

入手資料リスト

1. Answer to questionnaire of the most important items.
2. Tentative answer to questionnaire of the second important items.
3. POSTEL 職員名簿
4. PERUMTEL 組織図及び職員数
5. PERUMTEL 通信局名及び通信局長名
6. バンドン電話局組織図*
7. バンドン電話局, 線路宅内課組織図及び職員名
8. バンドン電話局中継線路図
9. バンドン電話局敷地図
10. バンドン市街地図
11. 第4次5カ年計画概要
12. STATUS OF TELECOMMUNICATION MAINTENANCE IN PERUMTEL INDONESIA
13. Analysis of fault statistics - outside plant faults -
14. 中央電気通信学園関係資料*
15. 中央電気通信学園訓練カリキュラム
16. 中央電気通信学園訓練カリキュラム (上記15の半分程度英文化)
17. LAPORAN TAHUNAN 1982.

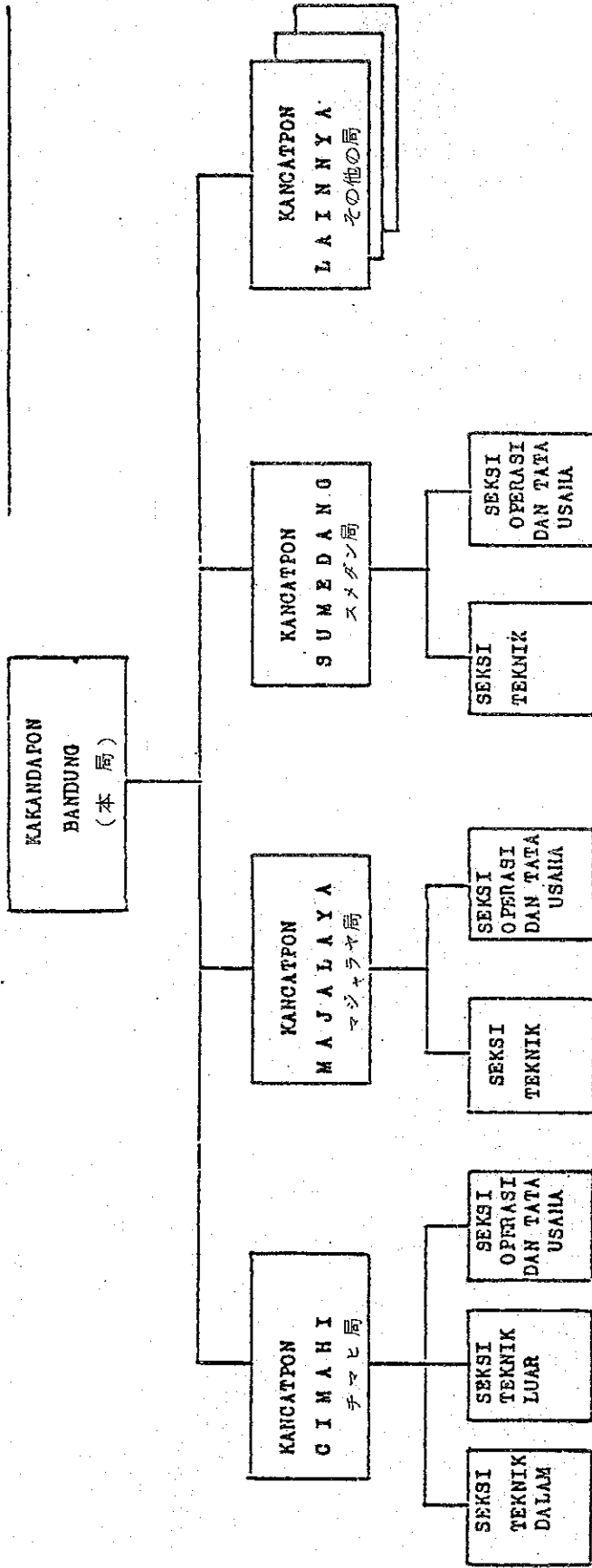
*印は以下添付

バンドン電話局組織図

Lampiran II, Keputusan DIREKSI PERUMTEL

Nomor :

Tanggal :



Ditetapkan di : B a n d u n g

Pada tanggal :

a.n. DIREKSI PERUSAHAAN UMUM TELEKOMUNIKASI
DIREKTUR PERSONALIA DAN TATA USAHA

CATATAN :

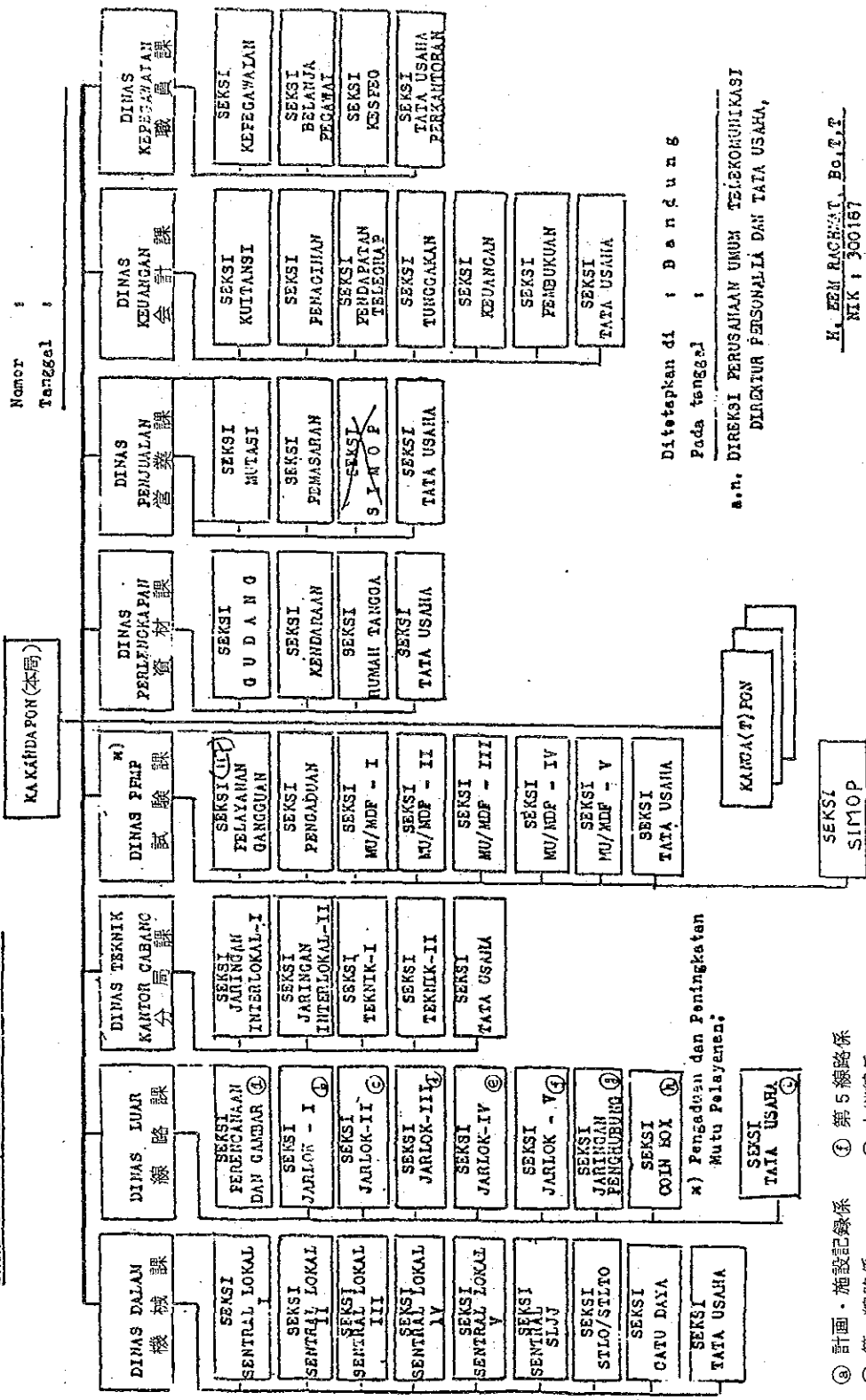
Kancatpon-Kancatpon lainnya tidak mempunyai Seksi.

