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

ADPEL/KPLP Office (Disnav Area - 11)
Surabaya

Table of Content

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

Note :
- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF ADPEL / KPLP

SITE	SURABAYA		
CLASS		NO.	XI

1. LOCATION

Address	Tel.	Fax	Longitude	Latitude
			° ' "	° ' "

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Juanda [Taking time: 1.00 hr.]	☑ Highway	☐ Heavy	☑ Hotel	
By Car to Location [Taking time. 0.30 hr]	☐ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF ADPEL/KPLP 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	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	
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

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

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF ADPEL / KPLP

SITE	SURABAYA		
CLASS		NO.	XI

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			

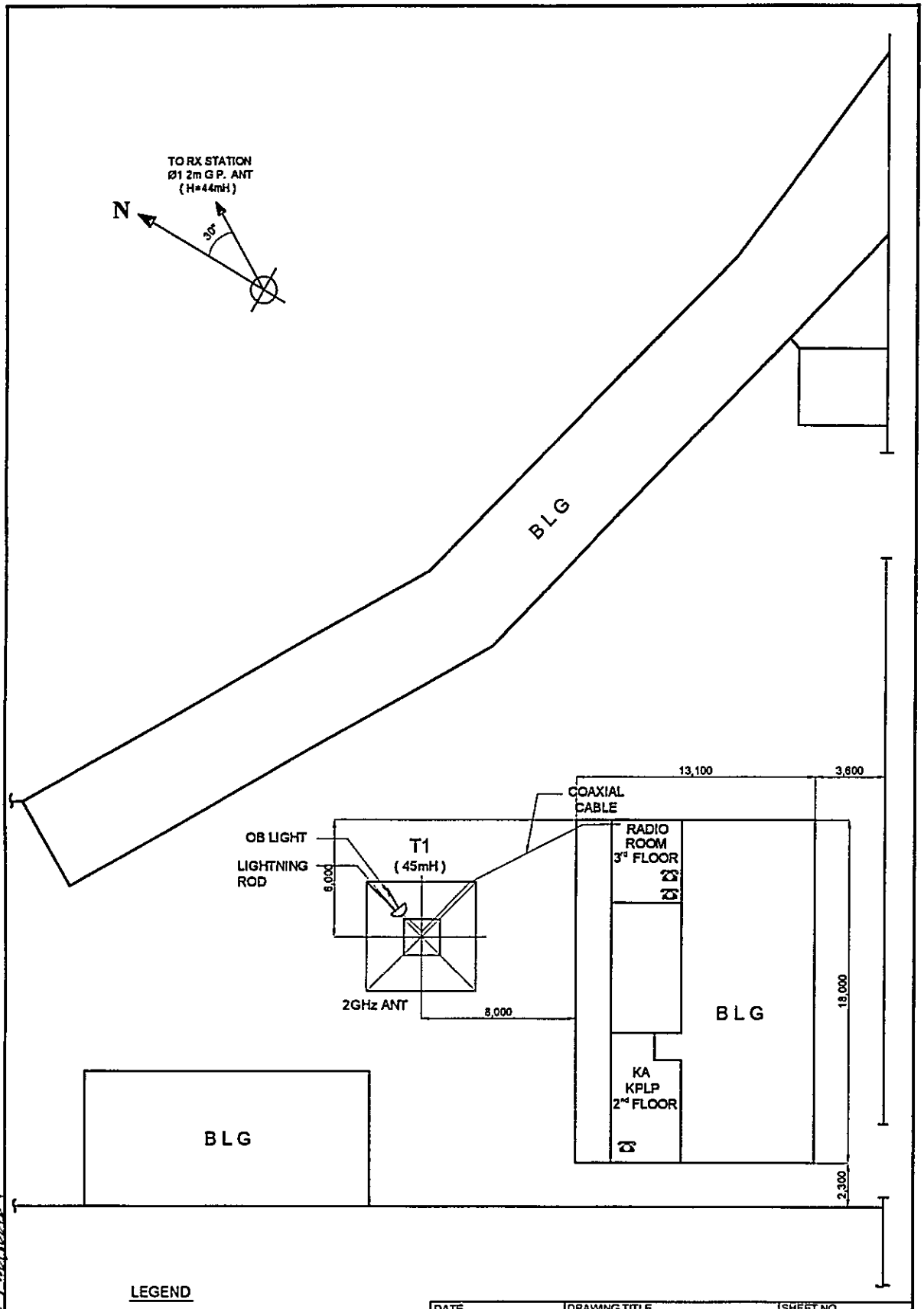
7. COMMENTS

Suggestion	
Remarks	Radio equipment stored at RX Station

INVENTORY

Site Name: Adpel Surabaya

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1 .		**Radio Equipment**							
1-1		**Operator Console/Desk/Rack**							
1-1-1		**Console-III-II**							
		- Marine VHF Telecontroller			JRC	1989	SAR Project		
		- Analog Clock	J-70-P-b		JRC	1989	SAR Project		
		- Digital Clock	NKH-100		JRC	1989	SAR Project		
		- Remote Control Unit (For MTRX)	JCC-300RR8		JRC	1989	SAR Project		
		- Dialing Unit			JRC	1989	SAR Project		
		- Headset (For MTRX)			JRC	1989	SAR Project		
		- Ancillaries			JRC	1989	SAR Project		
		- Console			JRC	1989	SAR Project		
		- Telephone Device (x2)			JRC	1989	SAR Project		
		- Telex			JRC	1989	SAR Project		
		- Telephony			JRC	1989	SAR Project		
1-1-2		**Power Supply Equipment**							
		Isolation Transformer 0.5kVA			JRC	1989	SAR Project		
		Battery 6V, 45AH, 8cells			JRC	1989	SAR Project		
		AC Power Unit			JRC	1989	SAR Project		
		DC Power Unit			JRC	1989	SAR Project		
1-2		**Remote Control Equipment**							
1-2-1		**DRCS-I**			JRC	1989	SAR Project		
		LOX			JRC	1989	SAR Project		
		MES			JRC	1989	SAR Project		
		TTY			JRC	1989	SAR Project		
		TDMA			JRC	1989	SAR Project		
		CE			JRC	1989	SAR Project		
		Telephony (x2)			JRC	1989	SAR Project		
		Fax			JRC	1989	SAR Project		



