

**Figure 1-11-10 Corporate Financial Projection
Minimum Tariff Increase Sensitivity**

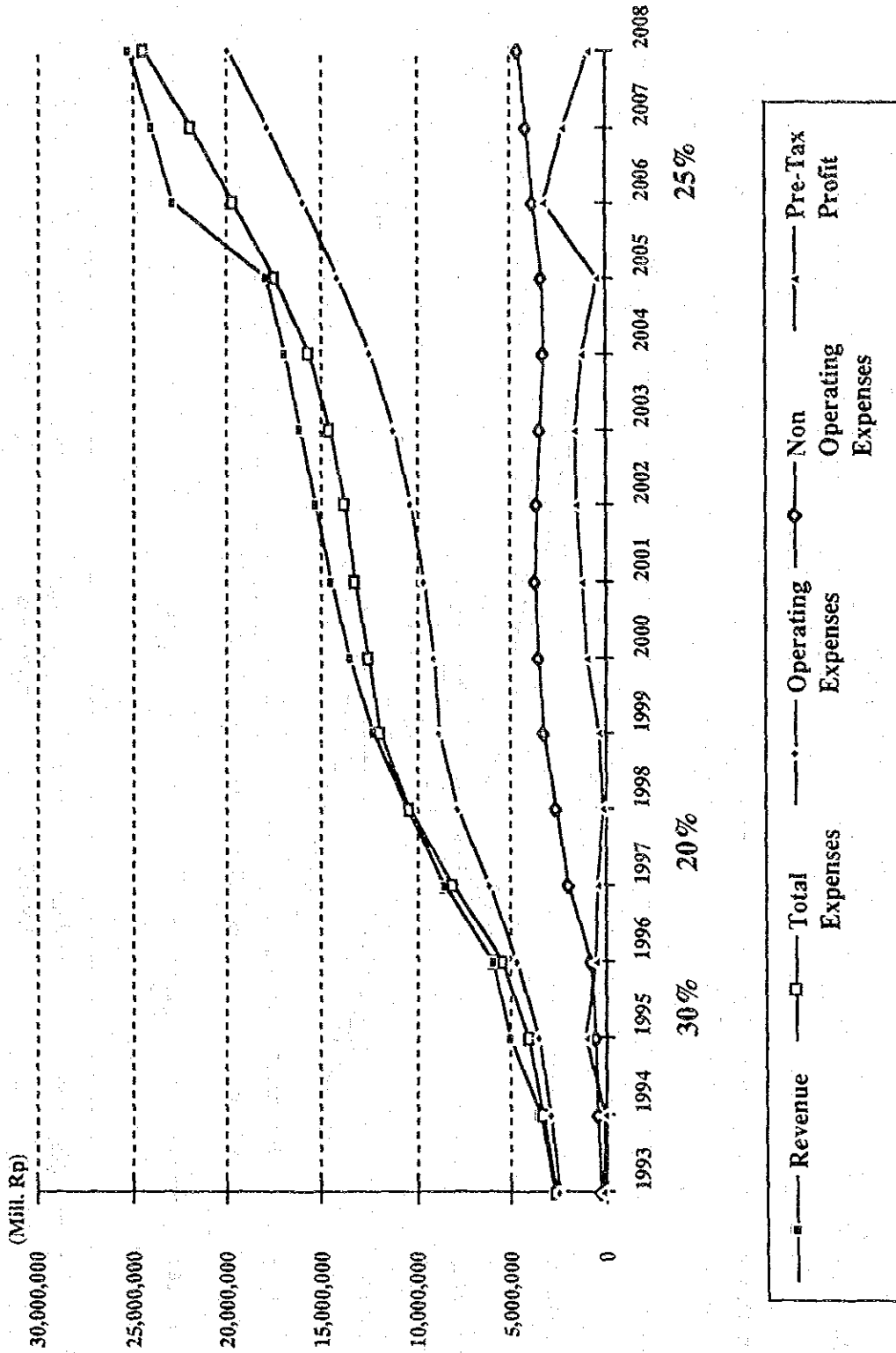


Figure 1-11-11
Corporate Financial Projection
Marketable Capacity 85%
5.0 Million

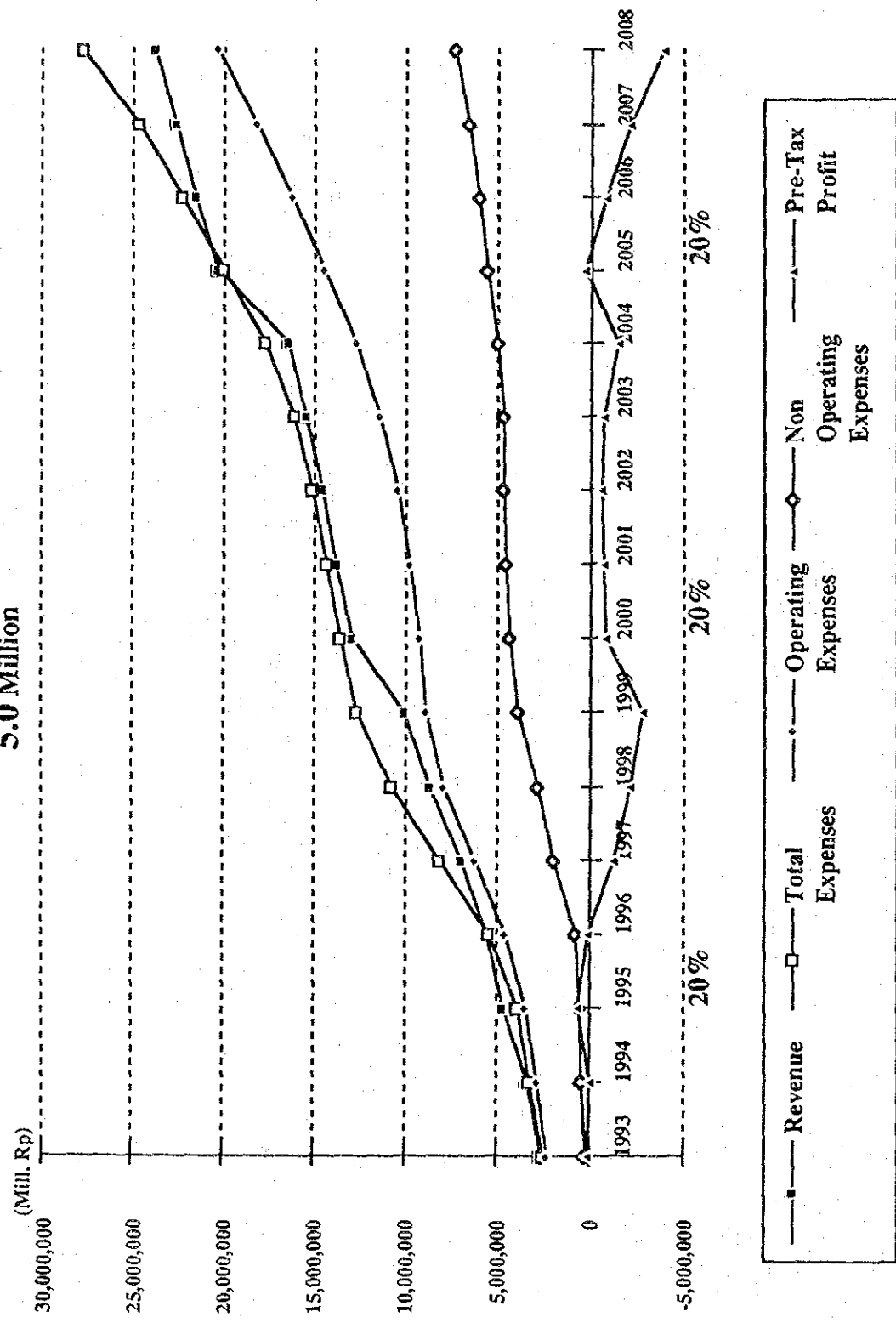


Figure 1-11-12
Corporate Financial Projection
No Declining Factor for Productivity per L.U.

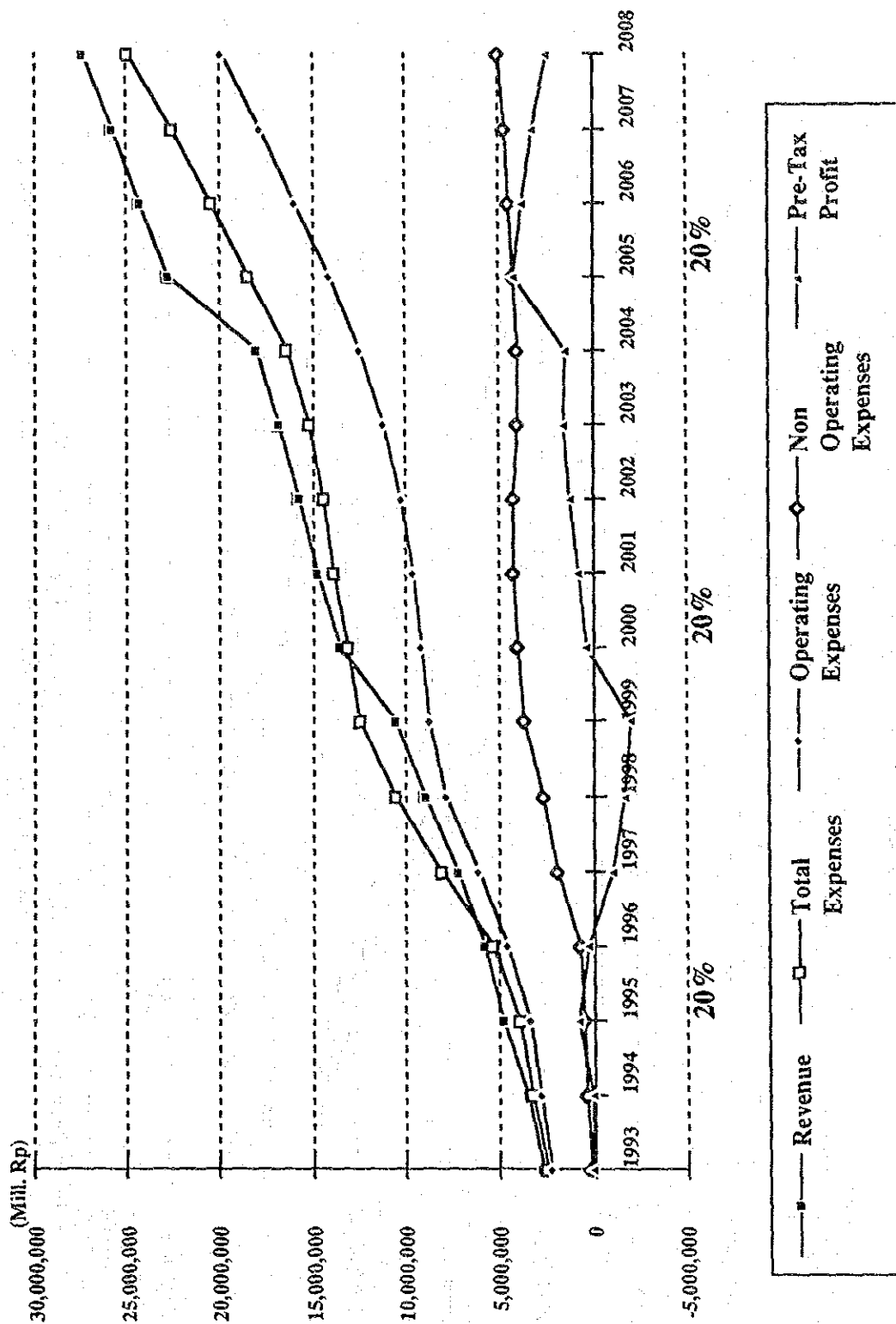


Figure 1-11-13
 Corporate Financial Projection
 Marketable 85% & No Declining

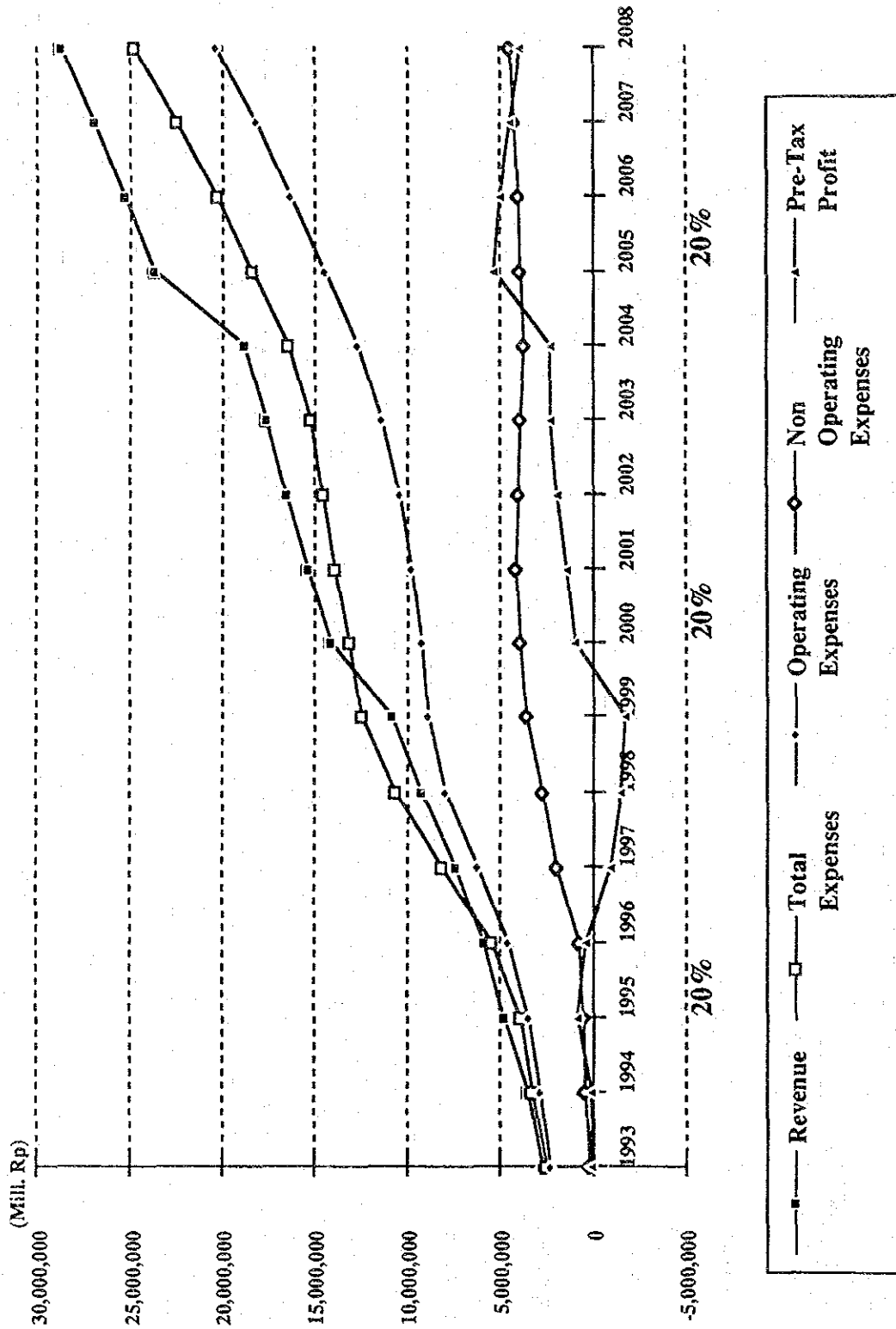
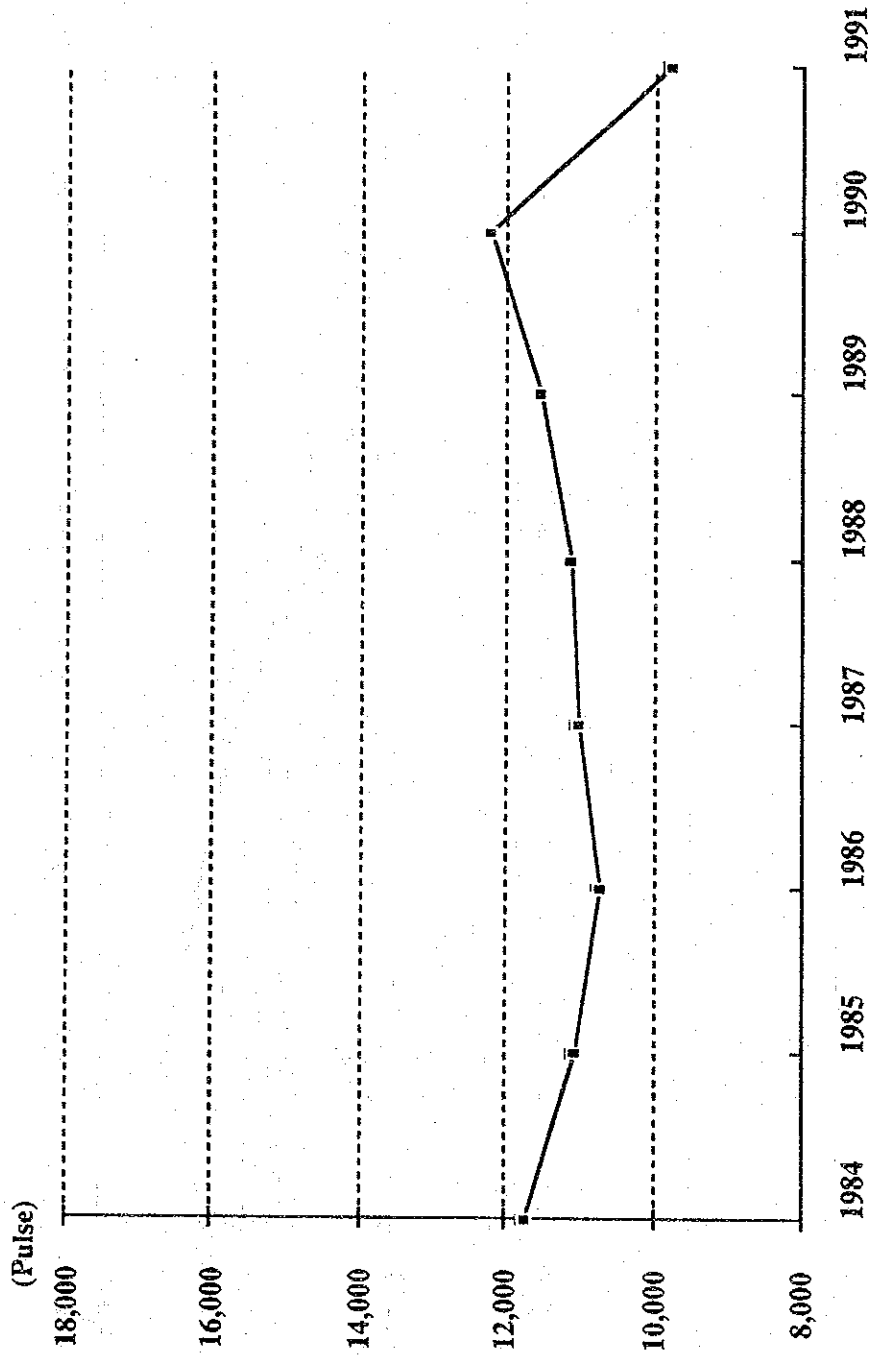
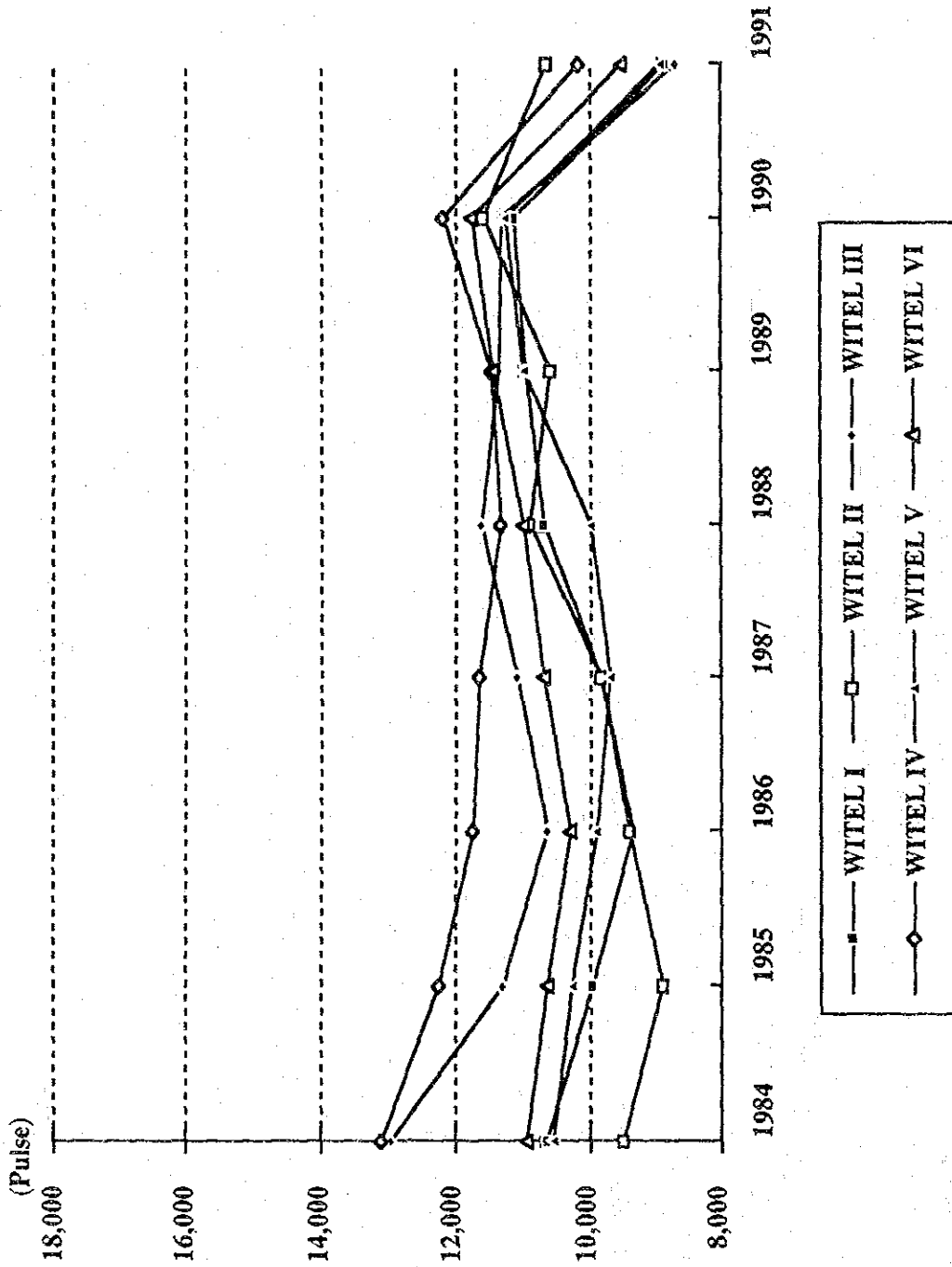


