

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station Indramayu (Coast Station No. 85)

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|-------|-----------|-----|----|
| SUMMARY OF COAST STATION | SITE | INDRAMAYU | | |
| | CLASS | 4th-B | NO. | 85 |

| 1. LOCATION | | | | | |
|-------------|------------------------------------|-------------|-----|----------------|-----------------|
| Station | Address | Tel. | Fax | Longitude | Latitude |
| TX/RX | Jl. Pabean Udik No. 223, Indramayu | 0234-272326 | | 108° 04' 40" E | 06° 19' 08.2" S |

| 2. GENERAL CONDITIONS | | | | | |
|---|---|---|---|------------|--|
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population | |
| By Car to Indramayu [Taking time: 4:00 hr.] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | | |
| | <input checked="" type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | | |
| | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | | |
| | | <input type="checkbox"/> None | | | |

| 3. CONDITIONS OF STATION | Refer to attached drawing |
|--------------------------|---------------------------|
|--------------------------|---------------------------|

| 3.1 Site Conditions | | | | |
|--|--|------------------------------------|---|---|
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system |
| <input checked="" type="checkbox"/> Flat | <input checked="" type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes No |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> <input type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input checked="" type="checkbox"/> <input type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input checked="" type="checkbox"/> <input type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input checked="" type="checkbox"/> <input type="checkbox"/> Lightning system |
| Altitude | 54.60 M | | Telephone Lines | <input checked="" type="checkbox"/> <input type="checkbox"/> Feeder Cable Way |
| Land area | 1,106 m ² | | <input checked="" type="checkbox"/> 1 Lines | <input checked="" type="checkbox"/> <input type="checkbox"/> City water |

| 3.2 Building Conditions | | 3.3 Power Source | | | |
|-----------------------------|-----------|-------------------------------|----------|--|---------|
| Constructions | | PLN Source | E/G | Existing Power Conditions | |
| Num of story | One | Voltage 220 V | V | Good Bad | |
| Structure | Concrete | Phase 1 | | <input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System | |
| Type of roof | Roof Tile | Wire 2 | | <input type="checkbox"/> <input type="checkbox"/> Operations of E/G | |
| Type of ceiling | Triplex | kVA 1,3 | | <input type="checkbox"/> <input type="checkbox"/> Operations of AVR | |
| Type of wall | Mortar | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | Painting | Fluctuations | V ± % | Day tank | Liter |
| Flooring | Ceramic | Availability of power per day | 24 Hours | Main tank | k Liter |
| Room Area (m ²) | | Power interruption /month | 2 Times | E/G Stand-by System | |
| Operation room | 8.5 | Total interpt. hours /month | 10 Hours | <input type="checkbox"/> Single System | |
| E / G room | | Max. interpt. hours at once | Hours | <input type="checkbox"/> Dual System | |
| Remark | | | | | |

| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
|---|-------------------------------------|-------------------------------------|--|----------------------------|-------|----------|--------|---------|
| Actions taken in equipment failure | | | | TX/RX | | | | |
| Restoration flow | | | | Chief | | | | |
| Examples of major failure | | | | Operator (skilled) 1 () () | | | | |
| Sufficiency of spares | | | | Technician (skilled) () () | | | | |
| Records of damages | | Environmental Conditions | | Administrator | | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> External noises | Total 1 | | | | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> Air pollution | | | | | |
| <input type="checkbox"/> Other calamity | | | | | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |

| | | | | |
|---------------------------------|--------------|------------------|------------|-----------|
| SUMMARY OF COAST STATION | SITE | INDRAMAYU | | |
| | CLASS | 4th-B | NO. | 85 |

| 6. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
|--|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

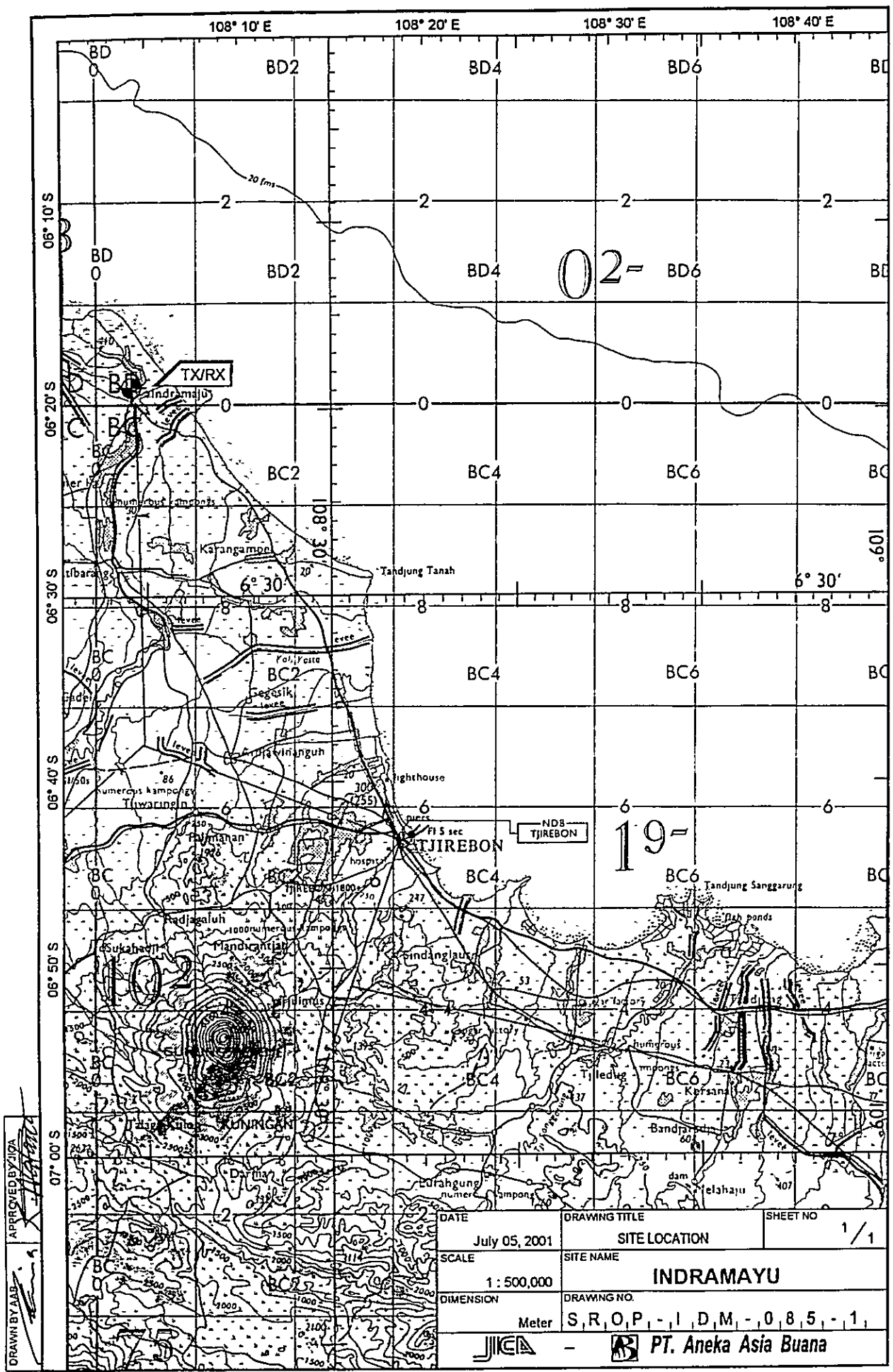
| 7. COMMENTS | |
|--------------------|--------------------------|
| Suggestion | |
| Remarks | Operated by Kanpel Staff |

INVENTORY

Site Name: Indramayu

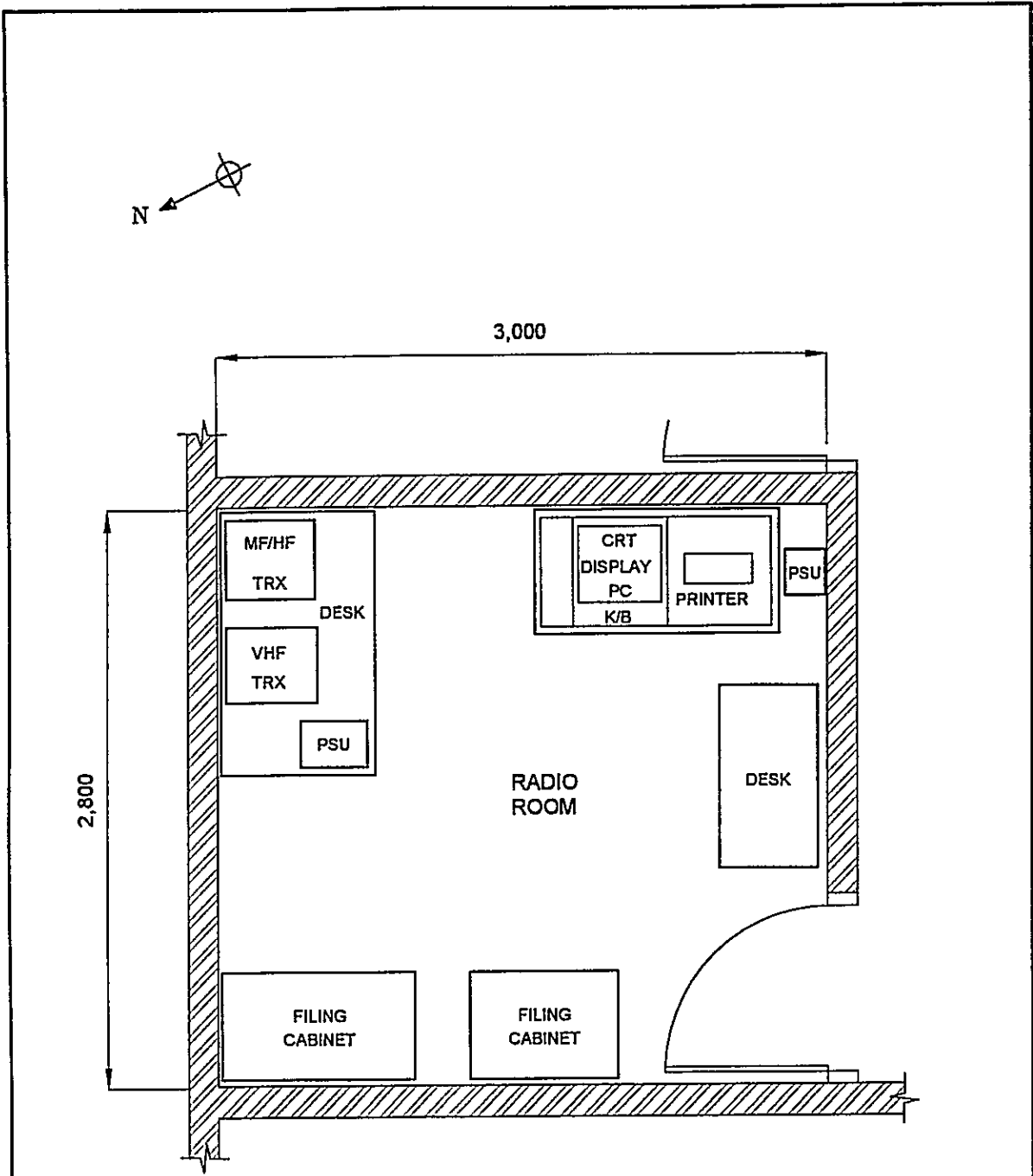
IDM-085- (1 / 1)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|---|----------|-----------|--------------|------|-----------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | 120110180094 | Transmitter MF/HF Transceiver | | 3521216 | ICOM | | | | Good |
| 1-2 | 120110180091 | VHF System VHF Marine Transceiver | IC-M120 | 01615 | ICOM | | | | Good |
| 2 | | Tower & Antenna System | | | | | | | |
| 2-1 | | Tower & Mast 1.5mH Antenna Pole | Local | | | | | | Good |
| 2-2 | | Antenna Selector Automatic Antenna Tuner | AT-120 | | ICOM | | | | Good |
| 3 | | Power Supply Equipment | | | | | | | |
| 3-1 | | UPS & AVR Power Supply | MG-1025A | | Merusa | | | | Good |



DRAWN BY AAB
 APPROVED BY NDA

| | | |
|---------------|--|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 05, 2001 | SITE LOCATION | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 500,000 | INDRAMAYU | |
| DIMENSION | DRAWING NO. | |
| Meter | S, R, O, P, - I, D, M, - 0, 8, 5, - 1, | |
| - | | |



DRAWN BY AAB
 APPROVED BY JICA

LEGEND

- CRT : CATHOY RAY TUBE
- HF : HIGH FREQUENCY
- PC : PERSONAL COMPUTER
- PSU : POWER SUPPLY UNIT
- MF : MEDIUM FREQUENCY
- TRX : TRANSCIVER (ING)
- VHF : VERY HIGH FREQUENCY

| | | |
|--|--|----------|
| DATE | DRAWING TITLE | SHEET NO |
| Sept 10, 2001 | EQUIPMENT FLOOR LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 30 | INDRAMAYU | |
| DIMENSION | DRAWING NO. | |
| Milimeter | S, R, O, P, - , I, D, M, - , 0, 8, 5, - , 3, | |
| - PT. Aneka Asia Buana | | |

LONG WIRE ANT

WHIP ANT





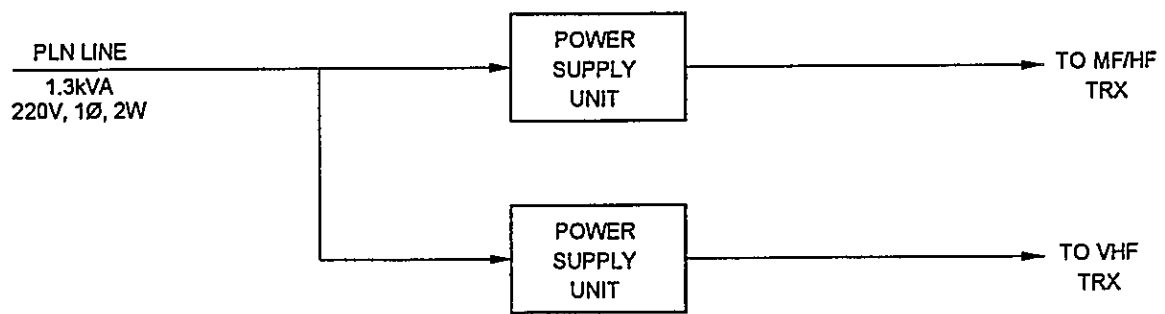
LEGEND

- ANT : ANTENNA
- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- TRX : TRANSCIVER (ING)
- VHF : VERY HIGH FREQUENCY

APPROVED BY JICA

 DRAWN BY AAB




| | | |
|--|---|-----------------|
| DATE Sept 10, 2001 | DRAWING TITLE SYSTEM BLOCK DIAGRAM | SHEET NO 1/1 |
| SCALE No Scale | SITE NAME INDRAMAYU | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, - , I, D, M, - , 0, 8, 5, - , 5, | |
|  -  PT. Aneka Asia Buana | | |



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 APPROVED BY JICA


LEGEND

HF : HIGH FREQUENCY
 KVA : KILO VOLT AMPERE
 MF : MEDIUM FREQUENCY
 TRX : TRANSCIEVER (ING)
 V : VOLT
 W : WIRE
 Ø : PHASE

| | | |
|---|---|-----------------|
| DATE Sept 10, 2001 | DRAWING TITLE POWER BLOCK DIAGRAM | SHEET NO 1/1 |
| SCALE No Scale | SITE NAME INDRAMAYU | |
| DIMENSION Milimeter | DRAWING NO S,R,O,P, - , I,D,M, - , 0,8,5, - , 6, | |
|  -  PT. Aneka Asia Buana | | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station Pamanukan (Coast Station No. 86)

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|-------|-----------|-----|----|
| SUMMARY OF COAST STATION | SITE | PAMANUKAN | | |
| | CLASS | 4th-B | NO. | 86 |

1. LOCATION

| Station | Address | Tel. | Fax | Longitude | Latitude |
|---------|--------------------------------|-------------|-------------|------------------|-----------------|
| TX/RX | Jl. Pdk. Bali No. 2, Pamanukan | 0260-552551 | 0260-552551 | 107° 46' 51.6" E | 06° 12' 33.4" S |

2. GENERAL CONDITIONS

| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population |
|---|---|---|---|------------|
| By Car to Pamanukan [Taking time: 3:00 hr.] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input type="checkbox"/> Hotel | |
| | <input checked="" type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input checked="" type="checkbox"/> Motel | |
| | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | |
| | | <input type="checkbox"/> None | | |

3. CONDITIONS OF STATION Refer to attached drawing

3.1 Site Conditions

| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system | |
|--|--|------------------------------------|---|--|--|
| <input checked="" type="checkbox"/> Flat | <input checked="" type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes | No |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> Antenna | <input type="checkbox"/> |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input type="checkbox"/> Towers (Masts) | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input checked="" type="checkbox"/> Grounding system | <input type="checkbox"/> |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input checked="" type="checkbox"/> Lightning system | <input type="checkbox"/> |
| Altitude | 49.00 M | | Telephone Lines | <input checked="" type="checkbox"/> | <input type="checkbox"/> Feeder Cable Way |
| Land area | 600.00 m ² | | <input checked="" type="checkbox"/> 1 Lines | <input type="checkbox"/> | <input checked="" type="checkbox"/> City water |

| 3.2 Building Conditions | 3.3 Power Source | | |
|-------------------------|------------------|--|--|
|-------------------------|------------------|--|--|

| Constructions | | PLN Source | E/G | Existing Power Conditions | |
|-----------------------------|-----------|-------------------------------|----------|-------------------------------------|--|
| Num. of story | One | Voltage | 220 V | Good | Bad |
| Structure | Concrete | Phase | 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> Power Supply System |
| Type of roof | Roof Tile | Wire | 2 | <input type="checkbox"/> | <input type="checkbox"/> Operations of E/G |
| Type of ceiling | Triplex | kVA | 1,3 | <input type="checkbox"/> | <input type="checkbox"/> Operations of AVR |
| Type of wall | Mortar | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | Painting | Fluctuations | V ± % | Day tank | Liter |
| Flooring | Ceramic | Availability of power per day | 24 Hours | Main tank | k Liter |
| Room Area (m ²) | | Power interruption /month | 3 Times | E/G Stand-by System | |
| Operation room | 6.00 | Total interpt. hours /month | 10 Hours | <input type="checkbox"/> | <input type="checkbox"/> Single System |
| E / G room | | Max interpt. hours at once | 5 Hours | <input type="checkbox"/> | <input type="checkbox"/> Dual System |

Remark

| 4. OPERATION AND MAINTENANCE | 5. PERSONNEL FORMATIONS |
|------------------------------|-------------------------|
|------------------------------|-------------------------|

| Actions taken in equipment failure | | | TX/RX |
|------------------------------------|--|----------------------|---------|
| Restoration flow | | Chief | |
| Examples of major failure | | Operator (skilled) | 1 () () |
| Sufficiency of spares | | Technician (skilled) | () () |

| Records of damages | Environmental Conditions | | Administrator | Total |
|---|-------------------------------------|--|---------------|-------|
| <input type="checkbox"/> Heavy rainfall | Good | Bad | | |
| <input type="checkbox"/> Storm | <input checked="" type="checkbox"/> | <input type="checkbox"/> External noises | | 1 |
| <input type="checkbox"/> Lightning | <input checked="" type="checkbox"/> | <input type="checkbox"/> Air pollution | | |
| <input type="checkbox"/> Other calamity | | | | |

| Institutional and Human Statuses | | | | Training Record | | | | |
|----------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|-----------------|-------|----------|--------|---------|
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 3 Measuring eqpt /tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |

| | | | | |
|---------------------------------|-------|-----------|-----|----|
| SUMMARY OF COAST STATION | SITE | PAMANUKAN | | |
| | CLASS | 4th-B | NO. | 86 |

| 6. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
|--|----|-----|-----|------|---|-----------|--------|---------|-------|-----------|--------|---------|
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

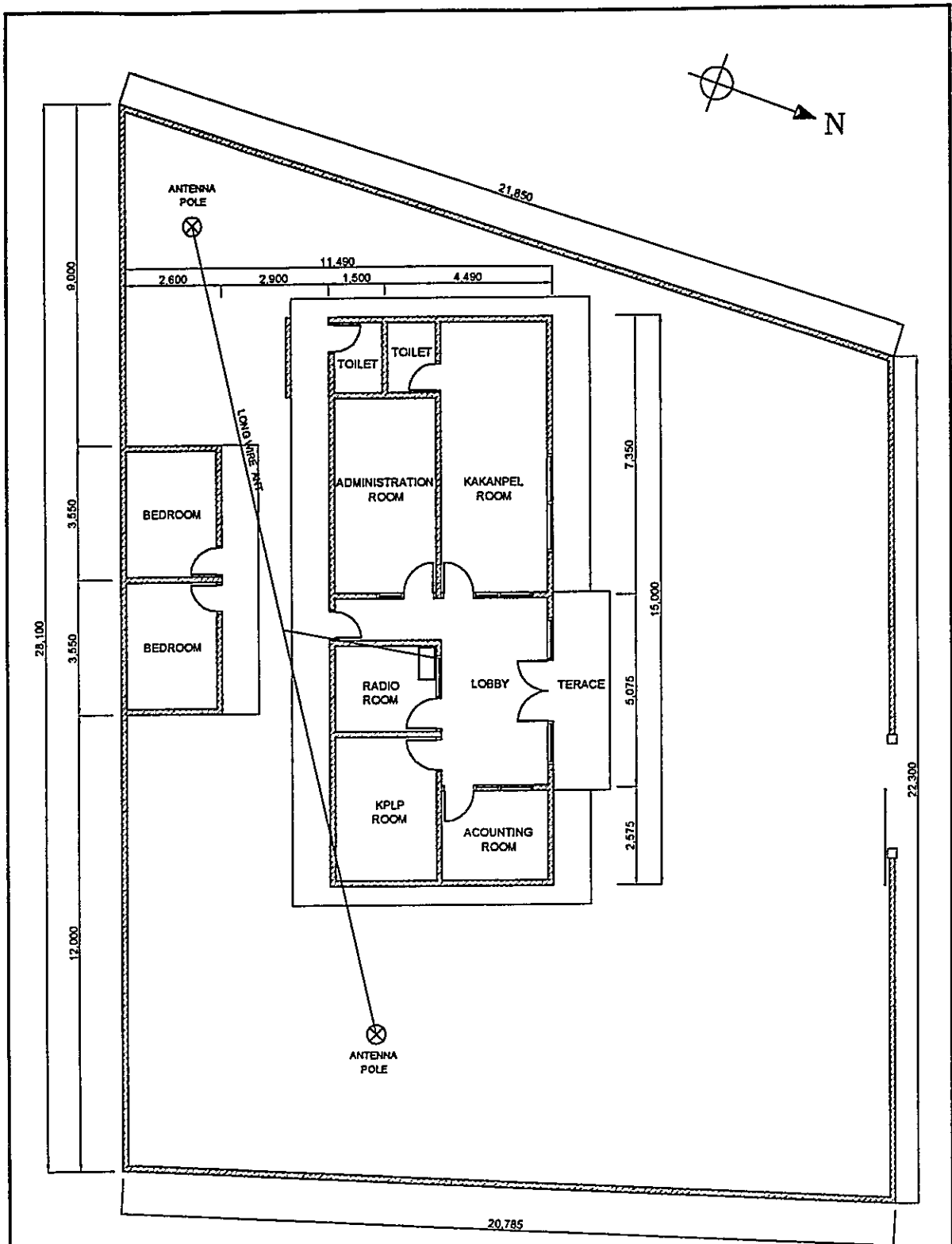
| 7. COMMENTS | |
|--------------------|--------------------------|
| Suggestion | |
| Remarks | Operated by Kanpel Staff |

INVENTORY

Site Name: Pamanukan

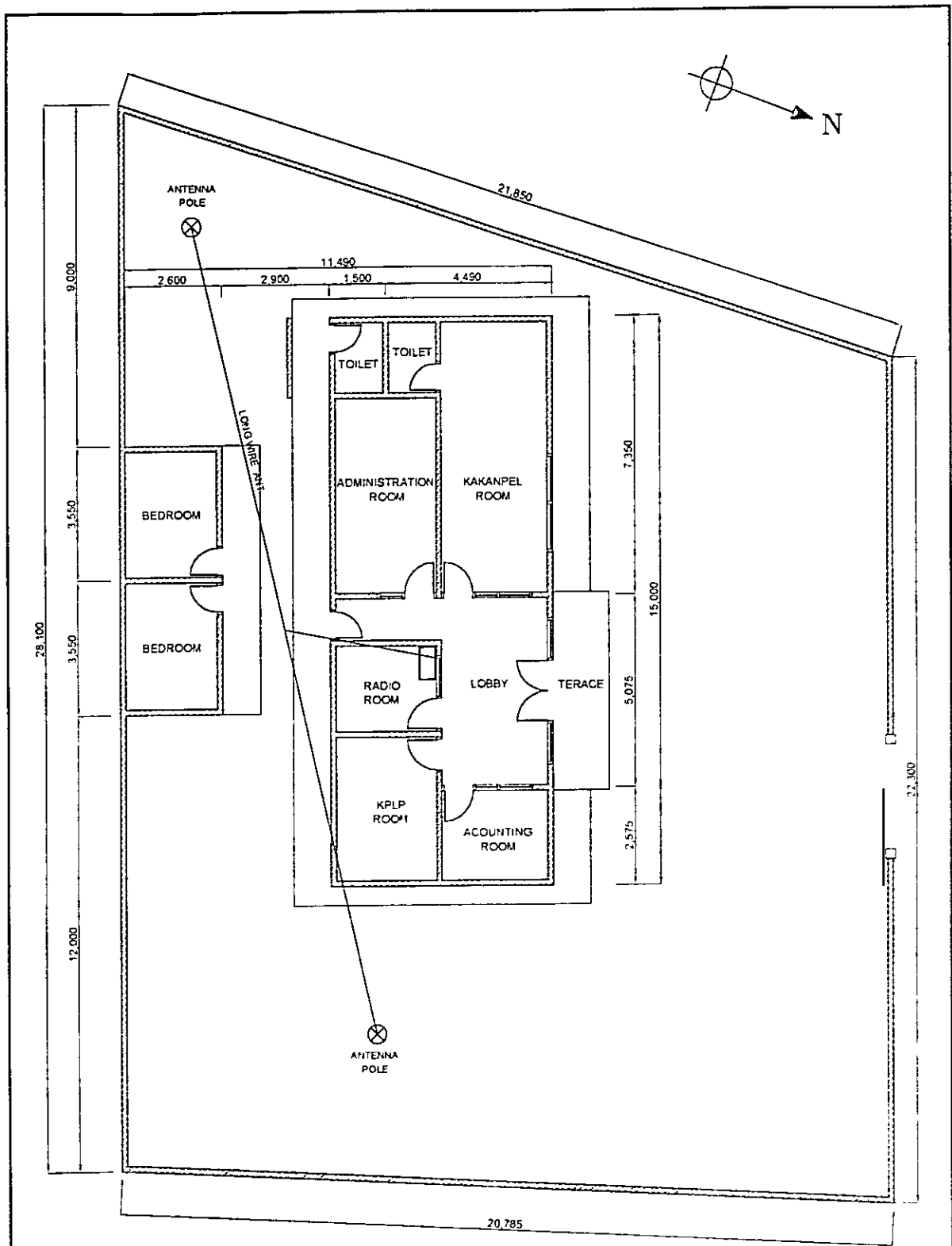
PMK-086- (1 / 1)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|------------------------|----------|-----------|--------------|------|-----------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | | SSB Transmitter | IC-M700 | | ICOM | | | | Good |
| 2 | | Power Supply Equipment | | | | | | | |
| 2-1 | | UPS & AVR | | | | | | | |
| 1 | | Power Supply | MG-1025A | | Merusa | | | | Good |



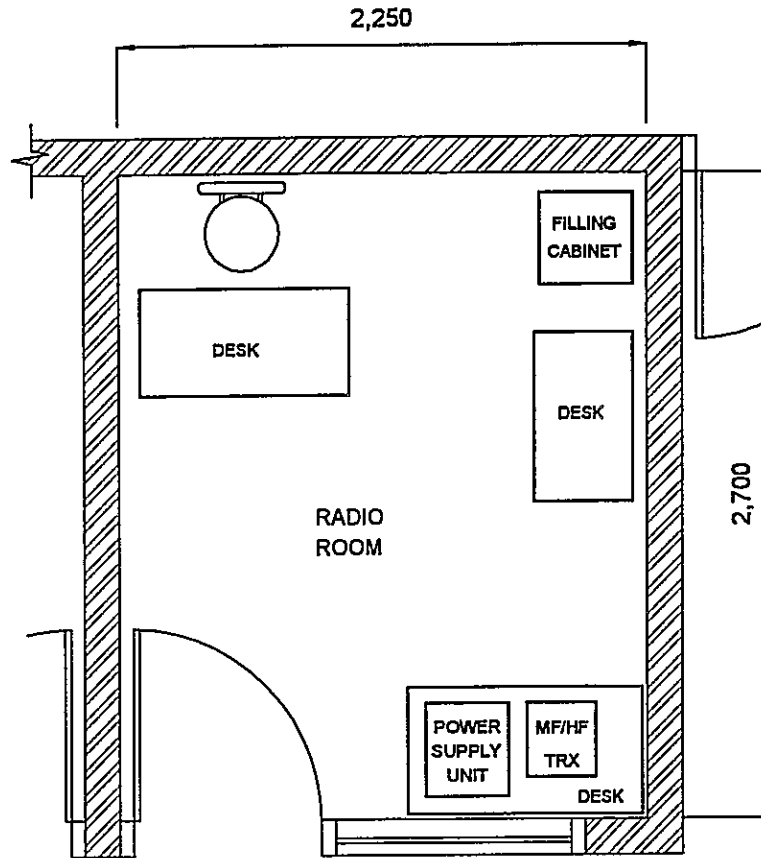
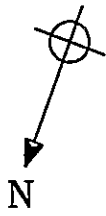
DRAWN BY AAB: *[Signature]*
 APPROVED BY JICA: *[Signature]*

| | | |
|-------------------------|--|----------|
| DATE | DRAWING TITLE | SHEET NO |
| Sept 10, 2001 | ANTENNA LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 150 | PAMANUKAN | |
| DIMENSION | DRAWING NO | |
| Milimeter | S, R, O, P, - P, M, K, - 0, 8, 6, - 2, | |
| - PT. Aneka Asia Buana | | |



DRAWN BY AAB
 APPROVED BY JICA

| | | |
|-------------------------|-------------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| Sept 10, 2001 | ANTENNA LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 150 | PAMANUKAN | |
| DIMENSION | DRAWING NO | |
| Milimeter | S R . O P - P M K - 0 8 6 - 2 | |
| - PT. Aneka Asia Buana | | |



LEGEND

- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- TRX : TRANSCEIVER (ING)

APPROVED BY JICA
 DRAWN BY AAB

| | | |
|-------------------------|--|-----------|
| DATE | DRAWING TITLE | SHEET NO. |
| Sept 10, 2001 | EQUIPMENT FLOOR LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 30 | PAMANUKAN | |
| DIMENSION | DRAWING NO. | |
| Milimeter | S, R, O, P, - P, M, K, - 0, 8, 6, - 3, | |
| - PT. Aneka Asia Buana | | |

LONG WIRE ANT



LEGEND

- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- TRX : TRANSCEIVER (ING)

DRAWN BY AAB. *[Signature]*
APPROVED BY AICA. *[Signature]*

| | | | | | |
|-----------|---------------|---|----------------------|-----------|-------|
| DATE | Sept 10, 2001 | DRAWING TITLE | SYSTEM BLOCK DIAGRAM | SHEET NO. | 1 / 1 |
| SCALE | No Scale | SITE NAME PAMANUKAN | | | |
| DIMENSION | Milimeter | DRAWING NO. S, R, O, P, - P, M, K, - 0, 8, 6, - 5, | | | |
| | | PT. Aneka Asia Buana | | | |

PLN LINE
1.3kVA
220V, 1Ø, 2W





TO RADIO
EQUIPMENT

LEGEND

kVA . KILO VOLT AMPERE
V . VOLT
W . WIRE
Ø : PHASE

DRAWN BY AAB
APPROVED BY JICA
[Signature]

| | | |
|--|---|-------------------|
| DATE Sept 10, 2001 | DRAWING TITLE POWER BLOCK DIAGRAM | SHEET NO 1 / 1 |
| SCALE No Scale | SITE NAME PAMANUKAN | |
| DIMENSION Milimeter | DRAWING NO S, R, O, P, -, P, M, K, -, 0, 8, 6, -, 6, | |
|  -  PT. Aneka Asia Buana | | |

**THE STUDY FOR
MARITIME TRAFFIC SAFETY SYSTEM DEVELOPMENT PLAN
IN THE REPUBLIC OF INDONESIA**

**Maritime Telecommunication Facilities:
Inventory, Plant Records and
Outlook-2001**

**2ND CLASS DISTRICT NAVIGATION AREA (9)
SEMARANG**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

2nd Class District Navigation Area (9) Semarang

Table of Content

| | | | |
|--------|----|--------------|-------------|
| DISNAV | 9 | Semarang | 2nd Class |
| SROP | 87 | Semarang | 2nd Class |
| | 88 | Tegal | 4th-A Class |
| | 89 | Pekalongan | 4th-A Class |
| | 90 | Karimun Jawa | 4th-A Class |
| | 91 | Juwana | 4th-B Class |
| | 92 | Rembang | 4th-B Class |
| | 93 | Jejara | 4th-B Class |

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

2nd Class District Navigation Office (Area-9) Semarang

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)
- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|--------------------------|--------------|-----------------|------------|---|
| SUMMARY OF DISNAV | SITE | SEMARANG | | |
| | CLASS | 2nd | NO. | 9 |

| | | | | |
|----------------------------------|-------------|-------------|------------------|-----------------|
| 1. LOCATION | | | | |
| Address | Tel. | Fax | Longitude | Latitude |
| Jl. Yos Sudarso No. 32, Semarang | 024-3567731 | 024-3567731 | ° ' " | ° ' " |

| | | | | |
|---|---|---|---|-------------------|
| 2. GENERAL CONDITIONS | | | | |
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air to Semarang [Taking time: 1.00 hr.] | <input checked="" type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Car to Location [Taking time: 10.00 hr.] | <input type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | |
| | | <input type="checkbox"/> None | | |

| | |
|---------------------------------------|---------------------------|
| 3. CONDITIONS OF DISNAV OFFICE | Refer to attached drawing |
|---------------------------------------|---------------------------|

| | | | |
|--|--|---|--|
| 3.1 Site Conditions | | | |
| Topography | Nature of Soil | Past disaster of site | Confirmation of existing system |
| <input checked="" type="checkbox"/> Flat | <input checked="" type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | <input type="checkbox"/> Ground Subsidence | <input type="checkbox"/> Ground Subsidence |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | |
| Altitude | m | Telephone Lines | <input type="checkbox"/> Feeder Cable Way |
| Land area | 9.286 m ² | <input checked="" type="checkbox"/> 2 Lines | <input type="checkbox"/> City water |

| | | | | |
|----------------------------------|-----------|----------------------------------|--------------|--|
| 3.2 Building Conditions | | 3.3 Power Source | | |
| Constructions | | PLN Source | E/G | Existing Power Conditions |
| Num. of story | One | Voltage | 220 V | V |
| Structure | Concrete | Phase | | Good Bad |
| Type of roof | Roof Tile | Wire | | <input type="checkbox"/> Power Supply System |
| Type of ceiling | Asbestos | kVA | 2.2 | <input type="checkbox"/> Operations of E/G |
| Type of wall | Brick | Quality of PLN source | | <input type="checkbox"/> Operations of AVR |
| Wall finish | Mortar | Fluctuations | V ± % | Day tank |
| Flooring | Ceramic | Availability of power per day | Hours | Main tank |
| Room Area (m²) | | Power interruption /month | Times | E/G Stand-by System |
| Operation room | 675 | Total interpt. hours /month | Hours | <input type="checkbox"/> Single System |
| E / G room | | Max. interpt. hours at once | Hours | <input type="checkbox"/> Dual System |
| Remark | | | | |

| | | | | | | | | |
|---|-------------------------------------|-------------------------------------|--|--------------------------------|-------|----------|--------|---------|
| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
| Actions taken in equipment failure | | | | | | | | |
| Restoration flow | Repaired by technician | | | Chief | 1 | | | |
| Examples of major failure | Computer Printer | | | Operator (skilled) | () | | | |
| Sufficiency of spares | Not enough | | | Technician (skilled) | () | | | |
| Records of damages | | Environmental Conditions | | Administrator | 32 | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | Total | 33 | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> External noises | | | | | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> Air pollution | | | | | |
| <input type="checkbox"/> Other calamity | | | | | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |

| | | | | |
|--------------------------|--------------|-----------------|------------|----------|
| SUMMARY OF DISNAV | SITE | SEMARANG | | |
| | CLASS | 2nd | NO. | 9 |

| 6. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
|--|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

| 7. COMMENTS | |
|--------------------|--|
| Suggestion | |
| Remarks | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

2nd Class Coast Station Semarang (Coast Station No. 87)

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

| RX | TX | Drawings: |
|---------------------------------------|---------------------------------------|------------------------|
| <input checked="" type="checkbox"/> * | <input checked="" type="checkbox"/> * | Site Location |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Antenna Layout |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Equipment Floor Layout |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | E/G Floor Layout |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | System Block Diagram |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Power Block Diagram |