LEGEND

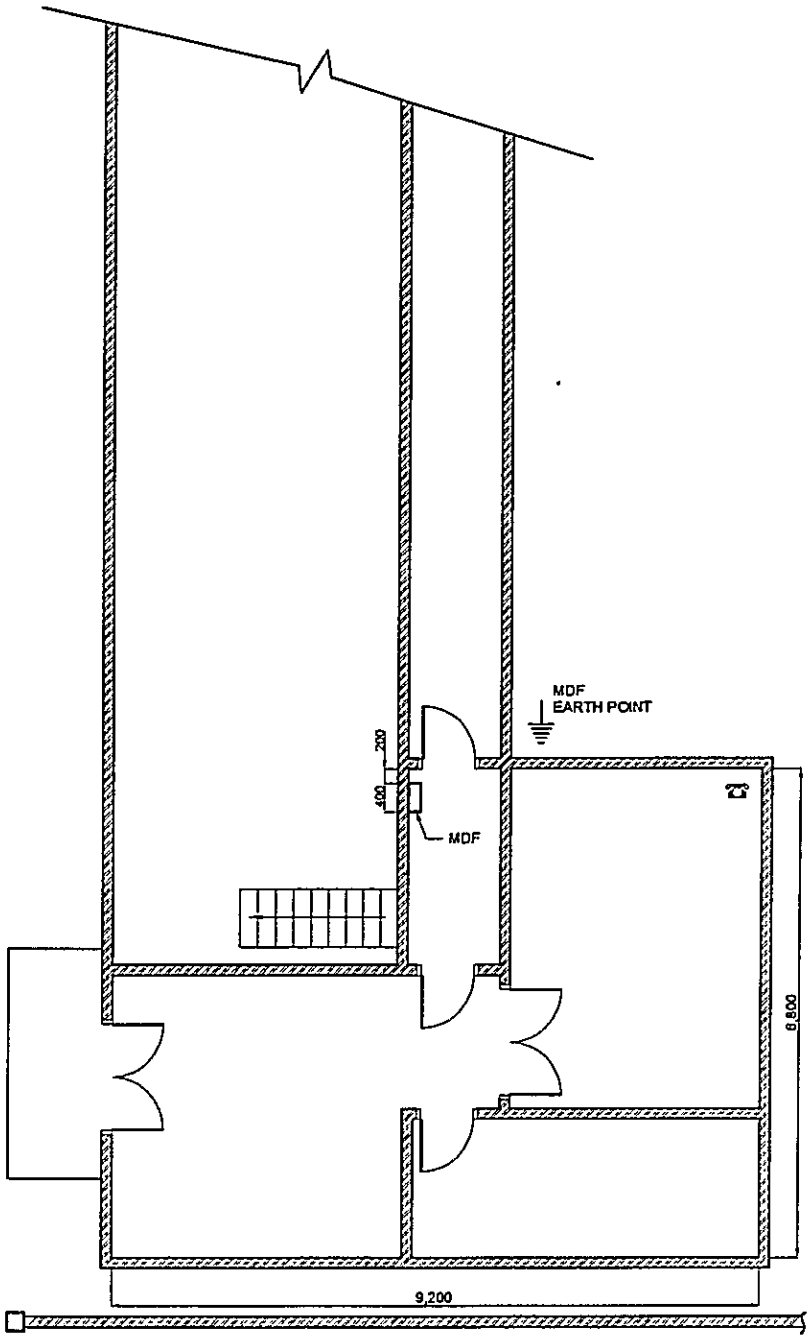
ANT : ANTENNA

☎ : TELEPHONE SET

DATE: July 04, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO.: 1 / 1
SCALE: 1 : 300	SITE NAME: SURABAYA	
DIMENSION: Milimeter	DRAWING NO.: K,P,L,P,-,S,B,Y,-,0,9,5,-,2,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



1st FLOOR

LEGEND

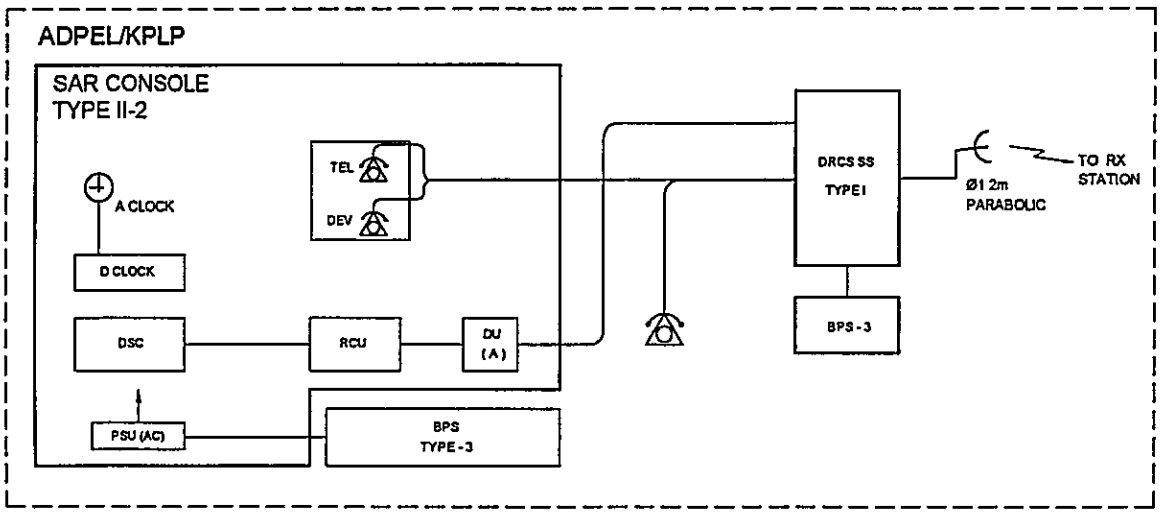
MDF MAIN DISTRIBUTION FRAME

☎ - TELEPHONE SET

APPROVED BY JICA

DRAWN BY AAB

DATE: July 04, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/2
SCALE: 1 : 100	SITE NAME: SURABAYA	
DIMENSION: Milimeter	DRAWING NO: KPLP-SBY-095-3	
JICA -	PT. Aneka Asia Buana	