II. EEM RACHMAT, P.c.T.T.
NIK : 300187

パンドン電話局(本局)組織図
 BAGAN ORGANISASI KANDAPON BANDUNG

Lampiran I, Keputusan Direksi PERUMILDI

Nomor :
 Tanggal :



Ditetapkan di Bandung
 Pada tanggal :

a.n. DIREKSI PERUSAHAAN UMUM TELEKOMUNIKASI
 DIREKTUR PERSONALIA DAN TATA USAHA,

H. EEM RACHMAT, B.E.T.
 NIK : 300167

- ③ 計画・施設記録係
- ④ 第一線路係
- ⑤ 第二線路係
- ⑥ 第三線路係
- ⑦ 第四線路係
- ① 第5線路係
- ② 中継線係
- ③ 公衆電話係
- ④ 管理係

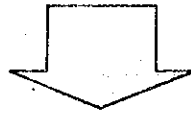


PERUMTEL
EDUCATION, RESEARCH AND DEVELOPMENT CENTRE
MISSION IN EDUCATION & TRAINING

NATIONAL CONCEPT
in the development of
HUMAN RESOURCES

中央電気通信学園
紹介パンフレット

- * LIFELONG EDUCATION FOR ALL INDONESIANS,
- * RESPONSIBILITY RESTS UPON:
 - THE GOVERNMENT
 - THE NON GOVERNMENT INSTITUTIONS
 - ALL CITIZENS



THE PERUMTEL PARTICIPATION

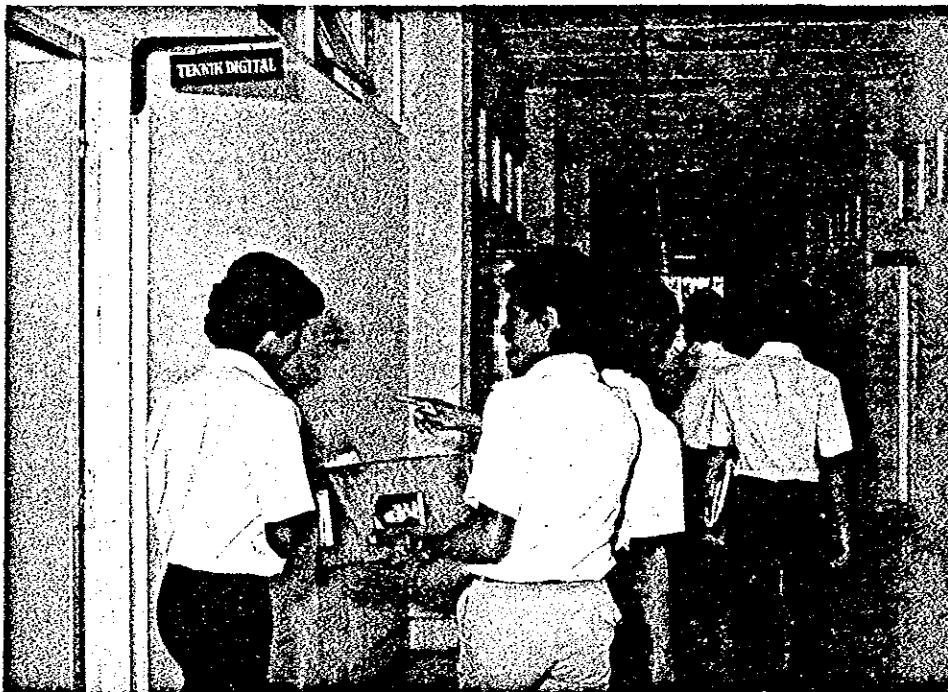
Based on the national concept, PERUMTEL does the development of its employees concerning skill, knowledge and attitude, through:

EDUCATION

— for — specific career

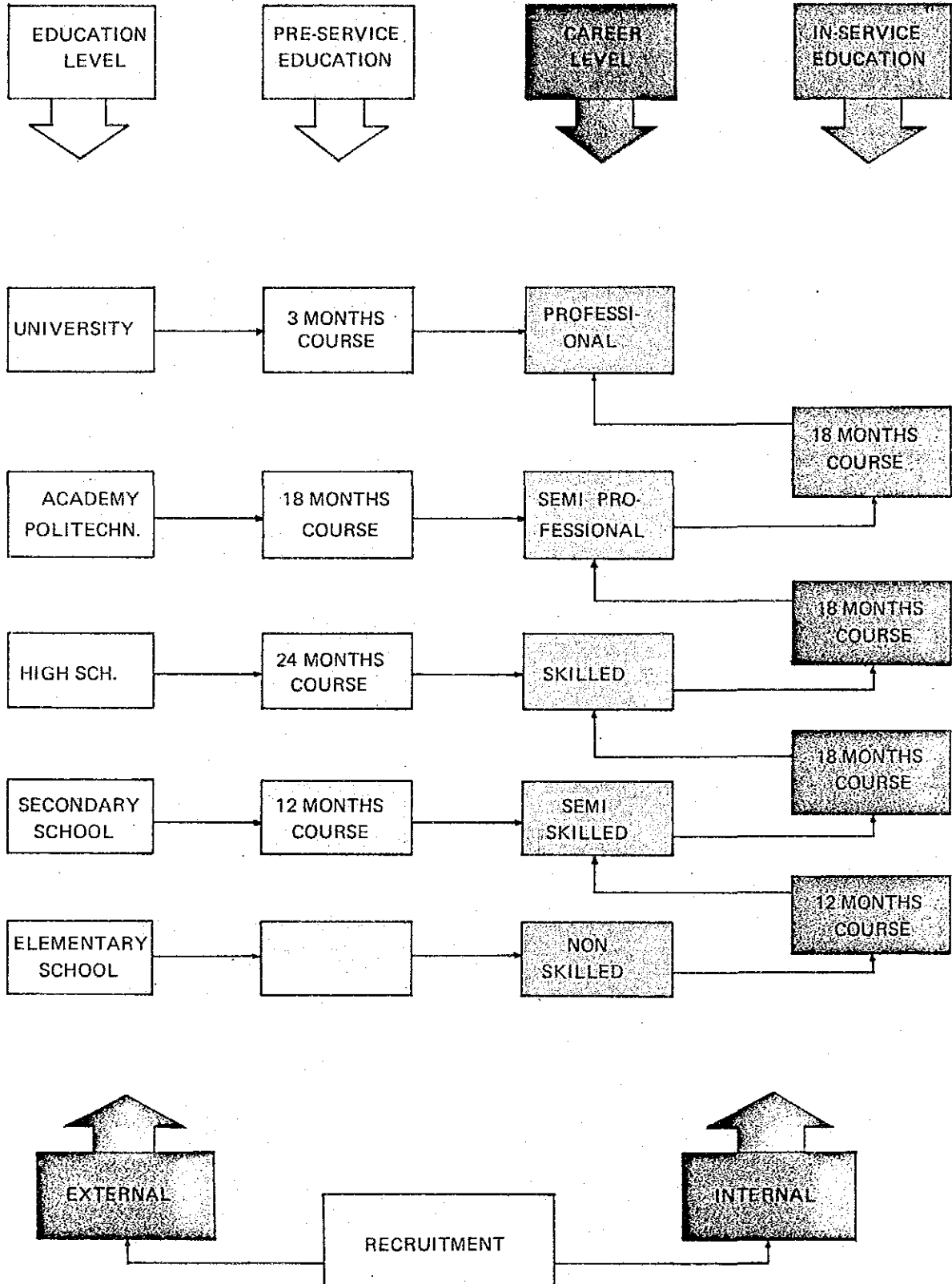
TRAINING

— for — specific job/task



TRAINEES

CAREER DEVELOPMENT STRUCTURE THROUGH EDUCATION FOR PERUMTEL EMPLOYEES



EXISTING TRAINING COURSES FOR TECHNICIANS

RADIO & TRANSMISSION

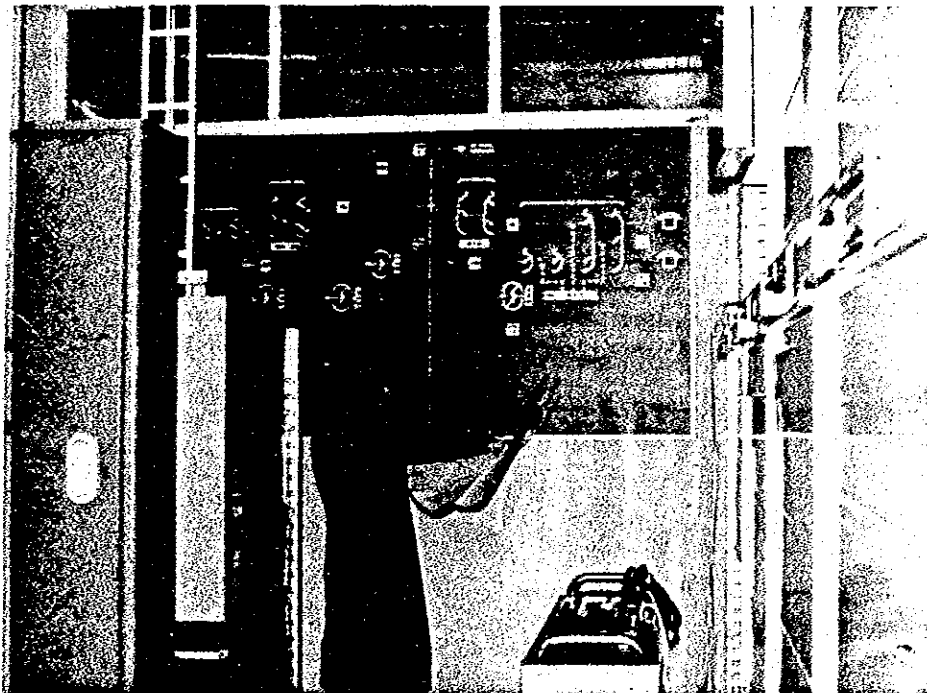
- 1. Microwave (26 weeks)
- 2. Small Terminal Station (14 weeks)

SWITCHING

- 1. Pentoconta (26 weeks)
- 2. CIT (26 weeks)
- 3. Rural exchange (26 weeks)
- 4. Metaconta 10 C (26 weeks)
- 5. PRX (26 weeks)

TELEGRAPH

- 1. WT-1000 (8 weeks)
- 2. TWK-9 (8 weeks)



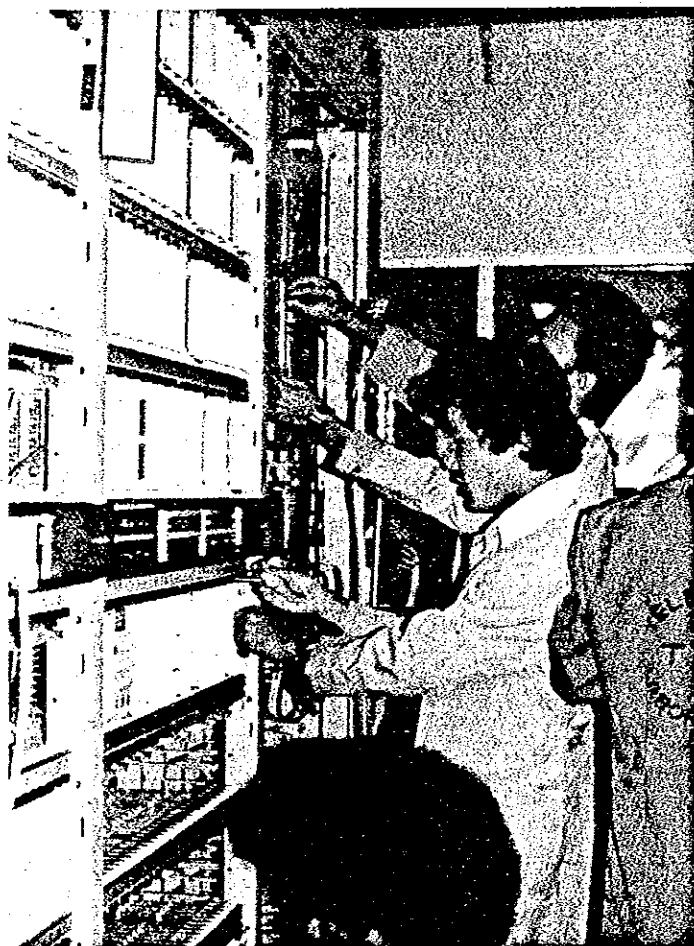
SWITCHING

ENVIRONMENT

beginning 1982:

TELECOMMUNICATION NETWORK WITH :

764	Telephone exchange
627	Telegraph & Telex offices
1	Telex offices
4	Trunk exchange
120	Ground Stations
4802.15	Route kilometer of Microwave system
2275	Route kilometer of coaxial cable



TELEGRAPH LAB

PERSONNEL :

4463	Non skilled
13104	Semi skilled
6205	Skilled
2153	Semi professional
199	Professional (university graduates)
392	Professional (Academy/ Politechnic graduates + Telecom training + experiences + advance training).
596	Professional (semi professional + experiences + education + training).

TRENDS

General : — Fast expansion of PERUMTEL for national need
 — More sophisticated equipment
 — Rapid change of telecommunication technology

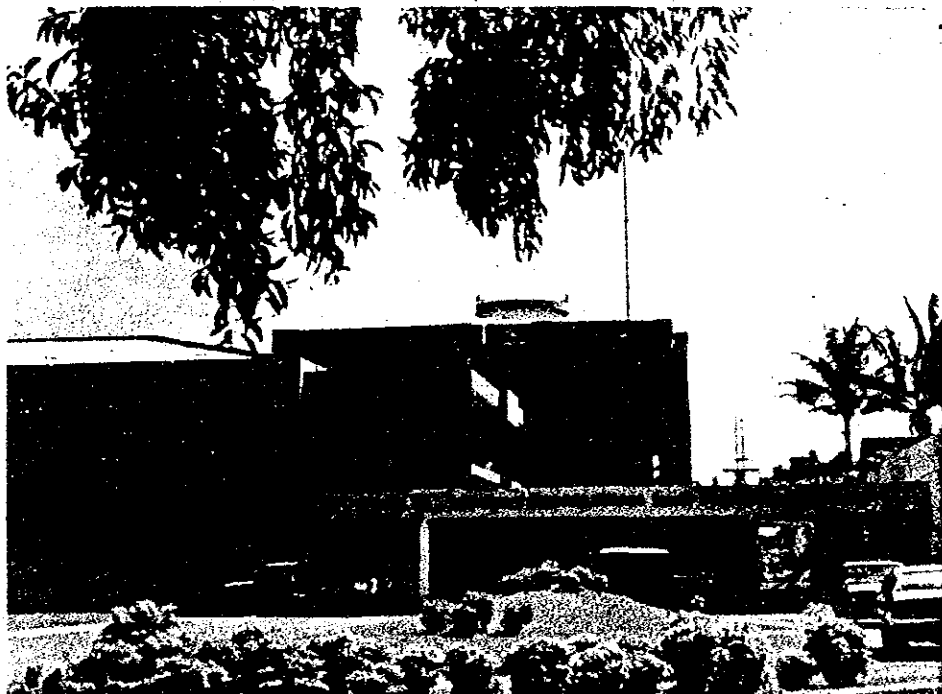
Development plan :

