

10.2 Recommendations for Project Implementation

Telecommunications, especially the provision of a subscriber network, is obviously very important for modern economic and social development to facilitate various kinds of activities in the country. On the other hand, as seen in the result of the technical and financial/economic analysis contained in the report, this Project is feasible as a public telecommunication service project. In a national economic sense also, its implementation is desirable.

The recommendation is hereby made that all selected Subscriber Stations (189 Subscriber Stations) in 18 Areas as shown in para. 10.1 should be implemented as planned and in strict accordance with the implementation schedule.

The followings are the main points of recommendation as regards the project execution and technical aspects related to the implementation of this Project.

1) Recommendations for Project Execution

- a) Harmonious project execution with the other projects which are now being conducted by PERUMTEL in Jakarta.
- b) Direct management and supervision of the work by PERUMTEL concerning the work from the second to fourth phase which is explained in para 8.2 of Chapter 8.
- c) Acquisition of advanced permission by PERUMTEL for the installation of equipment/material for the system in Subscriber Stations.
- d) Alternative Project Implementation Plan

As can be seen in para. 8.3 of Chapter 8, it is also possible that the following three (3) cases will be adopted as an alternative project implementation plan with due consideration of various kinds of surrounding circumstances and conditions for the implementation of this Project.

- 1 Alternative case 1 only No. 1 group (SM-2, SM-1, GB-1, GB-2)
 - 2 Alternative case 2 only No. 1 and No. 2 group
(SM-2, SM-1, GB-1, GB-2, KAL, KB, SLP, CPP,
PLM, JT)
 - 3 Alternative case 3 only SM-1, GB-1 and GB-2 of No. 1 group
- Project implementation schedule, project cost and internal rate of return for each of the above are shown in Attachment-9.

2) Recommendations on Technical Aspects

a) Antenna Towers

Antennas to be used for this Project are to be installed on existing towers and/or towers now under construction in subject Switching Centers. If towers are not available for this Project, the areas for tower construction shall be considered.

b) System

i) Common Antenna

For the purpose of efficient application of the P-MP System, antennas are to be concentrated as much as possible for common use.

For example, 48 channels/one (1) antenna (now two (2) antennas)

ii) Enlargement of System Capacity

For the purpose of efficient application of Subscriber Stations having a large number of line units, enlargement of the system capacity is required: for example, development of a system having a capacity of more than 120 channels.

c) Countermeasures for Electric Power Failure

For the purpose of efficient operation of the System, an uninterrupted power supply system is to be used in each Subscriber Station.

d) Public Telephone

In case that public telephones are connected to the Microwave Subscriber System, the public telephone signaling should be considered.

e) In the event of actual introduction of the system, the conditions of facilities such as switching equipment, MDF, etc. are to be investigated in detail.

ATTACHMENT

Attachment - 1 : Photographs

Applied System

| | |
|-------------------|-----|
| P-MP System | 239 |
| P-P System | 239 |

Switching Centers/Base Stations

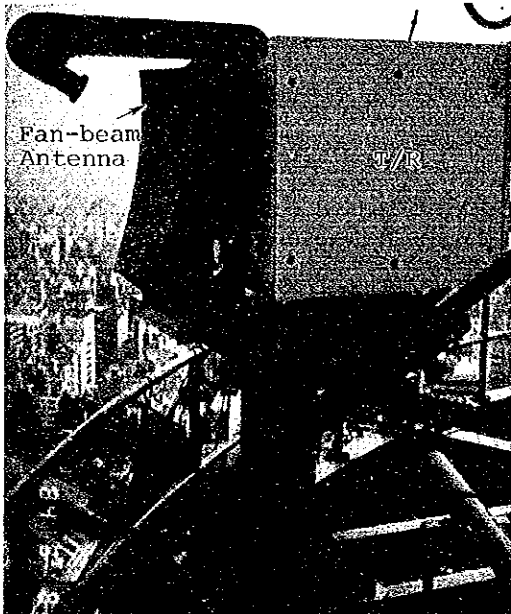
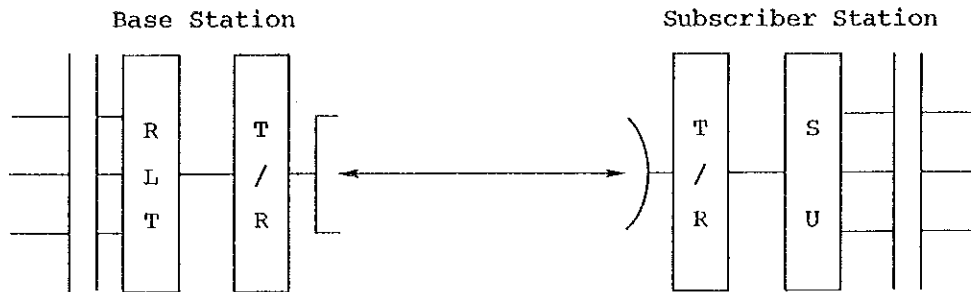
| | |
|------------|-----|
| GB-1 | 243 |
| GB-2 | 247 |
| SM-1 | 251 |
| SM-2 | 255 |
| CAW | 259 |

| | |
|---------------------------|-----|
| Subscriber Stations | 263 |
|---------------------------|-----|

| | |
|-------------------|-----|
| Mirror Test | 265 |
|-------------------|-----|

Applied System

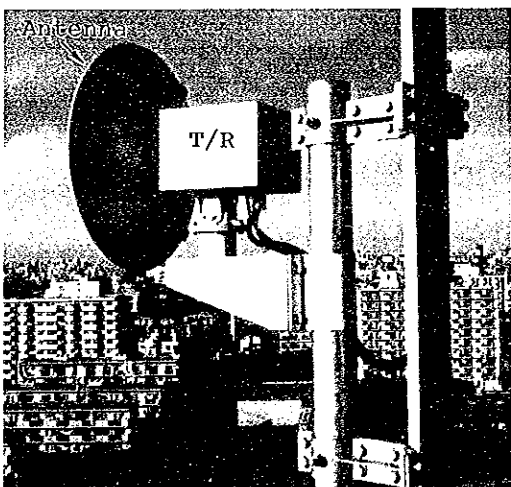
. P-PM System



P-MP System in Base Station

Base Station Equipment

- . T/R: T/R (Transmitter/Receiver) unit consists of the fan-beam antenna, transmitter, receiver and power supply block.
- . RLT: RLT (Radio Link Terminal) unit consists of the T/R interface, TDMA block, line controller, switching equipment interface, and supervisory/control interface.



P-MP System (Outdoor Type)
in Subscriber Station

Subscriber Station Equipment

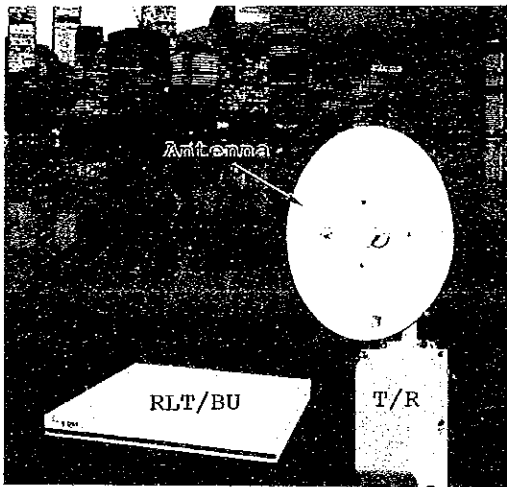
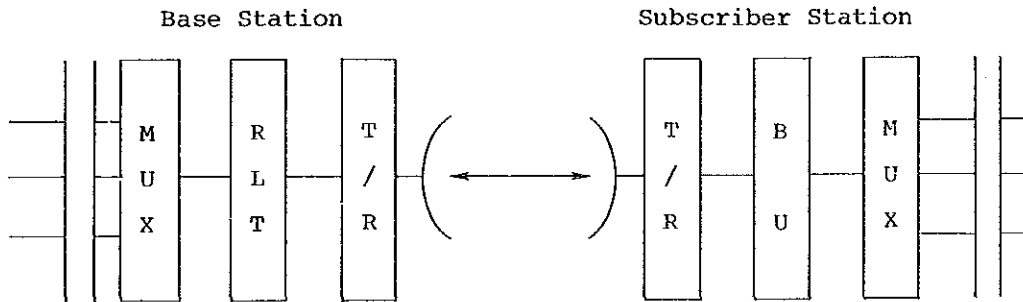
- . T/R: T/R unit consists of the antenna, transmitter, receiver and power supply block.
- . SU : SU (Service Unit) consists of the transmitter/receiver interface, TDMA block, line controller, subscriber line interface, power supply block, and others.

* Photographs of P-MP System are those of a similar system.



P-MP System (Indoor Type)
in Subscriber Station

. P-P System

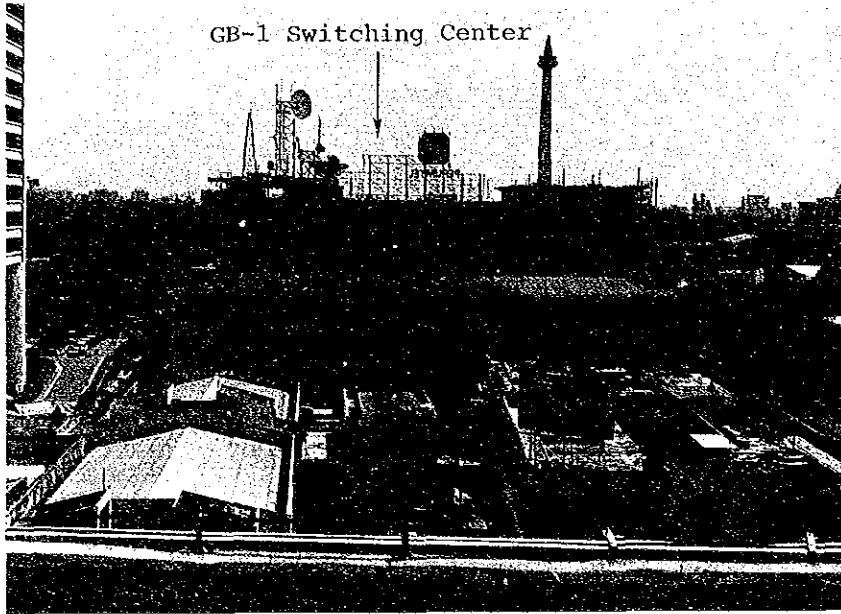


P-P System in Base Station/
Subscriber Station

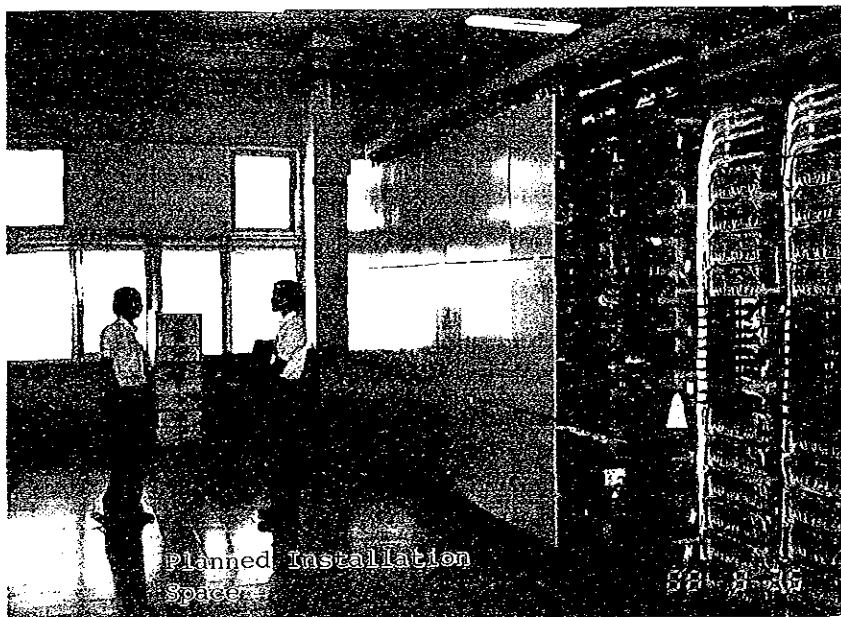
Base station equipment and Subscriber Station equipment are of almost the same configuration.

- . T/R (Transmitter/Receiver) unit consists of the antenna, transmitter, receiver and power supply block.
- . RLT/BU (Baseband Unit) consists of the T/R interface, code converter, MUX interface, and supervisory/control interface.