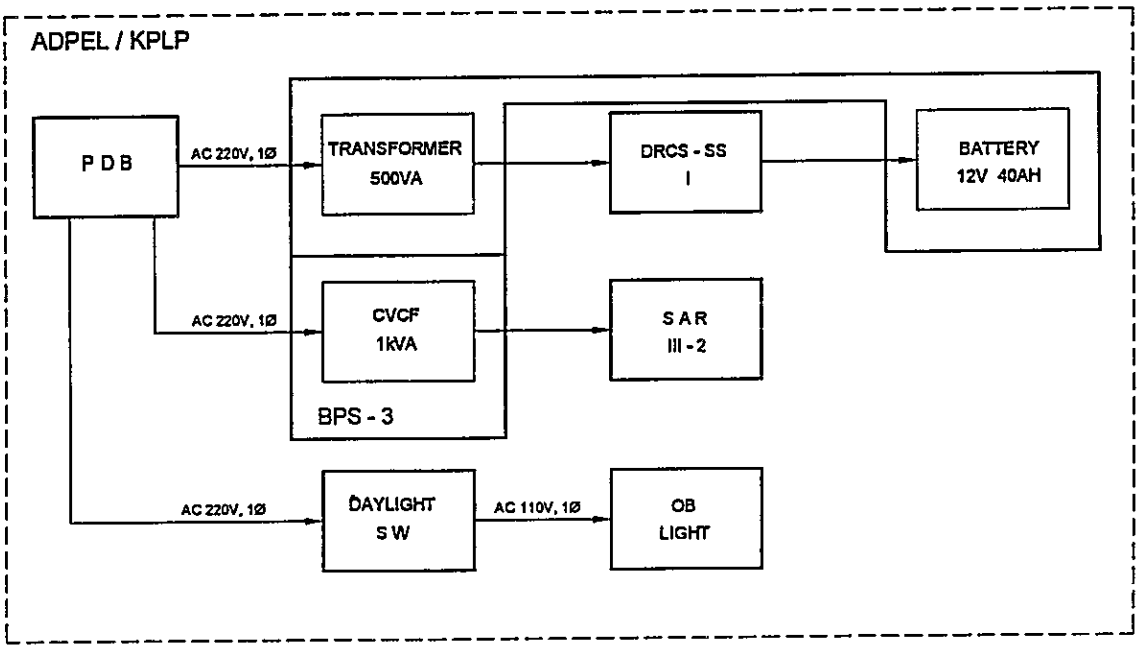
LEGEND

BPS	BATTERY POWER SUPPLY
DSC	DIGITAL SELECTIVE CALLING
PSU	POWER SUPPLY UNIT
TEL	TELEPHONE
RX	RECEIVING (ING)
	TELEPHONE SET

APPROVED BY JICA

DRAWN BY AAB

DATE: July 03, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: SURABAYA	
DIMENSION: Milimeter	DRAWING NO: KPLP-SBY-095-5	
JICA – PT. Aneka Asia Buana		



LEGEND

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

DATE: July 02, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SURABAYA	
DIMENSION: Milimeter	DRAWING NO: KPLP-SBY-0955-6	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAR | APPROVED BY JICA.

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

1st Class Coast Station
Surabaya
(Coast Station No. 95)

Table of Content

RX	TX	VHF	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	SURABAYA		
CLASS	1st	NO.	95

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
RX	Jl. Kalimas Baru No. 194	031-329391	031-3291964	112° 43′ 59″ E	07° 11′ 51″ S
TX	Jl. Kalimas Baru No. 73	031-3291755		112° 44′ 08″ E	07° 11′ 05″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Juanda [Taking time: 1:30 hr.]	☑ Highway	☑ Heavy	☑ Hotel	
By Ship to Location [Taking time: 1:50 hr.]	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF RECEIVING STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☑ 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		☑ Tide	☑ ☐ Lightning system
Altitude	1.00 M		**Telephone Lines**	☑ ☐ Feeder Cable Way
Land area	2,160 m²		☑ 4 Lines	☑ ☐ City water

3.2 Building Conditions

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

Room Area (m²)	
Operation room	135.00
E / G room	42.00

Remark RX Station will be removed to TX Station

3.3 Power Source

	PLN Source	E/G
Voltage	380/220 V	220 V
Phase	3	3
Wire	4	4
kVA	33	55/10

Quality of PLN source	
Fluctuations	220 V ± 10 %
Availability of power per day	24 Hours
Power interruption /month	2 Times
Total interpt. hours /month	20 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	Liter
Main tank	2 k Liter

E/G Stand-by System

☐ Single System

☑ Dual System

4. CONDITIONS OF TRANSMITTING STATION

Refer to attached drawing

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	1.00 m		**Telephone Lines**	☑ ☐ Feeder Cable Way
Land area	3,896 m²		☑ 1 Lines	☑ ☐ City water

SUMMARY OF COAST STATION

SITE	SURABAYA		
CLASS	1st	NO.	95

4. CONDITIONS OF TRANSMITTING STATION (Continued)

Refer to attached drawing

Building Conditions		Power Source				
Constructions			PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220/380 V	220 V	Good Bad	
Structure	Mortar	Phase	3	3	☑ ☐ Power Supply System	
Type of roof	Roof Tile	Wire	4	4	☑ ☐ Operations of E/G	
Type of ceiling	Asbestos	kVA	25.2	55/80	☑ ☐ Operations of AVR	
Type of wall	Brick	Quality of PLN source			Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	220 V ± 1 %		Day tank	100 Liter
Flooring	Ceramic	Availability of power per day		24 Hours	Main tank	6.2 k Liter
Room Area (m²)		Power interruption /month		1 Times	E/G Stand-by System	
Operation room	72.00	Total interpt. hours /month		15 Hours	☐ Single System	
E / G room	30.00	Max. interpt. hours at once		10 Hours	☑ Dual System	
Remark	TX Station will be removed to the other place					

5. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself
Examples of major failure	Receiver NRD 43, Display, CPU damaged
Sufficiency of spares	Spare part unavailable

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☑ Storm	Antenna broken	☐	☑	External noises
☑ Lightning	Tel. Reapeater damage	☐	☑	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