Figure 1-11-14
National
Historical Pulse Productivity
Per Main Line Unit



Historical Pulse Productivity Per Main Line Unit WITEL I ~ VI

Figure 1-11-15



Historical Pulse Productivity
Per Main Line Unit
WITEL VII ~ XII

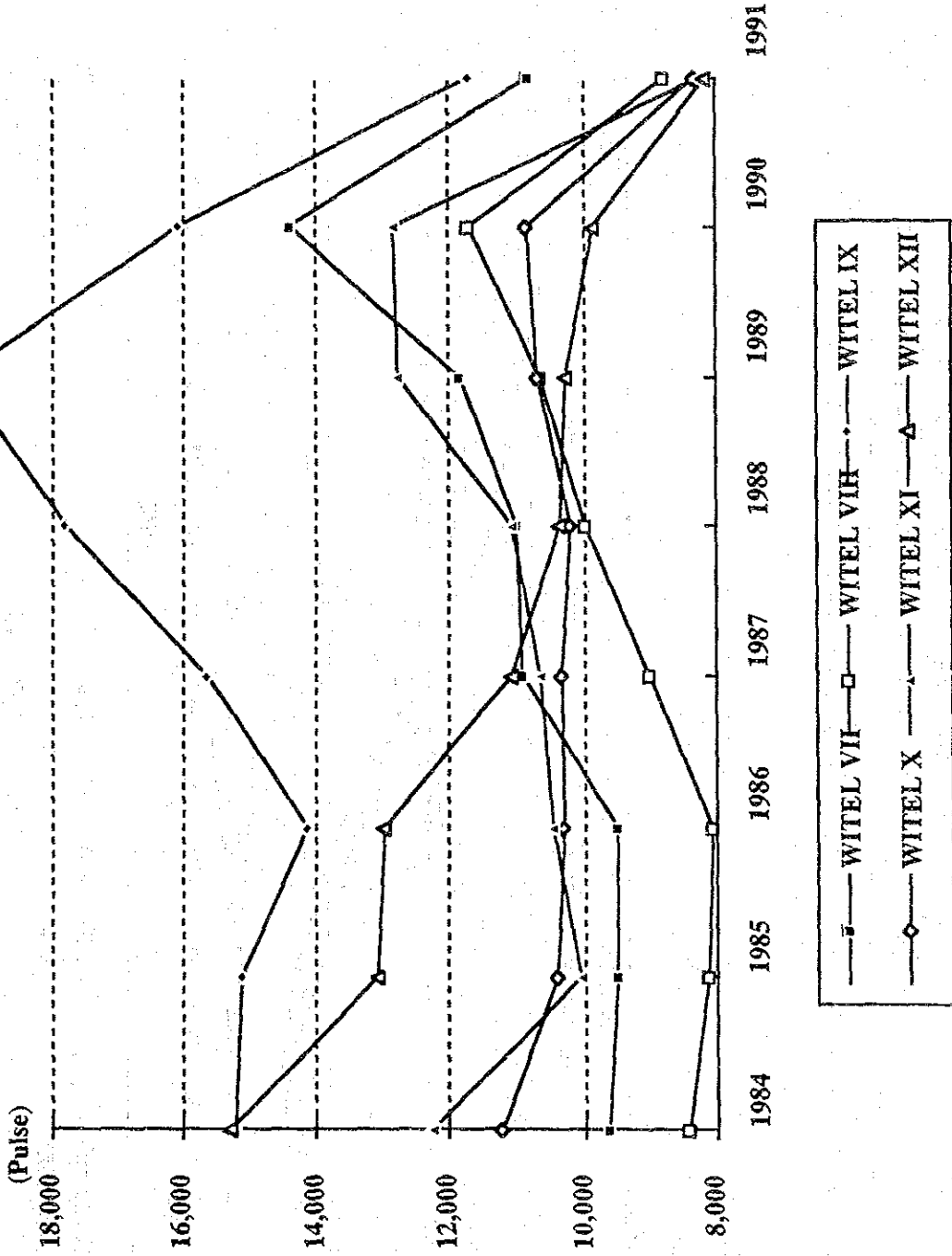


Figure 1-11-16

Figure 1-11-17 Corporate Financial Projection
Equity Finance for Local Fund Requirement

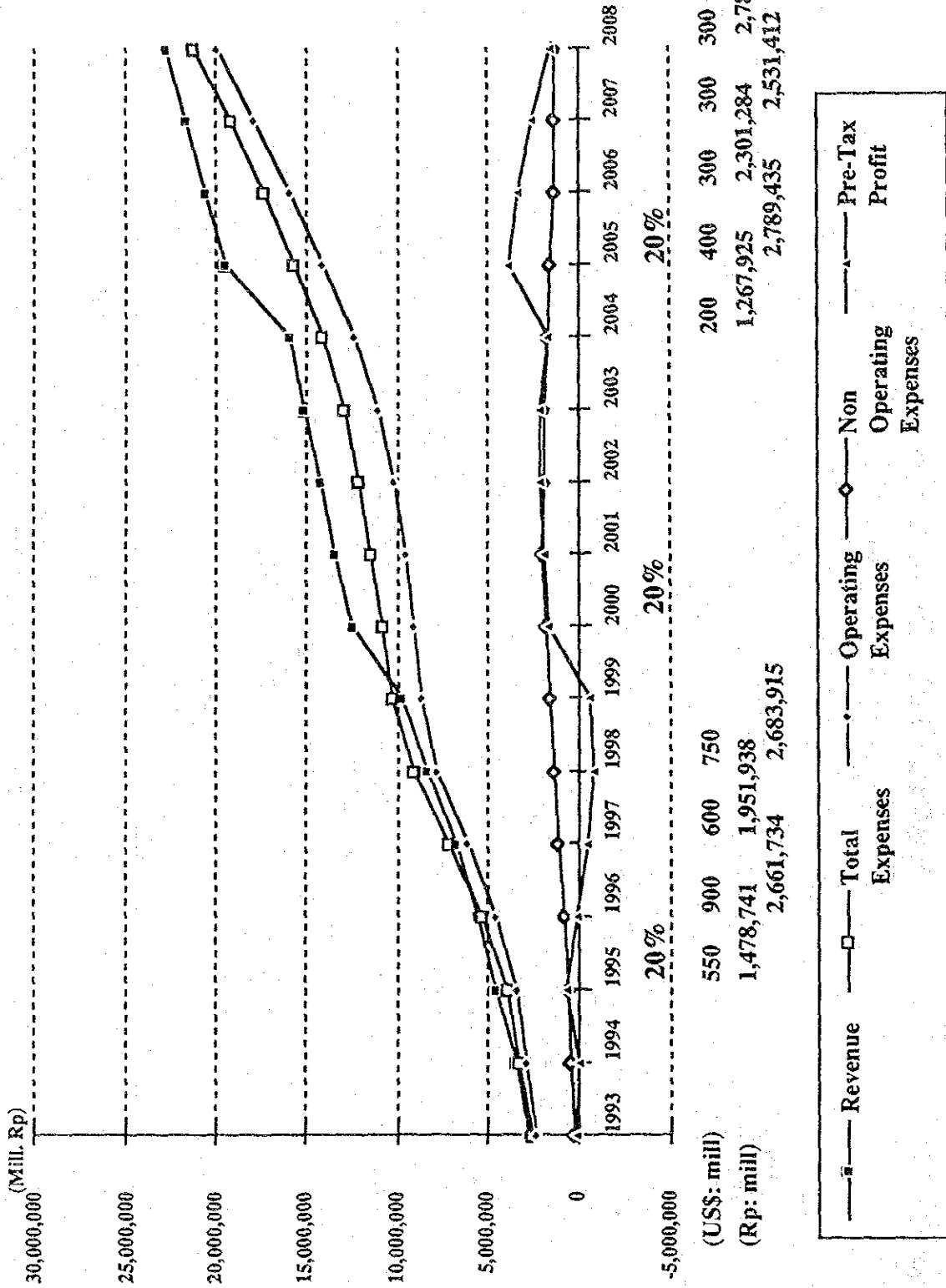


Figure 1-11-18
 Corporate Financial Projection
 Foreign Official Loan Interestrate of 8 %

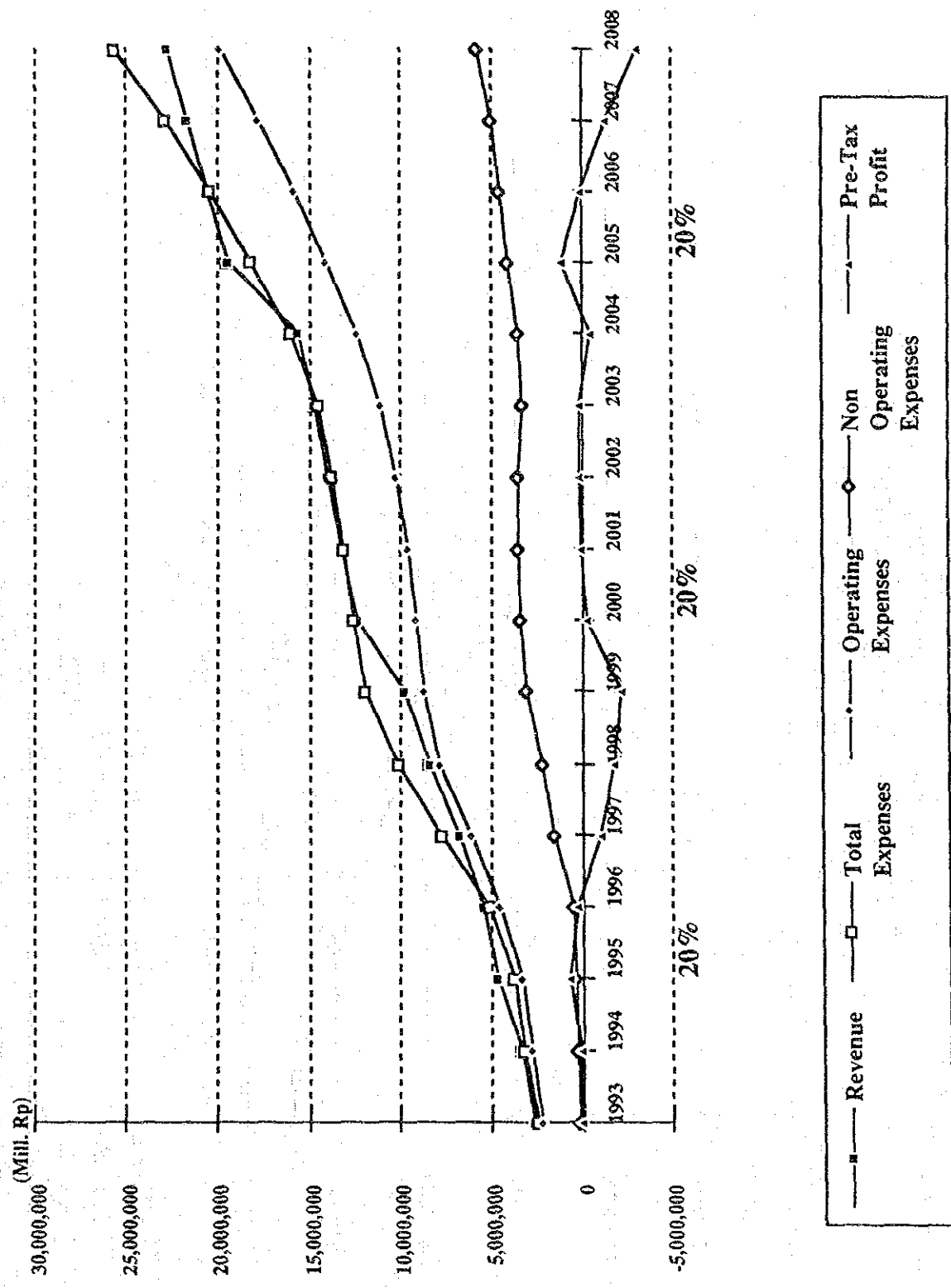
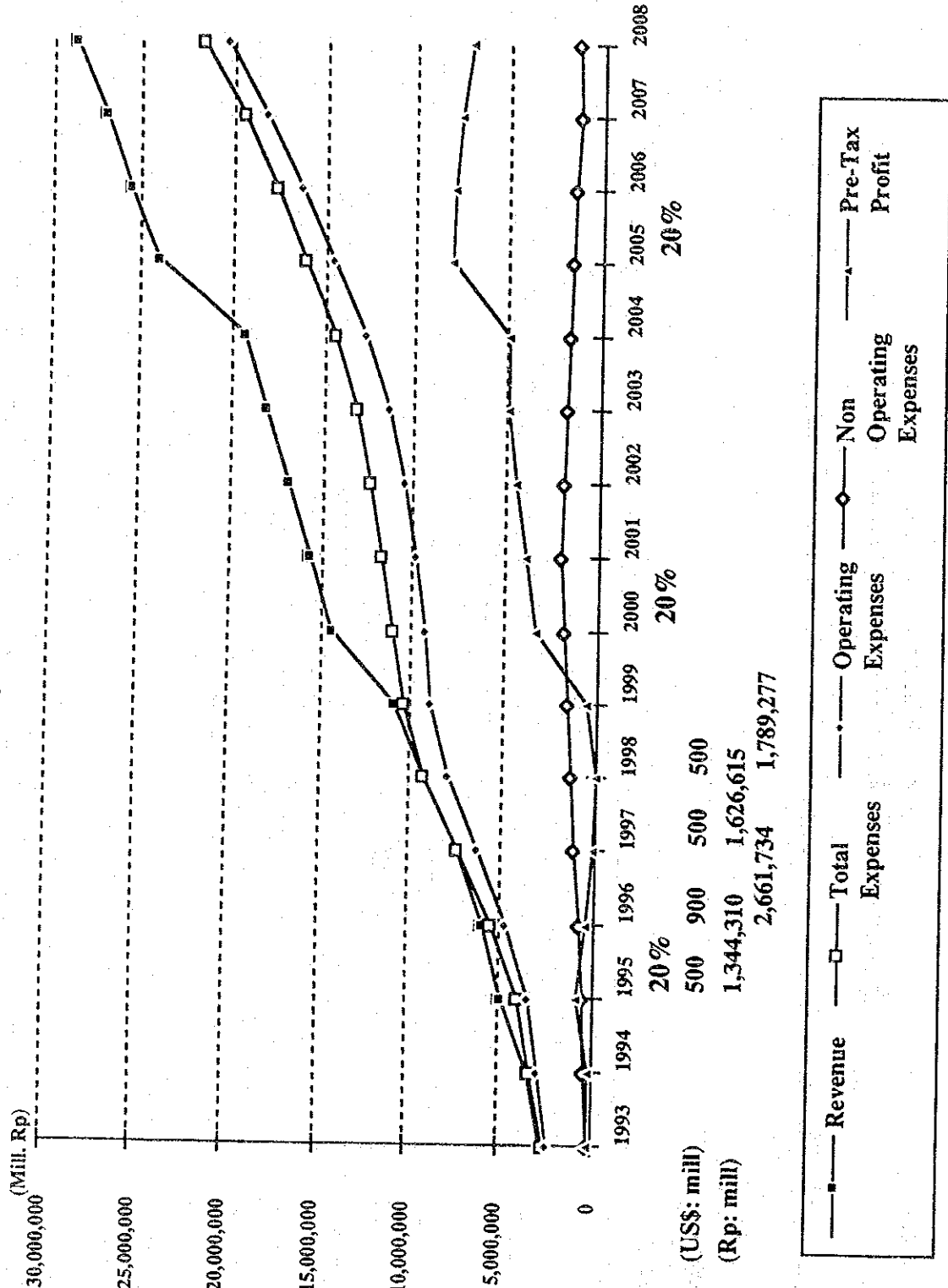
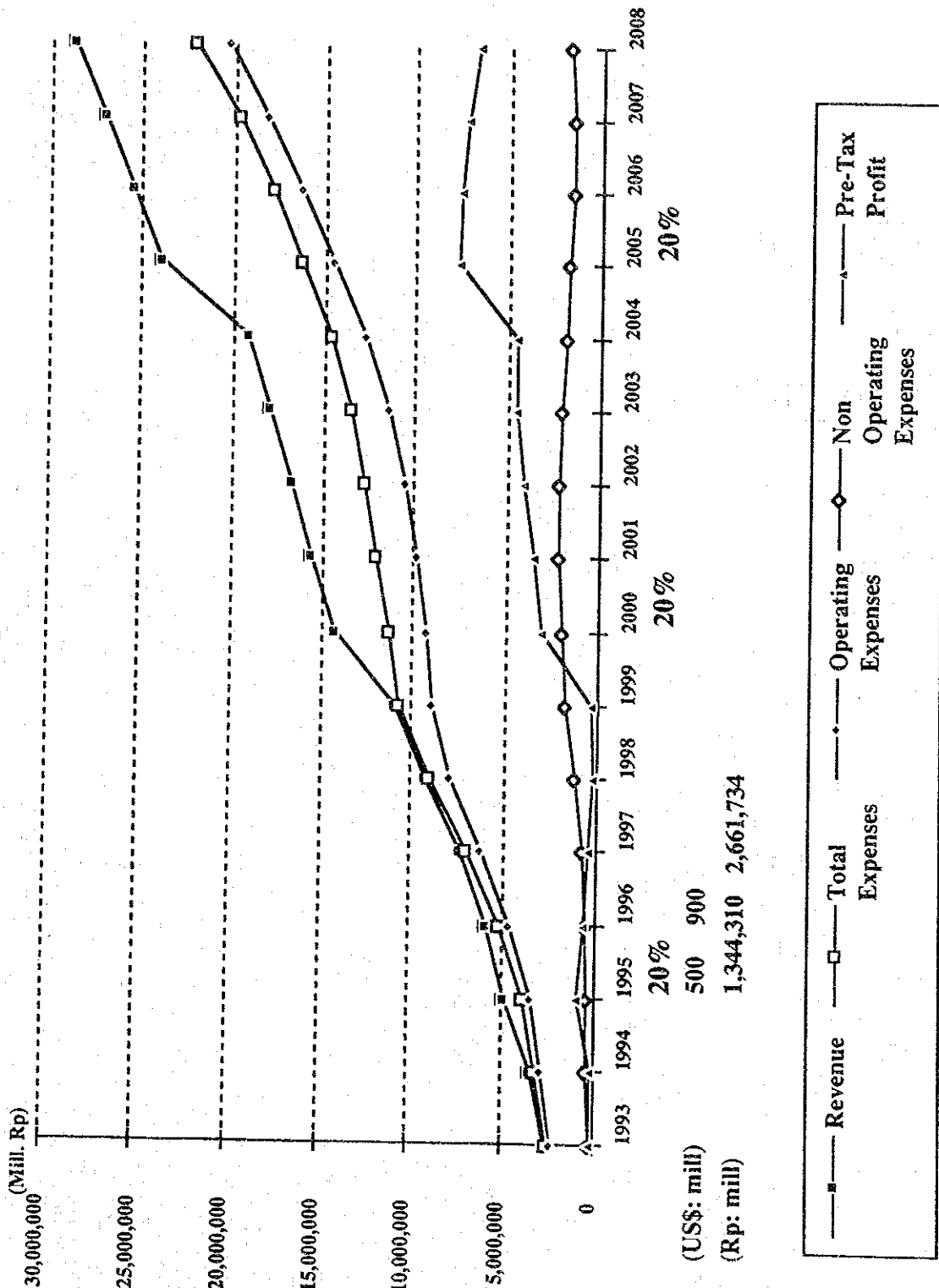