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|--------------|-----------------|------------|----|
| SUMMARY OF COAST STATION | SITE | SEMARANG | | |
| | CLASS | 2nd | NO. | 87 |

| 1. LOCATION | | | | | |
|-------------|-------------------|---------|---------|----------------|---------------|
| Station | Address | Tel. | Fax | Longitude | Latitude |
| RX | Jl. Tambak Aji II | 8661084 | 8661084 | 110° 19' 53" E | 06° 59' 19" S |
| TX | Jl. Tapak | 8660101 | 8660101 | 110° 20' 50" E | 06° 58' 35" S |

| 2. GENERAL CONDITIONS | | | | |
|--|---|---|---|------------|
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air to Semarang [Taking time: 1:00 hr.] | <input checked="" type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Car to Location [Taking time: 0:15 hr.] | <input type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | |
| | | <input type="checkbox"/> None | | |

| 3. CONDITIONS OF RECEIVING STATION | Refer to attached drawing |
|------------------------------------|---------------------------|
|------------------------------------|---------------------------|

| 3.1 Site Conditions | | | | | |
|--|--|------------------------------------|---|--|---|
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system | |
| <input type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes No | |
| <input type="checkbox"/> Slope | <input checked="" type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> Antenna | |
| <input checked="" type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input checked="" type="checkbox"/> Towers (Masts) | |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input checked="" type="checkbox"/> Grounding system | |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input checked="" type="checkbox"/> Lightning system | |
| Altitude | M | | Telephone Lines | <input checked="" type="checkbox"/> Feeder Cable Way | |
| Land area | 16,805 m ² | | <input checked="" type="checkbox"/> 2 Lines | <input type="checkbox"/> City water | |
| 3.2 Building Conditions | | 3.3 Power Source | | | |
| Constructions | | PLN Source | E/G | Existing Power Conditions | |
| Num. of story | One | Voltage | 220/380 V | 220/380 V | Good Bad |
| Structure | Concrete | Phase | 3 | 3 | <input checked="" type="checkbox"/> Power Supply System |
| Type of roof | Roof Tile | Wire | 4 | 4 | <input checked="" type="checkbox"/> Operations of E/G |
| Type of ceiling | Plasterboard | kVA | 41.5 | 17.5 | <input checked="" type="checkbox"/> Operations of AVR |
| Type of wall | Brick | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | Mortar | Fluctuations | 10 V ± 10 % | | Day tank Liter |
| Flooring | Ceramic | Availability of power per day | 24 Hours | Main tank k Liter | |
| Room Area (m ²) | | Power interruption /month | 3 Times | E/G Stand-by System | |
| Operation room | 110.00 | Total interpt. hours /month | 20 Hours | <input type="checkbox"/> Single System | |
| E / G room | 36.00 | Max. interpt. hours at once | 10 Hours | <input checked="" type="checkbox"/> Dual System | |
| Remark | One E/G Damaged | | | | |

| 4. CONDITIONS OF TRANSMITTING STATION | Refer to attached drawing |
|---------------------------------------|---------------------------|
|---------------------------------------|---------------------------|

| Site Conditions | | | | |
|--|-----------------------------------|---|--|--|
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system |
| <input checked="" type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes No |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input checked="" type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input checked="" type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input checked="" type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input checked="" type="checkbox"/> Lightning system |
| Altitude | m | | Telephone Lines | <input checked="" type="checkbox"/> Feeder Cable Way |
| Land area | 14.401 m ² | | <input checked="" type="checkbox"/> Lines | <input type="checkbox"/> City water |

| | | | | |
|---------------------------------|-------|----------|-----|----|
| SUMMARY OF COAST STATION | SITE | SEMARANG | | |
| | CLASS | 2nd | NO. | 87 |

| | | | | | |
|--|--------------|-------------------------------|---------------------|------------------------------------|--|
| 4. CONDITIONS OF TRANSMITTING STATION (Continued) | | | | | Refer to attached drawing |
| Building Conditions | | | Power Source | | |
| Constructions | | | PLN Source | E/G | Existing Power Conditions |
| Num. of story | One | Voltage | 220/380 V | 220/380 V | Good Bad |
| Structure | Concrete | Phase | 3 | 3 | <input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System |
| Type of roof | Roof Tile | Wire | 4 | 4 | <input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G |
| Type of ceiling | Plasterboard | kVA | 41.8 | 40 | <input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR |
| Type of wall | Brick | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | Mortar | Fluctuations | 25 V ± 10 % | | Day tank Liter |
| Flooring | Ceramic | Availability of power per day | 24 Hours | | Main tank k Liter |
| Room Area (m²) | | Power interruption /month | 2 Times | | E/G Stand-by System |
| Operation room | 56.00 | Total interpt. hours /month | 7 Hours | | <input checked="" type="checkbox"/> Single System |
| E / G room | 33.00 | Max. interpt. hours at once | 10 Hours | | <input type="checkbox"/> Dual System |
| Remark | | | | | |

| | | | | | | | | | | | | |
|---|-------------------------------------|--|--|--------------------------|--------------------------------|-----------|---------|-----------|--------|---|----|----|
| 5. OPERATION AND MAINTENANCE | | | | | 6. PERSONNEL FORMATIONS | | | | | | | |
| Actions taken in equipment failure | | | | | | RX | | TX | | | | |
| Restoration flow | Repaired by himself | | | | Chief | | 1 | | | | | |
| Examples of major failure | Radio Link damaged | | | | Operator (skilled) | | 24 (19) | | 0 | | | |
| Sufficiency of spares | | | | | Technician (skilled) | | 11 (1) | | 12 (1) | | | |
| Records of damages | | | Environmental Conditions | | Administrator | | | | | | | |
| <input type="checkbox"/> Heavy rainfall | | | Good | Bad | | | | | | | | |
| <input type="checkbox"/> Storm | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | External noises | Total | | | | 3 | 26 | 12 |
| <input checked="" type="checkbox"/> Lightning | MF Telegrafi | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Air pollution | | | | | | | |
| <input type="checkbox"/> Other calamity | | | | | | | | | | | | |
| Institutional and Human Statuses | | | | | Training Record | | | | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee | | | | |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | Pre | I | SBY | | 1 | | | | |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | Pre | II | JKT | | 9 | | | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | Oru | | | | 9 | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | TTP | II | | | 1 | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | TTP | III | | | 1 | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | | | | | |

| | | | | | | | | | | | | |
|--|----|-----|-----|------|---|-----------|--------|---------|-------|-----------|--------|---------|
| 7. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | 48 | 145 | 1,689 | 1996 | 90 | 249 | 1,62 |
| 1997 | | | | | 1992 | 60 | 150 | 1,578 | 1997 | 76 | 512 | 448 |
| 1998 | | | | | 1993 | 63 | 168 | 2,156 | 1998 | 228 | 1,102 | 660 |
| 1999 | | | | | 1994 | 76 | 175 | 1,811 | 1999 | 465 | 1,978 | 486 |
| 2000 | | | | | 1995 | 84 | 245 | 2,334 | 2000 | 427 | 1,611 | 450 |

| | |
|--------------------|---|
| 8. COMMENTS | |
| Suggestion | Necessary to upgrade Operator, by training especially for technical matter. Necessary coordination with related institution Request for upgrading Coast Station equipment, due to aging. Request motor cycle to support maintenance/repair between RX and TX stations |
| Remarks | |

INVENTORY

Site Name: Semarang

SMG-087- (1 / 7)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-------|----------------|-----------------------------------|-------------|--------------|--------------|------|--------------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | | Transmitter | | | | | | | |
| 1 | | 1 kW SSB Transmitter | JRS 106 NB | BS61491 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 2 | | 1 kW SSB Transmitter | JRS 106 NB | BS61492 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 3 | | 1 kW SSB Transmitter | JRS 106 NB | BS61493 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 4 | | 1 kW MF Transmitter | JRS 108 P | BS62121 | JRC | 1989 | F-TA-193:PH2 | | Damaged |
| 5 | | 1kW MHF TP Transmitter | MC2853/S01 | 352214472181 | Philips | - | | | Damaged |
| 6 | | 1kW MHF TP Transmitter | MC2853/S01 | 352214472171 | Philips | - | | | Damaged |
| 7 | | 1kW HF TX (DSC/NBDP) | JRS-106 NB | BS61936 | JRC | 1996 | F-TA-193:PH3 | | Damaged |
| 1-2 | | Remote Control System | | | | | | | |
| 1-2-1 | | Remote Control | | | | | | | |
| 1 | | Voice Frequency Telegraph | JUT-1A | EQ-12852 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 2 | | Voice Frequency Telegraph | JUT-1A | EQ-12853 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 3 | | Remote Control Rack | GED-1113B | BP-91861 | JRC | 1989 | F-TA-193:PH1 | | Good |
| 4 | | Remote Control & Morse Rack | GED-1050 C | BP-89025 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 5 | | Morse Transmitter | NGK-2 | BS-61453 | JRC | 1985 | F-TA-193:PH1 | | Damaged |
| 6 | | Local Terminal Unit | JCC-300LR8W | BP-89317 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 7 | | Local Terminal Unit | JCC-300LR8 | BP-91773 | JRC | 1989 | F-TA-193:PH1 | | Good |
| 8 | | Remote Control Unit | JCC-300ROS | BP-89329 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 9 | | Local Terminal Unit | JCC-300LR8 | BP-908970 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 10 | | Noise Filter (for GED-1113A) | NFH-300B | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 1-3 | | Operator Console/Desk/Rack | | | | | | | |
| 1-3-1 | | MF TG Operation Desk | | | | | | | |
| 1 | | Receiver | NRD-93 | BR-33394 | JRC | 1985 | F-TA-193:PH1 | | Damaged |
| 2 | | Receiver | NRD-93 | BR-33395 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 3 | | Speaker | NVA-92 | BP-23767 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 4 | | Speaker | NVA-92 | BP-23766 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 1-3-2 | | Operator Rack | | | | | | | |
| 1 | | Operation Rack | GED-1055C | BP-89367 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 2 | | Operation Rack | GED-1055C | BP-89368 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 3 | | Operation Rack | GED-1055C | BP-89369 | JRC | 1985 | F-TA-193:PH1 | | Good |

INVENTORY

Site Name: Semarang

SMG-087- (2/7)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-------|----------------|----------------------------------|------------|-------------|--------------|------|--------------|--------------------|-----------|
| 4 | | Receiver | NRD-93 | BR-33394 | JRC | 1985 | F-TA-193:PHI | | Good |
| 6 | | Receiver | NRD-93 | BR-33395 | JRC | 1985 | F-TA-193:PHI | | Good |
| 7 | | Receiver | NRD-93 | BR-33396 | JRC | 1985 | F-TA-193:PHI | | Good |
| 8 | | Scanning Unit | NDH-93 | BR-35473 | JRC | 1985 | F-TA-193:PHI | | Good |
| 9 | | Scanning Unit | NDH-93 | BR-35474 | JRC | 1985 | F-TA-193:PHI | | Good |
| 10 | | Speaker (3) | NVA-64G | - | JRC | 1985 | F-TA-193:PHI | | Good |
| 11 | | Tx Controller | NCH-230 | BP-89513 | JRC | 1985 | F-TA-193:PHI | | Good |
| 12 | | Tx Controller | NCH-230 | BP-89514 | JRC | 1985 | F-TA-193:PHI | | Good |
| 13 | | Tx Controller | NCH-230 | BP-89515 | JRC | 1985 | F-TA-193:PHI | | Good |
| 14 | | Radio Terminal | NQP-11 | BP-89433 | JRC | 1985 | F-TA-193:PHI | | Good |
| 15 | | Radio Terminal | NQP-11 | BP-89434 | JRC | 1985 | F-TA-193:PHI | | Good |
| 16 | | Radio Terminal | NQP-11 | BP-89435 | JRC | 1985 | F-TA-193:PHI | | Good |
| 17 | | Power Supply (3) | NBK-31B | - | JRC | 1985 | F-TA-193:PHI | | Good |
| 1-3-3 | | Search & Monitor Console | | | | | | | |
| 1 | | Search & Monitor Console | NCA-564B | BP-89354 | JRC | 1985 | F-TA-193:PHI | | Good |
| 2 | | Receiver | NRD-93 | BR-33393 | JRC | 1985 | F-TA-193:PHI | | Good |
| 3 | | Scanning Unit | NDH-93 | BR-335472 | JRC | 1985 | F-TA-193:PHI | | Damaged |
| 4 | | Speaker Panel | NVA-64G | - | JRC | 1985 | F-TA-193:PHI | | Good |
| 5 | | 500 kHz AA Rec. | JXA-15A | BA-20745 | JRC | 1985 | F-TA-193:PHI | | Good |
| 6 | | 2182 kHz AA Rec. | JXA-8A | BA-21043 | JRC | 1985 | F-TA-193:PHI | | Good |
| 7 | | Auto Direction Finder | JLR-1002 | MF-12478 | JRC | 1985 | F-TA-193:PHI | | Good |
| 8 | | Power Supply (1) | NBK-31B | - | JRC | 1985 | F-TA-193:PHI | | Good |
| 9 | | 500 kHz AA Buzzer | BZ-18 | BA-20745 | JRC | 1985 | F-TA-193:PHI | | Good |
| 10 | | Power Unit | NBA-3579 | BP-20745 | JRC | 1985 | F-TA-193:PHI | | Good |
| 11 | | Power Supply | NBA-1180 | MF-12478 | JRC | 1985 | F-TA-193:PHI | | Good |
| 1-3-4 | | DSC Console | | | | | | | |
| 1 | | DSC Console (Distress/Gen. Call) | NCA-783C | BP98272 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 2 | | Junction Box | NQD-3655C | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 3 | | Power Supply | NBK-31 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 4 | | Personal Computer 150 DX4-100 | PC100 | A19000A41GK | JRC | 1996 | F-TA-193:PH3 | | Good |
| 5 | | CRT Display | 6542-105 | 66-71603 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 6 | | System Floppy Disk (DSC) | 7YLED10102 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 7 | | Master Clock | NKH-100 | BP99590 | JRC | 1996 | F-TA-193:PH3 | | Good |

Semarang

INVENTORY

Site Name: Semarang

SMG-087- (3 / 7)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-------|----------------|-----------------------------------|-----------|-----------|--------------|------|--------------|--------------------|-----------|
| 8 | | Chair | - | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 9 | | Printer Rack | P-1020G | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 10 | | Printer | LX-300 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 11 | | Paper (x2) | - | 079593 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 1-3-5 | | DSC Rack | - | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 1 | | ALM Buzzer | CCD-242 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 2 | | DSC W/K RX Rack (1U type) | GED-1248 | BP98291 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 3 | | RF Jack Panel | NQE-584R | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 4 | | Junction Box | NQD-3631D | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 5 | | DSC W/K Receiver | NRD-740 | BR69458 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 6 | | DSC W/K Receiver | NRD-740 | BR69459 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 7 | | DSC W/K Receiver | NRD-740 | BR69460 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 8 | | DSC W/K Receiver | NRD-740 | BR69461 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 9 | | DSC W/K Receiver | NRD-740 | BR69462 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 10 | | RX Controller | NCJ-536A | BP98381 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 11 | | System Rack with Mother Board &PS | NCT-32 | BP98547 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 12 | | DSC DEM | CND-129A | BP98474 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 13 | | DSC DEM | CND-129A | BP98475 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 14 | | DSC MOD | CNM-159A | BP98505 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 15 | | VHF DSC Modem (CH 70) | CNM-158A | BP98529 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 16 | | CPU IF | CDC-721A | BP98433 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 17 | | Power Supply | NBA-3979C | BP98560 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 1-3-6 | | DSC/NBDP Console | NCA-641B | BP90849 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 1 | | Receiver | NRD-93 | BR-41468 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 2 | | Receiver | NRD-93 | BR-41469 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 3 | | Scanning Unit | NDH-93 | BR-41468 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 4 | | Scanning Unit | NDH-93 | BR-41469 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 5 | | Speaker Panel | NVA-64 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 6 | | Signal Controller Without Vodas | NQP-22 | BR-90983 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 7 | | Signal Controller Without Vodas | NQP-22 | BR-90984 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 8 | | Telecontroller | NCH-300P | BR-90935 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 9 | | 2W/4W Converter | NHH-556A | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 10 | | ARQ Equipment | NCL-550A | GA-11027 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 11 | | Telex Operation Unit | NQE-556A | GA-11003 | JRC | 1996 | F-TA-193:PH3 | | Good |

Semarang

INVENTORY

Site Name: Semarang

SMG-087- (4 / 7)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-------|----------------|--------------------------------|-----------|------------|--------------|------|--------------|--------------------|-----------|
| 12 | | DSC Terminal | NCT-60C | GA-11007 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 13 | | Connection Box (x2) | CQD-503A | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 14 | | Power Supply Unit | NBK-31D | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 15 | | Clock (No. Mark + 7H) | HCED10012 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 16 | | RF Jack Panel | NQE-584C | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 17 | | Junction Box | NQD-3193A | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 18 | | Teleprinter | T-1000S | BC/V102554 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 19 | | Teleprinter | T-1000S | BC/V102555 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 1-3-7 | | Connection Rack | | | | | | | |
| 1 | | Audio Select and Monitor | NCJ-280 B | BP-89379 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 2 | | Tape Recorder | X-2000 R | 40488 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 1-4 | | VHF System | | | | | | | |
| 1 | | Transceiver VHF Marine | GFD-260YK | CV-57467 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 2 | | Transceiver VHF Marine | GFD-260YL | CV-57485 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 3 | | Transceiver VHF Marine | GFD-260YL | CV-57486 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 4 | | VHF Console | GFD-501YB | CV-57490 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 5 | | Band Pass Filter | BP2-1500A | F-44453 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 7 | | Telecontroller | NCH-300D | BP-91756 | JRC | 1989 | F-TA-193:PH1 | | Good |
| 8 | | Coaxial Arrester | NYZ-400 | 84042 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 9 | | VHF TX/RX (CH70 DSC) with Cab. | JRV-500AP | BH20430 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 10 | | Duplexer | AW-158YB | 950719 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 11 | | Coaxial Arrester | NYZ-150 | 95064 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 1-5 | | UHF/SHF Link | | | | | | | |
| 1 | | Multiplex Radio Relay Eqpt | JUP-450 | EM-11519 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 2 | | Multiplex Radio Relay Eqpt | JUP-450 | EM-11520 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 3 | | Multiplex Radio Relay Eqpt | JUP-450 | EM-11517 | JRC | 1985 | F-TA-193:PH1 | | Damaged |
| 4 | | Multiplex Radio Relay Eqpt | JUP-450 | EM-11518 | JRC | 1985 | F-TA-193:PH1 | | Damaged |
| 5 | | Multiplex Terminal Equipment | JUP-5A | EP-11849 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 6 | | Multiplex Terminal Equipment | JUP-5A | EP-11848 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 7 | | Main Distribution Frame | NQE-40A2 | EQ-12835 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 8 | | Main Distribution Frame | NQE-40A2 | EQ-12833 | JRC | 1985 | F-TA-193:PH1 | | Good |

INVENTORY

Site Name: Semarang

SMG-087- (5/17)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|--|------------------|-------------------|--------------|--------------|--------------|--------------------|--------------|
| 2 | | Tower & Antenna System | | | | | | | |
| 2-1 | | Tower & Mast TX Station 30mH Self Supporting Tower (4) | Square | T1, T2, T3 & T4 | JRC | 1996 | | | Good |
| 1 | | RX Station 30mH Self Supporting 20mH Self Supporting | Square Square | T1 T2, T3 & T4 | JRC | 1996 1976 | | | Good Good |
| 2-2 | | Antenna System TX Station | | | | | | | |
| 1 | | 8 Element Yagi Antenna | Y8-4503SA | 4086 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 2 | | 8 Element Yagi Antenna | Y8-4503SA | 4083 | JRC | 1985 | F-TA-193:PH1 | | Good |
| 3 | | 5W-T Type Antenna | CT-046M | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 4 | | Inverted "L" Antenna (x2) | CL-045M | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 5 | | Broad Band H Antenna | HW330-3-2 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 6 | | Broad Band H Antenna | HD220-1-2 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 7 | | Fan Antenna | - | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 1 | | RX Station | | | | | | | |
| 2 | | Inverted "L" Antenna | | | | | | | Good |
| 3 | | Loop Antenna | | | | | | | Good |
| 4 | | Double Doublet Antenna (2) | | | | | | | Good |
| 5 | | Brown Cardioid Antenna | BRC-1501 | 4308 | - | 1985 | F-TA-193:PH1 | | Good |
| 6 | | Brown Cardioid Antenna | BRC-1501 | 4045 | - | 1985 | F-TA-193:PH1 | | Good |
| 7 | | Brown Cardioid Antenna | BRC-1501 | 4052 | - | 1985 | F-TA-193:PH1 | | Good |
| | | Brown Cardioid Antenna | BRC-1511 | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 2-3 | | Antenna Switch | | | | | | | |
| 1 | | Antenna Selector Rack | GJD-107E | BP-89118 | - | 1985 | F-TA-193:PH1 | | Good |
| 2 | | Antenna Selector | NKZ-220B | - | - | 1985 | F-TA-193:PH1 | | Good |
| 3 | | Antenna Multicoupler | NAF-80FA | BC-13465 | - | 1985 | F-TA-193:PH1 | | Good |
| 4 | | Antenna Multicoupler | NAF-80FA | BC-13466 | - | 1985 | F-TA-193:PH1 | | Good |

Semarang

INVENTORY

Site Name: Semarang

SMG-087- (6 / 7)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|------------------------------------|--------------|-----------|--------------|------|--------------|--------------------|-----------|
| 5 | | Antenna Multicoupler | NAF-80FA | BC-13467 | - | 1985 | F-TA-193:PH1 | | Good |
| 6 | | BC Band Rejection Filter | CFL-172 | BC-13550 | - | 1985 | F-TA-193:PH1 | | Good |
| 7 | | BC Band Rejection Filter | CFL-172 | BC-13551 | - | 1985 | F-TA-193:PH1 | | Good |
| 8 | | BC Band Rejection Filter | CFL-172 | BC-13552 | - | 1985 | F-TA-193:PH1 | | Good |
| 2-4 | | Antenna Matching Unit | | | | | | | |
| 1 | | Antenna Matching Unit | NFG-3D | BP-91495 | - | 1985 | F-TA-193:PH1 | | Good |
| 2 | | Antenna Matching Unit (RX) | AW-314 | - | - | 1985 | F-TA-193:PH1 | | Good |
| 3 | | Antenna Matching Unit (TX for DSC) | NFG-140A | BP-98601 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 4 | | Antenna Matching Unit (RX for IL) | AW-314M | - | JRC | 1996 | F-TA-193:PH3 | | Good |
| 5 | | Antenna Matching Unit (TX for T) | NFG-2CA | BP-88958 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 3 | | Power Supply Equipment | | | | | | | |
| 3-1 | | Power Distribution Board | | | | | | | |
| 1 | | Power Distribution Board | NBJ-155D | AAJ014D | JRC | - | F-TA-193:PH3 | | Good |
| 2 | | Power Distribution Board | NBJ-155C | AAJ014C | JRC | - | F-TA-193:PH3 | | Good |
| 3 | | Type TA1 (for TX) 380V, 3P | NBJ-402TA1 | BP98353 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 4 | | Type RA1 (for RX) 220V, 1P | NBJ-402RA1 | BP98323 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 3-2 | | Isolation Transformer | | | | | | | |
| 1 | | 40kVA, 380V, 3P | NBL-227C | BP99809 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 2 | | 5kVA, 220V, 1P | NBL-227F | BP99820 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 3-3 | | Step-Up Transformer | | | | | | | |
| 1 | | Step up/down Transformer | - | - | Gunindo | 1988 | | | Good |
| 2 | | 50 kVA, 380/200V, 3P | | | | | | | Good |
| 3 | | 40kVA, 220/380V, 3P | NBL-226A | BP99785 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 4 | | 3.5kVA (for TX), 220/380V, 3P | NBL-226B | BP99794 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 5 | | 3.5kVA (for TX), 220/380V, 3P | NBL-226B | BP99795 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 3-4 | | UPS & AVR System | | | | | | | |
| 1 | | Stabilizer | | | Sayama | - | | | Good |
| 2 | | AVR 40kVA, 380V, 3P | NBK-102B | AVR-1565 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 3 | | AVR 5kVA, 220V, 1P | NBK-102C | BP99783 | JRC | 1996 | F-TA-193:PH3 | | Good |
| 4 | | UPS 2kVA, 220V, 1P | Net Pro 2000 | IN20A02/ | JRC | 1996 | F-TA-193:PH3 | | Good |

Semarang

INVENTORY

Site Name: Semarang

SMG-087- (7 / 7)

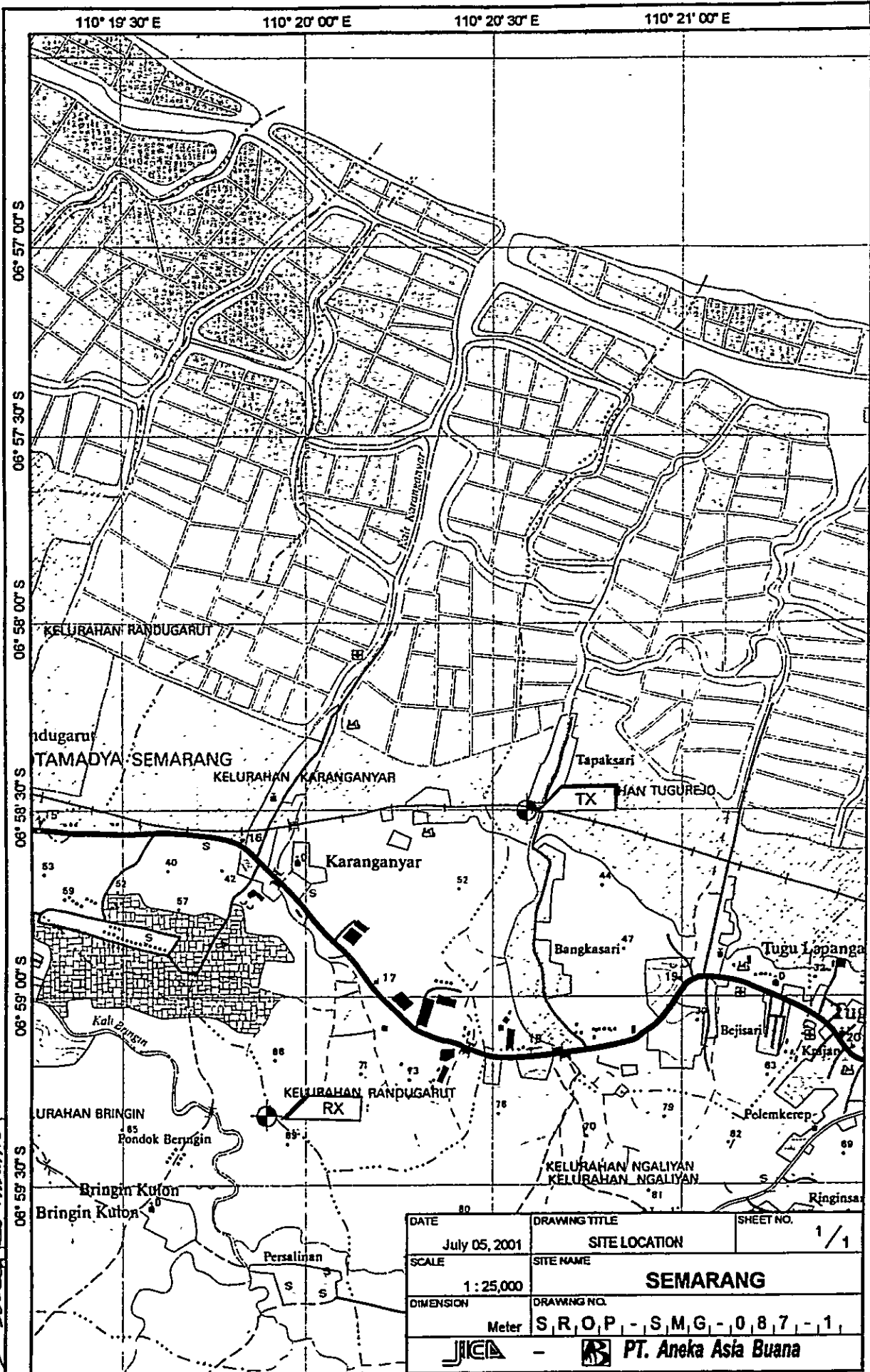
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|------------------------------|--------------|-------------|--------------|------|-----------|--------------------|-----------|
| 3-5 | | Engine Generator | D208-6 | 208.3.13709 | MWM | - | | | Good |
| 1 | | Engine | D208-3 | 208.3.13708 | MWM | - | | | Good |
| 2 | | Engine | PJ2 | 31240/PJ2R | PETIER | - | | | Damaged |
| 3 | | Generator 40 kVA (RX) | DIB34/35-4 | 408855 | AVK | - | | | Good |
| 4 | | Generator 17.5 kVA (RX) | DIB34/17.5-4 | 410244 | AVK | - | | | Good |
| 5 | | Generator 15 kVA (TX) | D-80 | 230020 | Stanford | - | | | Good |
| 6 | | Measuring Equipment | | | | | | | |
| 4 | | Oscilloscope | 2235 | B017867 | Elektronik | - | | | Damaged |
| 1 | | Digital Circuit Tester | MD-200C | 841216 | Philips | - | | | Good |
| 2 | | Frequency Counter | 5383A | 2412A06333 | HP | - | | | Damaged |
| 3 | | Audio Distortion Meter | 796F | M-14427024 | - | - | | | Good |
| 4 | | RF Signal Generator | MSG-2560B | 84113135 | - | - | | | Good |
| 5 | | Elect. Voltmeter with prove | ML-69A | M14986 | - | - | | | Good |
| 6 | | VHF Signal Generator | MG-54E | M44984 | - | - | | | Good |
| 7 | | VHF Output Testing Equipment | MS-52B | M49683 | - | - | | | Good |
| 8 | | Directional Coupler | MA-52A | M94987 | - | - | | | Good |
| 9 | | VHF/UHF Dummy Load | TP-5J1D | 22165 | - | - | | | Good |
| 10 | | Selec. Level Meter/Gen. | AD-7530 | 534589 | - | - | | | Good |
| 11 | | UHF Signal Generator | MG-54D | M36791 | - | - | | | Good |
| 12 | | Psophometric Weighting Netw. | NJM-776B | ES11473 | - | - | | | Good |
| 13 | | Portable Test Rack (I) | 206 | - | - | - | | | Good |
| 14 | | DC Power Supply Unit | PAD-35-5L | 1840899 | - | - | | | Good |
| 15 | | Motor Drive Wire Wrapper | EW-70 | - | - | - | | | Good |
| 16 | | Others | | | | | | | |
| 5 | | Air Conditioner 2PK (TX) | 1000BTU | 50 | G.Elect. | - | | | Good |
| 1 | | Air Conditioner 4x2PK (RX) | CW-121 | 11934907 | National | - | | | Good |
| 2 | | Tools (1) | ZPED00002 | - | - | - | | | Good |
| 3 | | Tools (1) | S-10 | - | - | - | | | Good |
| 4 | | Tools (1) | ND-XP217A-74 | - | - | - | | | Good |
| 5 | | Dummy Load (1kW) | DL-102A-SJ-A | 93895-1 | - | - | | | Good |
| 6 | | | | | | | | | Good |

STATUS OF TROUBLES

SITE NAME : SEMARANG

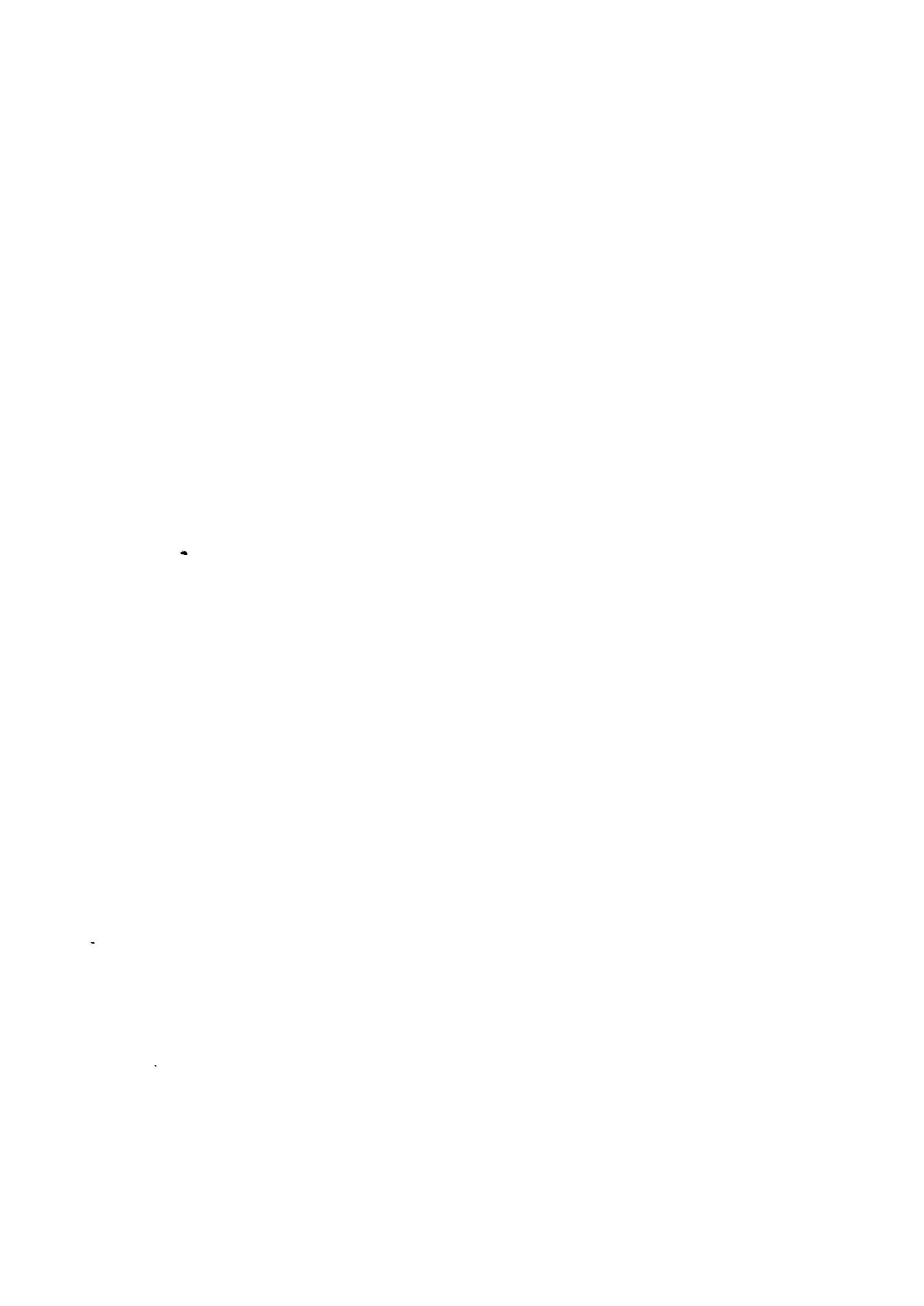
SMG-87-(1/1)

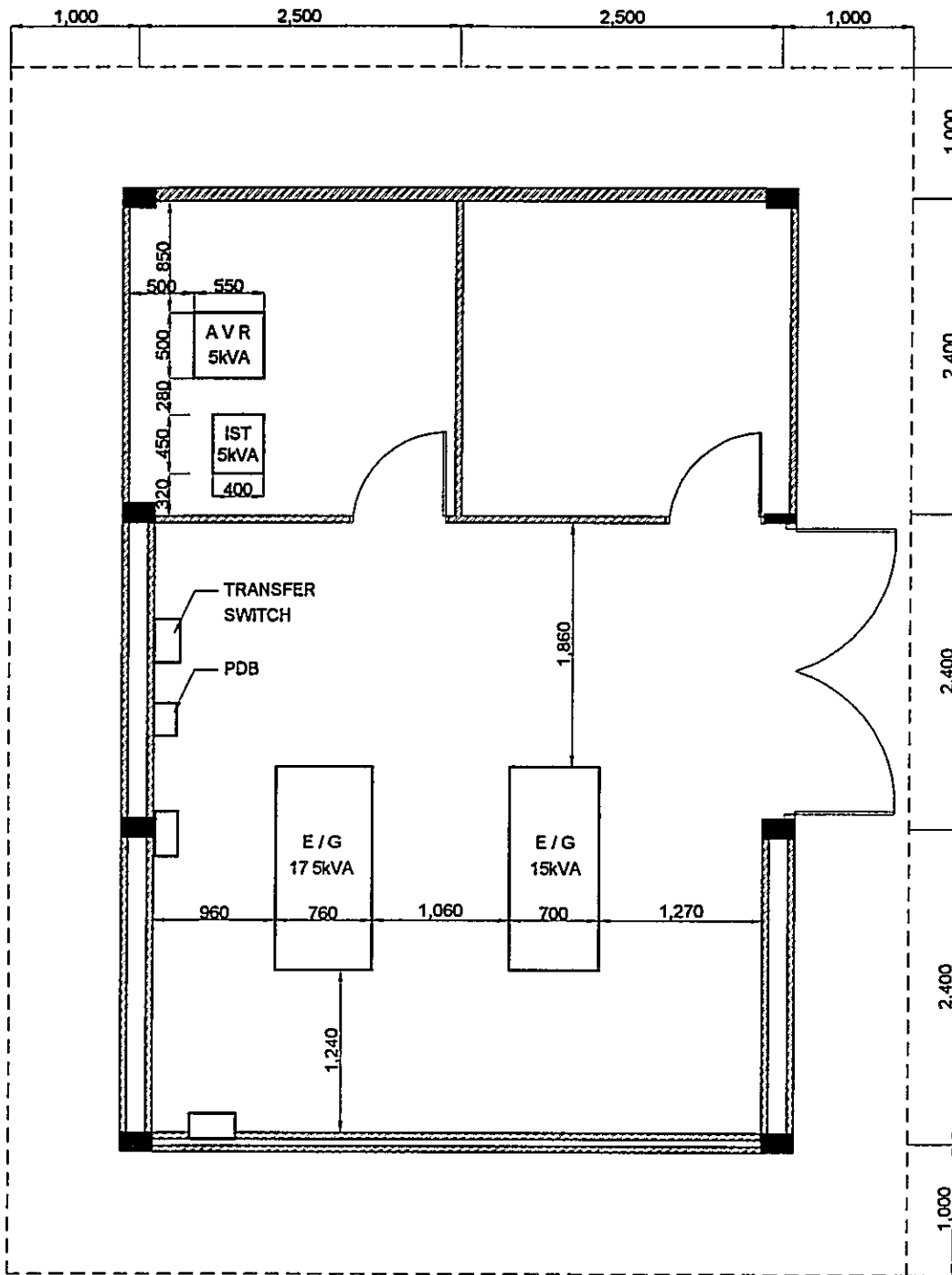
| | | | |
|---|---|-------------------|---|
| Item / Equipment | MF Telegraphy / Freq. 500 kHz | | |
| Manufacturer | JRC | | |
| Manufacturer in year | 1989 | | |
| Defective panel / unit | - | | |
| Details of Trouble Status | Cause due to: | Urgency of Repair | Repairing to be: |
| | <input type="checkbox"/> Aging | | <input checked="" type="checkbox"/> Immediacy |
| | <input checked="" type="checkbox"/> Lightning | | <input type="checkbox"/> By next year budget |
| | <input type="checkbox"/> Corrosion | | <input type="checkbox"/> By next project |
| | <input type="checkbox"/> Lack of Spares | | <input type="checkbox"/> Unnecessary |
| | <input type="checkbox"/> Others | | |
| <u>General Comment for Maintenance:</u> | | | |
| <p>Regarding spare part is difficult to find out, therefore repairing of Radio Equipment is needed a long time and generally the equipment has been aged, repairing will take along time and generally the equipment is already aged.</p> <p>Referring to the new List Coast Station's Time Schedule , Semarang Coast Station must be completed by additional Radio equipment.</p> <p>Generator in Transmitting Station is only one unit, we request for additional one unit.</p> | | | |