6. PERSONNEL FORMATIONS

	RX	TX
Chief	1	
Operator (skilled)	50 (45)	()
Technician (skilled)	5 (5)	9 (1)
Administrator		
T o t a l	56	9

Training Record				
Course	Class	Location	Period	Trainee

7. STATISTICAL COMMUNICATION TRAFFIC DATA

Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996		15			1991				1996	4,069	16,872	1,711
1997		19			1992	3,310	9,667	8,684	1997	4,203	18,523	1,792
1998		9			1993	9,014	35,132	7,915	1998	3,091	13,135	1,165
1999		14			1994				1999	2,876	11,14	757
2000		8			1995				2000	2,184	8,123	508

8. COMMENTS

Suggestion	Request for upgrading RX and TX grounding system, Lightning System, and new Antenna cable Land Area for TX and RX is not sufficient, Spare part not enough, Measuring equipment damaged, Request for upgrading TX land area, UHF does not functioning well Air Conditioning for RX and TX has been aged
Remarks	TX Station will be removed to the other place

INVENTORY

Site Name: Surabaya

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF Telephoni Transmitter	JRS-106NB	BS-61490	JRC	1985	F-TA-193:PH1		Good
2		Transmitter HF telephoni	JRS-106NB	BS-62114	JRC	1989	F-TA-193:PH2		Good
3		HF DSC Transmitter	JRS-713	BS-63505	JRC	1995	F-TA-193:PH3		Good
4		NBDP Transmitter	JRS-713	BS-63507	JRC	1995	F-TA-193:PH3		Good
5		HF Telephoni Transmitter	JRS-106NB	BS-62084	JRC	1990	SAR Project		Good
6		HF TG/TP Transmitter	JRS-713	BS-63506	JRC	1995	F-TA-193:PH3		Good
7		1KW HF Transmitter (DSC)	JRS-713AM	BS-63505	JRC	1996	F-TA-193:PH3		Good
8		1KW HF Transmitter (NBDP)	JRS-713AM	BS-63507	JRC	1996	F-TA-193:PH3		Good
9		1kW MF/HF Transmitter (MOBIL)	JRS-713AM	JF00034	JRC	1997	F-TA-193.PH3		Good
10		1kW MF/HF Transmitter (FIX)	JRS-713BM	JF00044	JRC	1997	F-TA-193:PH3		Good
1-2		**Remote Control System**							
1		Remote Control Rack	GED-1090D	BP-91384	JRC	1987	F-TA-193:PH1		Good
2		Local Terminal Unit	JCC-300LRs	BP-90896	JRC	1987	F-TA-193:PH1		Good
3		Local Terminal Unit	JCC-300LRS	BP-90897	JRC	1987	F-TA-193:PH1		Good
4		Local Terminal Unit	JCC-300LRS	BP-90898	JRC	1987	F-TA-193:PH1		Good
5		Local Terminal Unit	JCC-300LRS	BP-90899	JRC	1987	F-TA-193:PH1		Good
6		Local Terminal Unit	JCC-300LRS	BP-91774	JRC	1987	F-TA-193.PH1		Good
7		Local Terminal Unit	JCC-300LRS	BP-91775	JRC	1987	F-TA-193.PH1		Good
8		Local Terminal Unit	JCC-300LRS	BP-91776	JRC	1987	F-TA-193:PH1		Good
9		Multiplex Terminal 24 Ch	JUF-5A	EP-11846	JRC	1985	F-TA-193·PH1		Good
10		Voice Frequency Telegraph 12 Ch	JUT-1A	EQ-12844	JRC	1985	F-TA-193:PH1		Good
11		Remote Control Unit Rack	GED-1110B	BB-91931	JRC	1990	SAR Project		Good
12		Local Terminal Unit	NKZ-223	BP-91987	JRC	1990	SAR Project		Good
13		Remote Control Rack	GED-1110A	BP-91920	JRC	1989	SAR Project		Good
14		Local Terminal Unit	JCC-300LRS	BP-91838	JRC	1989	SAR Project		Good
15		Remote Cont type Marine VHF TX	GFD-260YM		JRC	1989	SAR Project		Good
16		DRCS BS(Radio Bay) Digital Interface Bay	NUL-93A	ET-12101-2	JRS	1990	SAR Project		Good
17		DRCS BS (Radio Bay)	NUL-148	ET-12101-1	JRS	1990	SAR Project		Good
18		Main Distribution Frame (NQE-40B3)	H-6JFTE00006	S-18799	JRS	1989	SAR Project		Good