HARDWARE	1979 — 1984	1984 — 1989	1989 — 1994	1994 — 1999
ANALOG TELEPHONY (line unit)	72,500	74,800	75,600	22,600
DIGITAL TELEPHONY (line unit)	46,500	268,000	473,000	1,264,880
TELEX (line unit)	2,600	12,400	13,200	21,600
DATA (terminal)	400	1,800	1,150	450
TRANSMISSION (channel)	4,731	7,870	12,704	25,486

Year	80	81	82	82/83	84	89
Telephone capacity (x 10 ³)	600	620	660	674	700	982.865
Number of staff	27,146	28,400	28,800	29,200	29,600	35,363
Staff per 1000 l.u.	45	46	44	43	42	36

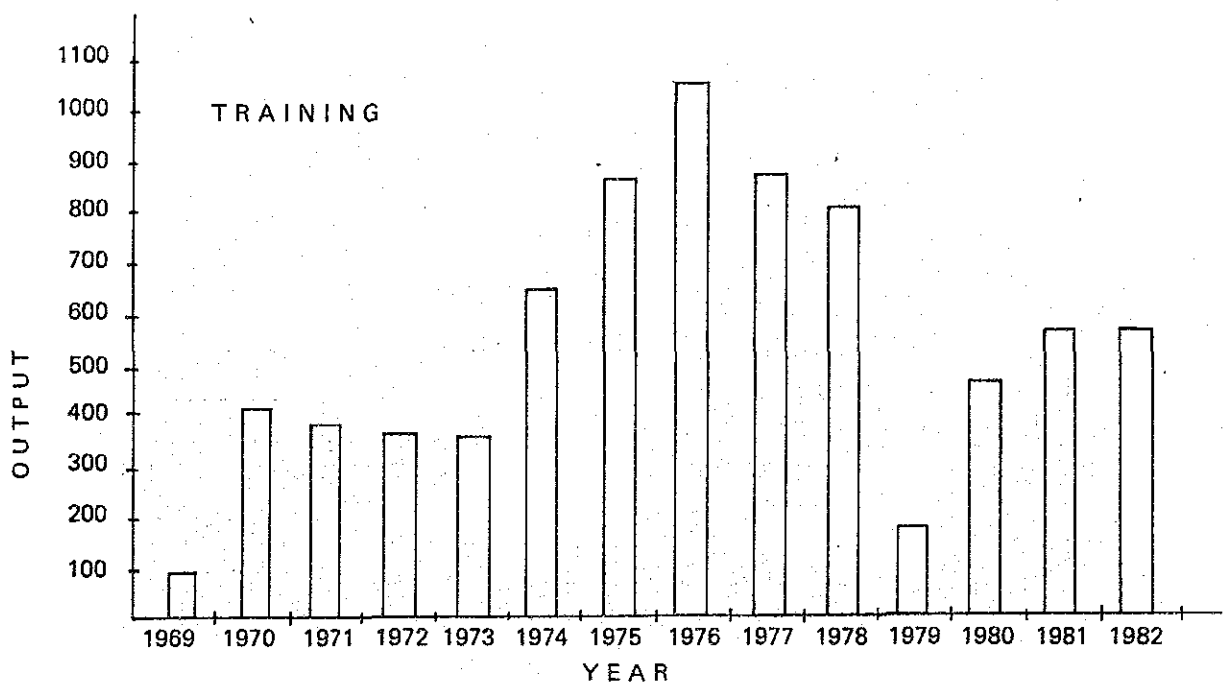
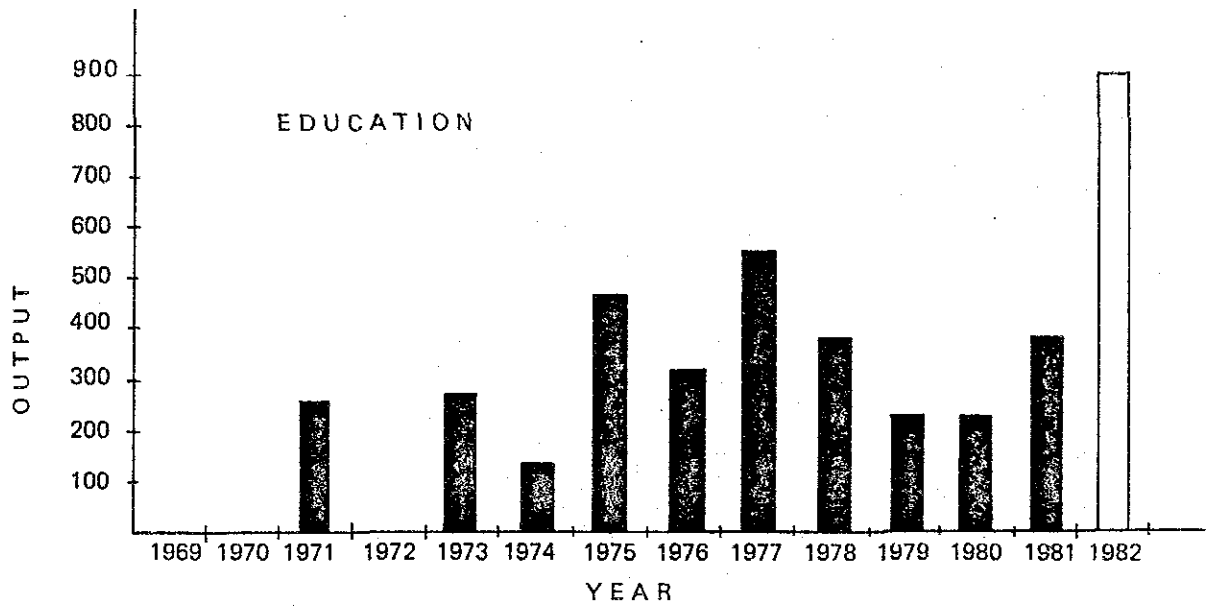
CHALLENGE FOR DEVELOPMENT OF EDUCATION & TRAINING

- * Development of organisation & management in which continuous & professional study and development of education & training system can take place.
- * Recruitment & Training of instructors to attain average ratio of one full-time qualified instructor for 9 trainees.
- * Enlarging capacity & facilities of Education & Training to accomodate at least 2000 trainees per year.
- * Establish intensive cooperation with outside PERUMTEL institutions for better development of the ERD Centre.



Research & Development Centre

OUTPUT

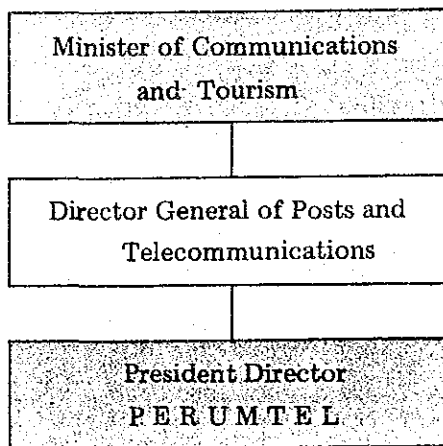




ORGANIZATION

- I. PERUMTEL, the Indonesian State owned Company for Public Telecommunication services, is under the control of the Minister of Communications and Tourism.