GB-1 (GAMBIR-1)



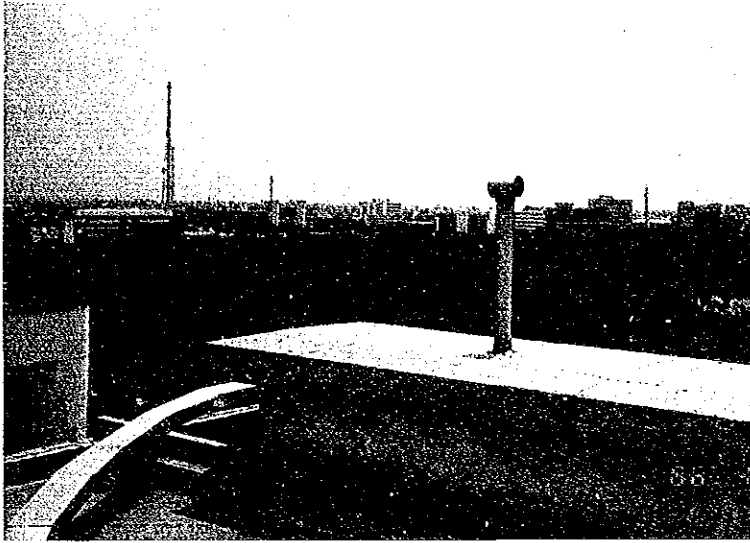
GB-1 Switching center



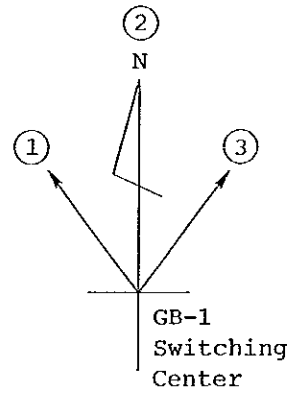
GB-1 Transmission Room on 6th Floor

Visibility from Roof of GB-1 Switching Center

①



②



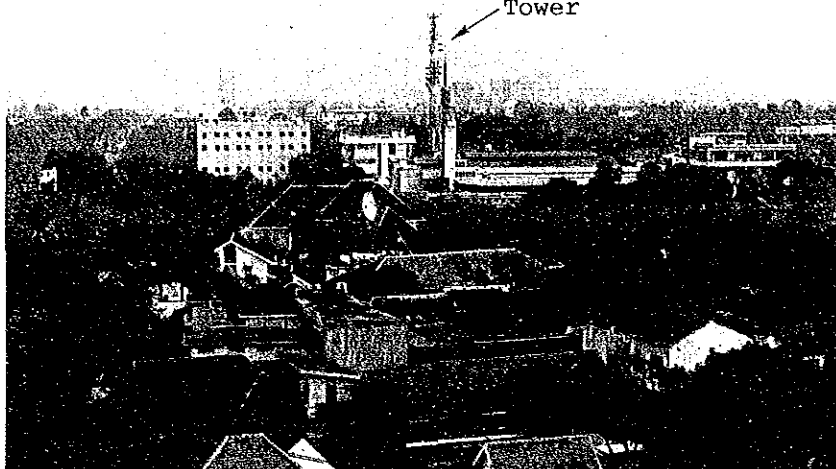
③



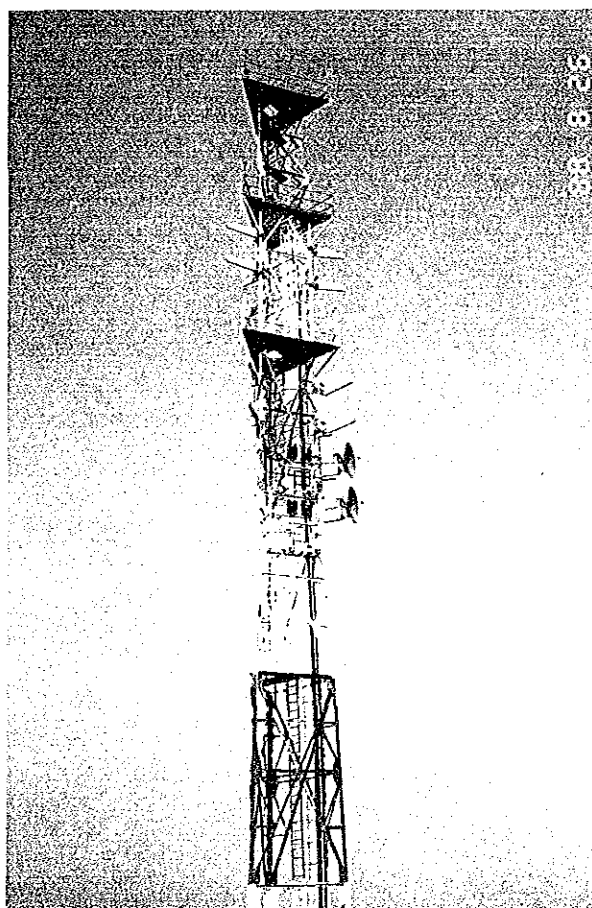
GB-2 (GAMBIR-2)

GB-2 Switching Center

Tower



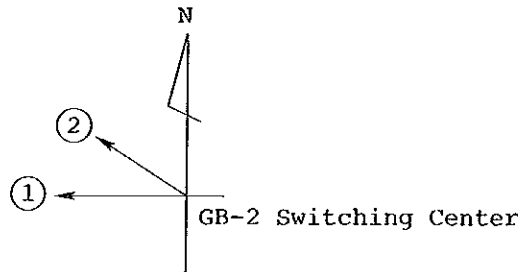
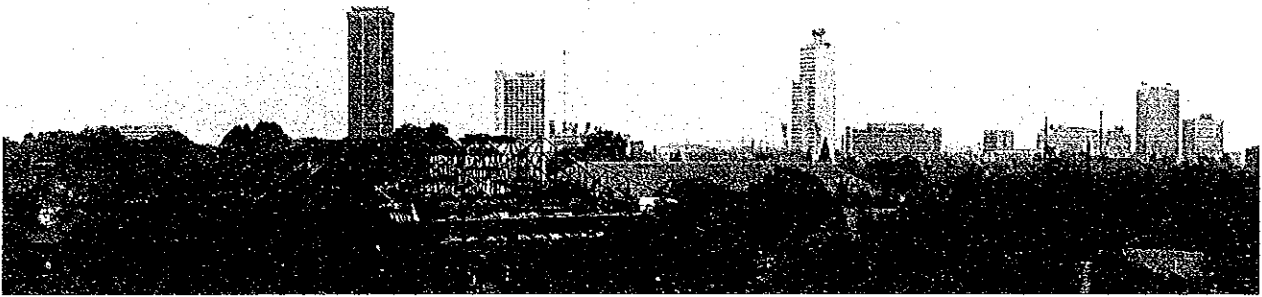
GB-2 Switching Center



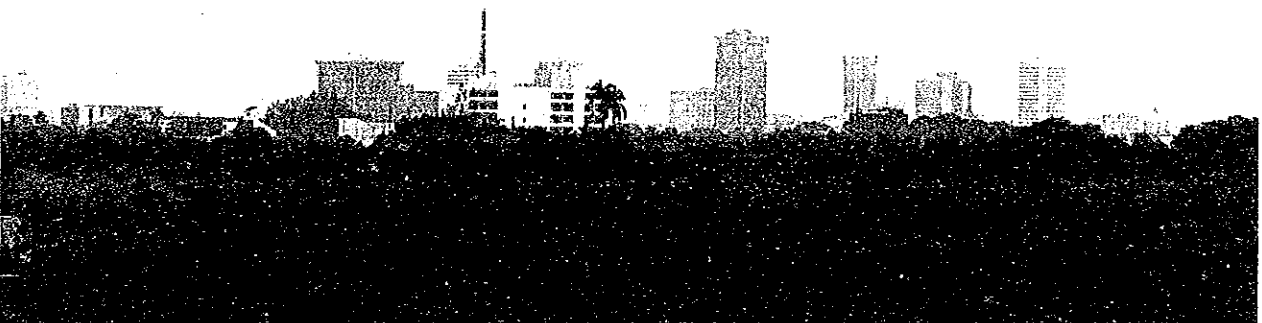
GB-2 Radio Tower

Visibility from Roof of GB-2 Switching Center

①

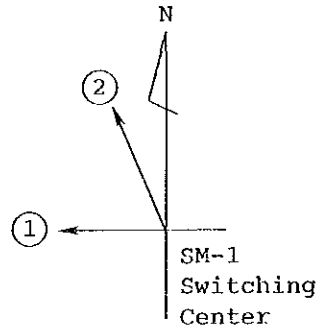


②



SM-1 (SEMANGGI-1)

①



Conditions around SM-1 Switching Center
The area in the direction of the Subscriber
Stations is obscured by high-rise buildings.

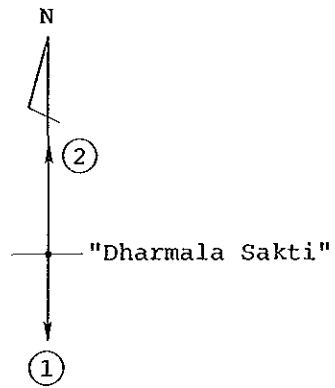
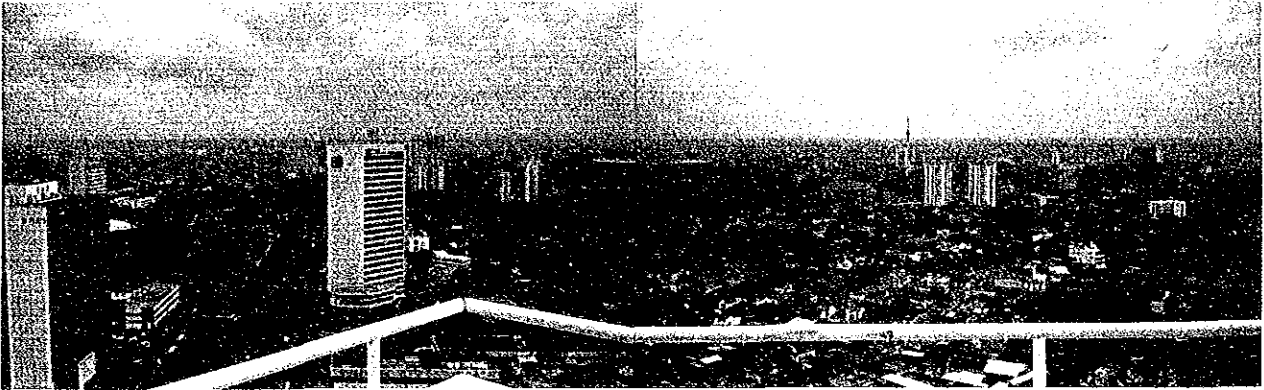
②



SM-1 Base Station "Dharmala Sakti"

Visibility from Roof of "Dharmala Sakti"

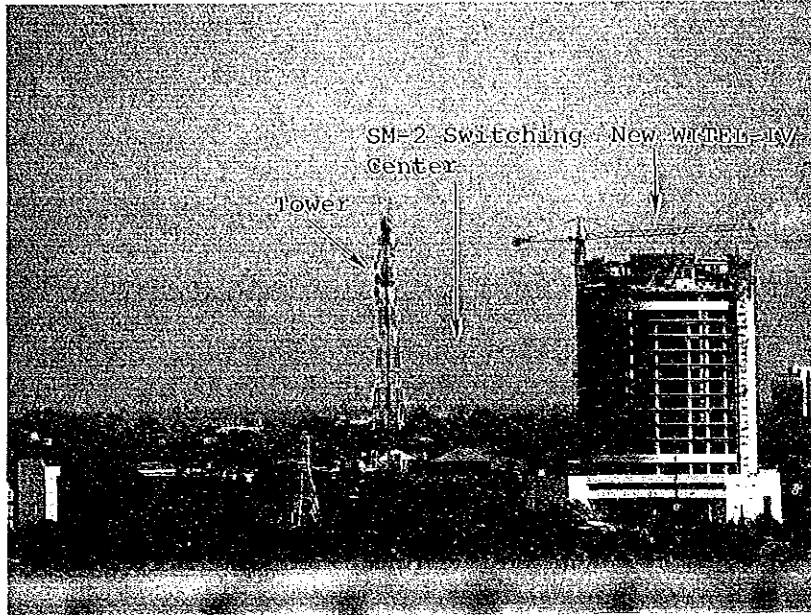
①



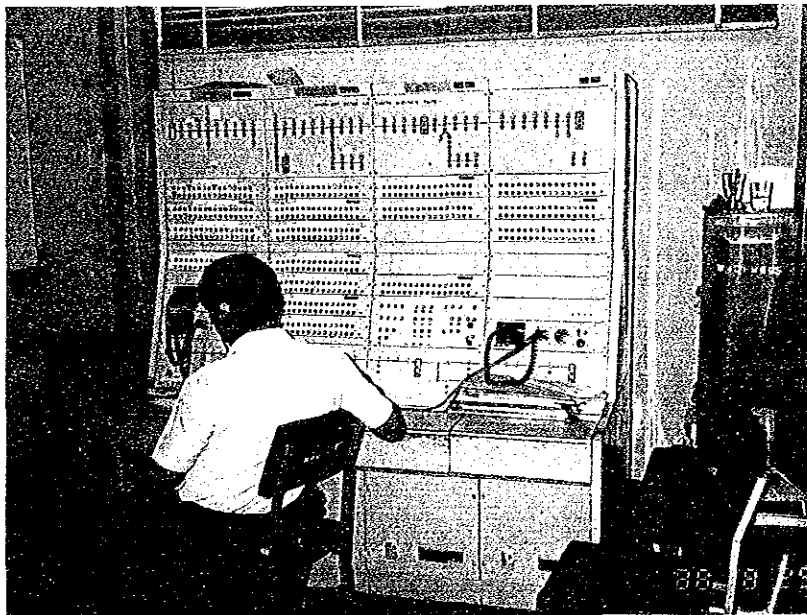
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SM-2 (SEMANGGI-2)



SM-2 Base Station (New Witel-IV)



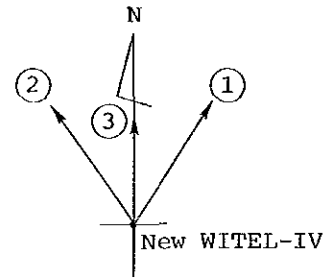
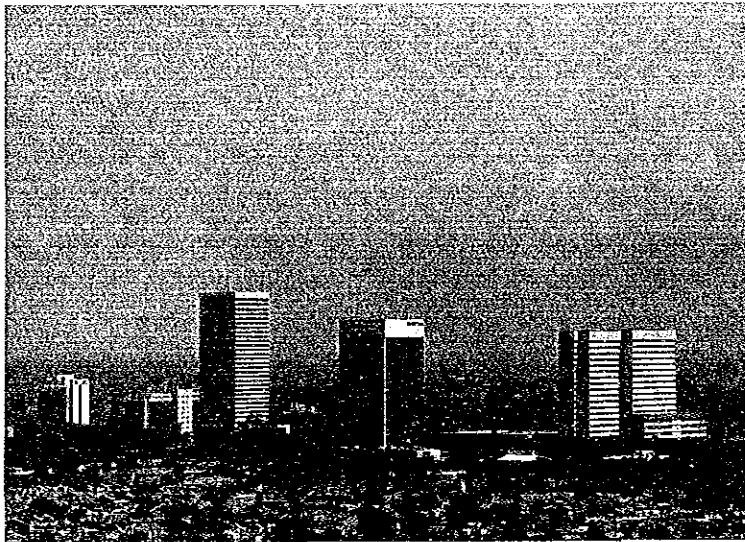
Supervisory/Control Room in SM-2 Switching Center