Figure 1-11-19
 Corporate Financial Projection
 Mraketable 85% & No Declining plus
 Equity Finance



**Corporate Financial Projection
Mraketable 85% & No Declining plus
Equity Finance with Special Interest Rate**



SECTION 12
CONCLUSION AND RECOMMENDATION

SECTION 12 CONCLUSION AND RECOMMENDATION

The development target of 5.0 MLU capacity increase during the REPELITA-VI period is reasonable one for the Indonesian Government to forge the telecommunications sector as a driving force of the Indonesian economy. The program established by the study team to achieve the target is feasible and implementable. There are, however, financial and technical conditions to be satisfied for the successful achievement of the program.

1. Financial Conditions

Although the result of the financial evaluation indicates rather high profitability of the investment program (FIRR: 19.31 percent), development cost impact is expected to be very much burdensome for the executive entity. Especially in the early period after the completion of development, deficits of entity's accounts are imperative without special measurements.

Avoiding such deficits is indispensable for the entity to maintain credibility and financial health. They are important to procure necessary fund including private equity investment and future commercial loans. These measurements to avoid negative profitability of the executive entity in any accounting period other than streamlining efforts are considered as the special conditions for the successful achievement of the target. Followings are the conditions.

- (1) Tariff adjustment, which is raising 20 to 30 percent from current level, is to be applied in 1995. Periodical adjustment might be necessary afterwards.
- (2) Productivity improvement measures are to be applied to increase revenue. The measures are the followings.
 - a) Improvement of marketing survey accuracy and sales promotion; and
 - b) Improvement of SCR (Successful Call Ratio).

These measures aim to decrease idle capacity ratio, and to maintain or to increase per line unit pulse productivity.

- (3) Sharing ratio adjustment of international call by gradual raising from current 35 percent of PT. TELKOM's portion to 60 percent level by the year 1996.
- (4) Special financial arrangements are to be taken.

Special considerations for the fund procurement

helping alleviation of development funding cost burden are essential for the successful target realization.

There shall be many combinations which satisfies development fund requirement and limited fund cost affording capability. Followings are example cases, which meet conditions, derived from sensitivity analyses.

Table 1-12-1 Financial Procurement Examples

Fund Category	Case A	Case B	Case C
Equity Investment	1.5	2.5	3.5
Moderate Cost Fund	3.0	3.0	2.0
Commercial Loan	1.0	0.0	*
Internal Cash	2.0	2.0	2.0
Total	7.5	7.5	7.5

Unit: billion U.S\$

* : see explanation c) below.

Equity Investment represents no cost financing which includes equity investment to increase capital and no interest telephone subscriber's bond. Moderate Cost Fund means moderate interest loans or bonds which interest rate is ranging from 8 percent to 13 percent including intra-governmental loan, low interest subscriber's bond, and a government guaranteed bond. Commercial Loan means loans or bonds with 20 percent to 25 percent interest rate. Internal Cash is available fund generated by the executive agency itself. Followings are conditions assumed for each case.

- a) In the case A, interest rate of the Moderate Cost Fund is assumed 8 percent;
- b) In the case B, interest rate of the Moderate Cost Fund is assumed 13 percent; and
- c) In the case C, interest rate of the Moderate Cost Fund can be a few points higher than 13 percent. This means part of the Moderate Cost Fund can be Commercial Loan.

Since this example is just a reference for the preparation of financial portfolio, actual amounts should not be confined to the above mentioned figures.

- (5) Measures to support rural area telecommunications network development and penetration/diffusion are to be taken.

- a) Supporting program to help cooperatives to subscribe and to utilize telephone facilities. (Detailed idea of this program is stated in the part of economic evaluation in the Section 11.)
- b) Establishment of rural area development fund to support rural area telecommunications network development. (In the case private equity investment is made through establishment of (a) new executive entity(ies).)

Source of the fund shall be a special tax collected from profitable domestic telecommunications companies.

The first measure helps the executive entity extending the telecommunication network toward the rural area to secure certain level of capacity utilization and revenue from subscribers in the rural area.

The second measure intends to support rural area telecommunications network development by supplying necessary fund with no or very low interest rate.

2. Recommendations for Financial Conditions Fulfillment

Early establishment of the program to fulfill the above mentioned conditions is a very priority subject to be accomplished. It involves policy, legal and institutional, and managerial issues which are closely inter-relating each other. Also study on each issue requires detailed data, survey and analysis. There shall be many feasible combinations of options for the fulfillment.

One aspect of urgent actions required for the establishment of the program is immediate implementation of detailed studies for the productivity improvement, the tariff adjustment, the low cost fund raising methods, and the rural area telecommunications network development. These studies should aim to facilitate decision maker's judgement for the program establishment.

Another category of the urgent actions are necessary negotiations and coordinations for the tariff adjustment, the sharing ratio adjustment for international call, the fund procurement, and the rural area telecommunications network development assistance programs. Result of these actions shall be feedback for the above mentioned studies at the same time the study results shall be input for the second category actions.

Collaborative activities between studies and political/coordinating actions are indispensable.

3. Recommendations for Technical Aspects

The proposed area project packages, which are composed of all the sub-systems such as switch, transmission, local cable and related supporting facilities, are to be executed for realization of network system resulting to provide telecommunications services immediately. Therefore, it is generally recommended to carry out the proposed project packages considering measures under mentioned.

For smooth implementation of the program, it is necessary to follow-up the implementation program proposed in this report according to the following procedures:

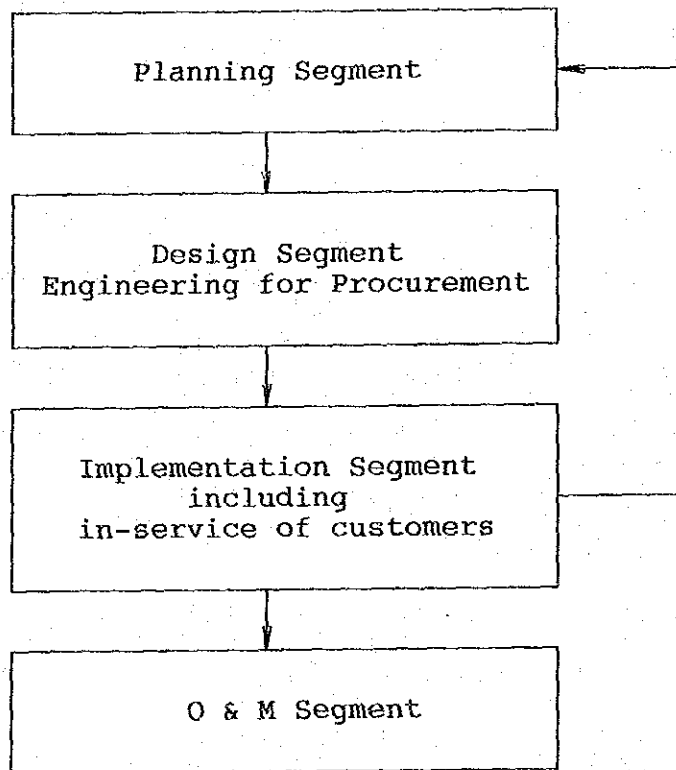


Figure 1-12-1 Follow-Up of Implementation Program

The following paragraphs describe in detail the measures to be taken for implementation of the program.

3.1 Management

(1) Coordination among Related Segments

Close coordination is to be established and strengthened among the segments for planning,

designing, implementing, tendering and contract, procurement, etc. aiming at realization of practical scheduling and synchronization among the implementation bodies.

(2) Enhancement of Information Management System

To well-organize the implementation bodies, the information management system is to be enhanced. The necessary information for administrative sections and departments is to be clarified and up-dated, while management of such information is to be integrated and unified. In this connection, facility records are also required to be arranged and up-dated. For example, the following information are to be recorded after investigation:

- a) space availability of site and building;
- b) availability of antenna supporting tower;
- c) type and capacity of system;
- d) type and number of equipment;
- e) number of subscribers; and
- f) number of waiting applicants.

(3) Management for immediate Customer's Service

The following procedures are to be systematically managed through computerization:

- a) receipt of customer's application in sales section;
- b) ordering of application to operation section;
- c) check and confirmation of facility availability;
- d) execution of necessary installation for the customer; and
- e) registration of the related facilities.

(4) Promotion of Standardization

Standardization of the following items is to be promoted including preparation of related manuals:

- a) planning method;
- b) basic design for procurement; and
- c) installation method of each sub-system.

(5) Fostering of Local Telecommunications Trade

It is necessary to foster the local telecommunications trade such as engineering company, manufacturer, construction company for securing the scheduled ordering and procurement based on the medium and long-term plan.

3.2 Planning Segment

Aiming at the effective investment, the planning segment is to be well-organized. The planning segment deals yearly implementation planning together with medium-term and long-term planning. In addition, the planning segment is requested to up-date the plans by feeding-back of the contents of the latest contract.

3.3 Design Segment

Designing is to be carried out in advance of the project implementation for purposes of procurement and tendering.

3.4 Implementation Segment

For strengthening of implementation management, the following measures are to be taken:

- (1) To inform the suitable commencement schedule of land acquisition and building construction to the related organization;
- (2) To request for the related organization to proceed the necessary action for obtaining of governmental approval such as road excavation and radio application;
- (3) To manage the whole program continuously including the respective project management. It is also requested to dispatch own supervisor periodically to sites concerned; and
- (4) For in-service of customers, to store suitable volume of installation materials and to maintain sufficient number of installation vehicles.

3.5 Operation and Maintenance Segment

Operation and maintenance segment is to be strengthened through the following measures:

- (1) unification of the supervisory and control items;
- (2) establishment of routine inspection items for preventive maintenance; and
- (3) unification of logistic system to secure spare items and repair materials, etc.

3.6 Technical Alternatives

Taking the future expandability and viability of network system into consideration, appropriate advanced technology

is to be reflected to the proposed plan timely. For example, the following subscriber system could be applied as an alternative due to difficulty on expansion of cable network in large cities:

- (1) large capacity subscriber radio system using quasi-millimeter wavelength system;
- (2) optic cable subscriber system; and
- (3) portable telephone system.

As for the backbone transmission system, in addition, installation of fiber optic transmission systems are to be accelerated instead of the proposed microwave systems in cases that fiber optic system has advantage systematically and has no difficulty on installation of fiber cable.

3.7 Use of Consultants

Use of both foreign and local consultants is encouraged for assistance of the following works:

- (1) Program Management;
- (2) Planning;
- (3) Standardization; and
- (4) Project management.

ANNEXES

ANNEX 1

MINUTES OF MEETINGS

Minutes of Meetings
on
Inception Report
for
The Study on Telecommunications Network Development Plan
for
REPELITA-VI
in
The Republic of Indonesia

Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Advisory Committee headed by Mr. Osamu Koyama and the JICA Study Team (hereinafter referred to as "the Team") headed by Mr. Hideji Kajikawa to the Republic of Indonesia for presenting and discussing on the contents of the Inception Report for the Study on Telecommunications Network Development Plan for REPELITA-VI (hereinafter referred to as "the Inception Report").

The meetings were held on 19th, 20th, 23rd and 24th March, 1992 at the conference room of Directorate General of Posts and Telecommunications (hereinafter referred to as "POSTEL") in Jakarta and at the conference room of P.T. Telekomunikasi Indonesia (hereinafter referred to as P.T. TELKOM) on the Inception Report submitted by the Team.

Ir. Daeng Iskandar, Deputy Director General of Posts and Telecommunications, Department of Tourism, Posts and Telecommunications, expressed his gratitude to Japanese members.

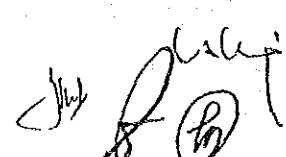
Mr. O. Koyama, Chairman of the Advisory Committee for the Study, appreciated the hospitality extended to the Japanese members by the concerned authorities in the Republic of Indonesia.

Mr. H. Kajikawa presented the Inception Report and discussed with the staffs of POSTEL, P.T. TELKOM and Department of Tourism, Posts and Telecommunications (hereinafter referred to as "PARPOSTEL").

The attendants at the meetings are shown in Attendance Sheets attached hereto.

The contents of the Inception Report were basically agreed by the Indonesian side. The major results of discussions on the Inception Report are as follows:

1. The Indonesian side advised the Team to refer to the Fundamental Technical Plan 1992 (FTP '92), which is under finalizing, in addition to the Fundamental Technical Plan 1985 (FTP '85). The Team agreed to consider the FTP '92.



2. The Indonesian side requested the Team to study for not only supply volume but also telecommunications services. The following two items were requested by the Indonesian side to add into the Approach to the Study:

- a) Fundamental Policy in Network Development, and
- b) Fundamental Policy in Services Development.

As for the above two items, the Indonesian side also requested to include them into the Plan of Operation and the request was agreed by the Team.

3. The Indonesian side requested to receive the Final Report as early as possible. The Team explained that the Final Report would be submitted two (2) months after the receiving of the comments on the Draft Final Report from the Indonesian side in accordance with the Minutes of Meetings on the Scope of Work for the Study. The Indonesian side agreed.

