telephone System in Sulawesi 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 Cellar Mobile Telephone System, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Mobile Telephone Switching System	:10,000 LU
-Mobile Telephone Radio System	:10,000 SUB
-Mobile Telephone Terminals	:10,000 SUB
7. Implementation Time Schedule:

1995-1998 (48 months)
8. Project Cost : US\$ 36.60 Million

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

10. Stage of Project Preparation:

11. Additional Information:

(a) Demand estimated

Ujung Pandan : 2,000 Sub
Other 4 sites : 2,000 Sub each

(b) Evaluation of the Project

Financial IRR : %

PROJECT DIGEST

1. Project Title : Project for Expansion and Improvement of Radio Paging System in Area-I (Sumatera)
2. Project Name : Paging (Area-I)
3. Location : Sumatera Area (Area-I)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and improve Paging System in Sumatera 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 Radio Paging System, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Radio Paging System	:	20 Areas
-Radio Paging Terminals	:	61,000 SUB
7. Implementation Time Schedule:

1995-1998 (48 months)
8. Project Cost : US\$ 65.15 Million

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

10. Stage of Project Preparation:

11. Additional Information:

(a) Demand estimated

Kalimantan	:	2,000	Sub	
Other 4 sites	:	2,000	Sub	each

(b) Evaluation of the Project :

Financial IRR : %

PROJECT DIGEST

1. Project Title : Project for Expansion and Improvement of Radio Paging System in Area-II (Jawa)
2. Project Name : Paging (Area-II)
3. Location : Jawa Area (Area-II)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and improve Paging System in Jawa 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 Radio Paging System, and
- Testing

(b) Technical Component and Scope of Works:

- Radio Paging System : 21 Areas
- Radio Paging Terminals : 161,000 SUB

7. Implementation Time Schedule:

1995-1998 (48 months)

8. Project Cost : US\$ 82.95 Million

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

10. Stage of Project Preparation:

11. Additional Information:

(a) Demand estimated

Jakarta	:	78,000	Sub
Surabaya	:	26,000	Sub
Bandung	:	13,500	Sub
Semarang	:	9,500	Sub
Other 17 sites	:	2,000	Sub each

(b) Evaluation of the Project

Financial IRR : %

PROJECT DIGEST

1. Project Title : Project for Expansion and Improvement of Radio Paging System in Area-III (Kalimantan)
2. Project Name : Paging (Area-III)
3. Location : Kalimantan Area (Area-III)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and improve Paging System in Kalimantan 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 Radio Paging System, and
 - Testing
 - (b) Technical Component and Scope of Works:

-Radio Paging System	:	5 Areas
-Radio Paging Terminals	:	14,000 SUB
7. Implementation Time Schedule:

1995-1998 (48 months)
8. Project Cost : US\$ 16.1 Million

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

10. Stage of Project Preparation:

11. Additional Information:

(a) Demand estimated

Banjarmasin : 6,000 Sub
Other 4 sites : 2,000 Sub each

(b) Evaluation of the Project

Financial IRR : %

PROJECT DIGEST

1. Project Title : Project for Expansion and Improvement of Radio Paging System in Area-IV (Sulawesi)
2. Project Name : Paging (Area-IV)
3. Location : Sulawesi Area (Area-IV)
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to expand and improve Paging System in Sulawesi 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 Radio Paging System, and
- Testing

(b) Technical Component and Scope of Works:

- Radio Paging System : 5 Areas
- Radio Paging Terminals : 14,000 SUB

7. Implementation Time Schedule:

1995-1998 (48 months)

8. Project Cost : US\$ 16.1 Million

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

10. Stage of Project Preparation:

11. Additional Information:

(a) Demand estimated

Ujung Pandang	:	6,000	Sub	
Other 4 sites	:	2,000	Sub	each

(b) Evaluation of the Project

Financial IRR : %

PROJECT DIGEST

1. Project Title : Project for Establishment of The National and Regional Telecommunications Network Operation and Maintenance Centers
2. Project Name : Network Center Project(Stage-I)
3. Location : Throughout Indonesia
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives :
 - to manage information as resource through efficient data management
 - to realize efficient network planning/management through organizational and system integration
 - to streamline business activities and fully utilize scarce humanresources through computerization
 - to achieve efficient data flow through Inter-networking
6. Project Description :
 - Design/Construction of building and its communication facilities(LAN) in Jakarta for 1st phase and Jakarta, Bandung, Surabaya, Medan, Balikpapan and Ujung Pandang for 2nd phase
 - Design/Construction of Corporate Database System
 - Provision of efficient network planning tool and its computer system
 - System Integration (e.g., IMS<->PLANITU<->CNAC, etc.)
 - Inter-networking among location
 - Provision of Training Equipment
7. Implementation Time Schedule:

1995-1998 (48 months)

8. Project Cost : US\$ 7.41 Million
including Land and Building Cost
US\$ 6.9 Million
9. Amount Proposed for Commitment:
10. Related to Technical Assistance: Network Center Project
(Stage-II)
11. Stage of Project Preparation: Preliminary study has been
done.

PROJECT DIGEST

1. Project Title : Project for Establishment of The National and Regional Telecommunications Network Operation and Maintenance Centers
2. Project Name : Network Center Project(Stage-II)
3. Location : Jakarta
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives :
 - to manage information as resource through efficient data management
 - to realize efficient network planning/management through organizational and system integration
 - to streamline business activities and fully utilize scarce humanresources through computerization
 - to achieve efficient data flow through Inter-networking
6. Project Description :
 - Advisory to PT TELKOM's management in the streamlining management work & control
 - Setting guidelines/standardization of network planning/management procedures
 - Maintain Corporate Database & Define new application software
 - Training & Transfer of Technology
7. Implementation Time Schedule:

1995-1998 (48 months)
8. Project Cost : US\$ 2.68 Million
(Foreign Cost US\$ 2.4 Million and Local Cost US\$ 6.9 Million)

9. Amount Proposed for Commitment:
10. Related to Technical Assistance: Network Center Project
(Stage-I)
11. Stage of Project Preparation: Preliminary study has been
done.

PROJECT DIGEST

1. Project Title : REPELITA-IV Project Management Consulting Services
2. Project Name : PMC-VI
3. Location : Whole Indonesia
4. Executing Agency : PT TELEKOMUNIKASI INDONESIA (PT TELKOM)
5. Objectives : to assist the execution of the Projects to be implemented during REPELITA-VI
 - (a) Consulting Services :
 - Field Survey
 - Project Compilation
 - Sasic Design
 - Preparation of TenderDocuments
 - Supervision of the Project Implementation, and
 - Management of Development Programs for REPELITA-VI
 - (b) Required Technical Field:
 - Network Planning
 - Switching System
 - Transmission System
 - Outside Plant
 - Contract Administration
 - Project Administration
7. Implementation Time Schedule:

1994-1998 (60 months)
8. Project Cost : US\$ 326.9 Million

9. Amount Proposed for: US\$ 326.9 Million
Commitment
10. Related to Technical : not required
Assistance
11. Stage of Project Preparation: Preliminary study has been
done.
12. Additional Information:
 - Objective Projects
PD01-PD86 listed in 'Project Digest'
 - Consultants to be selected according to Finance
Conditions

JICA