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

4th-A Class Coast Station

Masalembo

(Coast Station No. 103)

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	MASALEMBO		
CLASS	4th-A	NO.	103

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Datuk Kaidani			114° 27′ 00″ E	05° 34′ 00″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Surabaya [Taking time: 2.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	25,000
By Ship to Masalembo [Taking time: 17.00 hr.]	☑ Paved	☐ Medium	☑ Motel	
	☐ Unpaved road	☑ Light		
		☐ 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
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☑ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☑ Sandy			☑ ☐ Lightning system
Altitude	2.00 M		**Telephone Lines**	☐ ☑ Feeder Cable Way
Land area	1,000 m²		☐ Lines	☐ ☑ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Painting
Flooring	Tile
Room Area (m²)	
Operation room	12.00
E / G room	20.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	V	220 V
Phase		1
Wire		2
kVA		3

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day		Hours
Power interruption /month		Times
Total interpt. hours /month		Hours
Max. interpt. hours at once		Hours

Existing Power Conditions	
Good Bad	
☑ ☐	Power Supply System
☑ ☐	Operations of E/G
☐ ☐	Operations of AVR

Capacity of fuel for engine	
Day tank	6 Liter
Main tank	0.6 k Liter

E/G Stand-by System	
☑	Single System
☐	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Slightly damaged repaired in Masalembo
Examples of major failure	Genset can not started and Generator was burned
Sufficiency of spares	Spare Genset borrowed by Surabaya Station

Records of damages	Environmental Conditions		
	Good	Bad	
☐ Heavy rainfall			
☐ Storm	☐	☑	External noises
☐ Lightning	☑	☐	Air pollution
☐ Other calamity			

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4 Number of Operator	☑ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6 Capability of Operator	☑ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	1 ()	()
Technician (skilled)	()	()
Administrator		
Total	2	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	MASALEMBO		
CLASS	4th-A	NO.	103

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	So many disturbance coming from illegal radio station
Remarks	

INVENTORY

Site Name: Masalembo

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		MF/HF Transceiver	FT-300C	083010720H7	Yaesu	1984			Not So Good
2		MF/HF Transceiver	FS-1000	S/N590-2560	Furuno	1986			Good
1-2		**Receiver**							
1		MF/HF Receiver	FRG-7700	4F300118	Yaesu	1984			Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		20mH Antenna Tower (2 Unit)				1995			Good
2-2		**Antenna System**							
1		Dipole Antenna				1995			Good
3		Vertical Antenna				1995			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		Accu 12V/200AH			Hitachi	1999			Damaged
2		Accu 12V/200AH			Yuasa	2001			Good
3		Battery Charger			Asahi	1996			Good
3-2		**Engine Generator**							
1		Engine	TF-65R	6550544R	Yanmar	1995			Good
2		Generator	FA-3	0467563	Denyo	1995			Good
4		**Measuring Equipment**							
1		Multi Tester	YX-360TR		SANWA	1994			Good
5		**Others**							
1		Air Conditioner 1PK			National				No Good

STATUS OF TROUBLES

SITE NAME : MASALEMBO

MSB-103-(1/1)

Item / Equipment	- / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

For Maintenance (especially for Gen-Set) there is trouble.
The above trouble caused by un-complete equipment tools (Monkey Wrench, Box wrench, open end wrench)

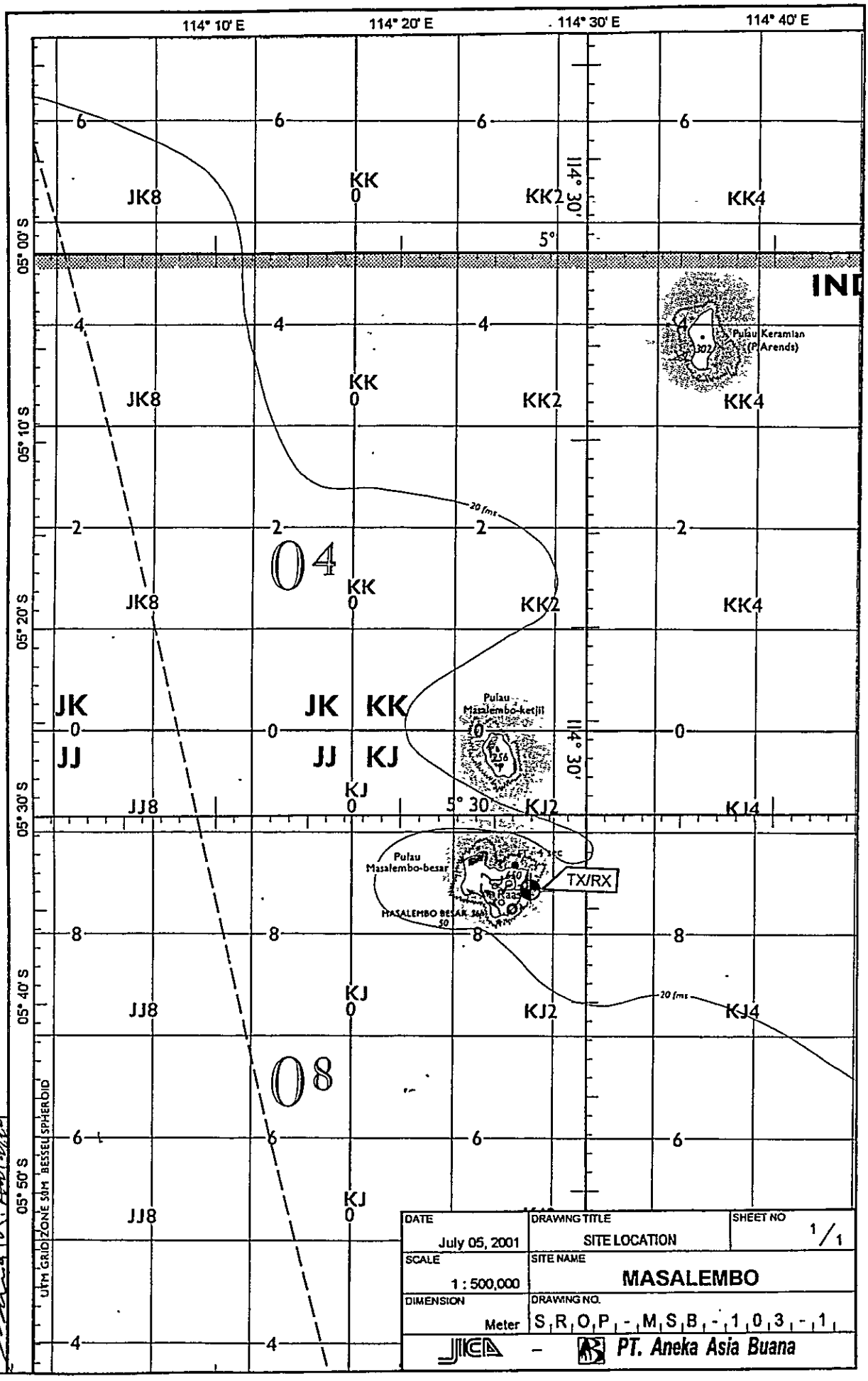
OPERATION SCHEDULE (FREQUENCIES)

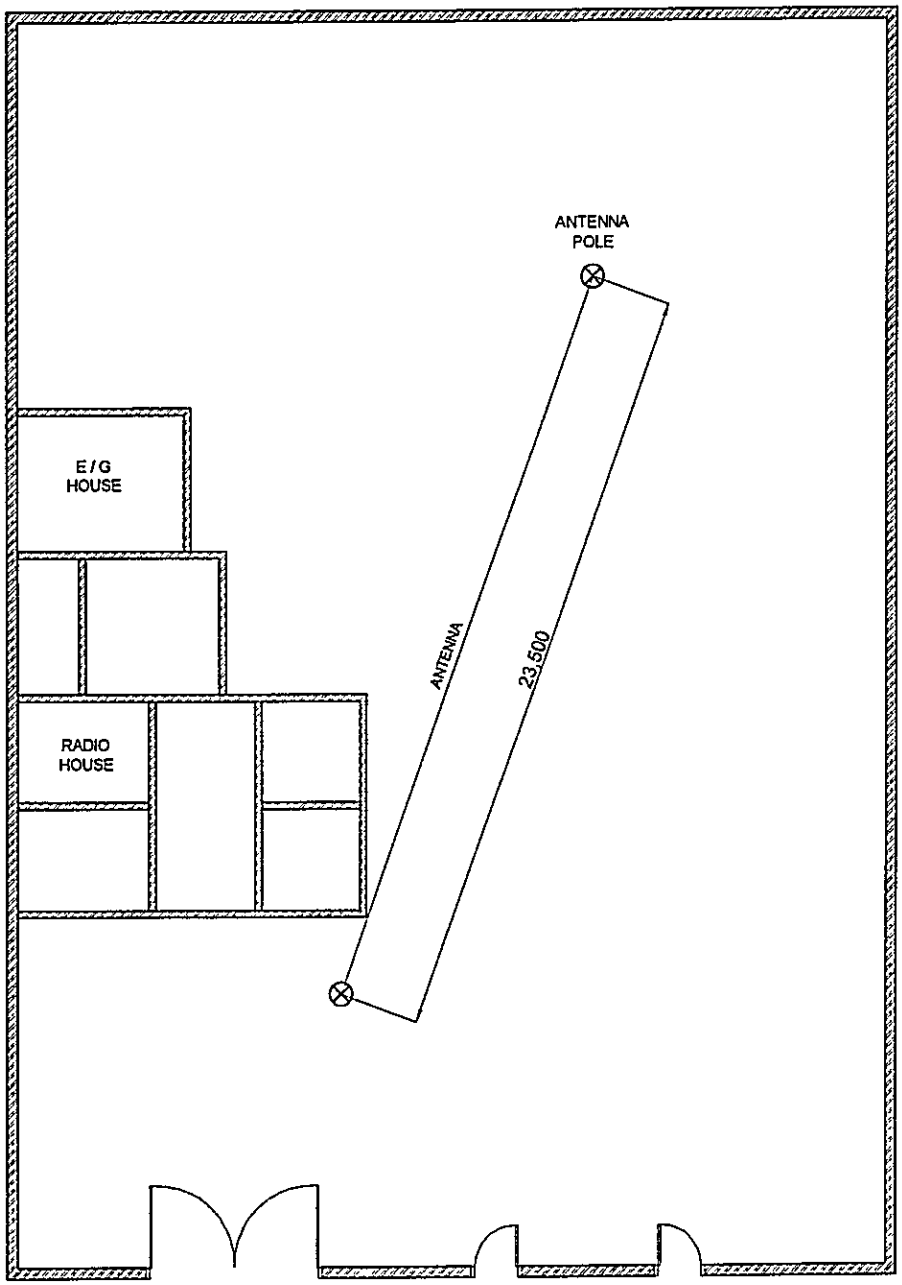
Site Name: Masalembo

MSB-103-(1/1)

Call Sign : Mobile Service : PKD 57
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	2 690,0	J3E	100		
3	6 215,0	J3E	100		
	Fix Service				
4	5 316,0	J3E	100		
5	5.165,0	J3E	100		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

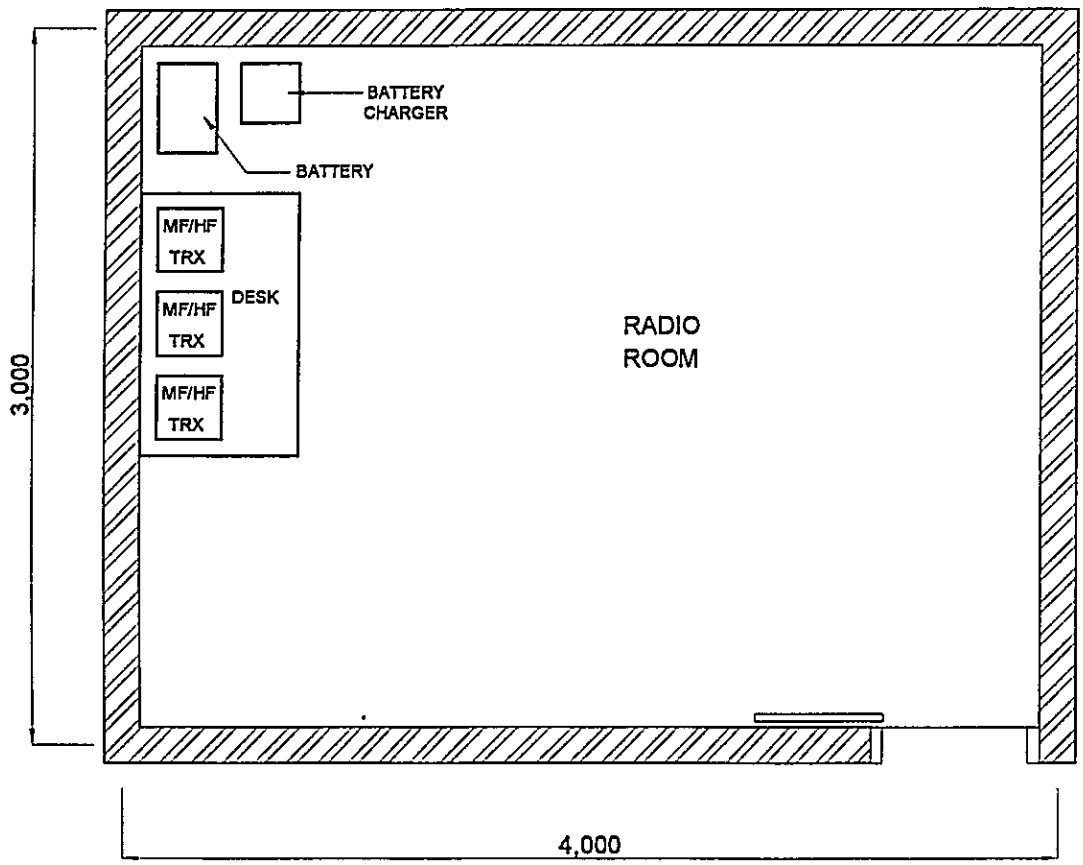

114° 10' E
114° 20' E
114° 30' E
114° 40' E
05° 00' S
05° 10' S
05° 20' S
05° 30' S
05° 40' S
05° 50' S
114° 30'
5° 30'
JK8
KK0
KK2
KK4
JJ8
KJ0
KJ2
KJ4
JK
JJ
KK
KJ
20 fms
04
08
Pulau Keramian (P Arends)
Pulau Masalembo-ketjil
Pulau Masalembo-besar
TX/RX
MASALEMBO BESAR
UTM GRID ZONE 50M BESSEL SPHEROID
DRAWN BY AAB
APPROVED BY JICA
DATE
July 05, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/1
SCALE
1 : 500,000
SITE NAME
MASALEMBO
DIMENSION
Meter
DRAWING NO.
SROP-MSB-103-1
JICA
PT. Aneka Asia Buana



DRAWN BY A&B

APPROVED BY JICA

DATE: July 01, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: MASALEMBO	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,S,B,-,1,0,3,-,2,	
JICA – PT. Aneka Asia Buana		



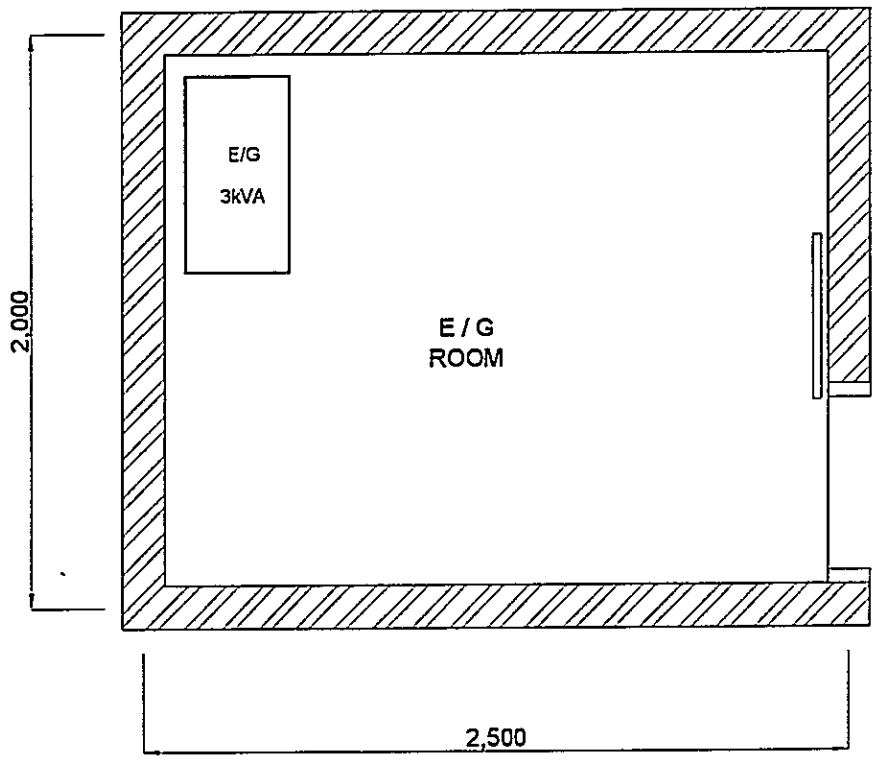
LEGEND

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

DATE: July 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 30	SITE NAME: MASALEMBO	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,M,S,B,-,1,0,3,-,3,	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



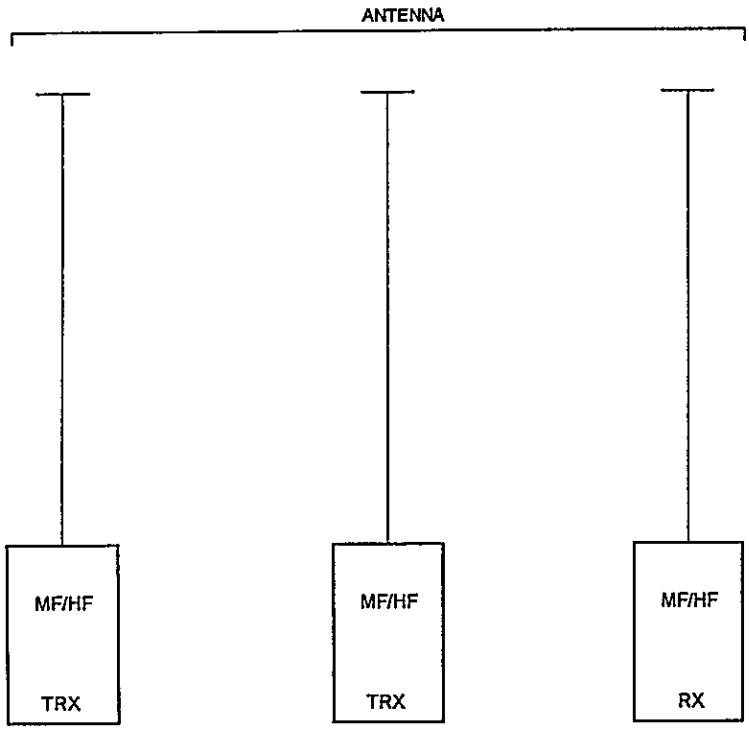
LEGEND

E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE

DATE: July 01, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: MASALEMBO	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,S,B,-,1,0,3,-,4	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



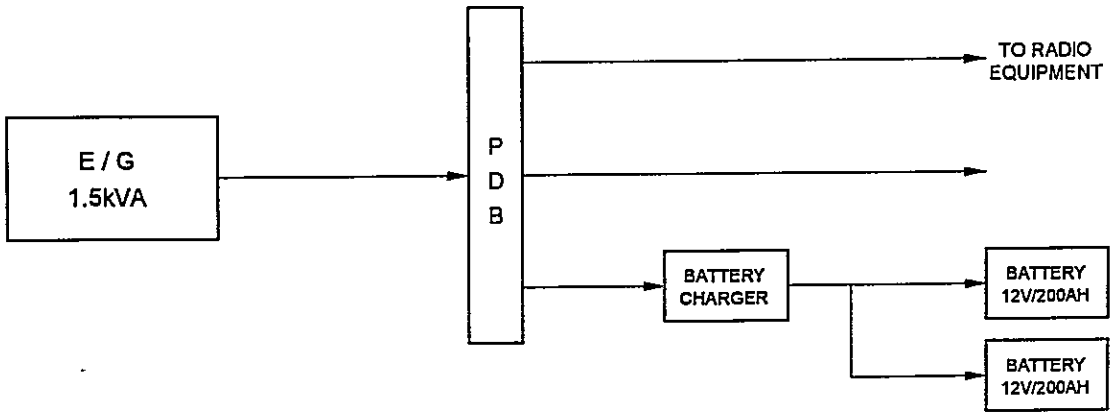
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 01, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MASALEMBO	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,M,S,B,-,1,0,3,-,5,	
JICA –	PT. Aneka Asia Buana	



LEGEND

E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE
PDB : POWER DISTRIBUTION BOARD
V : VOLT

APPROVED BY JICA :

DRAWN BY AAB

DATE: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MASSALEMBO	
DIMENSION: Milimeter	DRAWING NO: SROP-MSB-103-6	

JICA – PT. Aneka Asia Buana

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

4th-B Class Coast Station

Branta

(Coast Station No. 104)

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	BRANTA		
CLASS	4th-B	NO.	104

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				° ′ ″	° ′ ″

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ 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	
				Yes	No
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☐	☑ Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐	☑ Towers (Masts)
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐	☑ Grounding system
☐ Basin	☐ Clay		☐ Ground Subsidence	☐	☑ Lightning system
☐ Valley	☐ Sandy			☐	☑ Feeder Cable Way
Altitude	M		Telephone Lines	☐	☑ City water
Land area	m²		☐ Lines		

3.2 Building Conditions

Constructions	
Num. of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	
Remark	No Data

3.3 Power Source

	PLN Source	E/G
Voltage	V	V
Phase		
Wire		
kVA		

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	Hours	
Power interruption /month	Times	
Total interpt. hours /month	Hours	
Max. interpt. hours at once	Hours	

Existing Power Conditions		
Good	Bad	
☐	☑	Power Supply System
☐	☑	Operations of E/G
☐	☑	Operations of AVR

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System	
☐	Single System
☐	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall		☐	☑	External noises
☐ Storm		☐	☑	Air pollution
☐ Lightning				
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt./tools	☐ Enough	☐ Reasonable	☐ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6 Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	()	()
Technician (skilled)	()	()
Administrator		
T o t a l		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION	SITE	BRANTA		
	CLASS	4th-B	NO.	104

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: Branta

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available because Coast Station doesn't exists or Name only

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Branta

BRT-104-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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19					
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21					
22					
23					
24					
25					
26					
27					

Data not Available because Coast Station doesn't exists or Name only

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

4th-B Class Coast Station
Tuban
(Coast Station No. 105)

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	TUBAN		
CLASS	4th-B	NO.	105

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				112° 03′ 45″ E	06° 53′ 33″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ 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
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☑ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☑ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☑ Grounding system
☐ Valley	☐ Sandy			☐ ☑ Lightning system
Altitude	M		Telephone Lines	☐ ☑ Feeder Cable Way
Land area	m²		☐ Lines	☐ ☑ City water

3.2 Building Conditions

Constructions	
Num of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	

3.3 Power Source

	PLN Source	E/G
Voltage	V	V
Phase		
Wire		
kVA		

Quality of PLN source			
Fluctuations	V ± %		
Availability of power per day		Hours	
Power interruption /month		Times	
Total interpt hours /month		Hours	
Max. interpt. hours at once		Hours	

Existing Power Conditions	
Good Bad	
☐ ☑ Power Supply System	
☐ ☑ Operations of E/G	
☐ ☑ Operations of AVR	

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System
☐ Single System
☐ Dual System

Remark No Data

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall		☐	☑	External noises
☐ Storm		☐	☑	Air pollution
☐ Lightning				
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt /tools	☐ Enough	☐ Reasonable	☐ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6 Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	()	()
Technician (skilled)	()	()
Administrator		
Total		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	TUBAN		
CLASS	4th-B	NO.	105

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: Tuban

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available because Coast Station doesn't exists or Name only

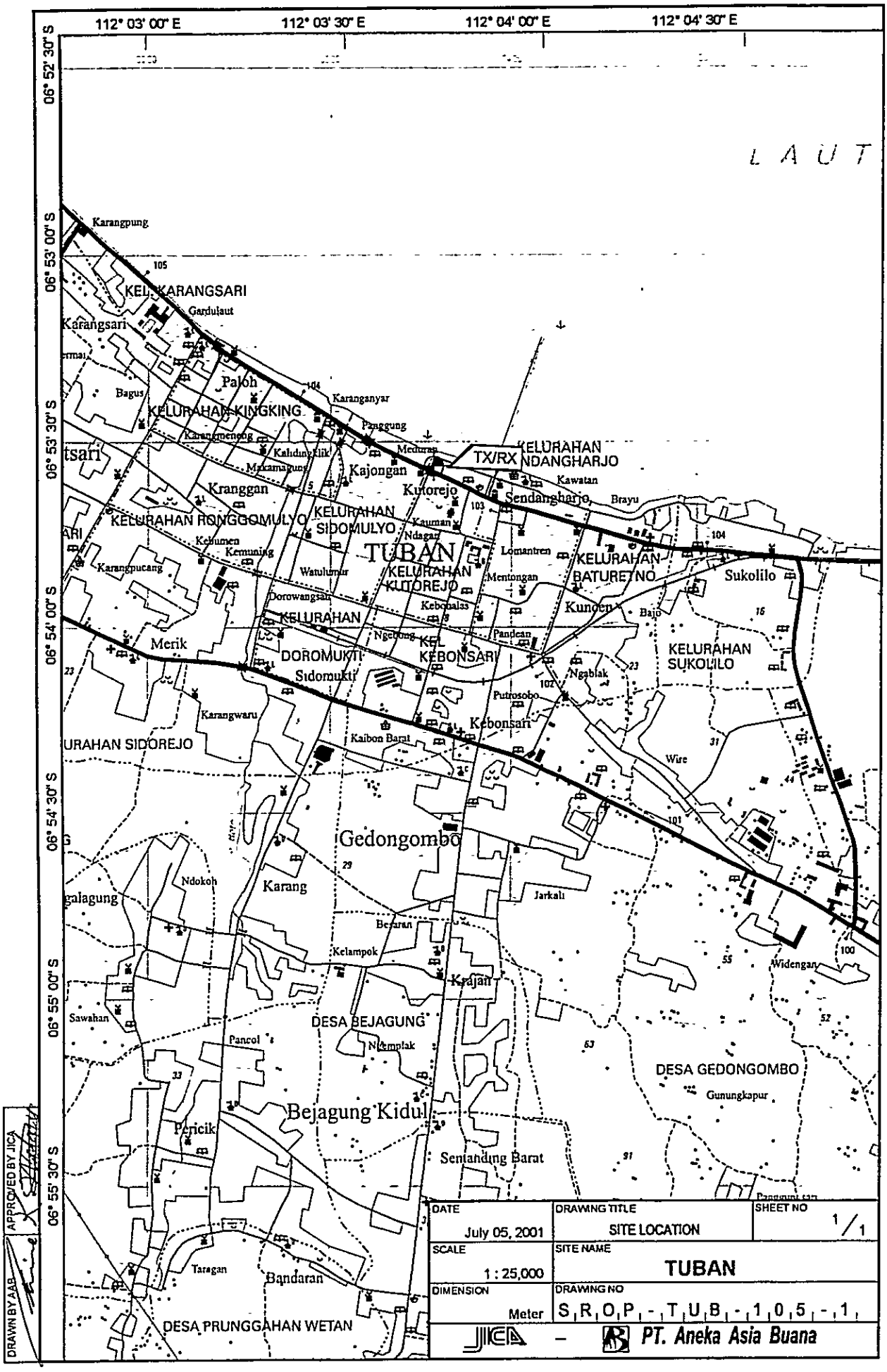
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Tuban

TUB-105-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
8					
9				**Data not Available because Coast**	
10					
11				**Station doesn't exists or Name only**	
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					



APPROVED BY JICA

DRAWN BY AAB

DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 25,000	SITE NAME: TUBAN	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,T,U,B,-,1,0,5,-,1	

JICA – PT. Aneka Asia Buana

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

4th-B Class Coast Station
Besuki
(Coast Station No. 106)

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	BESUKI		
CLASS	4th-B	NO.	106

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				113° 41′ 00″ E	07° 44′ 00″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
	☐ Highway	☐ Heavy	☐ Hotel	
	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ 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
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☑ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☑ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☑ Grounding system
☐ Valley	☐ Sandy			☐ ☑ Lightning system
Altitude	M		Telephone Lines	☐ ☑ Feeder Cable Way
Land area	m²		☐ Lines	☐ ☑ City water

3.2 Building Conditions

Constructions	
Num. of story	
Structure	
Type of roof	
Type of ceiling	
Type of wall	
Wall finish	
Flooring	
Room Area (m²)	
Operation room	
E / G room	

3.3 Power Source

	PLN Source	E/G
Voltage	V	V
Phase		
Wire		
kVA		

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	Hours	
Power interruption /month	Times	
Total interpt. hours /month	Hours	
Max interpt. hours at once	Hours	

Existing Power Conditions		
	Good	Bad
☐ ☑ Power Supply System		
☐ ☑ Operations of E/G		
☐ ☑ Operations of AVR		

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System

☐ Single System

☐ Dual System

Remark: No Data

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions	Good	Bad	
☐ Heavy rainfall					
☐ Storm			☐	☑	External noises
☐ Lightning			☐	☑	Air pollution
☐ Other calamity					

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt /tools	☐ Enough	☐ Reasonable	☐ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6 Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	()	()
Technician (skilled)	()	()
Administrator		
Total		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	BESUKI		
CLASS	4th-B	NO.	106