4. The Indonesian side asked for the plan of the counterpart training in Japan. JICA explained that the training in Japan has been planned for one (1) trainee for approximately one (1) month. As for the training, the application form is to be submitted by the Indonesian Government two (2) months prior to the commencement of the training in Japan. The Indonesian side understood the situation and proposed to extend the stay of the trainee and to increase up to two (2) trainees in Japan by their own expense.

5. The Indonesian side requested the Team to evaluate and advise the targets of REPELITA-VI. For further details, such evaluation and advise should take into account "GUIDELINE FOR PREPARATION OF REPELITA-VI (1994-1999) IN THE REPUBLIC OF INDONESIA (Ver.1.01 Apr.1, 1992)". The Team understood and agreed the request.

6. The Indonesian side requested the Team to prepare the Implementation Programme for the following booklets:

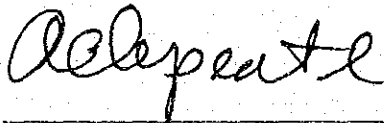
- a) eleven (11) booklets on the basis of WITEL except for WITEL IV,
- b) five (5) booklets for WITEL IV on the basis of project implementation area, and
- c) a booklet for back-bone transmission

The Team explained that the Implementation Programme would be prepared as a part of the Final Report taking the above requests into consideration. The Indonesian side agreed.

Handwritten signature and initials in the bottom right corner of the page. The signature appears to be 'John A. [unclear]' with a circled 'B' below it.

7. The following undertakings from the Team were agreed by P.T. TELKOM:
 - a) assignment at least ten (10) of full-time counterparts, one (1) for each study group,
 - b) provision of furnished office sufficient for the Team and the above counterparts, and
 - c) provision of suitable vehicles during the survey in each WITEL.
8. The Team asked for P.T. TELKOM to deliver the Questionnaire prepared by the Team to each WITEL and to receive answers from each WITEL before the visit. P.T. TELKOM agreed to response to the above requests.
9. The Team is requested to study improvement of the existing network and to propose adequate measures to improve the condition to the most achievable improvement by P.T. TELKOM (technically as well as financially).
10. Upon submission of the Draft Final Report, the Team should be able to categorize the projects based on those profitability and financing method available.

Jakarta, 24th March, 1992



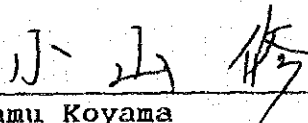
Achadiat Djajawinata
Deputy Director of Planning
Research & Development Center
P.T. Telekomunikasi Indonesia



Hideji Kajikawa
Team Leader
JICA Study Team



Suwito Tjokro
Director of Planning
Directorate General of
Posts & Telecommunications
Department of Tourism,
Posts & Telecommunications



Osamu Koyama
Chairman
The Advisory Committee
for the Study

RAPAT : Meeting on Inception Report (1st)

TGL. : 19 March, 1992

JAM : 11:40 ~ 14:00

TEMPAT : Meeting Room D.G. Postel,

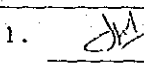
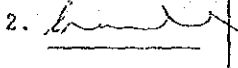
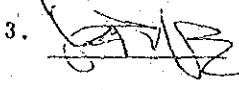
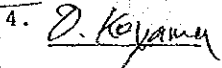

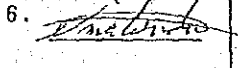
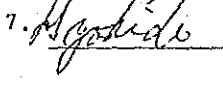
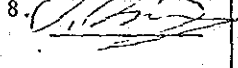

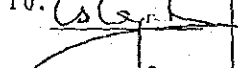
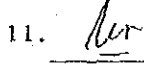


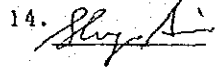
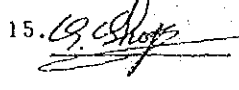
	N A M A	I N S T A N S I	TANDA - TANGAN
1	KOESMARIHATI SU-GONDO	PARPOSTEL	1.
2	Saedarpo	Postel	2.
3	BOEITARDI	POSTEL	3.
4	TOTOK HEWU	POSTEL	4.
5	BUDI SANTOSO	Dcp. PARPOSTEL	5.
6	Ronta	Postel	6.
7	NORAWATY	D. B. Postel	7.
8	S. SHOJI	TELKOM JICA Expert	8.
9	AOKI Shigemuro	JICA (POSTEL)	9.
10	ATSUSHI FUSE	JICA, JAKARTA	10.
11	HARUHIKO YOSHIDA	JICA, TOKYO	11.
12	TADAHIKO MIURA	JICA Study Team	12.
13	TATSUMI AMANO	"	13.
14	OSAMU KOYAMA	JICA Advisory Committee (MPT)	14.
15	AKIRA MURAKAMI	M.P.T.	15.
16	NAOTO MATSUDA	JICA Study Team	16.
17	Swite Jokeo	DITJEN POSTEL	17.
18	D. Iskandar	Scheditjen	18.
19	H. Kayikawa	JICA Study Team JICA Study Team	19.
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21			21. _____
22			22. _____
23			23. _____
24			24. _____

RAPAT : Meeting on Inception Report (2nd)

TGL. : 20 March, 1992

JAM : 8:30 ~

TEMPAT : Meeting Room D.G. POSTEL,

	N A M A	I N S T A N S I	TANDA - TANGAN
1	Suwito Iyokro	Dirjen Postel	1. 
2	SOENARDO	Dirjen Postel	2. 
3	Soedarpo	Dirjen Postel	3. 
4	OSAMU Koyama	JICA Advisory Committee	4. 
5	Akira Murakami	Advisory Committee Member	5. 
6	NAOTO MATSUDA	JICA STUDY TEAM	6. 
7	HARUHIKO YOSHIDA	JICA	7. 
8	TARAIKO MIURA	JICA Study Team	8. 
9	TATSUMI AMANO	"	9. 
10	Hideji Kajikawa	"	10. 
11	Norabaty	Postel	11. 
12	JAJAT. S	TELKOM	12. 
13	ACHADIAT. D.	TELKOM	13. 
14	AOKI Shigemasa	JICA (POSTEL)	14. 
15	Shunichi SHOJI	JICA Expert TELKOM	15. 
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			22. _____
			23. _____
			24. _____



PT TELEKOMUNIKASI INDONESIA

KANTOR PUSAT
 Jl. Jend. Gatot Subroto 52
 Telp. : (021) 5203321 (Hunting), Fax. : 5203322, Telex : 66751
 Jakarta 12150
 Indonesia

DAFTAR HADIR RAPAT

RAPAT : JICA Team for REPELITA VI
 TANGGAL : 23-3-1992
 JAM : 09.00
 TEMPAT : Pusrenlitbang

NO	NAMA	JABATAN/BAGIAN	TANDA TANGAN
1.	ACHADIAT	PUSREN	<i>ach</i>
2.	<i>Kuntung</i>		<i>MA</i>
3.	Socdarpo	Postel/Perpre	<i>Socdarpo</i>
4.	Mulyono Dj.	Pusren	<i>Mulyono</i>
5.	JAJAT. S.		
6.	S. PURBA	"	<i>SP</i>
7.	Bonnie Waid	DG Postel	<i>Bonnie</i>
8.	A. Haryanto	Pusren	<i>A. Haryanto</i>
9.	Bambang Sukmono	RongAS	<i>Bambang</i>
10.	K. TSURUSKI	OPMC	<i>K. Tsuruski</i>
11.	Utang Supriyanta	Pusren	<i>Utang</i>
12.	I.G. P. RACA	"	
13.	M. RIZARIBU	"	<i>M. Rizaribu</i>
14.	UNDANG SUARJA		<i>Undang</i>
15.	Herman Nata	Kerjasama	<i>Herman</i>
16.	MADILAWATI	LITBANG	<i>Madilawati</i>
17.	S. SHOJI	OPMC. JICA EXPERT	<i>S. Shoji</i>
18.	N. MATSUDA	JICA STUDY TEAM	<i>N. Matsuda</i>
19.	H. YOSHIDA	JICA	<i>H. Yoshida</i>
20.	Aoki Shigemasa	JICA (DG. POSTEL)	<i>Aoki</i>

DAFTAR HADIR RAPAT

RAPAT :
 TANGGAL :
 J A M :
 TEMPAT :

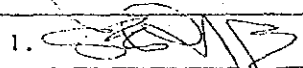
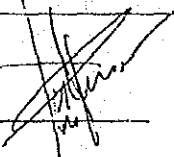
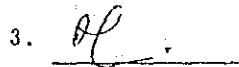

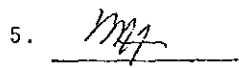

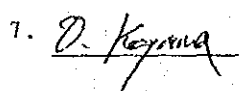
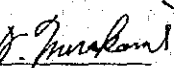



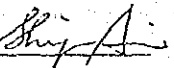
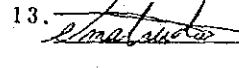
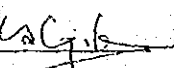

NO	N A M A	JABATAN/BAGIAN	TANDA TANGAN
21	T. MILLRA	JICA Study Team	21.
22	Tatsumi AMANO	"	22.
23	Hideji KAJIKAWA	"	23.
24	DSAMU KOYAMA	JICA Advisory Committee	24.
25	Akiya MUYAKAMI	" Advisory Committee	25.
26	CHAIRUL BACHRI	DALNET	26.
27	M. Idris	DALNET	27.
28	F. Prati Santia	REKNET / DITOP	28.
29	Endang Rumawan	REK.NET	29.
30	SUPRANADI	RENTAR / DITYAN.	30.
31	FATKHUR ROHMAN	RENJAS PUSREN LTIS	31.
32	ASMUDIJO	PROTA	32.
33	Deden Oeraman	Jangkes	33.
34	Katta Jusuf	RENKIB	34.
35	Ali Cecilia	Jasa	35.
36	Yuliosih	RENKUG	36.
37	BANGGUA SIBARATI	RENKIB	37.
38	Siti Hindun	RENKIB	38.
39	PARIDA IFA	RENDANT	39.
40	DEBOTO	RENDANA	40.
41	WINTOKO M.P	PRO SCR	41.

RAPAT : Meeting on Inception Report (. .)

TGL. : 24 March, 1992

JAM : 9:00 -

TEMPAT : Meeting Room D.G. POSTEL

	N A M A	I N S T A N S I	T A N D A - T A N G A N	
1	Aedarmo	Postel	1. 	2. 
2	Bonnie W.	POSTEL		
3	S. Pute	PT Telkom	3. 	
4	MULYONO Dj.	- -		4. 
5	Muntoro Hs	- -	5. 	
6	ACHADIAT	- -		6. 
7	OSAMU KOYAMA	JICA Advisory Co	7. 	
8	Akira Murakami	JICA Advisory Committee		8. 
9	Tatsumi AMANO	JICA Study Team	9. 	
10	Tadahiko MIZUKA	"		10. 
11	Haruhiko YOSHIDA	JICA	11. 	
12	AOKI Shigemasa	JICA (POSTEL)		12. 
13	NAOTO MATSUDA	JICA Study Team	13. 	
14	Hideji KAJIKAWA	"		14. 
15	JAJKT. S.	TELKOM.	15. 	
				16. _____
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Minutes of Meetings
on
Interim Report
for
The Study on Telecommunications Network Development Plan
for
REPELITA-VI
in
The Republic of Indonesia

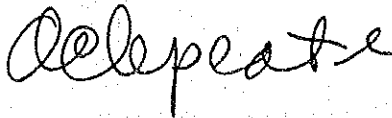
Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Advisory Committee headed by Mr. Osamu Koyama and the JICA Study Team (hereinafter referred to as "the Team") headed by Mr. Hideji Kajikawa to the Republic of Indonesia for presenting and discussing on the contents of the Interim Report for the Study on Telecommunications Network Development Plan for REPELITA-VI (hereinafter referred to as "the Interim Report"), in the joint meeting with officials of MTPT, DGPT, BAPPENAS and P.T. TELKOM, held on 1st and 2nd June, 1992 at the conference room of PUSRENLITBANG, P.T. TELKOM in Bandung. The list of participants is attached herewith.

1. Twenty (20) copies of the Interim Report were submitted by the Team.
2. The contents of the Interim Report including the framework of the development were basically agreed by the Indonesian side. The major results of the discussions are as follows:
 - (1) The demand forecast and the development targets of REPELITA-VI based on 7.0% of GDP growth rate was accepted. In addition to the above, the development targets of REPELITA-VI were established considering availability of fund, human and other resources.
 - (2) For an investment cost estimate, U.S\$ 1,500 should be applied as a unit cost per line unit.
 - (3) A fault rate should be considered and included in the study as a factor of service quality improvement.
 - (4) The data and information rechecked by Indonesian side should be reflected to the study.
 - (5) Non-telephone services demand, especially, data communications demand should be reviewed based on the data to be provided by Indonesian side.
 - (6) Structure of the telecommunications services category should be clearly defined according to the information from Indonesian side.

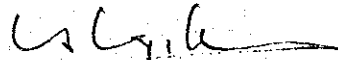
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- (7) The Team was informed that the PALAPA-C system was already decided not equipped the L-Band transponders.
- (8) The border area should be included in the study, and P.T. TELKOM should submit information of the border communications data.
- (9) The study should also cover the identification way how to achieve the target of SCR, and the Team will study the implementation plan for the improvement of SCR.

Bandung, 2nd June 1992



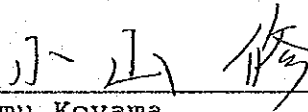
Achadiat Djajawinata
Deputy Director of Planning
Research & Development Center
P.T. Telekomunikasi Indonesia



Hideji Kajikawa
Team Leader
JICA Study Team



Suwito Tjokro
Director of Planning
Directorate General of
Posts & Telecommunications
Department of Tourism,
Posts & Telecommunications



Osamu Koyama
Chairman
JICA Advisory Committee
for the Study

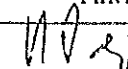
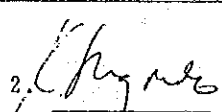

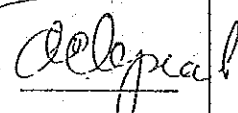
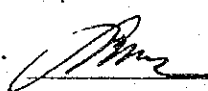
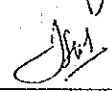

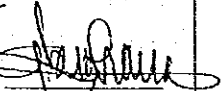
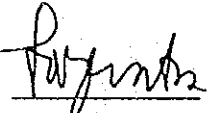


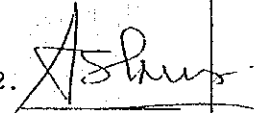
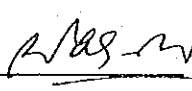

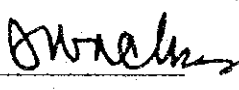
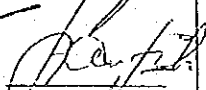



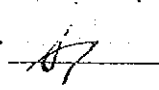
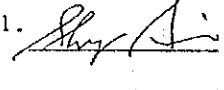


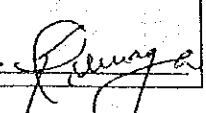


RAPAT : Discussion on Interim Reports (1)

TGL. : 1st June, 1992

JAM : a.m 10:00 ~

TEMPAT : Meeting Room A202, Gegerkalong, Bandung

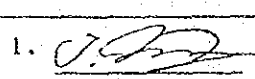
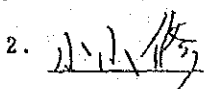
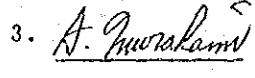

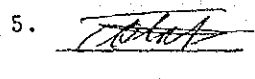
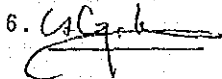

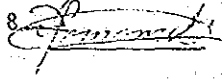

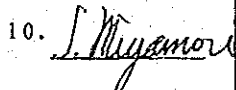

N A M A	I N S T A N S I	TANDA - TANGAN
Budi Santoso	Deppanpostel	1. 
Koemanikati S	Deppanpostel	2. 
Edy Sutriya	Bappenas	3. 
ACHADIAT	TELKOM	4. 
COEKITO R.	TELKOM.	5. 
Suwito Tjokro	DITJEN POSTEL	6. 
GOEDARPO	DITGEN POSTEL	7. 
SUDANA	PUSREKULTUR	8. 
UANG SUPRIATNA	- " -	9. 
BAMBANG S	"	10. 
JAJANT S	- " -	11. 
AGNES ISLANDI	- " -	12. 
WAHYU DIN	- " -	13. 
ASMUDJOJO	- " -	14. 
JAJA WAHJA	- " -	15. 
SALIM PRATI	- " -	16. 
Amo Santoso	- " -	17. 
RAWAN	- " -	18. 
Fatchur Rokhm	- " -	19. 
Supriyanto	- " -	20. 
AOKI SHIGEMARO	POSTEL (JICA)	21. 
YOSHIDA HARUHIKO	JICA Staff	22. 
AIHARA Fujio	JICA Study Team	23. 
SUGIYAMA Ryushi	- " -	24. 