DRAWN BY ABL: *[Signature]*
 APPROVED BY JICA: *[Signature]*

| | | |
|---------------|---|-----------|
| DATE | DRAWING TITLE | SHEET NO. |
| July 05, 2001 | SITE LOCATION | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 25,000 | SEMARANG | |
| DIMENSION | DRAWING NO. | |
| Meter | S, R, O, P, - S, M, G, - 0, 8, 7, - 1, | |
| - | | |





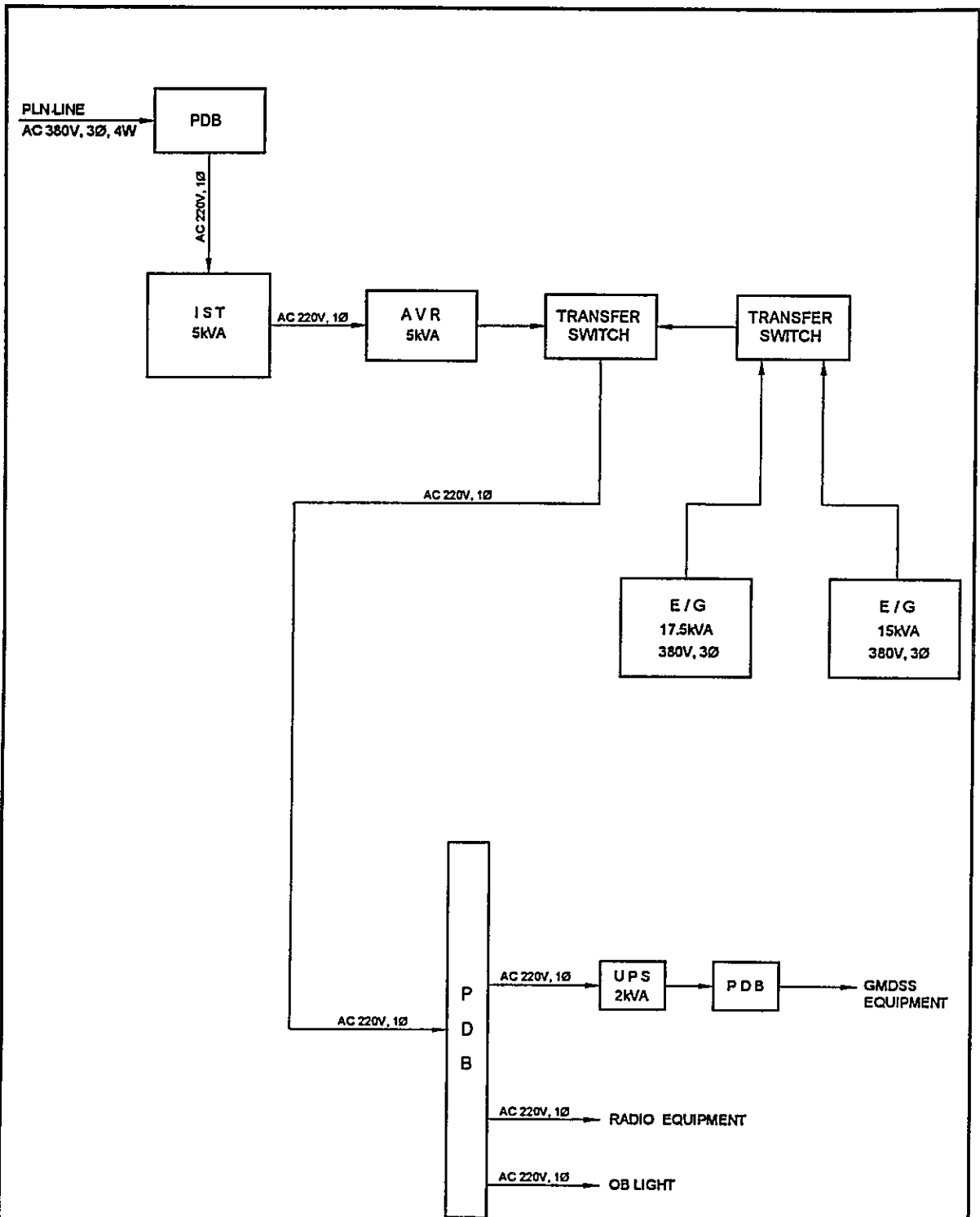
LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- E/G ENGINE GENERATOR
- IST ISOLATION TRANSFORMER
- KVA KILO VOLT AMPERE
- PDB POWER DISTRIBUTION BOARD

| | | |
|-------------------------------|---|-------------------|
| DATE July 02, 2001 | DRAWING TITLE E/G FLOOR LAYOUT FOR RX STATION | SHEET NO 1 / 1 |
| SCALE 1 : 50 | SITE NAME SEMARANG | |
| DIMENSION Millimeter | DRAWING NO. S, R, O, P, - S, M, R, - 0, 8, 7, - 4, R | |
| - PT. Aneka Asia Buana | | |

DRAWN BY AAB
 APPROVED BY JICA



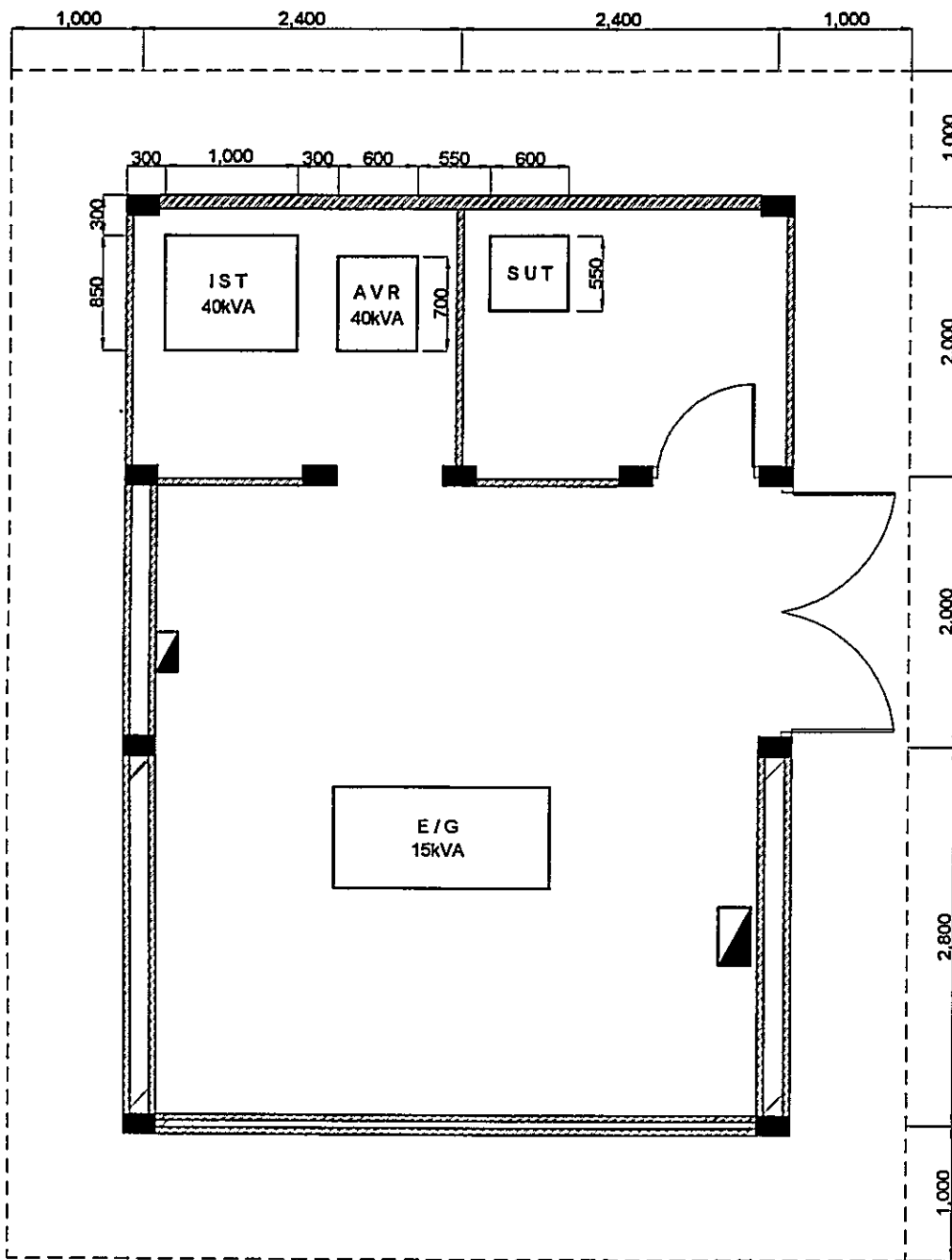


DRAWN BY AAB
 APPROVED BY JICA

LEGEND



- AC ALTERNATING CURRENT
- AVR AUTOMATIC VOLTAGE REGULATOR
- E/G ENGINE GENERATOR
- IST ISOLATION TRANSFORMER
- KVA KILO VOLT AMPERE
- PDB POWER DISTRIBUTION BOARD
- UPS UNINTERRUPTED POWER SUPPLY
- V VOLT
- W WIRE

| | | |
|-------------------------------|---|-----------------|
| DATE July 02, 2001 | DRAWING TITLE POWER BLOCK DIAGRAM FOR RX STATION | SHEET NO 1/1 |
| SCALE No Scale | SITE NAME SEMARANG | |
| DIMENSION Millimeter | DRAWING NO S, R, O, P, -, S, M, G, -, 0, 8, 7, -, 6, R | |
| - PT. Aneka Asia Buana | | |

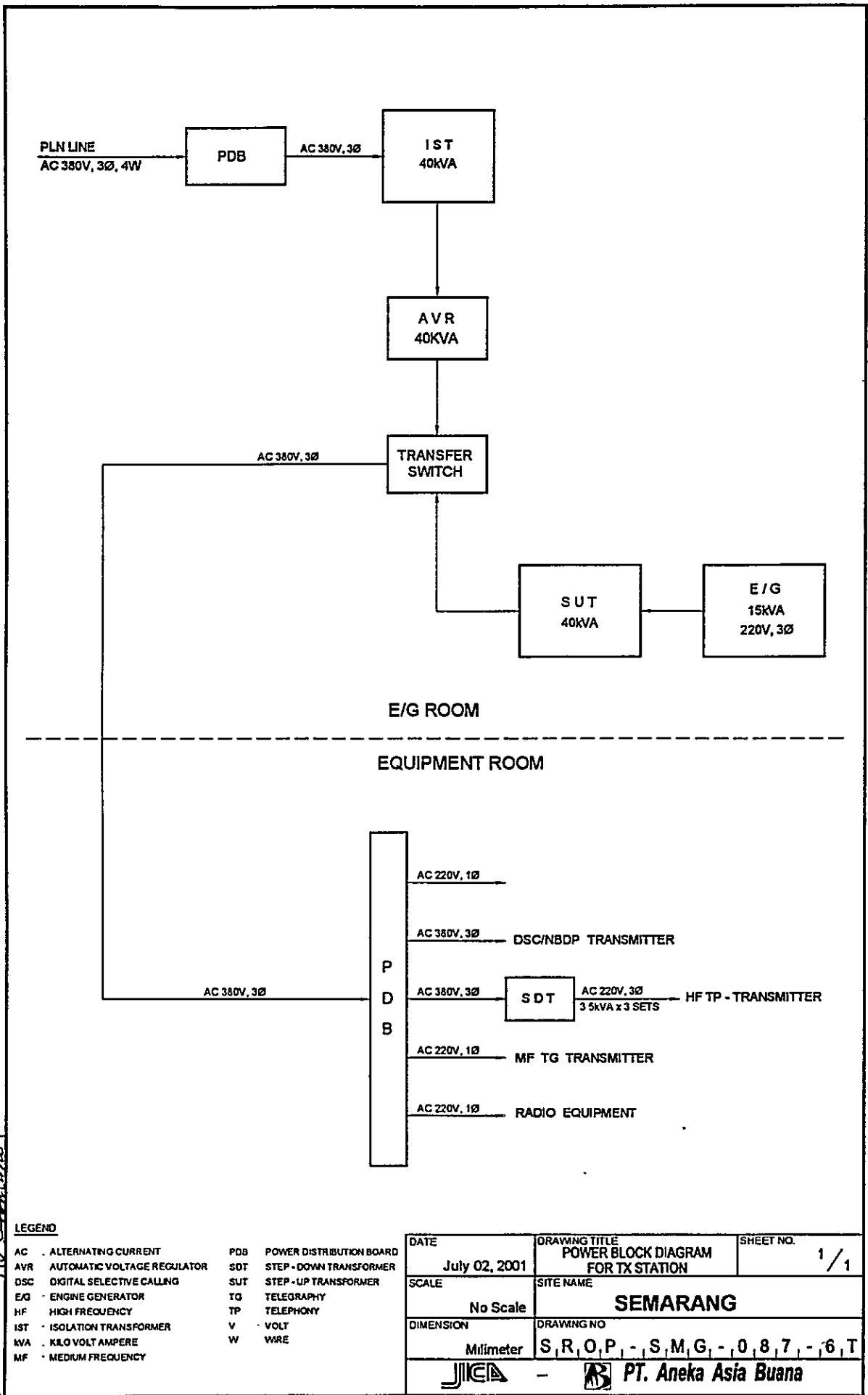


LEGEND

- AVR : AUTOMATIC VOLTAGE REGULATOR
- E/G : ENGINE GENERATOR
- IST : ISOLATION TRANSFORMER
- KVA : KILO VOLT AMPERE
- SUT : STEP - UP TRANSFORMER

| | | |
|---|--|-----------------|
| DATE July 02, 2001 | DRAWING TITLE E/G FLOOR LAYOUT FOR TX STATION | SHEET NO 1/1 |
| SCALE 1 : 50 | SITE NAME SEMARANG | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, -, S, M, R, -, 0, 8, 7, -, 4, T | |
|  -  PT. Aneka Asia Buana | | |

DRAWN BY AAB
 APPROVED BY JICA



DRAWN BY: *[Signature]*
 APPROVED BY: JICA *[Signature]*

| LEGEND | |
|--------|-----------------------------|
| AC | ALTERNATING CURRENT |
| AVR | AUTOMATIC VOLTAGE REGULATOR |
| DSC | DIGITAL SELECTIVE CALLING |
| E/G | ENGINE GENERATOR |
| HF | HIGH FREQUENCY |
| IST | ISOLATION TRANSFORMER |
| KVA | KILO VOLT AMPERE |
| MF | MEDIUM FREQUENCY |
| PDB | POWER DISTRIBUTION BOARD |
| SOT | STEP - DOWN TRANSFORMER |
| SUT | STEP - UP TRANSFORMER |
| TG | TELEGRAPHY |
| TP | TELEPHONY |
| V | VOLT |
| W | WIRE |

| | | |
|-------------------------|--|-----------|
| DATE | DRAWING TITLE | SHEET NO. |
| July 02, 2001 | POWER BLOCK DIAGRAM FOR TX STATION | 1 / 1 |
| SCALE | SITE NAME | |
| No Scale | SEMARANG | |
| DIMENSION | DRAWING NO | |
| Millimeter | S, R, O, P, - S, M, G, - 0, 8, 7, - 6, T | |
| - PT. Aneka Asia Buana | | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station Tegal (Coast Station No. 88)

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|-------|-------|-----|----|
| SUMMARY OF COAST STATION | SITE | TEGAL | | |
| | CLASS | 4th-A | NO. | 88 |

| 1. LOCATION | | | | | |
|-------------|----------------------|--------|-----|----------------|---------------|
| Station | Address | Tel. | Fax | Longitude | Latitude |
| TX/RX | Jl. Kesatrian No. 15 | 353107 | | 109° 08' 05" E | 06° 51' 01" S |

| 2. GENERAL CONDITIONS | | | | | |
|-----------------------|-------------------------------------|---|---|---|------------|
| Moving from Jakarta | | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air | to Semarang [Taking time: 1:00 hr.] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Car | to Tegal [Taking time: 4:00 hr.] | <input checked="" type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | |
| | | | <input type="checkbox"/> None | | |

| 3. CONDITIONS OF STATION | Refer to attached drawing |
|--------------------------|---------------------------|
|--------------------------|---------------------------|

| 3.1 Site Conditions | | | | | |
|--|--|------------------------------------|---|-------------------------------------|--|
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system | |
| <input checked="" type="checkbox"/> Flat | <input checked="" type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes | No |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> | <input type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input checked="" type="checkbox"/> | <input type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input checked="" type="checkbox"/> | <input type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> Lightning system |
| Altitude | M | | Telephone Lines | <input type="checkbox"/> | <input type="checkbox"/> Feeder Cable Way |
| Land area | 550.00 m ² | | <input checked="" type="checkbox"/> 1 Lines | <input checked="" type="checkbox"/> | <input type="checkbox"/> City water |
| 3.2 Building Conditions | | | 3.3 Power Source | | |
| Constructions | | PLN Source | E/G | Existing Power Conditions | |
| Num. of story | One | Voltage | 220 V | 220 V | Good Bad |
| Structure | Concrete | Phase | 1 | 1 | <input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System |
| Type of roof | Asbestos | Wire | 2 | 2 | <input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G |
| Type of ceiling | Board | kVA | 4,4 | 3 | <input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR |
| Type of wall | Brick | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | Mortar | Fluctuations | V ± % | | Day tank |
| Flooring | Tile | Availability of power per day | 24 Hours | 24 Hours | 20 Liter |
| Room Area (m ²) | | Power interruption /month | 4 Times | E/G Stand-by System | |
| Operation room | 102.00 | Total interpt. hours /month | 8 Hours | <input checked="" type="checkbox"/> | Single System |
| E / G room | 72.00 | Max. interpt. hours at once | 2 Hours | <input type="checkbox"/> | Dual System |
| Remark | | | | | |

| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
|--|-------------------------------------|--|--|-------------------------|-------|----------|--------|---------|
| Actions taken in equipment failure | | | | | | | | |
| Restoration flow | Repaired by himself | | | Chief | | TX/RX | | |
| Examples of major failure | Aged equipment | | | Operator (skilled) | | 4 (1) | | () |
| Sufficiency of spares | | | | Technician (skilled) | | () | | () |
| Records of damages | | Environmental Conditions | | Administrator | | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> External noises | Total | | 5 | | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> Air pollution | | | | | |
| <input checked="" type="checkbox"/> Other calamity | Aged equipment | | | | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | Pre | II | Surabaya | | |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | Pre | II | Jakarta | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input checked="" type="checkbox"/> Not capable | | | | | |

| | | | | |
|---------------------------------|--------------|--------------|------------|----|
| SUMMARY OF COAST STATION | SITE | TEGAL | | |
| | CLASS | 4th-A | NO. | 88 |

6. STATISTICAL COMMUNICATION TRAFFIC DATA

| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
|------------------------|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

7. COMMENTS

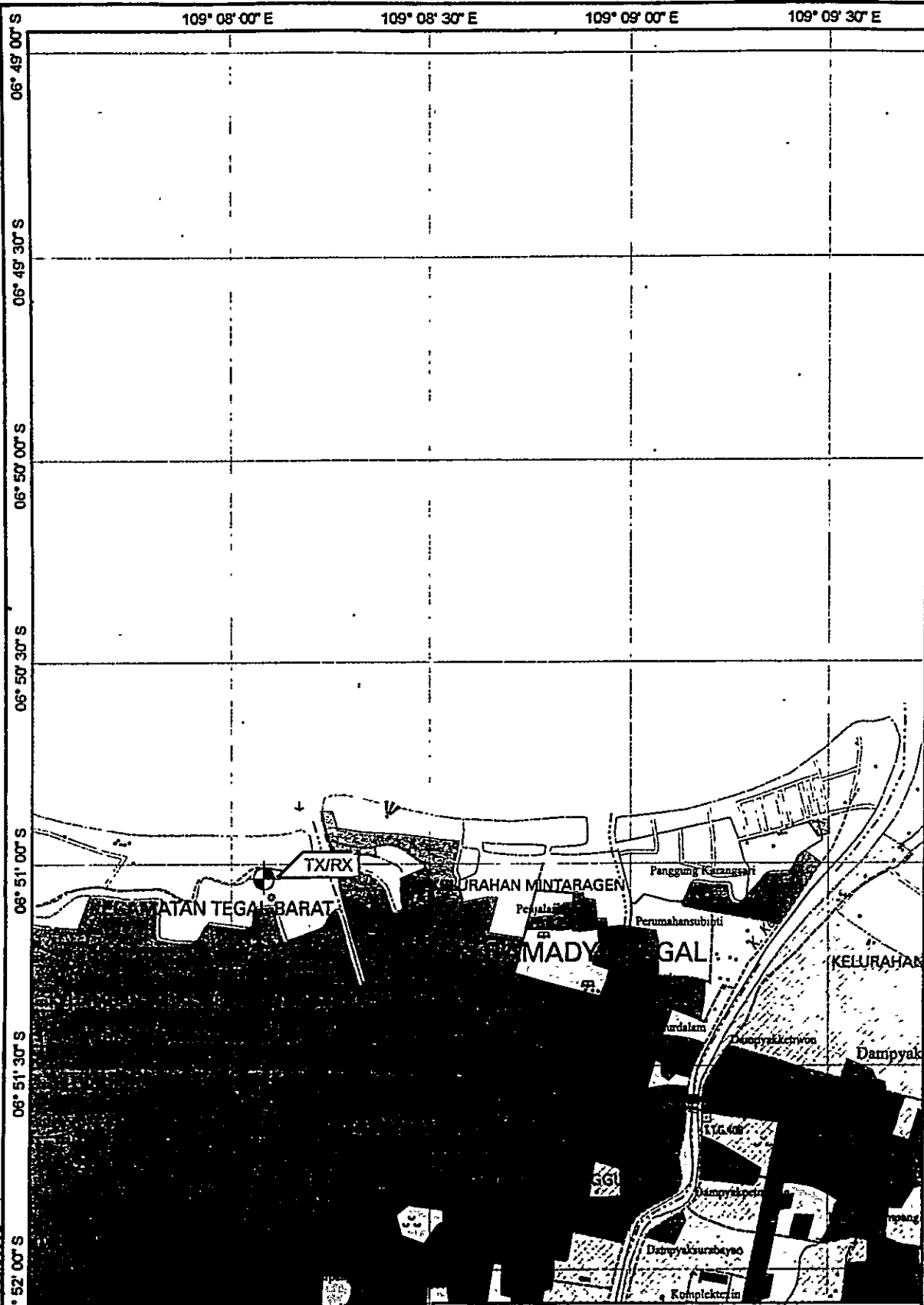
| | |
|-------------------|--|
| Suggestion | |
| Remarks | |

INVENTORY

Site Name: Tegal

TGL-088- (1 / 1)

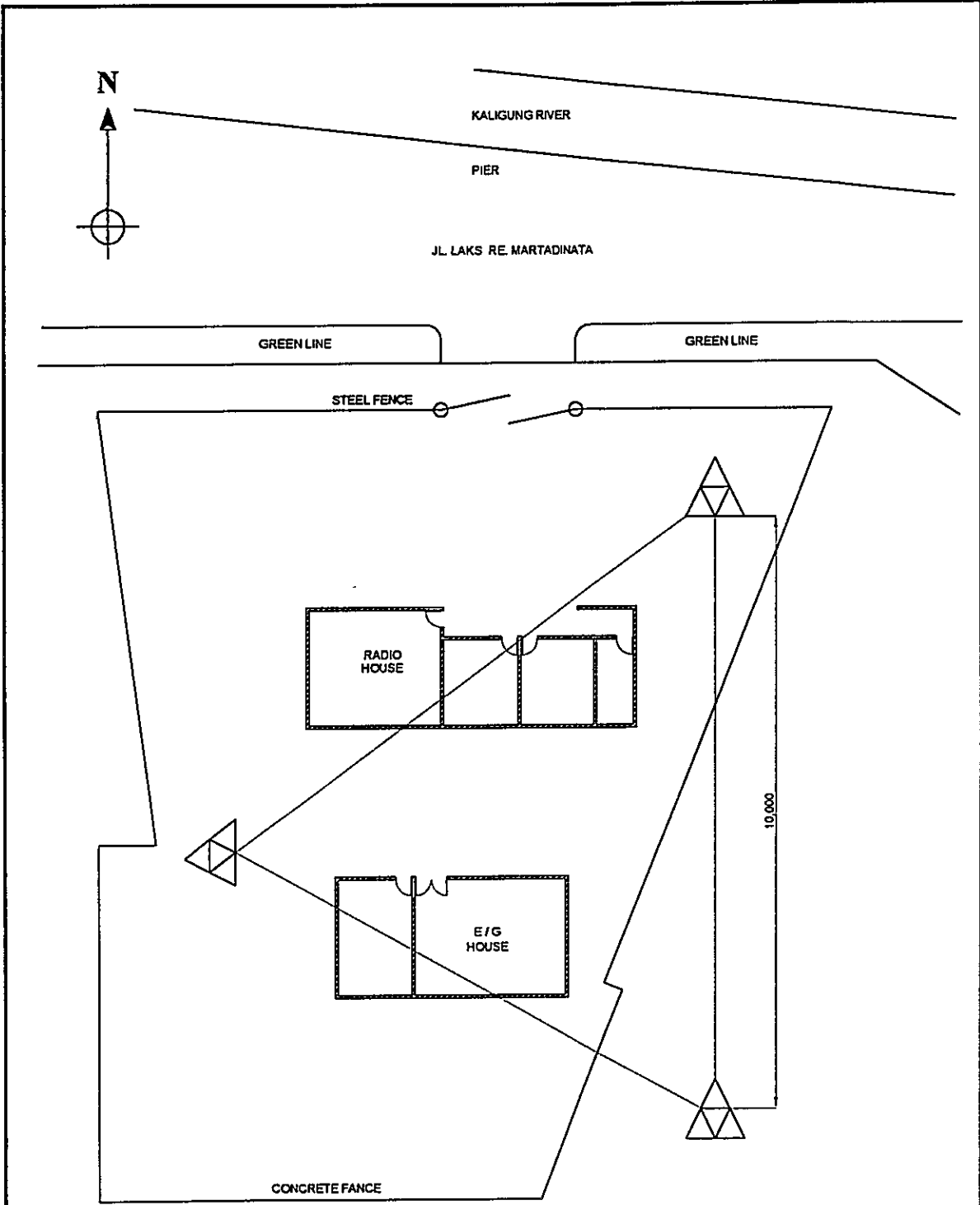
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|-----------------------------------|----------|-----------|--------------|------|-----------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | | Transmitter | NS-11A | 5320,046 | Furuno | 1978 | | | Damaged |
| 2 | | SSB Transceiver | FM-400 | 245371 | Furuno | 1989 | | | Damaged |
| 3 | | HF Transceiver | 130M | 7732 | Australia | 1972 | | | Damaged |
| 4 | | PYE/SSB | JSB-161 | BS-248 | JRC | 1989 | | | Good |
| 1-2 | | SSB All Band | | | | | | | Good |
| 1 | | Receiver | NRD-11E | | JRC | | | | |
| 2 | | Receiver | | | | | | | |
| 2 | | Tower & Antenna System | | | | | | | |
| 2-1 | | Tower & Mast | | | | | | | |
| 1 | | Turn Antenna Tower | | | INTI | | | | Good |
| 2-2 | | Antenna System | | | | | | | |
| 1 | | Long Wire Antenna | | | | | | | Good |
| 2 | | Dipole Antenna | | | | | | | Good |
| 3 | | Multiband Dipole Antenna (1) | | | | | | | Good |
| 3 | | Power Supply Equipment | | | | | | | |
| 3-1 | | UPS & AVR System | | | | | | | |
| 1 | | Power Supply 30A | NBD-510 | BS24891 | JRC | | | | Good |
| 2 | | Power Supply 10A | CA-1010S | | Carlton | | | | Good |
| 3 | | RTVC Protection 30A | PV-4010 | | | | | | Good |
| 3-2 | | Engine Generator | | | | | | | |
| 1 | | Genset 1,5KVA 220/240V | NS-72 | | HATZ | | | | Good |
| 4 | | Measuring Equipment | | | | | | | |
| 1 | | Mega Cycle | | | | | | | |
| 2 | | Signal Verfolger | | | | | | | |
| 3 | | Square Oscillator | | | | | | | |
| 4 | | Prüfgerat Semites II | | | | | | | |
| 5 | | AVO Meter | | | | | | | |
| 6 | | Mejer/Testing Sect | | | | | | | |



DRAWN BY AAB
 APPROVED BY JICA:

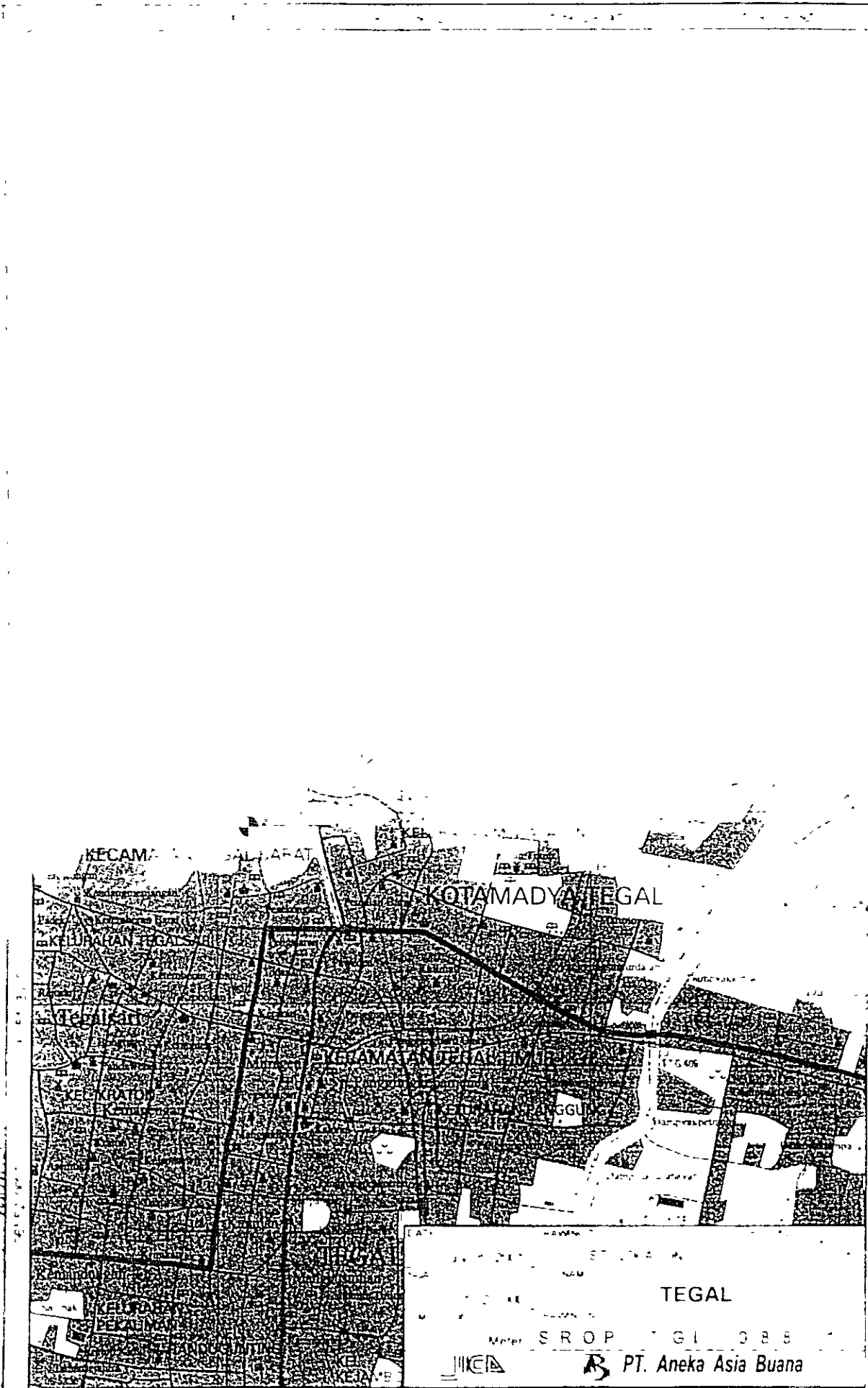
06° 52' 00" S
 06° 51' 30" S
 06° 51' 00" S
 06° 50' 30" S
 06° 50' 00" S
 06° 49' 30" S
 06° 49' 00" S

| | | |
|---------------|---------------------------------------|-----------|
| DATE | DRAWING TITLE | SHEET NO. |
| July 05, 2001 | SITE LOCATION | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 25,000 | TEGAL | |
| DIMENSION | DRAWING NO. | |
| Meter | S, R, O, P, - T, G, L, - 0, 8, 8, - 1 | |
| JICA | PT. Aneka Asia Buana | |



DRAWN BY AAB
 APPROVED BY JICA:

| | | |
|-------------------------------|---|-------------------|
| DATE June 28, 2001 | DRAWING TITLE ANTENNA LAYOUT | SHEET NO 1 / 1 |
| SCALE 1 : 100 | SITE NAME TEGAL | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, - T, G, L, - 0, 8, 8, - 2, | |
| - PT. Aneka Asia Buana | | |



KECAMATAN BAHARAT

KOTAMADYA TEGAL

KEKURAHAN TEGAL

KEKURAHAN

KEKURAHAN ANTERASARI

KEKURAHAN

KEKURAHAN

KEKURAHAN

TEGAL
 SROP
 PT. Aneka Asia Buana

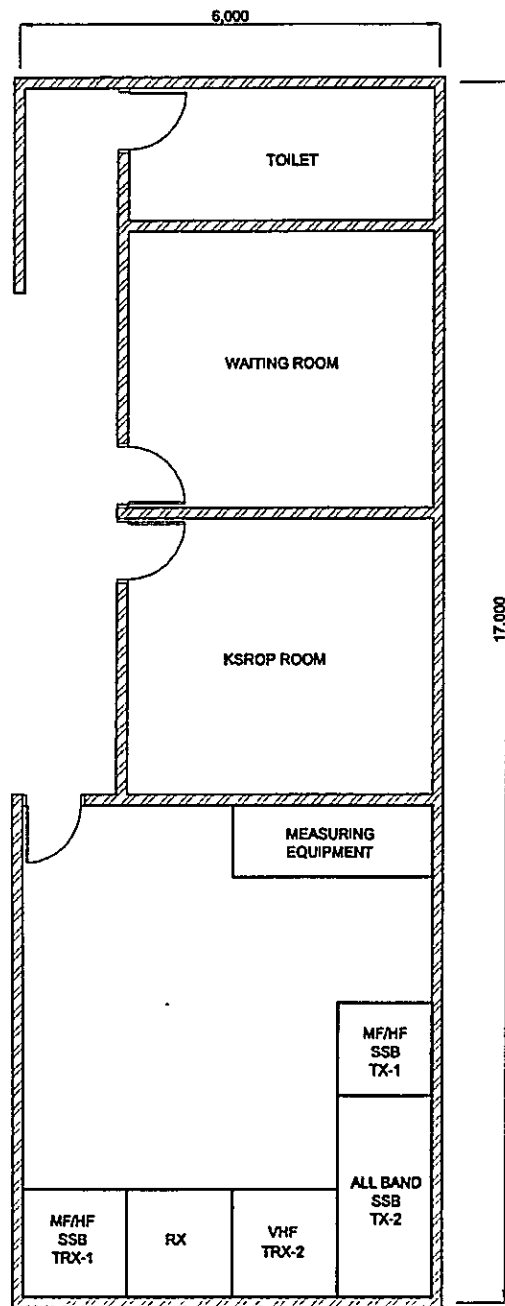
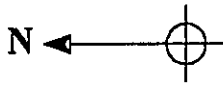
1
A

Handwritten text on the left margin, possibly a date or reference number.

TEGAS

KTB



PT Aneka Asia B...