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: Besuki

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available because Coast Station doesn't exists or Name only

OPERATION SCHEDULE (FREQUENCIES)

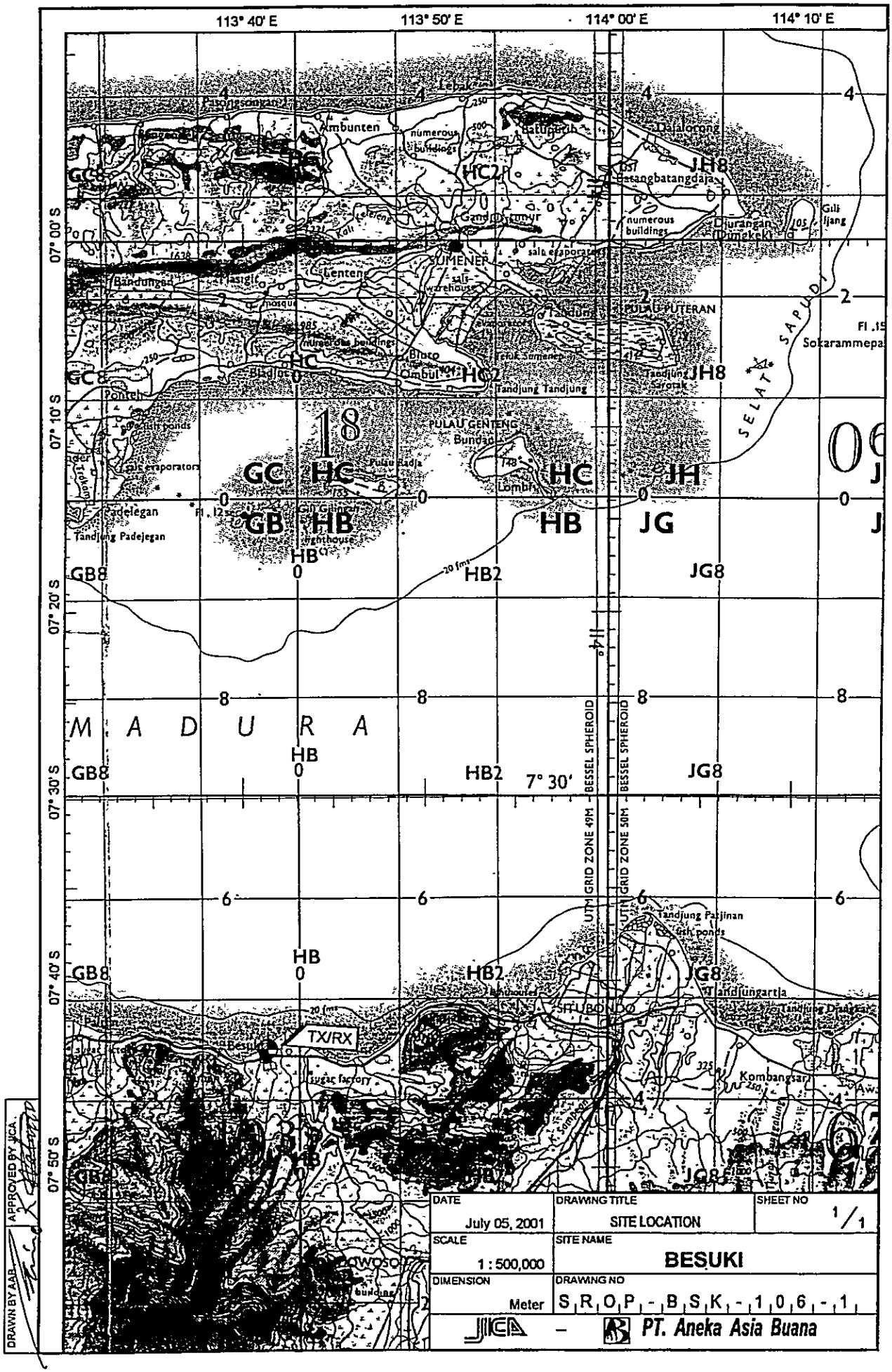
Site Name: Besuki

BSK-106-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Data not Available because Coast Station doesn't exists or Name only



DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: BESUKI	
DIMENSION: Meter	DRAWING NO: S R O P - B S K - 1 0 6 - 1	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAD | APPROVED BY JICA

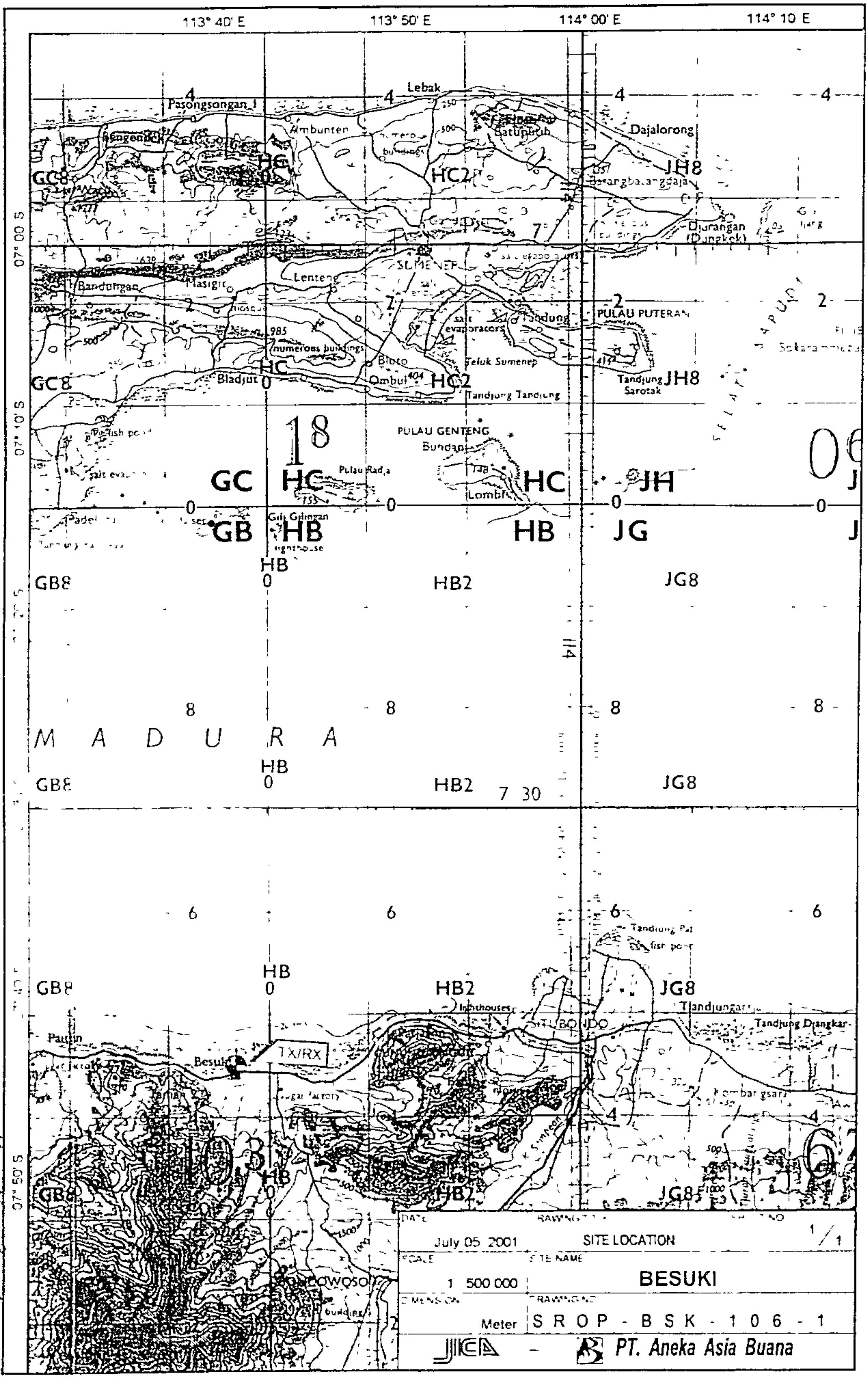
THE STUDY FOR
MARITIME TRAFFIC SAFETY SYSTEM DEVELOPMENT PLAN
IN THE REPUBLIC OF INDONESIA

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

2ND CLASS DISTRICT NAVIGATION AREA (12)
BENOA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001



113° 40' E
113° 50' E
114° 00' E
114° 10' E
07° 00' S
07° 10' S
07° 50' S
Lebak
Pasongsongan
Ambunten
Dajalorong
JH8
HC2
GC8
SUMENEP
Lenteng
Bandungan
Masigit
PULAU PUTERAN
numerous buildings
Bluto
Teluk Sumenep
Bladjut
Ombul
Tandjung Sarotak
Tandjung Tandjung
PULAU GENTENG
Bundan
Pulau Radja
Lombik
GC
HC
JH
GB
HB
JG
GB8
HB2
JG8
M A D U R A
7 30
Tandjung Pat
fish pond
lighthouses
SITUBONDO
Tandjung Djangkar
Patian
Besuki
TX/RX
sugar factory
Kombangsari
K. Sampean
Bondowoso
DATE
July 05 2001
SITE LOCATION
1/1
SCALE
1 500 000
SITE NAME
BESUKI
DIMENSION
Meter
DRAWING NO
S R O P - B S K - 1 0 6 - 1
JICA - 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 (12)
BENOA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Area (12)

Benoa

Table of Content

DISNAV	12	Benoa	2nd Class
SROP	107	Benoa	3rd Class
	108	Lembar	3rd Class
	109	Padang Bai	4th-A Class
	110	Celukan Bawang	4th-A Class
	111	Bima	4th-A Class
	112	Badas	4th-A Class
	113	Gilimanuk	4th-A Class
	114	Labuhan Lombok	4th-A Class
	115	Labuhan Haji	4th-B Class
	116	Kempo	4th-B Class
	117	Benete	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-12)
Benoa

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	BENOA		
CLASS	2nd	NO.	12

1. LOCATION

Address	Tel.	Fax	Longitude	Latitude
Jl. Raya Pelabuhan Benoa 8000	0361-720292	0361-720716	115° 12′ 32″ E	08° 44′ 40″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Denpasar [Taking time 1:30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	500,000
By Car to Benoa [Taking time 0 30 hr.]	☑ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ 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
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☐ Grounding system
☐ Valley	☑ Sandy			☐ ☐ Lightning system
Altitude	2.50 m		Telephone Lines	☐ ☐ Feeder Cable Way
Land area	m²		☑ 2 Lines	☐ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Plasterboard
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile
Room Area (m²)	
Operation room	
E / G room	
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase		
Wire		
kVA		

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	1 Times	
Total interpt. hours /month	4 Hours	
Max interpt. hours at once	4 Hours	

Existing Power Conditions		
Good	Bad	
☑	☐	Power Supply System
☐	☐	Operations of E/G
☐	☐	Operations of AVR

Capacity of fuel for engine	
Day tank	100 Liter
Main tank	1 k Liter

E/G Stand-by System	
☐	Single System
☐	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Simple, Repaired by local technician
Examples of major failure	damaged by lightning
Sufficiency of spares	Not available

Records of damages		Environmental Conditions	Good	Bad
☐ Heavy rainfall				
☐ Storm		☐ ☑ External noises		
☐ Lightning		☐ ☑ Air pollution		
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt /tools	☐ Enough	☐ Reasonable	☐ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough
6 Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

Chief	
Operator (skilled)	()
Technician (skilled)	()
Administrator	
T o t a l	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF DISNAV

SITE	BENOA		
CLASS	2nd	NO	12

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

3rd Class Coast Station

Benoa

(Coast Station No. 107)

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	BENOA		
CLASS	3rd	NO.	107

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Benoa	0370-720292	0370-720292	115° 12′ 32″ E	08° 44′ 40″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Denpasar [Taking time: 1.30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	500.000
By Car to Location [Taking time: 0.30 hr.]	☑ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ 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
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☑ Sandy			☑ ☐ Lightning system
Altitude	2.50 M		**Telephone Lines**	☑ ☐ Feeder Cable Way
Land area	2,255 m²		☑ 1 Lines	☑ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Plasterboard
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile

Room Area (m²)	
Operation room	28.80
E / G room	15.00

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	3	3
Wire	4	4
kVA	15	7.5

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	1 Times	
Total interpt hours /month	4 Hours	
Max. interpt. hours at once	4 Hours	

Existing Power Conditions	Good	Bad
Power Supply System	☑	☐
Operations of E/G	☑	☐
Operations of AVR	☑	☐

Capacity of fuel for engine	
Day tank	100 Liter
Main tank	1 k Liter

E/G Stand-by System	
☑	Single System
☐	Dual System

Remark Lightning system will be recondition.
Planning removed to TX Station.

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Simple by him self technician
Examples of major failure	Radio does not function, damage by lightening
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☑ Lightning	MF/HF Transceiver	☑	☐	Air pollution
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☑ Not enough
3 Measuring eqpt /tools	☐ Enough	☐ Reasonable	☑ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☑ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6 Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☑ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	26 (25)	()
Technician (skilled)	1 (1)	()
Administrator		
Total	28	

Training Record

Course	Class	Location	Period	Trainee
Prc	I	Jakarta		1
Prc	II	Surabaya		7
Oru	Oru	Sby/Jkt		18
TTP	III	JKT		1

SUMMARY OF COAST STATION

SITE	BENOA		
CLASS	3rd	NO.	107

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			198	1996			220
1997					1992			106	1997			198
1998					1993			210	1998			232
1999					1994			309	1999			310
2000					1995			225	2000			213

7. COMMENTS

Suggestion	Budget for maintenance of Maritime Telecommunication facility is not sufficient, therefore Telecommunication can not be done optimally Housing and transportation is unavailable.
Remarks	

INVENTORY

Site Name: Benoa

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver	130M	5906	PYE	1976			Damaged
2		SSB Transceiver	130M	5909	PYE	1976			Damaged
3		SSB Transceiver	IC-M700	4460	ICOM	1991			Good
4		SSB Transceiver	FT-300C	820429	RFC	1982			Damaged
5		SSB Transceiver	110/10	4095	RFC	1982			Damaged
6		SSB Radio Phone	NS-11A	5320034	Furuno	1976			Damaged
1-2		**MF/HF Operation Console**							
1-2-1		MF Console	RH-002	002	Sailor	1996	F-TA-193· PH3		Good
1-2-2		MF Transmitter							
1		400W MF Transmitter	T1127L	504091	Sailor	1996	F-TA-193· PH3		Not used
2		400W MF Transmitter	T1127L	504049	Sailor	1996	F-TA-193: PH3		Not used
3		Exciter	S 1301L	495755	Sailor	1996	F-TA-193: PH3		Good
4		Exciter	S 1301L	504063	Sailor	1996	F-TA-193· PH3		Good
5		Tuner	H1201	504124	Sailor	1996	F-TA-193: PH3		Good
6		Tuner	H1201	504081	Sailor	1996	F-TA-193: PH3		Good
7		Power Supply	N1401	504074	Sailor	1996	F-TA-193. PH3		Good
8		Power Supply	N1401	504106	Sailor	1996	F-TA-193. PH3		Good
1-3		**MF/HF Console**							
1-3-1		MF/HF Console	RH-16-3	002	Sailor	1996	F-TA-193: PH3		Good
1-3-2		MF / HF Equipment							
1		600W MF/HF Transmitter	T2131	507803	Sailor	1996	F-TA-193: PH3		Damaged
2		600W MF/HF Transmitter	T2131	507977	Sailor	1996	F-TA-193· PH3		Damaged
3		AC Power Supply	N2171	509924	Sailor	1996	F-TA-193 PH3		Good
4		AC Power Supply	N2171	509684	Sailor	1996	F-TA-193· PH3		Good
5		Antenna Coupler	AT 2112	509627	Sailor	1996	F-TA-193: PH3		No Good
6		Antenna Coupler	AT 2112	509631	Sailor	1996	F-TA-193 PH3		Good
7		CW Unit	H2185	512142	Sailor	1996	F-TA-193· PH3		Good
8		CW Unit	H2185	512143	Sailor	1996	F-TA-193· PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3-3		All Wave Receiver							
1		Control Unit	RE2100	511695	Sailor	1996	F-TA-193: PH3		Good
2		Control Unit	RE2100	511692	Sailor	1996	F-TA-193· PH3		Good
3		Duplex Receiver	R2120T	494631	Sailor	1996	F-TA-193. PH3		Good
4		Duplex Receiver	R2120T	494635	Sailor	1996	F-TA-193. PH3		Good
5		Loudspeaker (2)	H2054		Sailor	1996	F-TA-193: PH3		Good
1-3-4		Spot Receiver							
1		MF/HF DSC W/K RX	RM2150	511366	Sailor	1996	F-TA-193· PH3		Good
2		Power Supply	N2165	510641	Sailor	1996	F-TA-193: PH3		Good
1-3-5		Terminal Unit (DSC VHF/HF)							
1		DSC System	TT-6200A	63609	Sailor	1996	F-TA-193: PH3		Good
2		LAN	TT - 101064		Sailor	1996	F-TA-193: PH3		Good
3		LAN I/O	TT - 101065		Sailor	1996	F-TA-193: PH3		Good
4		CPU	TT - 101051		Sailor	1996	F-TA-193: PH3		Good
5		CPU I/O	TT - 10123		Sailor	1996	F-TA-193: PH3		Good
6		PARALEL	TT - 101190		Sailor	1996	F-TA-193: PH3		Good
7		PARALEL I/O	TT - 101217		Sailor	1996	F-TA-193. PH3		Good
8		VHF MODEM	TT - 102239		Sailor	1996	F-TA-193: PH3		Good
9		HF MODEM	TT - 1022337		Sailor	1996	F-TA-193: PH3		Good
10		MODEM I/O (2)	TT - 102238		Sailor	1996	F-TA-193. PH3		Good
11		ALARM I/O	TT - 101242		Sailor	1996	F-TA-193: PH3		Good
12		POWER SUPPLY	TT - 101122		Sailor	1996	F-TA-193: PH3		Good
13		POWER INPUT	TT - 101241		Sailor	1996	F-TA-193: PH3		Good
1-3-6		DSC Operation Position Terminal / PC	TT-3634A						
		Compaq Proline 466			Sailor	1996	F-TA-193: PH3		Good
		Compaq Monitor 140			Sailor	1996	F-TA-193: PH3		Good
		Printer (H-1252A)	TT-1608C	59AP3175675K	Sailor	1996	F-TA-193· PH3		Good
		Monitor Display	TT-3602B	114483	Sailor	1996	F-TA-193: PH3		Good
		DSC Alarm	TT-1542B		Sailor	1996	F-TA-193: PH3		Good
1-3-7		Signal Control Panel							
		Audio/Digital Matrix	MTX-1616	129	Sailor	1996	F-TA-193: PH3		Good
		Keyer	KK-1		Sailor	1996	F-TA-193· PH3		Good
		Loudspeaker	H2054		Sailor	1996	F-TA-193: PH3		Good

INVENTORY

Site Name: Benoa

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3-8		Telephone Repeater (Phone Patch)							
		Radio/Tel I/F Unit	RTU - 282	155	Sailor	1996	F-TA-193: PH3		Damaged
1-3-9		ARQ Equipment							
		Radiotelex Modem	TT-1585E	42751	Sailor	1996	F-TA-193: PH3		Good
		ARQ Key Board	TT-1601 A	K91.11	Sailor	1996	F-TA-193: PH3		Good
		Printer (H1252A)	TT1680C	59AP3175673K	Sailor	1996	F-TA-193: PH3		Good
		Telex Alarm	TT-1542B		Sailor	1996	F-TA-193: PH3		Good
1-3-10		HF Console							
1		HF Console	NCU 282S	BP 3142	JRC	1987			Damaged
1-3-11		Receiver							
1		Receiver	NDR 142A	R-30369	JRC	1964			Not used
2		Receiver	FRE-7700	01011115SE	Yaesu	1982			Not used
3		Receiver	FRE-7700	MLM 100271	Yaesu	1983			Damaged
1-4		VHF System							
1-4-1		Operation Console	RH-16-1	002	Sailor	1996	F-TA-193: PH3		Good
1-4-2		Multichannel VHF Tranceiver							
1		50W VHF Tranceiver	RT 2048	510954	Sailor	1996	F-TA-193: PH3		Good
2		50W VHF Tranceiver	RT 2048	510933	Sailor	1996	F-TA-193: PH3		Good
3		50W VHF Tranceiver	RT 2048	510934	Sailor	1996	F-TA-193: PH3		Good
4		50W VHF Tranceiver	RT 2048	510945	Sailor	1996	F-TA-193: PH3		Good
5		RF Linear Power Amplifier	A2080BE-H	255	Sailor	1996	F-TA-193: PH3		Good
6		RF Linear Power Amplifier	A2080BE-H	257	Sailor	1996	F-TA-193: PH3		Good
7		RF Linear Power Amplifier	A2080BE-H	260	Sailor	1996	F-TA-193: PH3		Good
8		RF Linear Power Amplifier	A2080BE-H	289	Sailor	1996	F-TA-193: PH3		Good
9		Duplex Filter		237191	Sailor	1996	F-TA-193. PH3		Good
10		Duplex Filter		237202	Sailor	1996	F-TA-193· PH3		Good
11		CH-70 VHF T/R			Sailor	1996	F-TA-193· PH3		Good
12		VHF T/R	RT2048	510941	Sailor	1996	F-TA-193: PH3		Good
13		High Low I/F Unit (2)			Sailor	1996	F-TA-193: PH3		Good
14		RF Power Amplifier	A2080BE-H	251	Sailor	1996	F-TA-193. PH3		Good
15		AC Power Supply	N163S	N16314	Sailor	1996	F-TA-193· PH3		Good
16		DC Power Supply	N420	N42014	Sailor	1996	F-TA-193. PH3		Good
17		AC Power Supply	PSF-1	TWQ/11317/22	Sailor	1996	F-TA-193. PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-4-3		Terminal Equipment (DSC VHF / HF)							
		Audio/Digital Matrix	MTX-1616	124	Sailor	1996	F-TA-193: PH3		Good
1-4-4		Telephone Repeater							
		Radio/Tel I/F Unit	RTU-280	133	Sailor	1996	F-TA-193: PH3		Damaged
1-4-5		VHF Transceiver							
1		VHF Transceiver Ch.:16, 20, 22	FTC-1550A	838600	Yaesu	1987			Damaged
2		VHF Transceiver	CTM FAD 4AB	955151-20906	Philips	1976			Damaged
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		Panzer Mast 20mHx5			Philips	1976			Good
2		30 mH Self Supporting Structure	AT30SS		Sailor	1996	F-TA-193· PH3		Good
3		30 mH Self Supporting Structure	AT30SS		Sailor	1996	F-TA-193· PH3		Good
4		Lightning Protector (2)			Sailor	1996	F-TA-193: PH3		Good
5		Grounding (2)			Sailor	1996	F-TA-193. PH3		Good
2-2		**Antenna System**							
1		Inverted L-Type Antenna				1976			Good
2		Inverted L-Type Antenna				1976			Good
3		Inverted L-Type Antenna				1976			Good
4		Doublet Antenna				1976			Good
5		Doublet Antenna				1976			Good
6		T-Type Antenna for Tx	CA5/1-20-15		Sailor	1996	F-TA-193: PH3		Good
7		I/L Antenna for T/R	HF7		Sailor	1996	F-TA-193: PH3		Good
2-3		**Antenna Multi-Coupler for I/L**							Good
1		Antenna Distributor	AAD10/1/A-J1-6G	001003	JRC	1996	F-TA-193· PH3		Good
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		PDB for Tx/Rx 7.5 kVA, Local			Local	1996	F-TA-193: PH3		Good
3-2		**Isolation Transformer**							
1		7.5 kVA, 3P, 4W	IST10P3	9503	Sailor	1996	F-TA-193 PH3		Good
3-3		**Step-Up Transformer**							
1		9.9 kVA, 3P, 4W	STU10P3	9515	Sailor	1996	F-TA-193: PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-4		**UPS**							
1		Power Supply	NBD-369						Good
2		Accumulator 12V/200AH			Varta				Good
3		Accumulator 4V/200AH	6 PC		GS				Good
4		Accu Charger	C7612	203B	Schaner	-			Good
5		Accu Charger	GNT-SW12/15	14696	Automation	1974			Good
		AVR : 7.5 kVA, 3P, 4W	AVR7P3	9504		1996	F-TA-193: PH3		Good
3-5		**Engine Generator**							
1		Engine	TS-50	N-202371	Yanmar	1973			Good
2		Engine	ES-78	247453159	Hatz	1976			Good
3		Generator 2kVA	FA-12	51234	Denyo	1973			Good
4		Generator 1kVA	T-2954	74475	Dynav	1976			Good
5		Engine	EG10RA	584136	Kubota	1996	F-TA-193: PH3		Good
6		Generator	V-1505E	CO51684/6	St,Ford	1996	F-TA-193: PH3		Good
7		E/G Panel	BCI-164-D	9508		1996	F-TA-193· PH3		Good
8		Control Panel (AMF) 10 kVA	PL95-7S	9505		1996	F-TA-193: PH3		Good
9		Starting, Fuel, Exhaust System				1996	F-TA-193: PH3		Good
10		100 L Fuel Day Tank				1996	F-TA-193: PH3		Good
11		Fuel Control Unit				1996	F-TA-193: PH3		Good
12		1000 L Fuel Storage Tank				1996	F-TA-193: PH3		Good
4		**Measuring Equipment**							
1		Oscilloscope	V-352	424396	Hitachi				Good
2		Avometer	YS 360 TR		Sinwa				Good
3		Frequency Counter	MT 57 A		Anritsu				Good
4		Analog Oscilloscope	PM3065	DM639015	Sailor	1996	F-TA-193: PH3		Good
5		Plobe/Lead (x2)			Sailor	1996	F-TA-193· PH3		Good
6		Power Cable (x1)			Sailor	1996	F-TA-193· PH3		Good
7		Black Cover (x1)			Sailor	1996	F-TA-193: PH3		Good
8		Operation Manual (x1)			Sailor	1996	F-TA-193: PH3		Good
9		Pluke 87 Multimeter		63790044	HP	1996	F-TA-193: PH3		Good
10		Pluke 87 Multimeter		63790045	HP	1996	F-TA-193· PH3		Good
11		Pluke 87 Multimeter		63790046	HP	1996	F-TA-193: PH3		Good
12		Test Lead Set (x1) (3)			HP	1996	F-TA-193 PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
13		Hoester House Yellow (x1) (3)			HP	1996	F-TA-193: PH3		Good
14		User Manual (x2) (6)			HP	1996	F-TA-193· PH3		Good
15		Insulation Tester	2406A	65WA1269	Sailor	1996	F-TA-193: PH3		Good
16		Line Plobe (x1)			Sailor	1996	F-TA-193· PH3		Good
17		Earth Plobe (x1)			Sailor	1996	F-TA-193: PH3		Good
18		Carrying Case (x1)			Sailor	1996	F-TA-193: PH3		Good
19		Instruction Manual (x1)			Sailor	1996	F-TA-193: PH3		Good
20		RF Coaxial Load Resistor	8201	17020	Sailor	1996	F-TA-193: PH3		Good
21		RF Coaxial Load Resistor	8201	17021	Sailor	1996	F-TA-193: PH3		Good
22		Connection Cable (2)			Sailor	1996	F-TA-193: PH3		Good
5		**Others**							
1		Air Conditioner 1 PK			Sanyo				Good
2		Air Conditioner 1 PK			Sanyo				Good
3		Services Engineers Kit	RS541-365		Proskit	1996	F-TA-193: PH3		Good
4		Loudspeaker	T-1542B		Sailor	1996	F-TA-193: PH3		Good
5		Alarm	N2165		Sailor	1996	F-TA-193: PH3		Good
6		Power Supply			Sailor	1996	F-TA-193: PH3		Good
7		RF Power Amplifier	A2080BE-H		Sailor	1996	F-TA-193: PH3		Good
8		MF/HF Tx	T2131		Sailor	1996	F-TA-193: PH3		Good
9		CW Unit	H2185		Sailor	1996	F-TA-193: PH3		Good
10		Power Supply	N2171		Sailor	1996	F-TA-193: PH3		Good
11		MF Tx	T1127L		Sailor	1996	F-TA-193: PH3		Good
12		Power Supply	N1401		Sailor	1996	F-TA-193: PH3		Good
13		Exciter	S1301L		Sailor	1996	F-TA-193. PH3		Good
14		Rx Control Unit	RE2100		Sailor	1996	F-TA-193: PH3		Good
15		Module Level Spare Kit			Sailor	1996	F-TA-193: PH3		Good
16		Duplex Rx	R2120T		Sailor	1996	F-TA-193: PH3		Good
17		Module Level Spare Kit			Sailor	1996	F-TA-193: PH3		Good
18		MF/HF W/K RX	RM2150		Sailor	1996	F-TA-193: PH3		Good
19		DSC W/K Rx			Sailor	1996	F-TA-193: PH3		Good
20		VHF Transceiver	RT2048		Sailor	1996	F-TA-193: PH3		Good
21		DSC System	TT-6200A		Sailor	1996	F-TA-193: PH3		Good

STATUS OF TROUBLES

SITE NAME : BENOA **BNA-107-(1/1)**

Item / Equipment	Transceiver / MF/HF		
Manufacturer	Sailor		
Manufacturer in year	1995		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

For the time being, damaged by lightening are as follows:
- Sailor SSB 600 PEP : Module 8 (TX Processor), Module 9 (Power Supply)
- Sailor VHF Trance : VHF Modem 102239, HF/MF Modem 102237
- MF Console Sailor : Tube 8122
'- Sailor RE. 2100 : Module 3 (Synthesizer), Module 5 (Processor Unit)