INVENTORY

Site Name: Surabaya

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
19		Main Distribution Frame (NQE-40B2)	H-6JFTE00005	S-18775	JRC	1989	SAR Project		Good
20		Main Distribution Frame (NQE-40B2)	H-6JFTE00005	S-18774	JRC	1989	SAR Project		Good
21		DRCS SS type II	JUL-105.4	ET-12125	JRC	1989	SAR Project		Good
22		Main Distribution Frame	NQE-357E1	S-18744	JRC	1989	SAR Project		Good
23		TX Telecontroller	NCH-300P	BP-91794	JRC	1989	SAR Project		Good
24		RX Telecontroller	NCG-95	BP-26467	JRC	1989	SAR Project		Good
25		RX Telecontroller	NCH-300P	BP-91795	JRC	1989	SAR Project		Good
26		Signal Controller	NQP-21	BP-91730	JRC	1989	SAR Project		Good
27		Marine VHF Telecontroller	NCE-4378	BP-92290	JRC	1989	SAR Project		Good
28		Multiplex Comm sys DRCS Subcnber Eqpt	JUL-105.2	ET-12115	JRC	1989	SAR Project		Good
29		DRCS type I	JUL-105.2	ET-12116	JRC	1989	SAR Project		Good
30		Local Teerminal Unit	JCC-300LW	BP-90901	JRC	1987	F-TA-193:PH1		Good
31		Main Distribution Frame	JUP-45 (No1)	EM-11764	JRC	1987	F-TA-193:PH1		Good
33		400MHz SSPM MUX Radio Relay Eqpt	JUP-45 (No2)	EM-11765	JRC	1987	F-TA-193:PH1		Good
34		400MHz SSPM MUX Radio Relay Eqpt	NQE-40AZ	EQ-14026	JRC	1987	F-TA-193:PH1		Good
35		Multiplex Terminal Equipment	JUF-5A	EP-12046	JRC	1987	F-TA-193:PH1		Good
36		Telecontroller	NCH-701	BP-98265	JRC	1995	F-TA-193:PH3		Good
37		Telecontroller	NCH-701	BR-59362	JRC	1995	F-TA-193:PH3		Good
38		Telecontroller	NCH-300D	BP-91767	JRC	1989	SAR Project		Good
39		Telecontroller	NCH-300D	Bp-90908	JRC	1989	SAR Project		Good
40		Local Exchanger	JUX-150D-2	EQ-15890	JRC	1989	SAR Project		Good
41		Telecontroller (Fix) With Cabinet	NCH-701M	BP-98702	JRC	1996	F-TA-193:PH3		Good
42		Telecontroller (TP/TG) with Cabinet	NCH-701M	BP-98701	JRC	1996	F-TA-193:PH3		Good
43		Telecontroller	NCH-701M	BP-98700	JRC	1996	F-TA-193:PH3		Good
1-3		**Operator Console/Desk/Rack**							
1-3-1		**Search & Monitor Console**							
1		Search & Monitor Console	NCA-564B	BP-89356	JRC	1985	F-TA-193:PH1		Good
2		Speaker Panel	NVA-64	BP-89356	JRC	1985	F-TA-193:PH1		Good
3		Signal selector	NCj-461A	BP-89356	JRC	1985	F-TA-193:PH1		Good
4		Auto Alarm	JXA-15A	BP-89356	JRC	1985	F-TA-193:PH1		Good
5		Auto Alarm	JXA-8A	BP-89356	JRC	1985	F-TA-193:PH1		Good