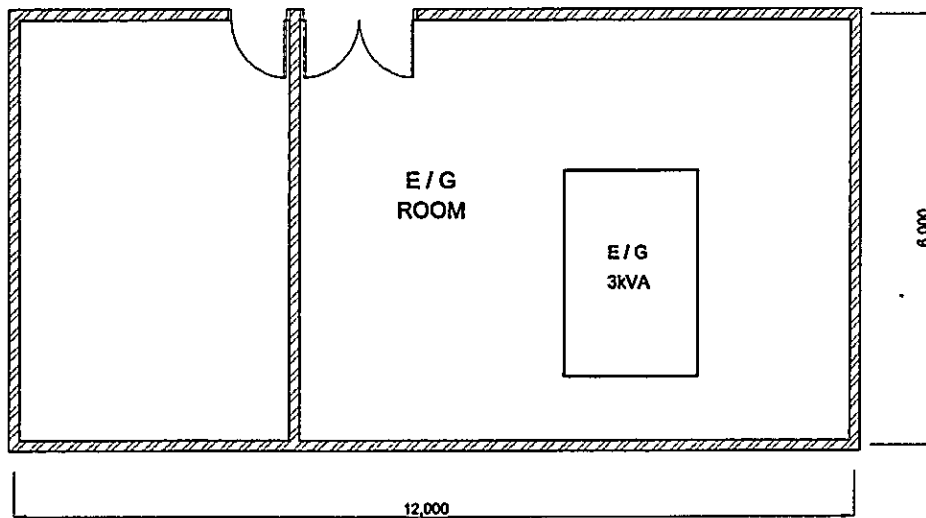


LEGEND

- HF HIGH FREQUENCY
- MF MEDIUM FREQUENCY
- RX RECEIVER (ING)
- TX TRANSMITTER (ING)
- TRX TRANSCEIVER (ING)

DRAWN BY: AAB
 APPROVED BY: JICA


| | | |
|---|---|-----------------|
| DATE June 28, 2001 | DRAWING TITLE EQUIPMENT FLOOR LAYOUT | SHEET NO 1/1 |
| SCALE 1:100 | SITE NAME TEGAL | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, - T, G, L, - 0, 8, 8, - 3, | |
|  -  PT. Aneka Asia Buana | | |





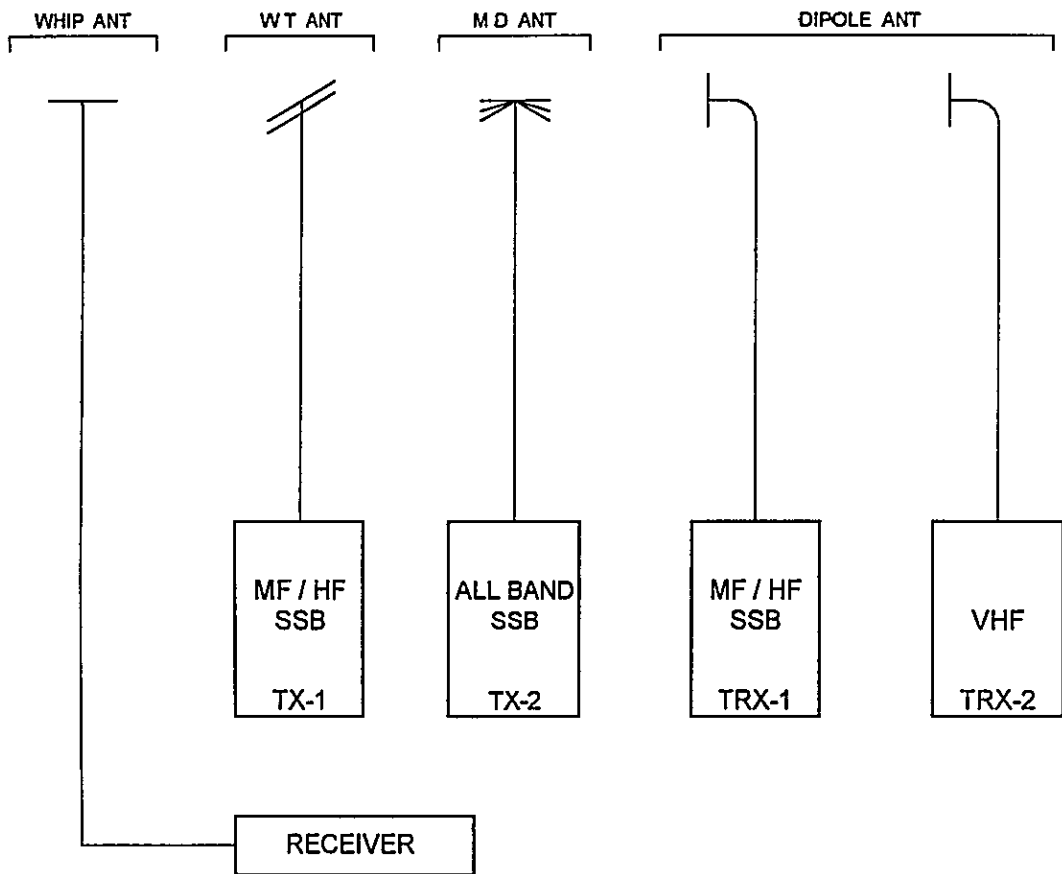
LEGEND

E/G ENGINE GENERATOR
 KVA KILO VOLT AMPERE

APPROVED BY JICA

 DRAWN BY AAB


| | | |
|---|--|-----------------|
| DATE June 28, 2001 | DRAWING TITLE E/G ROOM LAYOUT | SHEET NO 1/1 |
| SCALE 1 : 100 | SITE NAME TEGAL | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, - T, G, L, - 0, 8, 8, - 4 | |
|  -  PT. Aneka Asia Buana | | |

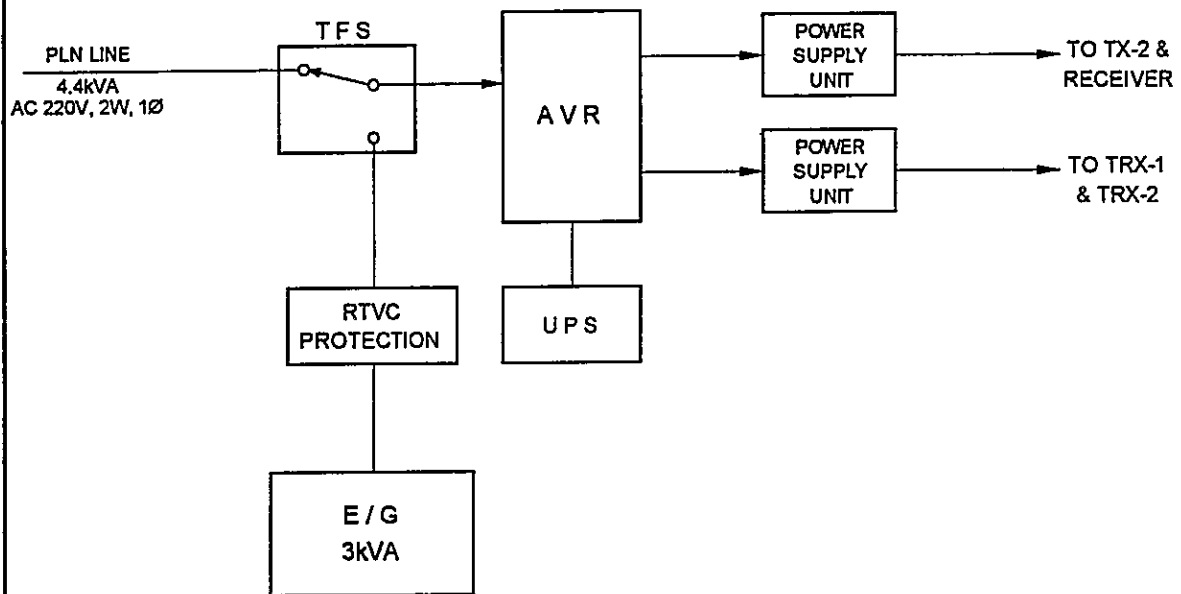


LEGEND

- ANT : ANTENNA
- HF : HIGH FREQUENCY
- MD : MULTI DOUBLET
- MF : MEDIUM FREQUENCY
- TX : TRANSMITTER (ING)
- TRX : TRANSCEIVER (ING)
- WT : WIRE T TYPE

APPROVED BY JICA
 DRAWN BY AAB

| | | |
|-------------------------|---|-------------------|
| DATE July 27, 2001 | DRAWING TITLE SYSTEM BLOCK DIAGRAM | SHEET NO 1 / 1 |
| SCALE No Scale | SITE NAME TEGAL | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, - T, G, L, - 0, 8, 8, - 5, | |
| - PT. Aneka Asia Buana | | |



DRAWN BY AAB
 APPROVED BY JICA:

LEGEND

- AC ALTERNATING CURRENT
- AVR AUTOMATIC VOLTAGE REGULATOR
- E/G ENGINE GENERATOR
- kVA KILO VOLT AMPERE
- TX TRANSMITTER (ING)
- TRX TRANSCEIVER (ING)
- UPS UNINTERRUPTED POWER SUPPLY
- V VOLT
- W WIRE
- Ø PHASE

| | | |
|-------------------------|---|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 27, 2001 | POWER BLOCK DIAGRAM | 1 / 1 |
| SCALE | SITE NAME | |
| No Scale | TEGAL | |
| DIMENSION | DRAWING NO | |
| Milimeter | S, R, O, P, -, T, G, L, -, 0, 8, 8, -, 6, | |
| - PT. Aneka Asia Buana | | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-A Class Coast Station Pekalongan (Coast Station No. 89)

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|--------------|-------------------|------------|-----------|
| SUMMARY OF COAST STATION | SITE | PEKALONGAN | | |
| | CLASS | 4th-A | NO. | 89 |

| | | | | | |
|--------------------|-------------------------------|-------------|------------|------------------|-----------------|
| 1. LOCATION | | | | | |
| Station | Address | Tel. | Fax | Longitude | Latitude |
| TX/RX | Jl. Pantaisari II, Pekalongan | 024-434612 | | 109° 41' 30" E | 06° 51' 35" S |

| | | | | | |
|------------------------------|---------------------------------------|---|---|---|-------------------|
| 2. GENERAL CONDITIONS | | | | | |
| Moving from Jakarta | | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air | to Semarang [Taking time: 1.00 hr.] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Car | to Pekalongan [Taking time: 2.00 hr.] | <input checked="" type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | |
| | | | <input type="checkbox"/> None | | |

| | |
|---------------------------------|---------------------------|
| 3. CONDITIONS OF STATION | Refer to attached drawing |
|---------------------------------|---------------------------|

| | | | |
|--|--|------------------------------------|---|
| 3.1 Site Conditions | | | |
| Topography | Nature of Soil | | Past disaster of site |
| <input checked="" type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input checked="" type="checkbox"/> Flood |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide |
| <input type="checkbox"/> Hill-top | <input checked="" type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | |
| Altitude | M | | Telephone Lines |
| Land area | 1,000 m² | | <input checked="" type="checkbox"/> 1 Lines |

| | | | | |
|----------------------------------|----------|----------------------------------|------------|--|
| 3.2 Building Conditions | | 3.3 Power Source | | |
| Constructions | | PLN Source | E/G | Existing Power Conditions |
| Num. of story | One | Voltage | 220 V | Good Bad |
| Structure | Concrete | Phase | 1 | <input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System |
| Type of roof | Asbestos | Wire | 2 | <input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G |
| Type of ceiling | Asbestos | kVA | 3.5 | <input type="checkbox"/> <input type="checkbox"/> Operations of AVR |
| Type of wall | Brick | Quality of PLN source | | Capacity of fuel for engine |
| Wall finish | Mortar | Fluctuations | V ± % | Day tank |
| Flooring | Tile | Availability of power per day | Hours | Main tank |
| Room Area (m²) | | Power interruption /month | | E/G Stand-by System |
| Operation room | 25.00 | Total interpt. hours /month | Hours | <input checked="" type="checkbox"/> Single System |
| E / G room | 20.00 | Max. interpt. hours at once | Hours | <input type="checkbox"/> Dual System |
| Remark | | | | |

| | | | | | | | | |
|---|---|--|--|--------------------------------|---------|----------|--------|---------|
| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
| Actions taken in equipment failure | | | | TX/RX | | | | |
| Restoration flow | Repaired by himself/send to Semarang | | | Chief | 1 | | | |
| Examples of major failure | Aged equipment | | | Operator (skilled) | 2 () () | | | |
| Sufficiency of spares | Un-available | | | Technician (skilled) | 1 () () | | | |
| Records of damages | | Environmental Conditions | | Administrator | | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | External noises | | | | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Air pollution | | | | |
| <input type="checkbox"/> Other calamity | | | | Total 4 | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | Oru | Oru | Surabaya | | 2 |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 4 Number of Operator | <input checked="" type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input checked="" type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |

| | | | | |
|---------------------------------|--------------|-------------------|------------|-----------|
| SUMMARY OF COAST STATION | SITE | PEKALONGAN | | |
| | CLASS | 4th-A | NO. | 89 |

6. STATISTICAL COMMUNICATION TRAFFIC DATA

| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
|------------------------|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

7. COMMENTS

| | |
|-------------------|--|
| Suggestion | |
| Remarks | |

INVENTORY

Site Name: Pekalongan

PKG-089- (1 / 1)

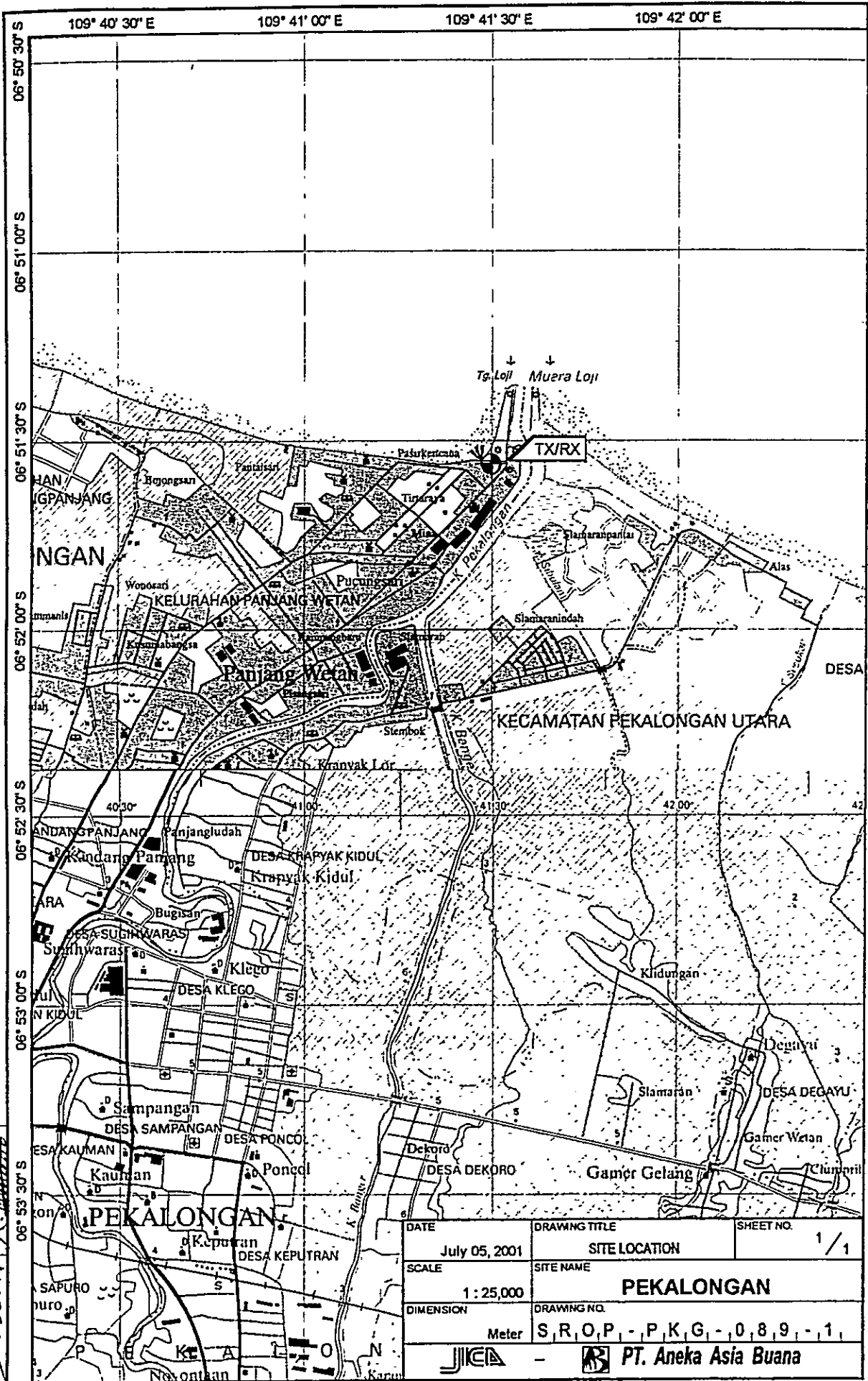
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|-------------------------------|---------|-----------|--------------|------|-----------|--------------------|-------------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | | Transmitter | | | | | | | |
| 1 | | SSB Transmitter | FS-1000 | 2953 | Furuno | 1987 | | | Good |
| 2 | | SSB Transmitter | FS-1000 | 5990 | Furuno | 1987 | | | Good |
| 3 | | SSB Transmitter | FS-1000 | 133027 | Furuno | 1987 | | | Not So Good |
| 2 | | Power Supply Equipment | | | | | | | |
| 2-1 | | UPS & AVR | | | | | | | |
| 1 | | Power Supply | | 133027 | Vedio | | | | Not So Good |
| 2 | | SWR Meter / MALDOL | | HS 260 | Vedio | | | | Good |
| 2-2 | | Engine Generator | | | | | | | |
| 1 | | Engine Generator (3kVA) | | | | | | | Good |

STATUS OF TROUBLES

SITE NAME : PEKALONGAN

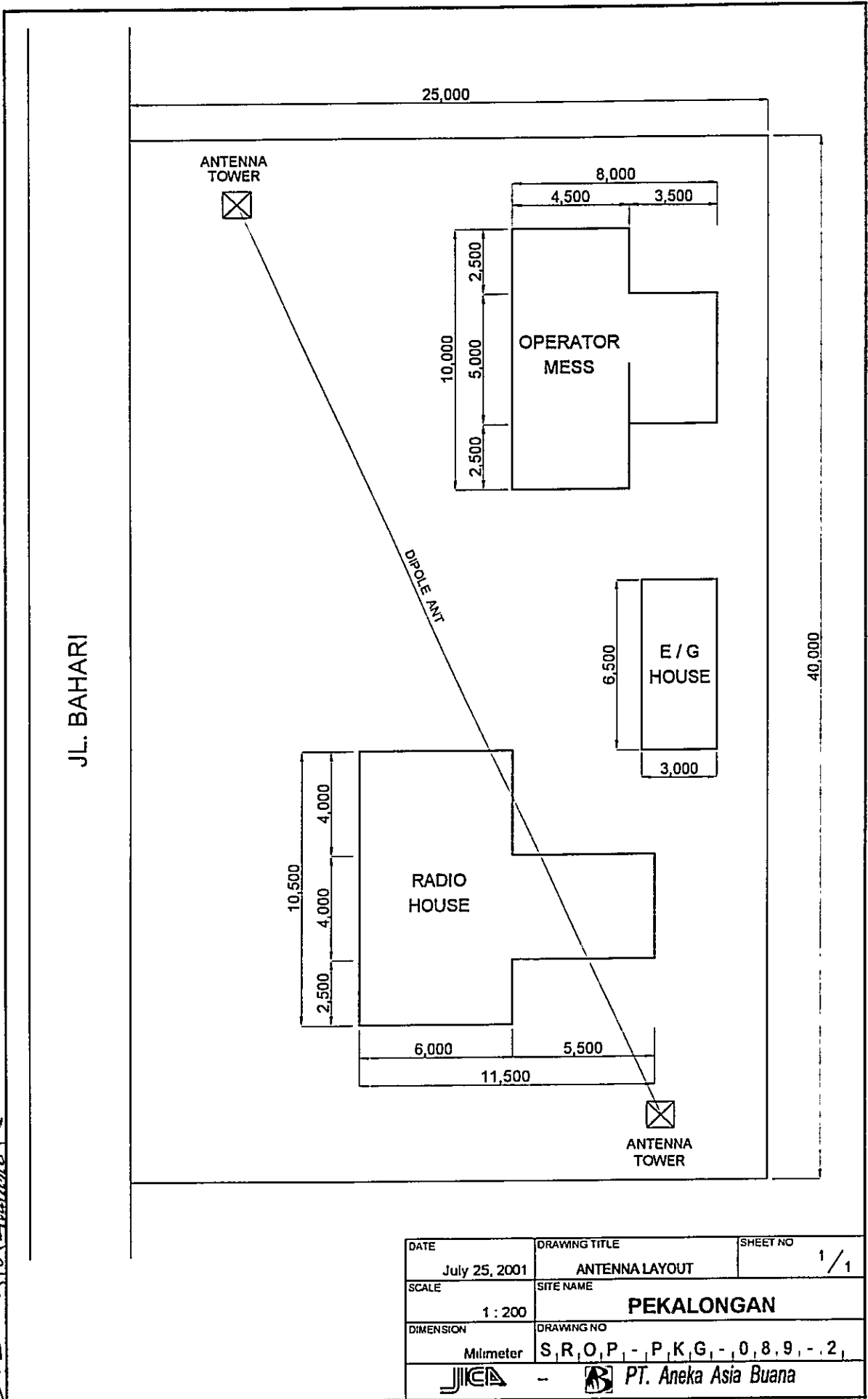
PKG-89-(1/1)

| | | | |
|--|--|---|-------------------|
| Item / Equipment | SSB Transceiver / - | | |
| Manufacturer | Furuno | | |
| Manufacturer in year | 1987 | | |
| Defective panel / unit | Power Amplifier disturbance | | |
| Details of Trouble Status | Cause doe to: | | Urgency of Repair |
| | <input checked="" type="checkbox"/> Aging | | |
| | <input type="checkbox"/> Lightning | | |
| | <input type="checkbox"/> Corrosion | | |
| | <input checked="" type="checkbox"/> Lack of Spares | | |
| | <input type="checkbox"/> Others | | |
| Repairing to be: | | | |
| | | <input checked="" type="checkbox"/> Immediacy | |
| | | <input type="checkbox"/> By next year budget | |
| | | <input type="checkbox"/> By next project | |
| | | <input type="checkbox"/> Unnecessary | |
| <u>General Comment for Maintenance:</u> | | | |
| Regarding Transceiver for Pekalongan Coast Station has been aged and still using the Crystal System Request for new radio equipment | | | |

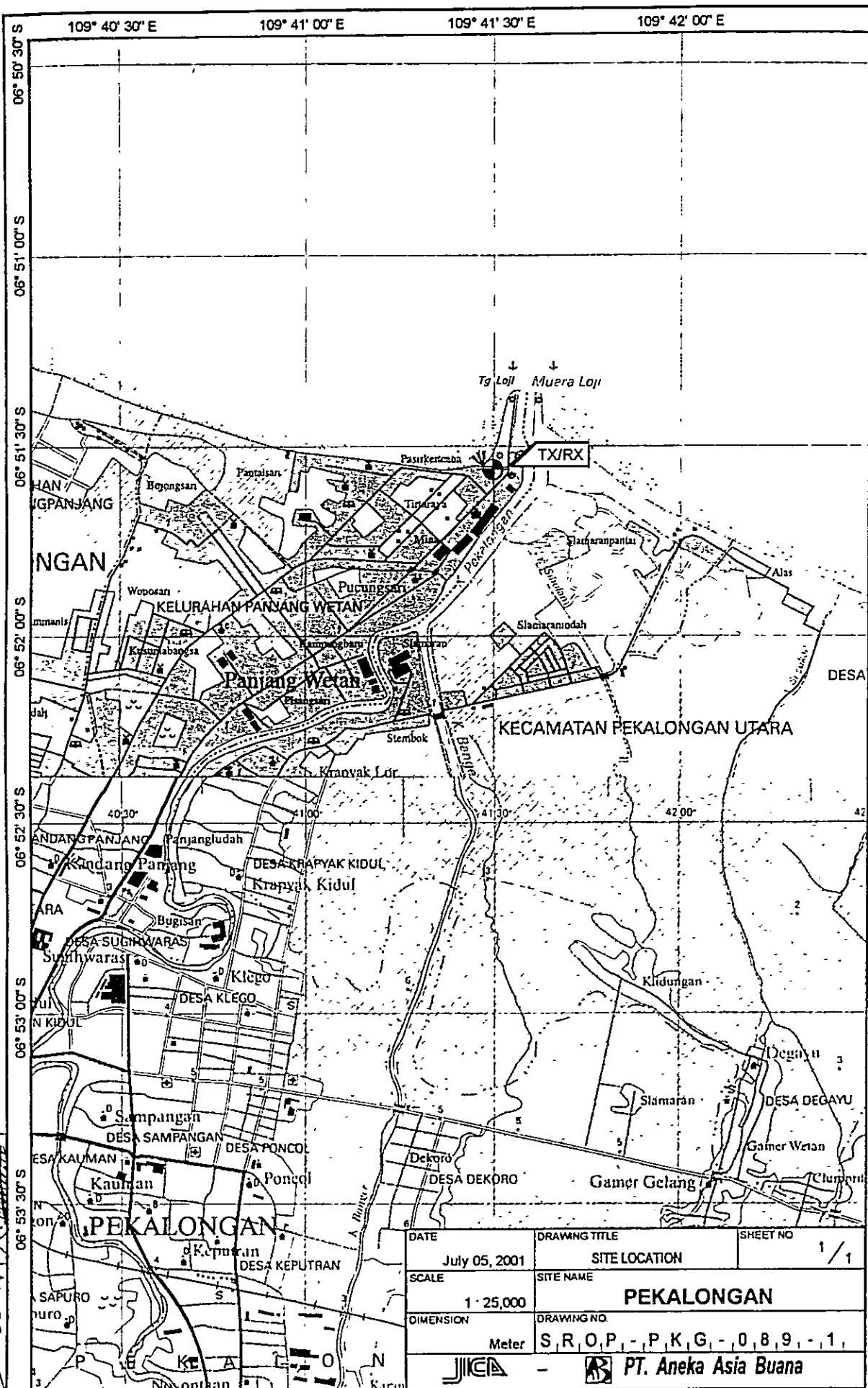


APPROVED BY JICA
 DRAWN BY AAB

| | | | | | |
|-----------|---------------|---------------|--|-----------|-------|
| DATE | July 05, 2001 | DRAWING TITLE | SITE LOCATION | SHEET NO. | 1 / 1 |
| SCALE | 1 : 25,000 | SITE NAME | PEKALONGAN | | |
| DIMENSION | Meter | DRAWING NO. | S, R, O, P, - P, K, G, - 0, 8, 9, - 1, | | |
| | | | | | |



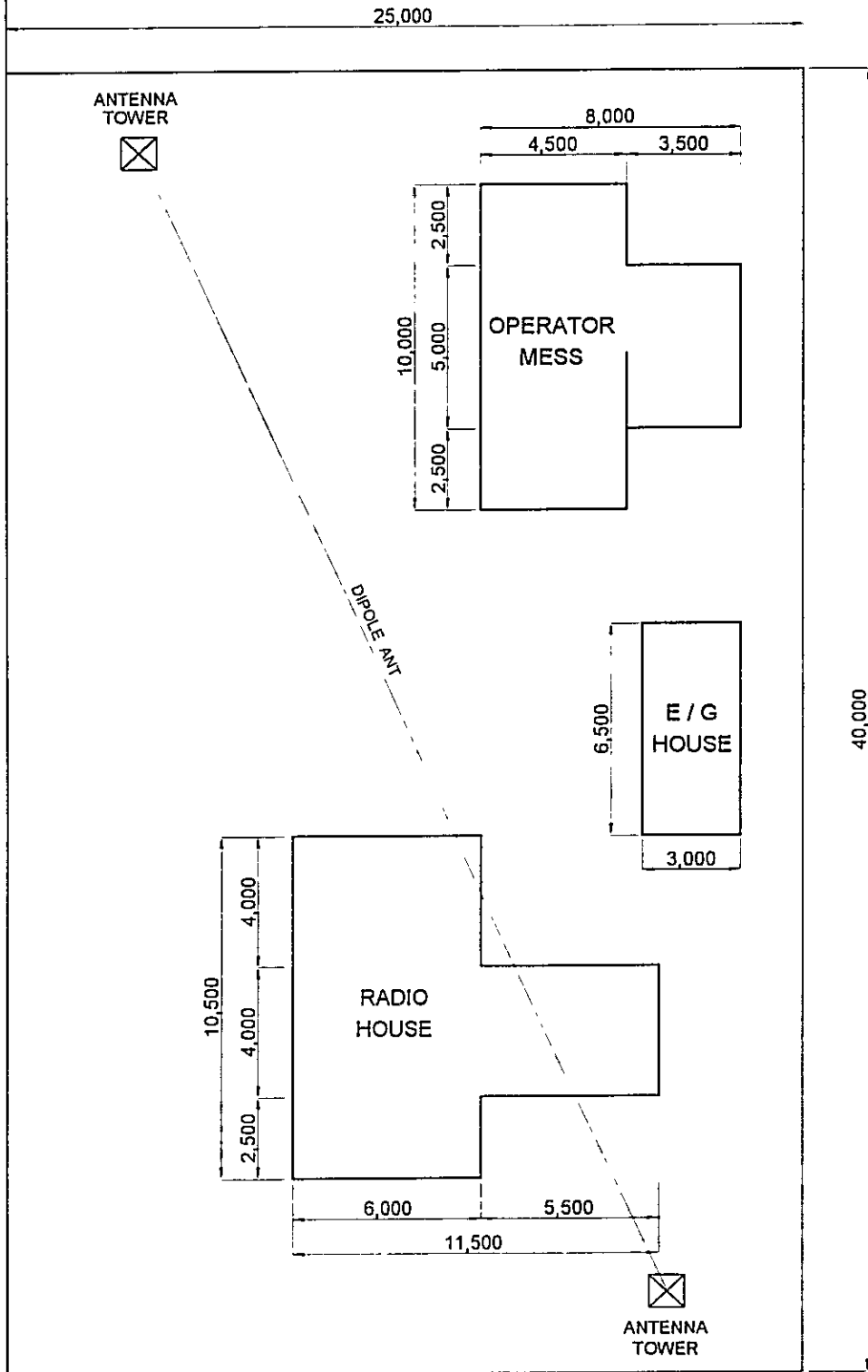
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 APPROVED BY JICA.



APPROVED BY JICA
 DRAWN BY AAB

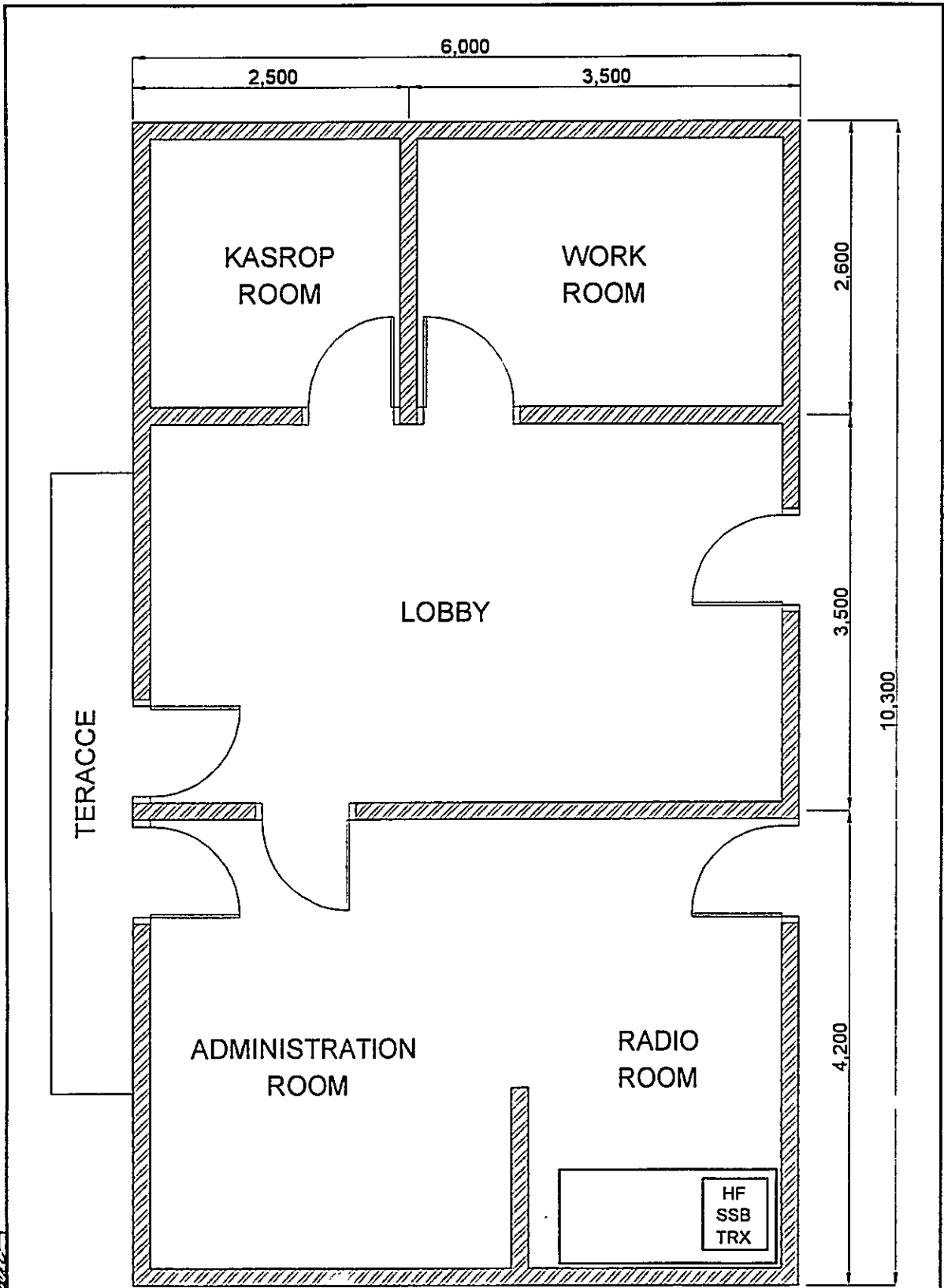
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| DATE | July 05, 2001 | DRAWING TITLE | SITE LOCATION | SHEET NO | 1 / 1 |
| SCALE | 1 : 25,000 | SITE NAME | PEKALONGAN | | |
| DIMENSION | Meter | DRAWING NO. | S, R, O, P, - P, K, G, - 0, 8, 9, - 1, | | |
| | | | | | |

JL. BAHARI



DRAWN BY AAB
 APPROVED BY JICA

| | | |
|-------------------------|--|-----------------|
| DATE July 25, 2001 | DRAWING TITLE ANTENNA LAYOUT | SHEET NO 1/1 |
| SCALE 1 200 | SITE NAME PEKALONGAN | |
| DIMENSION Milimeter | DRAWING NO S,R,O,P - P,K,G - 0,8,9 - 2, | |
| - PT. Aneka Asia Buana | | |

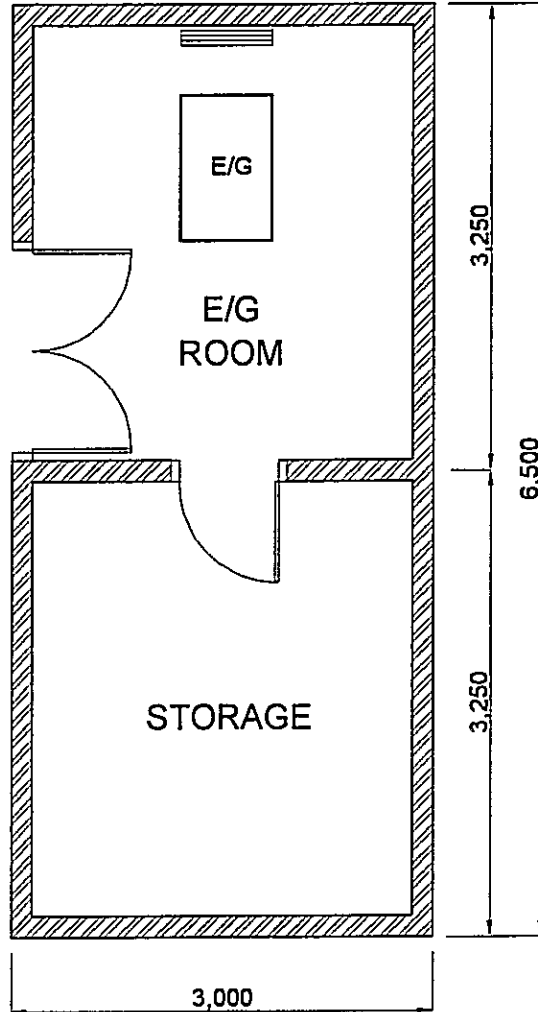


LEGEND

HF : HIGH FREQUENCY
 TRX : TRANSCEIVER (ING)

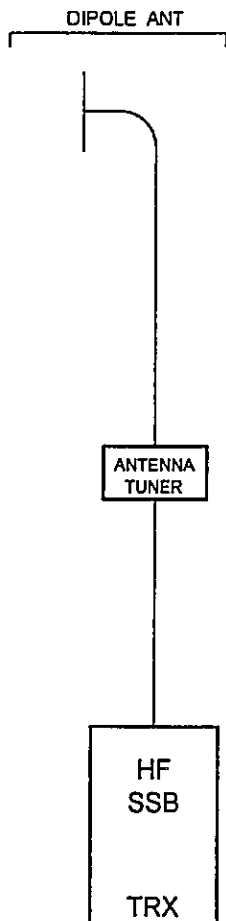
| | | |
|---------------|---|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 25, 2001 | EQUIPMENT FLOOR LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 50 | PEKALONGAN | |
| DIMENSION | DRAWING NO | |
| Millimeter | S, R, O, P, -, P, K, G, -, 0, 8, 9, -, 3, | |
| | | |

DRAWN BY AAB
 APPROVED BY JICA



DRAWN BY AAB
 APPROVED BY JICA

| | | |
|---------------|--|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 25, 2001 | E/G FLOOR LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 50 | PEKALONGAN | |
| DIMENSION | DRAWING NO | |
| Milimeter | S, R, O, P, - , P, K, G, - , 0, 8, 9, - , 4, | |
| | | |

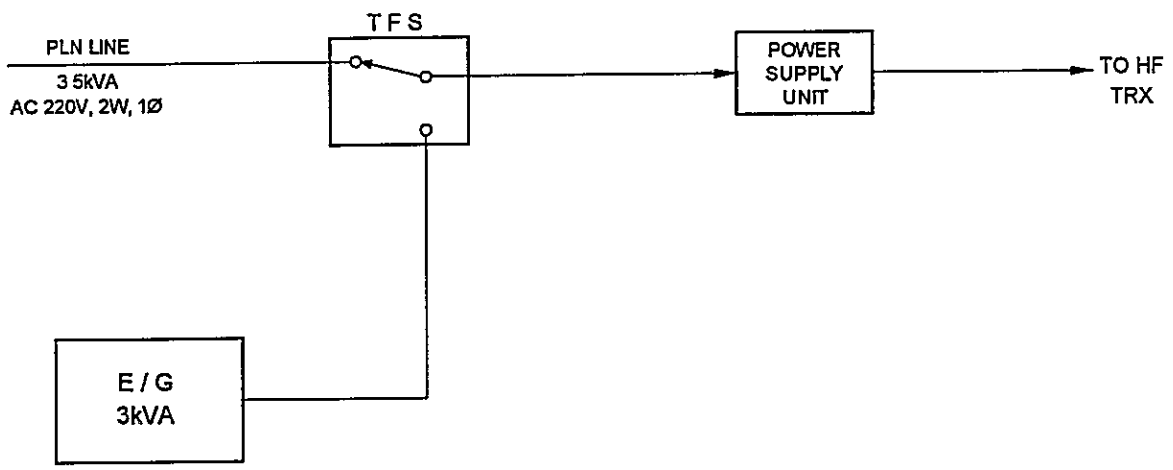


LEGEND

ANT : ANTENNA
 HF : HIGH FREQUENCY
 TRX : TRANSCEIVER (ING)