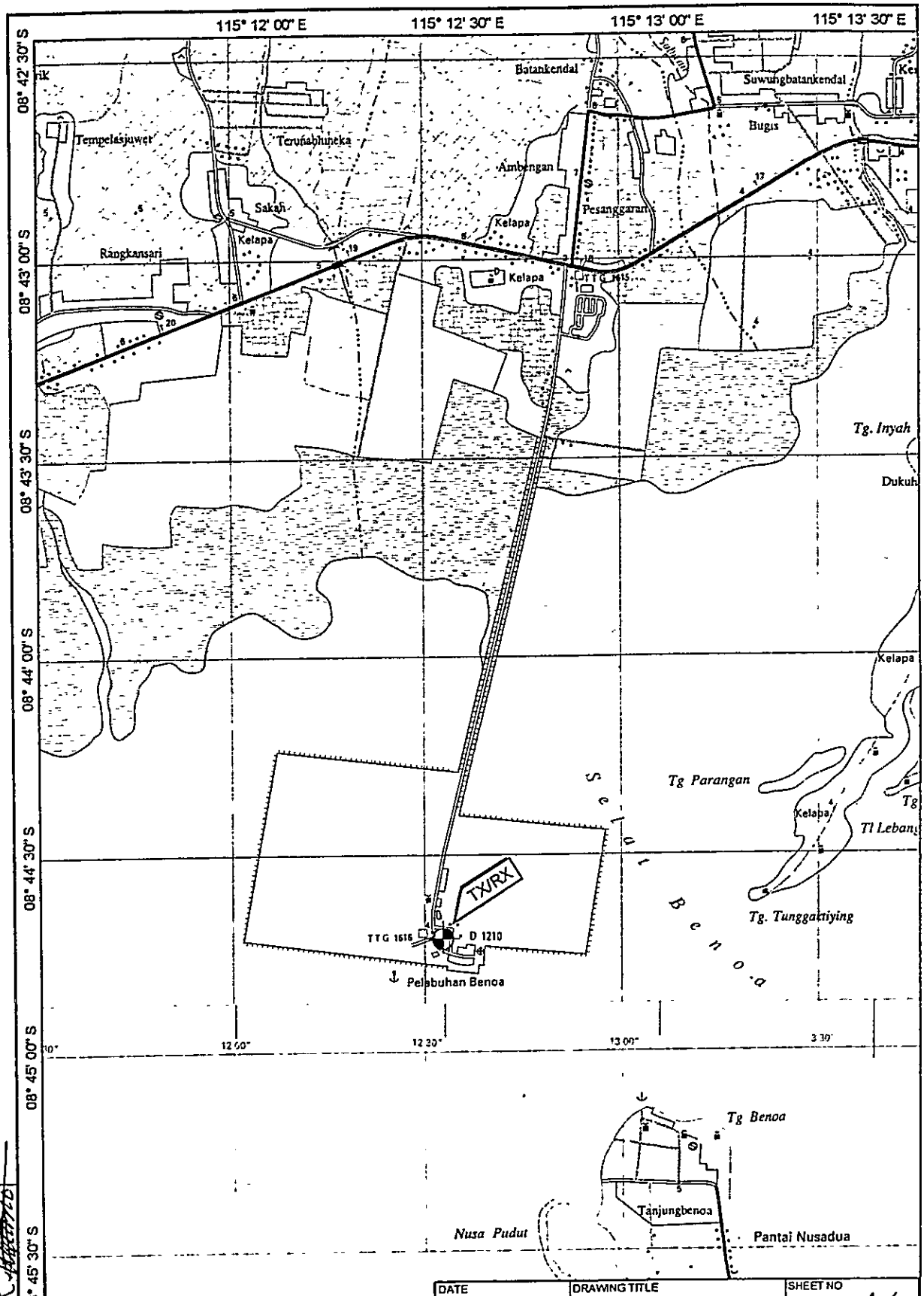
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Benoa

BNA-107-(1/1)

Call Sign : Mobile Service : PKD.5
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	500,0	A1A	1000		
2	2 182,0	J3E	1000		
3	6 215,0	J3E	500		
4	8 794,0	J3E	500		
5	8 270,0	J3E	500		
6	6 491,5	A1A	1000		
7	2 187,5	F1B	500		
7	2.174,5	F1B	500		
	VHF Service				
8	Channel-16	G3E	50		
9	Channel-20	G2B	50		
8	Channel-22	G3E	50		
9	Channel-70	G2B	50		
	Fix Service				
10	5 316,0	J3E	150		
11	6 926,0	J3E	150		
12	9 950,0	J3E	150		
13					
14					
15					
16					
17					
18					
19					
20					

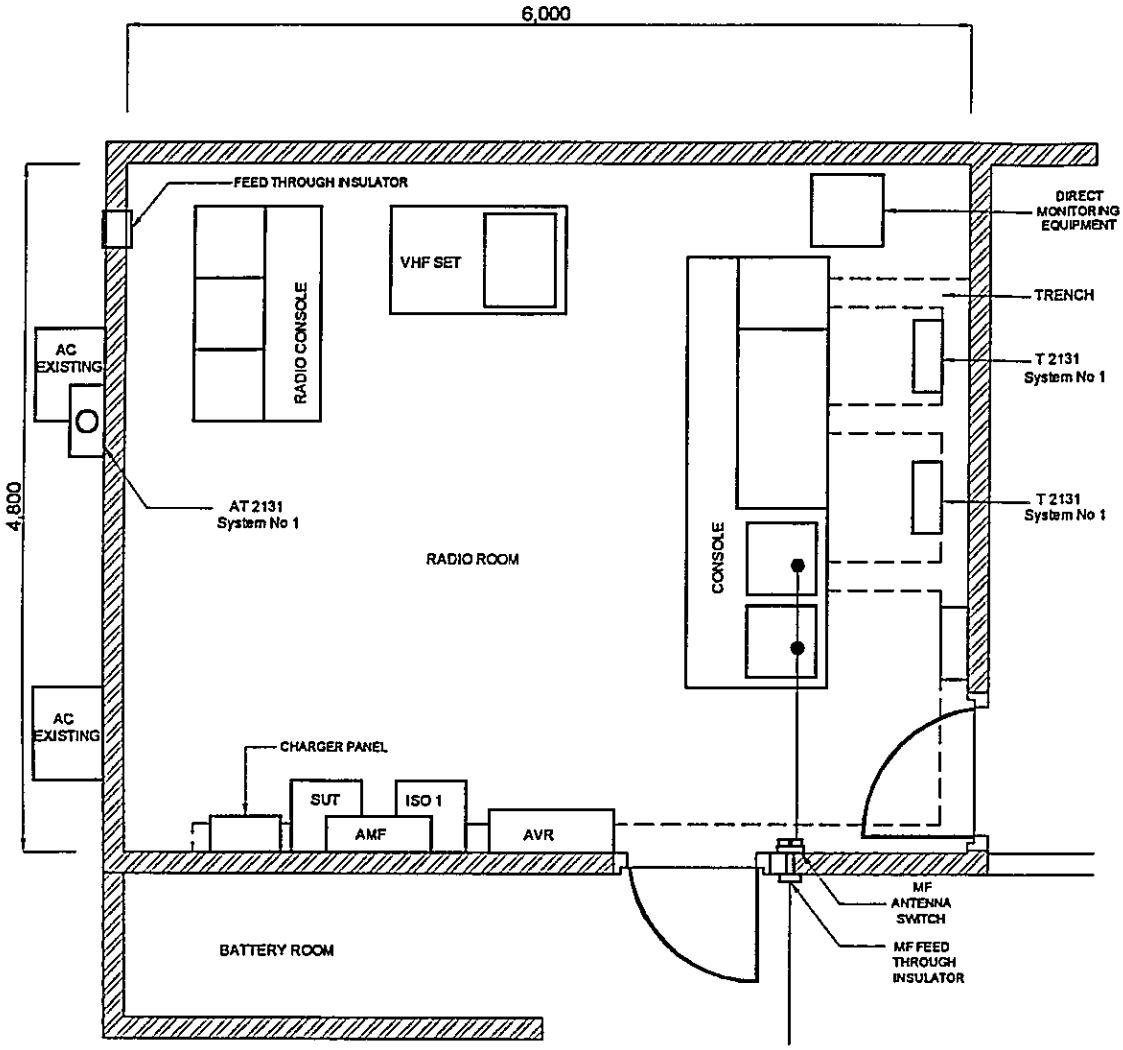


DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 25,000	SITE NAME: BENOA	
DIMENSION: Meter	DRAWING NO.: SROP-BNA-107-1	

JICA – PT. Aneka Asia Buana

DRAWN BY AAB

APPROVED BY JICA



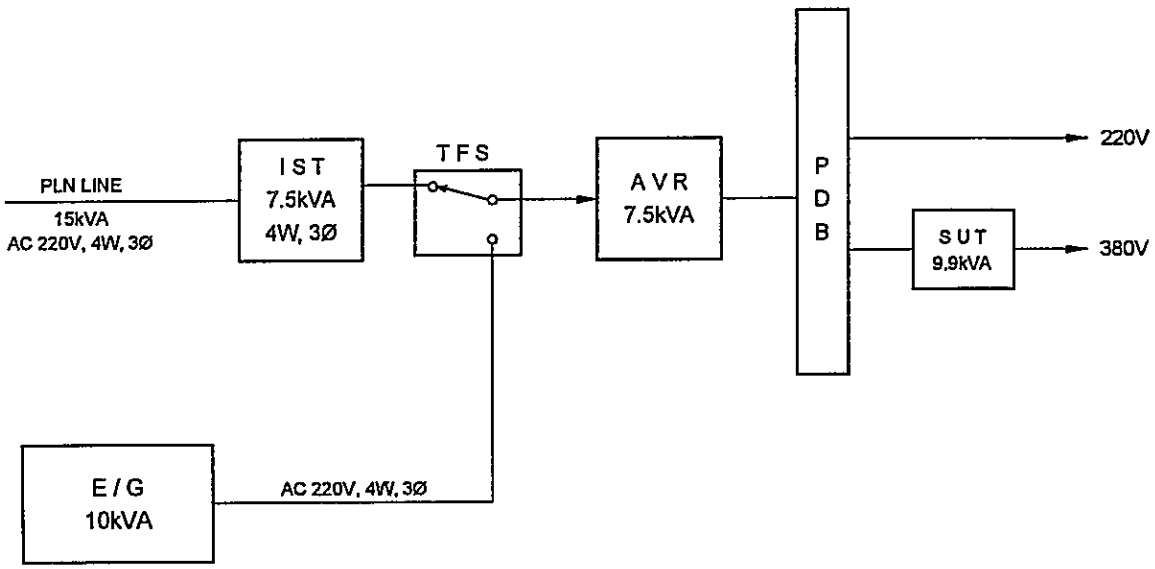
LEGEND

ASM	ANTENNA SWITCHING MATRIX	PDB	POWER DISTRIBUTION BOARD
AVR	AUTOMATIC VOLTAGE REGULATOR	SUT	STEP-UP TRANSFORMER
BPS	BATTERY POWER SUPPLY	TRX	TRANSCEIVER (ING)
E/G	ENGINE GENERATOR	UHF	ULTRA HIGH FREQUENCY
HF	HIGH FREQUENCY	UPS	UNINTERRUPTED POWER SUPPLY
IST	ISOLATION TRANSFORMER	VHF	VERY HIGH FREQUENCY
kVA	KILO VOLT AMPERE		

APPROVED BY JICA :

DRAWN BY AAB

DATE: July 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: BENOA	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,N,A,-,1,0,7,-,3,	
JICA . –	PT. Aneka Asia Buana	



APPROVED BY JICA :

DRAWN BY AAB

LEGEND

AC	. ALTERNATING CURRENT	TFS	: TRANSFER SWITCH
AVR	: AUTOMATIC VOLTAGE REGULATOR	TRX	. TRANSCEIVER (ING)
E/G	ENGINE GENERATOR	V	: VOLT
HF	HIGH FREQUENCY	W	. WIRE
IST	ISOLATION TRANSFORMER	Ø	: PHASE
kVA	KILO VOLT AMPERE		
SUT	: STEP UP TRANSFORMER		

DATE: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: BENOA	
DIMENSION: Milimeter	DRAWING NO: SROP-BNA-107-6	
JICA	PT. Aneka Asia Buana	

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

3rd Class Coast Station

Lembar

(Coast Station No. 108)

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	LEMBAR		
CLASS	3rd	NO.	108

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Raya Pelabuhan Lembar	681124	681124	116° 04′ 23″ E	08° 43′ 41″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Mataram	[Taking time	2.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	500,000
By Car	to Lembar	[Taking time	1.00 hr.]	☑ Paved	☐ Medium	☑ Motel	
				☐ Unpaved road	☑ Light		
					☐ 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	
				Yes	No
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☑	☐ Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐ Towers (Masts)
☑ Hill-top	☐ Swampy	☑ Rocky	☐ Rain Leakage	☑	☐ Grounding system
☐ Basin	☐ Clay		☐ Ground Subsidence	☑	☐ Lightning system
☐ Valley	☐ Sandy			☑	☐ Feeder Cable Way
Altitude	34.00 M		**Telephone Lines**	☑	☐ Feeder Cable Way
Land area	425.00 m²		☑ 1 Lines	☐	☑ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Plasterboard/Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile

Room Area (m²)	
Operation room	40 00
E / G room	16 00

Remark

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	10.6	10

Quality of PLN source		
Fluctuations	18 V ± 8 %	
Availability of power per day	24 Hours	
Power interruption /month	16 Times	
Total interpt. hours /month	50 Hours	
Max. interpt. hours at once	120 Hours	

Existing Power Conditions		
Good	Bad	
☑	☐	Power Supply System
☑	☐	Operations of E/G
☑	☐	Operations of AVR

Capacity of fuel for engine	
Day tank	100 Liter
Main tank	1 k Liter

E/G Stand-by System	
☑	Single System
☐	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Send to Workshop Benoa/technician coming
Examples of major failure	Transmitter equipment can not operate
Sufficiency of spares	Some of the equipment damaged/burned

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☑ Lightning	MF/HF Console	☑	☐	Air pollution
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☑ Not enough
3 Measuring eqpt /tools	☐ Enough	☑ Reasonable	☐ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☑ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6 Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☑ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	8 (6)	()
Technician (skilled)	()	()
Administrator		
Total	9	

Training Record

Course	Class	Location	Period	Trainee
Pre	I	Surabaya	1999	1
Pre	II	Surabaya	1997	1
Oru	Oru	SBY	1997	2
Oru	Oru	SBY	1999	1
Oru	Oru	SBY	2000	2

SUMMARY OF COAST STATION

SITE	LEMBAR		
CLASS	3rd	NO.	108

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		8			1991	42			1996	93		
1997		5			1992	36			1997	108		
1998		6			1993	47			1998	63		
1999		9			1994	135			1999	84		
2000		4			1995	136			2000	61		

7. COMMENTS

Suggestion	Cost/Price for Maritime Telecommunication is very expensive, and cost for maintenance is high and operator human resources must be high quality.
Remarks	

INVENTORY

Site Name: Lembar

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		Transmitter	NSD-1085	5642	JRC	1968			No Good
2		Transmitter	13A/9/12	103	TSC	1942			No Good
3		Marconi Transmitter	OCEAN SPAN	VII	-	-			No Good
4		HF Transceiver	SSB-130	5061	PYE	1974			Good
5		HF Transceiver	SSB-130	5921	PYE	1974			Repaired
6		HF Transceiver	FTC-1540A	OB-409216	-	ICOM			Remove
7		All HF Transceiver	JSB-161	BS-24887	JRC	1989			No Good
8		MF/HF Transceiver	JSB-50	-	INTI	1981			No Good
1-2		**MF/HF Console**							
1-2-1		MF/HF Console	RH-16-3	004	Sailor	1996	F-TA-193: PH3		Good
1-2-2		MF / HF Equipment							
1		600W MF/HF Transmitter	T2131	507853	Sailor	1996	F-TA-193: PH3		No Good
2		600W MF/HF Transmitter	T2131	507801	Sailor	1996	F-TA-193: PH3		Good
3		AC Power Supply	N2171	509923	Sailor	1996	F-TA-193: PH3		No Good
4		AC Power Supply	N2171	509687	Sailor	1996	F-TA-193. PH3		Good
5		Antenna Coupler	AT 2112	509923	Sailor	1996	F-TA-193: PH3		No Good
6		Antenna Coupler	AT 2112	509864	Sailor	1996	F-TA-193: PH3		No Good
7		CW Unit	H2185	506852	Sailor	1996	F-TA-193: PH3		Good
8		CW Unit	H2185	506854	Sailor	1996	F-TA-193: PH3		No Good
1-2-3		All Wave Receiver							
1		Control Unit	RE2100	511707	Sailor	1996	F-TA-193: PH3		No Good
2		Control Unit	RE2100	511681	Sailor	1996	F-TA-193: PH3		Good
3		Duplex Receiver	R2120T	510716	Sailor	1996	F-TA-193: PH3		Good
4		Duplex Receiver	R2120T	510719	Sailor	1996	F-TA-193: PH3		No Good
5		Loudspeaker (2)	H2054		Sailor	1996	F-TA-193: PH3		Good
1-2-4		Spot Receiver							
1		MF/HF DSC W/K RX	RM2150	523416	Sailor	1996	F-TA-193: PH3		Good
2		Power Supply	N2165	510660	Sailor	1996	F-TA-193: PH3		Good

INVENTORY

Site Name: Lembar

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-2-5		Terminal Unit (DSC VHF/HF)							
1		DSC System	TT-6200A		Sailor	1996	F-TA-193: PH3		Good
2		LAN	TT - 101064		Sailor	1996	F-TA-193: PH3		Good
3		LAN I/O	TT - 101065		Sailor	1996	F-TA-193: PH3		Good
4		CPU	TT - 101051		Sailor	1996	F-TA-193: PH3		Good
5		CPU I/O	TT - 10123		Sailor	1996	F-TA-193: PH3		Good
6		PARALEL	TT - 101190		Sailor	1996	F-TA-193: PH3		Good
7		PARALEL I/O	TT - 101217		Sailor	1996	F-TA-193: PH3		Good
8		VHF MODEM	TT - 102239		Sailor	1996	F-TA-193: PH3		Good
9		HF MODEM	TT - 1022337		Sailor	1996	F-TA-193: PH3		Good
10		MODEM I/O (2)	TT - 102238		Sailor	1996	F-TA-193: PH3		Good
11		ALARM I/O	TT - 101242		Sailor	1996	F-TA-193: PH3		Good
12		POWER SUPPLY	TT - 101122		Sailor	1996	F-TA-193: PH3		Good
13		POWER INPUT	TT - 101241		Sailor	1996	F-TA-193: PH3		Good
1-2-6		DSC Operation Position Terminal / PC	TT-3634A						
		Compaq Proline 466		514AF055BA049	Sailor	1996	F-TA-193: PH3		Good
		Compaq Monitor 140		59AP3176811K	Sailor	1996	F-TA-193: PH3		Good
		Printer (H-1252A)	TT-1608C		Sailor	1996	F-TA-193: PH3		Good
		Monitor Display	TT-3602B		Sailor	1996	F-TA-193: PH3		Good
		DSC Alarm	TT-1542B		Sailor	1996	F-TA-193: PH3		Good
1-2-7		Signal Control Panel							
		Audio/Digital Matrix	MTX-1616	131	Sailor	1996	F-TA-193: PH3		Good
		Keyer	KK-1	356	Sailor	1996	F-TA-193: PH3		Good
		Loudspeaker	H2054		Sailor	1996	F-TA-193· PH3		Good
1-2-8		Telephone Repeater (Phone Patch)							
		Radio/Tel I/F Unit	RTU - 282	145	Sailor	1996	F-TA-193: PH3		No Good
1-2-9		ARQ Equipment							
		Radiotelex Modem	TT-1585E		Sailor	1996	F-TA-193. PH3		Good
		ARQ Key Board	TT-1601 A		Sailor	1996	F-TA-193: PH3		Good
		Printer (H1252A)	TT1680C	58AP3168210K	Sailor	1996	F-TA-193: PH3		Good
		Telex Alarm	TT-1542B		Sailor	1996	F-TA-193 PH3		Good
1-3		Receiver							
1		All Band Receiver	NSB-1061	-	INTI	1982			No Good
2		All Band Receiver	FRG-8800	9D310090	Yaesu	1983			Good

INVENTORY

Site Name: Lembar

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-4		VHF System							
1-4-1		Operation Console	RH-16-1	004	Sailor	1996	F-TA-193. PH3		Good
1-4-2		Multichannel VHF Tranceiver							
1		50W VHF Tranceiver	RT 2048	523689	Sailor	1996	F-TA-193: PH3		Good
2		50W VHF Tranceiver	RT 2048	523704	Sailor	1996	F-TA-193· PH3		Good
3		50W VHF Tranceiver	RT 2048	510932	Sailor	1996	F-TA-193· PH3		Good
4		50W VHF Tranceiver	RT 2048	510936	Sailor	1996	F-TA-193: PH3		Good
5		RF Linear Power Amplifier	A2080BE-H	568	Sailor	1996	F-TA-193: PH3		Good
6		RF Linear Power Amplifier	A2080BE-H	245	Sailor	1996	F-TA-193: PH3		Good
7		RF Linear Power Amplifier	A2080BE-H	239	Sailor	1996	F-TA-193: PH3		Good
8		RF Linear Power Amplifier	A2080BE-H	551	Sailor	1996	F-TA-193. PH3		Good
9		Duplex Filter		237190	Sailor	1996	F-TA-193: PH3		Good
10		Duplex Filter		237210	Sailor	1996	F-TA-193: PH3		Good
11		CH-70 VHF T/R			Sailor	1996	F-TA-193. PH3		Good
12		VHF T/R	RT2048	510952	Sailor	1996	F-TA-193· PH3		Good
13		High Low I/F Unit (2)			Sailor	1996	F-TA-193· PH3		Good
14		RF Power Amplifier	A2080BE-H	544	Sailor	1996	F-TA-193· PH3		Good
15		AC Power Supply	N163S	N16302	Sailor	1996	F-TA-193: PH3		Good
16		DC Power Supply	N420	N42002	Sailor	1996	F-TA-193. PH3		Good
17		AC Power Supply	PSF-1	TWQ11317/15	Sailor	1996	F-TA-193 PH3		Good
1-4-3		Terminal Equipment (DSC VHF / HF)							
		Audio/Digital Matrix	MTX-1616	123	Sailor	1996	F-TA-193: PH3		Good
1-4-4		Telephone Repeater							
		Radio/Tel I/F Unit	RTU-280	135	Sailor	1996	F-TA-193: PH3		No Good
1-4-5		VHF Radio Telephone							
1		VHF Transceiver	PSD4AD	45226	JRC	1974			Removed
2		VHF Transceiver Ch 20, 22, 26	FM-150	521528	FRC	1981			Good
3		VHF Transceiver (Multi Ch)	JHV-227YA	BH-16885	JRC	1989			Good
4		Duplexer	-	9-1241	JRC	1989			Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		15mHx1 Self Supporting	Square						
2		15mHx1 Self Supporting	Hexagonal						
3		12mHx1 Self Supporting	Iron Tower			1982			No Good
4		8mHx1 Self Supporting	Iron Tower			1982			No Good
5		15mHx1 Guy Pole	-						
6		12mHx1 Guy Pole	Pipe Tower			1986			Good
7		8mHx1 Guy Pole	Pipe Tower			1986			Good
8		30mH Self Supporting Structure	AT30SS			1996	F-TA-193: PH3		Good
9		Lightning Protector	-			1996	F-TA-193: PH3		Good
10		Grounding	-			1996	F-TA-193: PH3		Good
11		Installation Materials, one Lot	-			1996	F-TA-193. PH3		Good
2-2		**Antenna System**							
1		Inverted L Antenna (2)	HF7			1996	F-TA-193: PH3		Good
2		D/D Antenna (1)	E-22			1996	F-TA-193: PH3		Good
3		VHF Antenna (3)	VHF 3			1996	F-TA-193: PH3		Good
2-3		**Antenna Selector**							
1		Antenna Coupler	NFG-160	BS-24884		1989			No Good
		Antenna Distributor	AAD10/A-J1-6C	001004		1996	F-TA-193: PH3		No Good
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		PDB for TX/RX 7.5 kVA				1996	F-TA-193: PH3		Good
2		10 kVA Control Panel (AMF)	PL 95-7s	9507		1996	F-TA-193: PH3		Good
3		Starting, Fuel, Exhaust System				1996	F-TA-193. PH3		Good
4		100 L Fuel Day Tank				1996	F-TA-193· PH3		Good
5		Fuel Control Unit				1996	F-TA-193: PH3		Good
6		1000 L Fuel Storage Tank				1996	F-TA-193· PH3		Good
3-2		**Step-Up Transformer**							
1		9 9 kVA, 3P, 4W	STU-10P3	9509	PNT EL	1996	F-TA-193. PH3		Good
3-3		**Isolation Transformer**							
1		7 5 kVA, 3P, 4W	1ST-10P3	9515	PNT EL	1996	F-TA-193 PH3		Good

INVENTORY

Site Name: Lembar

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-4		UPS							
1		DC Power Supply	NBD-510	24893	JRC				No Good
2		DC Power Supply	AS-3512						Good
3		Stabilized DC Power Supply	SPB-10						Good
4		Accumulator 12V/200AH (2)			Yuasa				No Good
5		Accu Charger	M-850E		Instan	1983			No Good
6		Accu Charger	SM-245	A-07	Delta	1974			No Good
7		AVR 7 5 kVA, 3P, 4W	AVR 7P3	9503	PNT EL	1996			Good
3-5		**Engine Generator**							
1		Engine	TS-60	421193/42	Yanmar	1981			No Good
2		Engine	TS-60	12766/0621	Yanmar	1983			No Good
3		Generator 3kVA	YKG-3	0621	Yanmar	1981			No Good
4		Generator 3kVA	YKG-3	4234	Yanmar	1983			No Good
5		E/G System 10 kVA, 380V,3P, 4W	EG 10 RA	-	-	1996			Good
		Engine	V-1505E	664668	KUBOTA	1996			Good
		Generator	BC1-164-D	CO51684/5	Stanford	1996			Good
		E/G Panel	-	9507	-	1996			Good
4		**Measuring Equipment**							
1		Multi Tester	SP-15D	-	SANWA	1994			Good
2		Analog Oscilloscope	PM3065	DM639013	-	1996			Good
		- Plobe/Lead (x2)		2					
		- Power Cable (x1)		1					
		- Black Cover (x1)		1					
		- Operation Manual		1					
3		Fluke 87 Multimeter	-	63920368	Fluke	1996			Good
4		Fluke 87 Multimeter	-	63920365	Fluke	1996			Good
5		Fluke 87 Multimeter	-	63920384	Fluke	1996			Good
		- Test Lead Set (x1)		3					Good
		- Hoester House Yellow (x1)		3					Good
		- User Manual (x2)		6					Good
6		Insulation Tester	2406A	65WA1271	Yokogawa	1996			Good
		- Line Plobe (x1)		1					Good

INVENTORY

Site Name: Lembar

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
		- Earth Plobe (x1)		1					Good
		- Carrying Case (x1)		1					Good
		- Instruction Manual (x1)		1					Good
7		RF Coaxial Load Resistor	8201	17024	-	1996			Good
		RF Coaxial Load Resistor	8201	17025	-	1996			Good
		- Connection Cable (2)							Good
5		**Others**							
1		Air Conditioner	SAP K 162G5	-	Sanyo	1994			Good
2		Engineer Kit	No.615	-	Diamond	1994			No Good
3		Box Fan	JE-213T	-	Maspion	-			Good
4		Mini Fan	SF309WR	-	SUNON	-			Good
5		Clock	-	-	Junghans	-			No Good
6		Estinguisher ABC	YA-4L	-	Yamato	1984			Expired
7		Estinguisher ABC	YA-10L	-	Yamato	1978			Expired
8		Estinguisher ABC	YA-4L	-	Yamato	1978			Damaged
9		Typewritter	14"	-	ADLER	1976			Repaired
10		Typewritter	M16	-	BME	1975			No Good
11		Typewritter	14"	-	Olympia	1986			No Good
12		Services Engineers Kit	RS 541-365	1	-	1996			Good
13		Telephone Wet with Call Timer	-	2	-	1996			Good
14		Headset	DM 811	2	-	1996			Good
15		Hand set	-	6	-	1996			Good
16		Desk Microphone	-	2	Danmike	1996			Good
17		Morse Key	-	-	-	1996			No Good
18		Quartz Clock	-	1	Hanseatic	1996			Good
19		Service Engineer Kit	-	1	Proskit	1996			Good
20		Mouse	-	1	Compaq	1996			No Good
21		Instr. Manual Comp Compaq	-	1	-	1996			Good
22		Chair	-	1	-	1996			Good

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-**(1/11)

Item / Equipment	Engine/Generator 2 Sets / TS-60/YKG-3		
Manufacturer	Yanmar		
Manufacturer in year	1981, 1983		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☑ Unnecessary
	☐ Others		
General Comment for Maintenance:			

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-**(2/11)

Item / Equipment	Battery Charger 2 Units / Instant Type M850F. Delta Type SM-245		
Manufacturer	-		
Manufacturer in year	1983, 1974		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☑ Corrosion		☐ By next project
	☐ Lack of Spares		☑ Unnecessary
	☐ Others		
General Comment for Maintenance:			

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(3/11)**

Item / Equipment	Receiver MF/HF Console System-II / Re-2100		
Manufacturer	Sailor		
Manufacturer in year	1996		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☑ Others		

General Comment for Maintenance:

Since it has been repaired up to this time, the receiver is not so sensitive, and that is the only one functioned Receiver MF/HF Console

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(4/11)**

Item / Equipment	SSB Transceiver MF/HF / NSB 1051		
Manufacturer	Inti		
Manufacturer in year	1982		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☐ Immediacy
	☐ Lightning		☑ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		
General Comment for Maintenance: For spare on the Marine Mobile Frequency			

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(5/11)**

Item / Equipment	SSB Transceiver MF/HF / JSB-50		
Manufacturer	INTI		
Manufacturer in year	1981		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☐ Immediacy
	☐ Lightning		☑ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

For spare on the Marine Mobile Frequency

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(6/11)**

Item / Equipment	Transmitter / 13A/9/12		
Manufacturer	TSC		
Manufacturer in year	1942		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☑ Corrosion		☐ By next project
	☐ Lack of Spares		☑ Unnecessary
	☐ Others		
General Comment for Maintenance:			

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(7/11)**

Item / Equipment	MF Transmitter / NSD-1085		
Manufacturer	JRC		
Manufacturer in year	1968		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☑ Corrosion		☐ By next project
	☐ Lack of Spares		☑ Unnecessary
	☐ Others		
General Comment for Maintenance:			

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(8/11)**

Item / Equipment	Antenna Distributor / AAD10/A-J1-6G		
Manufacturer	-		
Manufacturer in year	1996		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☐ Immediacy
	☐ Lightning		☑ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		
General Comment for Maintenance:			

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(9/11)**

Item / Equipment	TX/RX MF/HF Console System I / -		
Manufacturer	Sailor		
Manufacturer in year	1996		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☐ Immediacy
	☑ Lightning		☑ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

On 1997 TX/RX System-I damaged by lightening, up to this time it has not been repaired and not under guaranteed of the Contractor any more.