Visibility from Roof of New-Witel-IV

①



②



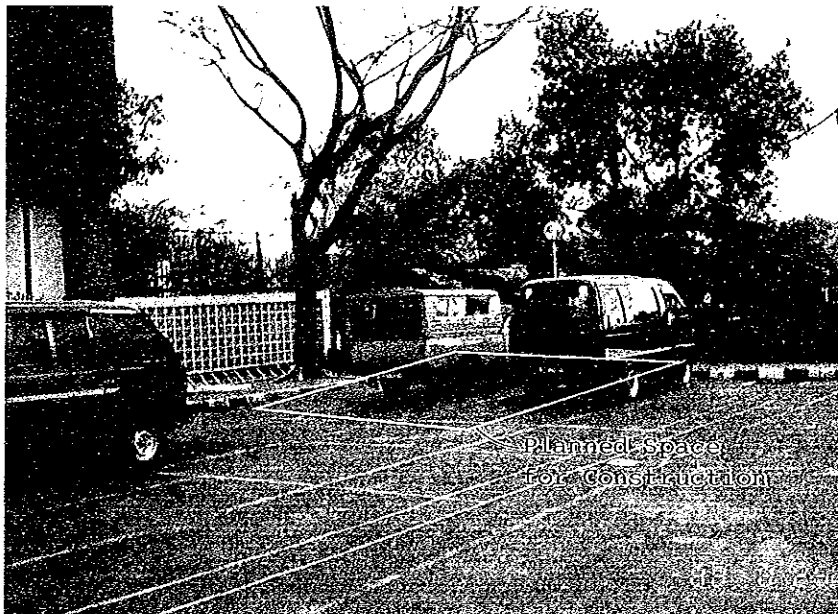
③



CAW (CAWANG)



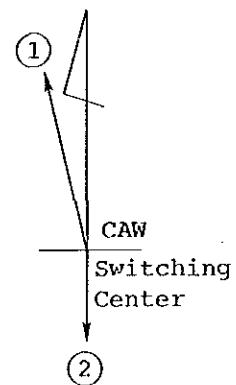
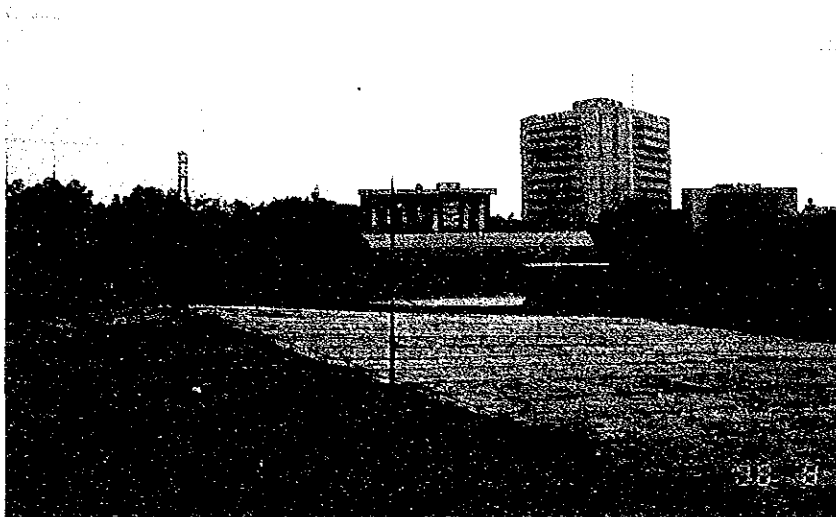
CAW Switching Center



Planned Site of Tower Construction

Visibility from Roof of CAW Switching Center

①

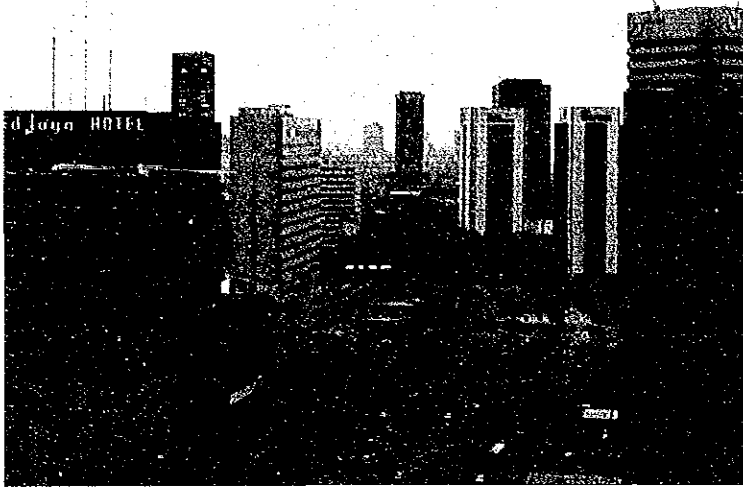


②



* It is impossible to secure visibility from the roof of the CAW Switching Center.

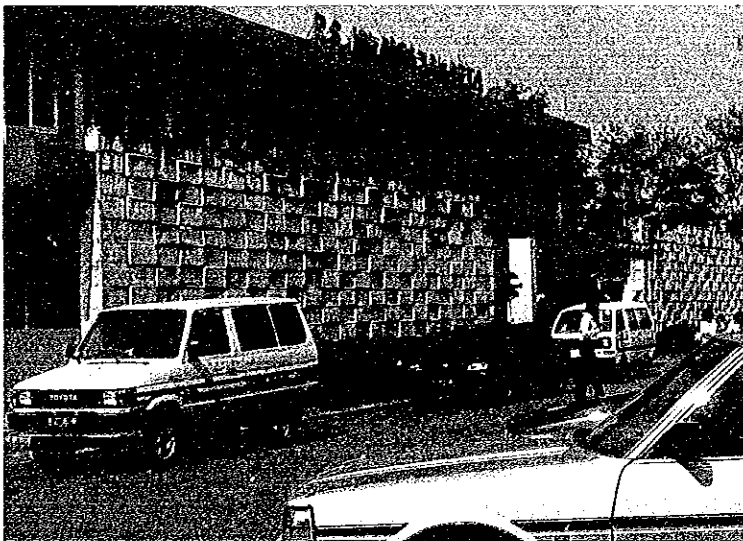
Subscriber Stations



Large Scale Subscriber
Stations
(High-rise building
along J.L.M.H. THAMRIN
in SM-1/SM-2 Areas)

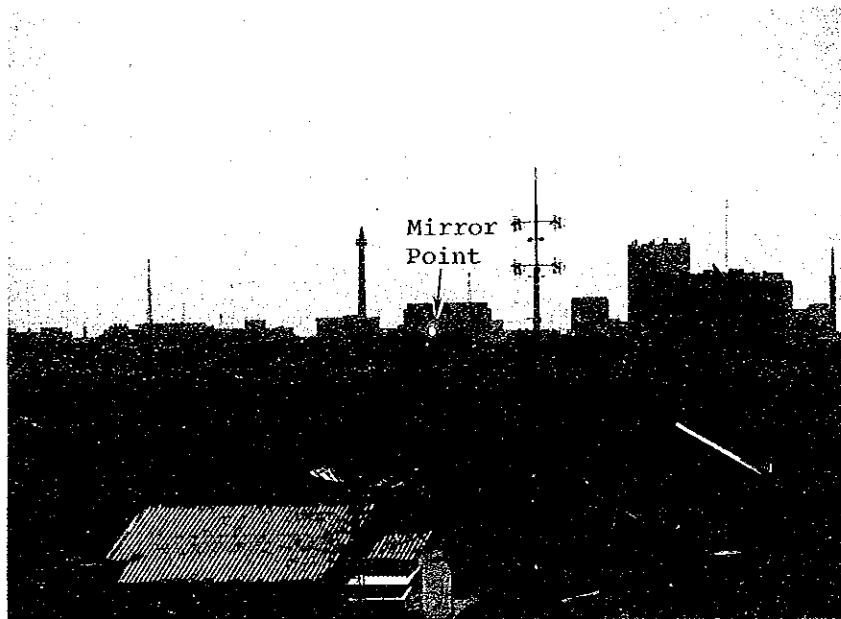
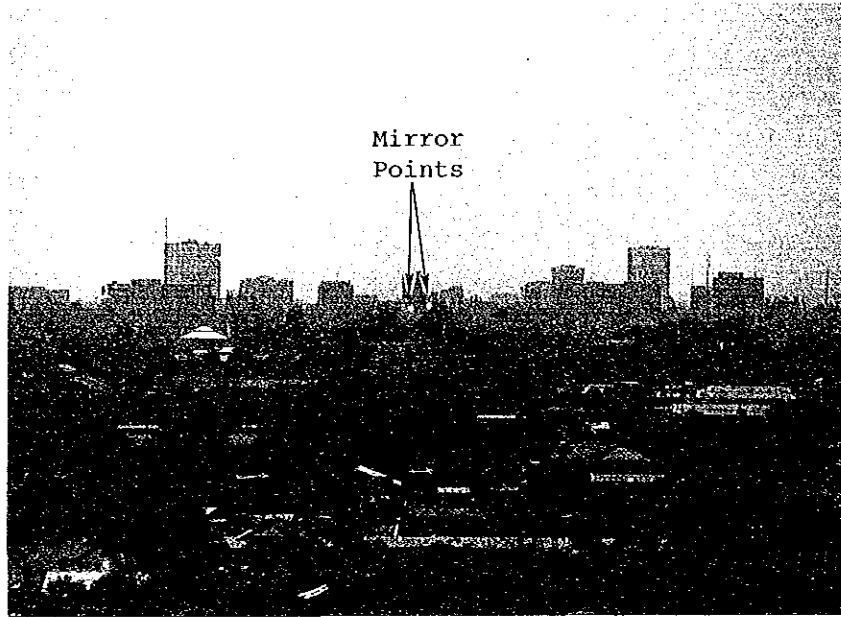


Medium Scale
Subscriber Stations
in GB-2 Area



Important Subscriber
Station in CPP Area.

Mirror Test



Attachment - 2 ; Check Sheet for Field Survey

Check Sheet for Switching Center 269

Check Sheet for Subscriber Station 273

SWITCHING CENTER INVESTIGATION

| | |
|---|---|
| ① NAME OF SWITCHING CENTER : | |
| ② CLASSIFICATION : | A. STATION OF LARGE TYPE B. STATION OF MEDIUM TYPE C. STATION OF SMALL TYPE |
| ③ ADDRESS : | |
| ④ SCOPE OF THE BUILDING etc.: | |
| ①-1 TYPE OF BUILDING : | WITH _____ STORIES ABOVE WITH _____ UNDER THE GROUND AREA PER FLOOR _____ (m ² /F) NUMBER OF FREE FLOORS _____ (F) |
| ①-2 BE BUILT OF : | A. WOOD B. REINFORCED CONCRETE C. OTHERS (_____) |
| ①-3 COMPLETED YEARS : | (MONTH), _____ (YEAR) |
| ②-1 RADIO TOWER : | EXISTENT , NON-EXISTENT NAME OF TYPE _____ HEIGHT ABOVE THE GROUND _____ (m) CAPACITY FOR PARABOLIC ANTENNA _____ FOR V.H.F ANTENNA _____ |
| ②-2 COMPLETED YEARS : | (MONTH), _____ (YEAR) |
| ⑤ CONDITIONS OF CLEARANCE : | |
| ① CLEARANCE TEST POINT : | |
| ②-1 CLEARANCE IN THE DIRECTION OF THE NORTH : | GOOD , POOR , ? |
| ②-2 CLEARANCE IN THE DIRECTION OF THE EAST : | GOOD , POOR , ? |
| ②-3 CLEARANCE IN THE DIRECTION OF THE SOUTH : | GOOD , POOR , ? |
| ②-4 CLEARANCE IN THE DIRECTION OF THE WEST : | GOOD , POOR , ? |
| ③ CONDITIONS AROUND THE BUILDING : | GOOD , POOR , ? |
| ⑥ TYPE OF EQUIPMENT INSTALLATION : | |
| ①-1 INSTALLATION PLACE OF OUTSIDE EQUIPMENT : | GOOD , POOR , ? |
| ①-2 INSTALLATION PLACE OF INDOOR EQUIPMENT : | GOOD , POOR , ? |
| ② SPACE FOR BUILDING NEW RADIO TOWER : | EXISTENT (____ m X ____ m) NON-EXISTENT |
| ③ CONDITIONS OF INSTALLATION : | _____ |