APPROVED BY JICA
 DRAWN BY AAB

| | | |
|-------------------------|---|-------------------|
| DATE August 16, 2001 | DRAWING TITLE SYSTEM BLOCK DIAGRAM | SHEET NO 1 / 1 |
| SCALE No Scale | SITE NAME PEKALONGAN | |
| DIMENSION Milimeter | DRAWING NO S, R, O, P, -, P, K, G, -, 0, 8, 9 - , 5, | |
| - PT. Aneka Asia Buana | | |



DRAWN BY AAR
 APPROVED BY JICA: *[Signature]*

- LEGEND**
- AC ALTERNATING CURRENT
 - E/G : ENGINE GENERATOR
 - kVA KILO VOLT AMPERE
 - TFS : TRANSFER SWITCH
 - TRX - TRANSCEIVER (ING)
 - V : VOLT
 - W : WIRE
 - Ø PHASE

| | | |
|-------------------------|---|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 27, 2001 | POWER BLOCK DIAGRAM | 1 / 1 |
| SCALE | SITE NAME | |
| No Scale | PEKALONGAN | |
| DIMENSION | DRAWING NO | |
| Milimeter | S, R, O, P, -, P, K, G, -, 0, 8, 9, -, 6, 1 | |
| - PT. Aneka Asia Buana | | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

**4th-A Class Coast Station
Karimun Jawa
(Coast Station No. 90)**

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|-------|--------------|-----|----|
| SUMMARY OF COAST STATION | SITE | KARIMUN JAWA | | |
| | CLASS | 4th-A | NO. | 90 |

| 1. LOCATION | | | | | |
|-------------|----------------------------|-------------|-----|----------------|---------------|
| Station | Address | Tel. | Fax | Longitude | Latitude |
| TX/RX | Jl. Pelabuhan Karimun Jawa | 0297-312181 | | 110° 25' 42" E | 05° 52' 44" S |

| 2. GENERAL CONDITIONS | | | | | |
|-----------------------|-------------------------------------|--|---|---|------------|
| Moving from Jakarta | | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air | to Semarang [Taking time: 1:00 hr.] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Ship | to K. Jawa [Taking time: 7:00 hr.] | <input type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | | <input checked="" type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | |
| | | | <input type="checkbox"/> None | | |

| 3. CONDITIONS OF STATION | | | | Refer to attached drawing | |
|--------------------------|--|--|--|---------------------------|--|
|--------------------------|--|--|--|---------------------------|--|

| 3.1 Site Conditions | | | | | |
|--|--|------------------------------------|---|--|----|
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system | |
| <input checked="" type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes | No |
| <input type="checkbox"/> Slope | <input checked="" type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> Antenna | |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input checked="" type="checkbox"/> Towers (Masts) | |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input type="checkbox"/> Grounding system | |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input checked="" type="checkbox"/> Lightning system | |
| Altitude | M | | Telephone Lines | <input type="checkbox"/> Feeder Cable Way | |
| Land area | 1,000 m ² | | <input checked="" type="checkbox"/> 1 Lines | <input type="checkbox"/> City water | |

| 3.2 Building Conditions | | | 3.3 Power Source | | | |
|-----------------------------|--------------|-------------------------------|------------------|---|---|-------|
| Constructions | | PLN Source | E/G | Existing Power Conditions | | |
| Num. of story | One | Voltage | 220 V | 220 V | Good Bad | |
| Structure | Concrete | Phase | 1 | 1 | <input checked="" type="checkbox"/> Power Supply System | |
| Type of roof | Asbestos | Wire | 2 | 2 | <input checked="" type="checkbox"/> Operations of E/G | |
| Type of ceiling | Plasterboard | kVA | | 3 | <input type="checkbox"/> Operations of AVR | |
| Type of wall | Brick | Quality of PLN source | | Capacity of fuel for engine | | |
| Wall finish | Mortar | Fluctuations | V ± % | | Day tank | Liter |
| Flooring | Tile | Availability of power per day | 06.00 Hours | Main tank | k Liter | |
| Room Area (m ²) | | Power interruption /month | | E/G Stand-by System | | |
| Operation room | 63.00 | Total interpt. hours /month | Hours | <input checked="" type="checkbox"/> Single System | | |
| E / G room | 19.50 | Max. interpt. hours at once | Hours | <input type="checkbox"/> Dual System | | |
| Remark | | | | | | |

| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
|---|--------------------------------------|--|--|-------------------------|-------|----------|--------|---------|
| Actions taken in equipment failure | | | | TX/RX | | | | |
| Restoration flow | Repaired by himself/Send to Semarang | | | Chief | 1 | | | |
| Examples of major failure | | | | Operator (skilled) | 1 (1) | | () | |
| Sufficiency of spares | Not-enough | | | Technician (skilled) | () | | () | |
| Records of damages | | Environmental Conditions | | Administrator | | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> External noises | Total 2 | | | | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> Air pollution | | | | | |
| <input type="checkbox"/> Other calamity | | | | | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 3 Measuring eqpt /tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input checked="" type="checkbox"/> Not capable | | | | | |

| | | | | |
|---------------------------------|--------------|---------------------|------------|-----------|
| SUMMARY OF COAST STATION | SITE | KARIMUN JAWA | | |
| | CLASS | 4th-A | NO. | 90 |

| 6. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
|--|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

| 7. COMMENTS | |
|--------------------|--|
| Suggestion | |
| Remarks | |

INVENTORY

Site Name: Karimun Jawa

KRJ-090- (1 / 1)

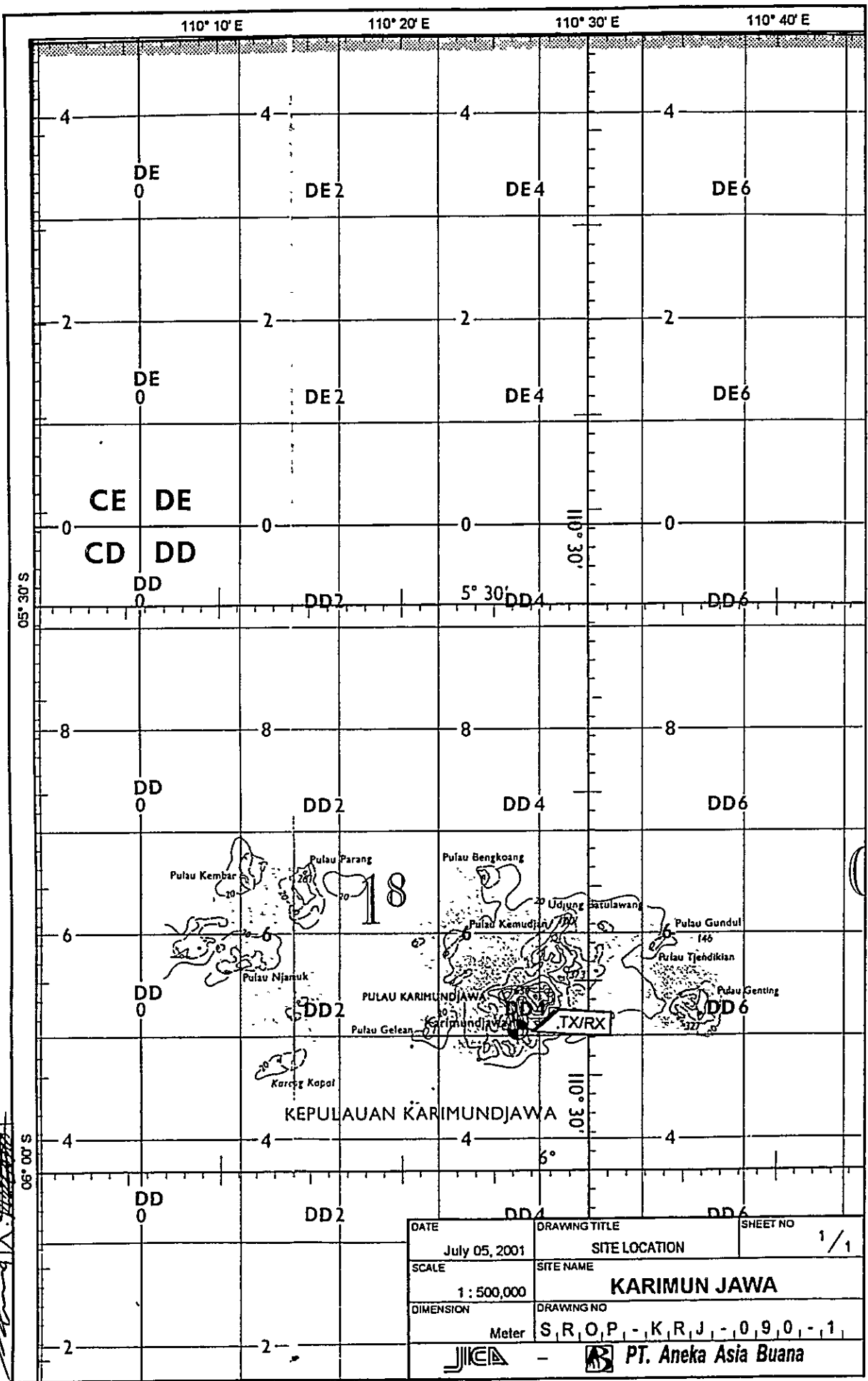
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|-----------------------------------|---------|-----------|-------------------------|------|-----------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | | Transmitter | IC-M700 | 49652 | Japan | 1996 | | | Good |
| 1 | | SSB Transceiver | IC-M700 | 05003 | Japan | 1997 | | | Good |
| 2 | | Tower & Antenna System | | | | | | | |
| 2-1 | | Tower & Mast | | | | 1996 | | | Good |
| 1 | | Antenna Tower (x2) | | | | | | | |
| 2-2 | | Antenna System | | | | 1996 | | | Good |
| 1 | | Long Wire Antenna | | | | | | | |
| 3 | | Power Supply Equipment | | | | | | | |
| 3-1 | | UPS & AVR | | | | | | | |
| 1 | | Battery Charger | | | | 1996 | | | Good |
| 2 | | AVO Meter | YX | 360 TRD | Nagata Sunwa | 1997 | | | Good |
| 3-2 | | Engine Generator | | | | | | | |
| 1 | | Generator 3 kVA | ST-3 | 835051 | Shynchours Yeh Hsing | | | | Good |
| 2 | | Diesel Machine | TS-60T | | | | | | Good |

STATUS OF TROUBLES

SITE NAME : KARIMUN JAWA

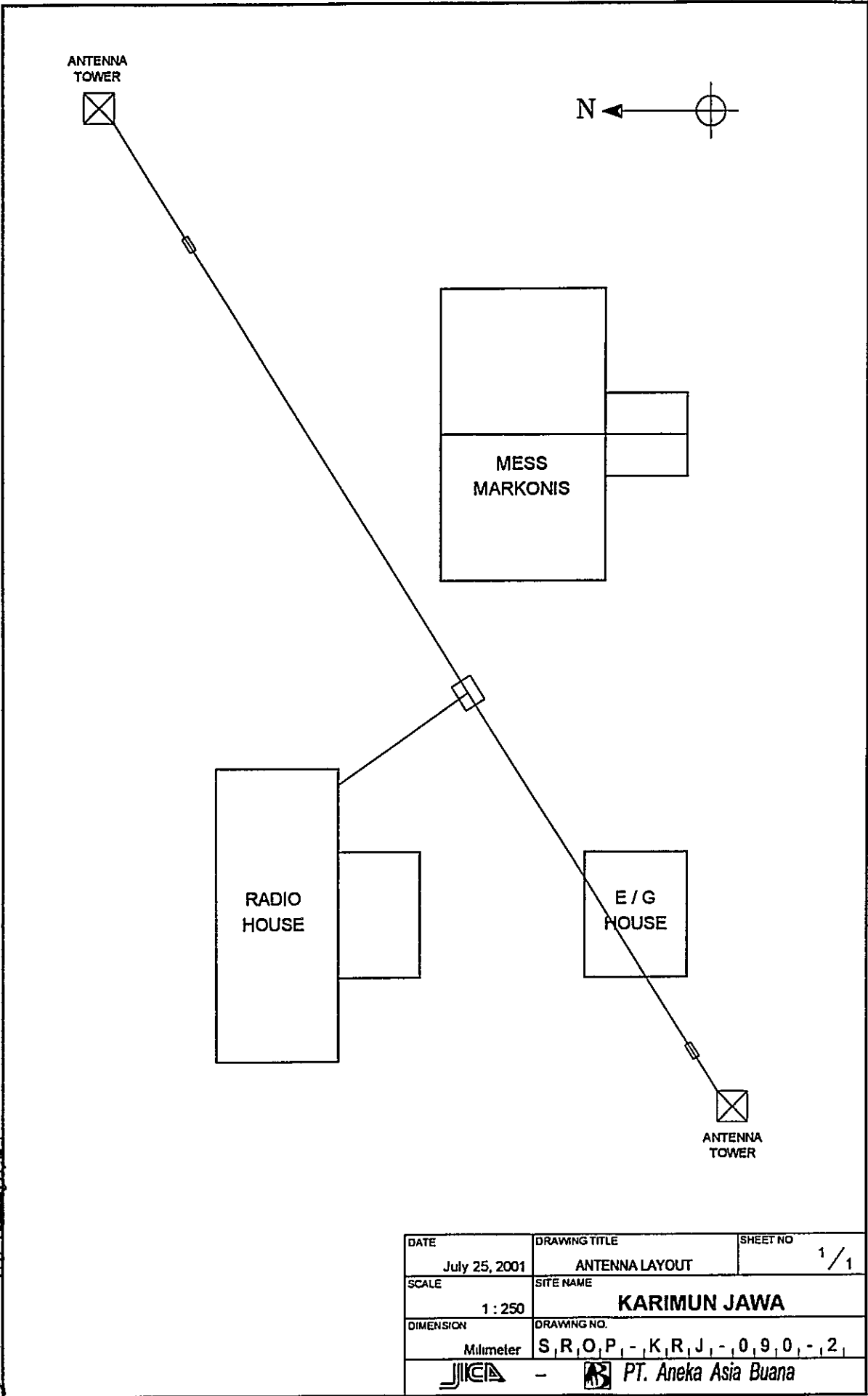
KRJ-90-(1/1)

| | | | |
|--|---|--|--|
| Item / Equipment | - / - | | |
| Manufacturer | - | | |
| Manufacturer in year | - | | |
| Defective panel / unit | - | | |
| Details of Trouble Status | Cause doe to: | | Repairing to be: |
| | <input type="checkbox"/> Aging | | <input type="checkbox"/> Immediacy |
| | <input type="checkbox"/> Lightning | | <input type="checkbox"/> By next year budget |
| | <input type="checkbox"/> Corrosion | | <input type="checkbox"/> By next project |
| | <input type="checkbox"/> Lack of Spares | | <input type="checkbox"/> Unnecessary |
| | <input type="checkbox"/> Others | | |
| <u>General Comment for Maintenance:</u> | | | |
| Request for routine maintenance for equipment facility. Karimun Java location is in the small island North of Semarang , sea transportation to the location is difficult. | | | |





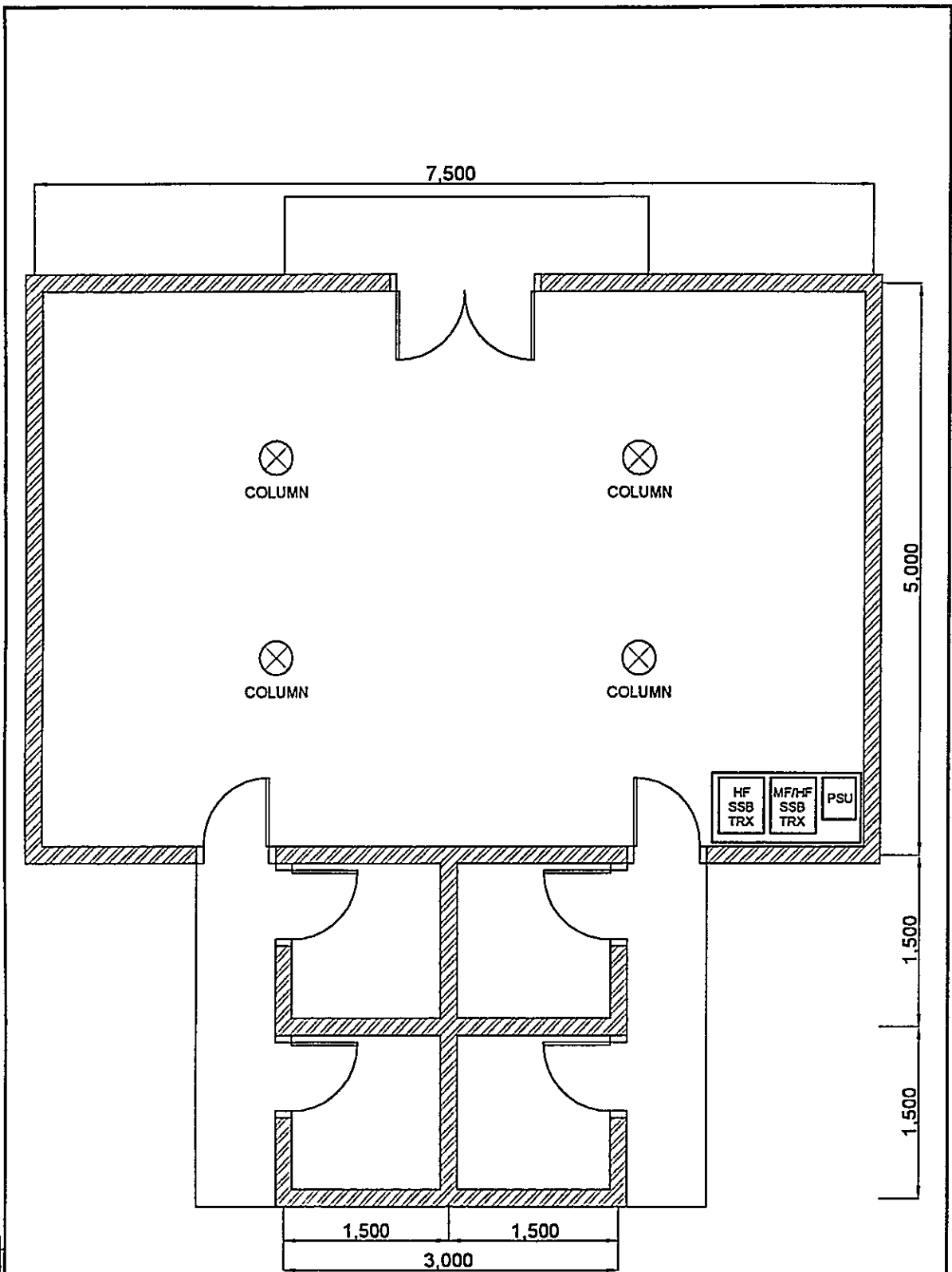
DRAWN BY A.A.P.
 APPROVED BY JICA

| | | |
|---------------|---------------------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 05, 2001 | SITE LOCATION | 1/1 |
| SCALE | SITE NAME | |
| 1 : 500,000 | KARIMUN JAWA | |
| DIMENSION | DRAWING NO | |
| Meter | S, R, O, P, - K, R, J, - 0, 9, 0, - 1 | |
| | | |



DRAWN BY A.A.B. 
 APPROVED BY JICA 

| | | |
|--|--|-------------------|
| DATE July 25, 2001 | DRAWING TITLE ANTENNA LAYOUT | SHEET NO 1 / 1 |
| SCALE 1 : 250 | SITE NAME KARIMUN JAWA | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, - K, R, J, - 0, 9, 0, - 2 | |
|  -  PT. Aneka Asia Buana | | |

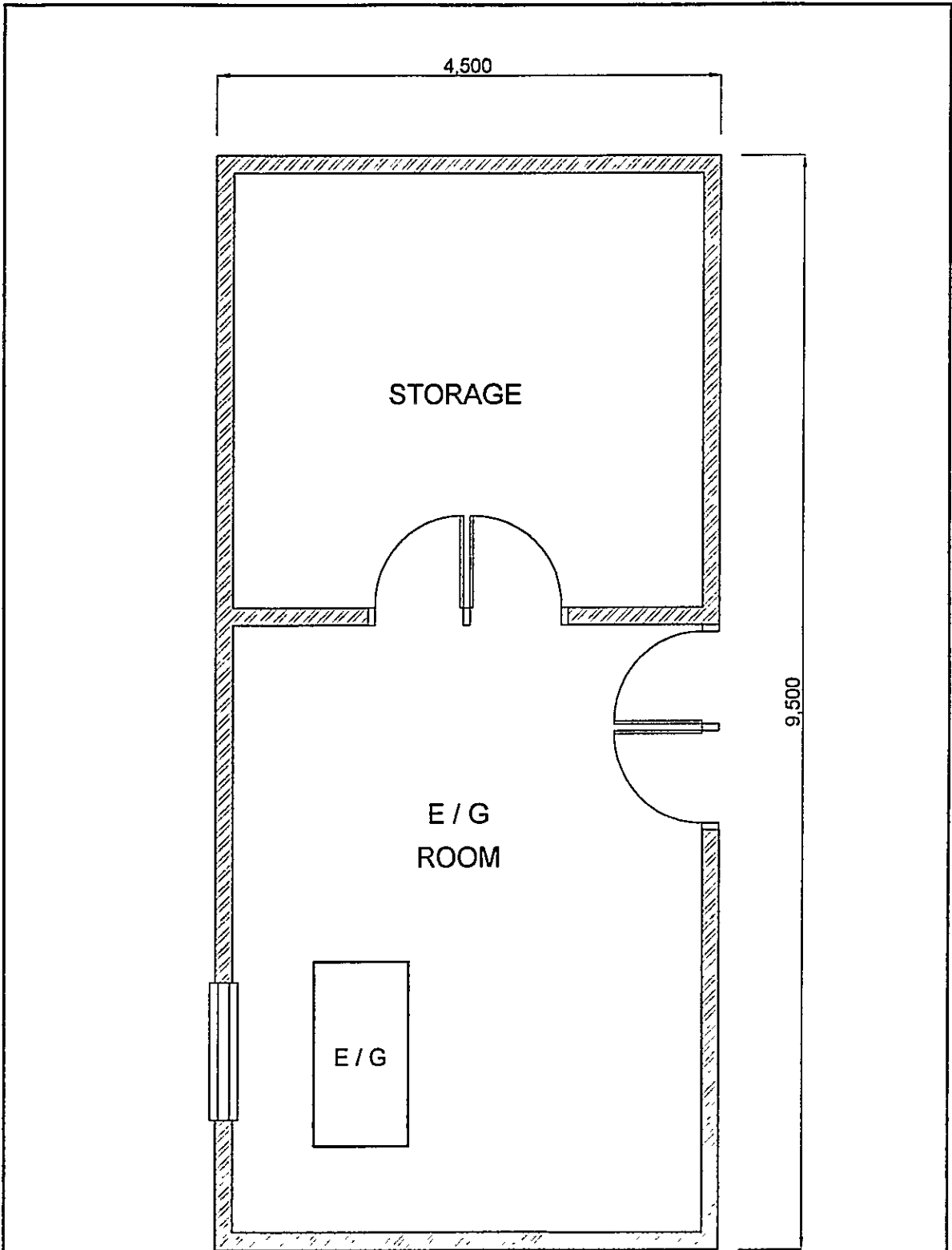


DRAWN BY: *[Signature]*
 APPROVED BY: JICA *[Signature]*

LEGEND

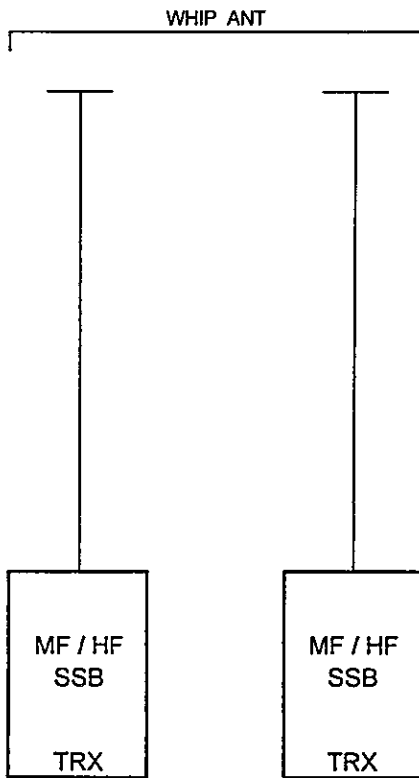
- HF HIGH FREQUENCY
- MF MEDIUM FREQUENCY
- PSU . POWER SUPPLY UNIT
- TRX TRANSCEIVER (ING)

| | | |
|-------------------------|--|--------------------|
| DATE July 31, 2001 | DRAWING TITLE EQUIPMENT FLOOR LAYOUT | SHEET NO. 1 / 1 |
| SCALE 1 : 50 | SITE NAME KARIMUN JAWA | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, -, K, R, J, -, 0, 9, 0, -, 3, | |
| - PT. Aneka Asia Buana | | |



DRAWN BY AAB
 APPROVED BY JICA: *[Signature]*



| | | |
|-------------------------|--|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 25, 2001 | E/G FLOOR LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 50 | KARIMUN JAWA | |
| DIMENSION | DRAWING NO | |
| Milimeter | S R O P ₁ - K R J - 0 9 0 - 4 | |
| - PT. Aneka Asia Buana | | |

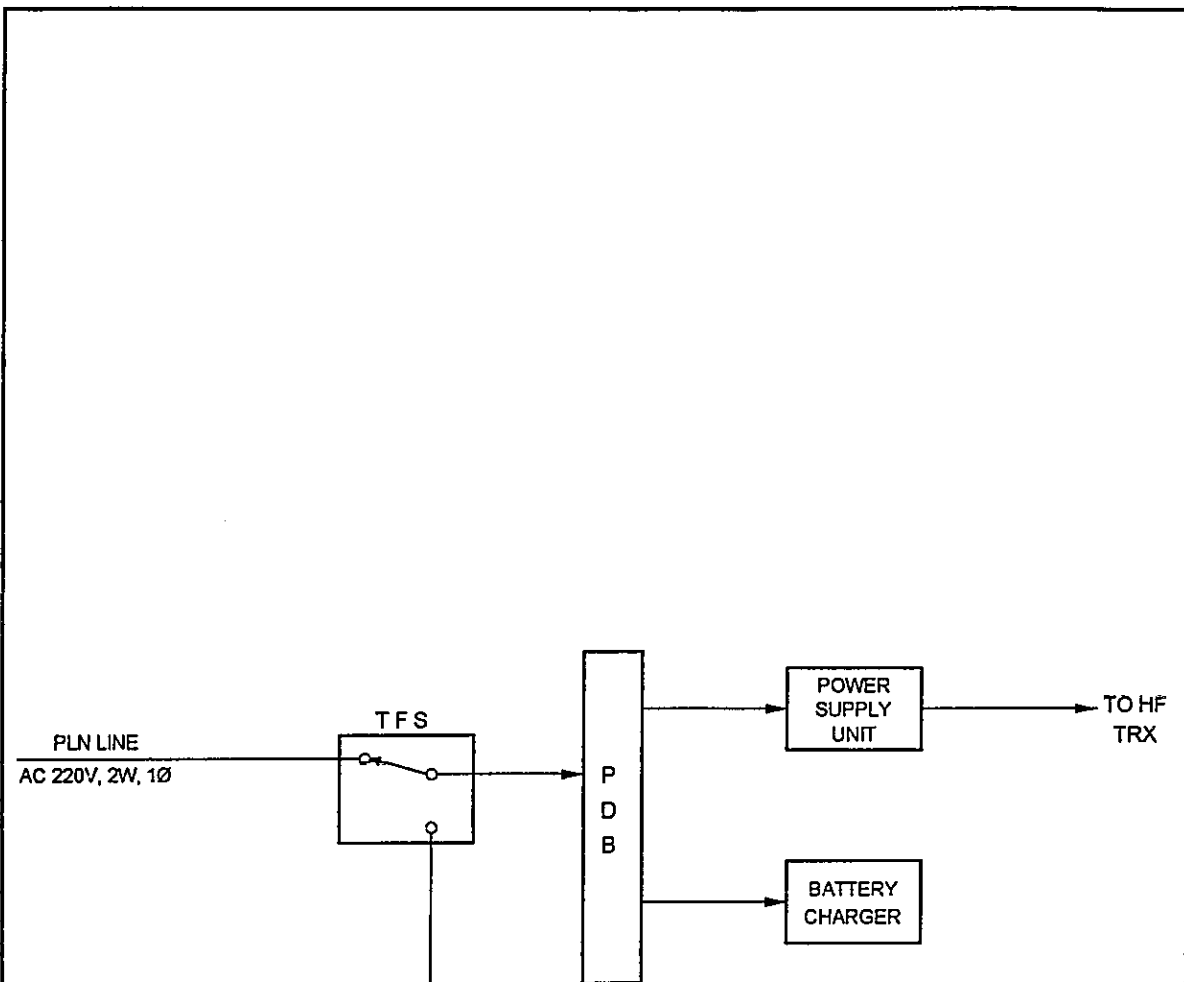


DRAWN BY: *[Signature]*
 APPROVED BY: JICA: *[Signature]*

LEGEND

- ANT : ANTENNA
- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- TRX : TRANSCEIVER (ING)

| | | |
|--|---|-------------------|
| DATE July 27, 2001 | DRAWING TITLE SYSTEM BLOCK DIAGRAM | SHEET NO 1 / 1 |
| SCALE No Scale | SITE NAME KARIMUN JAWA | |
| DIMENSION Milimeter | DRAWING NO S . R . O . P . - , K , R , J , - , 0 , 9 0 , - , 5 | |
|  -  PT. Aneka Asia Buana | | |



APPROVED BY JICA:
 DRAWN BY AAB

- LEGEND**
- AC ALTERNATING CURRENT
 - E/G ENGINE GENERATOR
 - kVA KILO VOLT AMPERE
 - TFS : TRANSFER SWITCH
 - TRX : TRANSCIEVER (ING)
 - V . VOLT
 - W . WIRE
 - Ø : PHASE

| | | |
|-------------------------|--------------------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 27, 2001 | POWER BLOCK DIAGRAM | 1 / 1 |
| SCALE | SITE NAME | |
| No Scale | KARIMUN JAWA | |
| DIMENSION | DRAWING NO. | |
| Millimeter | S, R, O, P, - K, R, J, - 0, 9, 0 - 6 | |
| - PT. Aneka Asia Buana | | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station Juwana (Coast Station No. 91)

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|-------|--------|-----|----|
| SUMMARY OF COAST STATION | SITE | JUWANA | | |
| | CLASS | 4th-B | NO. | 91 |

| 1. LOCATION | | | | | |
|-------------|-------------------------------|--------|-----|----------------|---------------|
| Station | Address | Tel. | Fax | Longitude | Latitude |
| TX/RX | Jl. Hang Tuah No. 472, Juwana | 471082 | | 111° 09' 01" E | 06° 42' 02" S |

| 2. GENERAL CONDITIONS | | | | | |
|--|---|---|---|------------|--|
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population | |
| By Air to Semarang [Taking time: 1.00 hr.] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | | |
| By Car to Juwana [Taking time: 3.00 hr.] | <input checked="" type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | | |
| | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | | |
| | | <input type="checkbox"/> None | | | |

| 3. CONDITIONS OF STATION | Refer to attached drawing |
|--------------------------|---------------------------|
|--------------------------|---------------------------|

| 3.1 Site Conditions | | | | | |
|--|--|------------------------------------|---|--|----|
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system | |
| <input checked="" type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes | No |
| <input type="checkbox"/> Slope | <input checked="" type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> Antenna | |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input type="checkbox"/> Towers (Masts) | |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input type="checkbox"/> Grounding system | |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input checked="" type="checkbox"/> Lightning system | |
| Altitude | M | | Telephone Lines | <input type="checkbox"/> Feeder Cable Way | |
| Land area | m ² | | <input checked="" type="checkbox"/> 1 Lines | <input type="checkbox"/> City water | |

| 3.2 Building Conditions | | | 3.3 Power Source | | |
|-----------------------------|------|-------------------------------|------------------|--|---|
| Constructions | | PLN Source | E/G | Existing Power Conditions | |
| Num. of story | | Voltage | 220 V | V | Good Bad |
| Structure | | Phase | 1 | | <input checked="" type="checkbox"/> Power Supply System |
| Type of roof | | Wire | 2 | | <input type="checkbox"/> Operations of E/G |
| Type of ceiling | | kVA | | | <input type="checkbox"/> Operations of AVR |
| Type of wall | | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | | Fluctuations | V ± % | Day tank | Liter |
| Flooring | | Availability of power per day | Hours | Main tank | k Liter |
| Room Area (m ²) | | Power interruption /month | Times | E/G Stand-by System | |
| Operation room | 6.00 | Total interpt. hours /month | Hours | <input type="checkbox"/> Single System | |
| E / G room | | Max. interpt. hours at once | Hours | <input type="checkbox"/> Dual System | |
| Remark | | | | | |

| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
|---|-------------------------------------|--|--|-------------------------|-------|----------|--------|---------|
| Actions taken in equipment failure | | | | TX/RX | | | | |
| Restoration flow | Repaired by himself | | | Chief | | 1 | | |
| Examples of major failure | | | | Operator (skilled) | | 1 () | () | |
| Sufficiency of spares | Not enough | | | Technician (skilled) | | 1 () | () | |
| Records of damages | | Environmental Conditions | | Administrator | | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> External noises | Total 3 | | | | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> Air pollution | | | | | |
| <input type="checkbox"/> Other calamity | | | | | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 3 Measuring eqpt /tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input checked="" type="checkbox"/> Not capable | | | | | |

| | | | | |
|---------------------------------|--------------|---------------|------------|-----------|
| SUMMARY OF COAST STATION | SITE | JUWANA | | |
| | CLASS | 4th-B | NO. | 91 |

| 6. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
|--|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

| 7. COMMENTS | |
|--------------------|--|
| Suggestion | |
| Remarks | |

INVENTORY

Site Name: Juwana

Juwana-091- (1 / 1)

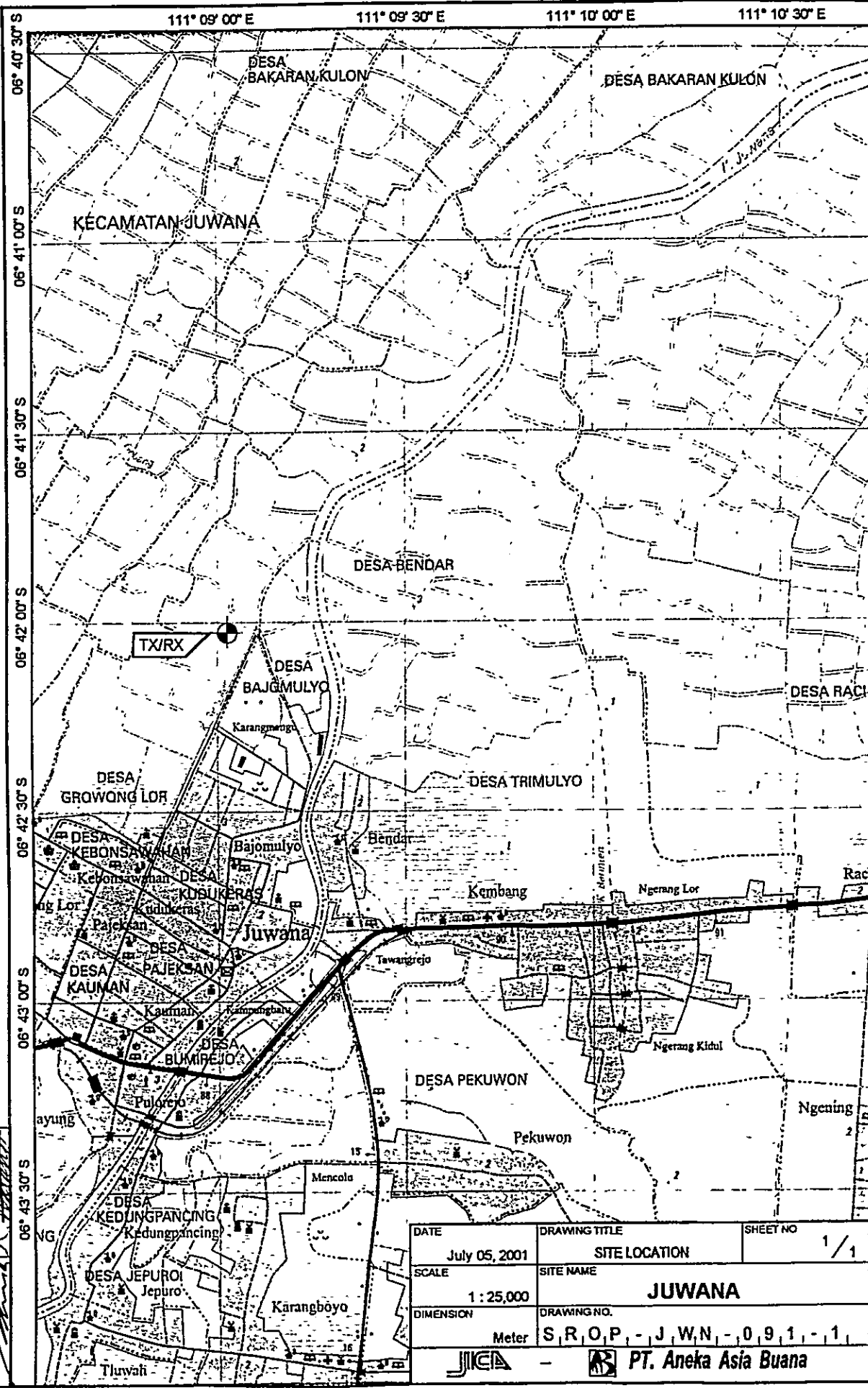
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|-----------------------------------|------|-----------|--------------|------|-----------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | | Transmitter | | | | | | | |
| 1 | | SSB Transceiver | | 01251 | ICOM | 1989 | | | Good |
| 2 | | SSB Transceiver | | 49259 | ICOM | 1996 | | | Good |
| 2 | | Tower & Antenna System | | | | | | | |
| 2-1 | | Tower & Mast | | | | | | | |
| 1 | | Antenna Pipe Pole | | | | | | | |
| 2-2 | | Antenna System | | | | | | | |
| 1 | | I/L Antenna | | | | | | | |
| 3 | | Power Supply Equipment | | | | | | | |
| 3-1 | | UPS & AVR | | | | | | | |
| 1 | | Power Supply | | MG700A | RTCV | 1996 | | | Good |
| 2 | | Accu Charger | | TN210660 | Onaga | 1989 | | | Damaged |
| 3 | | Avo Meter | | 8P6D | Sanwa | 1989 | | | Good |