6		Scanning Unit	NDH-93	BR-35458	JRC	1985	F-TA-193:PH1		Good
7		Automatic Direction Fending	MF-12477	BR-33391	JRC	1985	F-TA-193:PH1		Good
8		Tape Recorder	X-2000R	50593	TEAC	1985	F-TA-193:PH1		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3-2		RX Operation Rack							
1		Rack	GED-1095	BP-91397	JRC	1987	F-TA-193:PH1		Good
2		Telephone Repeater	NQQ-31A	BP-89456	JRC	1987	F-TA-193:PH1		Good
3		Signal Controller	NQP-21	BP-89456	JRC	1987	F-TA-193 PH1		Good
4		Speaker	NVA-92	BP-89456	JRC	1987	F-TA-193:PH1		Good
5		Operation Rack	GED-1094	BP-91397	JRC	1987	F-TA-193:PH1		Good
6		Speaker	NVA-92	BP-91397	JRC	1987	F-TA-193:PH1		Good
7		Scanning Unit	NDH-93	BR-35457	JRC	1987	F-TA-193:PH1		Good
8		Operation Rack	GFD-1055A	BP-90775	JRC	1985	F-TA-193:PH1		Good
9		Telephone Repeater	NQQ-31A	BP-90775	JRC	1985	F-TA-193:PH1		Good
10		Scanning Unit	NDH-93	BP-90775	JRC	1985	F-TA-193:PH1		Good
11		Operation Rack	GED-1249C	BP-98301	JRC	1995	F-TA-193:PH3		Good
12		All Wave Receiver	NRD-93	BR-33391	JRC	1995	F-TA-193:PH1		Good
13		All Wave Repeater	NRD-93	BR-59362	JRC	1996	F-TA-193:PH3		Good
14		All Wave Receiver	NRD-93	BR-69361	JRC	1996	F-TA-193:PH3		Good
15		All Wave Receiver	NRD-93	BR-33386	JRC	1985	F-TA-193:PH1		Good
16		All Wave Receiver	NRD-93	BR-33389	JRC	1985	F-TA-193:PH1		Good
17		All Wave Receiver	NRD-93	BR-33390	JRC	1985	F-TA-193:PH1		Good
18		Receiver	NRD-93	BR-44897	JRC	1989	F-TA-193:PH2		Good
19		All Wave Receiver	NRD-93	BR-33442	JRC	1985	F-TA-193:PH1		Good
20		Receiver	NRD-95	BR-49458	JRC	1989	SAR Project		Good
21		Receiver	NVA-81F		JRC	1989	SAR Project		Good
22		Receiver	NRD-93	BR-49344	JRC	1989	SAR Project		Good
1-3-3		MF TP Console							
1		Console	NCA-822C	JF31758	JRC	1997	F-TA-193:PH3		Good
2		Receiver	NRD-93	BR41469	JRC	1985	F-TA-193:PH1		Good
3		Receiver	NRD-93	BR33387	JRC	1985	F-TA-193:PH1		Good
4		Scanning Unit	NDH-93	1	JRC	1997	F-TA-193:PH3		Good
5		Speaker Panel	NVA-64-2	1	JRC	1997	F-TA-193:PH3		Good
6		Signal Controller	NQP-21-1	BP90990	JRC	1985	F-TA-193:PH1		Good
7		Telephone Repeater	NQQ-31BB	JF31910	JRC	1997	F-TA-193:PH3		Good
8		Telecontroller	NCH-701M	JF31963	JRC	1997	F-TA-193·PH3		Good
9		Tx Selector	NCJ-676	JF32059	JRC	1997	F-TA-193:PH3		Good
10		Junction Box	NQD-3760	1	JRC	1997	F-TA-193:PH3		Good