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(10/11)**

Item / Equipment	Radio Telephone Interface Unit / RTU-280		
Manufacturer	JPS		
Manufacturer in year	1996		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

To be repaired immediately, in order that Lembar Coast Station can make the communication by using VHF telephone call, because without the above telephone unit we can not do anything for the using of un-registered Radio VHF between ship and Agent.

STATUS OF TROUBLES

SITE NAME : LEMBAR **LBR-108-(11/11)**

Item / Equipment	All HF Transceiver / JSB-161		
Manufacturer	JRC		
Manufacturer in year	1989		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☑ Others		

General Comment for Maintenance:

Suggested, it must be repaired totally and the spare part can be functioned.

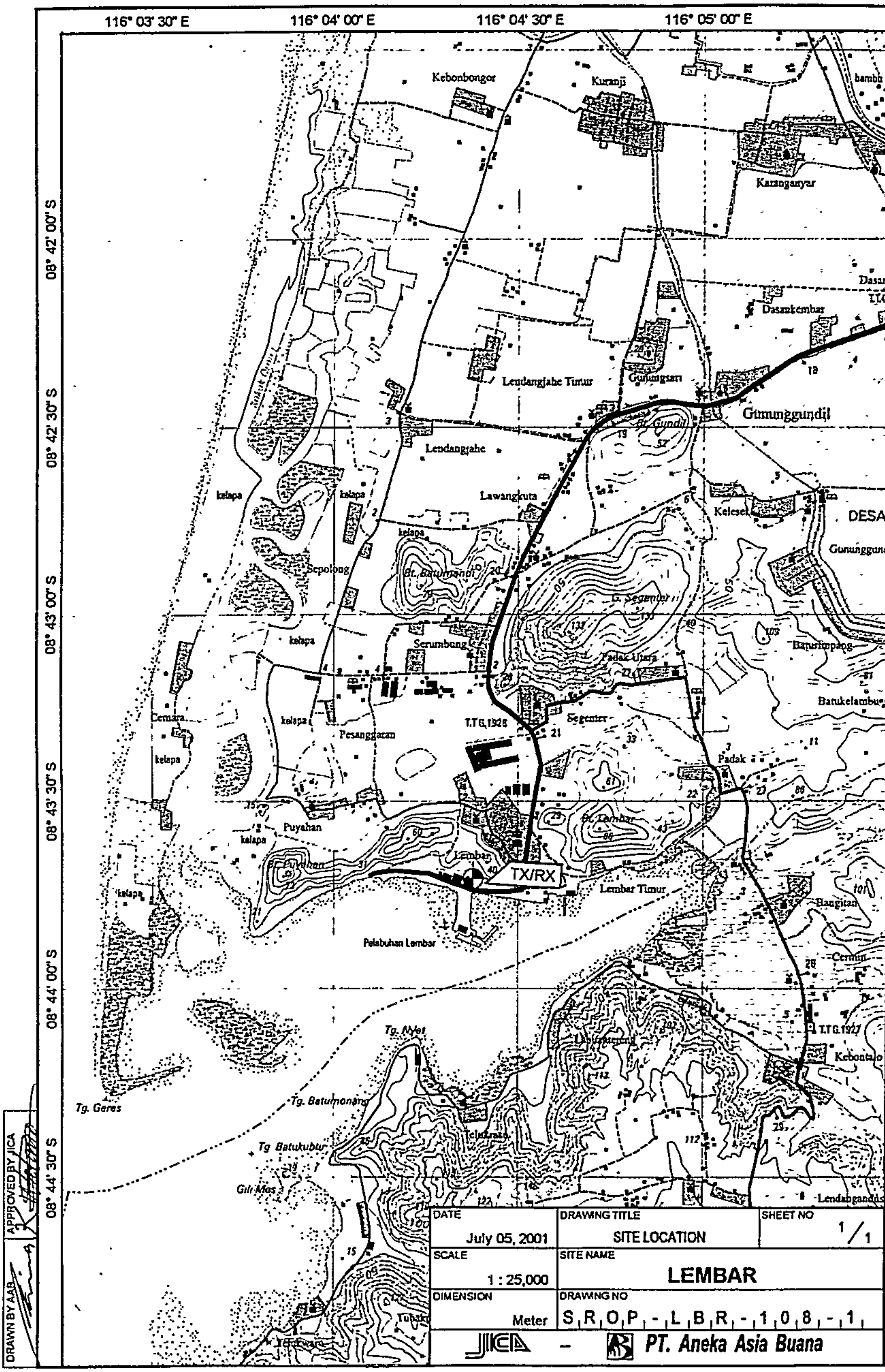
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Lembar

LBR-108-(1/1)

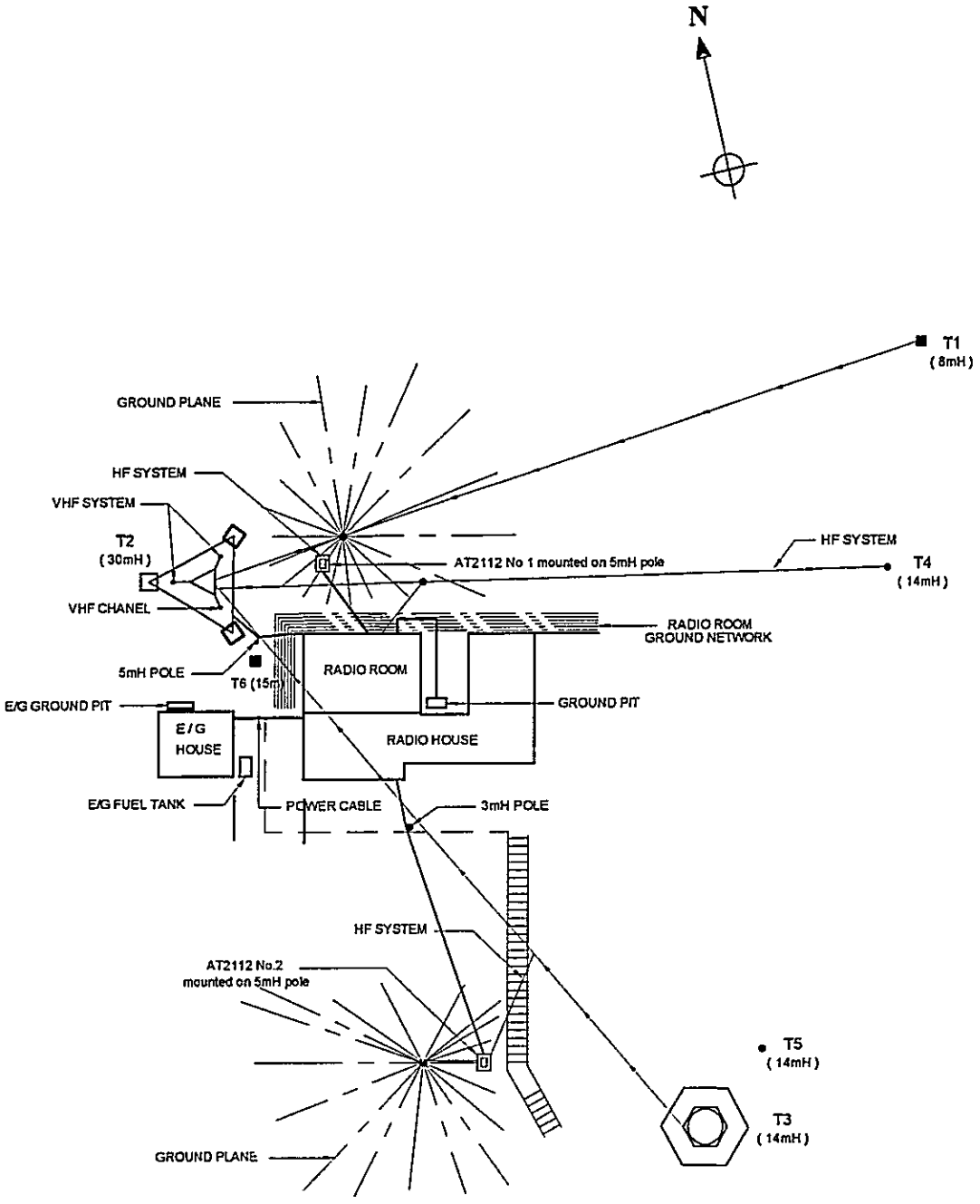
Call Sign : Mobile Service : PKD.3
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	438,0	A1A	25		
2	500,0	A1A	25		
3	2 174,5	F1B	50		
4	2 177,0	F1B	50		
5	2 189,5	F1B	50		
6	2 187,5	F1B	50		
7	6.329,0	F1B	50		
8	6 283,0	F1B	50		
9	6 331,0	F1B	50		
10	6 312,0	F1B	50		
11	8 431,0	F1B	50		
12	8 391,0	F1B	50		
13	2 182,0	J3E	100		
14	2 690,0	J3E	100		
15	2 090,0	J3E	100		
16	6 215,0	J3E	100		
17	6 504,0	J3E	100		
	VHF Service				
18	156,525	G2B	50		
19	156,800	G3E	50		
20	156,600	G3E	50		
21	156,650	G3E	50		
22	156,700	G3E	50		
	Fix Service				
23	5 310,0	J3E	100		



DATE	DRAWING TITLE	SHEET NO
July 05, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 25,000	LEMBAR	
DIMENSION	DRAWING NO	
Meter	S R O P - L B R - 1 0 8 - 1	

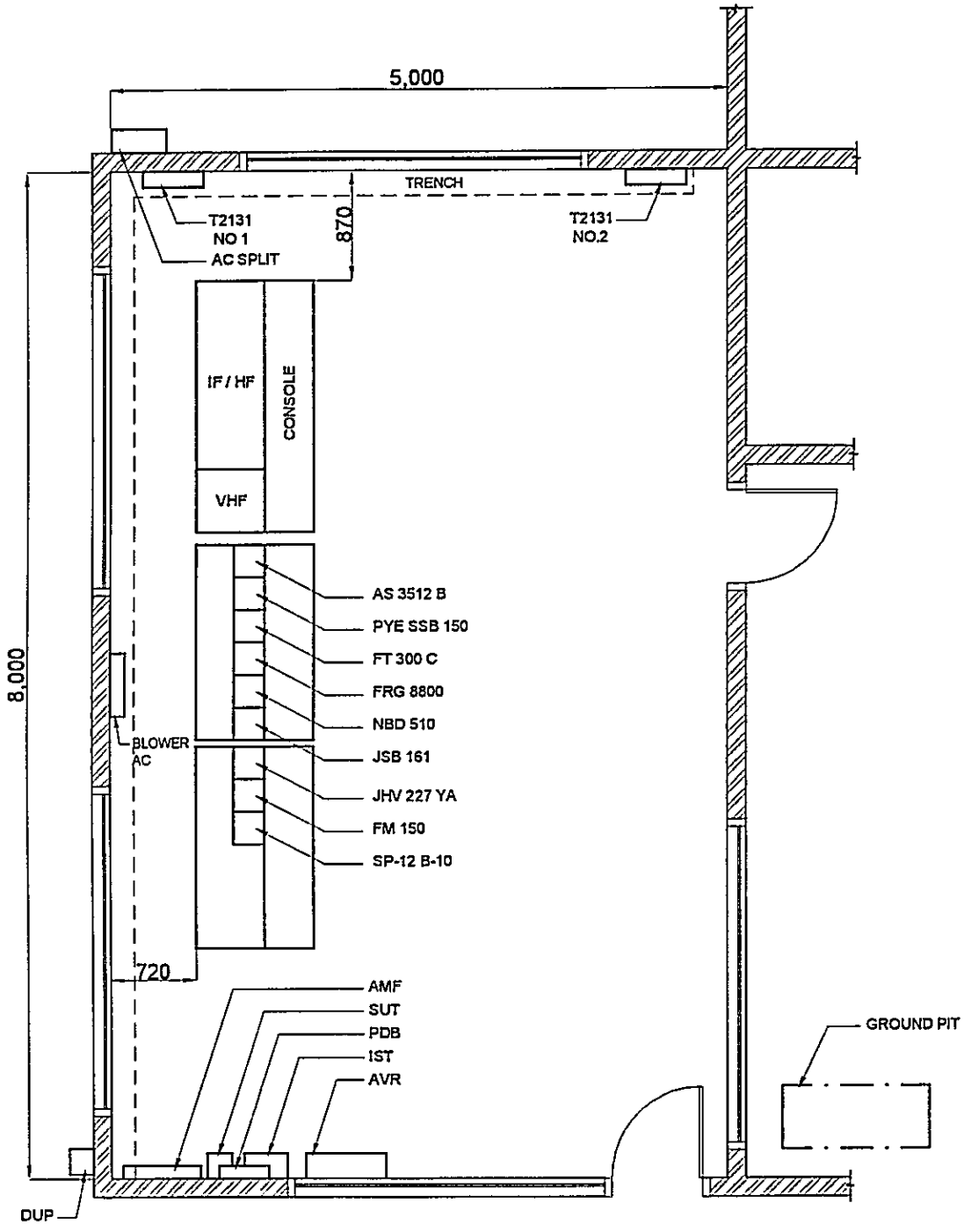
JICA - PT. Aneka Asia Buana



APPROVED BY JICA

DRAWN BY AAB

DATE: July 01, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 250	SITE NAME: LEMBAR	
DIMENSION: Milimeter	DRAWING NO: SROP-LBR-108-2	
JICA --	PT. Aneka Asia Buana	



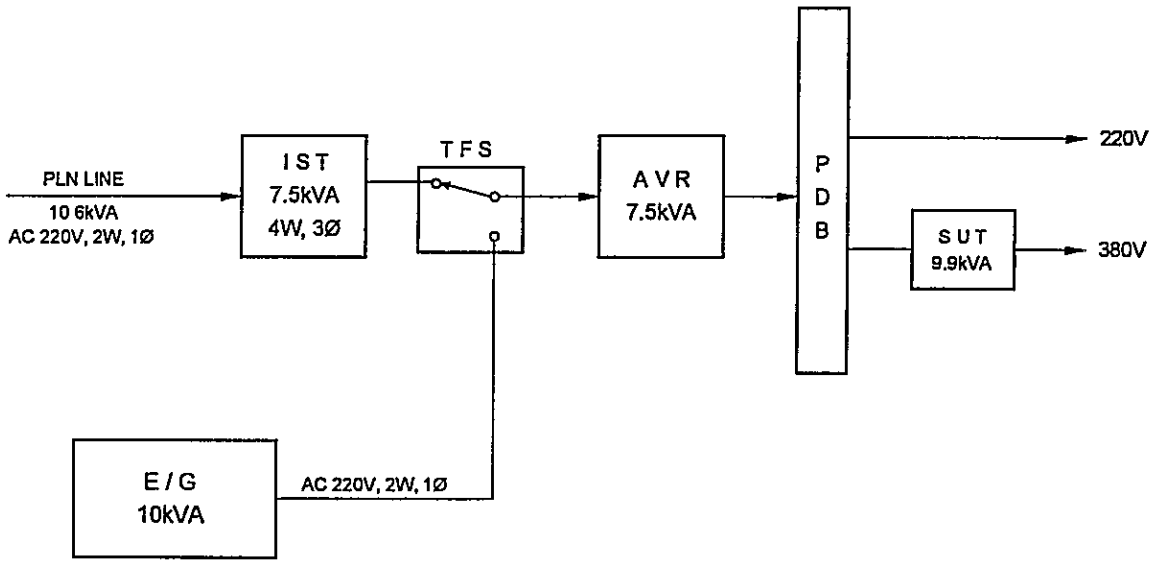
LEGEND

AVR	AUTOMATIC VOLTAGE REGULATOR
IST	ISOLATION TRANSFORMER
PDB	POWER DISTRIBUTION BOARD
SUT	STEP - UP TRANSFORMER

APPROVED BY JCA

DRAWN BY AAB

DATE: August 06, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1 / 1
SCALE: 1 : 50	SITE NAME: **LEMBAR**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,L,B,R,-,1,0,8,-,3,	
JICA –	PT. Aneka Asia Buana	



APPROVED BY JICA

DRAWN BY AAB

LEGEND

AC	ALTERNATING CURRENT	TRX	TRANSCEIVER (ING)
AVR	AUTOMATIC VOLTAGE REGULATOR	V	VOLT
E/G	ENGINE GENERATOR	W	WIRE
HF	HIGH FREQUENCY	Ø	PHASE
IST	ISOLATION TRANSFORMER		
kVA	KILO VOLT AMPERE		
SUT	STEP UP TRANSFORMER		
TFS	TRANSFER SWITCH		

DATE: August 01, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: LEMBAR	
DIMENSION: Milimeter	DRAWING NO: SROP-LBR-108-6	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station

Padang Bai

(Coast Station No. 109)

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	PADANG BAI		
CLASS	4th-A	NO.	109

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Padang Bai			115° 30′ 28″ E	08° 31′ 58″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Denpasar [Taking time 1.30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car to Location [Taking time 3.00 hr]	☑ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ 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	
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes	No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑	☐ Towers (Masts)
☐ Basin	☐ Clay	☑ Stony	☐ Ground Subsidence	☑	☐ Grounding system
☐ Valley	☐ Sandy			☑	☐ Lightning system
Altitude	70.00 M		Telephone Lines	☑	☐ Feeder Cable Way
Land area	1,000 m²		☐ Lines	☐	☑ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Painting
Flooring	Tile

Room Area (m²)	
Operation room	18.00
E / G room	25.00

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	22	4

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	2 Times	
Total interpt. hours /month	4 Hours	
Max interpt. hours at once	6 Hours	

Existing Power Conditions	Good	Bad
Power Supply System	☑	☐
Operations of E/G	☑	☐
Operations of AVR	☐	☐

Capacity of fuel for engine	
Day tank	6 Liter
Main tank	k Liter

E/G Stand-by System	
☐	Single System
☑	Dual System

Remark One E/G damaged

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Send to Benoa technician
Examples of major failure	Power Supply damaged
Sufficiency of spares	Battery

Records of damages		Environmental Conditions	Good	Bad
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☐ Lightning		☑	☐	Air pollution
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2 Spares	☑ Enough	☐ Reasonable	☐ Not enough
3 Measuring eqpt /tools	☐ Enough	☐ Reasonable	☑ Not enough
4 Number of Operator	☑ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6 Capability of Operator	☑ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	4 (4)	()
Technician (skilled)	()	()
Administrator		
T o t a l	5	

Training Record				
Course	Class	Location	Period	Trainee
Oru	Oru	Surabaya		4

SUMMARY OF COAST STATION

SITE	PADANG BAI		
CLASS	4th-A	NO.	109

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	So many Frequency used by Ships/Mobile service
Remarks	

INVENTORY

Site Name: Padang Bai

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver	FT-300	CU-8504006	Yaesu	1985			Good
2		SSB Transceiver	FS-1000	5590-1451	Furuno	1985			Good
3		SSB Transceiver	IC-M700	NS 20321	ICOM	1998			Good
1-2		**VHF System**							
1		VHF Transceiver CH 12-14-16-20-22	FM-400	245375	Furuno	1989			Good
2		VHF Transceiver	IC-M126	06782	ICOM	1998			Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		Antenna Tower	Galvanis Pipe			1994			Good
2		Antenna Pole	Galvanis Pipe			1999			Good
2-2		**Antenna System**							
1		Open Dipole Antenna				1985			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply	RE-2000	183027	Vedio	1985			Good
2		Power Supply	GSS-3000	S/N	Diamond	1998			Good
3		Power Supply	EP 4010		IC	1988			Damaged
4		Battery Charger		309432	Delta	1998			Good
5		Accumulator			GS	1996			
3-2		**Engine Generator**							
1		Generator 3kVA	TS-60	0444483	Yanmar	1985			Damaged
2		Generator	TS-3	66719	Kubota	1998			Good
4		**Measuring Equipment**							
1		AVO Meter							
5		**Others**							
1		AC Split	MS-18 NV	7000780	Mitsubishi	1998			Good

STATUS OF TROUBLES

SITE NAME : PADANG BAI **PDB-109-(1/1)**

Item / Equipment	Power Supply / -		
Manufacturer	IC		
Manufacturer in year	1988		
Defective panel / unit	Can no functioned		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Work does not good and un - normal
All of Radio are placed on the special radio table

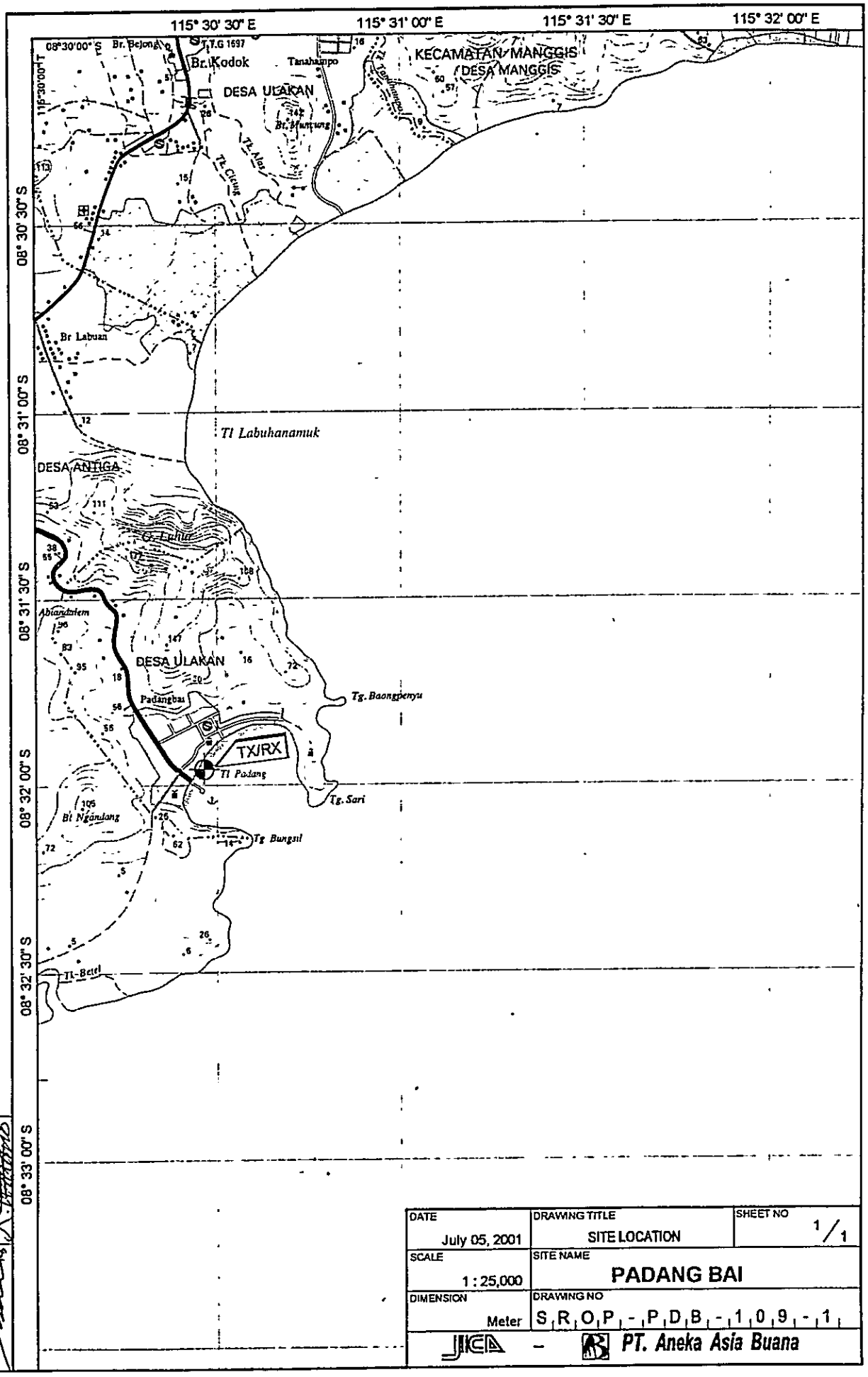
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Padang Bai

PDB-109-(1/1)

Call Sign : Mobile Service : PKD.61
Fix Service :

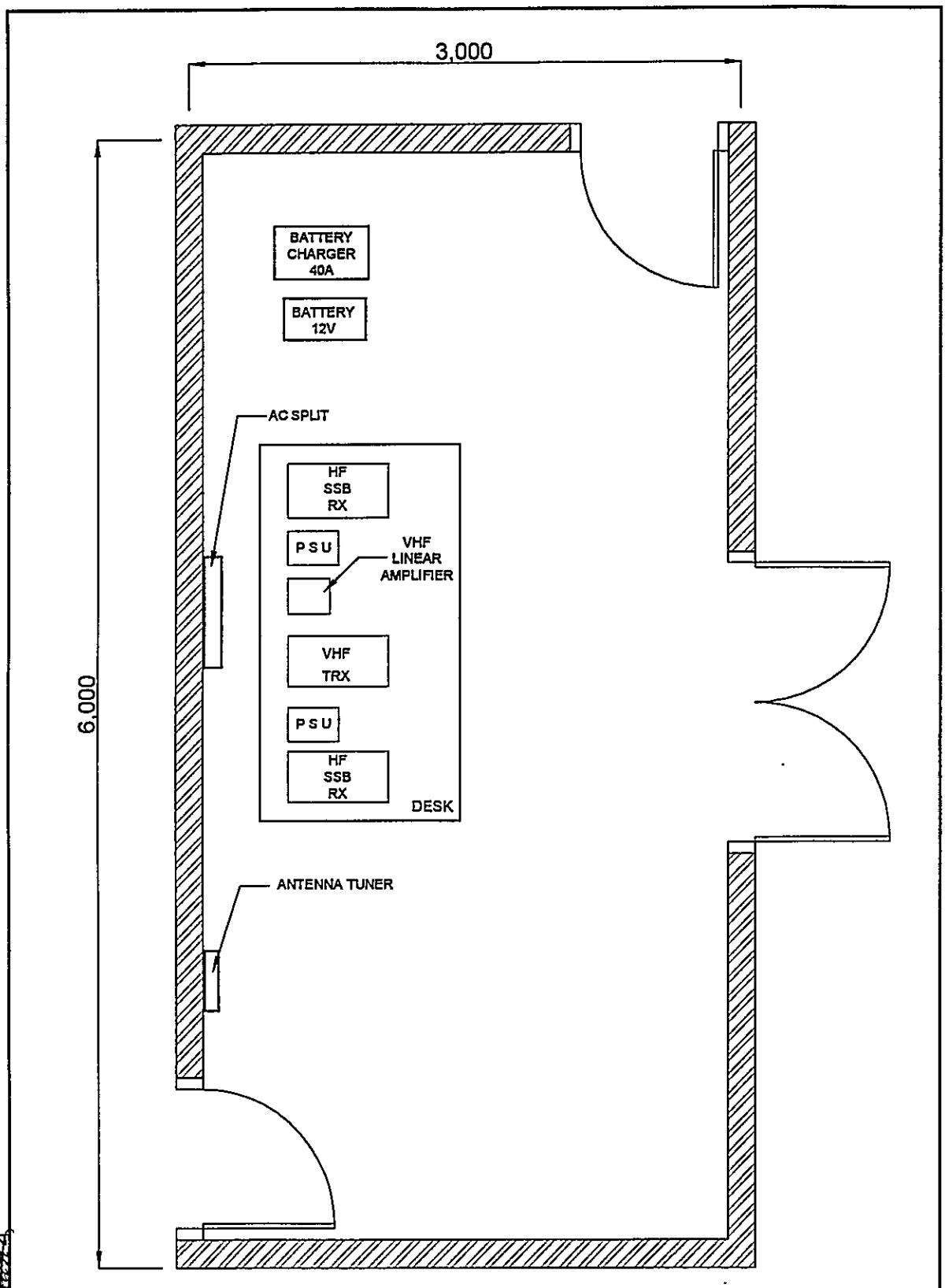
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	6 215,0	J3E	100		
	VHF Service				
3	Channel-16	G3E	25		
	Fix Service				
4	5 316,0	J3E	100		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 25,000	SITE NAME: PADANG BAI	
DIMENSION: Meter	DRAWING NO: SROP-PDB-109-1	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