STATUS OF TROUBLES

SITE NAME : JUWANA

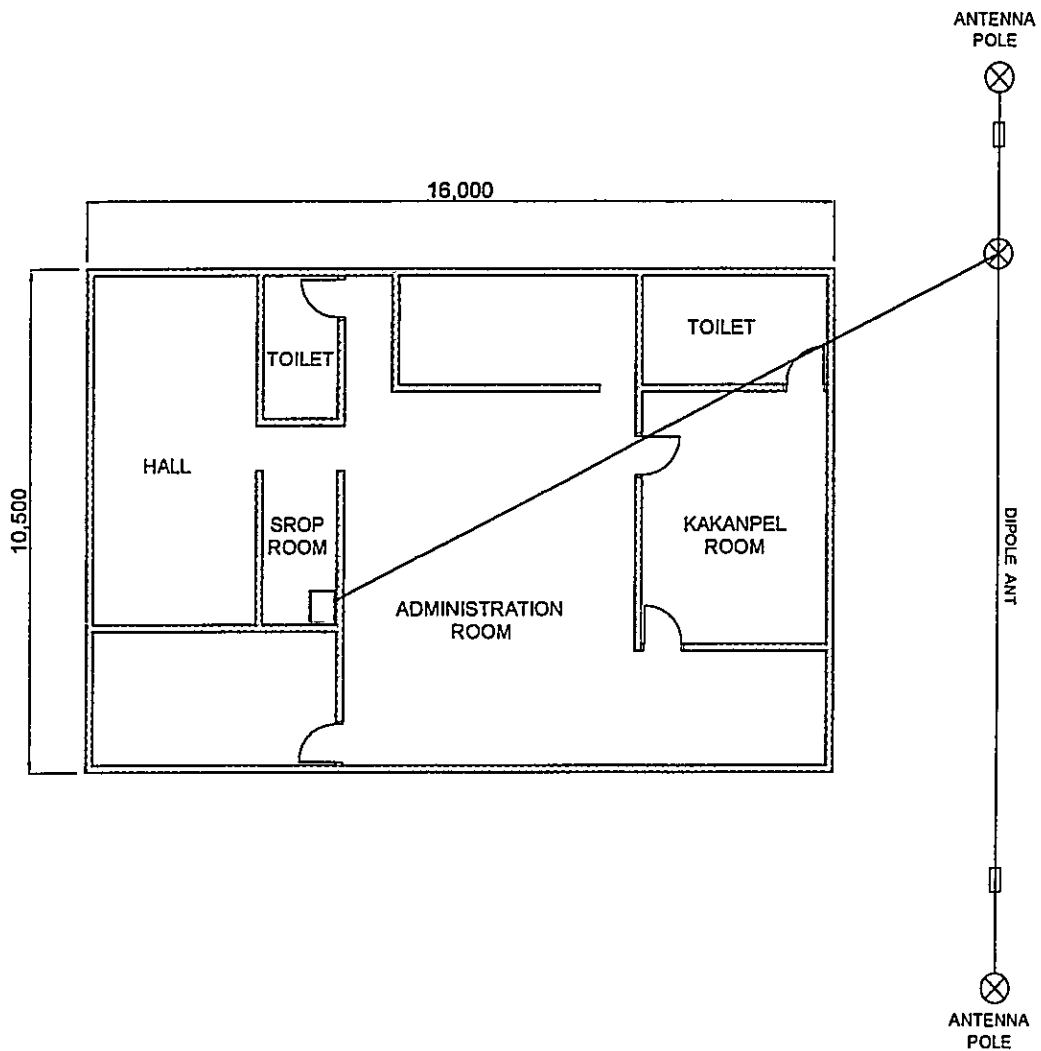
JWN-91-(1/1)

| | | | |
|---|---|-------------------|--|
| Item / Equipment | - / - | | |
| Manufacturer | - | | |
| Manufacturer in year | - | | |
| Defective panel / unit | - | | |
| Details of Trouble Status | Cause doe to: | Urgency of Repair | Repairing to be: |
| | <input type="checkbox"/> Aging | | <input type="checkbox"/> Immediacy |
| | <input type="checkbox"/> Lightning | | <input type="checkbox"/> By next year budget |
| | <input type="checkbox"/> Corrosion | | <input type="checkbox"/> By next project |
| | <input type="checkbox"/> Lack of Spares | | <input type="checkbox"/> Unnecessary |
| | <input type="checkbox"/> Others | | |
| <u>General Comment for Maintenance:</u> | | | |
| Operational room is very small | | | |





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 APPROVED BY JICA

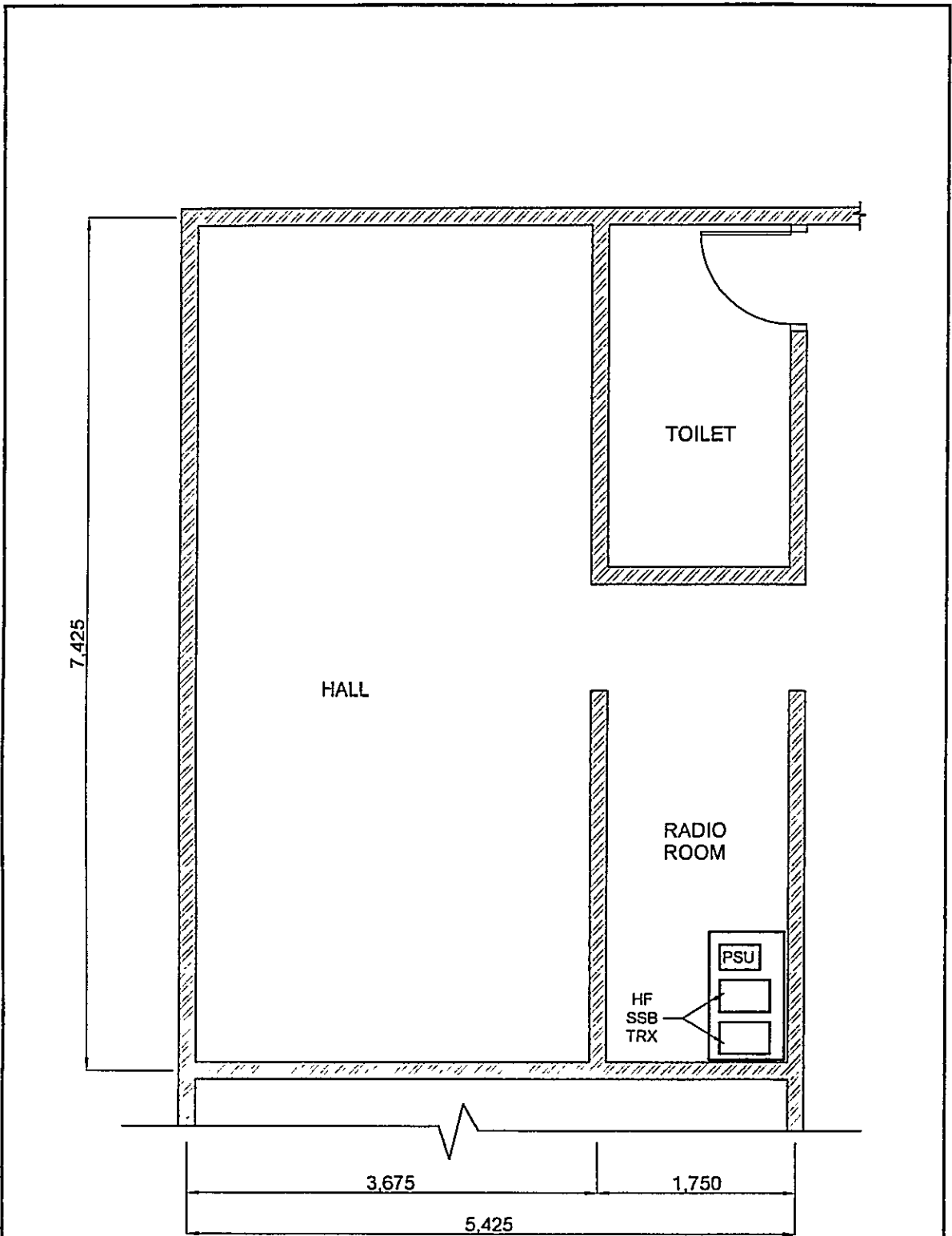
| | | |
|-------------------------------|------------------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 05, 2001 | SITE LOCATION | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 25,000 | JUWANA | |
| DIMENSION | DRAWING NO. | |
| Meter | S.R.O.P. - J.W.N. - 091 - 1 | |
| - PT. Aneka Asia Buana | | |



APPROVED BY JICA:

 DRAWN BY AAR:


| | | |
|---|---|-------------------|
| DATE July 25, 2001 | DRAWING TITLE ANTENNA LAYOUT | SHEET NO 1 / 1 |
| SCALE 1 : 150 | SITE NAME JUWANA | |
| DIMENSION Millimeter | DRAWING NO S.R.O.P. - J.W.N. - 0.9.1 - 2 | |
|  -  PT. Aneka Asia Buana | | |

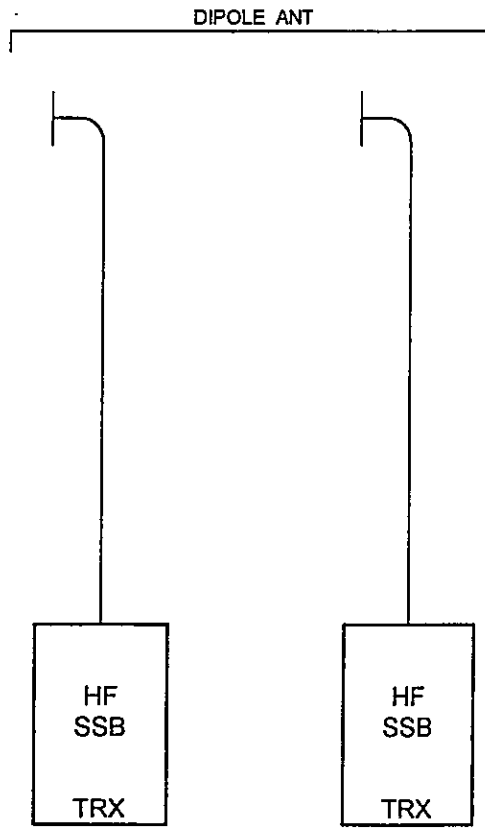


DRAWN BY: *[Signature]*
 APPROVED BY: JCA *[Signature]*

LEGEND



- HF HIGH FREQUENCY
- PSU POWER SUPPLY UNIT
- TRX TRANSCEIVER (ING)



| | | |
|-------------------------|---|-----------------|
| DATE July 25, 2001 | DRAWING TITLE EQUIPMENT FLOOR LAYOUT | SHEET NO 1/1 |
| SCALE 1 : 50 | SITE NAME JUWANA | |
| DIMENSION Milimeter | DRAWING NO S, R, O, P, - J, W, N, - 0 9 1, - 3 | |
| - PT. Aneka Asia Buana | | |

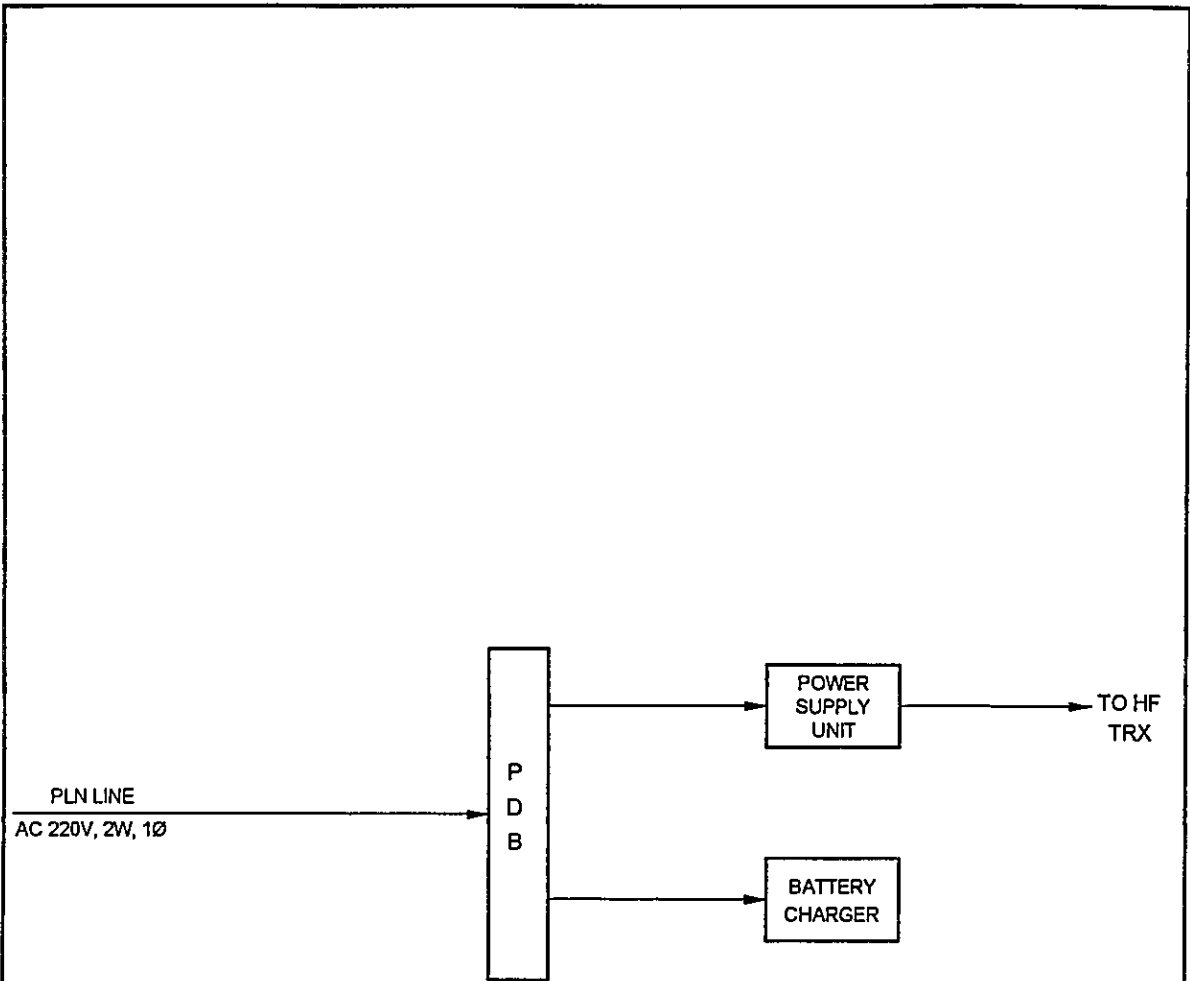


LEGEND

ANT ANTENNA
 HF . HIGH FREQUENCY
 TRX : TRANSCEIVER (ING)

APPROVED BY JICA: 
 DRAWN BY AAD: 

| | | |
|---|---------------------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 27, 2001 | SYSTEM BLOCK DIAGRAM | 1 / 1 |
| SCALE | SITE NAME | |
| No Scale | JUWANA | |
| DIMENSION | DRAWING NO | |
| Milimeter | S R O P , - , J W N , - 0 9 1 - , 5 , | |
|  -  PT. Aneka Asia Buana | | |



LEGEND

- AC : ALTERNATING CURRENT
- TRX : TRANSCEIVER (ING)
- V : VOLT
- W WIRE
- Ø PHASE

APPROVED BY JICA
 DRAWN BY AAB

| | | |
|-------------------------|---|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 27, 2001 | POWER BLOCK DIAGRAM | 1 / 1 |
| SCALE | SITE NAME | |
| No Scale | JUWANA | |
| DIMENSION | DRAWING NO | |
| Milimeter | S, R, O, P, -, J, W, N, -, 0, 9, 1 - - 6, | |
| - PT. Aneka Asia Buana | | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station Rembang (Coast Station No. 92)

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|-------|---------|-----|----|
| SUMMARY OF COAST STATION | SITE | REMBANG | | |
| | CLASS | 4th-B | NO. | 92 |

| 1. LOCATION | | | | | |
|-------------|------------------------------|-------|-----|----------------|---------------|
| Station | Address | Tel. | Fax | Longitude | Latitude |
| TX/RX | Jl. Pelabuhan No. 2, Rembang | 91221 | | 111° 19' 56" E | 06° 42' 12" S |

| 2. GENERAL CONDITIONS | | | | |
|---|---|---|---|------------|
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air to Semarang [Taking time: 1.00 hr] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input type="checkbox"/> Hotel | |
| By Car to Rembang [Taking time: 4.00 hr] | <input checked="" type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input checked="" type="checkbox"/> Motel | |
| | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | |
| | | <input type="checkbox"/> None | | |

| 3. CONDITIONS OF STATION | Refer to attached drawing |
|--------------------------|---------------------------|
|--------------------------|---------------------------|

| 3.1 Site Conditions | | | |
|--|--|---|--|
| Topography | Nature of Soil | Past disaster of site | Confirmation of existing system |
| <input checked="" type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | Yes No |
| <input type="checkbox"/> Slope | <input checked="" type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input checked="" type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input checked="" type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | <input type="checkbox"/> Ground Subsidence | <input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | <input checked="" type="checkbox"/> Lightning system |
| Altitude | M | Telephone Lines | <input type="checkbox"/> <input type="checkbox"/> Feeder Cable Way |
| Land area | m ² | <input checked="" type="checkbox"/> 1 Lines | <input type="checkbox"/> <input type="checkbox"/> City water |
| 3.2 Building Conditions | | 3.3 Power Source | |
| Constructions | PLN Source | E/G | Existing Power Conditions |
| Num. of story | Voltage | 220 V | V Good Bad |
| Structure | Phase | | <input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System |
| Type of roof | Wire | | <input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G |
| Type of ceiling | kVA | | <input type="checkbox"/> <input checked="" type="checkbox"/> Operations of AVR |
| Type of wall | Quality of PLN source | | Capacity of fuel for engine |
| Wall finish | Fluctuations | V ± % | Day tank Liter |
| Flooring | Availability of power per day | Hours | Main tank k Liter |
| Room Area (m ²) | Power interruption /month | Times | E/G Stand-by System |
| Operation room | 6.00 | Total interpt. hours /month | Hours <input type="checkbox"/> Single System |
| E / G room | | Max. interpt. hours at once | Hours <input type="checkbox"/> Dual System |
| Remark | | | |

| 4. OPERATION AND MAINTENANCE | 5. PERSONNEL FORMATIONS |
|---|--|
| Actions taken in equipment failure | |
| Restoration flow | Repaired by himself/send to Semarang |
| Examples of major failure | Final SSB Transceiver |
| Sufficiency of spares | Not enough |
| Records of damages | |
| <input type="checkbox"/> Heavy rainfall | Good Bad |
| <input type="checkbox"/> Storm | <input checked="" type="checkbox"/> <input type="checkbox"/> External noises |
| <input type="checkbox"/> Lightning | <input checked="" type="checkbox"/> <input type="checkbox"/> Air pollution |
| <input type="checkbox"/> Other calamity | |
| Environmental Conditions | |
| Institutional and Human Statuses | |
| 1 Budget | <input type="checkbox"/> Sufficient <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Insufficient |
| 2 Spares | <input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Not enough |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Not enough |
| 4 Number of Operator | <input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input type="checkbox"/> Not enough |
| 5 Number of Technician | <input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input checked="" type="checkbox"/> Not enough |
| 6 Capability of Operator | <input type="checkbox"/> Skilled <input checked="" type="checkbox"/> Not so bad <input type="checkbox"/> Not capable |
| 7 Capability of Technician | <input type="checkbox"/> Skilled <input type="checkbox"/> Not so bad <input type="checkbox"/> Not capable |
| Training Record | |
| | Administrator |
| | Total |
| | Chief |
| | Operator (skilled) |
| | Technician (skilled) |
| | Course |
| | Class |
| | Location |
| | Period |
| | Trainee |

| | | | | |
|---------------------------------|--------------|----------------|------------|----|
| SUMMARY OF COAST STATION | SITE | REMBANG | | |
| | CLASS | 4th-B | NO. | 92 |

6. STATISTICAL COMMUNICATION TRAFFIC DATA

| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
|------------------------|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

7. COMMENTS

| | |
|-------------------|--|
| Suggestion | |
| Remarks | |

INVENTORY

Site Name: Rembang

RMB-092- (1 / 1)

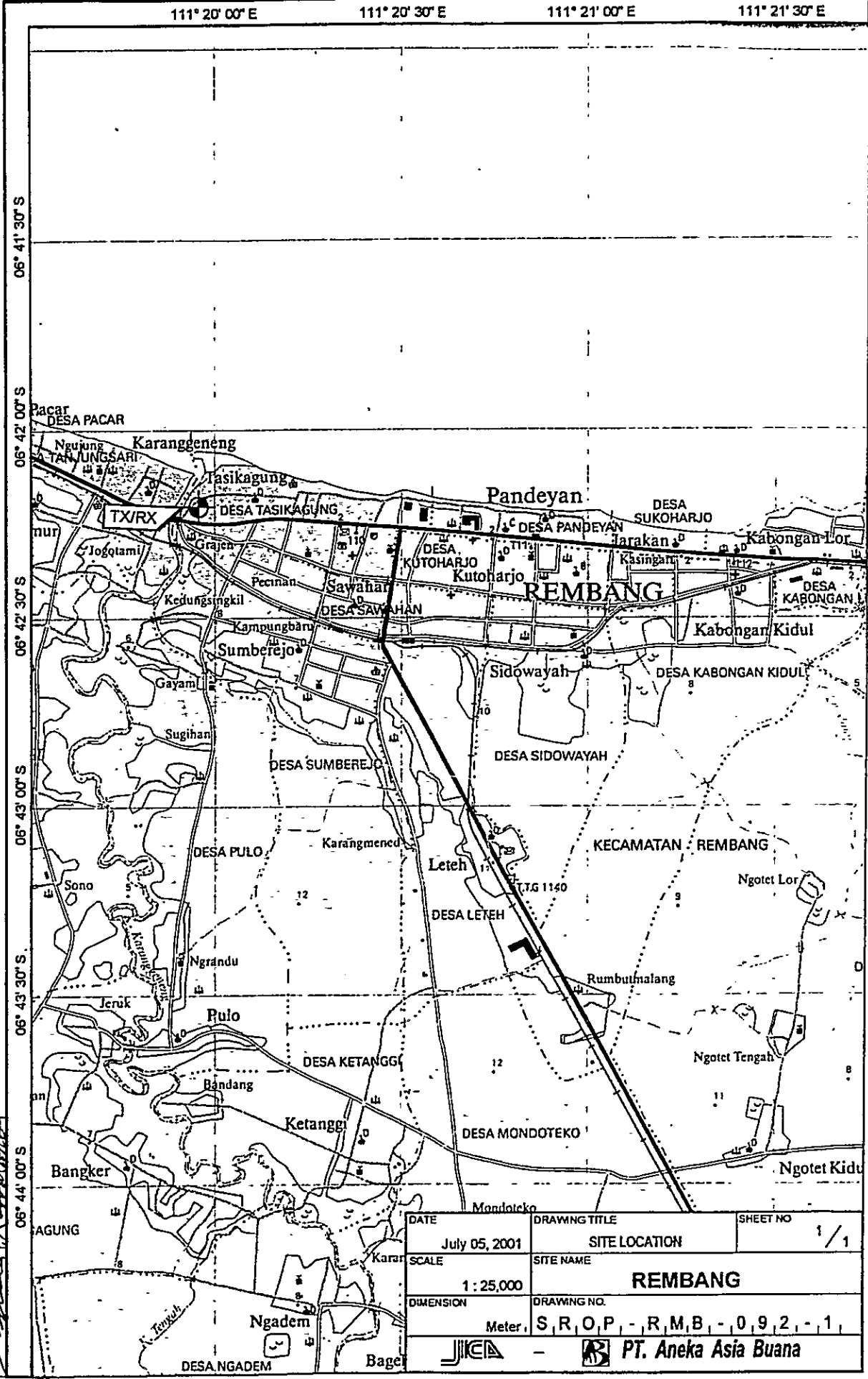
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|-----------------------------------|---------|-----------|--------------|------|-----------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | 1 | Transmitter SSB Transceiver | IC-M700 | 5923 | ICOM | 1994 | | | Good |
| 2 | | Tower & Antenna System | | | | | | | |
| 2-1 | 1 | Tower & Mast Antenna Tower | | | | | | | |
| 3 | | Power Supply Equipment | | | | | | | |
| 3-1 | 1 | UPS & AVR Power Supply | | | RTCY | 1994 | | | Good |

STATUS OF TROUBLES

SITE NAME : REMBANG

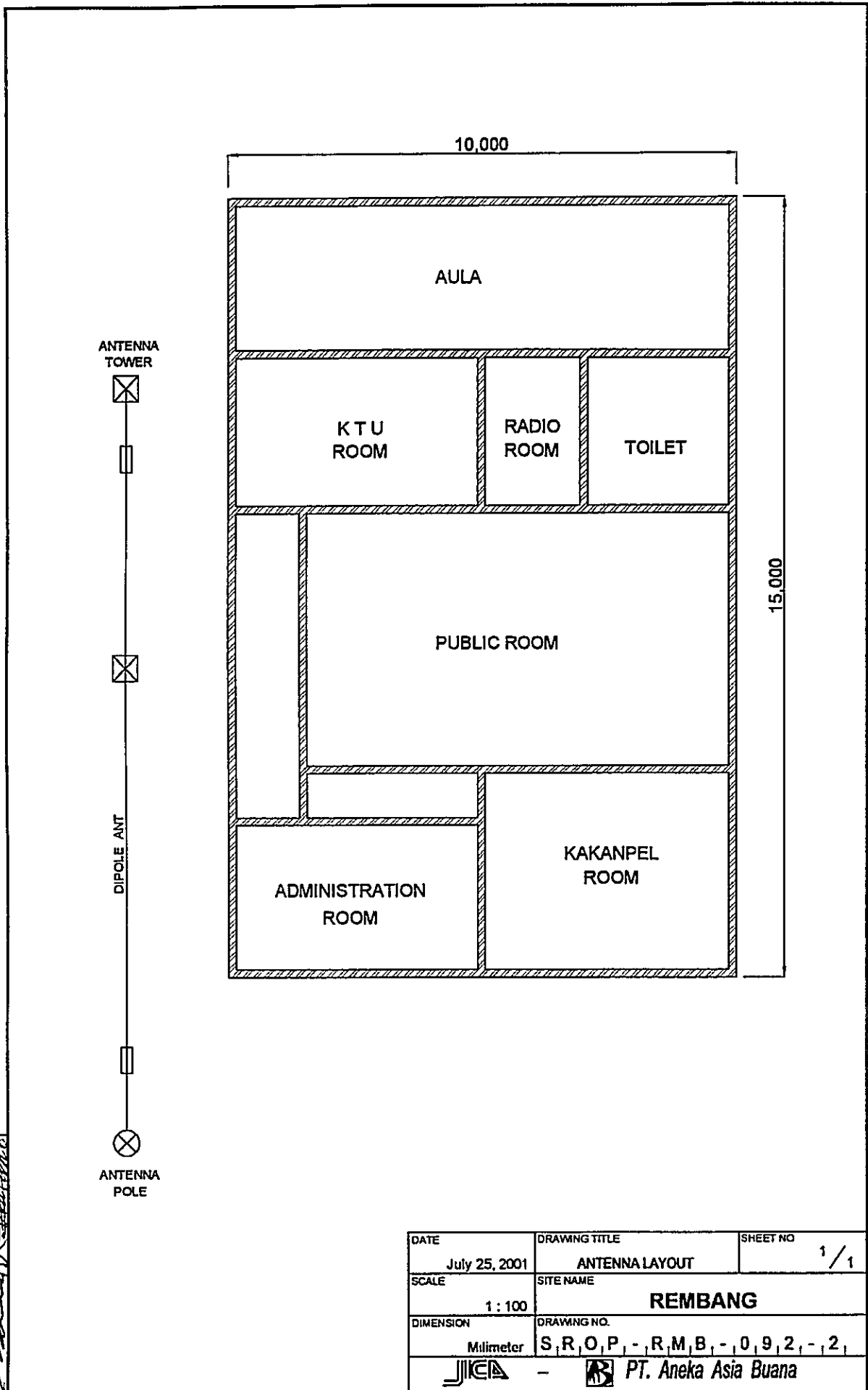
RMB-92-(1/1)

| | | |
|---|---|--|
| Item / Equipment | Antenna Tower / - | |
| Manufacturer | - | |
| Manufacturer in year | - | |
| Defective panel / unit | Porous | |
| Details of Trouble Status | Cause doe to: | Urgency of Repair Repairing to be: <input checked="" type="checkbox"/> Immediacy <input type="checkbox"/> By next year budget <input type="checkbox"/> By next project <input type="checkbox"/> Unnecessary |
| | <input type="checkbox"/> Aging | |
| | <input type="checkbox"/> Lightning | |
| | <input checked="" type="checkbox"/> Corrosion | |
| | <input type="checkbox"/> Lack of Spares | |
| | <input type="checkbox"/> Others | |
| <u>General Comment for Maintenance:</u> | | |
| Request for repairing of Antenna tower, because it is already corrosion | | |



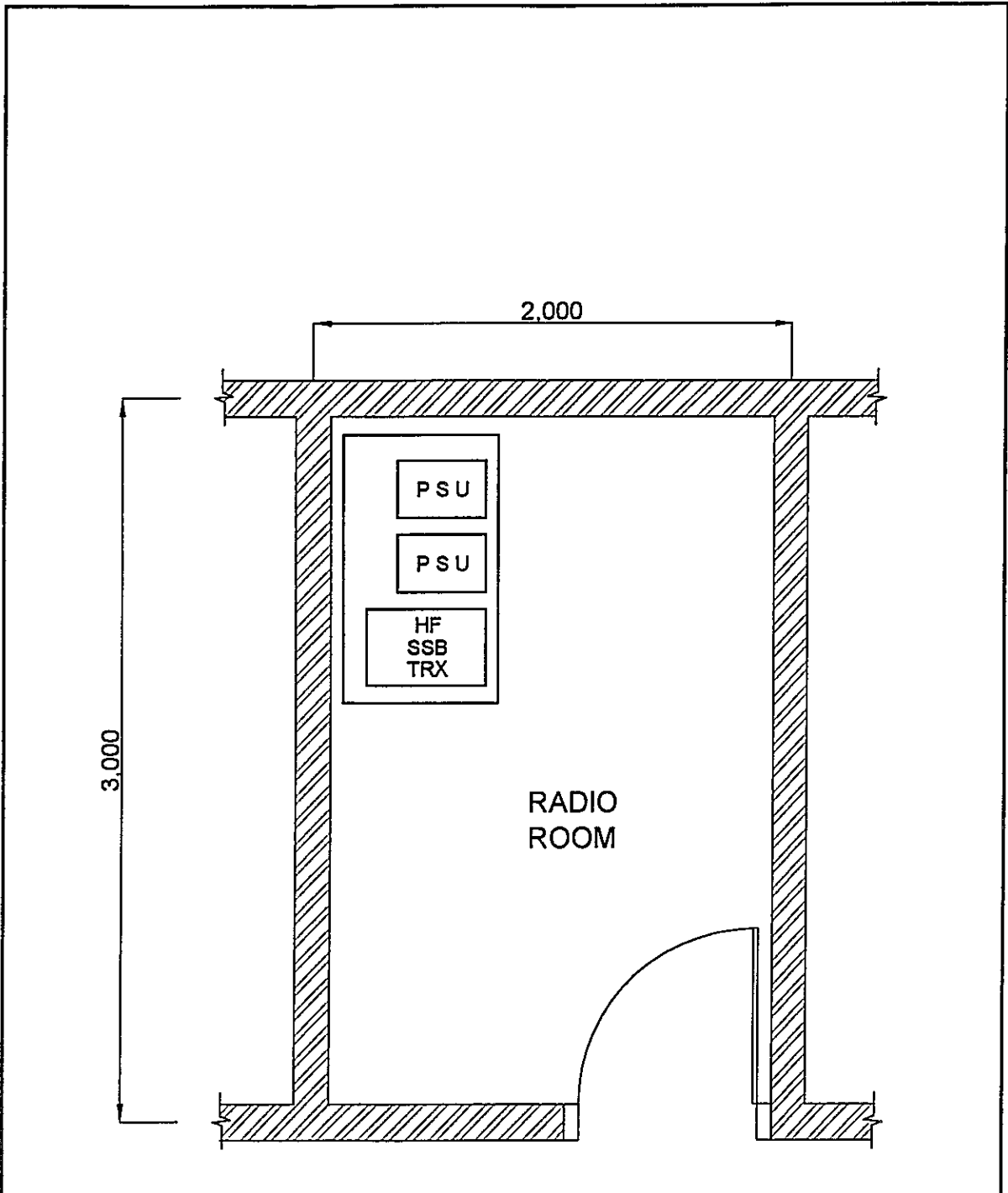
DRAWN BY AAB.
 APPROVED BY JICA:

| | | |
|-----------------------------|------------------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 05, 2001 | SITE LOCATION | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 25,000 | REMBANG | |
| DIMENSION | DRAWING NO. | |
| Meter | S, R, O, P - R, M, B - 0, 9, 2 - 1 | |
| PT. Aneka Asia Buana | | |




DRAWN BY AAB
 APPROVED BY JICA



| | | |
|-------------------------|--|-------------------|
| DATE July 25, 2001 | DRAWING TITLE ANTENNA LAYOUT | SHEET NO 1 / 1 |
| SCALE 1 : 100 | SITE NAME REMBANG | |
| DIMENSION Millimeter | DRAWING NO. S R O P - R M B - 0 9 2 - 2 | |
| - PT. Aneka Asia Buana | | |

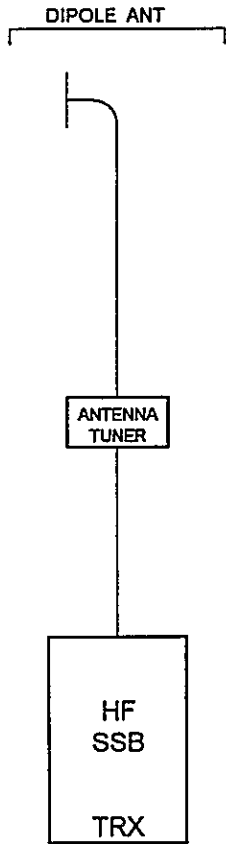


LEGEND

- HF : HIGH FREQUENCY
- PSU : POWER SUPPLY UNIT
- TRX : TRANSCEIVER (ING)

DRAWN BY AAB
 APPROVED BY JICA





| | | |
|---|--|-------------------|
| DATE July 31, 2001 | DRAWING TITLE EQUIPMENT FLOOR LAYOUT | SHEET NO 1 / 1 |
| SCALE 1 : 100 | SITE NAME REMBANG | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, -, R, M, B, -, 0, 9, 2, -, 3, | |
|  -  PT. Aneka Asia Buana | | |



DRAWN BY AAB
 APPROVED BY JICA

LEGEND

- ANT : ANTENNA
- HF : HIGH FREQUENCY
- TRX : TRANSCIVER (ING)

| | | |
|---|--|-------------------|
| DATE July 27, 2001 | DRAWING TITLE SYSTEM BLOCK DIAGRAM | SHEET NO 1 / 1 |
| SCALE No Scale | SITE NAME REMBANG | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, -, R, M, B, -, 0, 9, 2, -, 5, | |
|  -  PT. Aneka Asia Buana | | |

PLN LINE
AC 220V, 2W, 1Ø

POWER
SUPPLY
UNIT



TO HF
TRX

POWER
SUPPLY
UNIT

LEGEND

AC : ALTERNATING CURRENT
TRX : TRANSCIEVER (ING)
V : VOLT
W : WIRE
Ø : PHASE

DRAWN BY A.A.B.
 APPROVED BY JICA.

| | | |
|---|---|-------------------|
| DATE July 27, 2001 | DRAWING TITLE POWER BLOCK DIAGRAM | SHEET NO 1 / 1 |
| SCALE No Scale | SITE NAME REMBANG | |
| DIMENSION Milmeter | DRAWING NO S, R, O, P, -, R, M, B, -, 0, 9, 2, -, 6, 1 | |
|  -  PT. Aneka Asia Buana | | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