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No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
11		Jack Panel	NQC-742A	1	JRC	1997	F-TA-193:PH3		Good
12		RF Jack Panel	NQE-584C	1	JRC	1997	F-TA-193:PH3		Good
13		Power Supply	NBK-31	1	JRC	1997	F-TA-193:PH3		Good
14		Clock (+7H)	6HCED00073	1	JRC	1997	F-TA-193:PH3		Good
15		Headset	NTR-3302	1	JRC	1997	F-TA-193:PH3		Good
16		Telecontroller	NCH-300P	BP91757	JRC	1985	F-TA-193:PH1		Good
1-3-4		**HF TG/NBDP/TP Console**							
1		Console	NCA-821C	JF31762	JRC	1997	F-TA-193:PH3		Good
2		Receiver	NRD-93	BR33372	JRC	1985	F-TA-193:PH1		Good
3		Receiver	NRD-93	BR41466	JRC	1985	F-TA-193:PH1		Good
4		Scanning Unit	NDH-93	1	JRC	1997	F-TA-193:PH3		Good
5		Scanning Unit	NDH-93	BR35453	JRC	1985	F-TA-193:PH1		Good
6		Speaker Panel	NVA-64-2	1	JRC	1997	F-TA-193:PH3		Good
7		Speaker Panel	NVA-64-2	1	JRC	1997	F-TA-193:PH3		Good
8		Signal Controller	NQP-21-1	JF31869	JRC	1997	F-TA-193:PH3		Good
9		Signal Controller	NQP-21-1	JF31870	JRC	1997	F-TA-193:PH3		Good
10		Telephone Repeater	NQQ-31BB	JF31888	JRC	1997	F-TA-193:PH3		Good
11		Telecontroller	NCH-300P	BP89298	JRC	1985	F-TA-193:PH1		Good
12		Telecontroller	NCH-300P	BP91752	JRC	1985	F-TA-193:PH1		Good
13		System Rack	NCT-32S	JF31737	JRC	1997	F-TA-193:PH3		Good
14		FS MODEM	CHF-12A	JF31706	JRC	1997	F-TA-193:PH3		Good
15		CPU Interface	CDC-721A	JF31719	JRC	1997	F-TA-193:PH3		Good
16		Level Converter	CMH-1280B	JF31731	JRC	1997	F-TA-193:PH3		Good
17		Personal Computer	PC 300 GL	90-C8KM3	IBM	1997	F-TA-193:PH3		Good
18		CRT Display	6540-02E	66-A0988	IBM	1997	F-TA-193:PH3		Good
19		Keyboard	KB-8923	0156102	IBM	1997	F-TA-193:PH3		Good
20		Mouse		23-033646	IBM	1997	F-TA-193:PH3		Good
21		Software for NBDP/TELEX	7YLED1106	1		1997	F-TA-193:PH3		Good
22		Desk for Personal Computer	CD4-398	1		1997	F-TA-193:PH3		Good
23		Printer Rack	P-1020G	1		1997	F-TA-193:PH3		Good
24		Printer	LX-300	1YNY043635	EPSON	1997	F-TA-193:PH3		Good
25		Printer	LX-300	1YNY043958	EPSON	1997	F-TA-193:PH3		Good
26		Printer Auto-Switch	ASL-21(230)	1		1997	F-TA-193:PH3		Good
27		Power Supply	NQD-3759	1	JRC	1997	F-TA-193:PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
28		Power Supply	NQD-3759	1	JRC	1997	F-TA-193:PH3		Good