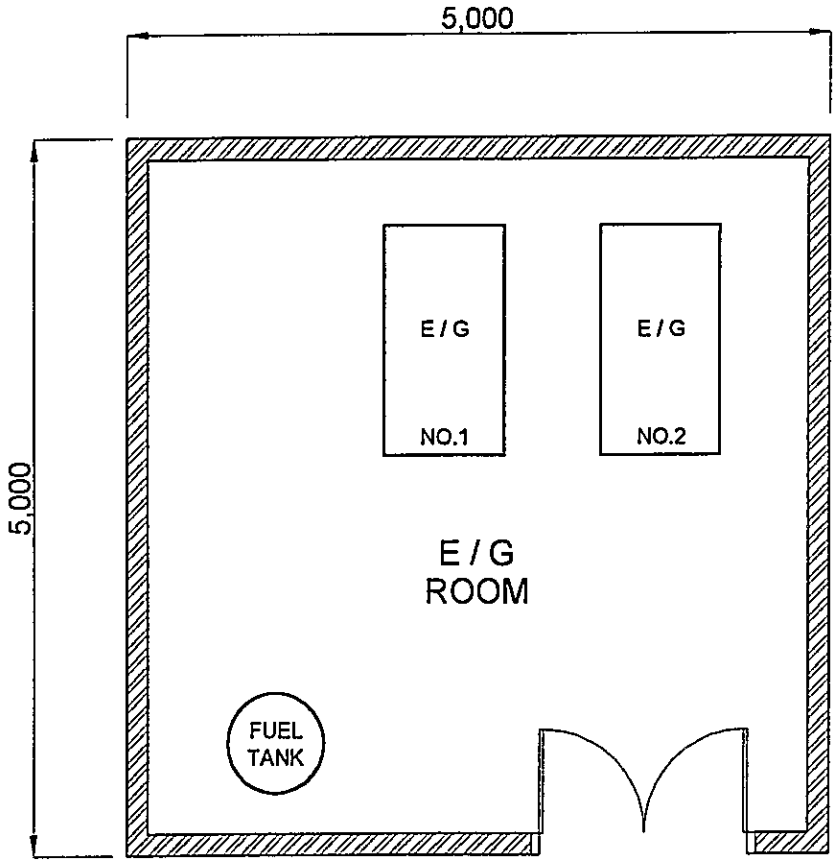
LEGEND

PSU : POWER SUPPLY UNIT
V : VOLT
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: August 06, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 30	SITE NAME: PADANG BAI	
DIMENSION: Milimeter	DRAWING NO: SROP-PDB-109-3	
JICA –	PT. Aneka Asia Buana	



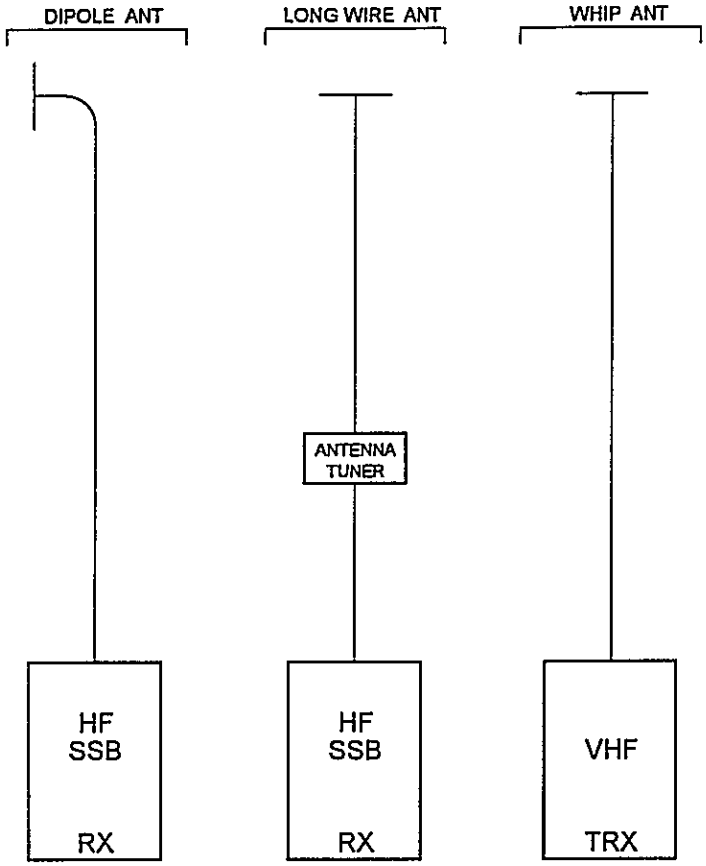
LEGEND

E/G : ENGINE GENERATOR

DATE: August 06, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: PADANG BAI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,D,B,-,1,0,9,-,4,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



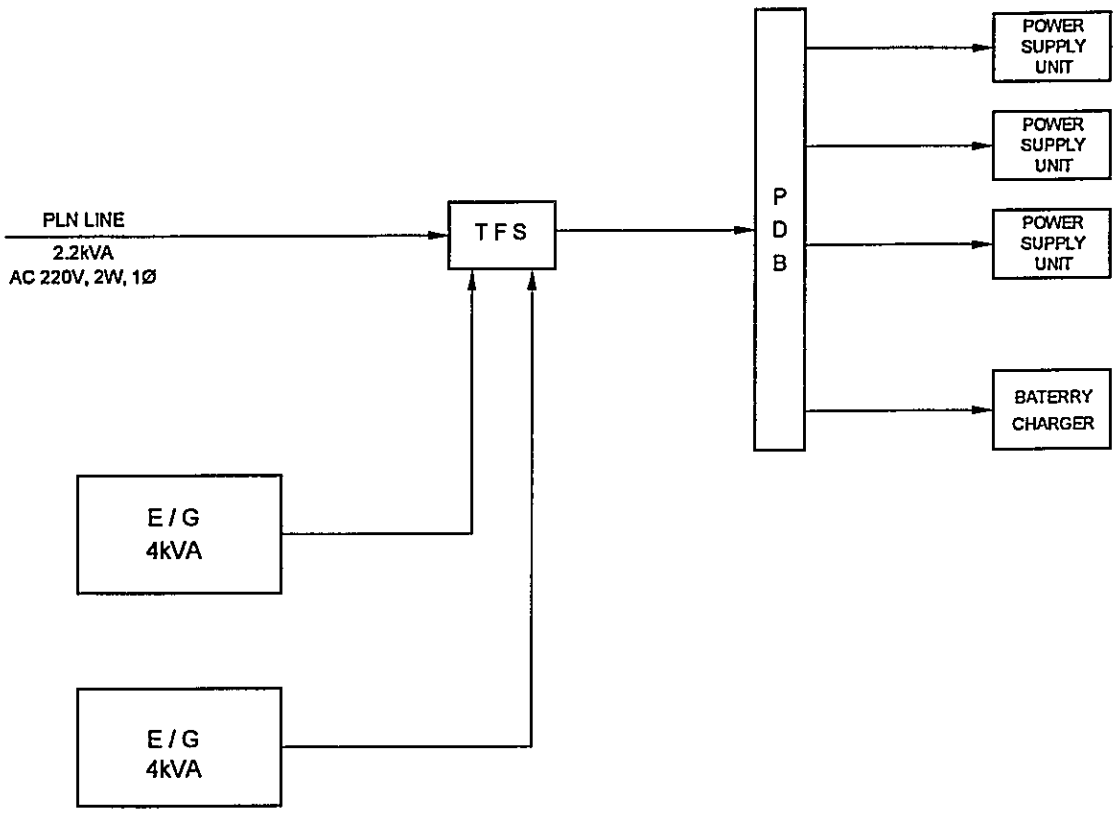
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 27, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: **PADANG BAI**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,D,B,-,1,0,9,-,5,	
JICA – PT. Aneka Asia Buana		



APPROVED BY JICA

DRAWN BY AAB

LEGEND

AC	ALTERNATING CURRENT
E/G	ENGINE GENERATOR
HF	HIGH FREQUENCY
kVA	KILO VOLT AMPERE
TFS	TRANSFER SWITCH
V	: VOLT
W	. WIRE
Ø	: PHASE

DATE: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: **PADANG BAI**	
DIMENSION: Milimeter	DRAWING NO.: SROP-PDB-109-6	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station
Celukan Bawang
(Coast Station No. 110)

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	CELUKAN BAWANG		
CLASS	4th-A	NO.	110

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan No. 32			114° 49′ 49″ E	08° 11′ 23″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Denpasar	[Taking time: 1:50 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car	to Location	[Taking time: 3.00 hr.]	☑ Paved	☐ Medium	☐ Motel	
			☐ Unpaved road	☑ Light		
				☐ 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	
				Yes	No
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☑	☐ Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐ Towers (Masts)
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑	☐ Grounding system
☐ Basin	☐ Clay		☑ Ground Subsidence	☑	☐ Lightning system
☐ Valley	☑ Sandy			☑	☐ Feeder Cable Way
Altitude	2.50 M		Telephone Lines	☑	☐ City water
Land area	1,454 m²		☐ Lines		

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile

Room Area (m²)	
Operation room	30.00
E / G room	6.00

Remark One power supply damaged

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	2.2	3

Quality of PLN source		
Fluctuations	9.09 V ± %	
Availability of power per day	24 Hours	
Power interruption /month	Times	
Total interpt. hours /month	Hours	
Max. interpt. hours at once	10 Hours	

Existing Power Conditions	Good	Bad
☑ ☐ Power Supply System	☑	☐
☑ ☐ Operations of E/G	☑	☐
☐ ☐ Operations of AVR	☐	☐

Capacity of fuel for engine	
Day tank	10 Liter
Main tank	k Liter

E/G Stand-by System	
☐	Single System
☑	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Reported and repaired in Benoa
Examples of major failure	Radio UHF damaged/Can not transmit
Sufficiency of spares	

Records of damages		Environmental Conditions	Good	Bad
☐ Heavy rainfall				
☐ Storm		☑ External noises	☑	☐
☐ Lightning		☑ Air pollution	☑	☐
☑ Other calamity	Roof damaged			

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☑ Not enough
3 Measuring eqpt./tools	☐ Enough	☑ Reasonable	☐ Not enough
4 Number of Operator	☑ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6 Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	2 ()	()
Technician (skilled)	()	()
Administrator		
Total	3	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	CELUKAN BAWANG		
CLASS	4th-A	NO.	110

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			1	1996			26
1997					1992			4	1997			49
1998					1993			15	1998			60
1999					1994			18	1999			90
2000					1995			33	2000			92

7. COMMENTS

Suggestion	Not all of incoming ships to Celukan Bawang were contecting to Coast Station To increase the information/Service at Coast Station, it must be installed Telephone Call system
Remarks	

INVENTORY

Site Name: Celukan Bawang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver	NTD-177Z	026-30	PT.INTI	1979			
2		SSB Transceiver	FS-1000	5590-2572	Furuno	1989			Damaged
3		SSB Transceiver	IC-M700	4465	ICOM	1991			Good
4		SSB Transceiver	IC-M700	3489	ICOM	1992			Good
1-2		**Receiver**							
1		Receiver	FRG-7700	IG-080524	Yaesu	1983			Good
1-3		**VHF System**							
1		VHF Transceiver	FM-400H	247642	Furuno	1989			Damaged
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		20mH Antenna Tower (x2)				1980			Good
2		18mH Pipe Tower (x1)				1983			Good
3		20mH Pipe Tower (x2)				1991			Good
2-2		**Antenna System**							
1		Dipole Antenna			INTI	1980			
2		Dipole Antenna			Furuno	1989			
3		Longwayer Antenna			ICOM	1991			Good
4		VHF Gazden Antenna			Furuno	1989			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		Power Supply	MG-700		Mirusa	1989			Good
2		Power Supply	RE-2000		Vedio	1989			Damaged
3		Power Supply	BL-1040A		Bell				Good
4		Battery Charger			Asahi	1991			Good

INVENTORY

Site Name: Celukan Bawang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-2		**Engine Generator**							
1		Engine Generator (3kVA)							Good
2		Engine Generator (3kVA)							Good
4		**Measuring Equipment**							
1		AVO Meter	SP-10D		Sanwa	1979			
5		**Others**							
1		Operator Desk (2)				1984			
2		Chief Coastal Desk (1)				1984			
3		Type Macine Desk (1)				1985			
4		Chair (7)				1983			
5		Filling Cabinet (2)				1979			
6		Wooden Rack (2)				1983			
7		Cupboard (2)				1981			
8		Clock			Jetco	1977			
9		Fan Hoover				1980			
10		Red Suzuki Motorcycle	A-100		Suzuki	1980			

STATUS OF TROUBLES

SITE NAME : CELUKAN BAWANG **CBW-110-(1/1)**

Item / Equipment	VHF Transceiver, Power Supply / -		
Manufacturer	Furuno		
Manufacturer in year	1989		
Defective panel / unit	Totally damage, Voltage can not decrease		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☑ Corrosion		☐ By next project
	☑ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Process for Repairing is too long time

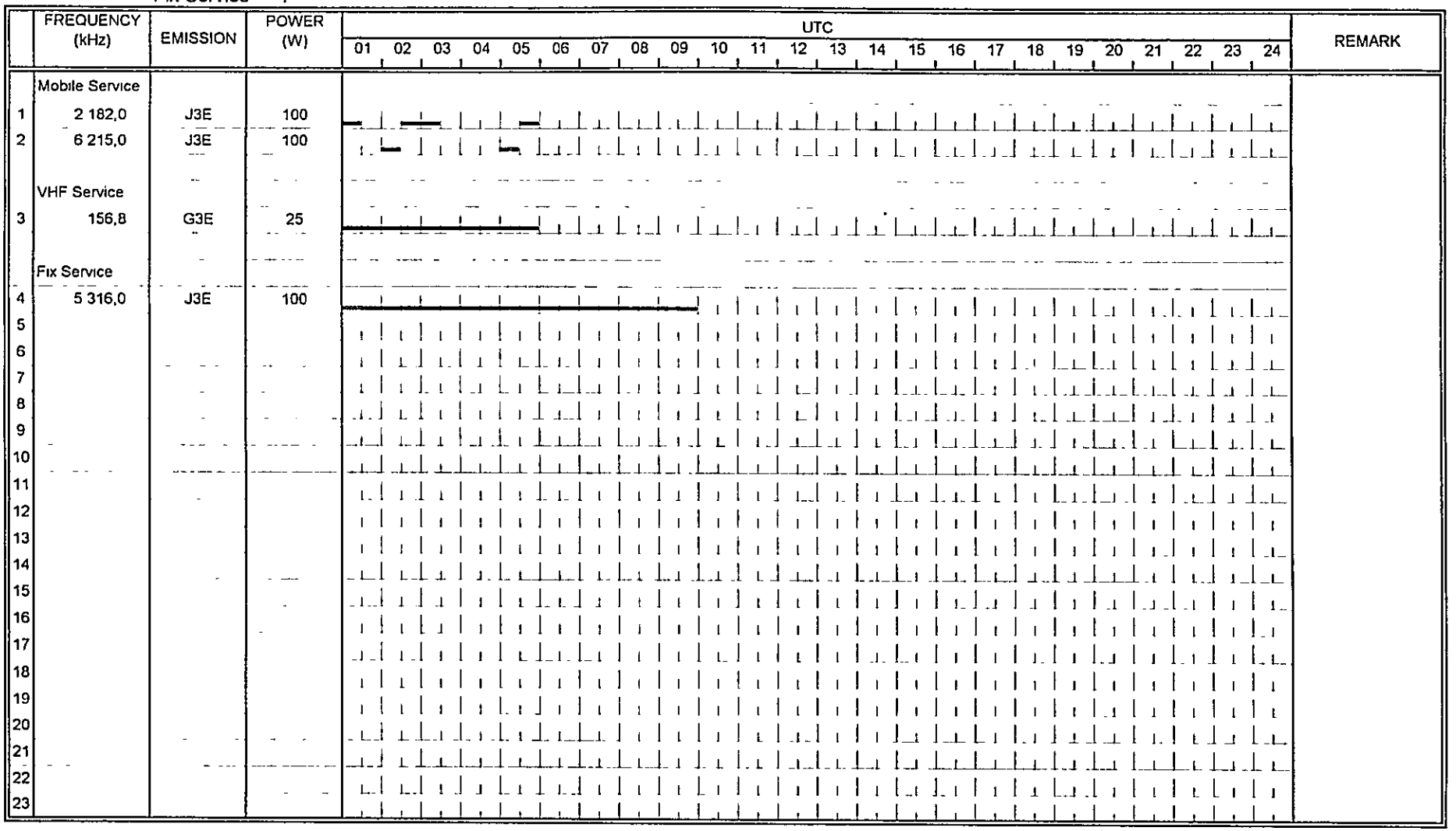
Availability of stationery is not be attention

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Celukan Bawang

CBW-110-(1/1)

Call Sign : Mobile Service PKD 30
Fix Service .



	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	6 215,0	J3E	100		
	VHF Service				
3	156,8	G3E	25		
	Fix Service				
4	5 316,0	J3E	100		
5					
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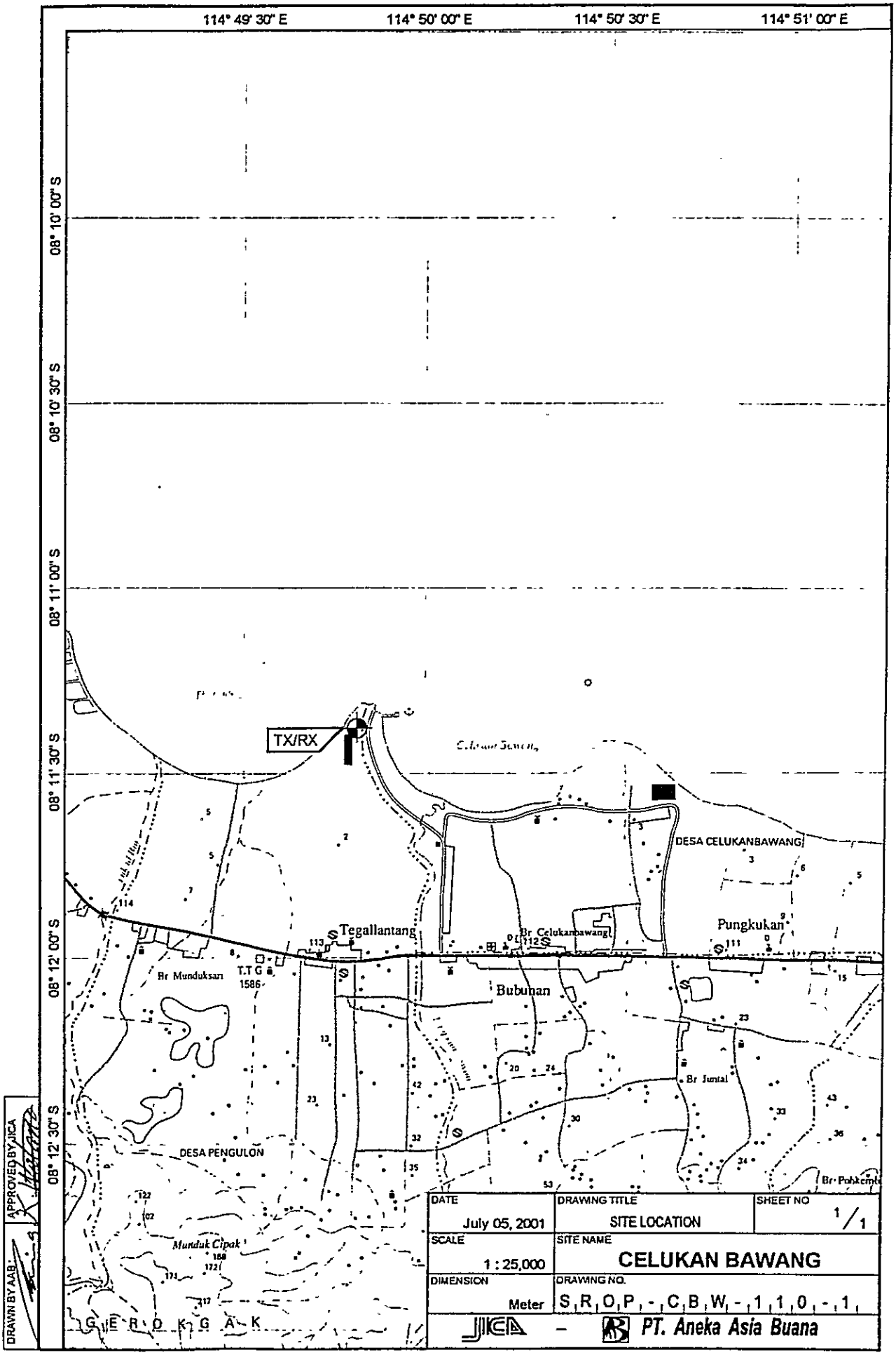
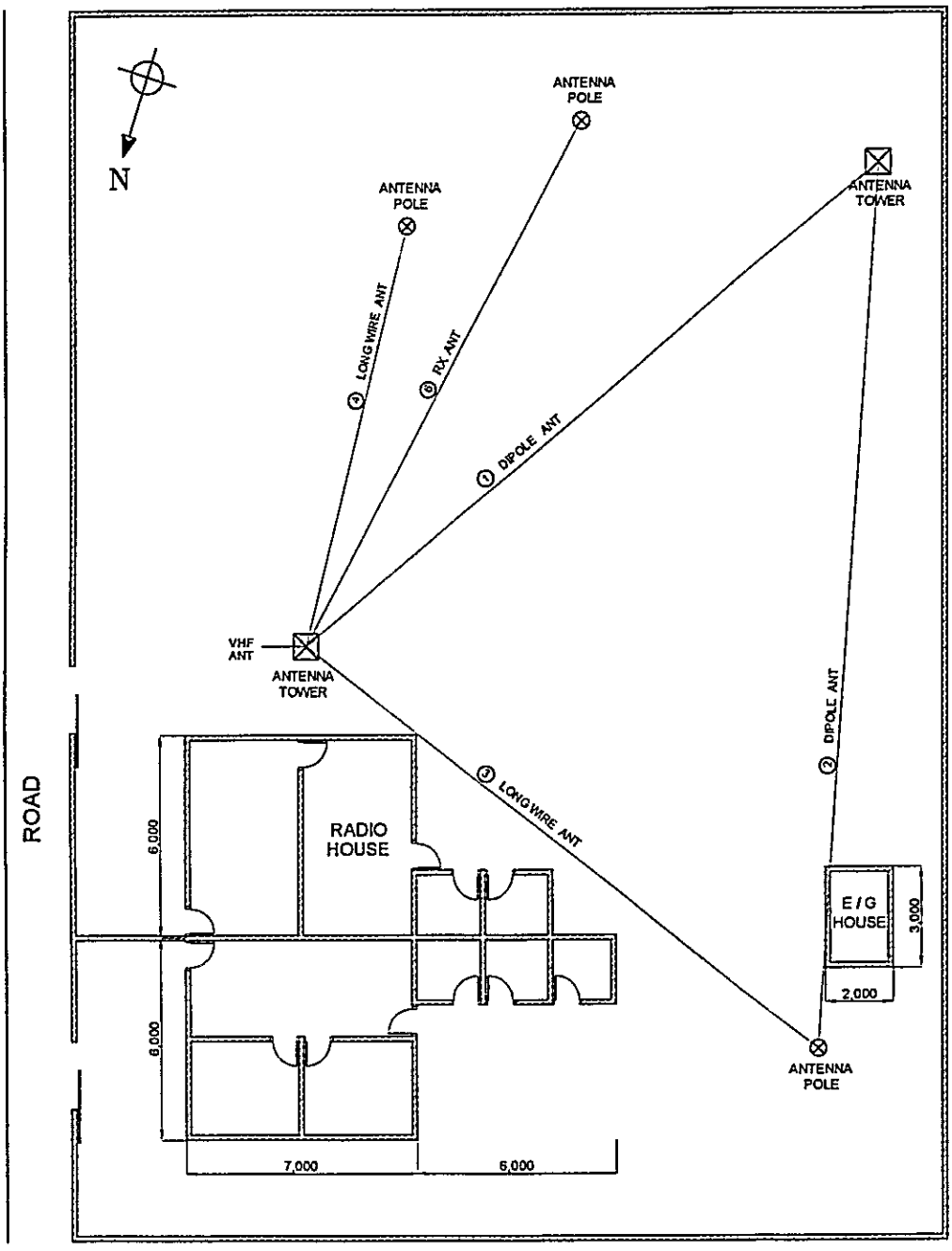
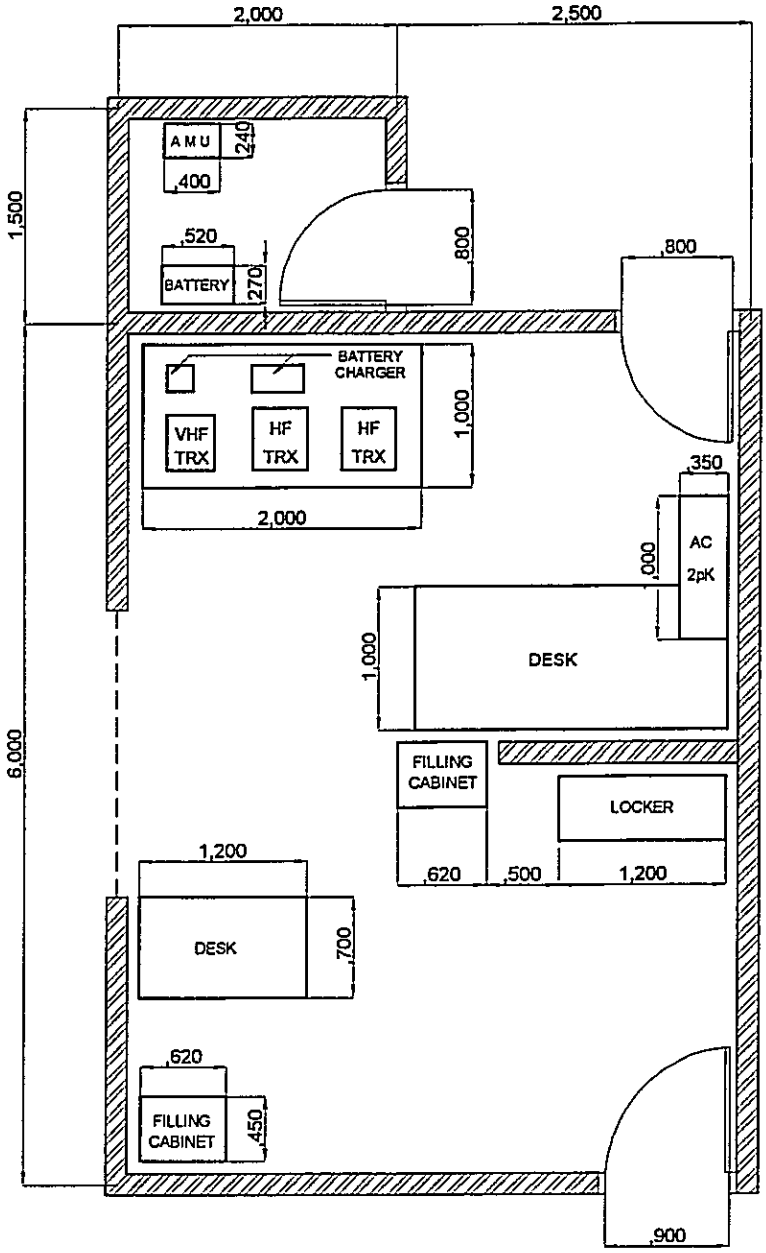

114° 49' 30" E
114° 50' 00" E
114° 50' 30" E
114° 51' 00" E
08° 10' 00" S
08° 10' 30" S
08° 11' 00" S
08° 11' 30" S
08° 12' 00" S
08° 12' 30" S
TX/RX
DESA CELUKANBAWANG
Tegallantang
Br Celukanbawang
Pungkukan
Br Munduksari
T.T G 1586
Bubunan
Br Jurnal
DESA PENGULON
Munduk Cipak
GEROKGAK
DRAWN BY AAB
APPROVED BY JICA
DATE
July 05, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/1
SCALE
1 : 25,000
SITE NAME
CELUKAN BAWANG
DIMENSION
Meter
DRAWING NO.
S,R,O,P,-,C,B,W,-,1,1,0,-,1
JICA
PT. Aneka Asia Buana



APPROVED BY JICA

DRAWN BY AAB

DATE: August 06, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 200	SITE NAME: **CELUKAN BAWANG**	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,C,B,W,-,1,1,0,-,2,	
JICA – PT. Aneka Asia Buana		