RAPAT : Discussion on Interim Report (2)

TGL. : 1st June, 1992

JAM : a.m 10:00 ~

TEMPAT :

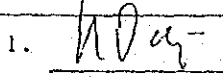


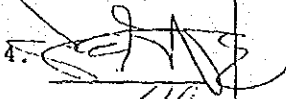
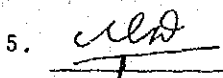

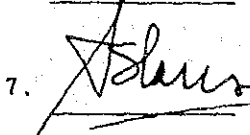


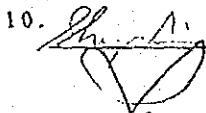
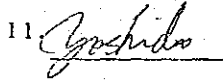
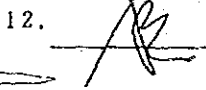
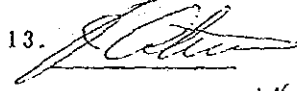
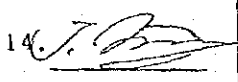
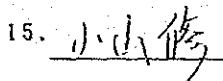
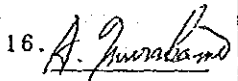
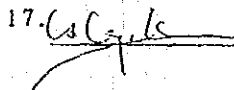

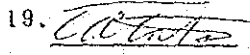
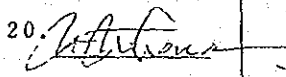

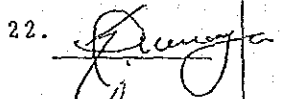
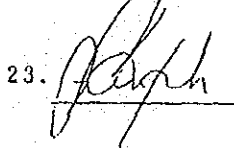
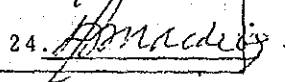
	N A M A	I N S T A N S I	T A N D A - T A N G A N
1	MIURA TABAHEKO	JICA Study Team	1. 
2	KOTAMA OSAMU	JICA Advisory Committee	2. 
3	Akira Murakami	"	3. 
4	Tetsumi AMANO	JICA Study Team	4. 
5	Takayasu OTAKE	"	5. 
6	Hideji KAJIKAWA	"	6. 
7	Noboru MIHARA	"	7. 
8	TOMIO YAMAMOTO	"	8. 
9	TAKAOKI IIDA	"	9. 
10	SIZUYA MIYAMORI	"	10. 
11	BONDAN S	PRANTRASARPEN	11. 
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RAPAT : Discussion on Interim Report

TGL. : 2nd June, 1992 (1)

JAM : a.m 9:00 ~

TEMPAT : Meeting Room A202, Gegerkalong, Bandung


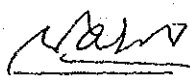
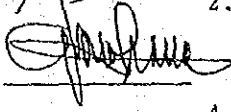


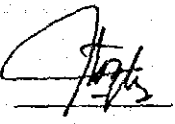
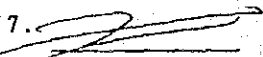

NAMA	INSTANSI	TANDA - TANGAN
Budi Santoso	Dep Parpostal	1. 
ACHADIAT	TELKOM	2. 
Suwito Tyokro	DITJEN POSTEL	3. 
Soedarpo	Ditjen Postel	4. 
Mulyono Dj.	Telkom	5. 
JAJATI S	— " —	6. 
AGOES ISLANDI	— " —	7. 
Arimo Santoso	— " —	8. 
Fatkhur Rokhmah	— " —	9. 
AOKI SHIGEMARO	POSTEL (JICA)	10. 
HARUHIKO YOSHIDA	JICA Staff	11. 
RAWAN	Telkom	12. 
AIHARA Fujio	JICA Study Team	13. 
MIZURA Tadahiko	"	14. 
KOYAMA OSAMU	JICA Advisory Committee	15. 
Akira Murakami	"	16. 
Hideji Kayikawa	"	17. 
Amano Takumi	JICA Study Team	18. 
Takayasu OTAKI	"	19. 
Noboru MIHARA	"	20. 
TAKA AKI IIDA	"	21. 
Ryuichi SUENAGA	"	22. 
Asmu DIBJO	Telkom	23. 
		24. 

RAPAT : Discussion on Interim Report

TGL. : 2nd June, 1992 @)

JAM : a.m 9:00 ~

TEMPAT : Meeting Room A202, Gedung Kalong, Bandung

	N A M A	I N S T A N S I	T A N D A - T A N G A N	
1	BANBAROG SUKMONO	Pusrenbang	1. 	
2	Waluyudi	"		2. 
3	SUTANA	"	3. 	
4	E. SATPUJA	BAPPENAS		4. 
5	ERA	PUSRENUTANAS	5. 	
6	Kishenda	ditkug		6. 
7	M. SADIKIY	SORBITMAS	7. 	
8	AIK MUR	PRANMAS - KTR AWAT		8. 
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Minutes of Discussion
on
The JICA Study
on
Telecommunications Network Development Plan
for
REPELITA-VI
in
The Republic of Indonesia

Following the presentation and discussion of the study results in the Interim Report at MTPT(DEPARPOSTEL) on 8th July 1992, the further discussion in relation to the Scope of Work agreed was made on 16th July 1992 at the conference room of MTPT in Jakarta.

Major issue of the discussion is to coordinate the discrepancy between 3.5 Million Line Unit (MLU) target agreed in the meeting on the Interim Report on 1st and 2nd June 1992 and 5.0 Million LU target which is established by the government based on projected demand by 1999 as per JICA study 1987 and confirmed as a government target in the Workshop of Telecommunications Development with World Bank on 25th and 26th June 1992. Participants of the discussion were from officials of MTPT, DGPT, BAPPENAS, P.T.TELKOM, Embassy of Japan, JICA Jakarta office and JICA study team. The list of participants is attached herewith.

1. MTPT explained current situation and circumstances to the development target of REPELITA-VI and proposed three alternative solutions to coordinate the discrepancy above on development target. (refer to attachment-1)
2. JICA team also proposed how to consider difference of 1.5 MLU between the development targets. (refer to attachment-2)
3. In consequence of the discussion, JICA proposal for 5.0 Million LU in attachment-2 was completely accepted. The major results and confirmation on the discussion are as follows:

(1) The targets of the plan are as follows:

- a) The target recommended by JICA team (pessimistic case)

3.0 MLU: at the end of PELITA-V
3.5 MLU: during REPELITA-VI
6.5 MLU: at the end of REPELITA-VI (accumulation)

- b) The target confirmed as a government policy (optimistic case)
- 3.0 MLU: at the end of PELITA-V
 - 5.0 MLU: during REPELITA-VI
 - 8.0 MLU: at the end of REPELITA-VI (accumulation)

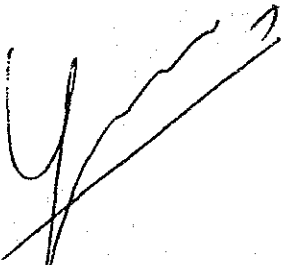
difference of 1.5 MLU between the targets is considered on profitable area by area basis, separated from 3.5 MLU recommended by JICA team as follows:

- 3.5 MLU: exchange by exchange basis study
- 1.5 MLU: area by area basis study

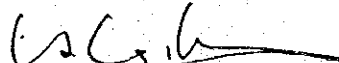
Each area on area by area basis will be hypothetically defined as one area in respective major cities i.e. Jakarta, Surabaya, Bandung, etc.

- (2) Telecommunications network plan is considered as follows:
- a) The capacity of backbone transmission covers total 5.0 MLU during PELITA-VI
 - b) The capacity of junction transmission in the objective areas which are additionally distributed from 1.5 MLU is taken a margin into account.

Jakarta, 22nd July 1992



Ai Mulyadi Mamoer
Head of Planning Bureau
Department of Tourism,
Posts and Telecommunications



Hideji Kajikawa
Team Leader
JICA Study Team

MATERIAL FOR DISCUSSION FOR JICA STUDY
TELECOMMUNICATIONS NETWORK DEVELOPMENT PLAN
FOR REPELITA-VI
16 JULY 1992

(Attachment-1)

1. Scope of Work that has been completed by JICA team as per July 1992 are as follows :
 - a. Collection and Review;
 - b. Field Survey;
 - c. Forecast (Demand, Traffic and Circuit Calculation),
and consumed 53% manmonths available.
2. JICA Study covered on 3.5 million l.u. supply for REPELITA-VI based on PT.TELKOM's man power capability and government financial
3. The government, endorsed by the World Bank, has decided to have target 5.0 million l.u. for REPELITA-VI, whereby :
 - a. 3 million l.u. will be financed by government through :
 - PT.TELKOM Internal Fund;
 - World Bank Loan;
 - ADB Loan;
 - Bilateral Loan;
 - Domestic Loan.
 - b. 2 million l.u. will be financed by private sectors through :
 - Revenue Sharing Scheme;
 - Issue of Bonds;
 - Equity through Joint Venture Arrangements (JVA).
4. Therefore, it is important that study of JICA has to be revised to fulfill the requirement of 5.0 million l.u. during REPELITA-VI.
5. To do the revision, the JICA team request to spend more manmonths.
6. MTPT proposes three alternatives solutions :
 - a. To postpone some items of the Scope of Work, which can be done by JICA in the next financial year, or continue by local company hired by PT.TELKOM. The manmonths saved is used to revisethe volume of 3.5 million l.u. to 5.0 million l.u.;
 - b. To extend the JICA Technical Assistance, adding manmonths, cost and time required to cover 5.0 million l.u.
 - c. To accept JICA's study as it is with 3.5 million l.u. as pessimistic target and 5.0 million l.u. as optimistic target.
However the backbone transmission has to cover 5.0 million l.u. The 3.5 million l.u. will be implemented during the first three years and other 1.5 million l.u. implementation will be done later on by other consultant.

Program

Jakarta, 16 July 1992
Planning Bureau

Proposals by JICA Study Team (Attachment-2)

(for 5.0 M line Network Development Plan)

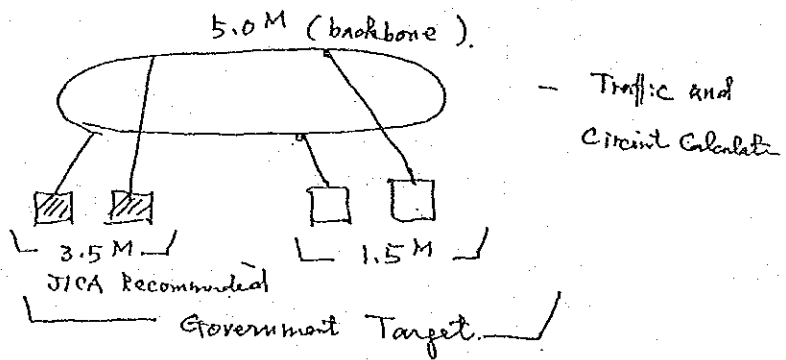
Items in SOW

(1) Target of Plan : $\frac{3.0 M}{\text{End of REPBLITA-V}} + \frac{3.5 M}{\text{JICA Recommended}} + 1.5 M$ (*)

(*) to be distributed to Major Cities (Profitable areas)
(JKT, SB, BD ...)

3.5 M : Exchange-by-Exchange base study
1.5 M : Area-by-Area base study

(2) Telecommunications Network Plan : $3.0 M + 3.5 M + 1.5 M$



(3) O/M Plan : $3.0 M + 3.5 M + 1.5 M$

(4) Project Format : ~~3.0 M~~ $3.5 M + 1.5 M$

(5) Cost Estimates : ~~3.0 M~~ $3.5 M + 1.5 M$

(6) Project Evalunth : ~~3.0 M~~ $3.5 M + 1.5 M$

(7) Installatin Plan : $3.5 M + 1.5 M$

(Facilities Plan)

(8) Implementat Program : $3.5 M + 1.5 M$

D A F T A R H A D I R

TANGGAL : 16. July 1992
 ACARA RAPAT : JICA Study of REGITA - VI
 PIMPINAN RAPAT : Karo Perencanaan

NO	N A M A	UNIT KERJA (NO. TELEPON)	TANDA TANGAN
1.	AI MULYADI, M	DPPT	<i>ai</i>
2	Ikuya Saito	Embassy of Japan.	<i>Ikuya Saito</i>
3	Hideji KAJIKAWA	JICA Study Team	<i>Hideji</i>
4.	Tatsumi AMANO	"	<i>Tatsumi</i>
5.	SATORU, WATANABE	JICA STAFF.	<i>S.W.</i>
6	AOKI Shuzemaro	POSTAL (JICA)	<i>Shuzemaro</i>
7	Subeki	Postel	<i>Subeki</i>
8	Suwito TIDKRO	Kabupaten Postel	<i>Suwito</i>
9.	Budi Santoro	DUP Parpostel	<i>Budi</i>
10	EDDY SATRIYA	Bappenas	<i>Eddy Satriya</i>
11.	Ululiyono Dj.	Telkom	<i>Ululiyono</i>
12.	ACHADIAT	Telkom	<i>Achadiat</i>
13	KOESMARIHATI, S	Biro - I, DPPT	<i>Koesmarihati</i>

Minutes of Meetings
on
Progress Report
of
The JICA Study on Telecommunications Network Development Plan
for
REPELITA-VI
in
The Republic of Indonesia

The meeting for presenting and discussing on the contents of the Progress Report of the Study on Telecommunications Network Development Plan for REPELITA-VI was held on 25th August 1992 at the conference room of MTPT.


Participants of the meeting were from officials of MTPT, DGPT, BAPPENAS, PT. TELKOM, JICA Jakarta office and JICA study team. The list of participants is attached herewith.

1. Twenty (20) copies of the Progress Report consisting of the following three (3) books were submitted by the study team:
 - (1) VOLUME I : Development Scenario for REPELITA-VI;
 - (2) VOLUME II: Installation Program for REPELITA-VI; and
 - (3) APPENDIXES.
2. The contents of the Progress Report including the framework of the development were basically agreed by the Indonesian side. However, Indonesian side requested the study team to study and consider the following:
 - (1) Further detailed justification of both supply plans for 3.5 and 5.0 million targets together with assumption for each case;
 - (2) Scenarios for telecommunications development in cases for 3.5 and 5.0 million;
 - (3) Sensitivity analysis of corporate financial projection for cases of improvement of operation efficiency, productivity increase by SCR improvement, etc.; and

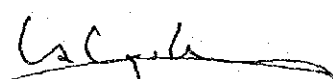
(Page 2)

- (4) Investment scenarios for telecommunications development including private participation and other means.

Jakarta, 26th August 1992



Ai Mulyadi Mamoer
Head of Planning Bureau
Department of Tourism,
Posts and Telecommunications



Hideji Kajikawa
Team Leader
JICA Study Team

DAFTAR HADIR

TANGGAL : Selasa, 25 Agustus 1992

ACARA RAPAT : Presentasi Tim Studi Jica

PIMPINAN RAPAT : Sekretaris Jenderal

NO	N A M A	UNIT KERJA (NO. TELEPON	TANDA TANGAN
1	J. L. PARAPAK	Selijen	
2	H. KAJIKAWA	JICA Study Team	
3	H. ISHIZUKA	"	
4	R. SUENAGA	"	
5	K. EGUCHI	"	
6	T. MIURA	"	
7	Satoru WATANABE	JICA office	
8	ACHADIAT	TELKOM	
9	SUWITO JOKRO	DITJEN POSTEL	
10	AOKI SHIGEMARO	DG. POSTEL (JICA)	
11	Subari	Ditjen Intel	
12	OTAKE / I	JICA Study Team	
13	AMANO / T.	"	
14	Budisantoso	RD. Ren. DPPT	
15	RUDI TRIDJOKO	ENDOSAT	
16	EONY SATRIYA	BAPPENAS	
17	SOEGIHARDO	DITJEN POSTEL	
18	A. A. NASUTION	PT. TELKOM	
19	BE SIMATUPANG	"	
20	AI MULYADI	DPPT	
21	KOESMARHATI S	DPPT	

DAFTAR HADIR
TANGGAL :
ACARA RAPAT :
PIMPINAN RAPAT :

NO	N A M A	UNIT KERJA (NO. TELEPON)	TANDA TANGAN
22	IMAM SURUPTO	BAG. PEMB.	<i>[Signature]</i>
23	B. SULISTYO	INDOSAT 380 1362	<i>[Signature]</i>
24	A. Ph. Diiwatambel	Direksi Postel	<i>[Signature]</i>
25	SUHANA	DEP. PARPOSTEL	<i>[Signature]</i>
26	H. FUSMIRI	INDOSAT/BJR	<i>[Signature]</i>

Minutes of Meeting
on
Draft Final Report
of
The JICA Study on Telecommunications Network Development Plan
for
REPELITA-VI
in
The Republic of Indonesia

The meeting for presenting and discussing on the contents of the Draft Final Report of the Study on Telecommunications Network Development Plan for REPELITA-VI was held on 13th November 1992 at the conference room of MTPT.

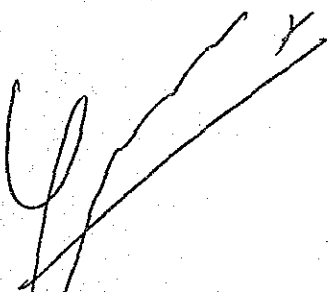
Participants of the meeting were from officials of MTPT, DGPT, BAPPENAS, PT. TELKOM, PT. INDOSAT, Japanese Embassy, JICA Jakarta office, JICA Advisory Committee for the study and JICA study team. The list of participants is attached herewith.

1. The following complete sets of the Draft Final Report were submitted by the study team in accordance with the scope of work:
 - (1) SUMMARY (20 copies);
 - (2) VOLUME I (Main Report, 20 copies);
 - (3) VOLUME II (Implementation Program, 20 copies);
 - (4) VOLUME III (Project List & Digest, 20 copies); and
 - (5) DATA BOOK (5 copies).

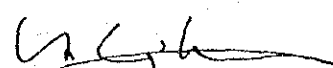
2. The contents of the Draft Final Report including the Implementation Plan were basically agreed by the Indonesian side. In addition, both sides confirmed as follows:
 - (1) The development target of 5.0 MLU for REPELITA-VI is justified as viable, feasible and implementable subject to necessary measures to be taken such as:
 - a) Equity investment;
 - b) Tariff adjustment;
 - c) Efficiency improvement; and
 - d) Special policy for rural development.

- (2) As for mobile telephone service, the detailed survey was not included in this study. However, radio based subscribers including mobile telephone subscribers would be substitute for conventional telephone service subject to proper tariff system and other service provision conditions. 5.0 MLU target is possible to include certain amount of the above mentioned radio based subscriber lines.
- (3) This study is for domestic telecommunications network development plan for REPELITA-VI with an assumption of a whole domestic basic telecommunications services operated by one agency.
3. Indonesian side requested the study team to state the above items 2.(1) and 2.(2) in the Final Report clearly. The study team agreed the request. Incorporation of the above item 2.(1) includes revision of Financial Evaluation of the Project and Table 1-9-4 in Section 9 in the Draft Final Report.
4. Comments submitted before 15th December 1992 will be taken into consideration.


Jakarta, 16th November 1992



Ai Mulyadi Mamoer
Head of Planning Bureau
Department of Tourism,
Posts and Telecommunications



Hideji Kajikawa
Team Leader
JICA Study Team



Kaoru Suzuki
Chairman
JICA Advisory Committee
for the Study

TANGGAL : 13. November 1992
 ACARA RAPAT : Presentasi JICA.
 PIMPINAN RAPAT : Bapak Sekretaris Jenderal

NO	N A M A	UNIT KERJA (NO. TELEPON)	TANDA TANGAN
1.	J. L. PARAPAK	SEKJEN	
2.	IR. SUTAWA	SATI	
3.	AI MULYADI	DPPT	
4.	EDDY SATRIYA	BAPPENAS / 334683	
5.	D. Iskandar	Ditjen Postel	
6.	SATWAN N.	INDOSAT	
7.	LUDI PRASETYO	INDOSAT	
8.	Koesmarihati, S	DPPT	
9.	KOENMIARTO	PUSLITBANG	
10.	Muhammadiyah	Kantor Pribadi	
11.	ACHADIAT	TELKOM	
12.	JAJAT SUPRIATNA	- II -	
13.	Utami Supriatna	- II -	
14.	ISMARA NIKELAS	DIT BAW STANDAR	
15.	SOFYAN A. M.	INDOSAT	
16.	ARMEAN F	Ditjen Postel	
17.	SASOTYA PRATAMA	INDOSAT	
18.	Bonnie. Wahid M.H.	Ditjen Postel	
19.	HARTONO M. SAMRAN	KO VII DPPT	
20.	Imron Harun	INDOSAT	
21.	Baguslay H	Biro Res.	