**4th-B Class Coast Station .
Jepara
(Coast Station No. 93)**

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|-------|--------|-----|----|
| SUMMARY OF COAST STATION | SITE | JEPARA | | |
| | CLASS | 4th-B | NO. | 93 |

| 1. LOCATION | | | | | |
|-------------|-----------------------------|--------|-----|----------------|---------------|
| Station | Address | Tel. | Fax | Longitude | Latitude |
| TX/RX | Jl. Pattimus No. 33, Jepara | 591033 | | 110° 39' 33" E | 06° 35' 13" S |

| 2. GENERAL CONDITIONS | | | | | |
|--|---|---|---|------------|--|
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population | |
| By Air to Semarang [Taking time: 1.00 hr.] | <input checked="" type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | | |
| By Car to Jepara [Taking time: 3.00 hr.] | <input type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | | |
| | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | | |
| | | <input type="checkbox"/> None | | | |

| 3. CONDITIONS OF STATION | Refer to attached drawing |
|--------------------------|---------------------------|
|--------------------------|---------------------------|

| 3.1 Site Conditions | | | | | |
|-----------------------------------|--|------------------------------------|---|-------------------------------------|--|
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system | |
| <input type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes | No |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> | <input type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input checked="" type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input type="checkbox"/> | <input checked="" type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input type="checkbox"/> | <input type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input type="checkbox"/> | <input type="checkbox"/> Lightning system |
| Altitude | M | | Telephone Lines | <input type="checkbox"/> | <input type="checkbox"/> Feeder Cable Way |
| Land area | m ² | | <input checked="" type="checkbox"/> 1 Lines | <input type="checkbox"/> | <input type="checkbox"/> City water |

| 3.2 Building Conditions | | | 3.3 Power Source | | |
|-----------------------------|------|-------------------------------|------------------|-------------------------------------|--|
| Constructions | | PLN Source | E/G | Existing Power Conditions | |
| Num. of story | | Voltage | 220 V | Good Bad | |
| Structure | | Phase | 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> Power Supply System |
| Type of roof | | Wire | 2 | <input type="checkbox"/> | <input type="checkbox"/> Operations of E/G |
| Type of ceiling | | kVA | | <input type="checkbox"/> | <input type="checkbox"/> Operations of AVR |
| Type of wall | | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | | Fluctuations | V ± % | Day tank | Liter |
| Flooring | | Availability of power per day | Hours | Main tank | k Liter |
| Room Area (m ²) | | Power interruption /month | | E/G Stand-by System | |
| Operation room | 7.00 | Total interpt. hours /month | Hours | <input type="checkbox"/> | Single System |
| E / G room | | Max. interpt. hours at once | Hours | <input type="checkbox"/> | Dual System |
| Remark | | | | | |

| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
|---|---|--|--|-------------------------|-------|----------|--------|---------|
| Actions taken in equipment failure | | | | TX/RX | | | | |
| Restoration flow | Repaired by himself | | | Chief | 1 | | | |
| Examples of major failure | Antenna Tower and AAT damaged | | | Operator (skilled) | 1 () | | () | |
| Sufficiency of spares | Not enough | | | Technician (skilled) | () | | () | |
| Records of damages | | Environmental Conditions | | Administrator | | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | External noises | Total | | 2 | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Air pollution | | | | |
| <input type="checkbox"/> Other calamity | | | | | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | Prc | II | Jakarta | | 1 |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input checked="" type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input checked="" type="checkbox"/> Not capable | | | | | |

| | | | | |
|---------------------------------|--------------|---------------|------------|-----------|
| SUMMARY OF COAST STATION | SITE | JEPARA | | |
| | CLASS | 4th-B | NO. | 93 |

6. STATISTICAL COMMUNICATION TRAFFIC DATA

| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
|------------------------|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

7. COMMENTS

| | |
|-------------------|--|
| Suggestion | |
| Remarks | |

INVENTORY

Site Name: Jepara

JPR-093- (1 / 1)

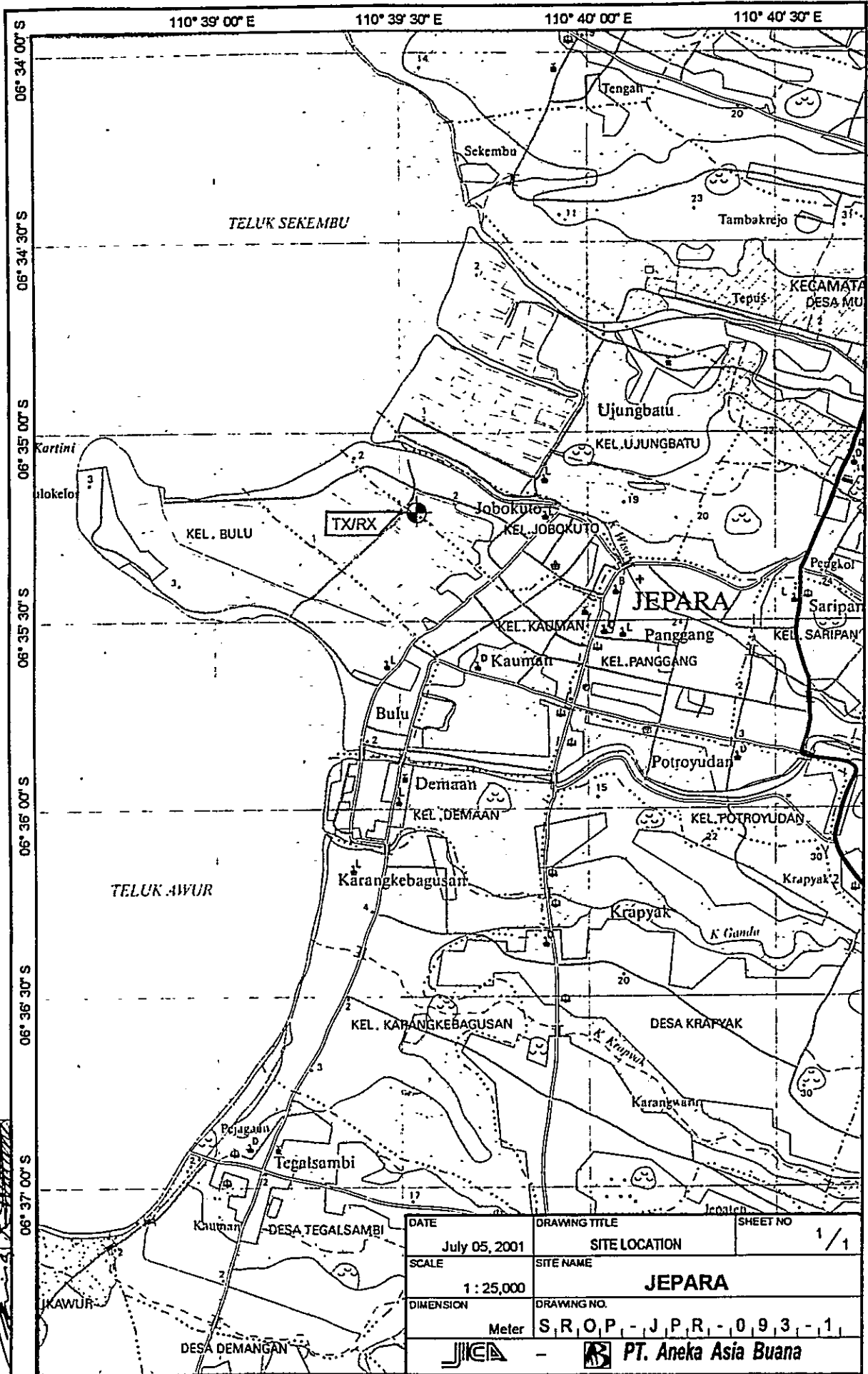
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|---|--------|-----------|--------------|------|-----------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | 1 | Transmitter SSB Transceiver | | 01278 | ICOM | 1989 | | | Good |
| 2 | | Tower & Antenna System | | | | | | | |
| 2-1 | 1 | Tower & Mast Antenna Pipe Pole | | | | | | | Damaged |
| 2-2 | 1 | Antenna Selector Antenna Automatic Tuner | AT-120 | | ICOM | 1989 | | | Damaged |
| 3 | | Power Supply Equipment | | | | | | | |
| 3-1 | 1 | UPS & AVR DC Power Supply | | DV4010 | RTCV | 1994 | | | Good |
| 4 | | Others | | | | | | | |
| | 1 | Fan | | | Sanyo | 1989 | | | Damaged |
| | 2 | Typewriter | | | Royal | 1989 | | | Damaged |

STATUS OF TROUBLES

SITE NAME : JEPARA

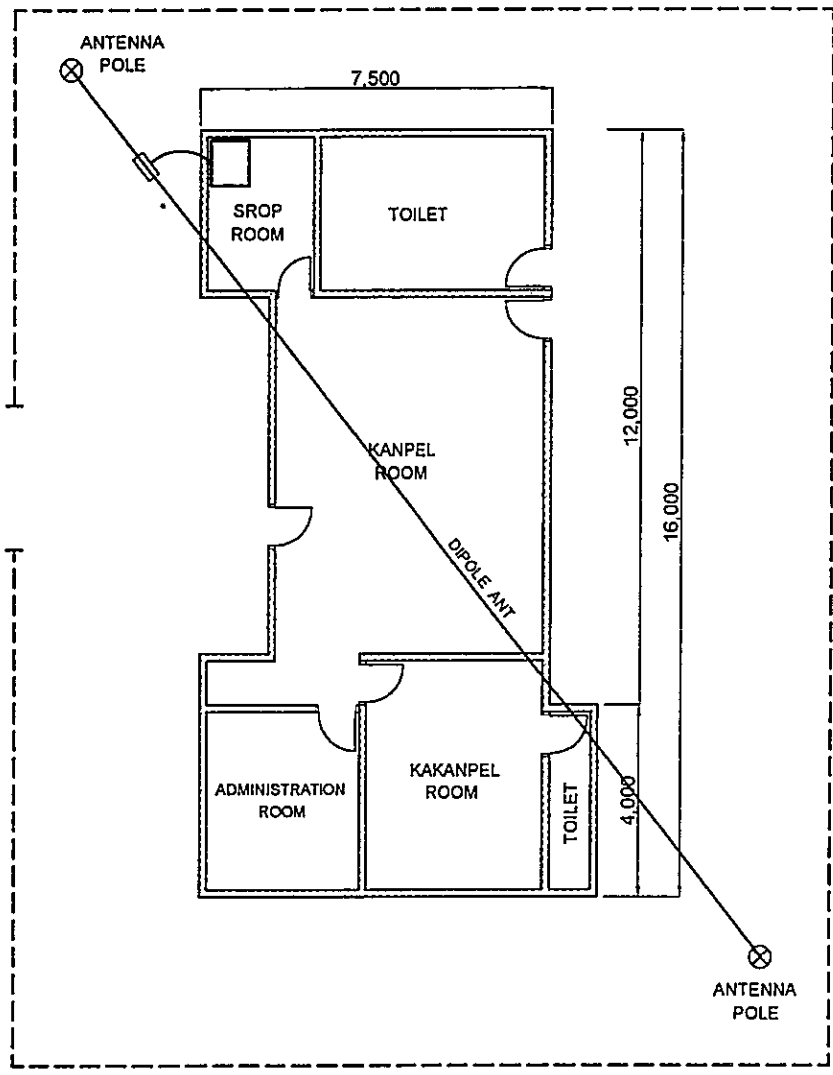
JPR-93-(1/1)

| | | | |
|--|---|---|--|
| Item / Equipment | Automatic Antenna Tuner / - | | |
| Manufacturer | Icom | | |
| Manufacturer in year | 1989 | | |
| Defective panel / unit | - | | |
| Details of Trouble Status | Cause doe to: | Urgency of Repair | |
| | <input checked="" type="checkbox"/> Aging | | |
| | <input type="checkbox"/> Lightning | | |
| | <input type="checkbox"/> Corrosion | | |
| | <input type="checkbox"/> Lack of Spares | | |
| | <input type="checkbox"/> Others | Repairing to be: | |
| | | <input checked="" type="checkbox"/> Immediacy | |
| | | <input type="checkbox"/> By next year budget | |
| | | <input type="checkbox"/> By next project | |
| | | <input type="checkbox"/> Unnecessary | |
| <u>General Comment for Maintenance:</u> | | | |
| Request for immediacy repairing of Antenna Tower and Automatic Antenna Tuner | | | |



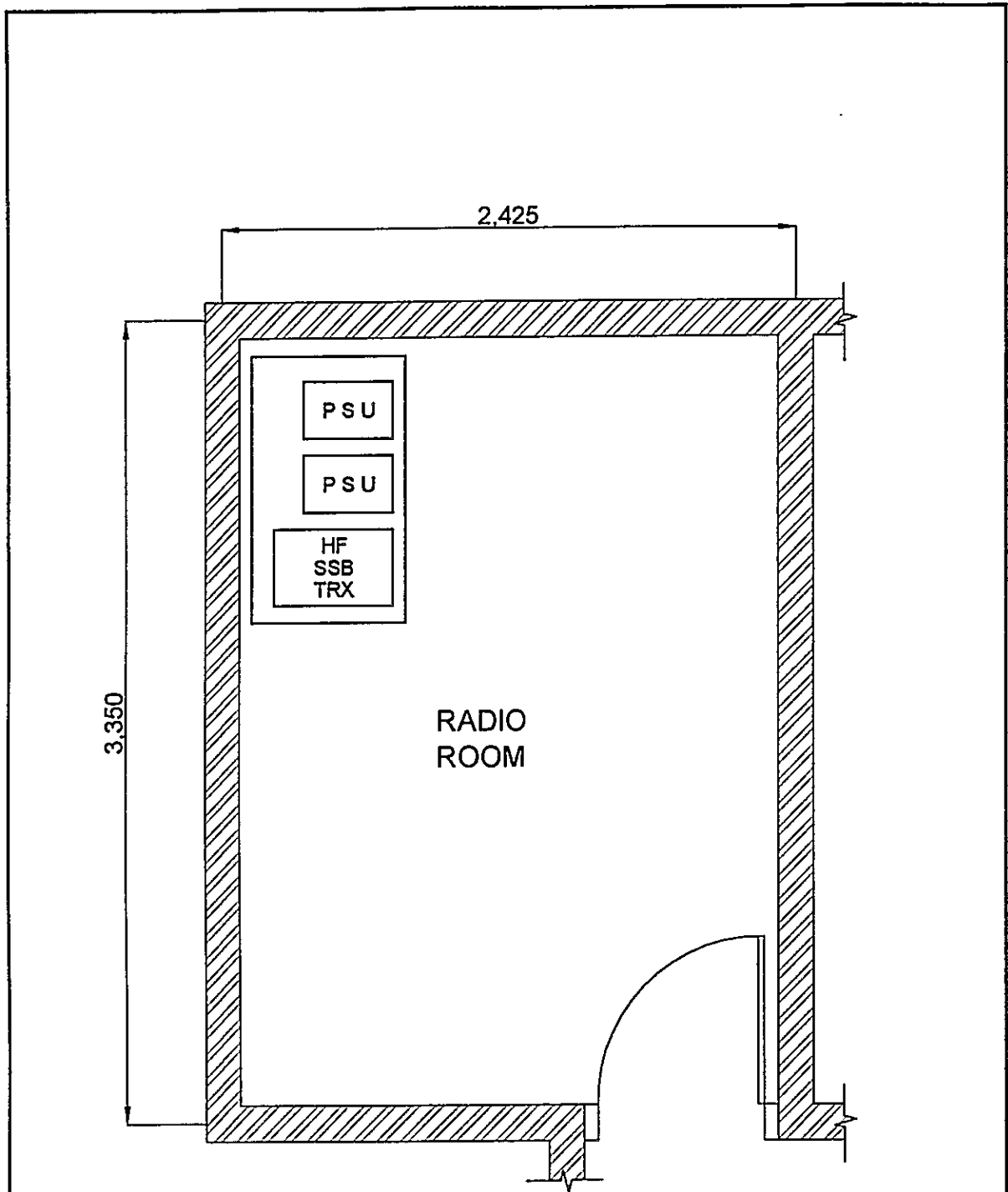
DRAWN BY AAB
 APPROVED BY JICA

| | | |
|-----------------------------|-----------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 05, 2001 | SITE LOCATION | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 25,000 | JEPARA | |
| DIMENSION | DRAWING NO. | |
| Meter | S.R.O.P. - J.P.R. - 093 - 1 | |
| PT. Aneka Asia Buana | | |



DRAWN BY AAB
 APPROVED BY JICA:

| | | |
|-------------------------|-----------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 25, 2001 | ANTENNA LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 150 | JEPARA | |
| DIMENSION | DRAWING NO | |
| Millimeter | S R O P - J P R - 0 9 3 - 2 | |
| - PT. Aneka Asia Buana | | |



LEGEND

- HF :HIGH FREQUENCY
- PSU :POWER SUPPLY UNIT
- TRX :TRANSCEIVER (ING)

DRAWN BY AAB
 APPROVED BY JCA

| | | |
|-------------------------|---|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 31, 2001 | EQUIPMENT FLOOR LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 25 | JEPARA | |
| DIMENSION | DRAWING NO | |
| Millimeter | S, R, O, P, -, J, P, R, -, 0, 9, 3, -, 3, 1 | |
| - PT. Aneka Asia Buana | | |

DIPOLE ANT



ANTENNA
TUNER



HF
SSB
TRX

LEGEND

ANT . ANTENNA
HF HIGH FREQUENCY
TRX . TRANSCIVER (ING)

APPROVED BY JICA :

DRAWN BY AAB :

| | | |
|---|--|-------------------|
| DATE July 27, 2001 | DRAWING TITLE SYSTEM BLOCK DIAGRAM | SHEET NO 1 / 1 |
| SCALE No Scale | SITE NAME JEPARA | |
| DIMENSION Milimeter | DRAWING NO S.R.O.P. - J P R. - 0 9 3 - 5 | |
|  - |  PT. Aneka Asia Buana | |

PLN LINE
AC 220V, 2W, 1Ø



POWER
SUPPLY
UNIT

TO HF
TRX

LEGEND

AC : ALTERNATING CURRENT
HF : HIGH FREQUENCY
TRX : TRANSCEIVER (ING)
V : VOLT
W WIRE
Ø PHASE

DRAWN BY AAB
 APPROVED BY JICA

| | | |
|--|---|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 27, 2001 | POWER BLOCK DIAGRAM | 1 / 1 |
| SCALE | SITE NAME | |
| No Scale | JEPARA | |
| DIMENSION | DRAWING NO. | |
| Milimeter | S, R, O, P, -, J, P, R, -, 0, 9, 3, -, 6, | |
|  -  PT. Aneka Asia Buana | | |

**THE STUDY FOR
MARITIME TRAFFIC SAFETY SYSTEM DEVELOPMENT PLAN
IN THE REPUBLIC OF INDONESIA**

**Maritime Telecommunication Facilities:
Inventory, Plant Records and
Outlook-2001**

**SUB DISTRICT NAVIGATION AREA (10)
CILACAP**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

Sub District Navigation Area (10) Cilacap

Table of Content

| | | | |
|--------|----|---------|-----------|
| DISNAV | 10 | Cilacap | Sub |
| SROP | 94 | Cilacap | 2nd Class |

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

**Sub District Navigation Office (Area-10)
Cilacap**

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)
- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|--------------------------|-------|---------|-----|----|
| SUMMARY OF DISNAV | SITE | CILACAP | | |
| | CLASS | Sub | NO. | 10 |

| | | | | |
|---------------------------------|-------------|-------------|----------------|-----------------|
| 1. LOCATION | | | | |
| Address | Tel. | Fax | Longitude | Latitude |
| Jl. Laut Jawa Pelabuhan Cilacap | 0282-534785 | 0282-531373 | 109° 02' 38" E | 07° 44' 07.8" S |

| | | | | |
|---|---|---|---|------------|
| 2. GENERAL CONDITIONS | | | | |
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air to Yogyakarta [Taking time: 0.50 hr] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Car to Cilacap [Taking time: 5.00 hr] | <input checked="" type="checkbox"/> Paved | <input type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | <input type="checkbox"/> Unpaved road | <input checked="" type="checkbox"/> Light | | |
| | | <input type="checkbox"/> None | | |

| | |
|---------------------------------------|---------------------------|
| 3. CONDITIONS OF DISNAV OFFICE | Refer to attached drawing |
|---------------------------------------|---------------------------|

| | | | | |
|--|--|------------------------------------|---|---|
| 3.1 Site Conditions | | | | |
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system |
| <input checked="" type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes No |
| <input type="checkbox"/> Slope | <input checked="" type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input type="checkbox"/> <input checked="" type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | | <input type="checkbox"/> <input checked="" type="checkbox"/> Lightning system |
| Altitude | 291 m | | Telephone Lines | <input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way |
| Land area | 4,942 m ² | | <input checked="" type="checkbox"/> 2 Lines | <input type="checkbox"/> <input checked="" type="checkbox"/> City water |
| 3.2 Building Conditions | | 3.3 Power Source | | |
| Constructions | | PLN Source | E/G | Existing Power Conditions |
| Num. of story | One | Voltage | 220 V | V |
| Structure | Concrete | Phase | | <input type="checkbox"/> <input type="checkbox"/> Power Supply System |
| Type of roof | Roof Tile | Wire | | <input type="checkbox"/> <input type="checkbox"/> Operations of E/G |
| Type of ceiling | Plasterboard | kVA | | <input type="checkbox"/> <input type="checkbox"/> Operations of AVR |
| Type of wall | Mortar | Quality of PLN source | | Capacity of fuel for engine |
| Wall finish | Mortar | Fluctuations | V ± % | Day tank |
| Flooring | Ceramic | Availability of power per day | Hours | Main tank |
| Room Area (m ²) | | Power interruption /month | Times | E/G Stand-by System |
| Operation room | | Total interpt. hours /month | Hours | <input type="checkbox"/> Single System |
| E / G room | | Max. interpt hours at once | Hours | <input type="checkbox"/> Dual System |
| Remark | | | | |

| | | | | | | | | |
|---|-------------------------------------|--|--|--------------------------------|----------|----------|--------|---------|
| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
| Actions taken in equipment failure | | | | | | | | |
| Restoration flow | Report and Visual distribution | | | Chief | 1 | | | |
| Examples of major failure | Antenna, Power Amplifier | | | Operator (skilled) | () | | | |
| Sufficiency of spares | Not available | | | Technician (skilled) | () | | | |
| Records of damages | | Environmental Conditions | | Administrator | 26 | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | External noises | Total 27 | | | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Air pollution | | | | |
| <input type="checkbox"/> Other calamity | | | | | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |

| | | | | |
|--------------------------|-------|---------|----|----|
| SUMMARY OF DISNAV | SITE | CILACAP | | |
| | CLASS | Sub | NO | 10 |

| 6. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
|---|----|-----|-----|------|----------------------------------|-----------|--------|---------|-------|-----------|--------|---------|
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

| 7. COMMENTS | |
|-------------|------------------------------|
| Suggestion | Training for human resources |
| Remarks | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

2nd Class Coast Station Cilacap (Coast Station No. 94)

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)

TRX Drawings:

- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|---------------------------------|-------|---------|-----|----|
| SUMMARY OF COAST STATION | SITE | CILACAP | | |
| | CLASS | (2nd) | NO. | 94 |

| 1. LOCATION | | | | | |
|-------------|------------------------|-------------|-----|----------------|---------------|
| Station | Address | Tel. | Fax | Longitude | Latitude |
| TX/RX | Jl. Laut Jawa, Cilacap | 0282-533363 | | 109° 02' 23" E | 07° 44' 25" S |

| 2. GENERAL CONDITIONS | | | | | |
|-----------------------|------------------------------------|---|--|---|------------|
| Moving from Jakarta | | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air | to Yogya [Taking time: 0.50 hr.] | <input type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Car | to Cilacap [Taking time: 5:00 hr.] | <input checked="" type="checkbox"/> Paved | <input checked="" type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | | <input type="checkbox"/> Unpaved road | <input type="checkbox"/> Light | | |
| | | | <input type="checkbox"/> None | | |

| 3. CONDITIONS OF STATION | Refer to attached drawing |
|--------------------------|---------------------------|
|--------------------------|---------------------------|

| 3.1 Site Conditions | | | | | |
|--|---|------------------------------------|---|-------------------------------------|--|
| Topography | Nature of Soil | | Past disaster of site | Confirmation of existing system | |
| <input checked="" type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | <input type="checkbox"/> Flood | Yes | No |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> Flood Tide | <input checked="" type="checkbox"/> | <input type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> Rain Leakage | <input checked="" type="checkbox"/> | <input type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | | <input type="checkbox"/> Ground Subsidence | <input checked="" type="checkbox"/> | <input type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input checked="" type="checkbox"/> Sandy | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> Lightning system |
| Altitude | 3.00 M | | Telephone Lines | <input checked="" type="checkbox"/> | <input type="checkbox"/> Feeder Cable Way |
| Land area | 4,412 m ² | | <input checked="" type="checkbox"/> 2 Lines | <input type="checkbox"/> | <input checked="" type="checkbox"/> City water |
| 3.2 Building Conditions | | | 3.3 Power Source | | |
| Constructions | | PLN Source | E/G | Existing Power Conditions | |
| Num. of story | One | Voltage | 220 V | 220 V | Good Bad |
| Structure | Concrete | Phase | 3 | 1 | <input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System |
| Type of roof | Concrete | Wire | 4 | 2 | <input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G |
| Type of ceiling | Plasterboard | kVA | 11 | 7.5/5 | <input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR |
| Type of wall | Brick | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | Mortar | Fluctuations | 20 V ± 0.9 % | | Day tank |
| Flooring | Ceramic | Availability of power per day | 24 Hours | | 100 Liter |
| Room Area (m ²) | | Power interruption /month | 1 Times | | E/G Stand-by System |
| Operation room | 210.00 | Total interpt. hours /month | 4 Hours | | <input type="checkbox"/> Single System |
| E / G room | 40.00 | Max. interpt. hours at once | 5 Hours | | <input checked="" type="checkbox"/> Dual System |
| Remark | | | | | |

| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
|---|-------------------------------------|--|--|-------------------------|-------|----------|--------|---------|
| Actions taken in equipment failure | | | | | | TX/RX | | |
| Restoration flow | Report and Visual detection | | | Chief | | 1 | | |
| Examples of major failure | Antenna Coupler, Power Amplifier | | | Operator (skilled) | | 10 (10) | | (0) |
| Sufficiency of spares | Not available | | | Technician (skilled) | | 3 (0) | | (0) |
| Records of damages | | Environmental Conditions | | Administrator | | 1 | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | External noises | Total | 15 | | |
| <input type="checkbox"/> Lightning | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Air pollution | | | | |
| <input type="checkbox"/> Other calamity | | | | | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | Pre | I | Jakarta | 1997 | 1 |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | Pre | II | Surabaya | 1998 | 1 |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input checked="" type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | Oru | Oru | Jakarta | 1976 | 2 |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input checked="" type="checkbox"/> Not enough | Oru | Oru | Yogya | 1997 | 8 |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | TTP | III | Jakarta | 1990 | 1 |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input checked="" type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |

| | | | | |
|---------------------------------|--------------|----------------|------------|-----------|
| SUMMARY OF COAST STATION | SITE | CILACAP | | |
| | CLASS | (2nd) | NO. | 94 |

6. STATISTICAL COMMUNICATION TRAFFIC DATA

| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
|------------------------|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | 330 | 1996 | | | 362 |
| 1997 | | | | | 1992 | | | 348 | 1997 | | | 101 |
| 1998 | | | | | 1993 | | | 355 | 1998 | | | 152 |
| 1999 | | | | | 1994 | | | 370 | 1999 | | | 136 |
| 2000 | | | | | 1995 | | | 367 | 2000 | | | 88 |

7. COMMENTS

| | |
|-------------------|--|
| Suggestion | Mostly capability of human resources in Radio Station is low, it is necessary upgrading by training. A or B site are expensive, it is necessary to find another alternative new site. |
| Remarks | |

INVENTORY

Site Name: Cilacap

CLP-094- (1 / 3)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-------|----------------|-----------------------------------|------------|-----------|--------------|------|------------------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | 1 | 1 kW Transmitter | | 2908/S01 | Philips | 1972 | | | Damaged |
| | 2 | 500 W Transmitter | | 2908/S01 | Philips | 1972 | | | Damaged |
| | 3 | HF Transceiver | IC-M700TY | 3077 | ICOM | 1993 | PFKP | | Good |
| 1-2 | | Operator Console/Desk/Rack | | | | | | | |
| 1-2-1 | 1 | HF Console | | | Kenwood | 1996 | | | Good |
| | 1 | HF Radio Console | | | | | | | |
| 1-2-2 | | MF/HF Console | | | | | | | |
| | 1 | MF/HF Radio Console | JSS-270 | BP-21458 | JRC | 1982 | | | Damaged |
| | 2 | GMDSS Radio Console | | | Sailor | 1997 | | | Good |
| 1-3 | | VHF System | | | | | | | |
| | 1 | 50W VHF RFC CH.12, 14, 16, 20, 22 | 150/AT/806 | 1345 | RC | 1980 | Rutine Provision | | Damaged |
| | 2 | 50W VHF Transceiver | DR-150E | T00682 | ALINCO | 1995 | | | Damaged |
| | 3 | 50W VHF Transceiver | DR-150E | T00682 | ALINCO | 1995 | | | Good |
| | 4 | VHF Antenna Tuner | CNW-919DX | | DAIWA | 1986 | | | Good |
| 2 | | Tower & Antenna System | | | | | | | |
| 2-1 | | Tower & Mast | | | | | | | |
| | | TX Station | | | | | | | |
| | 1 | 25mH Self Supporting | | | | 1994 | | | Good |
| | 2 | 25mH Self Supporting | | | | 1994 | | | Good |
| | 3 | 25mH Self Supporting | | | | 1994 | | | Good |
| | 4 | 16mH Guy Pole | | | | 1982 | | | Good |
| | 5 | 16mH Guy Pole | | | | 1982 | | | Good |
| | 6 | 20mH Guy Pole | | | | 1993 | | | Good |

INVENTORY

Site Name: Cilacap

CLP-094- (2/3)

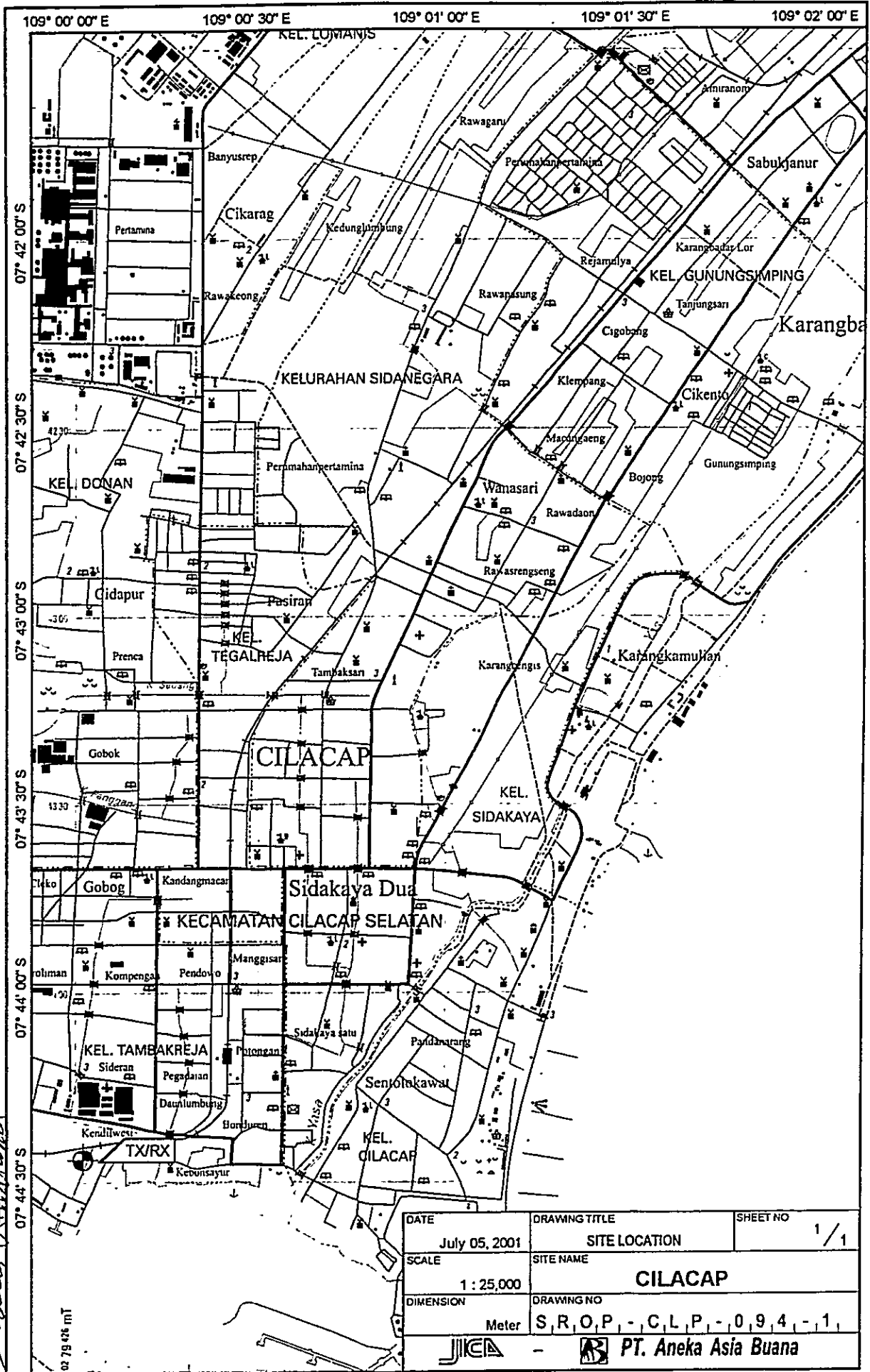
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-----|----------------|-------------------------------|------------|------------|--------------|------|-----------|--------------------|-----------|
| 2-2 | | Antenna System TX Station | | | | | | | |
| 1 | | 2W T Type Antenna | | | | 1997 | | | Good |
| 2 | | 2W T Type Antenna | | | | 1997 | | | Good |
| 3 | | Inverted "L" Antenna | | | | 1993 | | | Good |
| 4 | | Inverted "L" Antenna | | | | 1982 | | | Good |
| 5 | | Dipole Antenna | | | | 1982 | | | Good |
| 6 | | HF/MF Whip Antenna | | | | 1982 | | | Good |
| 7 | | HF/MF Whip Antenna | | | | 1982 | | | Good |
| 8 | | HF/MF Whip Antenna | | | | 1982 | | | Good |
| 9 | | HF/MF Whip Antenna | | | | 1982 | | | Good |
| 10 | | VHF Whip Antenna | | | | | | | Good |
| 11 | | VHF Whip Antenna | | | | | | | Good |
| 12 | | VHF Whip Antenna | | | | | | | Good |
| 13 | | VHF Whip Antenna | | | | | | | Good |
| 14 | | VHF Whip Antenna | | | | | | | Good |
| 15 | | VHF Whip Antenna | | | | | | | Good |
| 16 | | VHF Whip Antenna | | | | | | | Good |
| 3 | | Power Supply Equipment | | | | | | | |
| 3-1 | | UPS & AVR | | | | | | | |
| 1 | | Accu Charger | | | | | | | Damaged |
| 2 | | Accu Charger | | | | 1984 | | | Good |
| 3 | | Accu Charger | | | | | | | Good |
| 4 | | AVR | 3510 | | | | | | Good |
| 5 | | AVR | SVC-2000NS | | | | | | Good |
| 6 | | AVR | TKD-1742 | | | | | | Good |
| | | | RE-9009-2 | | | 1997 | | | Good |
| 3-2 | | Engine Generator | | | | | | | |
| 1 | | Generator (5kVA) | | 48947 | SAMOYA | 1972 | | | Damaged |
| 2 | | Generator (7.5kVA) | | CQ74888/21 | KUBOTA | 1997 | | | Good |

INVENTORY

Site Name: Cilacap

CLP-094- (3 / 3)

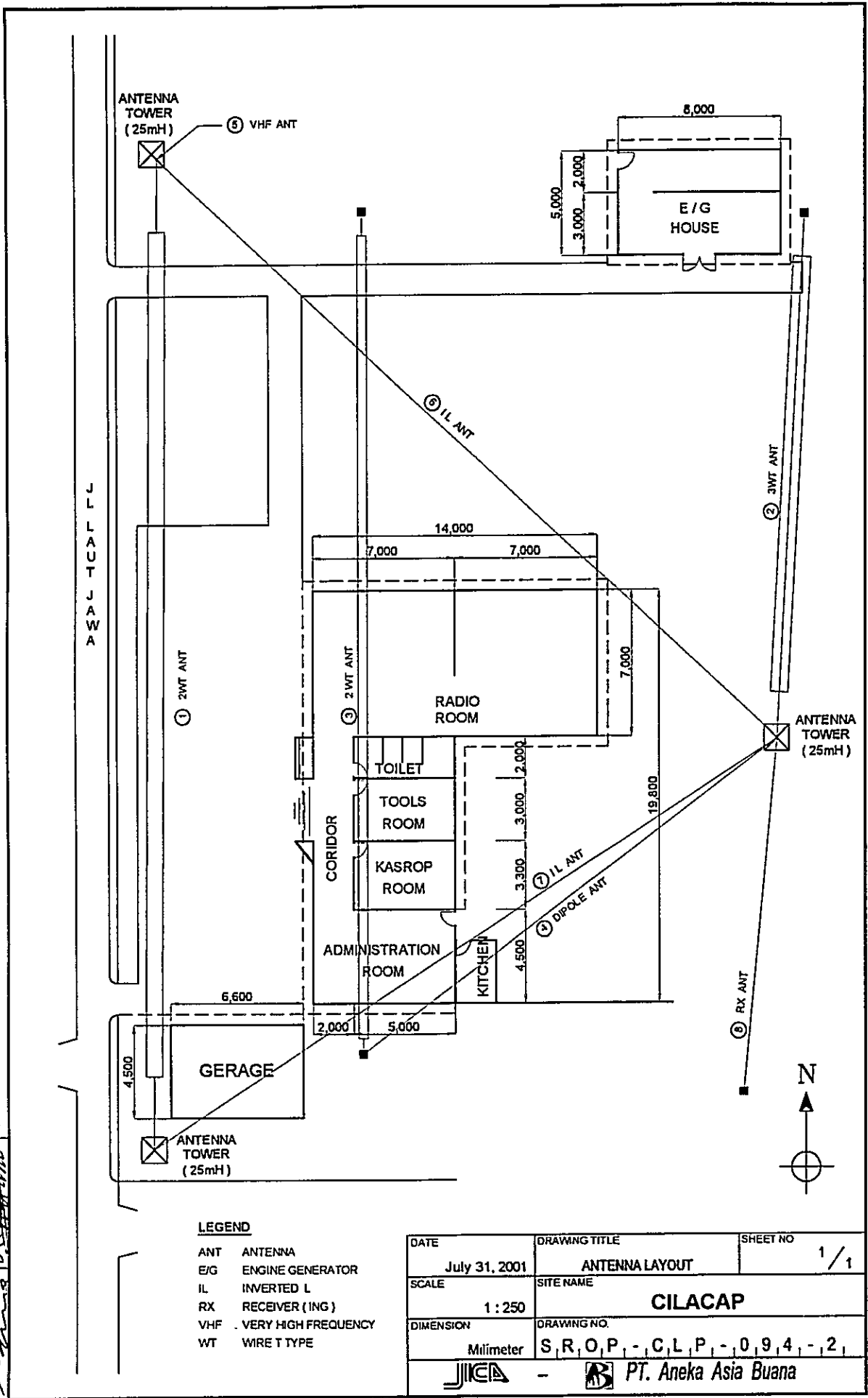
| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|----|----------------|---|--|-----------|--|--|----------------------|--------------------|--|
| 4 | | Measuring Equipment Universal AVO Meter Oscilloscope Frequency Counter | YX-360TB V-352F M88260 | | SUNWA HITACHI ANRITSU | 1990 1982 1982 | | | Good Good Good |
| 5 | | Others Air Conditioner Air Conditioner Air Conditioner Telex Telex Telex | Split Split Split LC-133 LC-133 T-1000S | | SANYO SANYO SANYO LORENZ LORENZ Siemens | 1994 1994 1994 1979 1979 1996 | PFKP PFKP PFKP | | Damaged Damaged Damaged Damaged Damaged Damaged |