SWITCHING CENTER INVESTIGATION

| | |
|--|---------------|
| <p>⑦ CONDITIONS OF OUTSIDE PLANTS :</p> <p>① NUMBER OF LEADS IN CABLES IN CENTER (EXCEPT FOR JUNCTION CABLES) : _____ (ARTICLE)</p> <p>② NUMBER OF PAIRS OF LEADS IN CABLE IN CENTER (EXCEPT FOR JUNCTION CABLES) : _____ (PAIR)</p> <p>③-1 TOTAL NUMBER OF TERMINALS IN MDF (EXCEPT FOR JUNCTION CABLES) : _____ (TERMINAL)</p> <p>③-2 NUMBER OF TERMINALS WHICH AREN 'T USED IN MDF (EXCEPT FOR JUNCTION CABLES) : _____ (TERMINAL)</p> <p>③-3 SPACE FOR INSTALLING NEW TERMINALS IN MDF : _____</p> <p style="padding-left: 40px;">EXISTENT</p> <p style="padding-left: 40px;">IF THERE ARE TWO(2) SPACES FOR DOUBLE MDF , INDICATE THE LENGTH OF THE EACH SPACE AS FOLLO : _____ (___ m + ___ m)</p> <p style="padding-left: 40px;">NON-EXISTENT</p> <p>④ SPACE IN A CABLE VAULT FOR INSTALLING NEW CABLES WHICH ARE GOING UP THE MDF : _____</p> <p style="padding-left: 40px;">EXISTENT</p> <p style="padding-left: 40px;">IN CASE OF THE INSTALLING NEW CABLES ARE GOING UP THE BOTH-SIDE MDF IN A CABLE VAULT , INDICATE THE LENGTH OF THE EACH SPACE AS FOLLO ; _____ (___ m + ___ m)</p> <p style="padding-left: 40px;">NON-EXISTENT</p> <p>⑤ LENGTH OF SLOT WHICH ISN'T USED : _____</p> <p style="padding-left: 40px;">IF THERE ARE TWO(2) SLOTS FOR DOUBLE MDF , INDICATE THE LENGTH OF THE EACH SLOT AS FOLLO ; _____ (___ m + ___ m)</p> <p>⑥ NUMBER OF DUCTS WHICH AREN'T USED FOR THE PRIMARY CABLE IN A CABLE VAULT : _____ (DUCT)</p> | |
| <p>⑧ SECONDARY INVESTIGATION : NEED (CLEARANCE , SET UP) , NOT NECESSARY</p> | |
| <p>⑨ JUDGEMENT OF SUITABILTY : SUITABLE , UNSUITABLE , OTHER _____</p> | |
| <p>⑩ REFERENCE • NAME : _____ (TEL)</p> <p>PARKING SPACE : _____</p> <p>THE NEAREST ST. : _____ THE TIME REQUIRED :</p> <p>REMARKS : (THE TARGETS etc.) _____</p> | |
| <p>DATE : _____ (DAY), _____ (MONTH), 1988</p> | <p>NAME :</p> |

SWITCHING CENTER INVESTIGATION

| ① CONDITIONS OF INSIDE PLANTS : | | ①-2 SWITCHING EQUIPMENT : | |
|--|----------|--------------------------------------|----------|
| ①-1 SWITCHING EQUIPMENT : | | ①-2 SWITCHING EQUIPMENT : | |
| NAME OF THE EQUIPMENT | ..... | NAME OF THE EQUIPMENT | ..... |
| NUMBERING | ..... | NUMBERING | ..... |
| RANGE OF SUBSCRIBER NUMBER | ..... | RANGE OF SUBSCRIBER NUMBER | ..... |
| CAPACITY OF SUBSCRIBER LINE TERMINAL | | CAPACITY OF SUBSCRIBER LINE TERMINAL | |
| (TERMINAL) | | (TERMINAL) | |
| NUMBER OF SUBSCRIBERS | ..... | NUMBER OF SUBSCRIBERS | ..... |
| GENERAL | ..... | GENERAL | ..... |
| PUBLIC | ..... | PUBLIC | ..... |
| PBX | ..... | PBX | ..... |
| CES | ..... | CES | ..... |
| CALLING RATE ORIGINATING | ..... | CALLING RATE ORIGINATING | ..... |
| | (ERLANG) | | (ERLANG) |
| TERMINATING | ..... | TERMINATING | ..... |
| | (ERLANG) | | (ERLANG) |
| TRAFFIC DENSITY CORRESPONDING TO | ..... | TRAFFIC DENSITY CORRESPONDING TO | ..... |
| LOCAL CALL | (ERLANG) | LOCAL CALL | (ERLANG) |
| LONG DISTANCE CALL | ..... | LONG DISTANCE CALL | ..... |
| | (ERLANG) | | (ERLANG) |
| INTERNATIONAL CALL | ..... | INTERNATIONAL CALL | ..... |
| | (ERLANG) | | (ERLANG) |
| MEAN HOLDING TIME CORRESPONDING TO | ..... | MEAN HOLDING TIME CORRESPONDING TO | ..... |
| LOCAL CALL | (SEC.) | LOCAL CALL | (SEC.) |
| LONG DISTANCE CALL | ..... | LONG DISTANCE CALL | ..... |
| | (SEC.) | | (SEC.) |
| INTERNATIONAL CALL | ..... | INTERNATIONAL CALL | ..... |
| | (SEC.) | | (SEC.) |
| CONCENTRATION RATIO OF BUSY HOUR | ..... | CONCENTRATION RATIO OF BUSY HOUR | ..... |
| | (%) | | (%) |
| RATIO OF SUCCESSFUL CONNECTION | ..... | RATIO OF SUCCESSFUL CONNECTION | ..... |
| | (%) | | (%) |
| ANOTHER SHEET | | | |
| EXISTENT , NON-EXISTENT | | | |
| ②-1 KIND OF THE COMMERCIAL POWER SOURCE : | ..... | (V) | (φ) |
|  | ..... | (V) | (φ) |
| ②-2 POWER RECEIVING CAPACITY : | ..... |  | (KVA) |
|  | ..... |  | (KVA) |
| ②-3 NON-INTERRUPTION ELECTRIC POWER SUPPLIER : | ..... | (V) | (φ) |
|  | ..... |  | (Hz) |
| | | HOLDING TIME OF POWER | ..... |
| | | | (HOURS) |
| DATE :(DAY), .....(MONTH), 1988 | | NAME : | |

SWITCHING CENTER INVESTIGATION

| | | | |
|--|------------|--------------------------------------|------------|
| ① CONDITIONS OF INSIDE PLANTS : | | ① SWITCHING EQUIPMENT : | |
| ① SWITCHING EQUIPMENT : | | ① SWITCHING EQUIPMENT : | |
| NAME OF THE EQUIPMENT | ..... | NAME OF THE EQUIPMENT | ..... |
| NUMBERING | ..... | NUMBERING | ..... |
| RANGE OF SUBSCRIBER NUMBER | ..... | RANGE OF SUBSCRIBER NUMBER | ..... |
| CAPACITY OF SUBSCRIBER LINE TERMINAL | ..... | CAPACITY OF SUBSCRIBER LINE TERMINAL | ..... |
| | (TERMINAL) | | (TERMINAL) |
| NUMBER OF SUBSCRIBERS | ..... | NUMBER OF SUBSCRIBERS | ..... |
| GENERAL | ..... | GENERAL | ..... |
| PUBLIC | ..... | PUBLIC | ..... |
| PBX | ..... | PBX | ..... |
| CES | ..... | CES | ..... |
| CALLING RATE | ..... | CALLING RATE | ..... |
| ORIGINATING | ..... | ORIGINATING | ..... |
| | (ERLANG) | | (ERLANG) |
| TERMINATING | ..... | TERMINATING | ..... |
| | (ERLANG) | | (ERLANG) |
| TRAFFIC DENSITY CORRESPONDING TO | ..... | TRAFFIC DENSITY CORRESPONDING TO | ..... |
| LOCAL CALL | ..... | LOCAL CALL | ..... |
| | (ERLANG) | | (ERLANG) |
| LONG DISTANCE CALL | ..... | LONG DISTANCE CALL | ..... |
| | (ERLANG) | | (ERLANG) |
| INTERNATIONAL CALL | ..... | INTERNATIONAL CALL | ..... |
| | (ERLANG) | | (ERLANG) |
| MEAN HOLDING TIME CORRESPONDING TO | ..... | MEAN HOLDING TIME CORRESPONDING TO | ..... |
| LOCAL CALL | ..... | LOCAL CALL | ..... |
| | (SEC.) | | (SEC.) |
| LONG DISTANCE CALL | ..... | LONG DISTANCE CALL | ..... |
| | (SEC.) | | (SEC.) |
| INTERNATIONAL CALL | ..... | INTERNATIONAL CALL | ..... |
| | (SEC.) | | (SEC.) |
| CONCENTRATION RATIO OF BUSY HOUR | ..... | CONCENTRATION RATIO OF BUSY HOUR | ..... |
| | (%) | | (%) |
| RATIO OF SUCCESSFUL CONNECTION | ..... | RATIO OF SUCCESSFUL CONNECTION | ..... |
| | (%) | | (%) |
| ANOTHER SHEET EXISTENT , NON-EXISTENT | | | |
| DATE : (DAY), (MONTH), 1988 | | NAME : | |

DEMAND INVESTIGATION

| | |
|---|--|
| ① NAME OF SWITCHING CENTERS TO BE TERMINATED : | |
| ② CLASSIFICATION : | A • BUILDING B • LARGE SUBSCRIBER C • IMPORTANT SUBSCRIBER |
| ③ NAME OF THE BUILDING : | ..... |
| NAME OF ADMINISTRATOR : | (TEL) |
| ADDRESS : | ..... |
| ④ SCOPE OF THE BUILDING etc.: | |
| ①-1 TYPE OF BUILDING : | A • MONOPOLY B • TOGETHER WITH STORIES ABOVE WITH UNDER THE GROUND AREA PER FLOOR (m ² /F) NUMBER OF FREE FLOORS (F) |
| ①-2 BE BUILT OF : | A • WOOD B • REINFORCED CONCRETE C • OTHERS (.....) |
| ①-3 COMPLETED YEARS : | (MONTH), (YEAR) |
| ② NUMBER OF CLASSIFIED TENANTS AND EMPLOYEES : | <TENANT> <EMPLOYEE> |
| CLASS A • GOVERNMENT AND MUNICIPAL OFFICE ; | , |
| B • FINANCIAL BUSINESS OFFICE AND TRADING FIRM ; | , |
| C • RETAIL STORE , WHOLESALE SHOP ; | , |
| D • TRAFFIC AND COMMUNICATION SERVICE ; | , |
| E • HOTEL , HOSPITAL ; | , |
| F • FOREIGN CORPORATION OFFICE ; | , |
| G • EATING HOUSE ; | , |
| H • OTHERS ; | , |
| ③ SERVICE ORDER : | NUMBER OF LINES , SERVICE TIME |
| ⑤ CONDITIONS OF TERMINAL INSTALLATIONS : | |
| ① ACCOMMODATED "RK" NUMBER : | ..... |
| ② NUMBER OF LEADS IN CABLES IN BUILDING : | (ARTICLE) |
| ③-1 NUMBER OF PAIRS OF LEADS IN CABLE IN BUILDING : | (PAIR) |
| ③-2 NUMBER OF PAIRS OF WORKING LEADS IN CABLE IN BUILDING : | (PAIR) |
| ④ NUMBER OF DUCTS WHICH AREN'T USED AT A SERVICE ENTRANCE : | (DUCT) |
| ⑤-1 TYPE OF DISTRIBUTION OF LEADS IN CABLE IN A BUILDING , | |
| INDICATE AS FOLLOWS : | UNDERGROUND(TYPE) → ⑤-2 AERIAL(TYPE) → ⑥-1 |
| ⑤-2 IN CASE OF UNDERGROUND TYPE . | |
| INDICATE AS FOLLOWS : | DUCT(TYPE) → ⑤-3 DIRECT BURIED(TYPE) → ⑥-1 |
| ⑤-3 NUMBER OF CONDUITS WHICH AREN'T USED : | (DUCT) |

BASE-STATION INVESTIGATION

| | |
|---|---|
| ① NAME OF SWITCHING CENTER : | |
| ② CLASSIFICATION | : A. STATION OF LARGE TYPE B. STATION OF MEDIUM TYPE C. STATION OF SMALL TYPE |
| ③ ADDRESS : | |
| ④ CONDITIONS OF CLEARANCE : | |
| ① | ROOFTOP LEVEL ABOVE THE GROUND : _____ (m) |
| ②-1 | CLEARANCE IN THE DIRECTION OF THE NORTH : |
| | TEST POINT : _____ , GOOD , POOR |
| | CONDITIONS AROUND THE BUILDING _____ |
| ②-2 | CLEARANCE IN THE DIRECTION OF THE EAST : |
| | TEST POINT : _____ , GOOD , POOR |
| | CONDITIONS AROUND THE BUILDING _____ |
| ②-3 | CLEARANCE IN THE DIRECTION OF THE SOUTH : |
| | TEST POINT : _____ , GOOD , POOR |
| | CONDITIONS AROUND THE BUILDING _____ |
| ②-4 | CLEARANCE IN THE DIRECTION OF THE WEST : |
| | TEST POINT : _____ , GOOD , POOR |
| | CONDITIONS AROUND THE BUILDING _____ |
| ⑤ TYPE OF EQUIPMENT INSTALLATION : | |
| ①-1 | INSTALLATION PLACE OF OUTSIDE EQUIPMENT : GOOD (_____ m X _____ m) POOR |
| | CONDITIONS OF INSTALLATION _____ |
| ①-2 | INSTALLATION PLACE OF INDOOR EQUIPMENT : (_____ , _____ m X _____ m) (_____ , _____ m X _____ m) |
| | CONDITIONS OF INSTALLATION _____ |
| ③ | SAFETY LOAD ON THE FLOOR : _____ (kg/m ²) |
| ⑥ REFERENCE • NAME : _____ (TEL) _____ | |
| PARKING SPACE : _____ | |
| THE NEAREST ST. : _____ THE TIME REQUIRED : _____ | |
| REMARKS : (THE TARGETS etc.) _____ | |
| DATE : _____ (DAY), _____ (MONTH), 1988 | |
| NAME : | |