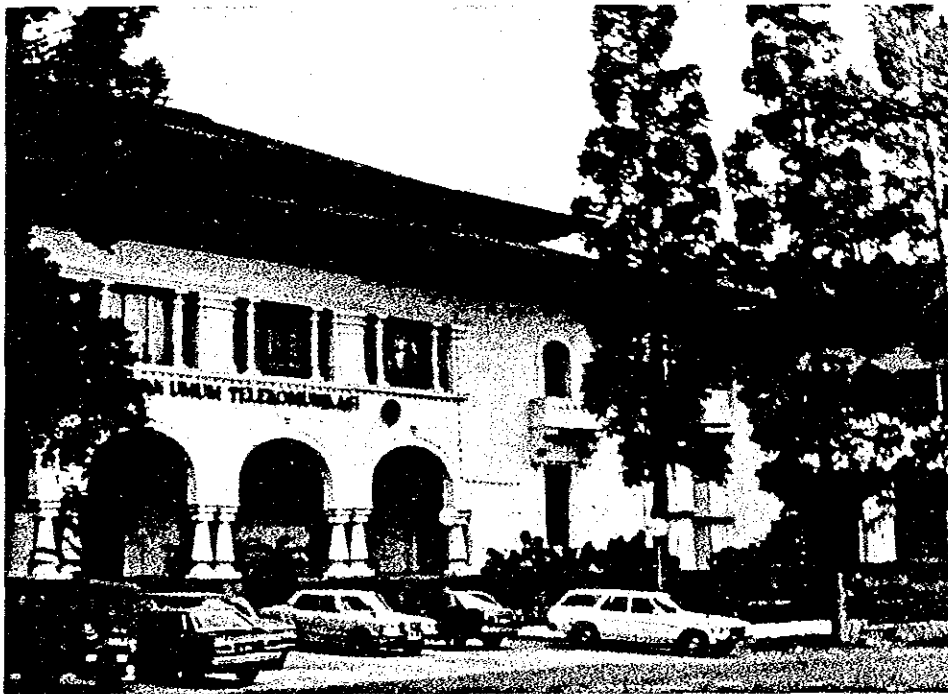
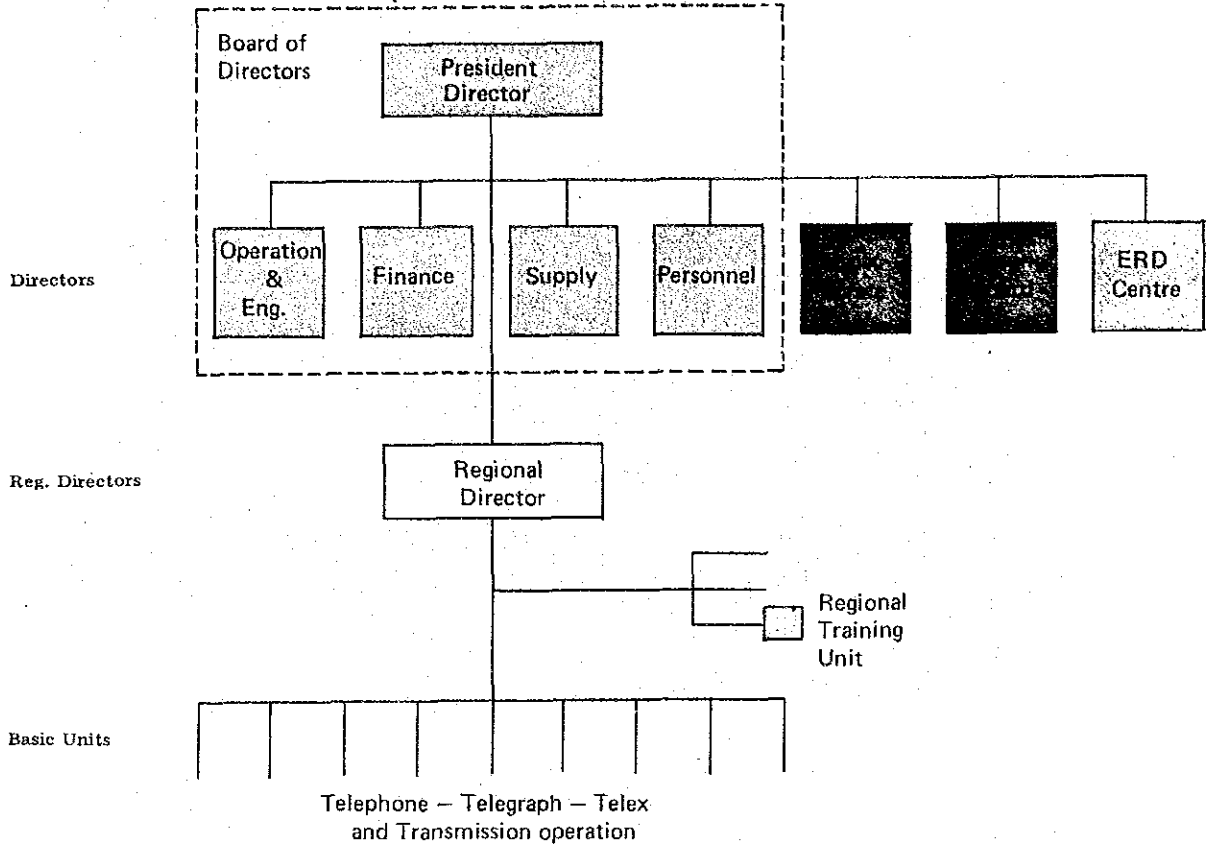
Central Administration :



Directorate General of Posts & Telecommunications.

- ii. A Board of Directors consisting of the President Director and four Directors at the top, manages PERUMTEL, in public telecommunications throughout Indonesia in twelve regions.