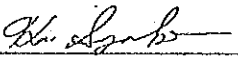
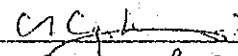
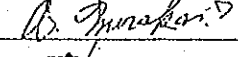
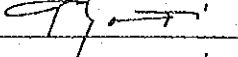
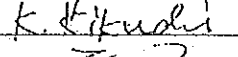
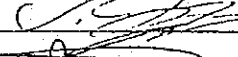
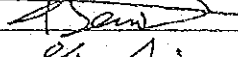
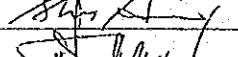
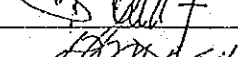
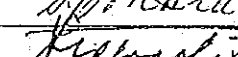
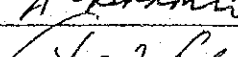
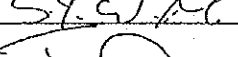
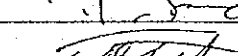
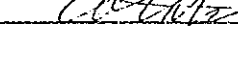
Biro Perencanaan

22 Soedarpo

PT. Telkom

D A F T A R H A D I R

TANGGAL :
 ACARA RAPAT :
 PIMPINAN RAPAT :

NO	N A M A	UNIT KERJA (NO. TELEPON)	TANDA TANGAN
	Kaoru Suzuki	JICA Advisory Com.	
	KAJIKAWA/Hidep	JICA Study Team	
	Akira Murakami	JICA Advisory (committee)	
	Yamazaki, Takao	JICA Advisory Com.	
	KAZUHIKO KIKUCHI	JICA Advisory Com.	
	Tadahiko MIURA	JICA Study Team	
	Ikuya Saito	Embassy of Japan	
	AOKI SHIGEMARO	POSTAL (JICA)	
	UNDANG SUTARJA.	TELKOM	
	ASMUDIJO	TELKOM	
	SOERABOT	ITJEN.	
	SATORU WATANABE	JICA office	
	AMANO. T.	JICA Study Team	
	OTAKE I	"	

Biro Perencanaan

ANNEX 2

LIST OF DATA COLLECTED

PEMBANGUNAN (DEVELOPMENT)

No.	Title	Published by	Issued date	Original/ Copy	Pages
1.	THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN FOR THE SOUTHERN PART OF SUMATRA INTERIM REPORT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		COPY	254
2.	PEMBANGUNAN ACEH DALAM ANGKA	DEWAN PIMPINAN DAERAH TK I GOLONGAN KARYA D.I. ACEH	MEI 1992	ORIGINAL	192
3.	TATA RUANG WILAYAH IRIAN JAYA 1991 - 2006	PEMERINTAH PROPINSI DAERAH TINGKAT I IRIAN JAYA	FEB. 1991	ORIGINAL	118
4.	PADANG TOURISM DEVELOPMENT CORP. GUNUNG PADANG and PANTAI AIR MANIS AREA TOURISM DEVELOPMENT PROJECT	PACET CORP. in association with CONSORTIUM of PT.TEAM 4 and PT.MULTI PLASICSONS	JULY 1991	COPY	
5.	DATA BALI MEMBANGUN 1990	BAPPEDA TKT.I BALI	APRIL 1991	ORIGINAL	339
6.	PROGRAM PEMBANGUNAN PELITA - V	PERUMTEL - DIREKTORAT PEMBANGUNAN	1 MEI 1991	ORIGINAL	
7.	STRATEGIC DEVELOPMENT PLAN for DATA COMMUNICATION			COPY	
8.	RENCANA KERJA SYARAT-SYARAT PEKERJAAN PEMBANGUNAN JARINGAN KABEL SERAT OPTIK JAKARTA	INDOSAT		COPY	
9.	MATERI RAPAT KERJA WITEL IV JAKARTA BIDANG PEMBANGUNAN		TAHUN 1992	COPY	

EKONOMI (ECONOMIC)

No.	Title	Published by	Issued date	Original/ Copy	Pages
1.	PRODUK DOMESTIK REGIONAL BRUTO PROPINSI DAERAH TINGKAT I BALI 1985-1990	Kerjasama : BAPPEDA TKT. I BALI, FAK. EKONOMI UNUD dan KANTOR STATISTIK PROPINSI BALI	FEB. 1992	ORIGINAL	35
2.	INDIKATOR EKONOMI SUMATERA SELATAN 1990	BAPPEDA TKT. I SUMATERA SELATAN	NOV. 1991	ORIGINAL	187
3.	PENDAPATAN REGIONAL PROPINSI SUMATERA BARAT 1983-1990	Kerjasama : BAPPEDA TKT. I SUM. BARAT KANTOR STATISTIK PROP. SUM. BARAT	OCT. 1991	ORIGINAL	26
4.	INDIKATOR EKONOMI SUMATERA UTARA 1990	Kerjasama : KANTOR STATISTIK PROP. SUM. UTARA dengan BAPPEDA TKT. I SUM. UTARA	JUL. 1991	ORIGINAL	294
5.	PRODUK DOMESTIK REGIONAL BRUTO KABUPATEN DAN KOTAMADYA PROVINSI SUMATERA BARAT 1983-1989	Kerjasama : BAPPEDA TKT. I SUM. BARAT KANTOR STATISTIK PROP. SUM. BARAT	AUG. 1991	ORIGINAL	142
6.	SURVEI SOSIAL EKONOMI NASIONAL (SUSENAS) 1990 PENDIDIKAN, KESEHATAN DAN KONSUMSI/ PENGELUARAN RUMAH TANGGA SUMATERA BARAT	KANTOR STATISTIK PROP. SUM. BARAT	MAR. 1991	ORIGINAL	64
7.	PRODUK DOMESTIK REGIONAL BRUTO SUMATERA SELATAN 1990	BAPPEDA TKT. I SUM. SELATAN PALEMBANG	NOV. 1991	ORIGINAL	71
8.	PENDAPATAN REGIONAL PROPINSI SUMATERA UTARA TAHUN 1983-1990	Kerjasama : KANTOR STATISTIK PROP. SUM. UTARA BAPPEDA TKT. I SUM. UTARA dan LEMBAGA RISET DAN PENGABDIAN MASYARAKAT FAK. EKONOMI USU	DES. 1991	ORIGINAL	84
9.	PENGELUARAN UNTUK KONSUMSI PENDUDUK INDONESIA per PROPINSI 1990 (Expenditure for Consumption of Indonesia per Province 1990)	BIRO PUSAT STATISTIK JAKARTA-INDONESIA	JAN. 1992	ORIGINAL	455
10.	PENDAPATAN REGIONAL PROPINSI DI INDONESIA MENURUT LAPANGAN USAHA 1983-1989 (REGIONAL INCOME OF PROVINCES IN INDONESIA BY INDUSTRIAL ORIGIN)	BIRO PUSAT STATISTIK JAKARTA-INDONESIA	JUL. 1991	ORIGINAL	71
11.	PENDAPATAN REGIONAL PROPINSI DAERAH ISTIMEWA ACEH 1983-1990	KANTOR STATISTIK PROP. DAERAH ISTIMEWA ACEH	NOV. 1991	ORIGINAL	70
12.	PENDAPATAN REGIONAL PROPINSI IRIAN JAYA TAHUN 1986-1990	Kerjasama : KANTOR BAPPEDA TKT. I dan KANTOR STATISTIK PROPINSI IRIAN JAYA	DES. 1991	ORIGINAL	195
13.	PENDAPATAN REGIONAL KABUPATEN & KOTAMADYA PROPINSI MALUKU 1990	Kerjasama : KANTOR STATISTIK PROPINSI MALUKU dan BAPPEDA DATI I MALUKU	DES. 1990	ORIGINAL	79
14.	PERKEMBANGAN PENANAMAN MODAL (PMDN/PMA) DI BALI dari tahun 1967 s/d 31 Des. 1991	BADAN KOORDINASI PENANAMAN MODAL DAERAH PROPINSI DAERAH TKT. I BALI	2 JAN. 1992	COPY	204
15.	INCREMENTAL CAPITAL OUTPUT RATIO (ICOR) PROPINSI MALUKU TAHUN 1990	Kerjasama : KANTOR STATISTIK PROPINSI MALUKU dan BAPPEDA DATI I MALUKU	MAR. 1992	ORIGINAL	17
16.	INDIKATOR EKONOMI PROPINSI DAERAH ISTIMEWA ACEH 1990	KANTOR STATISTIK PROPINSI D.I. ACEH	AUG. 1991	ORIGINAL	141
17.	MALUKU DALAM ANGKA 1990	KANTOR STATISTIK PROPINSI MALUKU	OCT. 1991	ORIGINAL	690
18.	ACEH DALAM ANGKA 1990 (ACEH IN FIGURES)	Kerjasama : BAPPEDA DAN KANTOR STATISTIK PROPINSI DAERAH ISTIMEWA ACEH	JUN. 1991	ORIGINAL	633

EKONOMI (ECONOMIC)

No.	Title	Published by	Issued date	Original/ Copy	Pages
19.	IRIAN JAYA DALAM ANGKA 1990	Kerjasama : BAPPEDA TINGKAT I KANTOR STATISTIK PROP. IRIAN JAYA	NOV. 1991	ORIGINAL	317
20.	PENDAPATAN NASIONAL INDONESIA 1985-1990 (NATIONAL INCOME of INDONESIA)	BIRO PUSAT STATISTIK JAKARTA-INDONESIA	OCT. 1991	ORIGINAL	98
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65.	RENCANA PEMBANGUNAN LIMA TAHUN KE-5 1989/90 - 1993/94 (III)	PEMERINTAH DAERAH PROPINSI DATI I SUMATERA SELATAN	7 MARET 1989	ORIGINAL	11
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5.	SURVEY RESULT of CORPORATE COMMUNICATION	ASIAN ISDN COUNCIL	APRIL 1992	ORIGINAL	
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11.	TELECOMMUNICATIONS AS THE SOCIAL BRIDGE IN NATIONAL DEVELOPMENT	HEAD OFFICE of TELECOMMUNICATION	TAHUN 1991	COPY	100
12.	PETUNJUK PELAKSANAAN PROSEDUR MENGATASI GANGGUAN TELEKOMUNIKASI	PT. TELKOM		ORIGINAL	
13.	ATTACHMENT TO FUNDAMENTAL TECHNICAL PLAN 1985 SECURITY AND AVAILABILITY PLAN	DIRECTORATE GENERAL OF POSTS AND TELECOMMUNICATIONS MINISTRY OF TOURISM, POSTS & TELECOMMUNICATIONS			
14.	THE STRATEGIC OPTIONS OF TELECOMMUNICATIONS BUSINESS IN ENHANCING QUALITY OF SERVICE	PT. TELKOM and NIPPON TELECOMMUNICATIONS CONSULTING CO., LTD.	JANUARY, 1992	COPY	195
15.	MINISTRY OF TOURISM, POSTS AND TELECOMMUNICATIONS		JANUARY, 1992	COPY	66
16.	STRENGTHENING THE TELECOMMUNICATIONS REGULATORY & ANALYTICAL CAPABILITIES of the DGPT and REVEIWING TELECOMMUNICATIONS SECTOR POLICIES		DEC. 20, 1991	COPY	
17.	THE STUDY ON TELECOMMUNICATIONS NETWORK DEVELOPMENT PLAN FOR REPELITA - VI	THE NIPPON TELECOMMUNICATIONS CONSULTING CO., LTD.	JUNE 1992	COPY	9
18.	WHAT DO YOU FOREIGN OPERATING COMPANIES WANT? WHAT CAN THEY DO? .	MINISTRY OF TOURISM, POSTS AND TELECOMMUNICATIONS PT. TELEKOMUNIKASI INDONESIA THE WORLD BANK	11- 12 DES 1991	COPY	
19.	TELECOMMUNICATIONS SERVICES TODAY AND USER'S EXPECTATION		11- 12 DES 1991	COPY	

TRANSMISI (TRANSMISSION)

No.	Title	Published by	Issued date	Original/ Copy	Pages
1.	EXISTING TERRESTIAL ROUTE TRANSMISI				
2.	TRANSMISSION ROUTE MAP DAN JUNCTION EXCHANGE AREA	PT. TELKOM DIREKTORAT PEMBANGUNAN SUB DIREKTORAT BINA PROGRAM PEMBANGUNAN BAGIAN BINA PROGRAM SISTEM	AGUSTUS 1991	COPY	
3.	TRANSMISSION ROUTE MAP by SECONDARY AREA	PERUMTEL PROGRAM MANAGEMENT CONSULTANT	MARCH, 1990	COPY	

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3.	TRANSMISSION ROUTE MAP by SECONDARY AREA	PERUMTEL PROGRAM MANAGEMENT CONSULTANT	MARCH, 1990	COPY	

COLLECTED DATA LIST WITEL I

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.		STAFF COMPOSITION & PRODUCTIVITY
2.	REKAPITULASI PEGAWAI WITEL I MENURUT GOLONGAN, KORP & JENIS KELAMIN	COMPOSITION OF STAFF, BASED ON, CORP & SEX
3.	URAIAN TUGAS & SEBUTAN NAMA ORGANISASI KANDATEL MEDAN	JOB DESCRIPTION & ORGANIZATION CHART OF KANDATEL MEDAN
4.	DAFTAR NAMA JABATAN	LIST OF POSITION & NAME OF PERSONEL
5.	PROGRAM PEMBANGUNAN PELITA V EDISI JULI 1990	PELITA V DEVELOPMENT PROGRAM JULY 1990 EDITION
6.	DAFTAR LANGGANAN SKDP MEDAN & LC	LIST OF SKDP & LC SUBSCRIBER AT MEDAN
7.	LAPORAN REALISASI PEMBANGUNAN : A. SARANA PENUNJANG B. SENTRAL TELEPON C. TRANSMISI D. JARINGAN KABEL	DEVELOPMENT IMPLEMENTATION REPORT : A. SUPPORTING FACILITIES B. SWITCHING C. TRANSMISSION D. OUTSIDE PLAN
8.	WITEL I A. GRAFIK PEMBANGUNAN STO/JARKAB PV B. PROGRAM PEMBANGUNAN SISTEM TELEKOMUNIKASI	WITEL I A. GRAFIC OF SWITCHING AND OUTSIDE PLAN DEVELOPMENT B. SYSTEM OF TELECOMMUNICATION DEVELOPMENT PLAN
9.	A. LAPORAN TELEGRAM INDAH REGULER B. DATA POTENSI DAN PRODUKSI SKDP, KOMRAD & PDUU C. DATA PENJUALAN SAMBUNGAN TELEPON OTOMAT, MANUAL & TELEX D. DATA OPERASIONAL JASA LAIN E. PRODUKSI TELEX F. ALAT PRODUKSI TELEX G. PRODUKSI TELEGRAF MELALUI WARTEL H. PRODUKSI TELEGRAF I. PRODUKSI TELEPON INTERNASIONAL (DARI WARTEL) J. PRODUKSI TELEPON ANTAR DAERAH DARI WARTEL K. PRODUKSI DAN PENDAPATAN TELEPON	A. REPORT OF TELEGRAM INDAH B. PLAN RECORD AND PRODUCTION OF SKDP, KOMRAD AND PAGER C. MARKETING DATA OF AUTOMATIC AND MANUAL TELEPHONE & TELEX D. OPERATION DATA AND OTHERS SERVICES E. PRODUCTION OF TELEX DATA F. PRODUCTION OF TELEX EQUIPMENT G. PRODUCTION OF TELEGRAF VIA WARTEL H. PRODUCTION OF TELEGRAF I. PRODUCTION OF INTERNATIONAL CALL VIA WARTEL J. PRODUCTION OF TRUNK CALL VIA WARTEL K. PRODUCTION & INCOME OF TELEPHONE CALL
10.	A. ROUTING PLAN ANTAR SC SAMPAI 1995 B. SIRKIT BERDASARKAN KONFIGURASI TAHUN 1992 C. PERAMALAN TRAFFIK TAHUN 1995 D. PERAMALAN KEBUTUHAN SIRKIT BERDASARKAN KONFIGURASI TAHUN 1995	A. ROUTING PLAN SC-SC UNTIL 1995 B. CIRCUIT TRUNK BASED ON CONFIGURATION IN 1992 C. TRAFFIC DEMAND IN 1995 D. CIRCUIT DEMAND FORECAST BASED ON CONFIGURATION IN 1995
11.	TLP, TGP, AND TELEX TRAFFIC	TLP, TGP, AND TELEX TRAFFIC
12.	DATA POTENSI KANAL TRANSMISI SATELIT	CHANNEL OF SATELLITE TRANSMISSION DATA
13.	DAFTAR POTENSI JARINGAN KABEL LOKAL	LIST OF LOCAL OUTSIDE PLAN DATA
14.	LAYOUT STASIUN TRANSMISI	LAYOUT OF TRANSMISSION STATION
15.	DAFTAR LOKASI KANDATEL/TRANSMISI	LIST OF TRANSMISSION LOCATION
16.	DATA POTENSI SENTRAL TELEPON	SWITCHING EQUIPMENT DATA
17.	DATA POTENSI SKDP	SKDP'S DATA
18.	RISALAH RAPAT PERSIAPAN PEMBANGUNAN STKB--N PHASE II	MEETING SUMMARY ABOUT PREPARATION OF STKB--N DEVELOPMENT
19.	DAFTAR PERANGKAT CATU DAYA & TEHNIK UMUM	LIST OF POWER PLAN & THE OTHERS EQUIPMENT
20.	POTENSI SAMBUNGAN TLP	TELEPHONE SUBSCRIBER DATA