DEMAND INVESTIGATION

| | |
|---|--|
| ① NAME OF SWITCHING CENTERS TO BE TERMINATED : | |
| ② CLASSIFICATION | : A • BUILDING B • LARGE SUBSCRIBER C • IMPORTANT SUBSCRIBER |
| ③ NAME OF THE BUILDING | : |
| NAME OF ADMINISTRATOR | : (TEL) |
| ADDRESS | : |
| ④ CONDITIONS OF TERMINAL INSTALLATIONS : | |
| ①-1 NUMBER OF TERMINALS IN THE EXISTING DISTRIBUTION FRAME : | (TERMINAL) |
| ①-2 NUMBER OF TERMINALS WHICH AREN'T USED IN THE EXISTING DISTRIBUTION FRAME : | (TERMINAL) |
| ①-3 IN CASE WHERE THE TERMINAL ISN'T AVAILABLE IN THE EXISTING DISTRIBUTION FRAME , INDICATE THE SPACE FOR THE DISTRIBUTION FRAME NEWLY INSTALLED AS FOLLOWS : | SPACE NUMBER OF TERMINALS (TERMINAL) NON-SPACE |
| ②-1 TERMINAL EQUIPMENT ① KT (TYPE) | NAME OF THE EQUIPMENT |
| | ELECTRIC POWER SOURCE |
| | CAPACITY EXTENSION / LINE |
| ANOTHER SHEET | / |
| EXISTENT , NON-EXISTENT | BE USED / |
| | SET UP YEAR (MONTH), (YEAR) |
| (USER'S NAME) | ..... |
| ②-2 TERMINAL EQUIPMENT ① PBX (TYPE) | NAME OF THE EQUIPMENT |
| | ELECTRIC POWER SOURCE |
| | CAPACITY EXTENSION / LINE |
| ANOTHER SHEET | / |
| EXISTENT , NON-EXISTENT | BE USED / |
| | SET UP YEAR (MONTH), (YEAR) |
| (USER'S NAME) | ..... |
| ②-3 TERMINAL EQUIPMENT ① CES (TYPE) | NAME OF THE EQUIPMENT |
| | ELECTRIC POWER SOURCE |
| | CAPACITY EXTENSION / LINE |
| ANOTHER SHEET | / |
| EXISTENT , NON-EXISTENT | BE USED / |
| | SET UP YEAR (MONTH), (YEAR) |
| (USER'S NAME) | ..... |
| ③-1 KIND OF THE COMMERCIAL POWER SOURCE : | (V) (φ) (Hz) |
| | (V) (φ) (Hz) |
| ③-2 NON-INTERRUPTION ELECTRIC POWER SUPPLIER : | (V) (φ) (Hz) |
| | HOLDING TIME OF POWER (HOURS) |

DEMAND INVESTIGATION

④ CONDITIONS OF TERMINAL INSTALLATION :

②-1 TERMINAL EQUIPMENT ② KT (TYPE) NAME OF THE EQUIPMENT _____
 ELECTRIC POWER SOURCE _____
 CAPACITY EXTENSION / LINE _____
 BE USED _____
 SET UP YEAR (MONTH), (YEAR)

(USER'S NAME) _____

TERMINAL EQUIPMENT ③ KT (TYPE) NAME OF THE EQUIPMENT _____
 ELECTRIC POWER SOURCE _____
 CAPACITY EXTENSION / LINE _____
 BE USED _____
 SET UP YEAR (MONTH), (YEAR)

(USER'S NAME) _____

TERMINAL EQUIPMENT ④ KT (TYPE) NAME OF THE EQUIPMENT _____
 ELECTRIC POWER SOURCE _____
 CAPACITY EXTENSION / LINE _____
 BE USED _____
 SET UP YEAR (MONTH), (YEAR)

(USER'S NAME) _____

TERMINAL EQUIPMENT ⑤ KT (TYPE) NAME OF THE EQUIPMENT _____
 ELECTRIC POWER SOURCE _____
 CAPACITY EXTENSION / LINE _____
 BE USED _____
 SET UP YEAR (MONTH), (YEAR)

(USER'S NAME) _____

TERMINAL EQUIPMENT ⑥ KT (TYPE) NAME OF THE EQUIPMENT _____
 ELECTRIC POWER SOURCE _____
 CAPACITY EXTENSION / LINE _____
 BE USED _____
 SET UP YEAR (MONTH), (YEAR)

(USER'S NAME) _____

TERMINAL EQUIPMENT ⑦ KT (TYPE) NAME OF THE EQUIPMENT _____
 ELECTRIC POWER SOURCE _____
 CAPACITY EXTENSION / LINE _____
 BE USED _____
 SET UP YEAR (MONTH), (YEAR)

(USER'S NAME) _____

DEMAND INVESTIGATION

④ CONDITIONS OF TERMINAL INSTALLATION :

| | | | | | |
|-----|--------------------|---|---------------|-----------------------|-----------------------------|
| ②-2 | TERMINAL EQUIPMENT | ② | PBX (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | | | ELECTRIC POWER SOURCE | ..... |
| | | | | CAPACITY | ..... |
| | | | | EXTENSION / | ..... |
| | | | | LINE | ..... |
| | | | | BE USED | ..... |
| | | | | SET UP YEAR | (MONTH), (YEAR) |
| | | | (USER'S NAME) | | |
| | TERMINAL EQUIPMENT | ③ | PBX (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | | | ELECTRIC POWER SOURCE | ..... |
| | | | | CAPACITY | ..... |
| | | | | EXTENSION / | ..... |
| | | | | LINE | ..... |
| | | | | BE USED | ..... |
| | | | | SET UP YEAR | (MONTH), (YEAR) |
| | | | (USER'S NAME) | | |
| | TERMINAL EQUIPMENT | ④ | PBX (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | | | ELECTRIC POWER SOURCE | ..... |
| | | | | CAPACITY | ..... |
| | | | | EXTENSION / | ..... |
| | | | | LINE | ..... |
| | | | | BE USED | ..... |
| | | | | SET UP YEAR | (MONTH), (YEAR) |
| | | | (USER'S NAME) | | |
| | TERMINAL EQUIPMENT | ⑤ | PBX (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | | | ELECTRIC POWER SOURCE | ..... |
| | | | | CAPACITY | ..... |
| | | | | EXTENSION / | ..... |
| | | | | LINE | ..... |
| | | | | BE USED | ..... |
| | | | | SET UP YEAR | (MONTH), (YEAR) |
| | | | (USER'S NAME) | | |
| | TERMINAL EQUIPMENT | ⑥ | PBX (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | | | ELECTRIC POWER SOURCE | ..... |
| | | | | CAPACITY | ..... |
| | | | | EXTENSION / | ..... |
| | | | | LINE | ..... |
| | | | | BE USED | ..... |
| | | | | SET UP YEAR | (MONTH), (YEAR) |
| | | | (USER'S NAME) | | |
| | TERMINAL EQUIPMENT | ⑦ | PBX (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | | | ELECTRIC POWER SOURCE | ..... |
| | | | | CAPACITY | ..... |
| | | | | EXTENSION / | ..... |
| | | | | LINE | ..... |
| | | | | BE USED | ..... |
| | | | | SET UP YEAR | (MONTH), (YEAR) |
| | | | (USER'S NAME) | | |

DEMAND INVESTIGATION

④ CONDITIONS OF TERMINAL INSTALLATION :

| | | | |
|-----|---------------------------------|-----------------------|-----------------------------|
| ②-3 | TERMINAL EQUIPMENT ② CES (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | ELECTRIC POWER SOURCE | ..... |
| | | CAPACITY | EXTENSION / LINE |
| | | | / |
| | | BE USED | / |
| | | SET UP YEAR | (MONTH), (YEAR) |
| | (USER'S NAME) |  | ..... |
| | TERMINAL EQUIPMENT ③ CES (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | ELECTRIC POWER SOURCE | ..... |
| | | CAPACITY | EXTENSION / LINE |
| | | | / |
| | | BE USED | / |
| | | SET UP YEAR | (MONTH), (YEAR) |
| | (USER'S NAME) |  | ..... |
| | TERMINAL EQUIPMENT ④ CES (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | ELECTRIC POWER SOURCE | ..... |
| | | CAPACITY | EXTENSION / LINE |
| | | | / |
| | | BE USED | / |
| | | SET UP YEAR | (MONTH), (YEAR) |
| | (USER'S NAME) |  | ..... |
| | TERMINAL EQUIPMENT ⑤ CES (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | ELECTRIC POWER SOURCE | ..... |
| | | CAPACITY | EXTENSION / LINE |
| | | | / |
| | | BE USED | / |
| | | SET UP YEAR | (MONTH), (YEAR) |
| | (USER'S NAME) |  | ..... |
| | TERMINAL EQUIPMENT ⑥ CES (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | ELECTRIC POWER SOURCE | ..... |
| | | CAPACITY | EXTENSION / LINE |
| | | | / |
| | | BE USED | / |
| | | SET UP YEAR | (MONTH), (YEAR) |
| | (USER'S NAME) |  | ..... |
| | TERMINAL EQUIPMENT ⑦ CES (TYPE) | NAME OF THE EQUIPMENT | ..... |
| | | ELECTRIC POWER SOURCE | ..... |
| | | CAPACITY | EXTENSION / LINE |
| | | | / |
| | | BE USED | / |
| | | SET UP YEAR | (MONTH), (YEAR) |
| | (USER'S NAME) |  | ..... |

DEMAND INVESTIGATION

| | |
|---|---|
| ⑤ CONDITIONS OF CLEARANCE : | |
| ① ROOFTOP LEVEL ABOVE THE GROUND : | (m) |
| ②-1 CLEARANCE IN THE DIRECTION OF THE TELEPHONE EXCHANGES : | |
| TEST POINT : FROM THE () FLOOR ; | GOOD , POOR |
| FROM THE () FLOOR ; | GOOD , POOR |
| FROM THE ROOFTOP ; | GOOD , POOR |
| CONDITIONS AROUND THE BUILDING | |
| <hr/> ②-2 CLEARANCE IN THE DIRECTION OF THE TELEPHONE EXCHANGES : | |
| TEST POINT : FROM THE () FLOOR ; | GOOD , POOR |
| FROM THE () FLOOR ; | GOOD , POOR |
| FROM THE ROOFTOP ; | GOOD , POOR |
| CONDITIONS AROUND THE BUILDING | |
| <hr/> ②-3 CLEARANCE IN THE DIRECTION OF THE TELEPHONE EXCHANGES : | |
| TEST POINT : FROM THE () FLOOR ; | GOOD , POOR |
| FROM THE () FLOOR ; | GOOD , POOR |
| FROM THE ROOFTOP ; | GOOD , POOR |
| CONDITIONS AROUND THE BUILDING | |
| <hr/> ⑥ TYPE OF THE EQUIPMENT SET UP : | |
| ①-1 INSTALLATION PLACE OF OUTSIDE EQUIPMENT : | GOOD (m X m) POOR |
| CONDITIONS OF INSTALLATION | |
| ①-2 INSTALLATION PLACE OF INDOOR EQUIPMENT : | (, m X m) (, m X m) (, m X m) |
| CONDITIONS OF INSTALLATION | |
| ② SAFETY LOAD ON THE FLOOR : | (kg/m ²) |
| ③ TYPE OF WINDOW GLASS : | |
| <hr/> ⑦ REFERENCE • NAME : (TEL) | |
| PARKING SPACE : | |
| THE NEAREST ST. : | THE TIME REQUIRED : |
| REMARKS : | (THE TARGETS etc.) |
| <hr/> DATE : (DAY), (MONTH), 1988 NAME : | |

Attachment - 3 : Situation of Switching Centers

| | |
|-------------------------------------|-----|
| Situation of Switching Center | 283 |
| Data regarding Calling Rate | 285 |

Table AT3-1 Situation of Switching Center (1/2)