PERUMTEL ORGANIZATION



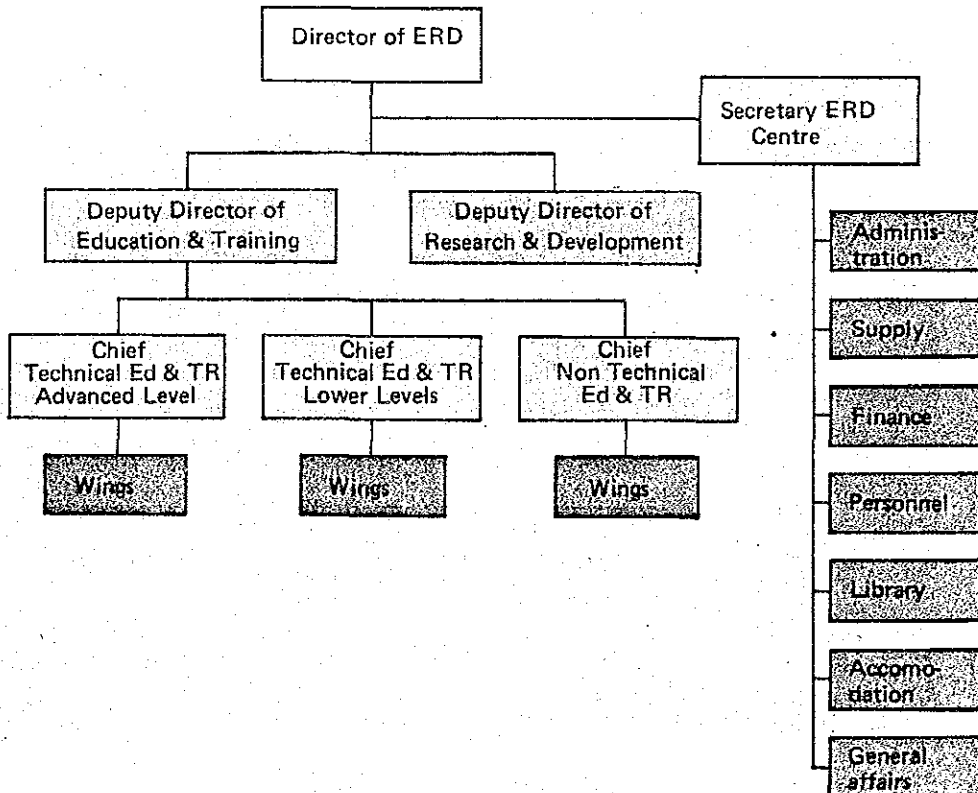
PERUMTEL HEADQUARTERS

III. PERUMTEL EDUCATION, RESEARCH AND DEVELOPMENT CENTRE



ERD Centre Bandung

EDUCATION & TRAINING ORGANIZATION



IV. WINGS are established for specific training or study, conducted by specialized instructors.

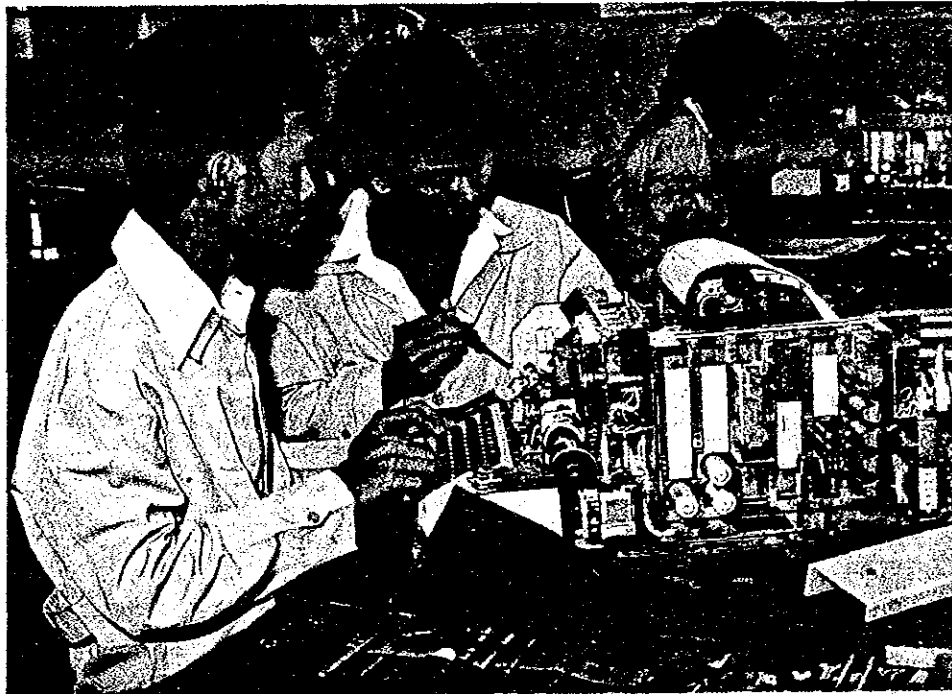
Wings attached to

Techn Ed & Tr.

- Telephone
- Outside plant
- Telegraph
- Radio & Transmission
- Traffic Engineering
- Power Plant
- Digital Technique

Non-Techn Ed & Tr.

- Traffic operation
- Telephone & Telegraph Administration
- Finance
- Supply
- Management & Personnel
- Language



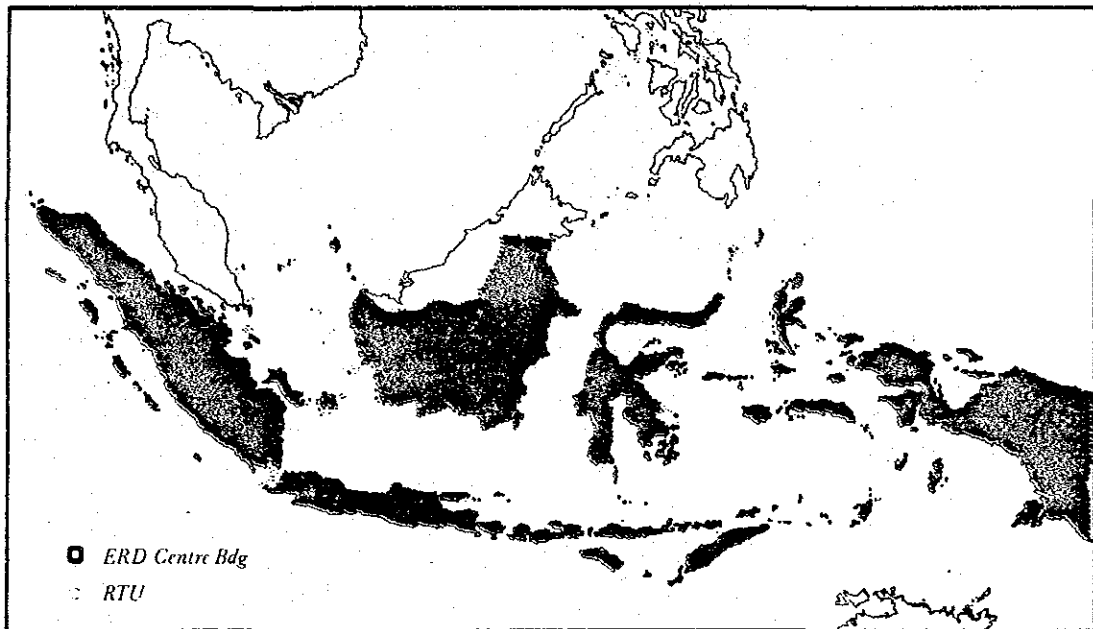
TELEGRAPH WING

V. REGIONAL TRAINING UNITS

Regional Training Units are under direct control of Regional Directors and being developed to support field operation.

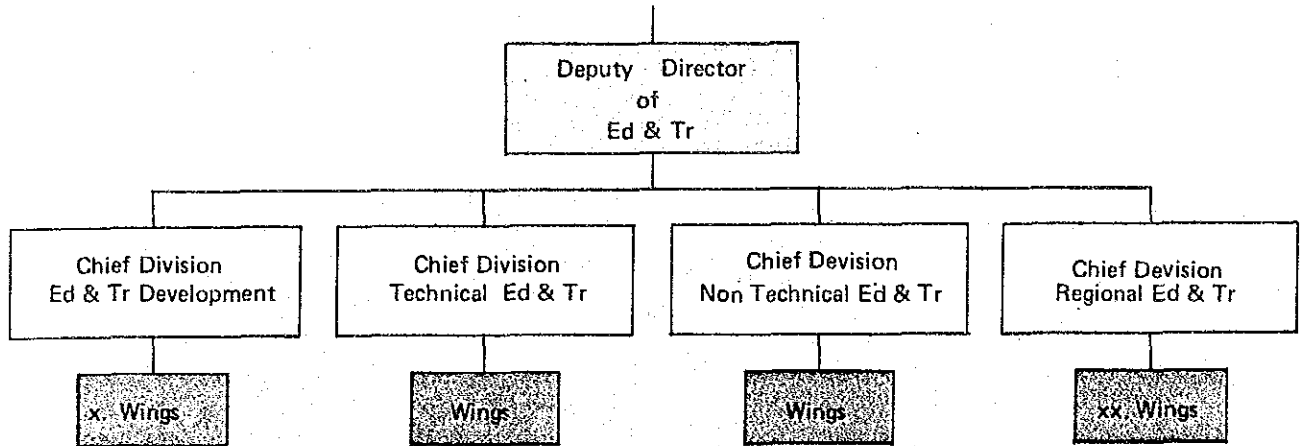
PLACES OF REGIONAL TRAINING UNITS

- | | |
|----------------------------|-------------------------------|
| 1. Jakarta | 5. Padang (West Sumatera) |
| 2. Semarang (Central Java) | 6. Palembang (South Sumatera) |
| 3. Surabaya (East Java) | 7. Ujung Pandang (Sulawesi) |
| 4. Medan (North Sumatera) | 8. Denpasar (Bali) |



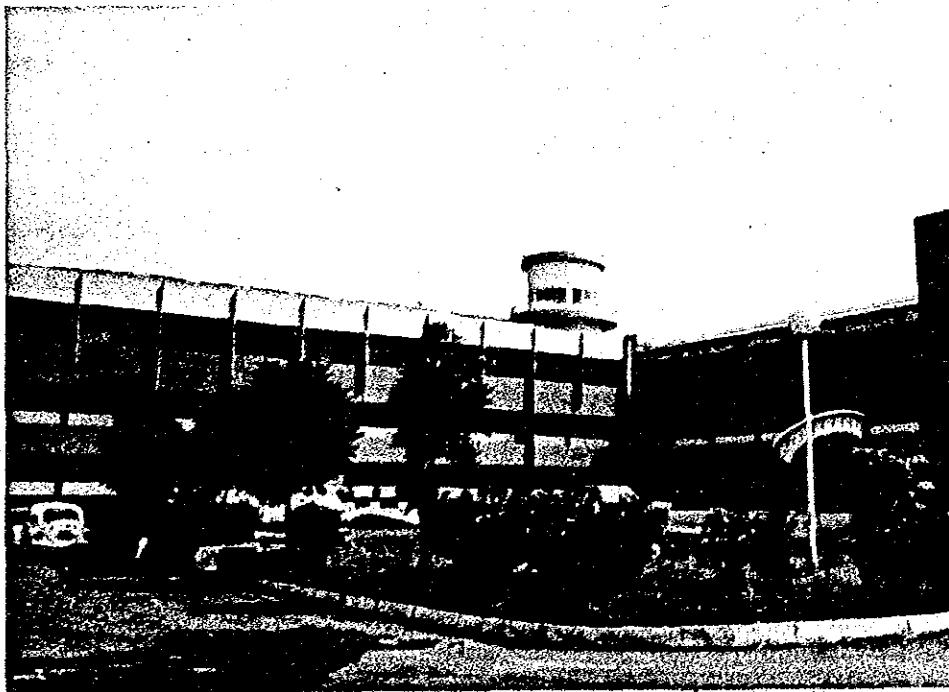
VI. A new Education & Training Organization has been proposed to support the fast development of PERUMTEL according to the national need.