COLLECTED DATA LIST WITEL II

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.	STRUKTUR ORGANISASI WITEL II	ORGANIZATION CHART WITEL II
2.	JUMLAH PEGAWAI DI WITEL II	THE AMOUNT OF EMPLOYEES IN WITEL II
3.	KOMPOSISI PEGAWAI & PRODUKTIVITAS 1986 - 1991	STAFF COMPOSITION & PRODUCTIVITY 1986 - 1991
4.	JUMLAH PEGAWAI MENURUT PANGKAT & KORPS POSISI 31 DES 1991	THE AMOUNT OF STAFF BASED ON RANK & CORPS ON DEC 31, 1991
5.	PELAYANAN TELKOM MASA DATANG (SELAIN TELEPON, TELEX, TELEFAX) POSISI 22 APRIL 1992	ADVANCED TELECOMMUNICATION SERVICES (EXCLUDING TELEPON, TELEX, TELEFAX) ON APRIL 22, 1992
6.		SITE AND DEVELOPMENT INFORMATION RELATED TO TELECOM-IV PROJECT
7.	BIDANG OPERASI & MAINTENANCE 1. STAF O & M 2. PENGADAAN & PEMELIHARAAN SUKU CADANG 3. SISTEM MANAJEMEN PENCATATAN FASILITAS 4. SISTEM PENCATATAN GANGGUAN & PERBAKAN 5. SISTEM LAPORAN O & M	OPERATION & MAINTENANCE 1. O & M STAFF 2. PROCUREMENT & MAINTENANCE OF SPARE 3. FACILITY RECORD MANAGEMENT SYSTEM 4. FAULT RECORD & REPAIR SYSTEM 5. O & M REPORT SYSTEM
8.	DAFTAR LAPORAN TEKNIS JARINGAN KABEL	THE LIST OF CABLE NETWORK TECHNICAL REPORT
9.	DAFTAR MODEL PELAYANAN GANGGUAN PELANGGAN	THE LIST OF FAULT SERVICES MODEL
10.	TINDAKAN UNTUK MENGATASI GANGGUAN PERPU TOTAL STATION TRANSMISI TERESTRIAL	THE ALGORITHM TO UNDERTAKE DISCONNECTED FAULT AT THE TERRESTRIAL TRANSMISSION STATION
11.		MICROSCOPIC DEMAND FORECAST (BASED ON STUDY FROM ANDALAS UNIVERSITY & RIAJ UNIVERSITY)
12.	DAFTAR TUNGGU WITEL II	THE WAITING LIST WITEL II
13.	STAFF OPERASI & PEMELIHARAAN	NUMBER OF STAFF O & M
14.	TRAFIK TELEPON, TELEGRAP & TELEX 96 - 91	TELEPHONE, TELEGRAPH & TELEX TRAFFIC
15.	TRAFIK ROUTINE SC - PC (FEB 92) A. KANDATEL PADANG B. KANDATEL PAKANBARU C. KANDATEL BATAM	SC - PC ROUTING TRAFFIC (FEB 92) A. KANDATEL PADANG B. KANDATEL PAKANBARU C. KANDATEL BATAM
16.	TRAFIK ROUTING SC - PC WITEL II (FEB 92)	SC - PC ROUTING TRAFFIC (FEB 92)
17.	ESTIMASI KONDISI TRAFFIK 1992	TRAFFIC ESTIMATION 1992
18.	ESTIMASI KEBUTUHAN SIRKIT 1992	CIRCUIT DEMAND ESTIMATION 1992
19.	KONFIGURASI NETWORK WITEL II	NETWORK CONFIGURATION OF WITEL II
20.	JARINGAN DIAGRAM	NETWORK DIAGRAM
21.	PETA JARINGAN WITEL II	NETWORK MAP WITEL II
22.	ROUTING SLJJ EXISTING WITEL II	THE EXISTING SLJJ ROUTING
23.	PENCAPAIAN SCR (FEB 92)	SCR DATA (FEB 92)
24.	DAFTAR LAPORAN BERKALA	THE PERIODIC REPORT LIST
25.		MAP OF : A. DIGITAL MICROWAVE B. TRANS SUMATRA MICROWAVE SYSTEMS A/O C. REMOTE AREA DIGITAL MICROWAVE SYSTEM D. U.H.F SYSTEM E. BASE STATION SLJJ F. EARTH STATION G. HF SYSTEM H. TRANSMISSION (BATAM)
26.	JANGKAUAN FAS TEL. SAMPAI DENGAN DAERAH KECAMATAN	TELECOMMUNICATION FACILITY UNTIL KECAMATAN AREA
27.	DATA POTENSI KANAL TRANSMISI TERESTRIAL	TERRESTRIAL TRANSMISSION CHANNEL RECORD

COLLECTED DATA LIST WITEL II

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
28.	DATA EXISITING SENTRAL TELEPON	TELEPHONE SWITCHING EXISTING DATA
29.	DATA PERANGKAT TRANSMISI TERRESTIAL	TERRESTRIAL TRANSMISSION EQUIPMENT DATA
30.	DAFTAR PERANGKAT MULTIPLEX DIGITAL (PCM)	DIGITAL MULTIPLEX EQUIPMENT (PCM) LIST
31.	DATA ALOKASI KANAL TRANSMISI TERRESTRIAL	TERRESTRIAL TRANSMISSION CHANNEL ALOCATION DATA
32.	RENCANA PENGEMBANGAN	PLAN RECORD
33.		TERRESTRIAL TRANSMISSION SYSTEM DESCRIPTION WITEL II
34.	DATA SARANA PENUNJANG MENARA & ANTENA	SUPPORTING FACILITY OF TOWER & ANTENNA
35.	DATA PERANGKAT TRANSMISI TERRESTRIAL	TERRESTRIAL TRANSMISSION EQUIPMENT DATA
36.	RENCANA PENCATATAN SAMBUNGAN KABEL	PLAN RECORD FOR JUNCTION CABLE
37.	DATA TRANSMISI SATELIT	SATELLITE TRANSMISSION DATA
38.	LAPORAN EVALUASI PEMBANGUNAN WITEL II	THE BOOK OF DEVELOPMENT EVALUATION REPORT WITEL II
39.	STATISTIK TELEKOMUNIKASI WITEL II	TELECOMMUNICATIONS STATISTICAL WITEL II BOOK
40.	DIESEL GENSET DATA	DATA GENSET DIESEL

COLLECTED DATA LIST WITEL III

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.		ORGANIZATION CHART AND PERSONEL'S NAME EACH KANDATEL
2.	PERKEMBANGAN JUMLAH PEGAWAI, SATPAM DAN TPP	STAFF COMPOSITION AND PRODUCTIVITY (EMPLOYEES BY CATEGORY)
3.	PLANNING SYSTEM	PLANNING SYSTEM
4.	PROGRAM PEMBANGUNAN SENPON	SWITCHING DEVELOPMENT PLAN (DEMAND FORECAST UNTIL 2000)
5.	HASIL SURVEY TRAFFIK	TOUR OF DUTY'S REPORT : MULTY EXCHANGE TRAFFIC TRAFFIC FLOW SURVEY
6.	HASIL SURVEY TRAFFIK	THE RESULT OF TRAFFIC SURVEY IN BANDARLAMPUNG
7.	TRAFFIC RECORDS (AVERAGE CALLING RATE IN PALEMBANG)	TRAFFIC RECORDS (AVERAGE CALLING RATE IN PALEMBANG)
8.	PETA PROPINSI JB, BKL, SUMSEL DAN LAMPUNG (DEMAND FORECAST)	MAP OF TELEPHONE DEMAND FORECAST WITEL III
9.	PETA LAMPUNG (KAPASITAS SENTRAL, SST DAN DAFTAR TUNGGU)	MAP : SWITCHING CAP, SUBSCRIBER & WAITING LIST OF LAMPUNG
10.	PETA JAMBI (KAPASITAS SENTRAL, SST DAN DAFTAR TUNGGU)	MAP : SWITCHING CAP, SUBSCRIBER & WAITING LIST OF JAMBI
11.	PETA BENGKULU (KAPASITAS SENTRAL, SST DAN DAFTAR TUNGGU)	MAP : SWITCHING CAP, SUBSCRIBER & WAITING LIST OF BENGKULU
12.	DAFTAR LANGGANAN SKOP WITEL III & LC	LIST OF SKOP AND LC SUBSCRIBER OF WITEL III
13.	DATA POTENSI RADIO LINK UHF/VHF DAN DIGITAL	RADIO LINK UHF & VHF ANALOG AND DIGITAL
14.	SIMPOTEX (YAN 1 - YAN 14) TERDIRI DARI : POTENSI DAN PRODUKSI JASA TELEKOMUNIKASI	OPERATION MANAGEMENT INFORMATION SYSTEM CONSIST OF : PRODUCTION AND PRODUCTION OF EQUIPMENT : ALL AF SERVICES
15.	FASILITAS TELEKOMUNIKASI IKC DI WITEL III	INFORMATION ABOUT TELECOMMUNICATION FACILITIES IN EACH IKC
16.	PROGRAM PEMBANGUNAN JARKAB PELITA V	OUTSIDE PLAN DEVELOPMENT PLAN PELITA V
17.	REKAPITULASI PEMBANGUNAN TAHUN 1992	SUMMARY OF DEVELOPMENT IMPLEMENTATION 1992
18.	DATA DATA PERENCANAAN PEMBANGUNAN	DEVELOPMENT PLAN'S DATA
19.	LAPORAN PELAKSANAAN WORKSHOP TRAFFIC I/1992	SUMMARY OF WORKSHOP OF TRAFFIC I/1992

COLLECTED DATA LIST WITEL IV

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.	BOUNDARY AKIBAT PEMBANGUNAN STO BARU	NEW BOUNDARY RESULTING DEVELOPMENT NEW EXCHANGES
2.	WITEL IV DALAM ANGKA TRIWULAN III TAHUN 1991	WITEL IV THIRD QUARTELY 1991 REPORT
3.	PROGRAM PEMBANGUNAN WITEL IV	WITEL IV DEVELOPMENT PROGRAM
4.	FINAL REPORT STUDI POLA PENGENDALIAN TELEKOMUNIKASI	STUDY FINAL REPORT FOR CONTROLLE PATTERN TELECOMMUNICATION CITIZEN IN DKI JAKARTA

COLLECTED DATA LIST WITEL V

NO.	DATA NAME (IN INDOONESIA)	NOTE (IN ENGLISH)
1.	PEMELIHARAAN DAN OPERASI	OPERATION AND MAINTENANCE (O & M)
2.	ORGANISASI	ORGANIZATION
3.	DISTRIBUSI SDM WITEL V BOSRK KORP TEK & NONTEx POSISI MARET 92	DISTRIBUTION SDM OF WITEL V BOSRK CORP TECHNIK & NON TECHNIK POSITION MARCH 92
4.	PENDIDIKAN UMUM SDM WITEL V	GENERAL EDUCATION SDM OF WITEL V
5.	EFFESIENSI SDM WITEL V POSISI MARET 1992	EFFICIENCY SDM OF WITEL V POSITION MARCH, 1992
6.	JUMLAH SELURUH KARYAWAN WITEL V MENURUT PEMBIDANGANNYA PERPENDIRIAN WITEL V	AMOUNT ALL STAFF WITEL V ACCORDING TO ESTABLISHMENT OF WITEL V
7.	JUMLAH SELURUH KARYAWAN WITEL V MENURUT GOLONGAN PERPENDIRIAN DI WITEL V TAHUN 1997	AMOUNT ALL STAFF WITEL V ACCORDING GRUOP TO ESTABLISMNET WITEL V YEAR 1997
8.	JUMLAH SELURUH KARYAWAN WITEL V MENURUT BIDANGNYA PERPENDIRIAN DI WITEL V TAHUN 1997	AMOUNT ALL STAFF WITEL V ACCORDING TO ESTABLISHMENT WITEL V YEAR 1997
9.	KARYAWAN MENURUT KORP PERPENDIRIAN DI WITEL V	CORP WORKER ACCORDING TO ESTABLISHMENT WITEL V
10.	JUMLAH KARYAWAN PER GOLONGAN PADA TIAP BIDANG PER U.P.T. TAHUN 1999	AMOUNT OF STAFF GROUP ESTABLISHMENT U.P.T. YEAR 1999
11.	KOMPOSISI KARYAWAN MENURUT BOANG DI WITEL V	COMPOSITION OF STAFF ACCORDING ESTABLISHMENT WITEL V
12.	RATA-RATA PULSA PER PANGGLAN WILAYAH WITEL V	AVERAGE PULSA PER CALL BY ZONA WITEL V
13.	HASIL PENGUKURAN GRADE OF SERVICE	RESULT OF MEASURE GRADE OF SERVICE
14.	POTENSI SAMBUNGAN INDIK/CABANG BERBAYAR & DINAS	POTENSION MASTER EXTENSION/BRANCH TO PAY & SERVICE
15.	PRODUKSI DAN PENDAPATAN PULSA TELEPON OKTOBER 1991 FEBRUARI 1992	PRODUCTION AND INCOME PULSA TELEPHONE OCTOBER 1991 FEBRUARY 1992

COLLECTED DATA LIST WITEL VI

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.	RENCANA OPERASI JARINGAN TELEKOMUNIKASI WITEL VI TAHUN 1992 - 1996	CORPORATE PLAN NETWORK TELECOMMUNICATION WITEL VI YEAR 1992 - 1996
2.	RENCANA JANGKA PANJANG TAHUN 1992 - 1996	COOPERATE PLAN YEAR 1992 - 1996
3.	GUBERNUR KEPALA DAERAH TINGKAT I JAWA TENGAH	
4.	USULAN LOKASI WILAYAH INDUSTRI OLEH DAERAH TINGKAT TERHADAP INGUB NOMOR 560/K/2/1997	
5.	KONFIGURASI NETWORK KANOATEL SEMARANG	CONFIGURATION NETWORK KANOATEL SEMARANG

COLLECTED DATA LIST WITEL VII

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.	CHART ORGANISASI	ORGANIZATION CHART
2.	SISTEM RENCANA	PLANNING SYSTEM
3.	RENCANA PROSEDUR YANG BEREDAR	CURRENT PLANNING PROCEDURE
4.	RENCANA - RENCANA AKHIR YANG SEDANG BERJALAN	FINALIZATION OF PLAN - PLAN & ON GOING PROJECT
5.	RENCANA AKHIR	FINALIZATION OF PLAN
6.	PERKEMBANGAN PELITA V YANG SEDANG BERJALAN	PROGRESS OF PELITA V - ON GOING PROJECT
7.	KATAGORI PEGAWAI O/M	O/M STAFF BY CATAGORY
8.	PENGADAAN DAN PEMELIHARAAN SUKU CADANG	PROCUREMENT AND MAINTENANCE OF SPARE
9.	PENCATATAN GANGGUAN	FAULT RECORDS
10.	PENCATATAN GANGGUAN	FAULT RECORDS
11.	PRAKIRAAN MIKROSKOPK	MICROSCOPIC DEMAND FORECAST
12.	PRAKIRAAN MIKROSKOPK	MICROSCOPIC DEMAND FORECAST
13.	PRAKIRAAN PENDAPATAN/KAPITA MIKROSKOPIK	MICROSCOPIC DEMAND FORECAST
14.	KEMAJUAN TELKOM	ADVANCE TELCOM
15.	KEMAJUAN TELEKOMUNIKASI	ADVANCE TELCOM SERVICE
16.	PENCATATAN TRAFFIK (PULSA ATAU PEMANGGILAN)	TRAFFIC RECORD (PULSES OR CALL)
17.	PENCATATAN TRAFFEK	TRAFFIC RECORD
18.	PENCATATAN TRAFFEK	TRAFFIC RECORD
19.	SISTEM PENGGANTIAN	SWITCHING SYSTEM
20.	SISTEM TRANSMISI	TRANSMISSION SYSTEM
21.	SISTEM URAIAN TRANSMISI	TRANSMISSION DESCRIPTION SYSTEM
22.	SISTEM TRANSMISI	TRANSMISSION SYSTEM
23.	RENCANA LUAR	OUTSIDE PLAN
24.	SARANA PENUNJANG	SUPPORTING FACILITIES

COLLECTED DATA LIST WITEL VIII

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.		STRUCTURE OF ORGANIZATION NUMBER STAFF BY DIVISION STAFF COMPOSITION AND PRODUCTIVITY STAFF TURN OVER NUMBER OF PROFESSIONALS STAFF TURN OVER NUMBER OF SUPPORT STAFF NUMBER OF STAFF TRAINED RECRUITING SYSTEM
2.		PROGRAM TRANSMISSION OF DEVELOPMENT CURRENT PLANNING PROCEDURE PROGRESS OF PELITA V
3.	SISTEM PERBAIKAN PETUNJUK PELAKSANAAN METODA PELAPORAN DAN KOORDINASI PENANGANAN GANGGUAN LAPORAN PENANGANAN TAHUNAN	REPAIR SYSTEM METODE REPORT FOR REALIZATION INSTRUCTION AND COORDINATION DISTURBANCE HANDLING YEARLY MEASUREMENT REPORT
4.	PRAKIRAAN KEBUTUHAN TELPON PRAKIRAAN KEBUTUHAN MAKROSKOPIC WARTEL LOKASI & TGL. OPERASI MARET 1992	DEMAND FORECAST TELEPHONE YEAR 1994 - 2000 MACROSCOPIC DEMAND FORECAST (EXCHANGE BY EXCHANGE) LOCATION WARTEL AND DATE OF OPERATION MARET 1992
5.	PETA PERHUBUNGAN TRANSMISI TERRESTRIAL LAPORAN TRANSMISI CATATAN PERENCANAAN KONFIGURASI PERALATAN	MAP OF TERRESTRIAL TRANSMISSION RELATION TRANSMISSION REPORT PLAN RECORDS CONFIGURATION LINE TRUNK EQUIPMENT MAP OF TERRESTRIAL TRANSMISSION RELATION CONFIGURATION NETWORK AT DENFASAR EARTH STATION
6.	POTENSI SENTRAL OTOMAT DAFTAR SIRKIT BEROPERASI PENCATATAN RENCANA PETA PERHUBUNGAN TRANSMISI TERRESTRIAL SARANA (PENCATATAN RENCANA) TANAH & BANGUNAN DAFTAR SIRKIT BEROPERASI POTENSI TRANSMISI TERRESTRIAL	CENTRAL OTOMAT POTENTION CIRCUIT OPERATION LIST PLAN RECORDS MAP OF TERRESTRIAL TRANSMISSION RELATION OUTSIDE PLAN FACILITIES (PLAN RECORDS) LAND & BUILDING CIRCUIT OPERATION LIST TERRESTRIAL POTENTION OF TRANSMISSION
7.	PT. TELEKOMUNIKASI INDONESIA KANTOR WILAYAH USAHA TELEKOMUNIKASI VIII	