| NO. | STO | CAPT | SUBF | WAIT | WAIT+SUBT | GENT | PUBT | PBKT | OTHERS | Bld | F/I | TWR/H | CL: N / E / S / W | CIRCUM | SPO | SPI | SPT | POW |
|---------|------|---------|---------|---------|-----------|---------|-------|--------|--------|-----|-----|-------|-------------------|--------|-----|-----|-------|-----|
| 1 | ANC | 8,448 | 6,303 | 4,061 | 10,364 | 5,917 | 42 | 207 | 137 | 2F | I-1 | - | o o o o | Sub | G | G | P | G |
| 2 | CAN | 6,144 | 4,287 | 3,589 | 7,876 | 4,016 | 72 | 126 | 73 | 2F | I-1 | - | o x x o | Sub | G | G | 20x10 | G |
| 3 | CPP | 24,188 | 13,026 | 5,073 | 18,099 | 12,007 | 106 | 535 | 378 | 4F | F-2 | - | o o o o | Sub | G | G | 14x14 | G |
| 4 | CGK | 7,936 | 5,774 | 13,065 | 18,839 | 5,356 | 23 | 306 | 89 | 2F | I-1 | G/35 | o o o o | Sub | G | G | 10x10 | - |
| 5 | CIL | 0 | 0 | - | - | 0 | 0 | 0 | 0 | NE | NE | - | o o o o | Sub | - | - | - | - |
| 6 | CPE | 15,748 | 11,031 | 9,123 | 20,154 | 10,585 | 71 | 228 | 147 | 2F | I-1 | - | o x x o | Sub | G | G | 15x15 | G |
| 7 | CFA | 3,536 | 2,898 | 6,468 | 6,468 | 2,775 | 7 | 66 | 50 | 2F | I-2 | G/20 | o o o o | Sub | G | G | 10x20 | - |
| 8 | GB-1 | 46,404 | 41,217 | 12,687 | 53,904 | 34,739 | 247 | 5,068 | 1,163 | 8F | F-1 | R/10 | o o o o | Twn | G | G | 14x12 | * |
| 9 | GB-2 | 23,552 | 19,708 | 9,307 | 29,015 | 16,933 | 167 | 2,257 | 351 | 4F | F-2 | G/43 | o o o o | Twn | G | G | P | G |
| 10 | GAN | 1,000 | 952 | 1,471 | 2,423 | 746 | 31 | 144 | 31 | 1F | I-3 | - | o o o o | Sub | P | G | P | G |
| 11 | JAG | 1,004 | 107 | - | 107 | 46 | 28 | 0 | 33 | 1F | I-3 | - | o o o o | Sub | P | G | 15x15 | - |
| 12 | JT-1 | 4,496 | 4,050 | 2,985 | 7,035 | 3,691 | 43 | 209 | 107 | 2F | F-4 | - | o x x o | Twn | P | G | P | - |
| 13 | JT-2 | 21,840 | 10,137 | 4,954 | 15,091 | 9,538 | 91 | 289 | 219 | 4F | F-3 | G/72 | o o o o | Sub | G | G | 30x40 | G |
| 14 | KAL | 13,824 | 9,744 | 4,684 | 14,428 | 9,073 | 64 | 468 | 139 | 2F | F-1 | - | o o o o | Sub | G | G | 10x10 | G |
| 15 | KB | 26,408 | 23,227 | 8,080 | 31,307 | 21,333 | 120 | 1,382 | 392 | 2F | F-2 | R/12 | o o o o | Twn | G | G | P | G |
| 16 | KED | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 1F | I-3 | - | o o o o | Sub | P | G | 15x20 | - |
| 17 | KGD | 2,980 | 2,336 | 6,672 | 9,008 | 2,306 | 0 | 0 | 30 | 2F | I-1 | - | o o o o | Sub | G | G | 10x10 | - |
| 18 | KLD | 2,890 | 2,834 | 9,171 | 12,005 | 2,743 | 27 | 7 | 57 | 2F | I-1 | - | o o o o | Sub | G | G | P | - |
| 19 | KT-1 | 19,844 | 11,250 | 6,117 | 17,367 | 9,013 | 3 | 1,921 | 313 | 3F | F-2 | - | o o o o | Twn | G | G | P | - |
| 20 | KT-2 | 52,592 | 39,344 | 18,902 | 58,246 | 35,737 | 120 | 2,566 | 921 | 5F | F-1 | R/15 | o o o o | Twn | G | G | P | G |
| 21 | MER | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 1F | I-3 | - | o o o o | Sub | - | - | - | - |
| 22 | PAL | 13,056 | 9,872 | 15,172 | 25,044 | 9,257 | 58 | 310 | 247 | 2F | I-1 | G/72 | o o o o | Sub | G | G | 8x15 | G |
| 23 | PSM | 6,840 | 3,606 | 3,384 | 6,990 | 3,332 | 28 | 165 | 81 | 2F | I-2 | - | o x x o | Sub | G | G | 12x12 | - |
| 24 | PSR | 3,905 | 1,846 | 1,340 | 3,186 | 1,673 | 40 | 83 | 50 | 2F | I-1 | G/24 | o o o o | Sub | G | G | 15x15 | G |
| 25 | PEN | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 1F | I-3 | - | o o o o | Sub | P | G | P | - |
| 26 | PIT | 11,520 | 11,495 | 14,784 | 26,279 | 10,962 | 31 | 422 | 80 | 2F | I-2 | G/45 | o o o o | Sub | G | G | P | G |
| 27 | PMG | 16,288 | 14,499 | 5,572 | 20,071 | 13,546 | 101 | 644 | 208 | 2F | I-1 | G/43 | o o o o | Sub | G | G | P | G |
| 28 | SM-1 | 14,815 | 9,574 | 2,205 | 11,779 | 7,772 | 13 | 1,603 | 186 | 3F | F-2 | - | o x x o | Twn | G | G | P | G |
| 29 | SM-2 | 13,188 | 9,961 | 6,830 | 16,791 | 7,851 | 88 | 1,835 | 186 | 2F | I-1 | G/90 | o o o o | Twn | G | G | 20x20 | G |
| 30 | SLP | 14,000 | 13,146 | 9,836 | 22,982 | 12,255 | 53 | 507 | 331 | 1F | I-3 | G/72 | o o o o | Sub | G | G | 15x15 | G |
| 31 | TFR | 9,216 | 7,961 | 4,391 | 12,352 | 7,189 | 98 | 571 | 103 | 2F | I-4 | - | o x x o | Sub | P | G | P | G |
| 32 | TET | 13,056 | 10,908 | 4,406 | 15,314 | 10,335 | 81 | 291 | 201 | 2F | I-1 | - | o x x o | Sub | G | G | P | G |
| 33 | TEG | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 1F | I-3 | - | o o o o | Sub | P | G | 20x20 | - |
| TOTAL | | 398,718 | 301,093 | 191,431 | 492,524 | 270,726 | 1,853 | 22,211 | 6,303 | | | | | | | | | |
| AVERAGE | | 14,240 | 10,753 | 7,090 | 17,590 | 9,669 | 63 | 854 | 225 | | | | | | | | | |

Source: ① REKAPITULASI POTENSI SAMBUNGAN TELEPON, WITEL-IV JAKARTA July 1988
 ② DATA EXISTING WITEL-IV, POSISI MEI 1988

Source: Result of Field Survey, April-June, August-September 1988

Abbreviation

- Bld : Building
- F/I : Shape of Roof (F/I: Flat/Inclined)
- TWR/H : Tower/Height (m)
- CL:M/E/S/W : Conditions of Clearance of Visibility
- CIRCUM : Circumstance
- SPO : Space for Outdoor Equipment
- SPI : Space for Indoor Equipment
- SPT : Space for Tower
- POW : Condition of Power Supply Equipment

Abbreviation

- CAPT : Capacity of Switching Equipment
- WAITING : Number of Waiting Subscribers
- SUBT : Total number of Subscribers Terminated in Switching Center
- GENT : Total Number of General Subscribers Terminated in Switching Center
- PUBT : Total Number of Coin Phone Lines Terminated in Switching Center
- PBKT : Total Number of PBX Subscriber Lines Terminated in Switching Center
- OTHERS : Number of Other Type of Subscriber Lines Terminated in Switching Center

Table AT3-2 Situation of Switching Center (2/2)

| NO. | STO | Present Status | | | | Repelita-V | | | | CAPTF | REM | EXP89 | CAP89 | EXP94-1 | CAP94-1 | EXP94-2 | CAP94-2 |
|---------|------|----------------|--------|--------|---------|------------|---------|---------|---------|--------|--------|---------|--------|---------|---------|---------|---------|
| | | PEX.CR | ORG.CR | TER.CR | ORG+TER | ORG.CRS | TER.CRS | ORG+TER | ORG+TER | | | | | | | | |
| 1 | ANC | 0.44 | 0.044 | 0.034 | 0.078 | 0.040 | 0.034 | 0.074 | 8,448 | 2,145 | 1,548 | 9,996 | 0 | 9,996 | 10,000 | 19,996 | |
| 2 | CAW | 0.44 | 0.050 | 0.043 | 0.094 | 0.050 | 0.043 | 0.093 | 6,144 | 1,857 | 2,952 | 9,096 | 0 | 9,096 | 0 | 9,096 | |
| 3 | CFP | 0.50 | 0.056 | 0.042 | 0.098 | 0.060 | 0.051 | 0.111 | 24,188 | 11,162 | 1,004 | 25,192 | 0 | 25,192 | 20,000 | 45,192 | |
| 4 | CGK | 0.44 | 0.064 | 0.044 | 0.108 | 0.060 | 0.051 | 0.111 | 7,936 | 2,162 | 2,208 | 10,144 | 0 | 10,144 | 15,000 | 25,144 | |
| 5 | CIL | - | - | - | - | 0.040 | 0.034 | 0.074 | 0 | 0 | 1,000 | 1,000 | 0 | 1,000 | 3,000 | 4,000 | |
| 6 | CPE | 0.50 | 0.049 | 0.036 | 0.085 | 0.050 | 0.043 | 0.093 | 15,748 | 4,717 | -56 | 15,692 | 6,000 | 21,692 | 16,000 | 31,692 | |
| 7 | CRA | 0.44 | 0.044 | 0.034 | 0.072 | 0.030 | 0.026 | 0.056 | 3,536 | 638 | 1,464 | 5,000 | 3,000 | 8,000 | 3,000 | 8,000 | |
| 8 | GB-1 | 0.50 | 0.106 | 0.073 | 0.179 | 0.085 | 0.072 | 0.157 | 46,404 | 5,187 | -20 | 46,384 | 7,000 | 53,384 | 47,000 | 92,384 | |
| 9 | GB-2 | 0.50 | 0.089 | 0.059 | 0.148 | 0.085 | 0.072 | 0.157 | 23,552 | 3,844 | 928 | 24,480 | 10,000 | 34,480 | 30,000 | 54,480 | |
| 10 | GAN | 0.40 | 0.104 | 0.061 | 0.166 | 0.070 | 0.060 | 0.130 | 1,000 | 48 | 2,000 | 3,000 | 0 | 3,000 | 7,000 | 10,000 | |
| 11 | JAG | 0.40 | 0.061 | 0.036 | 0.097 | 0.030 | 0.026 | 0.056 | 1,004 | 897 | -4 | 1,000 | 2,000 | 3,000 | 2,000 | 3,000 | |
| 12 | JT-1 | 0.44 | 0.067 | 0.053 | 0.120 | 0.055 | 0.047 | 0.102 | 4,496 | 446 | 4 | 4,500 | 0 | 4,500 | 0 | 4,500 | |
| 13 | JT-2 | 0.50 | 0.058 | 0.046 | 0.103 | 0.055 | 0.047 | 0.102 | 21,840 | 11,703 | 352 | 22,192 | 0 | 22,192 | 20,000 | 42,192 | |
| 14 | KAL | 0.50 | 0.058 | 0.040 | 0.097 | 0.060 | 0.051 | 0.111 | 13,824 | 4,080 | -32 | 13,792 | 4,000 | 17,792 | 39,000 | 52,792 | |
| 15 | KB | 0.50 | 0.068 | 0.048 | 0.116 | 0.055 | 0.047 | 0.102 | 26,408 | 3,181 | 3,976 | 30,384 | 0 | 30,384 | 20,000 | 50,384 | |
| 16 | KED | - | - | - | - | 0.040 | 0.034 | 0.074 | 0 | 0 | 2,000 | 2,000 | 0 | 2,000 | 7,000 | 9,000 | |
| 17 | KGD | - | - | - | - | 0.060 | 0.051 | 0.111 | 2,980 | 644 | 20 | 3,000 | 0 | 3,000 | 7,000 | 10,000 | |
| 18 | KLD | 0.40 | 0.055 | 0.042 | 0.097 | 0.040 | 0.034 | 0.074 | 2,890 | 56 | 2,610 | 5,500 | 0 | 5,500 | 0 | 5,500 | |
| 19 | KT-1 | 0.50 | 0.131 | 0.090 | 0.221 | 0.090 | 0.077 | 0.167 | 19,844 | 8,594 | 156 | 20,000 | 9,000 | 29,000 | 9,000 | 29,000 | |
| 20 | KT-2 | 0.50 | 0.054 | 0.038 | 0.092 | 0.060 | 0.051 | 0.111 | 52,592 | 13,248 | 576 | 53,168 | 14,000 | 67,168 | 54,000 | 107,168 | |
| 21 | MER | - | - | - | - | 0.040 | 0.034 | 0.074 | 0 | 0 | 2,000 | 2,000 | 0 | 2,000 | 2,000 | 4,000 | |
| 22 | PAL | 0.50 | 0.053 | 0.035 | 0.088 | 0.060 | 0.051 | 0.111 | 13,056 | 3,184 | 4,020 | 17,076 | 7,000 | 24,076 | 17,000 | 34,076 | |
| 23 | PSM | 0.44 | 0.090 | 0.053 | 0.143 | 0.065 | 0.055 | 0.120 | 6,840 | 3,234 | 4,160 | 11,000 | 0 | 11,000 | 0 | 11,000 | |
| 24 | PSR | 0.44 | 0.058 | 0.042 | 0.100 | 0.070 | 0.060 | 0.130 | 3,905 | 2,059 | 1,095 | 5,000 | 0 | 5,000 | 8,000 | 13,000 | |
| 25 | PEN | - | - | - | - | 0.060 | 0.051 | 0.111 | 0 | 0 | 1,000 | 1,000 | 0 | 1,000 | 4,000 | 5,000 | |
| 26 | PLT | 0.50 | 0.050 | 0.037 | 0.088 | 0.060 | 0.051 | 0.111 | 11,520 | 25 | -1,352 | 10,168 | 10,000 | 20,168 | 23,000 | 33,168 | |
| 27 | RMG | 0.50 | 0.055 | 0.040 | 0.095 | 0.060 | 0.051 | 0.111 | 16,288 | 1,789 | 3,904 | 20,192 | 0 | 20,192 | 20,000 | 40,192 | |
| 28 | SM-1 | 0.50 | 0.110 | 0.077 | 0.187 | 0.085 | 0.072 | 0.157 | 14,815 | 5,241 | 185 | 15,000 | 7,000 | 22,000 | 27,000 | 42,000 | |
| 29 | SM-2 | 0.50 | 0.114 | 0.070 | 0.184 | 0.070 | 0.060 | 0.130 | 13,188 | 3,227 | 6,004 | 19,192 | 0 | 19,192 | 20,000 | 39,192 | |
| 30 | SLP | 0.50 | 0.072 | 0.048 | 0.120 | 0.070 | 0.060 | 0.130 | 14,000 | 854 | 9,500 | 23,500 | 0 | 23,500 | 5,000 | 28,500 | |
| 31 | TBR | 0.44 | 0.060 | 0.044 | 0.104 | 0.060 | 0.051 | 0.111 | 9,216 | 1,255 | 5,028 | 14,244 | 0 | 14,244 | 10,000 | 24,244 | |
| 32 | TBT | 0.50 | 0.042 | 0.032 | 0.074 | 0.055 | 0.047 | 0.102 | 13,056 | 2,148 | 5,036 | 18,092 | 0 | 18,092 | 15,000 | 33,092 | |
| 33 | TEG | - | - | - | - | 0.040 | 0.034 | 0.074 | 0 | 0 | 1,000 | 1,000 | 0 | 1,000 | 0 | 1,000 | |
| Total | | - | - | - | - | - | - | - | 398,718 | 97,625 | 64,266 | 462,984 | 79,000 | 541,984 | 460,000 | 922,984 | |
| AVERAGE | | 0.49 | 0.069 | 0.048 | 0.117 | 0.058 | 0.049 | 0.107 | 14,240 | 3,487 | 14,030 | 16,424 | | | | 27,969 | |

Source: REPELITA-V INVESTMENT PROGRAM (FIRST DRAFT) ANNEX February 1988 PMC

Abbreviation

- CAPTF : Capacity of Switching Equipment at Present
- REMP : Remainder of Switching Equipment at Present
- EXP89 : Expansion from 1988 to 1989
- CAP89 : Capacity of Switching Equipment at End of Pelita-IV (1989)
- EXP94-1 : Expansion from 1989 to 1994 in First Priority Case
- CAP94-1 : Capacity of Switching Equipment at End of Repelita-V (1994) in First Priority Case
- EXP94-2 : Expansion from 1989 to 1994 in Second Priority Case
- CAP94-2 : Capacity of Switching Equipment at End of Repelita-V (1994) in Second Priority Case

- Source: ① Hasil Pengukuran Trafik TEDI SENTRAL SPC ANALOG WITEL-IV JAKARTA, TRIWURAN I, II 1988, III, IV 1987
- ② Hasil Pengukuran Trafik SENTRAL TELEPON EWSM JAKARTA January, April, July 1988, October, August 1987
- ③ Data Trafik Originating dan Terminating Sentral Lokal TRIWURAN I - IV 1987

Abbreviation

- ORG : Originating Calling Rate
- TER : Terminating Calling Rate
- ORG+TER : Originating and Terminating Calling Rate
- ORG5 : Originating Calling Rate in case of Repelita-V
- TER5 : Terminating Calling Rate in case of Repelita-V

Related Data for Calling Rate

The situation of switching equipment in Jakarta is shown in Table AT3-3.