PROPOSED ORGANIZATION



x : Study and develop programs, systems and procedures.

xx : included Regional Training Units.



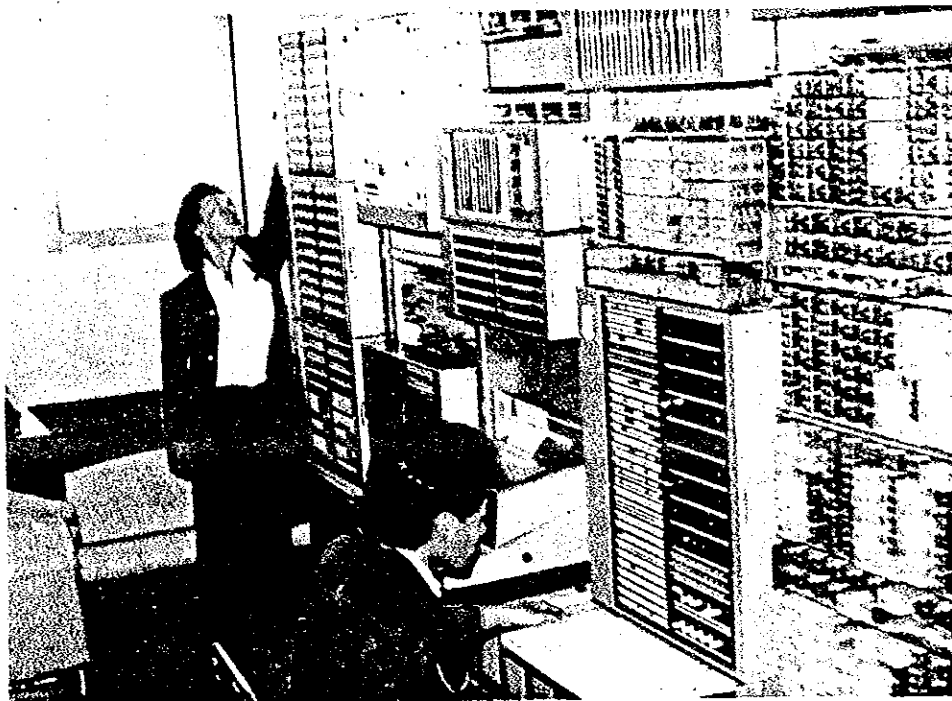
Research and Development Centre



PERUMTEL
EDUCATION, RESEARCH AND DEVELOPMENT CENTRE
TRAINING LABORATORIES & LIBRARY

The vocational Education & Training done at the PERUMTEL ERD CENTRE are provided with LABORATORIES for practical understanding of principles and LIBRARY for reference.

SWITCHING LABORATORY

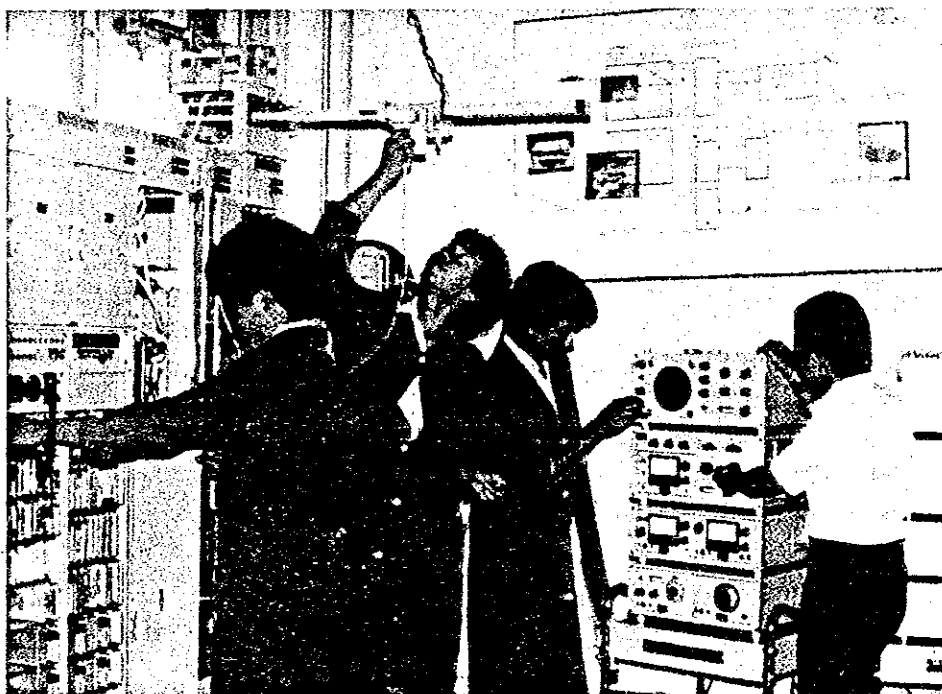


Equipment	Quantity	Seats
A. Manual Telephone Exchange		
Local Manual		
1. L.B., LME, type-ABH-16 Capacity : 200 numbers	2 cabinet-desks	4
2. C.B., LME, type ADK-513 Capacity : 300 numbers	3 cabinet-desks & 2 annex	6
Trunk Manual		
3. LME, type AFA-10	1 cabinet-desk	3
4. SAG, type F-36	1 cabinet-desk	3
5. CIT, type Cordless	1 cabinet-desk	2

Equipment	Quantity	Seats
B. Automatic Telephone Exchange		
Step-by-step		
6. ATE with rotary selector, SAG, type F-6a Capacity : 40 l.u.-4 digits	1 exchange 1 rack-row	6
7. ATE with crossbar, SEL type HKS-442 Capacity : 5 l.u.-4 digits	1 mini exchange 2 units portable	3
Common Control		
8. LME -- decadic, type ARF-101 Capacity : 20 l.u.-5 digits	1 exchange 2 rack-row	6
9. LME--MFC, type ARF-102 Capacity : 20 l.u.-5 digits	1 exchange 3 rack-row	6
10. BTM, type 1000 C Capacity : 200 l.u.-6 digits	1 mini exchange 3 rack-row	4
11. NEC, type special for training Capacity : 20 l.u.-2 digits	1 mini exchange 1 cabinet	2
12. CIT (trunk exchange), type CT-4J Inlet/outlet : 120/120	1 mini exchange 3 rack-row	4
Stored Program Control (SPC)		
13. Load sharing, BTM, type MC-10 C Capacity : 10 l.u.	1 mini exchange 3 rack-row	6
14. Dual system, PTI, type PRX-205 Capacity : 40 l.u.	1 mini exchange 2 rack-row	10
C. Test-Desk		
15. SAG -- 3 cabinet desk	3 cabinet desk	
16. SEL -- 2 cabinet desk	2 cabinet desk	
17. LME -- 1 cabinet desk 1 wall type	1 cabinet desk	8
18. BTM -- 1 cabinet desk 1 wall type	1 cabinet desk	
19. PTI -- 1 wall type	1 wall type	
D. Work Bench	12 set	12