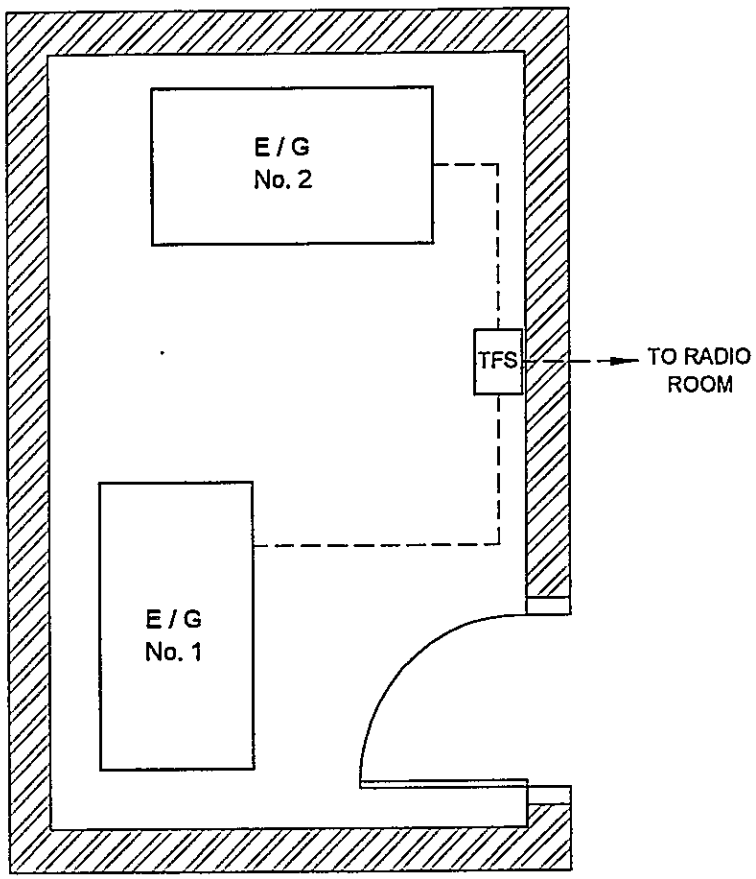
LEGEND

AMU	ANTENNA MATCHING UNIT
HF	HIGH FREQUENCY
TRX	TRANSCEIVER (ING)
VHF	VERY HIGH FREQUENCY

DATE: July 02, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: CELUKAN BAWANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,C,B,W,-,1,1,0,-,3,	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA:

DRAWN BY AAB:



LEGEND

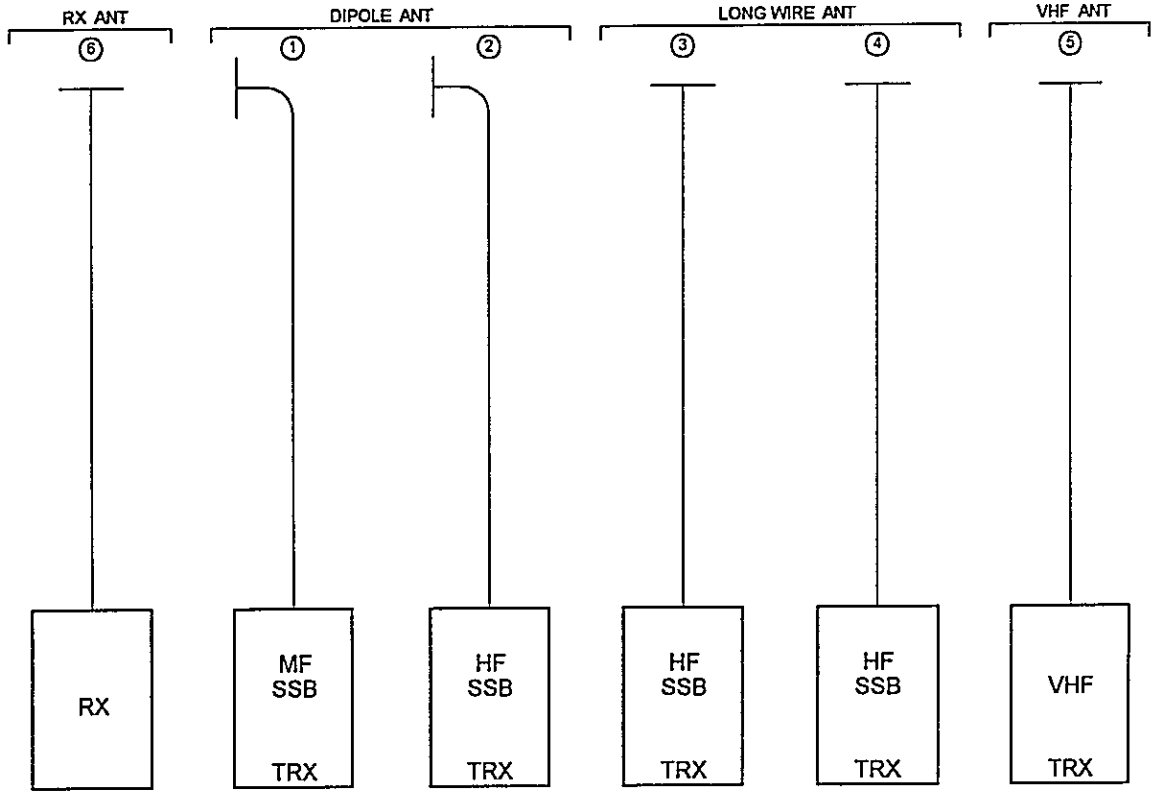
E/G : ENGINE GENERATOR

TFS : TRANFER SWITCH

DATE: Sept 10, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: CELUKAN BAWANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,C,B,W,-,1,1,0,-,4,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



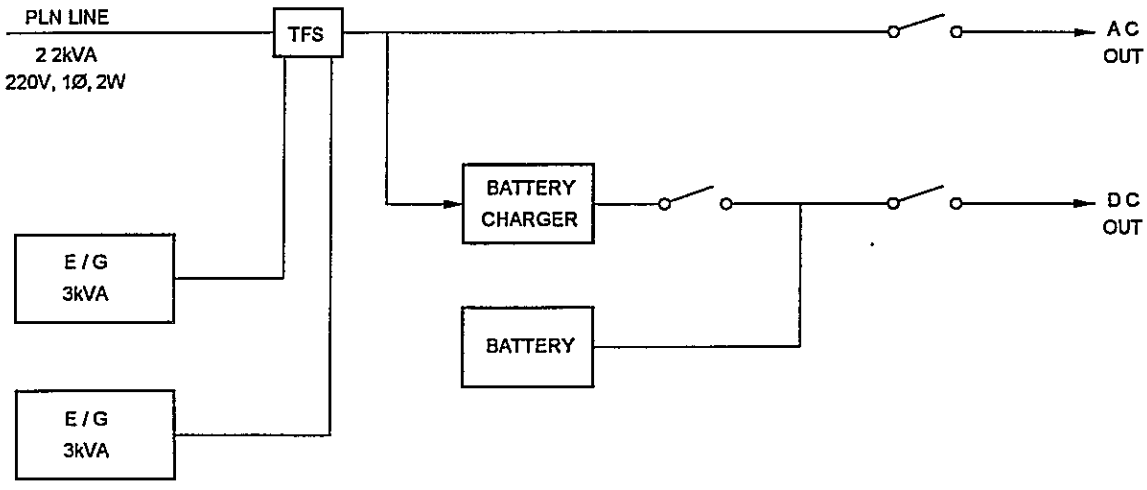
LEGEND

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

DATE: July 27, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: CELUKAN BAWANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,D,S,-,1,1,2,-,5,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



LEGEND

AC	ALTERNATING CURRENT
E/G	ENGINE GENERATOR
kVA	KILO VOLT AMPERE
TFS	TRANSFER SWITCH
V	VOLT
W	WIRE
Ø	PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 10, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: CELUKAN BAWANG	
DIMENSION: Milimeter	DRAWING NO: SROP-CBW-110-6	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station
Bima
(Coast Station No. 111)

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	BIMA		
CLASS	4th-A	NO.	111

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Jurusan Pantai Ule, Kabupaten Bima	646833		118° 43′ 28″ E	08° 26′ 28″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Denpasar	[Taking time	1.50 hr]	☐ Highway	☐ Heavy	☑ Hotel	505,818
By Air	to Bima	[Taking time.	1.00 hr.]	☑ Paved	☑ Medium	☐ Motel	
By Car	to Location	[Taking time	1.00 hr]	☐ Unpaved road	☐ Light		
					☐ 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
				Yes No
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☑ ☐ Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☑ Towers (Masts)
☐ Hill-top	☑ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☐ Grounding system
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☐ Lightning system
☑ Valley	☐ Sandy		☑ Tide	☐ ☐ Feeder Cable Way
Altitude	0 50 M		Telephone Lines	☐ ☑ City water
Land area	1,000 m²		☑ 1 Lines	

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile

Room Area (m²)	
Operation room	9 00
E / G room	12 00

Remark One E/G Damaged

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	110/220 V
Phase	1	1
Wire	2	2
kVA	5 5	3

Quality of PLN source	
Fluctuations	11 V ± 5 %
Availability of power per day	24 Hours
Power interruption /month	2 Times
Total interpt. hours /month	7 Hours
Max. interpt. hours at once	5 Hours

Existing Power Conditions		
	Good	Bad
Power Supply System	☑	☐
Operations of E/G	☑	☐
Operations of AVR	☑	☐

Capacity of fuel for engine	
Day tank	6 Liter
Main tank	k Liter

E/G Stand-by System	
☐	Single System
☑	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	
Examples of major failure	
Sufficiency of spares	

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☐ Lightning		☑	☐	Air pollution
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☑ Not enough
3 Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☑ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6 Capability of Operator	☑ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	2 (2)	()
Technician (skilled)	()	()
Administrator		
T o t a l	3	

Training Record

Course	Class	Location	Period	Trainee
Prc	II	Surabaya	1992	
Oru	Oru	Benoa	1997	
Oru	Oru	Benoa	1998	

SUMMARY OF COAST STATION

SITE	BIMA		
CLASS	4th-A	NO.	111

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			4	1996			79
1997					1992			47	1997			66
1998					1993			90	1998			38
1999					1994			122	1999			37
2000					1995			89	2000			19

7. COMMENTS

Suggestion	Maritime Telecommunication Services must be upgraded, for Mobile Ship or Maritime Safety, we request telephone Call facility. and completed by telecommunication equipment in accordance with GMDSS
Remarks	

INVENTORY

Site Name: Bima

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver	FT-300C	2820721DO	Yaesu	1982			Good
2		SSB Transceiver	FS-1000	5590-2501	Furuno	1989			Good
3		SSB Transceiver	IC-M700	5149	ICOM				Good
1-2		**VHF System**							
1		VHF Transceiver Ch.: 12, 14, 16, 20, 22	FM-400H	245372	Furuno	1989			Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		Antenna Tower	Square			1994			Good
2		Antenna Pole	Rec			1998			Good
2-2		**Antenna System**							
1		Long Wire Antenna				1994			Damaged
2		Ring Antenna	EM-2Staks			1989			Good
3		Whip Antenna				1989			Good
4		Dipole Antenna				1994			Good
3		**Power Supply Equipment**							
3-1		**Step-Up Transformer**							
1		Step-Up/Down			Stavol				Good
3-2		**UPS & AVR System**							
1		DC Power Supply 10A	CA-1010S		Carlton	1989			Good
2		DC Power Supply 30A	BL-1030A		Ball	1995			Good
3		DC Power Supply 40A	EP-1040A		Alinco				Good
4		Accu 12V/100AH	N100		GS				Damaged
5		Accu 12V/200AH	N200		GS				Damaged
6		Accu 12V/200AH	N200		MF				Good

INVENTORY

Site Name: Bima

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
7		Accu Charger				1989			Good
8		Accu Charger							Good
3-3		**Engine Generator**							
1		Engine 5-6 PK	TS-60		Yanmar	1982			Damaged
2		Engine 5-6 PK	TF-6,5H-di		Yanmar	1994			Good
3		Generator 3KVA	YKG-3	0629	Yanmar	1982			Damaged
4		Generator 3KVA			Yanmar	1994			Good
4		**Measuring Equipment**							
1		Multi Tester	SP-15D		Sanwa	1994			Good
5		**Others**							
1		Air Conditioner 2PK	Split	50100022	Sanyo	1994			Good

STATUS OF TROUBLES

SITE NAME : BIMA

BMA-111-(1/1)

Item / Equipment	- / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

For repairing, it must be sent to Benoa, therefore we request for one radio technician for Bima.

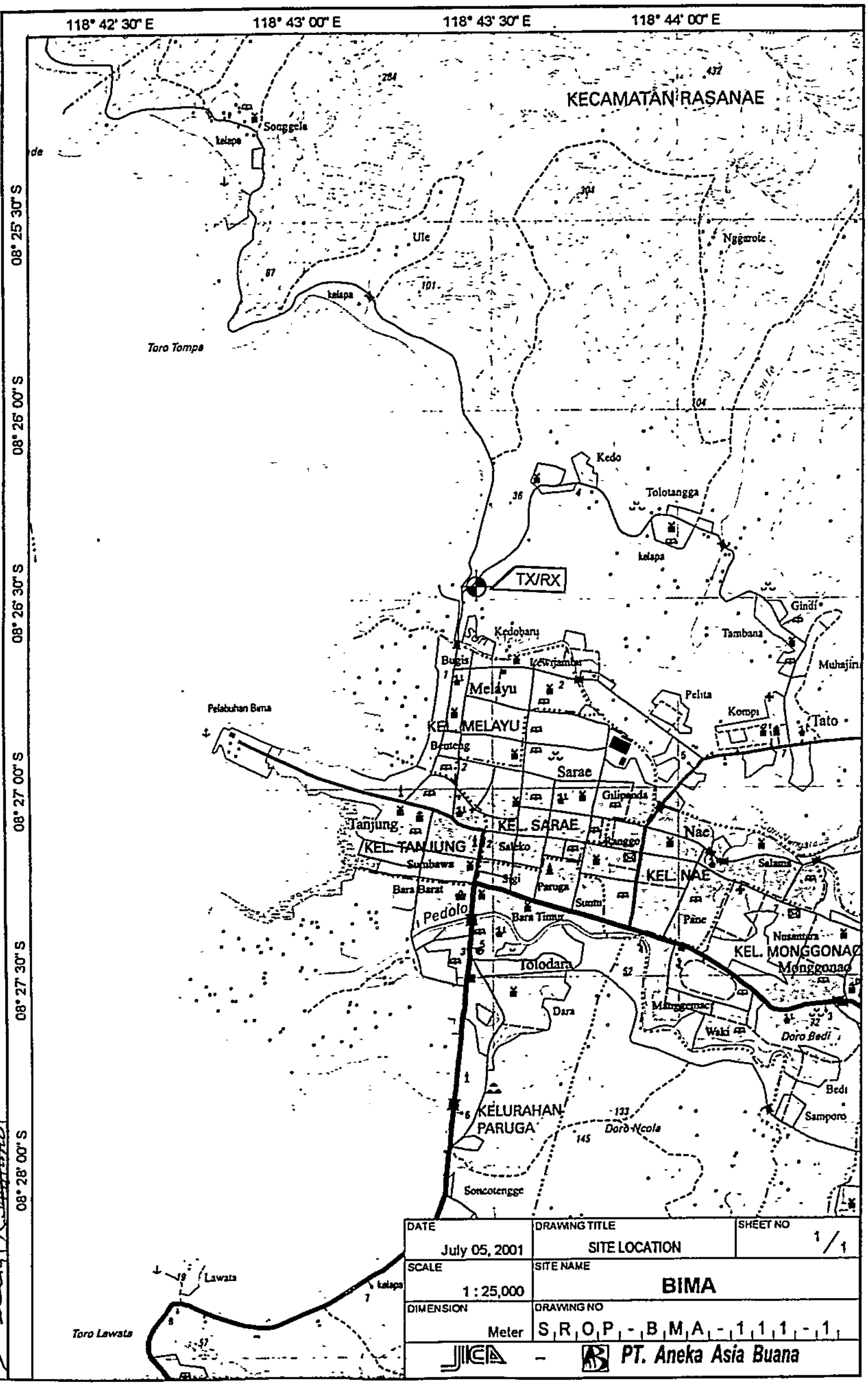
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Bima

BMA-111-(1/1)

Call Sign : Mobile Service : PKD.34
Fix Service : 8AD4

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2.182,0	J3E	100		
2	6.215,0	J3E	100		
	VHF Service				
3	Channel-16	G3E	40		
	Fix Service				
4	5 316,0	J3E	100		
5	8 110,0	A1A	150		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



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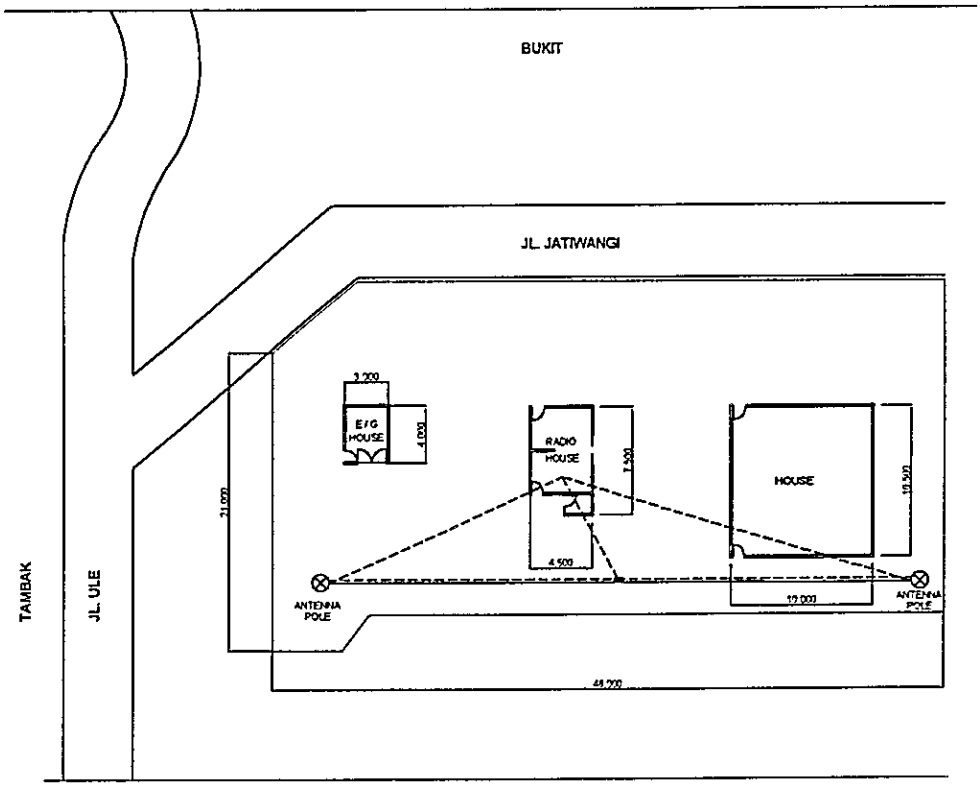
SCALE	SITE NAME	
1 : 25,000	BIMA	
DIMENSION	DRAWING NO	
Meter	S R O P - B M A - 1 1 1 - 1	

JICA - PT. Aneka Asia Buana



DRAWN BY AAB

APPROVED BY JICA

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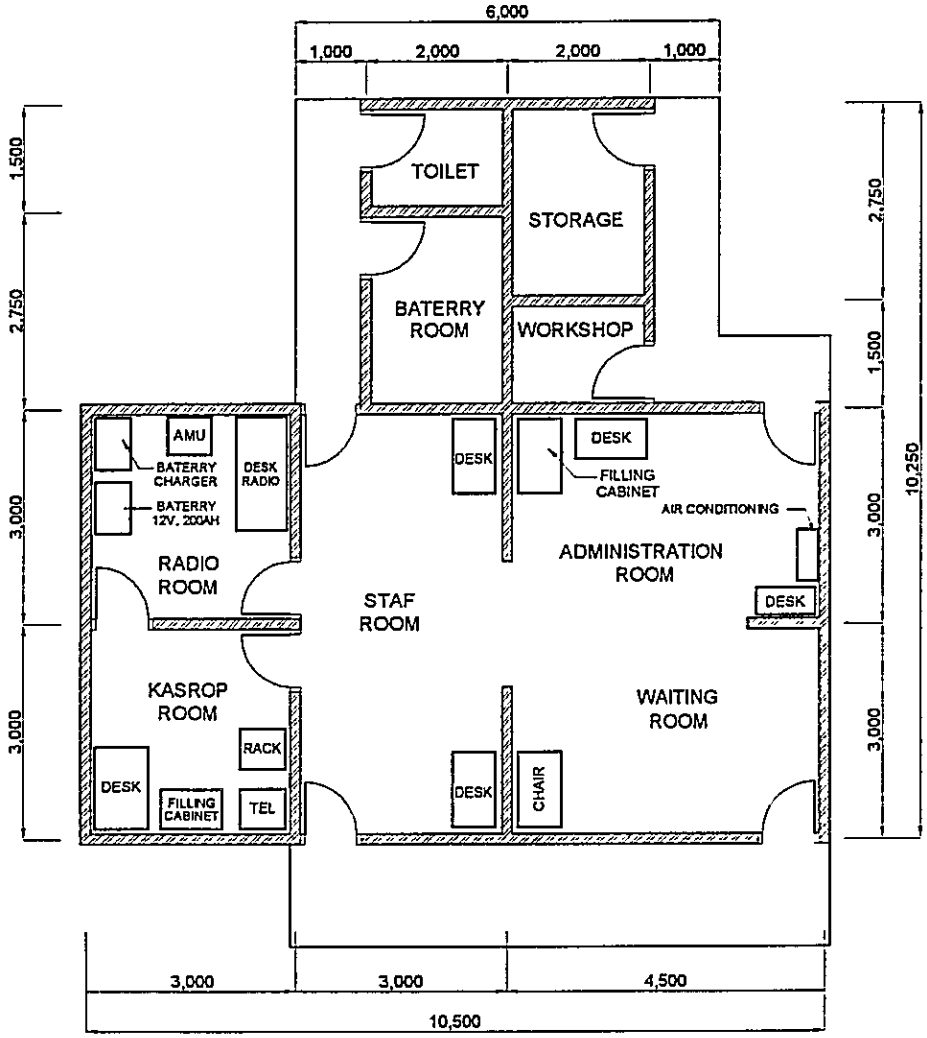
SCALE: 1 : 500	SITE NAME: BIMA	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,M,A,-,1,1,1,-,2,	
JICA -	PT. Aneka Asia Buana	



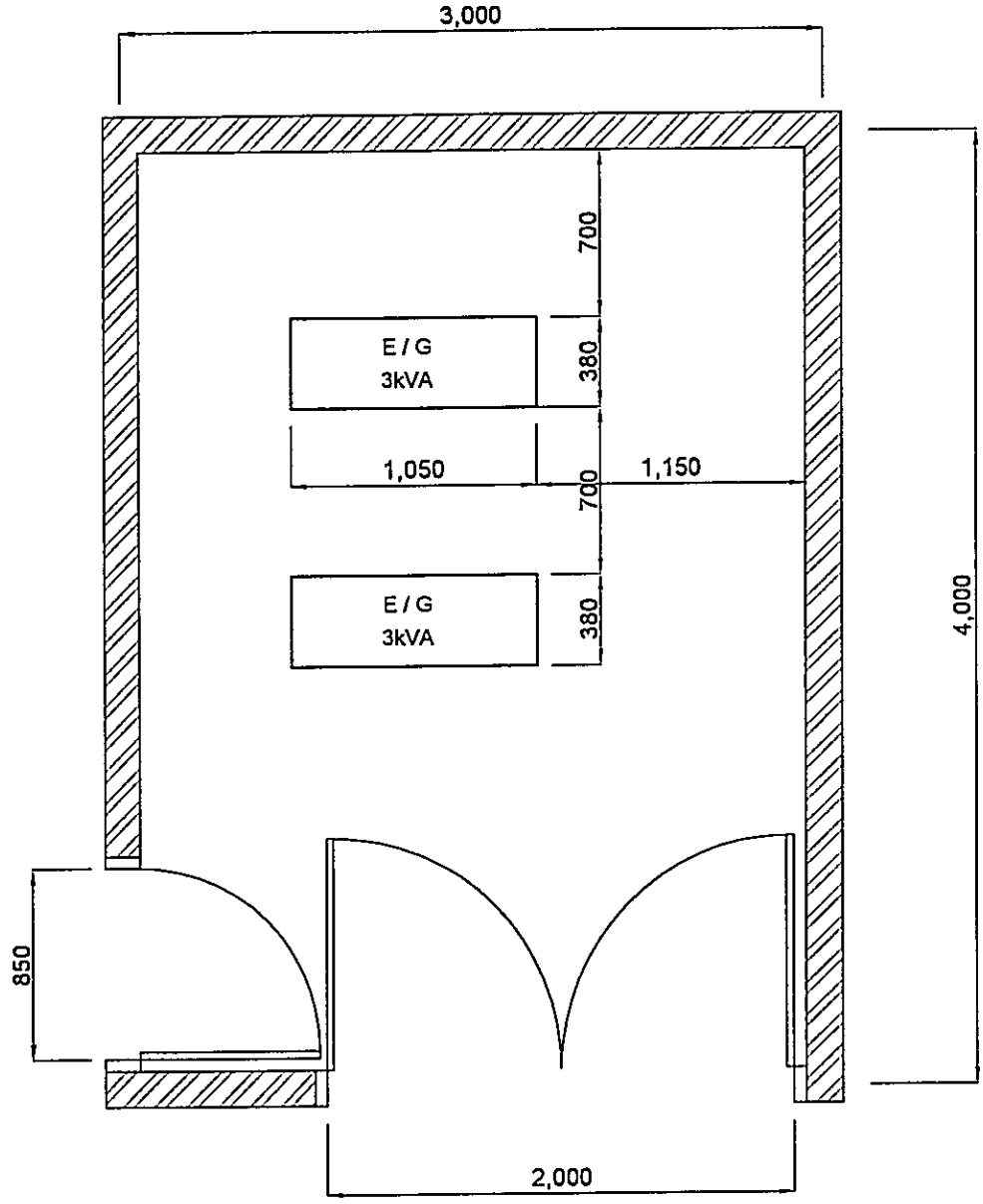
LEGEND

AVR	AUTOMATIC VOLTAGE REGULATOR
BPS	BATTERY POWER SUPPLY
E/G	ENGINE GENERATOR
HF	HIGH FREQUENCY
1ST	ISOLATION TRANSFORMER
kVA	KILO VOLT AMPERE
MF	MEDIUM FREQUENCY
PDB	POWER DISTRIBUTION BOARD
SUT	STEP - UP TRANSFORMER
TFS	TRANSFER SWITCH
TRX	TRANSCEIVER (ING)
TX	TRANSMITTER (ING)
UPS	UNINTERRUPTED POWER SUPPLY

APPROVED BY JICA

DRAWN BY AAB

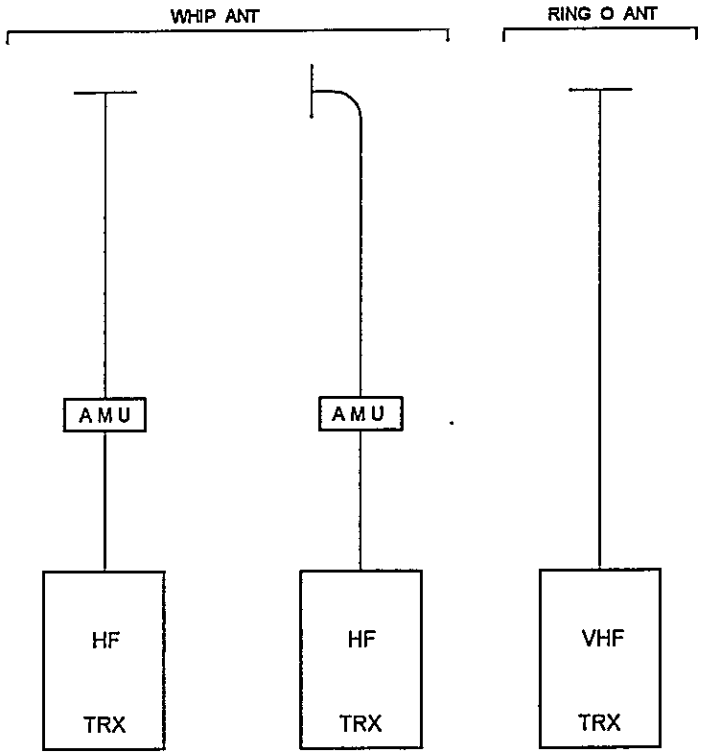
DATE: August 01, 2001	DRAWING TITLE: EQUIPMENT ROOM LAYOUT	SHEET NO: 1/1
SCALE: 1 : 100	SITE NAME: BIMA	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,M,A,-,1,1,1,-,3,	
JICA –	PT. Aneka Asia Buana	



DRAWN BY AAB

APPROVED BY JICA

DATE: July 01, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 . 30	SITE NAME: BIMA	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,M,A,-,1,1,1,-,4,	
JICA	PT. Aneka Asia Buana	