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 DRAWN BY AAB

| | | |
|---------------|--|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 05, 2001 | SITE LOCATION | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 25,000 | CILACAP | |
| DIMENSION | DRAWING NO | |
| Meter | S, R, O, P, -, C, L, P, -, 0, 9, 4, -, 1 | |
| | | |

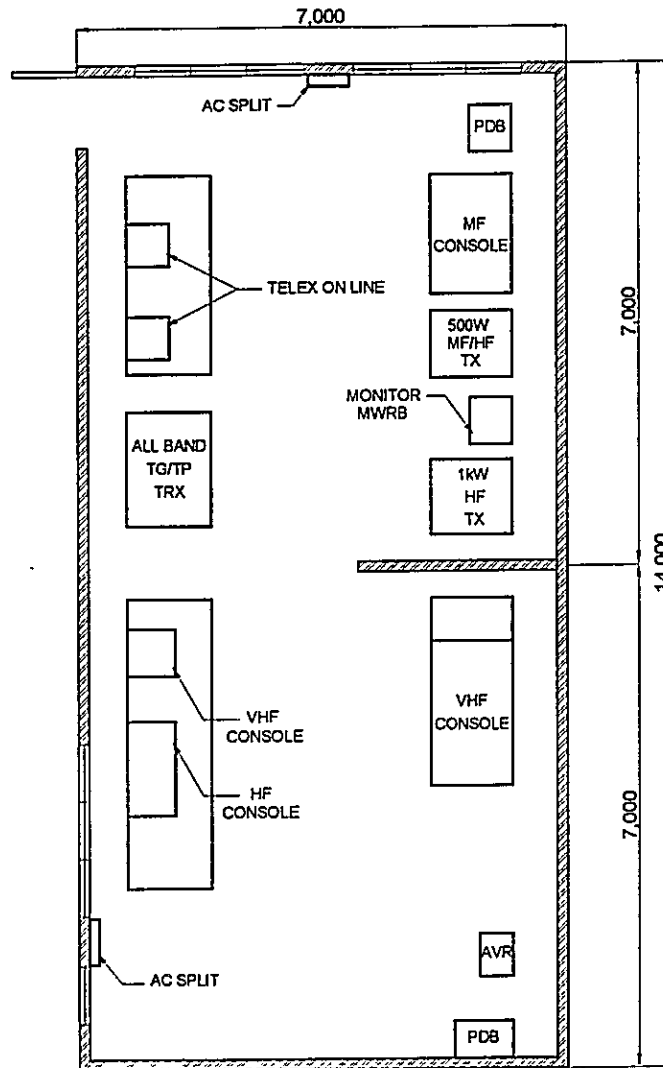
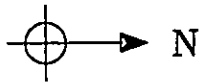
02 79 026 mT



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 DRAWN BY AAB

- LEGEND**
- ANT ANTENNA
 - E/G ENGINE GENERATOR
 - IL INVERTED L
 - RX RECEIVER (ING)
 - VHF VERY HIGH FREQUENCY
 - WT WIRE T TYPE

| | | |
|-------------------------|-----------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 31, 2001 | ANTENNA LAYOUT | 1 / 1 |
| SCALE | SITE NAME | |
| 1 : 250 | CILACAP | |
| DIMENSION | DRAWING NO. | |
| Milimeter | S R O P - C L P - 0 9 4 - 2 | |
| - PT. Aneka Asia Buana | | |



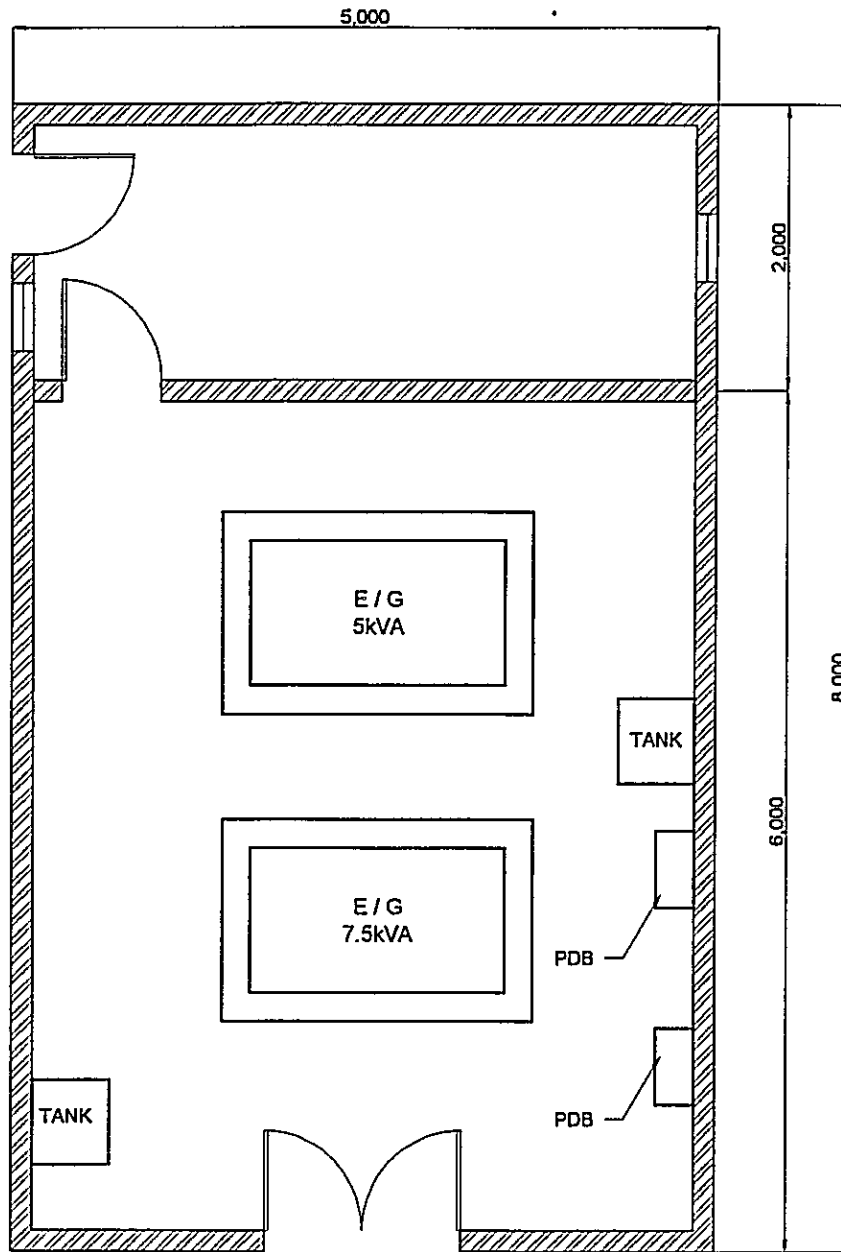
LEGEND

- AVR AUTOMATIC VOLTAGE REGULATOR
- HF HIGH FREQUENCY
- PDB POWER DISTRIBUTION FRAME
- TG TELEGRAPHY
- TP TELEPHONY
- TX TRANSMITTER (ING)
- VHF VERY HIGH FREQUENCY

DRAWN BY AAB

APPROVED BY JICA

| | | |
|---------------|--|----------|
| DATE | DRAWING TITLE | SHEET NO |
| June 19, 2001 | EQUIPMENT FLOOR LAYOUT | 1/1 |
| SCALE | SITE NAME | |
| 1:100 | CILACAP | |
| DIMENSION | DRAWING NO | |
| Millimeter | S, R, O, P, - C, L, P, - 0, 9, 4, - 3, | |
| | | |





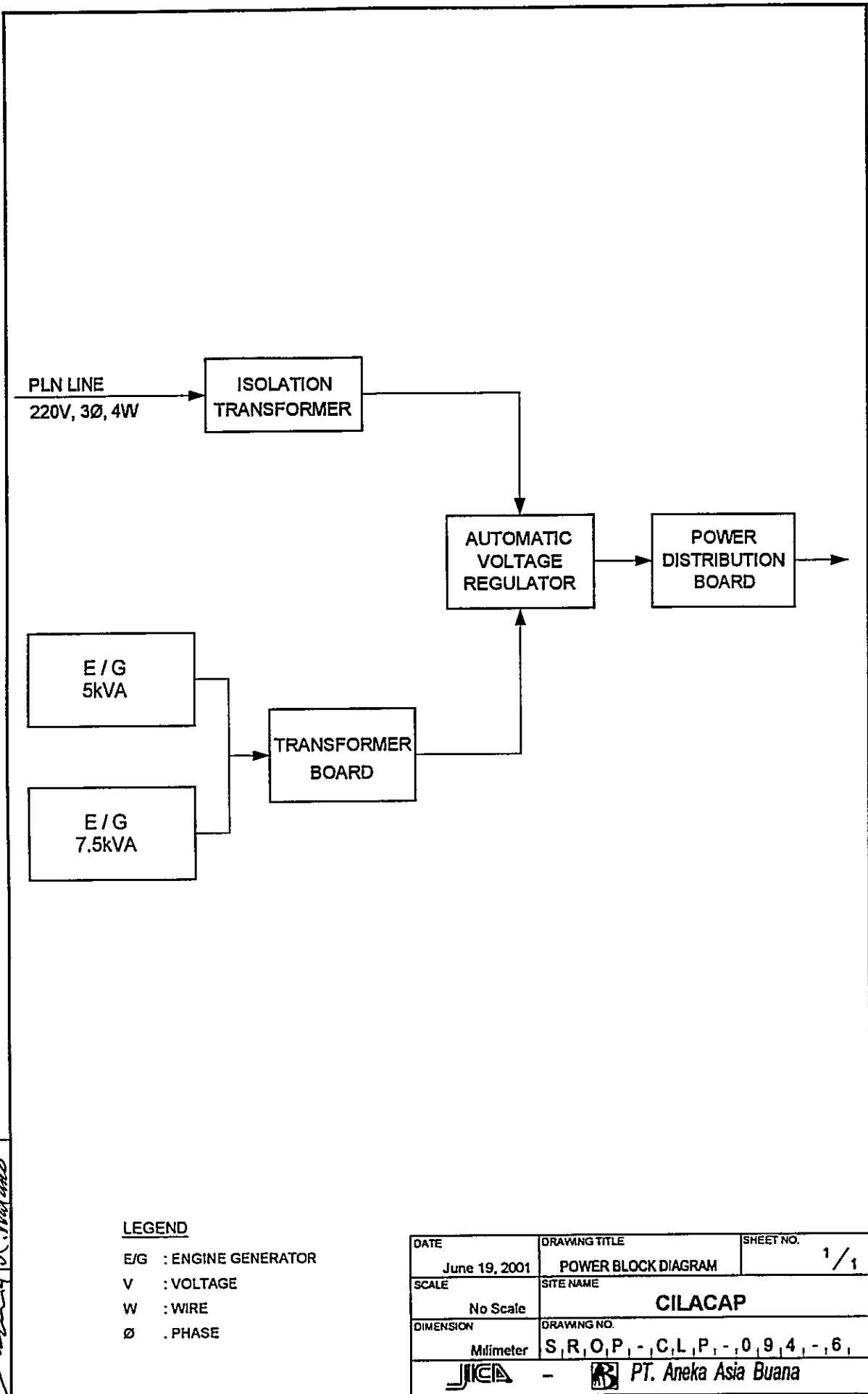
LEGEND

E/G : ENGINE / GENERATOR
 PDB : POWER DISTRIBUTION BOARD

APPROVED BY JICA

DRAWN BY AAB

| | | |
|--|---|-----------------|
| DATE June 19, 2001 | DRAWING TITLE E/G FLOOR LAYOUT | SHEET NO 1/1 |
| SCALE 1 : 50 | SITE NAME CILACAP | |
| DIMENSION Millimeter | DRAWING NO. S, R, O, P, - C, L, P, - 0, 9, 4, - 4, | |
|  -  PT. Aneka Asia Buana | | |



DRAWN BY AAB
 APPROVED BY JICA

LEGEND

- E/G : ENGINE GENERATOR
- V : VOLTAGE
- W : WIRE
- Ø . PHASE

| | | |
|-------------------------|--|------------------|
| DATE June 19, 2001 | DRAWING TITLE POWER BLOCK DIAGRAM | SHEET NO. 1/1 |
| SCALE No Scale | SITE NAME CILACAP | |
| DIMENSION Milimeter | DRAWING NO. S, R, O, P, -, C, L, P, -, 0, 9, 4, -, 6, | |
| - PT. Aneka Asia Buana | | |

**THE STUDY FOR
MARITIME TRAFFIC SAFETY SYSTEM DEVELOPMENT PLAN
IN THE REPUBLIC OF INDONESIA**

**Maritime Telecommunication Facilities:
Inventory, Plant Records and
Outlook-2001**

**1ST CLASS DISTRICT NAVIGATION AREA (11)
SURABAYA**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

1st Class District Navigation Area (11) Surabaya

Table of Content

| | | | |
|--------|-----|-------------|-------------|
| DISNAV | 11 | Surabaya | 1st Class |
| KANWIL | 10 | Surabaya | |
| KPLP | 10 | Surabaya | |
| SROP | 95 | Surabaya | 1st Class |
| | 96 | Panarukan | 4th-A Class |
| | 97 | Kali Anget | 4th-A Class |
| | 98 | Meneng | 4th-A Class |
| | 99 | Gresik | 4th-A Class |
| | 100 | Probolinggo | 4th-A Class |
| | 101 | Bawean | 4th-A Class |
| | 102 | Pasuruan | 4th-A Class |
| | 103 | Masalembo | 4th-A Class |
| | 104 | Branta | 4th-B Class |
| | 105 | Tuban | 4th-B Class |
| | 106 | Besuki | 4th-B Class |

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

**1st Class District Navigation Office (Area-11)
Surabaya**

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)
- Site Location
- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | | |
|--------------------------|--------------|-----------------|------------|----|
| SUMMARY OF DISNAV | SITE | SURABAYA | | |
| | CLASS | 1st | NO. | 11 |

| | | | | |
|--|-------------|-------------|------------------|-----------------|
| 1. LOCATION | | | | |
| Address | Tel. | Fax | Longitude | Latitude |
| Jl. Perak Barat No. 435A, Surabaya 60117 | 031-3291964 | 031-3291964 | 112° 44' 00" E | 07° 11' 58" S |

| | | | | |
|---|---|--|---|-------------------|
| 2. GENERAL CONDITIONS | | | | |
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air to Surabaya [Taking time: 1.00 hr] | <input checked="" type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Car to Location [Taking time: 0.50 hr] | <input type="checkbox"/> Paved | <input checked="" type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | <input type="checkbox"/> Unpaved road | <input type="checkbox"/> Light | | |
| | | <input type="checkbox"/> None | | |

| | |
|---------------------------------------|---------------------------|
| 3. CONDITIONS OF DISNAV OFFICE | Refer to attached drawing |
|---------------------------------------|---------------------------|

| | | | |
|--|--|--|---|
| 3.1 Site Conditions | | | |
| Topography | Nature of Soil | Past disaster of site | Confirmation of existing system |
| <input checked="" type="checkbox"/> Flat | <input checked="" type="checkbox"/> Dry soil | <input type="checkbox"/> Flood | Yes No |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input checked="" type="checkbox"/> Flood Tide | <input type="checkbox"/> <input checked="" type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rain Leakage | <input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | <input type="checkbox"/> Ground Subsidence | <input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | | <input type="checkbox"/> <input type="checkbox"/> Lightning system |
| Altitude | 2 m | Telephone Lines | <input type="checkbox"/> <input type="checkbox"/> Feeder Cable Way |
| Land area | 2,160 m ² | <input checked="" type="checkbox"/> 2 Lines | <input type="checkbox"/> <input type="checkbox"/> City water |

| | | | | | |
|----------------------------------|----------|------------------------------------|-------------|--|---|
| 3.2 Building Conditions | | 3.3 Power Source | | | |
| Constructions | | PLN Source | E/G | Existing Power Conditions | |
| Num. of story | Three | Voltage | 220 V | 220 V | Good Bad |
| Structure | Concrete | Phase | 3 | 3 | <input type="checkbox"/> <input type="checkbox"/> Power Supply System |
| Type of roof | Asbestos | Wire | 4 | 4 | <input type="checkbox"/> <input type="checkbox"/> Operations of E/G |
| Type of ceiling | Asbestos | kVA | 33 | 55 | <input type="checkbox"/> <input type="checkbox"/> Operations of AVR |
| Type of wall | Brick | Quality of PLN source | | Capacity of fuel for engine | |
| Wall finish | Mortar | Fluctuations | 220 V ± 2 % | | Day tank 100 Liter |
| Flooring | Tile | Availability of power per day | 24 Hours | Main tank | 2 k Liter |
| Room Area (m²) | | Power interruption /month | 1 Times | E/G Stand-by System | |
| Operation room | 240 | Total interpt. hours /month | 20 Hours | <input type="checkbox"/> Single System | |
| E / G room | 72 | Max. interpt. hours at once | 6 Hours | <input type="checkbox"/> Dual System | |
| Remark | | | | | |

| | | | | | | | | |
|---|-------------------------------------|-------------------------------------|---------------------------------------|--------------------------------|-------|----------|--------|---------|
| 4. OPERATION AND MAINTENANCE | | | | 5. PERSONNEL FORMATIONS | | | | |
| Actions taken in equipment failure | | | | | | | | |
| Restoration flow Maintenance/Repairment | | | | Chief | | | | |
| Examples of major failure | | | | Operator (skilled) () | | | | |
| Sufficiency of spares | | | | Technician (skilled) () | | | | |
| Records of damages | | Environmental Conditions | | Administrator | | | | |
| <input type="checkbox"/> Heavy rainfall | | Good | Bad | | | | | |
| <input type="checkbox"/> Storm | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | External noises | | | | |
| <input type="checkbox"/> Lightning | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Air pollution | | | | |
| <input type="checkbox"/> Other calamity | | | | Total | | | | |
| Institutional and Human Statuses | | | | Training Record | | | | |
| 1 Budget | <input type="checkbox"/> Sufficient | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Insufficient | Course | Class | Location | Period | Trainee |
| 2 Spares | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | GMDSS | II | Japan | 1995 | 3 |
| 3 Measuring eqpt /tools | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | TTP | II | Jakarta | 1994 | 2 |
| 4 Number of Operator | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | Operator | II | Jakarta | 1996 | 1 |
| 5 Number of Technician | <input type="checkbox"/> Enough | <input type="checkbox"/> Reasonable | <input type="checkbox"/> Not enough | | | | | |
| 6 Capability of Operator | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |
| 7 Capability of Technician | <input type="checkbox"/> Skilled | <input type="checkbox"/> Not so bad | <input type="checkbox"/> Not capable | | | | | |

| SUMMARY OF DISNAV | | | | | | SITE | SURABAYA | | | | | |
|---|---|-----|-----|------|----------------------------------|-----------|----------|---------|-------|-----------|--------|---------|
| | | | | | | CLASS | 1st | NO. | 11 | | | |
| 6. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |
| 7. COMMENTS | | | | | | | | | | | | |
| Suggestion | Considering to the information of human safety in the sea is very important and to support SAR operational, so expansion of Maritime Telecommunication Development is necessary | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | |

Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

**Kanwil Office (Disnav Area - 11)
Surabaya**

Table of Content

- Summary of Coast Station
- Inventory
- Status of Trouble
- Operation Schedule (Frequencies)
- Site Location

Drawings:

- Antenna Layout
- Equipment Floor Layout
- E/G Floor Layout
- System Block Diagram
- Power Block Diagram

Note :

- Available in this list
- Not Available in this list
- Unnecessary in this list

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

| | | | |
|--------------------------|--------------|-----------------|-----------|
| SUMMARY OF KANWIL | SITE | SURABAYA | |
| | CLASS | NO. | 11 |

| | | | | |
|--------------------|-------------|------------|------------------|-----------------|
| 1. LOCATION | | | | |
| Address | Tel. | Fax | Longitude | Latitude |
| | | | ° ' " | ° ' " |
| | | | | |

| | | | | |
|--|---|--|---|-------------------|
| 2. GENERAL CONDITIONS | | | | |
| Moving from Jakarta | Site Access from Port | Road Traffic | Accommodation | Population |
| By Air to Juanda [Taking time: 1:00 hr.] | <input checked="" type="checkbox"/> Highway | <input type="checkbox"/> Heavy | <input checked="" type="checkbox"/> Hotel | |
| By Car to Location [Taking time: 0:30 hr.] | <input type="checkbox"/> Paved | <input checked="" type="checkbox"/> Medium | <input type="checkbox"/> Motel | |
| | <input type="checkbox"/> Unpaved road | <input type="checkbox"/> Light | | |
| | | <input type="checkbox"/> None | | |

| | |
|---------------------------------------|---------------------------|
| 3. CONDITIONS OF KANWIL OFFICE | Refer to attached drawing |
|---------------------------------------|---------------------------|

| | | | |
|--|-----------------------------------|--|---|
| 3.1 Site Conditions | | | |
| Topography | Nature of Soil | Past disaster of site | Confirmation of existing system |
| <input checked="" type="checkbox"/> Flat | <input type="checkbox"/> Dry soil | <input type="checkbox"/> Limestone | Yes No |
| <input type="checkbox"/> Slope | <input type="checkbox"/> Ordinary | <input type="checkbox"/> Gravel | <input type="checkbox"/> <input checked="" type="checkbox"/> Antenna |
| <input type="checkbox"/> Hill-top | <input type="checkbox"/> Swampy | <input type="checkbox"/> Rocky | <input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts) |
| <input type="checkbox"/> Basin | <input type="checkbox"/> Clay | <input type="checkbox"/> Flood | <input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system |
| <input type="checkbox"/> Valley | <input type="checkbox"/> Sandy | <input type="checkbox"/> Flood Tide | <input type="checkbox"/> <input checked="" type="checkbox"/> Lightning system |
| Altitude | m | <input type="checkbox"/> Rain Leakage | <input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way |
| Land area | m ² | <input type="checkbox"/> Ground Subsidence | <input type="checkbox"/> <input checked="" type="checkbox"/> City water |
| | | Telephone Lines | |
| | | <input type="checkbox"/> Lines | |

| | |
|----------------------------------|--|
| 3.2 Building Conditions | 3.3 Power Source |
| Constructions | PLN Source |
| Num. of story | Voltage V |
| Structure | Phase |
| Type of roof | Wire |
| Type of ceiling | kVA |
| Type of wall | Quality of PLN source |
| Wall finish | Fluctuations V ± % |
| Flooring | Availability of power per day Hours |
| Room Area (m²) | Capacity of fuel for engine |
| Operation room | Day tank Liter |
| E / G room | Main tank k Liter |
| Remark | E/G Stand-by System |
| No data. | <input type="checkbox"/> Single System |
| | <input type="checkbox"/> Dual System |

| | |
|---|---|
| 4. OPERATION AND MAINTENANCE | 5. PERSONNEL FORMATIONS |
| Actions taken in equipment failure | |
| Restoration flow | Chief |
| Examples of major failure | Operator (skilled) () |
| Sufficiency of spares | Technician (skilled) () |
| Records of damages | Environmental Conditions |
| <input type="checkbox"/> Heavy rainfall | Good Bad |
| <input type="checkbox"/> Storm | <input type="checkbox"/> <input checked="" type="checkbox"/> External noises |
| <input type="checkbox"/> Lightning | <input type="checkbox"/> <input checked="" type="checkbox"/> Air pollution |
| <input type="checkbox"/> Other calamity | Administrator |
| Institutional and Human Statuses | |
| 1 Budget | <input type="checkbox"/> Sufficient <input type="checkbox"/> Reasonable <input type="checkbox"/> Insufficient |
| 2 Spares | <input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input type="checkbox"/> Not enough |
| 3 Measuring eqpt./tools | <input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input type="checkbox"/> Not enough |
| 4 Number of Operator | <input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input type="checkbox"/> Not enough |
| 5 Number of Technician | <input type="checkbox"/> Enough <input type="checkbox"/> Reasonable <input type="checkbox"/> Not enough |
| 6 Capability of Operator | <input type="checkbox"/> Skilled <input type="checkbox"/> Not so bad <input type="checkbox"/> Not capable |
| 7 Capability of Technician | <input type="checkbox"/> Skilled <input type="checkbox"/> Not so bad <input type="checkbox"/> Not capable |
| Training Record | |
| | Course Class Location Period Trainee |

| | | | | |
|--------------------------|--------------|-----------------|-----------|--|
| SUMMARY OF KANWIL | SITE | SURABAYA | | |
| | CLASS | NO. | 11 | |

| 6. STATISTICAL COMMUNICATION TRAFFIC DATA | | | | | | | | | | | | |
|--|-----------|------------|------------|-------------|---|------------------|---------------|----------------|--------------|------------------|---------------|----------------|
| Maritime Safety | | | | | Public Telecommunication Service | | | | | | | |
| Years | TG | TEL | DSC | NBDP | Years | Telephone | | TG Call | Years | Telephone | | TG Call |
| | | | | | | Call | Minute | | | Call | Minute | |
| 1996 | | | | | 1991 | | | | 1996 | | | |
| 1997 | | | | | 1992 | | | | 1997 | | | |
| 1998 | | | | | 1993 | | | | 1998 | | | |
| 1999 | | | | | 1994 | | | | 1999 | | | |
| 2000 | | | | | 1995 | | | | 2000 | | | |

| 7. COMMENTS | |
|--------------------|------------------------------------|
| Suggestion | |
| Remarks | All equipment stored on RX Station |

INVENTORY

Site Name: Kanwil Surabaya

KWIL-SBY-XI-(1/2)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-------|----------------|---------------------------------|----------|-----------|--------------|------|-------------|--------------------|-----------|
| 1 | | Radio Equipment | | | | | | | |
| 1-1 | | Operator Console/Desk/Rack | | | | | | | |
| 1-1-1 | | Console-II-I | NRD-93 | | JRC | 1989 | SAR Project | | |
| | | All Wave Receiving | NDII-93 | | JRC | 1989 | SAR Project | | |
| | | Spot Scanning Unit | NCH-300 | | JRC | 1989 | SAR Project | | |
| | | Telecontroller (TX) | NCG-95 | | JRC | 1989 | SAR Project | | |
| | | Telecontroller (RX) | NTE-26 | | JRC | 1989 | SAR Project | | |
| | | Air VHF Radio Telephone | NCT-60C | | JRC | 1989 | SAR Project | | |
| | | Digital Selective Calling | NQP-21 | | JRC | 1989 | SAR Project | | |
| | | Signal Controller | NVA-64 | | JRC | 1989 | SAR Project | | |
| | | Speaker Panel | J-70-P-b | | JRC | 1989 | SAR Project | | |
| | | Analog Clock | NKH-100 | | JRC | 1989 | SAR Project | | |
| | | Digital Clock | | | JRC | 1989 | SAR Project | | |
| | | Dialing Unit | | | JRC | 1989 | SAR Project | | |
| | | Headset (x2) | | | JRC | 1989 | SAR Project | | |
| | | Ancillaries | | | JRC | 1989 | SAR Project | | |
| | | Telephone Device (x2) | | | JRC | 1989 | SAR Project | | |
| | | 2182kHz A/A RX Monitor | | | JRC | 1989 | SAR Project | | |
| | | (TX) Telecontroller (For E) | | | JRC | 1989 | SAR Project | | |
| | | Fax | NCH-300 | | JRC | 1989 | SAR Project | | |
| | | TTY (x2) | | | JRC | 1989 | SAR Project | | |
| | | Telephony | | | JRC | 1989 | SAR Project | | |
| | | Telex | | | JRC | 1989 | SAR Project | | |
| 1-1-2 | | Power Supply Equipment | | | | | | | |
| | | Isolation Transformer 3kVA | | | JRC | 1989 | SAR Project | | |
| | | Battery Charger 24V, 20A | | | JRC | 1989 | SAR Project | | |
| | | Battery 60AH, 12cells | | | JRC | 1989 | SAR Project | | |

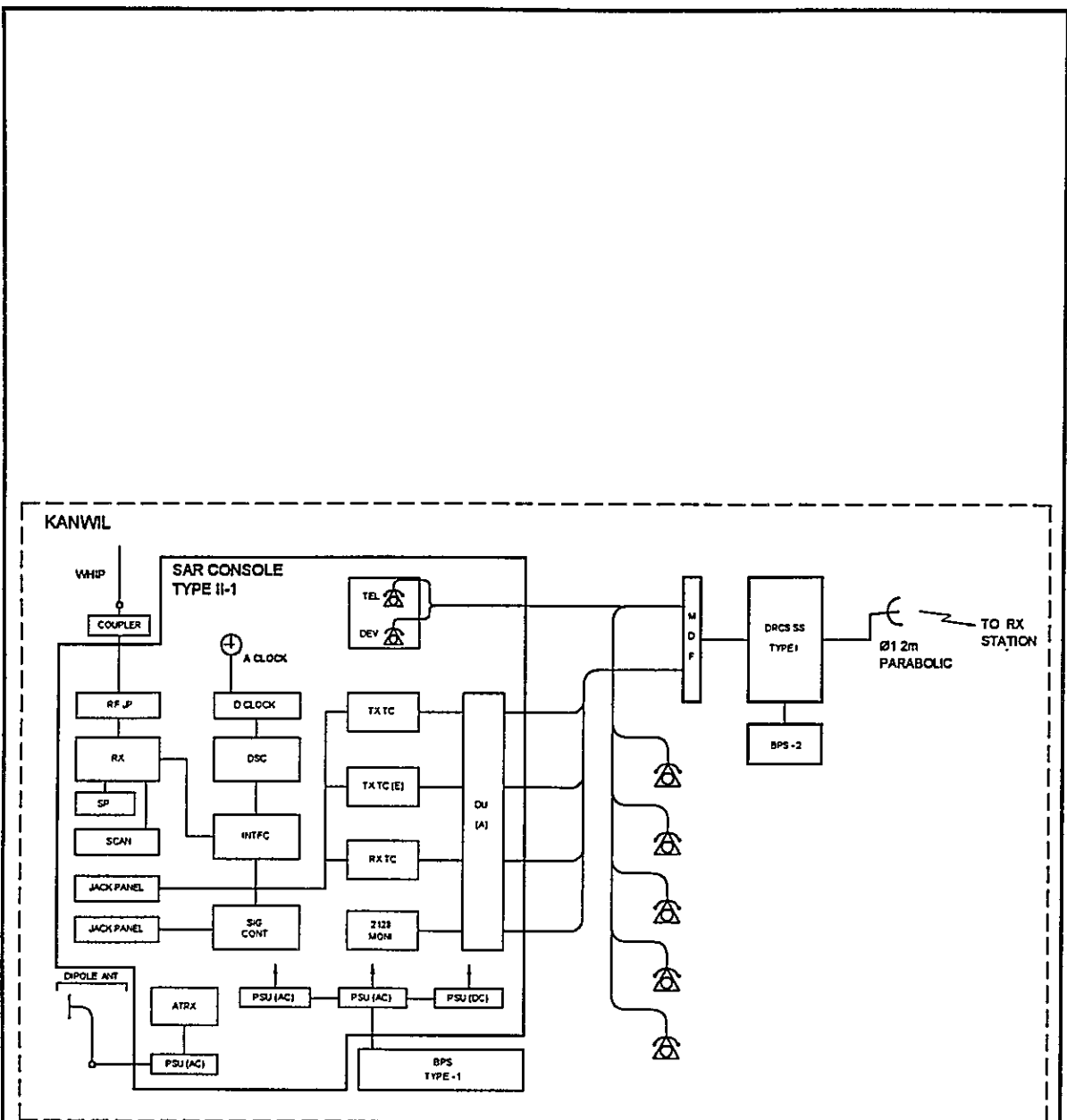
Surabaya

INVENTORY

Site Name: Kanwil Surabaya

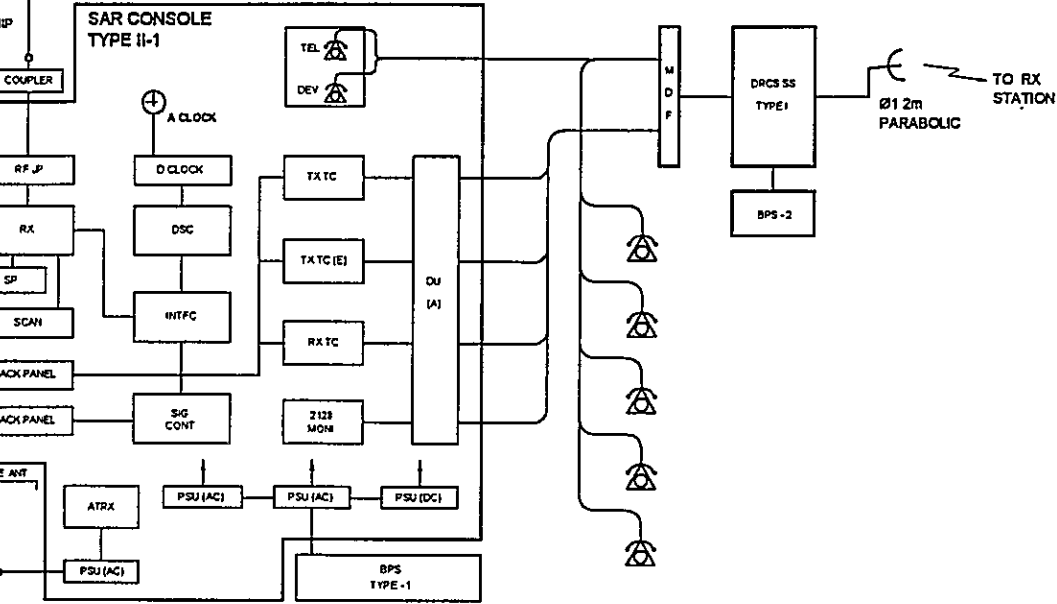
KWL-SBY-XI- (2 / 2)

| No | Registered No. | Description | Type | Serial No | Manufacturer | Date | Reference | Maintenance Record | Condition |
|-------|----------------|--|------|-----------|---|--|---|--------------------|-----------|
| 1-2 | | Remote Control Equipment | | | | | | | |
| 1-2-1 | | DRCS-II LOX MES TTY CE TDMA Telephony (x8) | | | JRC JRC JRC JRC JRC JRC JRC | 1989 1989 1989 1989 1989 1989 1989 | SAR Project SAR Project SAR Project SAR Project SAR Project SAR Project SAR Project | | |



KANWIL

SAR CONSOLE
TYPE II-1

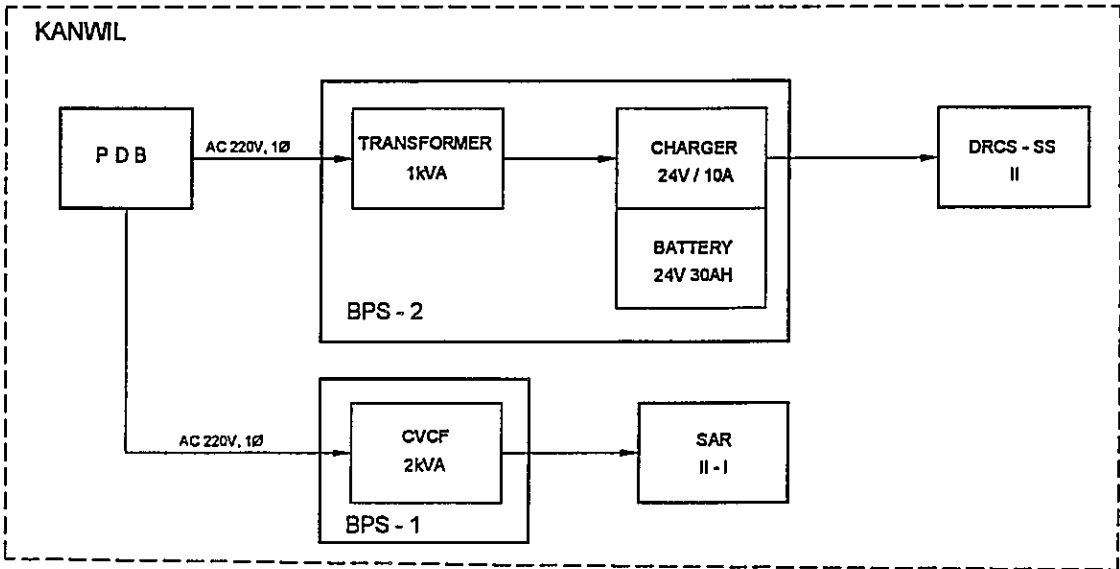


LEGEND

- BPS BATTERY POWER SUPPLY
- DSC DIGITAL SELECTIVE CALLING
- MDF MAIN DISTRIBUTION FRAME
- TX TRANSMITTER (ING)
- TEL TELEPHONE
- RX RECEIVING (ING)
- ☎ TELEPHONE SET

| | | |
|-------------------------|--|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 03, 2001 | SYSTEM BLOCK DIAGRAM | 1/1 |
| SCALE | SITE NAME | |
| No Scale | SURABAYA | |
| DIMENSION | DRAWING NO. | |
| Milimeter | K, W, I, L, - S, B, Y, - 0, 9, 5, - 5, | |
| - PT. Aneka Asia Buana | | |

DRAWN BY AAB
 APPROVED BY JICA



LEGEND

- BPS BATTERY POWER SUPPLY
- kVA KILO VOLT AMPERE
- PDB POWER DISTRIBUTION BOARD
- V VOLT

DRAWN BY AAB. APPROVED BY JICA.

| | | |
|-------------------------------|---------------------------------------|----------|
| DATE | DRAWING TITLE | SHEET NO |
| July 02, 2001 | POWER BLOCK DIAGRAM | 1 / 1 |
| SCALE | SITE NAME | |
| No Scale | SURABAYA | |
| DIMENSION | DRAWING NO. | |
| Milimeter | K, W, I, L, - S, B, Y, - 0, 9, 5, - 6 | |
| - PT. Aneka Asia Buana | | |