TRANSMISSION LABORATORY

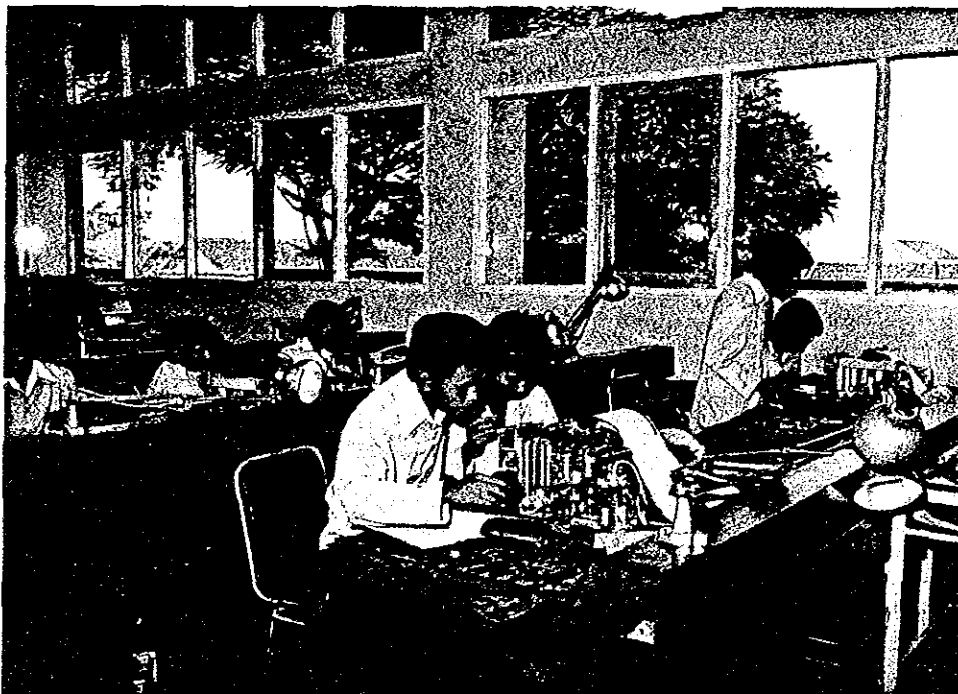
Equipment	Quantity	Seats
1. Basic Tube Electronic Experiment Kit, 161--Frose Electronic RCA	2 set	10
2. Semi Conductor Electronic Experiment Kit, type Practronic Phillips	20 set	20
3. Tube DSB Radio Receiver, type Hollandia	20 set	20
4. Fundamental Microwave Experiment Kit, type Shimada P & C -- Japan	4 set	20
5. Microwave Equipment, TR-4G1260-9B/C-N.E.C.	2 set	10
6. Multiplex Equipment, type SMA-7 CIT Alcatel and type NCM-32A -- N.E.C.	1 set/ each	5
7. Tail-Link Microwave Equipment, type RLT -- 7070 T.R.T.	2 set	5
8. Carrier Equipment, type Z--12F -- Siemens	2 set	5
9. Spur Route Microwave Equipment, type FH -- 665 Thomson	2 set	5
10. Mini Ground Station Equipment, type FST-5A Aeroford	1 set	5



TRANSMISSION

TELEGRAPH/DIGITAL LABORATORY

Equipment	Quantity	Seats
1. Teleprinter : T-100	10	12
Lo.-133	2	
2. Telegraph transmission :		
VFT System	1 set	6
TDM	1 set	
3. Telegraph Switching :		
TW - 39		8
TWK - 9	1 system	
TWK - D		
4. Digital technics I to III		
Phywe Dem Computer	1 set	8
5. Morse : Morse-key		
Morse-inker	24 set	24



TELEGRAPH

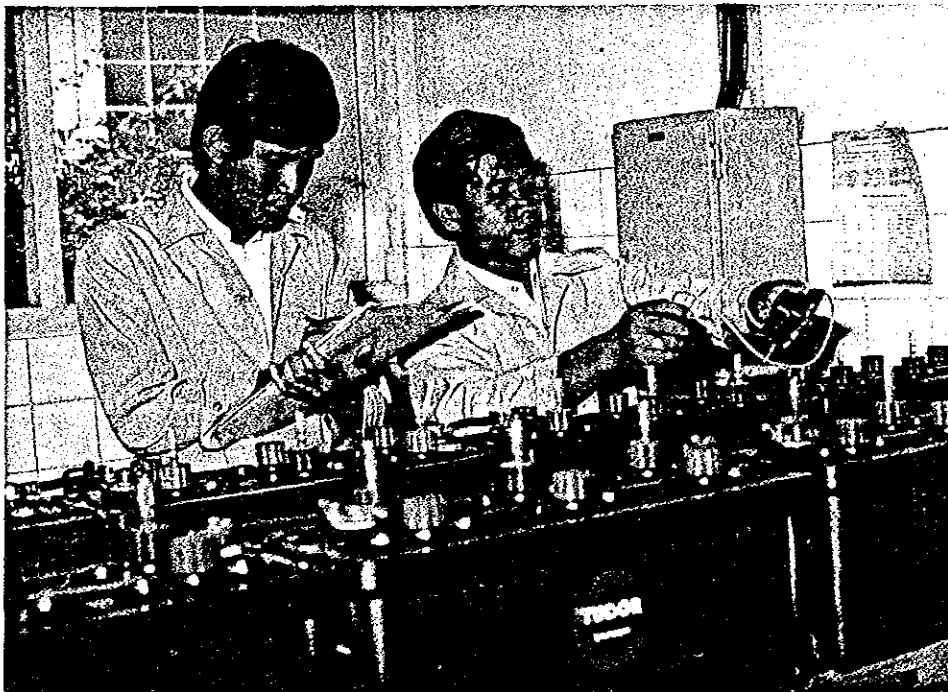
OUTSIDE PLANT LABORATORY

Equipment	Quantity	Seats
1. Cabling workshop	24 set	24
2. Measuring equipment	4 groups	16
3. BICC Workshop	12 set	12
4. Outside Installation	as required	16



POWER LABORATORY

Equipment	Quantity	Seats
1. A.V.R. TRANS SUMATERA D.R. - 25 x 2.S 32.4/24-A NEC Type 199 E	1 set	2
2. MITSUI-DEUTZ (DIESEL TRANS SUMATERA) Type F.2 L.912	1 set	4
3. RECTIFIER TRANS SUMATERA Type EC 2/4 AF 25 DI-A NEC Type 1917 E	1 set	4
4. DIESEL RUSTON 2,4 KVA 13,7 A	1 set	4
5. DIESEL DEUTZ FIL 410 A. 10.5 No. 4857138 RPM 3000	1 set	4
6. Workshop accessories	as required	20
7. Battery	11 groups	15
8. Rectifiers (Jawa-Bali, Siemens, CIT)	7 sets	12
9. Air Conditioning	1 set	6



BATTERY

LIBRARY

Publications and journals supporting education & training process at the ERD Centre, have been made available at the ERD Centre library besides the central library at the PERUMTEL Headquarters in Bandung.

A room of 31 x 13 sqm in the Administration Building of ERD Centre has been devoted for the purpose.

Books available at the ERD Centre LIBRARY:

- | | | |
|----|-----------------------|--------------------|
| on | - Electronics | - Administration, |
| | - Computer | Management, |
| | - Telegraphy | Organization |
| | - Telephony | - Physics |
| | - Telecom Engineering | - Mathematics |
| | - Power Plant. | - Social Subjects. |



LIBRARY

LANGUAGE LABORATORY

The Indonesian language is the first language and used as medium at schools and government offices. The language laboratory at the ERD Centre is used to conduct English lessons for International Telephone Operators and those who will have further study abroad and consists of 24 booths.



ADMINISTRATION BUILDING

JICA