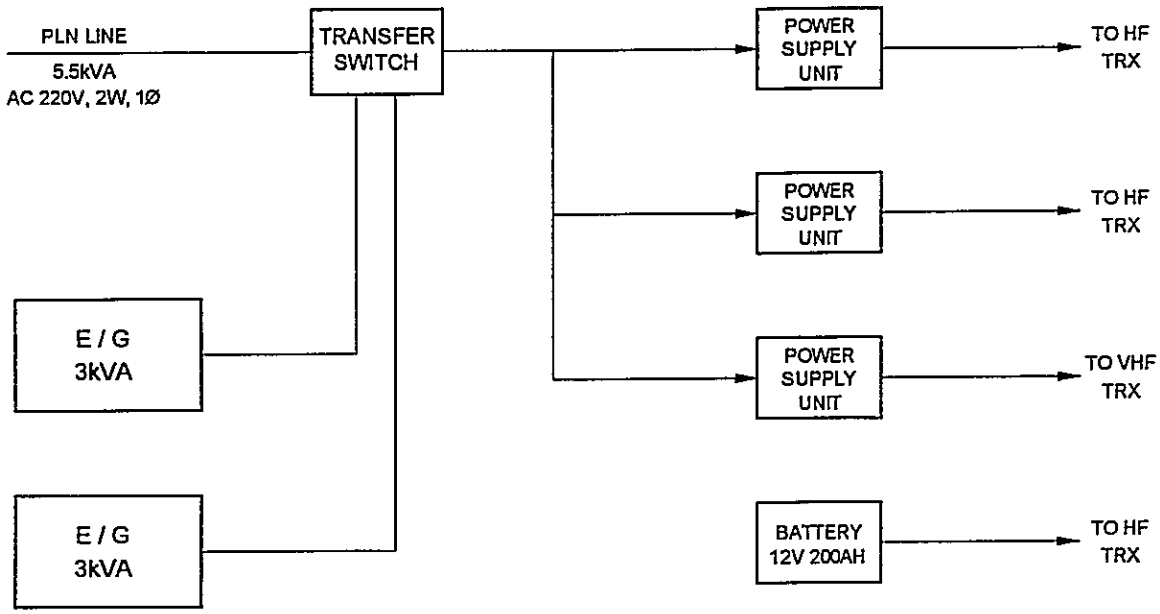
LEGEND

ANT - ANTENNA
AMU - ANTENNA MACHER UNIT
HF HIGH FREQUENCY
TRX TRANSCEIVER (ING)
VHF VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: July 01, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BIMA	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,B,M,A,-,1,1,1,-,5,	
JICA – PT. Aneka Asia Buana		



LEGEND

AC	ALTERNATING CURRENT
E/G	ENGINE GENERATOR
HF	HIGH FREQUENCY
kVA	KILO VOLT AMPERE
TFS	TRANSFER SWITCH
TRX	TRANSCEIVER (ING)
V	VOLT
VHF	VERY HIGH FREQUENCY
W	WIRE
Ø	PHASE

DRAWN BY AAB

APPROVED BY JICA

DATE: Sept 11, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: BIMA	
DIMENSION: Milimeter	DRAWING NO: SRO P - BMA - 1 1 1 - 6	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station

Badas

(Coast Station No. 112)

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	BADAS		
CLASS	4th-A	NO.	112

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Badas, Sumbawa			117° 22′ 08″ E	08° 27′ 54″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Denpasar	[Taking time 1·50 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Air	to Sumbawa	[Taking time: 2·15 hr.]	☑ Paved	☐ Medium	☐ Motel	
By Car	to Location	[Taking time: 1.00 hr.]	☐ Unpaved road	☑ Light		
				☐ 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	
				Yes	No
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☑	☐ Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐	☑ Towers (Masts)
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐	☐ Grounding system
☐ Basin	☐ Clay	☑ Stony	☐ Ground Subsidence	☑	☐ Lightning system
☐ Valley	☐ Sandy			☐	☑ Feeder Cable Way
Altitude	20.00 M		Telephone Lines	☐	☑ City water
Land area	4,252 m²		☐ Lines		

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Plasterboard
Type of wall	Brick
Wall finish	Mortar
Flooring	Mortar
Room Area (m²)	
Operation room	24 00
E / G room	21.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	3.5	3

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	3 Times	
Total interpt. hours /month	18 Hours	
Max. interpt. hours at once	48 Hours	

Existing Power Conditions		
Good	Bad	
☑	☐	Power Supply System
☑	☐	Operations of E/G
☐	☐	Operations of AVR

Capacity of fuel for engine	
Day tank	10 Liter
Main tank	k Liter

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repairing in Disnav Benoa
Examples of major failure	Transmitter Equipment can not transmit
Sufficiency of spares	Not available

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☐ Lightning		☑	☐	Air pollution
☑ Other calamity	Ant.Tower broken			

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☑ Not enough
3 Measuring eqpt /tools	☐ Enough	☐ Reasonable	☑ Not enough
4 Number of Operator	☑ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6 Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☑ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	3 ()	()
Technician (skilled)	()	()
Administrator		
T o t a l	4	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	BADAS		
CLASS	4th-A	NO.	112

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: Badas

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		Transceiver	M-700	4358	ICOM	1991			Good
2		Transceiver	M-700	49813	ICOM	1996			Good
3		Transceiver	FT-300C		Yaesu	1982			Damaged
1-2		**VHF System**							
1		VHF Transceiver	FM-400	247667	Furuno	1989			Damaged
3		**Power Supply Equipment**							
3-1		**Engine Generator**							
1		Generator	TF-75H	75404357	Yanmar	1995			Good

STATUS OF TROUBLES

SITE NAME : BADAS **BDS-112-(1/1)**

Item / Equipment	VHF Transceiver / -		
Manufacturer	Furuno		
Manufacturer in year	1989		
Defective panel / unit	TX/RX		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☑ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Badas Coast Station is not manage the budgetary, we herewith request for Benoa Coast Station to have attention to the other area-stations, especially for Badas

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Badas

BDS-112-(1/1)

Call Sign : Mobile Service : PKD 67
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	A3J	100		
2	6 215,0	A3J	100		
	VHF Service				
3	156 800,0	G3E	50		
	Fix Service				
4	5 316,0	J3E	100		
5	5 165,0	J3E	100		
6	6 926,0	J3E	100		
7	9 950,0	J3E	100		
8					
9					
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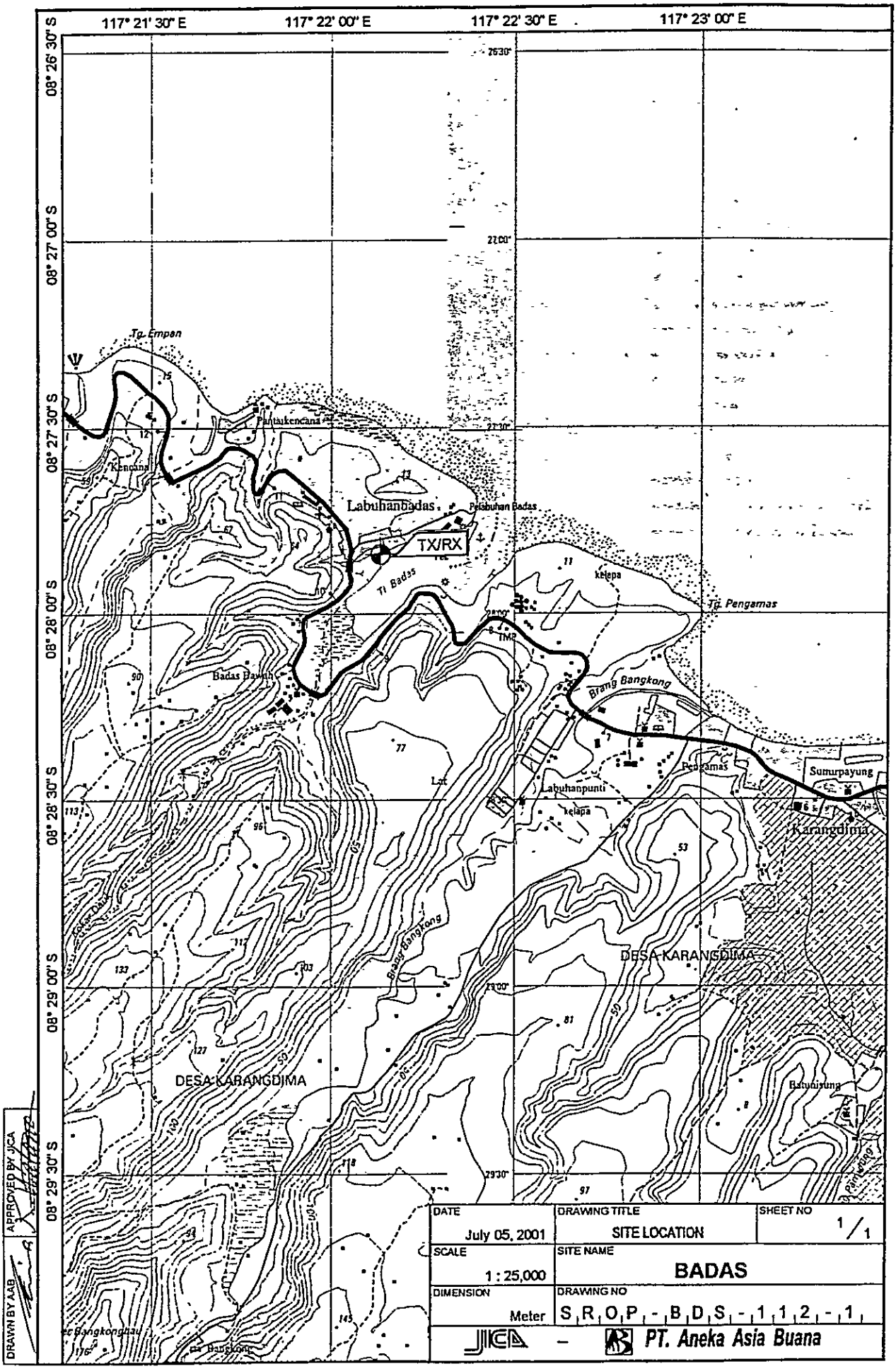
23					



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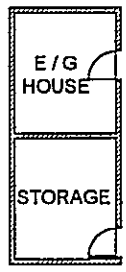
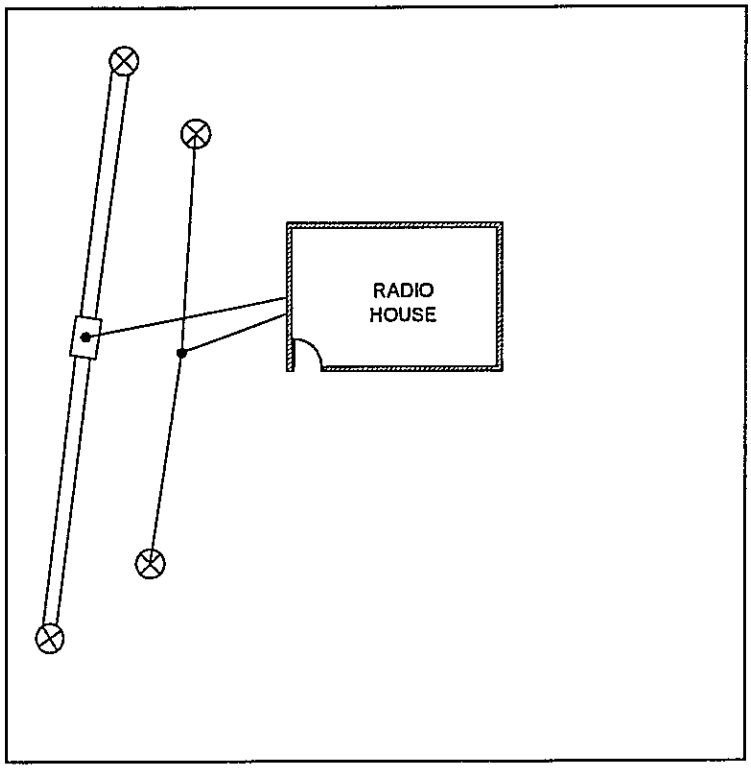
DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 25,000	SITE NAME: BADAS	
DIMENSION: Meter	DRAWING NO: S R O P - B D S - 1 1 2 - 1	
JICA –	PT. Aneka Asia Buana	



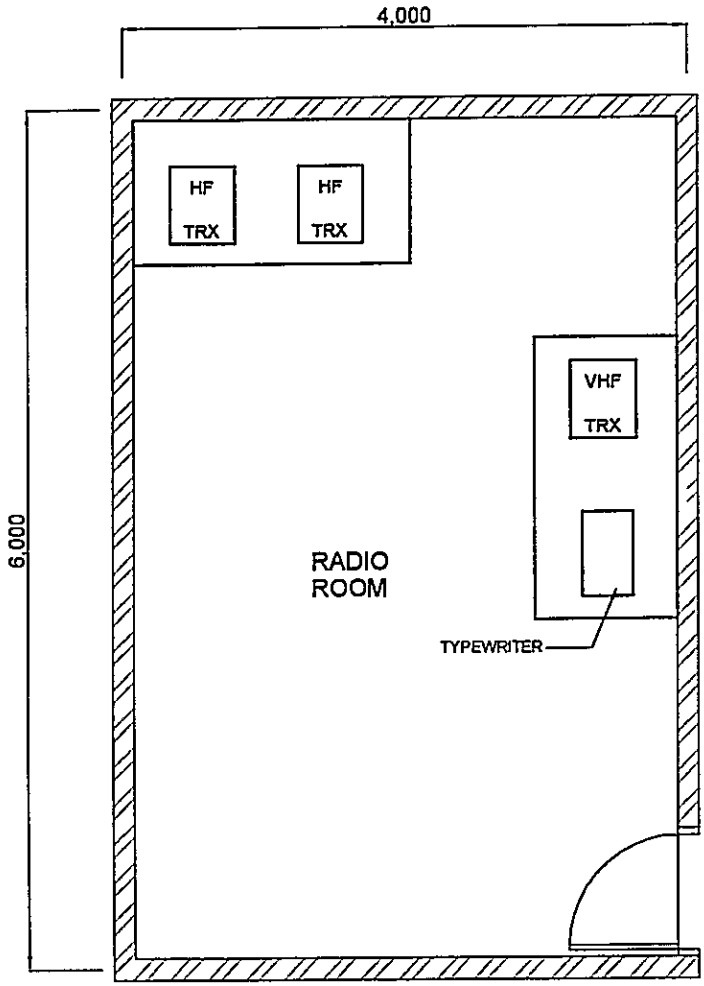


JL. KE ALAS

DRAWN BY AAB

APPROVED BY JICA

DATE: July 01, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1 / 1
SCALE: 1 : 200	SITE NAME: **BADAS**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,D,S,-,1,1,2,-,2,	
JICA --	PT. Aneka Asia Buana	



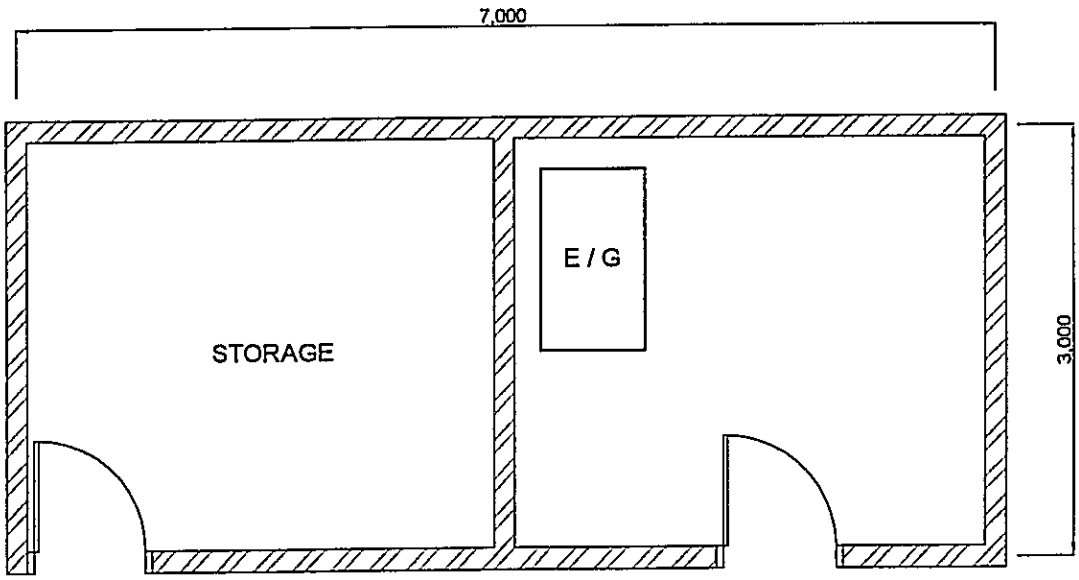
LEGEND

HF	HIGH FREQUENCY
TRX	TRANSCEIVER (ING)
VHF	VERY HIGH FREQUENCY

DATE: July 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: BADAS	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,B,D,S,-,1,1,2,-,3,	
JICA - AB PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA



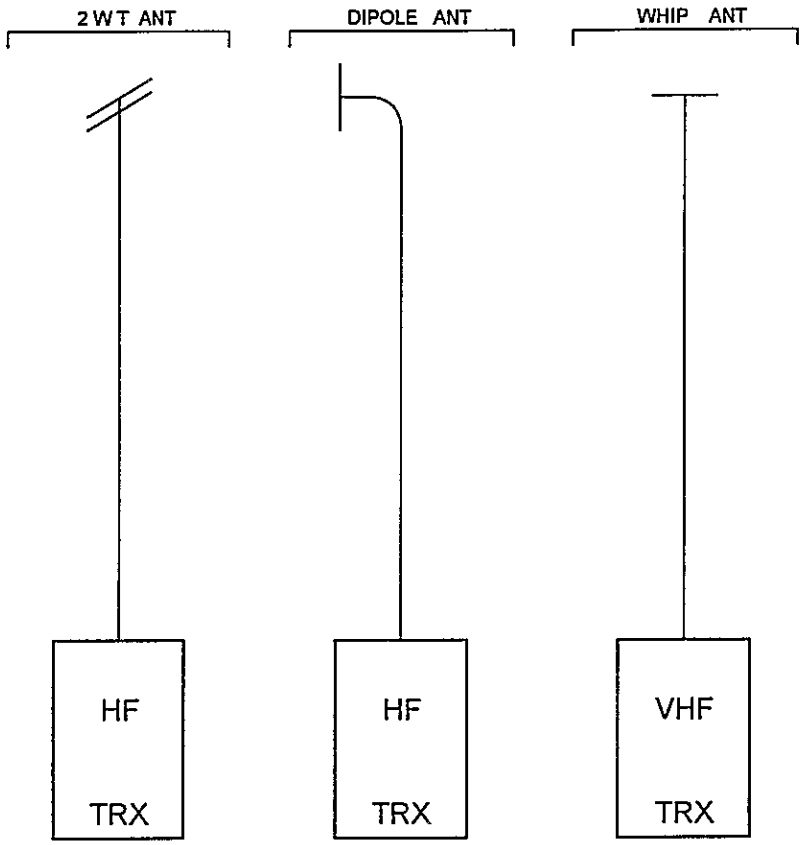
LEGEND

E/G : ENGINE GENERATOR

DATE: July 01, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: BADAS	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,D,S,-,1,1,2,-,4,	
JICA – AB PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



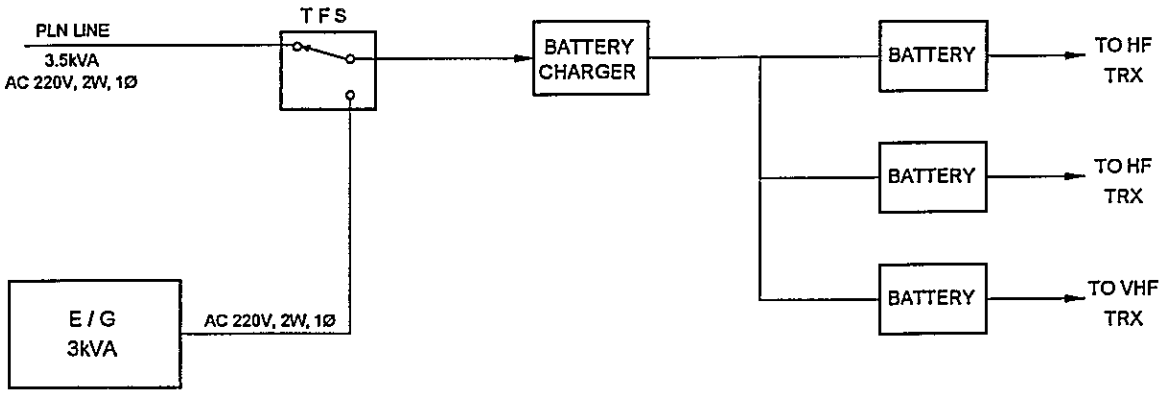
LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY
WT : WIRE T TYPE

DATE: July 27, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: BADAS	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,B,D,S,-,1,1,2,-,5,	
JICA -- PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



LEGEND

AC	: ALTERNATING CURRENT
E/G	: ENGINE GENERATOR
HF	: HIGH FREQUENCY
kVA	: KILO VOLT AMPERE
TFS	: TRANSFER SWITCH
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 10, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BADAS	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,B,D,S,-,1,1,2,-,6,	
JICA –	PT. Aneka Asia Buana	

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

4th-A Class Coast Station

Gilimanuk

(Coast Station No. 113)

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	GILIMANUK		
CLASS	4th-A	NO.	113

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pogot-IV Ling Samiana-Gilimanuk	0365-61374		114° 26′ 05″ E	08° 10′ 41″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Denpasar [Taking time 1.30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	20,000
By Car to Location [Taking time 2.00 hr.]	☑ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☑ Light		
		☐ 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
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑ ☐ Towers (Masts)
☐ Basin	☐ Clay		☑ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☑ Sandy			☑ ☐ Lightning system
Altitude	2.00 M		**Telephone Lines**	☐ ☑ Feeder Cable Way
Land area	750.00 m²		☑ 1 Lines	☑ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile
Room Area (m²)	
Operation room	60.00
E / G room	20 00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	1	
Wire	2	
kVA	3.5	

Quality of PLN source		
Fluctuations	220 V ± 10 %	
Availability of power per day	24 Hours	
Power interruption /month	10 Times	
Total interpt. hours /month	20 Hours	
Max. interpt. hours at once	2 Hours	

Existing Power Conditions	Good	Bad
Power Supply System	☐	☐
Operations of E/G	☐	☐
Operations of AVR	☐	☐

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself
Examples of major failure	Receiver and Transmitter, weak
Sufficiency of spares	Not enough

Records of damages	Environmental Conditions	Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☐ Lightning		☑	☐	Air pollution
☐ Other calamity				

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☑ Not enough
3 Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4 Number of Operator	☑ Enough	☐ Reasonable	☐ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6 Capability of Operator	☑ Skilled	☐ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☑ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	2 (2)	()
Technician (skilled)	()	()
Administrator		
T o t a l	3	

Training Record				
Course	Class	Location	Period	Trainee
Prc	II	YGT	1998	1
Oru	Oru	YGT	1997	1
Oru	Oru	SBY	1997	1
Oru	Oru	SBY	1998	1

SUMMARY OF COAST STATION

SITE	GILIMANUK		
CLASS	4th-A	NO.	113

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	50	250	
2000					1995				2000	30	150	

7. COMMENTS

Suggestion	Not all of ships use the function of Coast Station, usualy direct connect to each agent. Not all ships know the frequency and hours of Coast Station, actually frequency and hour is very important for emergency (distress) connection.
Remarks	

INVENTORY

Site Name: Gilimanuk

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver	FS 1000	SN-5590-2528	Furuno	1986			
2		SSB Transceiver	IC-700	9837	ICOM	1996			
1-2		**VHF System**							
1		VHF Transceiver	FN 400	H-247632	Furuno	1983			
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply		RE-2000	Video	1986			
2		Power Supply		CA-1010S	Carlton	1989			
3		Power Supply		RS-40XII	Daiwa	1996			
4		Accumulator 12V-200AH			Yuasa	1996			
5		Accumulator 12V-200AH			GS	1998			
6		Battery Charger			Delta	1998			

STATUS OF TROUBLES

SITE NAME : GILIMANUK **GMK-113-(1/1)**

Item / Equipment	VHF Antenna Tower / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	Without Antenna Tower/Corrosion		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☐ Lightning		☐ By next year budget
	☑ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

We hope routine maintenance for Coast Stations, because the maintenance for along this time not routine implemented.

We request for Antenna VHF tower, because Antenna tower is still using the wooden

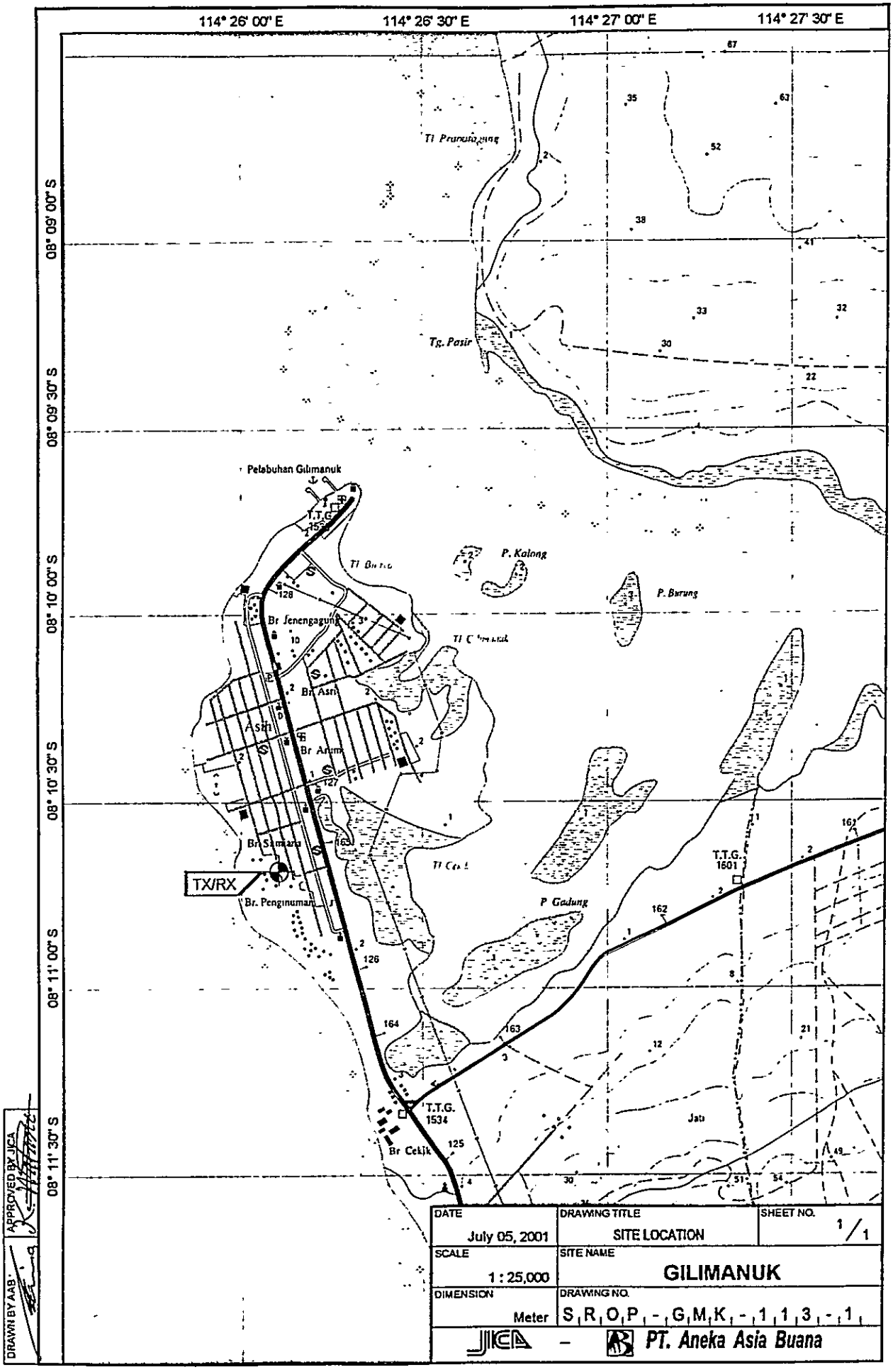
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Gilimanuk

GMK-113-(1/1)

Call Sign : Mobile Service : PKD.70
Fix Service : 8AC32

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	300		
2	6 215,0	J3E	600		
	VHF Service				
3	156 800,0	G3E	50		
	Fix Service				
4	5 316,0	J3E	50		
5	6 926,0	J3E	50		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



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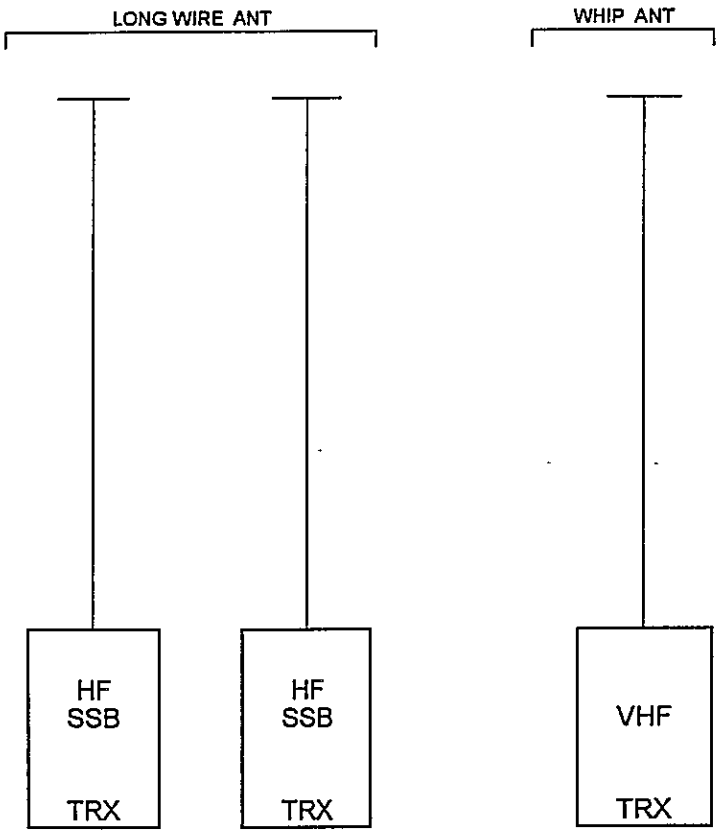
SCALE: 1 : 25,000	SITE NAME: GILIMANUK	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,G,M,K,-,1,1,3,-,1	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