Table AT3-3 Share of PRX Switching Equipment in Jakarta

| Type | Unit | Capacity | Subscriber Stations |
|-------|-------------|------------------|---------------------|
| PRX | 30 (53.6%) | 246,762 (61.8%) | 199,645 (66.3%) |
| EWSD | 16 (28.6%) | 95,946 (24.1%) | 48,130 (16.0%) |
| EMD | 9 (16.1%) | 55,500 (13.9%) | 52,366 (17.4%) |
| XB | 1 (1.7%) | 1,000 (0.2%) | 952 (0.3%) |
| Total | 56 (100%) | 398,717 (100%) | 301,093 (100%) |

The conditions of the data for calculation of CR in Jakarta is shown in Table AT3-4.

Table AT3-4 Conditions of Data on CR in PBX Subscriber Lines

| Type of Exchange | Conditions | |
|------------------|--|---|
| | Contents | Period |
| PRX | Measured Carried Traffic Number of Line Units | Every Four (4) Months Through One (1) Year |
| EWSD | Measured Carried Traffic Number of Line Units (Except Remote Type) | Only One (1) Month Through One (1) Year |
| EMD | Not Existent | ---- |
| XB | Not Existent | ---- |

"Strategic Development Plan" local traffic per subscriber is shown in Table AT3-5.

Table AT3-5 Local Traffic per Subscriber Station

| Category of Subscriber | Traffic per Subscriber Station Measured in Indonesia in Multi Exchange Area (Originating Calling Rate) |
|------------------------|--|
| Residential | 0.05 |
| Business | 0.08 * |
| PBX | - |
| Pay Phone | - |
| Average | 0.06 |

Unit: erlang/line unit

* : Average of business area in Jakarta is 0.10.

Attachment - 4 : Rainfall Data in Jakarta

Rainfall Data for 7 Months through 1986 obtained from
"DEPARTEME PERHUBUNGAN" in Jakarta. 289

DEPARTEMEN PERHUBUNGAN
BADAN METEOROLOGI DAN GEOFISIKA

Form: B

Nama Stasiun: Harambee 96747

JL' ARIEF RAKHMAN HAKIM No. 3 JAKARTA

Kabupaten: _____

Ketinggian: _____ meter

No. Sta. hujan: Obs: _____

PENAKAR HUJAN OTOMATIS

No. Sta. hujan: Otm: _____

Laporan Bulan: Juni

Tahun: 1986

Nama Pengamat: S. Sutopo
Type penakar: _____

| No. Sta. hujan | JUMLAH HUJAN TIAP JAM KALI FAKTOR KOREKSI (FK) | | | | | | | | | | | | | | | | | | | | | | | | Jumlah 24 jam |
|----------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | 49.1 |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | 34.2 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | 0.8 |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | 23.7 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | 10.2 |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | 5.0 |
| 20 | M | A | C | E | T | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 12.2 |
| 21 | 2.3 | 5.5 | 0.8 | 0.1 | 0.2 | 1.9 | 4.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 10.5 | |
| 22 | 0.2 | 0.5 | 0.1 | 0.2 | 1.9 | 4.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 26.7 | |
| 23 | 0.2 | 0.5 | 0.1 | 0.2 | 1.9 | 4.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | 0.7 | 3.3 | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | 3.7 |
| 25 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 26 | 15.6 | 0.2 | 2.2 | 0.2 | 0.2 | 5.9 | 6.7 | 0.5 | 2.2 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 62.8 | |
| 27 | 0.7 | 0.7 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 | 0.3 | 0.1 | 0.3 | 0.1 | 0.3 | 0.1 | 0.3 | 0.1 | 0.3 | 0.1 | 0.3 | 0.1 | 0.3 | 7.2 | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 29 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | O |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | 16.1 |
| Max | | | | | | | | | | | | | | | | | | | | | | | | | |

DEPARTEMEN PERHUBUNGAN
BADAN METEOROLOGI DAN GEOFISIKA

Form: B

Nama Stasiun : Halim Perdanakusuma

JL' ARIEF RAKHMAN HAKIM No.3 JAKARTA

Kabupaten :

Ketinggian : _____ meter

No. Sta. hujan. Obs :

PENAKAR HUJAN OTOMATIS

No. Sta. hujan. Otm :

Laporan Bulan : Februari

Nama Pengamat : Swingy

Type penakar :

Tahun : 1986

| No. Sta. | JUNJIAN HUJAN TIAP JAM KALI FAKTOR KOREKSI (FK) | | | | | | | | | | | | | | | | | | | | | | | | Jumlah 24 jam |
|----------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|
| | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | 12,3 |
| 2 | | | | | | | | | | 11,9 | 10,8 | 9,5 | 4,3 | 4,6 | 0,9 | | | | | | | | | | 36,7 |
| 3 | | | | | | | | | 9,9 | 0,1 | | | | | | | | | | | | | | 10,0 | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 5 | | | | | 0,6 | | | | | | | 7,4 | 2,2 | 0,3 | 0,1 | | | | | | | | | 19,7 | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 8 | | 0,9 | 6,0 | | | | | | | | | | | | | | | | | 0,1 | | | | 7,0 | |
| 9 | | | | | 2,7 | | | | | | | | | 0,5 | | | | | | | | | | 3,5 | |
| 10 | 0,9 | 1,1 | 0,3 | | | | | | | | | | | 2,2 | 0,8 | | | | | 1,7 | | 23,4 | 7,1 | 65,4 | |
| 11 | 1,4 | 1,2 | 0,1 | | | | | | | | | | | | | | | | | 4,4 | | 1,8 | | 8,9 | |
| 12 | | | | | | | | | | | 1,8 | | | | | | | | | | | | | 1,8 | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 14 | | | | | | | | | | 3,4 | | | | | | | | | | | | | | 2,4 | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | 3,8 | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | x | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 23 | | | | | | | | | | | | | | | | | | | | 0,1 | | | | 2,2 | |
| 24 | | | | | | | | | | | | 0,3 | 0,3 | 0,3 | 0,3 | 0,3 | 0,3 | 0,2 | 3,9 | 12,4 | 5,2 | 0,9 | 23,4 | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | 28,5 | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Max | | | | | | | | | | | | | | | | | | | | | | | | 0 | |

DEPARTEMEN PERHUBUNGAN
BADAN METEOROLOGI DAN GEOFISIKA

Form: B

Nama Stasiun : thotun (96247)

JL' ARIEF RAKHMAN HAKIM No. 3 JAKARTA

Kabupaten : _____ meter

Ketinggian : _____ meter

No. Sta. hujan, Obs : _____

Nama Pengamat : Surya

No. Sta. hujan, Otm : _____

Laporan Bulan : Mei

Type penakar : _____

Tahun : 1986

| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Max | JUMLAH HUJAN TIAP JAM KALI FAKTOR KOREKSI (FK) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Jumlah 24 jam | | | |
|--|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|------------------|--|------|------|
| | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 6 | | | | | | | | | | 29,4 | 0,1 | | | | | | | | | | | | | | | | | | | | | | | 28,5 | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10,4 |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 14,4 |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5,2 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 14 | | | | | | | | | | 5,5 | 21,4 | 2,3 | 1,8 | | | | | | | | | | | | | | | | | | | | | 21,0 | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11,7 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0,4 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1,5 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 23,1 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 21,0 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |

BADAN METEOROLOGI DAN GEOFISIKA

JL' ARIEF RAKHMAN HAKIM No. 3 JAKARTA

Nama Stasiun : Halim 067471

Kabupaten : _____

Ketinggian : _____ meter

No. Sta. hujan. Obs : _____

No. Sta. hujan. Otm : _____

PENAKAR HUJAN OTOMATIS

Laporan Bulan : Juni

Tahun : 1986

Nama Pengamat : Surip

Type punakar : _____

| No. Sta. | JUMLAH HUJAN TIAP JAM KALI FAKTOR KOREKSI (FK) | | | | | | | | | | | | | | | | | | | | | | | | Jumlah 24 jam |
|----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|
| | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | |
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.5 | 7.5 | - | - | - | - | - | 9.0 |
| 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 11 | - | - | - | - | - | - | - | - | - | 0.2 | 0.2 | 1.0 | - | 1.5 | - | - | - | - | - | - | - | - | - | - | 2.2 |
| 12 | 0.9 | 0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2.9 |
| 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.6 |
| 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 15 | - | - | - | - | - | - | - | - | - | 0.9 | 2.3 | 2.3 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 16 | - | - | - | - | - | - | - | - | 10.2 | 1.8 | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.6 |
| 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12.3 |
| 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 23 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.6 | 2.3 | 4.1 | 3.2 | 0.1 | - | - | - | - | - | 10.4 |
| 25 | - | - | - | - | - | - | - | - | - | - | - | - | 0.9 | 9.9 | 9.2 | - | - | - | - | - | - | - | - | - | 30.0 |
| 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 28 | - | - | - | - | - | 0.1 | 1.1 | - | - | - | - | - | 5.2 | 1.0 | - | 0.1 | - | - | - | - | - | - | - | - | 7.5 |
| 29 | - | - | - | - | - | - | - | - | - | M | A | P | - | - | - | - | - | - | - | - | - | - | - | - | 0.4 |
| 30 | - | - | - | - | - | - | - | - | 3.8 | 1.6 | 0.2 | 1.7 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | 6.5 |
| 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Max | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Jum. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

KEMENTERIAN PERTAMBANGAN
BADAN METEOROLOGI DAN GEOFISIKA

Form: B

Nama Stasiun: Halin (96747)

JL. ARIEF RAHMAN HAKIM No. 3 JAKARTA

Kabupaten : _____
Ketinggian : _____ meter.

No. sta. hujan. Obs : _____

No. sta. hujan. Oim : _____

PENAKAR HUJAN OTOMATIS

Laporan Bulan : September
Tahun : 1986

Nama pengamat: Surya

Type penakar : _____

| Tinggi | JUMLAH HUJAN TIAP JAM KALI FAKTOR KOREKSI (FK) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Jumlah 24 Jam | | | |
|------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|---|---|---|---|------------------|---|------|-------|
| | 07-08 | 08-09 | 09-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | 00-01 | 01-02 | 02-03 | 03-04 | 04-05 | 05-06 | 06-07 | | | | | | | | | | | |
| 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 |
| 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,8 | |
| 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4,2 | |
| 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3,5 | |
| 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9,0 | |
| 9 | 5,8 | 2,1 | 0,4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8,3 | |
| 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,6 | |
| 11 | 3,4 | 0,1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,5 | |
| 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2,4 | |
| 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13,5 |
| 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13,3 |
| 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0,6 | |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,4 | |
| 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 23 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 27,0 | |
| 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,4 | |
| 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7,0 | |
| 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | |
| 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mo. Jumlah | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 153,5 |