COLLECTED DATA LIST WITEL IX

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.		THE SECOND LONG TERM PLANNING OF SOUTH KALIMANTAN PROVINCE
2.		THE KECAMATAN DEV PLAN IN PELITA VI
3.		SITE AND DEVELOPMENT INFORMATION RELATED TO TELKOM IV PROJECT
4.		EXISTING TELEPHONE FACILITIES IN 1994
5.		WITEL IX TELEPHONE DEMAND FORECAST 1994 - 2000

COLLECTED DATA LIST WITEL X

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.		ORGANIZATION CHART
2.		NUMBER OF STAFF TRAINED
3.		NUMBER OF STAFF
4.		PLANNING SYSTEM
5.		PLANNING SYSTEM
6.	SUPLEMEN RENCANA KEGIATAN PROGRAM PELITA V	LAND ACQUISITION PROCEDURE
7.	LAPORAN PERKEMBANGAN PELAKSANAAN PROYEK	
8.	STATISTIK TELEKOMUNIKASI	STATISTICAL OF TELECOMMUNICATIONS
9.	STATISTIK TELEKOMUNIKASI	STATISTICAL OF TELECOMMUNICATIONS
10.	STATISTIK TELEKOMUNIKASI	STATISTICAL OF TELECOMMUNICATIONS
11.	PERAMALAN KEBUTUHAN JASA TELEKOMUNIKASI SULSELRA	MACROSCOPIC DEMAND FORECAST
12.		MICROSCOPIC DEMAND FORECAST
13.	POTENSI SAMBUNGAN TELEPON	
14.		TRAFFIC DATA
15.	DATA SENTRAL TELEPON DATA POTENSI SENTRAL TELEPON	
16.		ON GOING PROJECT (SWITCHING SYSTEM)
17.		ON GOING PROJECT (SWITCHING SYSTEM)
18.	DATA PERANGKAT RADIO TRANSMISI TERRESTRIAL	
19.	KONFIGURASI MULTY EXCHANGE	ROUTE CONFIGURATION
20.	DATA POTENSI JARINGAN LOKAL KANDATEL	OUTSIDE PLAN
21.	DAFTAR PENGOPERASIAN DIESEL GENERATOR	POWER PLAN (1/2)
22.	DAFTAR PERANGKAT GATU DAYA INSTALASI LISTRIK	POWER PLAN (2/2)
23.	WILAYAH USAHA TELEKOMUNIKASI LAPORAN KEUANGAN BULANAN	FINANCIAL DATA (1/2)
24.	PRESENTASI KANDATEL	FINANCIAL DATA (2/2)

COLLECTED DATA LIST WITEL XI

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.	KONDISI INTERN BIDANG SUMBER DAYA MANUSIA DAN ORGANISASI DIRINCI MENUJUT KORPS KEPANGKATAN DAN GOLONGAN KOMPOSISI PEGAWAI YANG ADA	
2.	LAPORAN PHISK KEMAJUAN PELAKSANAAN PEMBANGUNAN	
3.	BAGAN ORGANISASI WITEL KELAS II	
4.	PRAKIRAAN KEBUTUHAN TELEPON	
5.		ROW A AND ROW B INCCOMING SENTRAL WILAYAH USAHA TELEKOMUNIKASI XI MALUKU DAFTAR ALOKASI KANAL TRANSMISI SATELIT KONFIGURASI NETWORK WITEL XI MALUKU EVALUASI HASIL PENGUKURAN TRAFFK
6.	DAFTAR POTENSI KANA; VHF/UHF DI MALUKU DAFTAR KANAL TRANSMISI RADIO HF DI MALUKU DALAM RANGKA PKS BPN DENGAN PERUMTEL REALISASI PEMBEBASAN TANAH UNTUK PEMBANGUNAN DAFTAR PERANGKAT CATU DAYA WITEL XI MALUKU	
7.	PENDAPATAN DAN BIAYA OPERASI	

COLLECTED DATA LIST WITEL XII

NO.	DATA NAME (IN INDONESIA)	NOTE (IN ENGLISH)
1.	KEBUTUHAN TENAGA TAHUN 1992 DATA PENDIDIKAN DAN PELATIHAN	STAFF COMPOSITION AND PRODUCTIVITY
2.	LAPORAN PELAKSANAAN PEMBANGUNAN	
3.	BAGAN STRUKTUR ORGANISASI DAFTAR NOMINASI PEJABAT KANDATEL MANOKWARI DAFTAR NOMINASI PEJABAT KANDATEL MERAUKE DAFTAR NOMINASI PEJABAT KANDATEL JAYAPURA DAFTAR NOMINASI PEJABAT KANDATEL SORONG DAFTAR NOMINASI PEJABAT KANDATEL BIAK DAFTAR NOMINASI PEJABAT KANDATEL FAKFAK	
4.	PRAKIRAAN KEBUTUHAN TELEPON POTENSI SAMBUNGAN TELEPON	DEMAND FORECAST TAHUN 1994 - 2000
5.	PRUKSI PULSA TELEX PRUKSI TELEX LUAR NEGERI PRUKSI TELEGRAM BERBAYAR DALAM NEGERI PRUKSI PULSA LOKAL & SLJI PRUKSI INTERLOKAL MANUAL PRUKSI TELEPON INTERNATIONAL DAFTAR NAMA WARUNG TELEKOMUNIKASI (WARTEL)	
6.	ROUTING EXISTING SLJI SCR DAN ASR	
7.	LOKASI PEMBANGUNAN PELITA VI PERAWATAN CATU DAYA WILAYAH TELEKOMUNIKASI XII POTENSI KANAL TRANSMISI SATELIT POTENSI SENTRAL TELEPON ALTERNATIVE ROUTE MICROWAVE POTENSI JARINGAN KABEL LOKAL DAFTAR PERANGKAT TRANSMISI RADIO HF LUAS TANAH DAN BANGUNAN DAFTAR OBYEK PAJAK BUMI DAN BANGUNAN DAFTAR ALOKASI KANAL SCPC - SBB POTENSI KANAL SBB - KANDATEL	
8.	PT TELEKOMUNIKASI INDONESIA WILAYAH USAHA TELEKOMUNIKASI XII EXECUTIVE REPORT	

ANNEX 3
FINANCIAL DATA

Table A 3-1

Gross Domestic Product by Industrial Origin 1983-1991
at Constant 1983 Market Prices

(Billion Rp)

	1983	1984	1985	1986	1987	1988	1989	1990	1991
<u>Primary Sector w/out P&G</u>	<u>18,700</u>	<u>19,446</u>	<u>20,268</u>	<u>20,871</u>	<u>21,370</u>	<u>22,369</u>	<u>23,420</u>	<u>23,883</u>	<u>24,218</u>
Agriculture	17,696	18,513	19,300	19,799	20,224	21,168	22,086	22,424	22,616
Mining & quarrying (w/o P&G)	1,004	933	968	1,072	1,146	1,201	1,334	1,459	1,602
<u>Industrial Sector w/out P&G</u>	<u>12,577</u>	<u>13,381</u>	<u>14,615</u>	<u>15,867</u>	<u>17,362</u>	<u>19,415</u>	<u>21,675</u>	<u>24,555</u>	<u>27,390</u>
Manufacturing (w/o P&G)	7,666	8,663	9,746	10,828	12,064	13,607	15,181	17,150	19,102
Electricity, gas and water	314	324	361	430	495	549	616	726	843
Construction	4,597	4,394	4,508	4,609	4,803	5,259	5,878	6,679	7,445
<u>Service Sector</u>	<u>29,067</u>	<u>30,609</u>	<u>32,002</u>	<u>34,187</u>	<u>36,396</u>	<u>38,885</u>	<u>42,178</u>	<u>45,657</u>	<u>48,605</u>
Trade	11,541	11,811	12,399	13,399	14,356	15,657	17,230	18,668	20,018
Transport & Communications	4,098	4,443	4,487	4,669	4,939	5,212	5,667	6,368	6,816
Banking, etc.	2,359	2,829	3,020	3,483	3,659	3,752	4,288	4,858	5,414
Ownership of dwellings	2,356	2,412	2,461	2,545	2,654	2,762	2,880	2,999	3,120
Public admin. & defence	5,712	5,997	6,455	6,862	7,366	7,932	8,397	8,783	9,030
Other services	3,001	3,117	3,180	3,229	3,422	3,570	3,716	3,981	4,207
<u>GDP without P & G</u>	<u>60,344</u>	<u>63,436</u>	<u>66,885</u>	<u>70,925</u>	<u>75,128</u>	<u>80,669</u>	<u>87,273</u>	<u>94,095</u>	<u>100,214</u>
<u>Petroleum & Gas</u>	<u>17,333</u>	<u>19,603</u>	<u>18,199</u>	<u>19,087</u>	<u>19,390</u>	<u>19,267</u>	<u>20,048</u>	<u>21,157</u>	<u>22,876</u>
Oil & natural gas	15,103	16,187	14,513	15,237	15,219	14,691	15,393	16,030	17,435
Refinery oil	359	626	767	927	938	981	990	1,090	1,133
LNG	1,871	2,790	2,919	2,923	3,233	3,595	3,665	4,037	4,308
<u>Gross Domestic Product</u>	<u>77,676</u>	<u>83,037</u>	<u>85,082</u>	<u>90,014</u>	<u>94,518</u>	<u>99,936</u>	<u>107,321</u>	<u>115,251</u>	<u>123,090</u>

Preliminary Very Prel.

(Source: BPS)

Table A 3-2

PERUMTEL
KEY HISTORICAL FINANCIAL PERFORMANCE INDICATORS

Fiscal Year Ending December 31	1986	1987	1988	1989	1990	1991 a/
Profitability : (Rp. Billion)						
Operating Revenue b/	614.2	724.0	799.4	929.4	1,292.8	1,737.5
Less : Operating Expenses c/	495.2	691.0	641.0	780.7	1,129.5	1,361.8
Net Operating Income	119.0	33.0	158.4	148.7	163.3	375.7
Net Profit	134.2	83.6	111.7	103.4	129.5	187.0
Financial Ratios :						
Operating Ratio	81%	95%	80%	84%	87%	78%
Return on Asset (Av. NFA)	26%	5%	18%	15%	12%	21%
Return on Av. Equity	27%	13%	11%	13%	14%	21%
Current (Rp. '000)						
Telephone Revenue/Av. Main Line	836	893	896	958	1,108	1,341
Cash Op Costs/Av. Main Line d/	560	526	460	506	631	675
Constant 1990 Prices						
Telephone Revenue/Av. Main Line	1,215	1,158	1,064	1,035	1,108	1,289
Cash Op Costs/Av. Main Line d/	813	682	546	546	631	649
Net Internal Cash Generation as %						
of Av. 2 year Investments	41%	50%	52%	46%	28%	41%
Debt Service Coverage	3.4	4.8	4.6	3.8	2.1	2.3
Current Ratio						
Account Receivable (Days)	76	64	66	57	45	40
Long Term Debt / Total Capital	46%	39%	43%	43%	46%	54%

a/ Although PERUMTEL was conveyed to TELKOM on September 23, 1991, the financial statements are for PERUMTEL for the whole fiscal year.

b/ Tariffs were increased substantially effective October 1990.

c/ Depreciation method used changed in 1987 from straight line to double declining.

d/ Salaries were increased by an average of about 95% and 26% in 1990 and 1991, respectively.

Tabele A 3-3

PERUMTEL

Historical Income Statements and Performance Indicators

Fiscal Year Ending December 31	1986	1987	1988	1989	1990	1991 ^{_1/}
Operating Revenues : ^{_2/}						
Telephone	527.2	623.2	690.6	792.3	1038.2	1521
Telex	47	53.4	56.2	59.9	67.8	90.2
Telegram	8.8	9.9	11.2	11.4	14.7	18
Leased Channel	22.3	27.2	29.5	44.4	55.9	41.8
Other Revenues	8.8	10.3	12	21.5	116.2	66.5
Total Revenue	614.1	724	799.5	929.5	1292.8	1737.5
Operating Expenses :						
Personnel	152	166.6	181.2	254.4	384.1	447.3
General & Administration	116.2	113	112	108.8	144.3	236.5
Repair & Maintenance	84.7	87.3	61.3	55	62.7	81.4
Depreciation ^{_3/}	108	267.9	251.9	294.1	409.5	518.1
Amortization	27.2	42.3	23.8	43.1	115.3	63.9
Provisions	7.1	14.3	10.7	25.3	13.6	14.6
Total Expenses	495.2	691.4	640.9	780.7	1129.5	1361.8
Net Operating Income	118.9	32.6	158.6	148.8	163.3	375.7
Interest-LTD	38.7	30.6	22.3	66.7	77.1	171
Net Non-Operating Income	91.5	71	97.4	88.9	107.6	83
Extra Ordinary Gain (Loss)	16.2	31.1	-51.5	-9.7	1.7	
Pre-tax Income	187.9	104.1	182.2	161.3	195.5	287.7
Income Tax	53.8	20.7	70.4	57.9	66	100.8
Net Income	134.1	83.4	111.8	103.4	129.5	186.9
Ratios :						
Operating Ratio (%)	80.6%	95.5%	80.2%	84.0%	87.4%	78.4%
Rate of Return (Av. NFA)	26.4%	5.1%	18.3%	14.9%	12.5%	20.8%
Rate of Return (Av. Equity)	26.9%	12.6%	11.0%	12.6%	13.7%	20.9%

^{_1/} Although PERUMTEL was converted to TELKOM on September 23, 1991, the financial statements are for PERUMTEL for the whole fiscal year.

^{_2/} Tariffs were increased substantially effective October 1990.

^{_3/} Depreciation method used changed in 1987 from straight line to double declining.

Table A 3-4

PERUMTEL
Historical Balance Sheets and Performance Indicators

Fiscal Year Ending December 31	1986	1887	1988	1989	1990	1991 _{1/}
Current Assets :						
Cash and Bank	115.9	62.5	83.5	62.2	89.6	95.2
Short Term Investment	445.7	464.5	558.6	619.6	340.3	402.2
Accounts Receivable	129.9	129.5	147.4	146	160.2	192.5
Other Receivable	45	106.9	117	13	3.7	53.9
Inventories	83.1	69.7	60.6	52.8	104	164.1
Advance Payment	53.5	69.3	65.9	159.2	368.9	496.6
Total Current Assets	873.1	902.4	1033	1052.8	1066.7	1404.5
Gross Fixed Assets _{2/}	1028.8	1943.4	2256.3	2740.8	3568.5	4472.2
Less Accumulated Depreciation _{2/}	586.6	1106.1	1358.2	1644.5	2044.7	2382
Net Fixed Assets	442.2	837.3	898.1	1096.3	1523.8	2090.2
Work in Progress	316.7	458.3	714.5	740.5	745.8	796.1
Deferred Charges	48	128.7	149.2	348.1	500.9	651.3
TOTAL ASSETS	1680	2326.7	2794.8	3237.7	3837.2	4942.1
Current Liabilities :						
Account Payable	75.7	94.2	128.9	135	271.4	299.8
Other Payable	130	144.5	180.7	226.2	182.6	269.3
Current Portion LT debt	65.7	73.6	75.1	261.8	253.1	263.2
Total Current Liabilities	271.4	312.3	384.7	623	707.1	832.3
Long Term Debt	563.8	727.4	965.2	1058.9	1366.2	2108.4
Deferred Income (Install. Charge)	63.8	89.2	110.6	115.1	65.1	103.9
Other Long Term Liabilities	107.5	65.5	32	34.9	83	84.2
Total Liabilities	1006.5	1194.4	1492.5	1831.9	2221.4	3128.8
Equity :						
Government Equity	471.4	565.9	1190	1153	1310.2	1418.2
Reserves & Retained Earnings	202.1	566.6	112.2	253.4	305.7	395
Total Equity	673.5	1132.5	1302.2	1406.4	1615.9	1813.2
TOTAL LIABILITIES & EQUITY	1680	2326.9	2794.7	3238.3	3837.3	4942
Current Ratio	3.2	2.9	2.7	1.7	1.5	1.7
Long Term Debt/Total Capital	46%	39%	43%	43%	46%	54%

_{1/} Although PERUMTEL was converted to TELKOM on September 23, 1991, the financial statements are for PERUMTEL for the whole fiscal year.

_{2/} Assets revalued in 1987 and accelerated depreciation method adopted.

Table A 3-5

PERUMTEL
Historical Cash Statements and Performance Indicators

Fiscal Year Ending December 31	1986	1987	1988	1989	1990	1991 ^{_1/}
SOURCES :						
Net Income	134.2	83.5	111.7	103.4	129.5	187
Depreciation	108	267.9	251.9	294.1	409.5	518.1
Amortization	27.2	42.3	23.8	43.1	115.3	63.9
Provisions	7.1	14.3	10.7	25.3	13.6	14.6
Interest	38.7	30.6	22.3	66.7	77.1	171
Differed Installation Charge	22.2	25.4	21.4	4.5	-50	38.9
Internal Cash Generation	337.4	464	441.8	537.1	695	993.5
Equity & Reverses	18.2	176.1	120.6	84.6	157.5	36.3
Other Liabilities	49.7	-42.1	-33.4	2.9	48	1.2
Loans	118.7	237.1	313	355.4	560.4	1005.3
TOTAL SOURCES	524	835.1	842	980	1460.9	2036.3
APPLICATIONS :						
Capital Investment	211.4	504.6	568.9	518.3	842.3	1134.7
GOI Development Fund	67.5	73.8	45.9	61.5	56.8	0
Bonus to Employees	12.3	13.4	8.3	11.2	16.5	20.7
Pension Plan	9.8	10.7	6.7	8.9	2.1	2.6
Social Objective	2.5	2.7	1.7	2.2	2.1	2.6
Total Transfers	92.1	100.6	62.6	83.8	77.5	25.9
Debt Services						
Interest	38.7	30.6	22.3	66.7	77.1	171
Principal	60.1	65.7	73.6	75.1	261.8	235.1
Total Debt Service	98.8	96.3	95.9	141.8	338.9	406.1
Change in Working Capital	101.4	10.6	70.3	-6.1	-65.7	237.3
Deffered Charges	20.3	122.9	44.3	242.1	268.1	214.1
TOTAL APPLICATIONS	524	835	842	979.9	1461.1	2018.1
Net Internal Cash/ Average 2 Year Investments	41.0%	50.0%	52.0%	46.0%	28.0%	41.0%
Debt Service Coverage	3.4	4.8	4.6	3.8	2.1	2.3

^{_1/} Although PERUMTEL was converted to TELKOM on September 23, 1991, the financial statements are for PERUMTEL for the whole fiscal year.