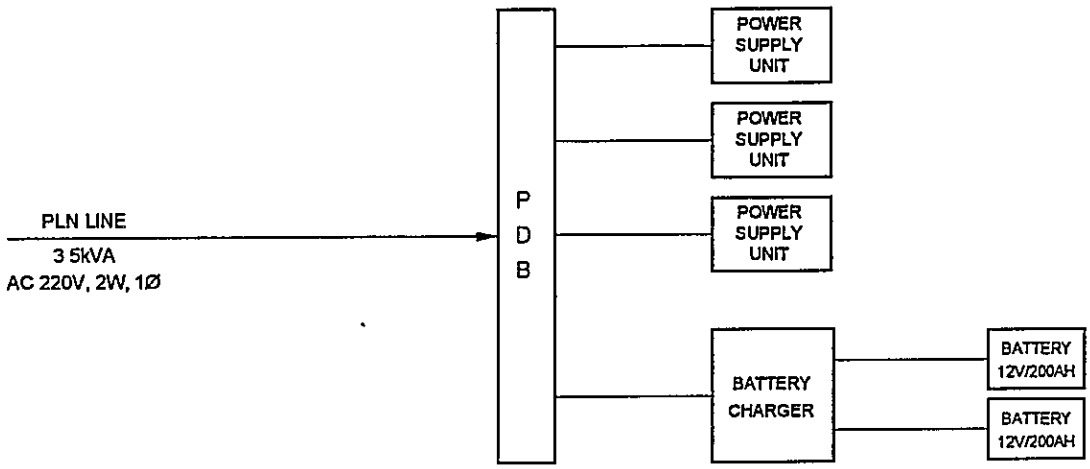
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 30, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: **GILIMANUK**	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,G,M,K,-,1,1,3,-,5,	
JICA – PT. Aneka Asia Buana		



LEGEND

AC	: ALTERNATING CURRENT
kVA	: KILO VOLT AMPERE
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 30, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: GILIMANUK	
DIMENSION: Milimeter	DRAWING NO.: SROP-GMK-113-6	
JICA -	PT. Aneka Asia Buana	

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

4th-A Class Coast Station
Labuhan Lombok
(Coast Station No. 114)

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	LABUHAN LOMBOK		
CLASS	4th-A	NO.	114

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Kayangan Labuhan Lombok			116° 39′ 27″ E	08° 34′ 09″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Mataram [Taking time: 2.00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	20,000
By Car to Location [Taking time: 1.5 hr.]	☑ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☑ Light		
		☐ 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		
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes	No	
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑	☐	Antenna
☑ Hill-top	☐ Swampy	☑ Rocky	☐ Rain Leakage	☐	☑	Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐	☑	Grounding system
☐ Valley	☐ Sandy			☐	☑	Lightning system
Altitude	9.00 M		Telephone Lines	☐	☑	Feeder Cable Way
Land area	1,250 m²		☐ Lines	☐	☑	City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Roof Tile
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Mortar
Room Area (m²)	
Operation room	24.00
E / G room	
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	1	
Wire	2	
kVA	1.2	

Quality of PLN source		
Fluctuations	220 V ± 10 %	
Availability of power per day	24 Hours	
Power interruption /month	12 Times	
Total interpt. hours /month	24 Hours	
Max. interpt. hours at once	2 Hours	

Existing Power Conditions		
Good	Bad	
☐	☐	Power Supply System
☐	☐	Operations of E/G
☐	☐	Operations of AVR

Capacity of fuel for engine	
Day tank	Liter
Main tank	k Liter

E/G Stand-by System	
☐	Single System
☐	Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by Technician District Navigation Benoa
Examples of major failure	Component VHF burned
Sufficiency of spares	Not enough

Records of damages	Environmental Conditions		
	Good	Bad	
☐ Heavy rainfall			
☐ Storm	☑	☐	External noises
☐ Lightning	☑	☐	Air pollution
☐ Other calamity			

Institutional and Human Statuses			
1 Budget	☐ Sufficient	☐ Reasonable	☑ Insufficient
2 Spares	☐ Enough	☐ Reasonable	☑ Not enough
3 Measuring eqpt./tools	☐ Enough	☐ Reasonable	☑ Not enough
4 Number of Operator	☐ Enough	☐ Reasonable	☑ Not enough
5 Number of Technician	☐ Enough	☐ Reasonable	☑ Not enough
6 Capability of Operator	☐ Skilled	☑ Not so bad	☐ Not capable
7 Capability of Technician	☐ Skilled	☐ Not so bad	☐ Not capable

5. PERSONNEL FORMATIONS

	TX/RX	
Chief	1	
Operator (skilled)	2 (1)	()
Technician (skilled)	()	()
Administrator		
T o t a l	3	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	LABUHAN LOMBOK		
CLASS	4th-A	NO.	114

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		3			1995				2000			

7. COMMENTS

Suggestion	
Remarks	

INVENTORY

Site Name: Labuhan Lombok

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition

Data not Available doe to no Response from Coast Station

STATUS OF TROUBLES

SITE NAME : LABUHAN LOMBOK **LBL-114-(1/1)**

Item / Equipment	Office Building & Radio SSB / -		
Manufacturer	Icom		
Manufacturer in year	1994		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☐ Immediacy
	☐ Lightning		☐ By next year budget
	☐ Corrosion		☑ By next project
	☐ Lack of Spares		☐ Unnecessary
	☑ Others		

General Comment for Maintenance:

- Lombok Coast Station building utilized Lombok Port Administration office
- Since the Radio SSB stolen, Lombok Coast Station can not active communications between land station or navigation mobile station/ship that work on band HF.
- Referring to the geographical location of Labuhan Lombok Coast Station, recently the navigation traffic frequency is very busy (Local Ship, Domestic and Foreign), it is necessary to have own building completed with definitive radio unit, therefore safety navigation can be upgraded.
- Referring to the point 3, East Lombok Regional-II Government has been prepare the land location for Lombok with the area : 1,250 M2.

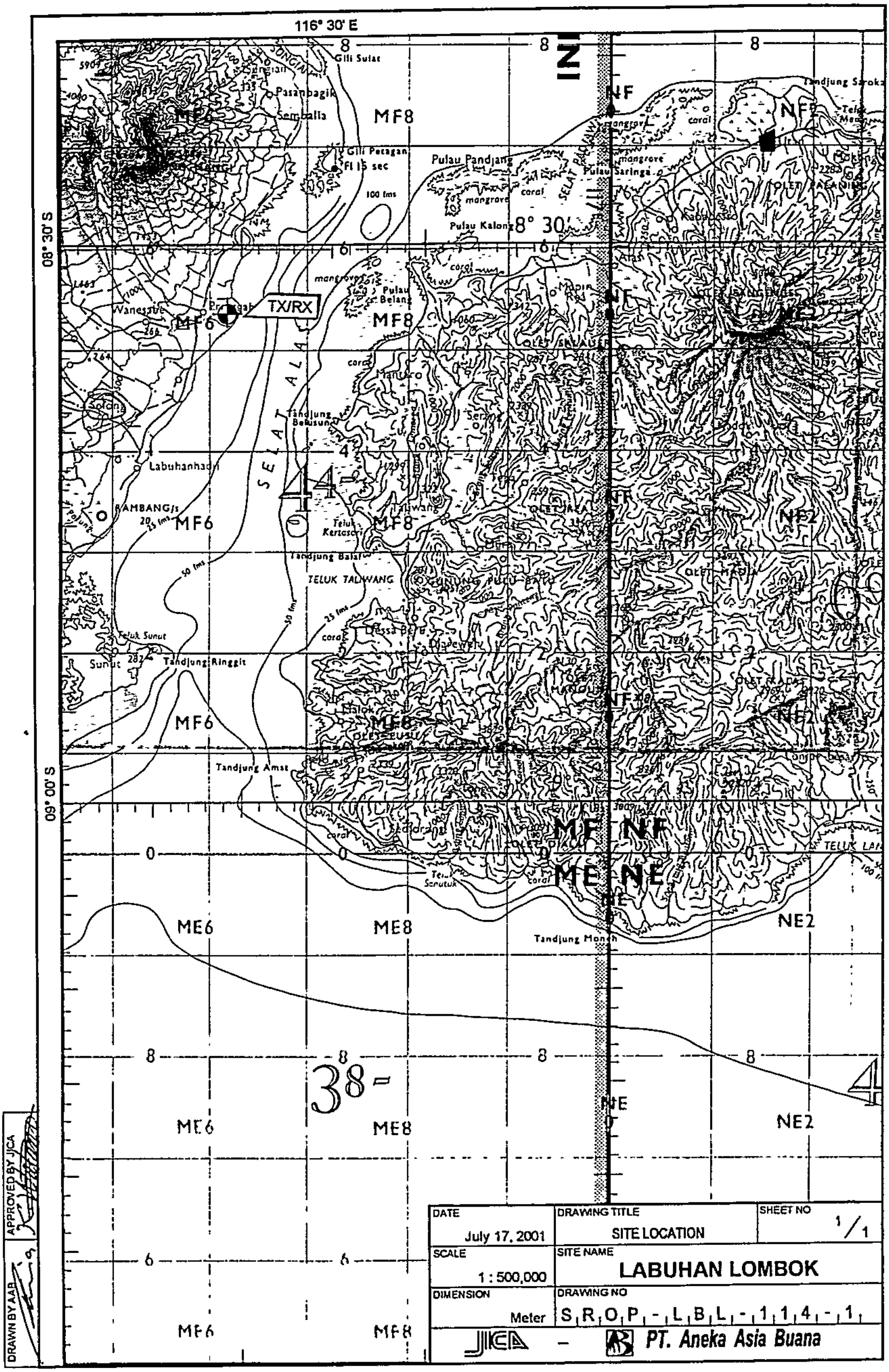
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Labuhan Lombok

LBL-114-(1/1)

Call Sign : Mobile Service : PKD.95
Fix Service : 8AD35

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	6 215,0	J3E	100		
3	156.800,0	J3E	100		
4	5 316,0	J3E	100		
5	156 800,0	J3E	100		
6	5 316,0	J3E	100		
	VHF Service				
7	Channel-16	G3E	25		
	Fix Service				
8	5 316,0	J3E	100		
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



DATE	DRAWING TITLE	SHEET NO
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SCALE	SITE NAME	
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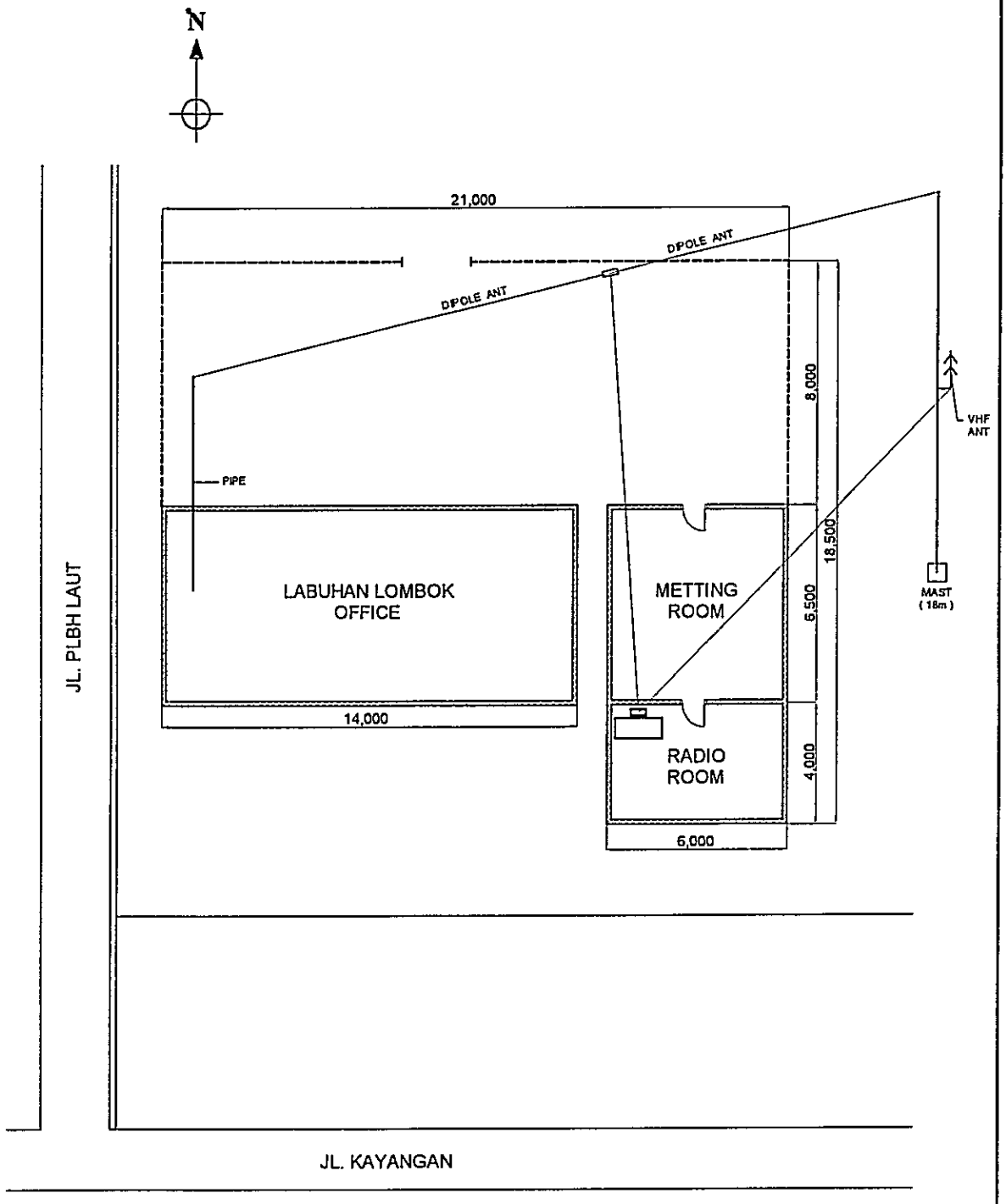
DIMENSION	DRAWING NO	
Meter	S R O P - L B L - 1 1 4 - 1	

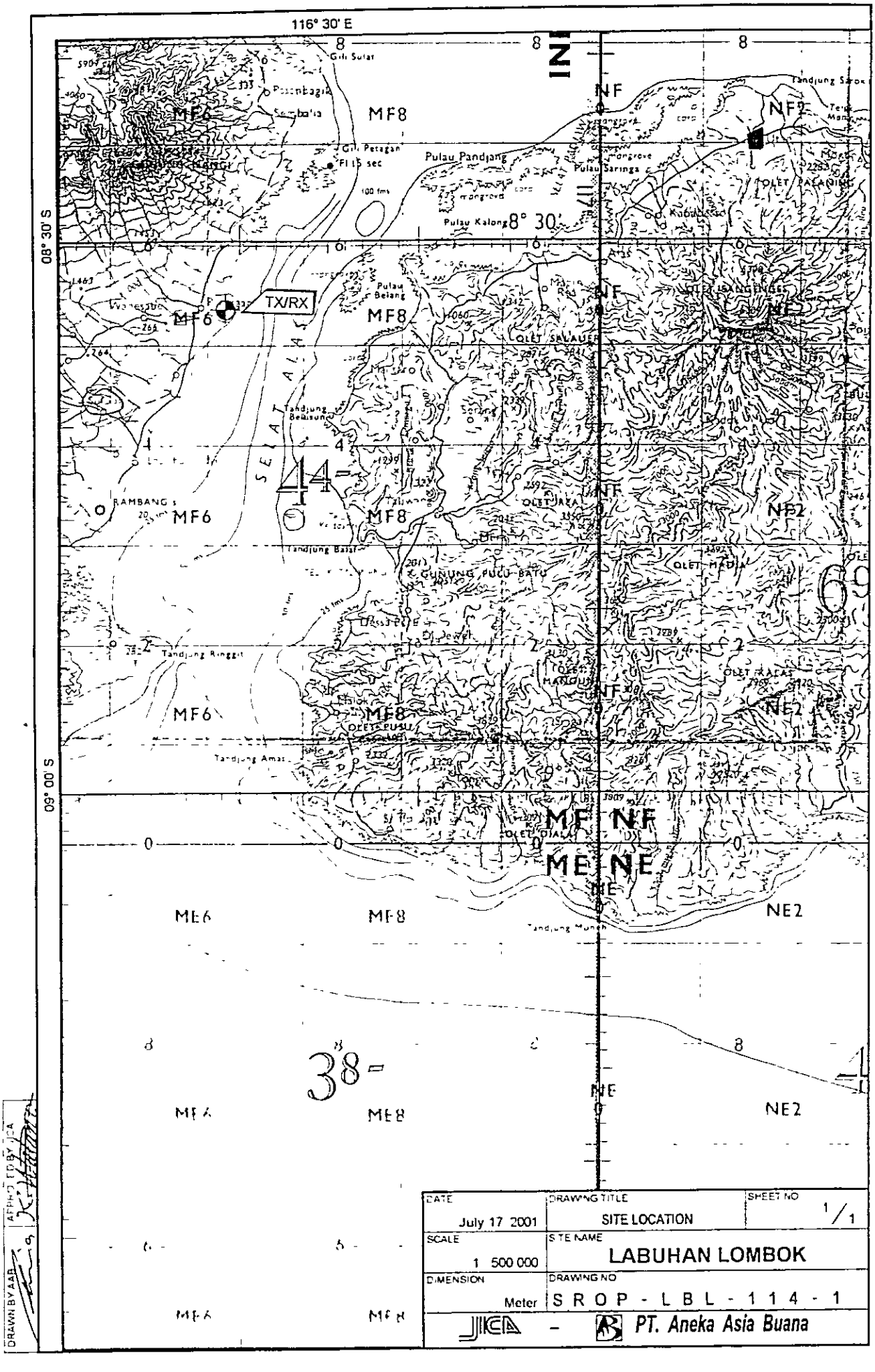
JICA - PT. Aneka Asia Buana



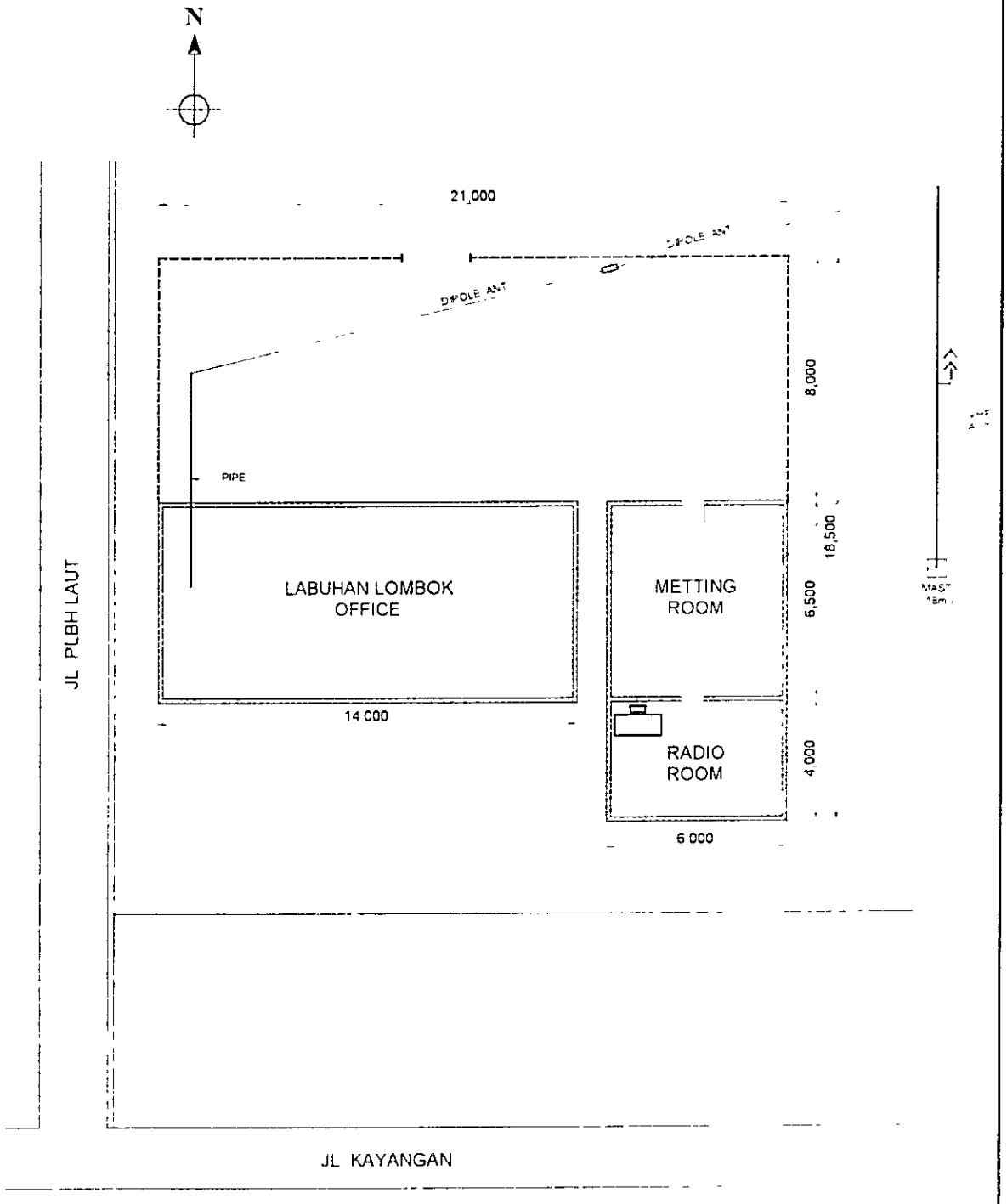
APPROVED BY JICA

DRAWN BY AAB

DATE: August 06, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: LABUHAN LOMBOK	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,L,B,L,-,1,1,4,-,2,	
JICA – PT. Aneka Asia Buana		



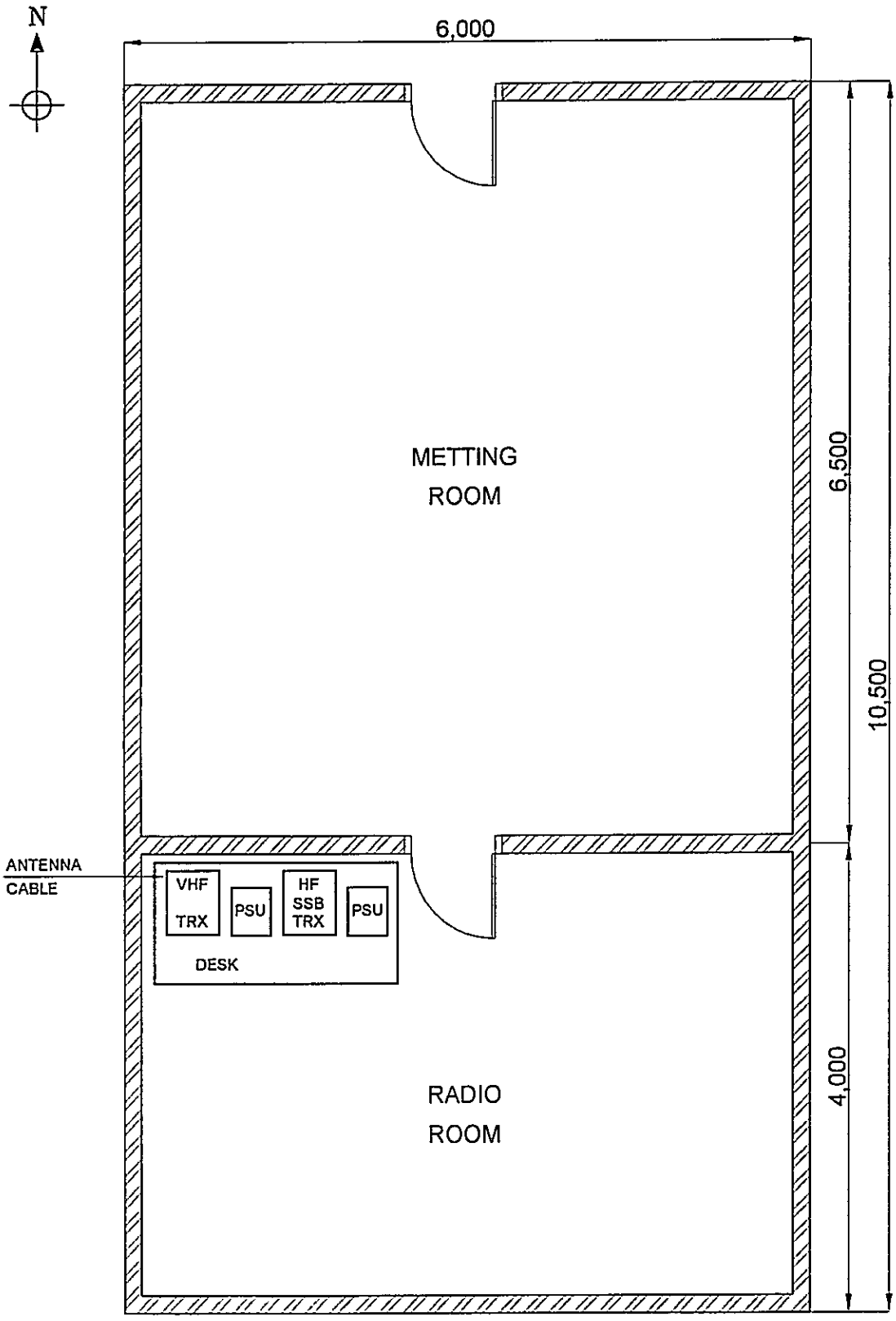
DATE: July 17 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 500 000	STE NAME: LABUHAN LOMBOK	
DIMENSION: Meter	DRAWING NO: S R O P - L B L - 1 1 4 - 1	
JICA –	PT. Aneka Asia Buana	



DATE: August 06 2001	DRAWING TITLE: ANTENNA LAYOUT	1/1
SCALE: 1 200	SITE NAME: LABUHAN LOMBOK	
DIMENSION: Milimeter	DRAWING NO: S R O P - L B L - 1 1 4 - 2	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



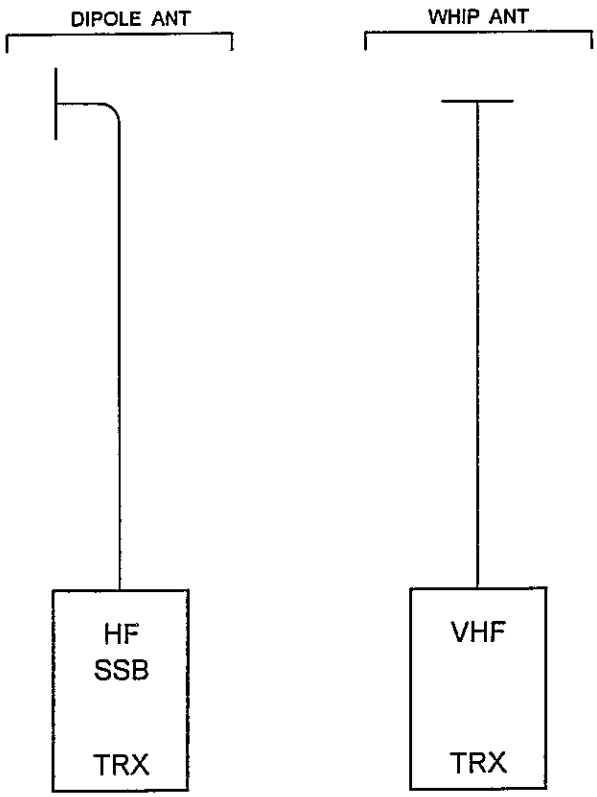
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: August 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: LABUHAN LOMBOK	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,L,B,L,-,1,1,4,-,3,	
JICA –	PT. Aneka Asia Buana	



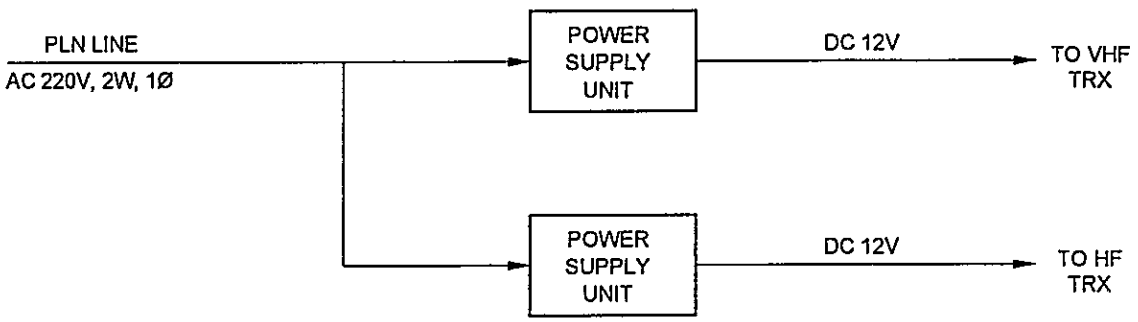
LEGEND

ANT : ANTENNA
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 11, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: LABUHAN LOMBOK	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,L,B,L,-,1,1,4,-,5,	
JICA –	PT. Aneka Asia Buana	



LEGEND

AC	ALTERNATING CURRENT
HF	HIGH FREQUENCY
TFS	TRANSFER SWITCH
TRX	TRANSCEIVER (ING)
V	VOLT
VHF	VERY HIGH FREQUENCY
W	WIRE
Ø	PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 11, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: LABUHAN LOMBOK	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,L,B,L,-,1,1,4,-,6,	
JICA – PT. Aneka Asia Buana		