Attachment - 5 : List of Subject Subscriber Stations

Legend

. Application

o : P-MP System

• : P-P System

. Classification

Occupation

G : Government

O : Office

B : Bank

S : Shop / Store

H : Hotel / Apartment

R : Hospital

F : Factory

A : Army

X : Others

Cost

Important

Difficulty

Poor Quality

. Visibility

o : Visible

Δ : Invisible at present

Tower : Under construction

or plan

x : Invisible

Tower : no construction plan

Factor of
Selection

. Terminal Equipment

PBX o : use, x : not use

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|------|---|-----|---|----|-----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| 1 | KY-2 | A | 1.3 | 0 | | | | | | 203 | 216 | 229 | 241 | 253 | 255 | 279 | 76 | 0 | | | | | | FORECAST |
| 2 | KY-2 | A | 0.7 | R | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 37 | 39 | 39 | 39 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 3 | KY-2 | A | 1.0 | 0 | 5 | 22 | 24 | 25 | 26 | 27 | 27 | 29 | 29 | 26 | 27 | 29 | 60 | 38 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 4 | KY-2 | B | 1.8 | 0 | 9 | 150 | 1,500 | 3,400 | 40 | 9 | 78 | 81 | 86 | 13 | 14 | 14 | 15 | 10 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 5 | KY-2 | B | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 6 | KY-2 | B | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 7 | KY-2 | B | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 8 | KY-2 | B | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 9 | KY-2 | B | 1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 10 | KY-2 | B | 0.3 | B | 16 | 74 | 8,275 | 10,000 | 400 | 48 | 52 | 54 | 57 | 60 | 63 | 67 | 70 | 73 | 77 | 77 | 77 | 77 | 77 | FORECAST |
| 11 | KY-2 | C | 0.7 | B | 47 | 250 | 2,368 | 26 | 27 | 29 | 31 | 32 | 34 | 35 | 38 | 41 | 44 | 47 | 51 | 53 | 59 | 61 | 64 | FORECAST |
| 12 | KY-2 | C | 0.6 | 0 | 5 | 5 | 5,250 | 3,400 | 40 | 47 | 51 | 53 | 56 | 59 | 61 | 64 | 67 | 70 | 73 | 77 | 77 | 77 | 77 | FORECAST |
| 13 | KY-2 | C | 0.9 | 0 | 5 | 5 | 2,368 | 26 | 27 | 29 | 31 | 32 | 34 | 35 | 38 | 41 | 44 | 47 | 51 | 53 | 59 | 61 | 64 | FORECAST |
| 14 | KY-2 | C | 0.4 | S | 3 | 3 | 1,000 | 200 | 16 | 20 | 21 | 22 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | FORECAST |
| 15 | KY-2 | C | 1.0 | X | 1 | 1 | 4,400 | 250 | 12 | 13 | 14 | 14 | 14 | 15 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | FORECAST |
| 16 | KY-2 | C | 0.9 | X | 4 | 4 | 32,000 | 92 | 200 | 215 | 226 | 237 | 249 | 262 | 275 | 288 | 296 | 296 | 296 | 296 | 296 | 296 | 296 | FORECAST |
| 17 | KY-2 | C | 0.6 | 0 | 11 | 11 | 10,800 | 7 | 18 | 19 | 20 | 21 | 22 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | FORECAST |
| 18 | KY-2 | C | 0.2 | 0 | 6 | 6 | 5,000 | 35 | 9 | 10 | 10 | 11 | 11 | 11 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | FORECAST |
| 19 | KY-2 | C | 0.9 | 0 | 5 | 5 | 10,000 | 40 | 10 | 11 | 11 | 12 | 12 | 12 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | FORECAST |
| 20 | KY-2 | C | 1.2 | H | 5 | 5 | 62,000 | 40 | 508 | 548 | 576 | 605 | 635 | 667 | 700 | 732 | 764 | 796 | 828 | 860 | 892 | 924 | 956 | FORECAST |
| 21 | KY-2 | D | 0.9 | S | 8 | 8 | 4,500 | 0 | 150 | 161 | 169 | 178 | 187 | 196 | 206 | 215 | 224 | 233 | 242 | 251 | 260 | 269 | 278 | FORECAST |
| 22 | KY-2 | D | 0.8 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 23 | KY-2 | D | 0.7 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 24 | KY-2 | D | 0.5 | S | 21 | 21 | 16,861 | 467 | 100 | 118 | 123 | 130 | 136 | 143 | 150 | 157 | 164 | 171 | 178 | 185 | 192 | 199 | 206 | FORECAST |
| 25 | KY-2 | D | 0.9 | X | 6 | 6 | 3,582 | 350 | 42 | 45 | 47 | 50 | 52 | 55 | 58 | 61 | 64 | 67 | 70 | 73 | 76 | 79 | 82 | FORECAST |
| 26 | KY-2 | D | 1.1 | E | 6 | 6 | 4,000 | 300 | 20 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | FORECAST |
| 27 | KY-2 | D | 1.3 | G | 7 | 7 | 5,080 | 0 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | FORECAST |
| 28 | KY-2 | D | 0.7 | 0 | 5 | 5 | 6,300 | 0 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | FORECAST |
| 29 | KY-2 | D | 1.0 | 0 | 7 | 7 | 0 | 0 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | FORECAST |
| 30 | KY-2 | D | 1.0 | 0 | 7 | 7 | 0 | 0 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | FORECAST |
| 31 | KY-2 | D | 1.0 | 0 | 7 | 7 | 0 | 0 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | FORECAST |
| 32 | KY-2 | D | 1.0 | 0 | 7 | 7 | 0 | 0 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | FORECAST |
| 33 | KY-2 | D | 1.0 | 0 | 7 | 7 | 0 | 0 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | FORECAST |
| 1 | PLM | A | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 2 | PLM | A | 2.9 | G | 4 | 4 | 8,320 | 0 | 90 | 97 | 102 | 107 | 112 | 118 | 124 | 130 | 136 | 142 | 148 | 154 | 160 | 166 | 172 | FORECAST |
| 3 | PLM | A | 2.9 | G | 4 | 4 | 5,100 | 0 | 67 | 72 | 76 | 79 | 83 | 88 | 93 | 98 | 103 | 108 | 113 | 118 | 123 | 128 | 133 | FORECAST |
| 4 | PLM | A | 2.4 | 0 | 5 | 5 | 5,356 | 0 | 5 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | FORECAST |
| 5 | PLM | A | 2.5 | 0 | 5 | 5 | 10,000 | 0 | 51 | 55 | 58 | 60 | 64 | 67 | 71 | 74 | 77 | 81 | 84 | 88 | 91 | 95 | 99 | FORECAST |
| 6 | PLM | A | 2.6 | G | 2 | 2 | 3,200 | 0 | 2 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | FORECAST |
| 7 | PLM | A | 2.6 | G | 2 | 2 | 13,000 | 0 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | FORECAST |
| 8 | PLM | A | 3.0 | R | 5 | 5 | 21,500 | 0 | 56 | 60 | 63 | 66 | 70 | 73 | 77 | 80 | 84 | 87 | 91 | 94 | 98 | 101 | 105 | FORECAST |
| 9 | PLM | A | 1.5 | 0 | 7 | 7 | 10,672 | 0 | 51 | 55 | 58 | 60 | 64 | 67 | 71 | 74 | 77 | 81 | 84 | 88 | 91 | 95 | 99 | FORECAST |
| 10 | PLM | A | 2.6 | H | 12 | 12 | 5,712 | 0 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | FORECAST |
| 11 | PLM | A | 2.3 | G | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 12 | PLM | A | 2.3 | G | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FORECAST |
| 13 | PLM | A | 2.5 | F | 3 | 3 | 2,160 | 0 | 33 | 36 | 37 | 39 | 41 | 43 | 46 | 48 | 51 | 54 | 57 | 60 | 63 | 66 | 69 | FORECAST |
| 14 | PLM | A | 2.5 | G | 2 | 2 | 6,000 | 0 | 28 | 30 | 32 | 33 | 35 | 37 | 39 | 41 | 43 | 46 | 48 | 51 | 54 | 57 | 60 | FORECAST |
| 15 | PLM | A | 2.9 | G | 4 | 4 | 4,800 | 0 | 25 | 27 | 28 | 30 | 31 | 33 | 35 | 37 | 39 | 41 | 43 | 46 | 48 | 51 | 54 | FORECAST |
| 16 | PLM | A | 3.1 | G | 5 | 5 | 6,277 | 0 | 18 | 19 | 20 | 21 | 22 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 33 | 35 | FORECAST |
| 17 | PLM | A | 2.4 | 0 | 5 | 5 | 7,200 | 0 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | FORECAST |
| 18 | PLM | A | 2.4 | 0 | 5 | 5 | 7,200 | 0 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | FORECAST |

| | | | | | | | | | | | | | | | | | |
|----|---|------|---|-----|---|----|---------|-----|-----|-----|-----|-----|-----|-----|-----|---|--------------------|
| 1 | • | SM-1 | A | 0.7 | 0 | 18 | 20,502 | 300 | 627 | 658 | 691 | 726 | 762 | 800 | 500 | 0 | Improve |
| 2 | • | SM-1 | A | 0.8 | 0 | 14 | 12,800 | 300 | 392 | 411 | 432 | 454 | 476 | 500 | 200 | 0 | Improve (+1set) |
| 3 | | SM-1 | A | 0.5 | 0 | 17 | | 0 | 266 | 279 | 293 | 308 | 323 | 340 | 340 | 0 | UNDER CONSTRUCTION |
| 4 | | SM-1 | A | 1.3 | B | 32 | 35,200 | 0 | 234 | 246 | 259 | 272 | 285 | 300 | 300 | 0 | UNDER CONSTRUCTION |
| 5 | | SM-1 | A | 0.5 | H | | | 0 | 39 | 41 | 43 | 45 | 47 | 50 | 50 | 0 | UNDER CONSTRUCTION |
| 6 | | SM-1 | A | 0.5 | H | | | 0 | 39 | 41 | 43 | 45 | 47 | 50 | 50 | 0 | UNDER CONSTRUCTION |
| 7 | | SM-1 | A | 0.5 | H | | | 0 | 39 | 41 | 43 | 45 | 47 | 50 | 50 | 0 | UNDER CONSTRUCTION |
| 8 | | SM-1 | A | 0.6 | H | 18 | 36,692 | 101 | 109 | 114 | 120 | 126 | 132 | 139 | 38 | 0 | UNDER CONSTRUCTION |
| 9 | | SM-1 | A | 0.8 | S | 7 | 3,750 | 20 | 24 | 25 | 26 | 27 | 29 | 30 | 10 | 0 | |
| 10 | | SM-1 | A | 1.0 | O | 6 | | 24 | 26 | 27 | 28 | 30 | 31 | 33 | 9 | x | |
| 11 | • | SM-1 | A | 2.1 | X | 32 | 103,000 | 498 | 536 | 563 | 591 | 620 | 651 | 684 | 186 | 0 | Improve (+1set) |
| 12 | • | SM-1 | C | 0.9 | H | 16 | | 100 | 157 | 165 | 173 | 181 | 190 | 200 | 100 | 0 | Improve (+1set) |
| 13 | • | SM-1 | C | 0.2 | O | 10 | 8,000 | 200 | 235 | 247 | 259 | 272 | 286 | 300 | 100 | 0 | Improve (+1set) |
| 14 | • | SM-1 | C | 1.0 | H | 30 | | 100 | 157 | 165 | 173 | 181 | 190 | 200 | 100 | 1 | Improve (+1set) |
| 15 | • | SM-1 | C | 1.9 | H | 10 | 11,520 | 13 | 14 | 15 | 15 | 16 | 17 | 73 | 60 | 0 | Improve |
| 16 | • | SM-1 | C | 0.4 | B | 21 | 21,000 | 140 | 151 | 158 | 166 | 174 | 183 | 193 | 53 | 0 | Improve (+1set) |
| 17 | | SM-1 | C | 0.8 | B | | 17,600 | 0 | 155 | 165 | 175 | 185 | 195 | 200 | 200 | 0 | FINISH 1988-5 |
| 18 | | SM-1 | C | 0.8 | B | 16 | | 0 | 92 | 97 | 101 | 107 | 112 | 118 | 118 | 0 | FORECAST |
| 19 | | SM-1 | C | 1.1 | H | 30 | | 0 | 78 | 82 | 86 | 90 | 95 | 100 | 100 | 0 | FORECAST |
| 20 | | SM-1 | C | 1.1 | H | | | 0 | 52 | 54 | 57 | 60 | 63 | 66 | 66 | 0 | UNDER CONSTRUCTION |
| 21 | | SM-1 | C | 0.1 | O | 17 | 11,560 | 125 | 134 | 141 | 148 | 156 | 162 | 172 | 47 | x | |
| 22 | | SM-1 | C | 1.9 | G | 6 | 7,200 | 26 | 28 | 29 | 31 | 32 | 34 | 36 | 10 | 0 | |
| 23 | | SM-1 | C | 1.9 | G | 20 | 72,000 | 22 | 24 | 25 | 26 | 27 | 29 | 31 | 9 | 0 | |
| 24 | | SM-1 | C | 0.5 | X | 13 | 9,200 | 9 | 13 | 13 | 14 | 15 | 15 | 16 | 7 | 0 | |
| 25 | | SM-1 | C | 0.8 | H | 7 | 2,744 | 5 | 5 | 6 | 6 | 6 | 7 | 9 | 4 | 0 | |
| 26 | • | SM-1 | D | 1.8 | G | 12 | | 65 | 70 | 73 | 77 | 81 | 85 | 90 | 25 | 0 | MANY BUILDINGS |
| 27 | • | SM-1 | D | 0.4 | S | 2 | 10,926 | 50 | 55 | 58 | 60 | 63 | 67 | 70 | 20 | x | |
| 28 | • | SM-1 | D | 1.7 | G | 11 | 22,000 | 43 | 46 | 49 | 51 | 54 | 56 | 60 | 17 | 0 | |
| 29 | • | SM-1 | D | 2.1 | G | 11 | 9,610 | 33 | 36 | 37 | 39 | 41 | 43 | 46 | 13 | 0 | |
| 30 | • | SM-1 | D | 2.2 | H | 12 | 14,320 | 6 | 13 | 13 | 14 | 15 | 15 | 16 | 10 | 0 | |
| 31 | • | SM-1 | D | 1.9 | G | 16 | | 236 | 342 | 359 | 377 | 395 | 415 | 436 | 200 | 0 | Improve |
| 32 | | SM-1 | D | 1.9 | G | 10 | | 131 | 141 | 148 | 155 | 163 | 171 | 181 | 90 | 0 | MANY BUILDINGS |
| 33 | | SM-1 | D | 0.0 | O | 24 | 24,000 | 410 | 441 | 463 | 486 | 511 | 536 | 564 | 154 | 0 | SM-1 Base Station |
| 34 | | SM-1 | | | | | | | | | | | | | | 0 | |