29		Junction Box	NRD-3759A	1	JRC	1997	F-TA-193:PH3		Good
30		Junction Box	NRD-3759A	1	JRC	1997	F-TA-193:PH3		Good
31		Jack Panel	NQC-742A	1	JRC	1997	F-TA-193:PH3		Good
32		Jack Panel	NQC-742A	1	JRC	1997	F-TA-193:PH3		Good
33		RF Jack Panel	NQE-584C	1	JRC	1997	F-TA-193:PH3		Good
34		RF Jack Panel	NQE-584C	1	JRC	1997	F-TA-193:PH3		Good
35		Power Supply	NBK-31	1	JRC	1997	F-TA-193:PH3		Good
36		Power Supply	NBK-31A	1	JRC	1997	F-TA-193:PH3		Good
37		Clock (+7H)	6HCED00073	1	JRC	1997	F-TA-193:PH3		Good
38		Key	HK-704	1	JRC	1997	F-TA-193:PH3		Good
39		Key	HK-704	1	JRC	1997	F-TA-193:PH3		Good
40		Headphone	ST-3	1	JRC	1997	F-TA-193:PH3		Good
41		Headset	NTR-3302	2	JRC	1997	F-TA-193.PH3		Good
42		Headset	NTR-3302	1	JRC	1997	F-TA-193:PH3		Good
43		Paper Tape Reader Puncher	DPT-610A	1	JRC	1997	F-TA-193:PH3		Good
44		Morse Converter	NGK-9	JF31745	JRC	1997	F-TA-193:PH3		Good
45		Software for NGK-9	7YRED0002	1		1997	F-TA-193:PH3		Good
46		Personal Computer	PC 300 GL	90-C8KH4	IBM	1997	F-TA-193:PH3		Good
47		CRT Display	6540-02E	66-47347	IBM	1997	F-TA-193:PH3		Good
48		Keyboard	KB-8923	0190187	IBM	1997	F-TA-193:PH3		Good
49		Mouse		23-003572	IBM	1997	F-TA-193:PH3		Good
50		Printer	LX-300	1YNY043969	EPSON	1997	F-TA-193:PH3		Good
51		Desk for Personal Computer	CD4-398	1		1997	F-TA-193:PH3		Good
1-3-5		**FIX COMM. Console**							
1		Console	NCA-823C	JF31768	JRC	1997	F-TA-193:PH3		Good
2		Receiver	NRD-93	BR78041	JRC	1985	F-TA-193:PH1		Good
3		Receiver	NRD-93	BR33442	JRC	1985	F-TA-193:PH1		Good
4		Receiver	NRD-93	BR69362	JRC	1985	F-TA-193:PH1		Good
5		Speaker Panel	NVA-64-2	1	JRC	1997	F-TA-193:PH3		Good
6		Telecontroller	NCH-300P	BP91747	JRC	1985	F-TA-193:PH1		Good
7		Telecontroller	NCH-701M	JF31964	JRC	1997	F-TA-193.PH3		Good
8		Signal Controller	NQP-21-1	JF31880	JRC	1997	F-TA-193:PH3		Good
9		Audio & Key Switch	NCJ-400B	JF31863	JRC	1997	F-TA-193:PH3		Good

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No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
10		Telephone Repeater	NQQ-31BB	JF31913	JRC	1997	F-TA-193:PH3		Good
11		Common Repeater	NQQ-18GC	JF31946	JRC	1997	F-TA-193:PH3		Good
12		System Rack	NCT-32S	JF31741	JRC	1997	F-TA-193:PH3		Good
13		FS MODEM	CHF-12A	JF31712	JRC	1997	F-TA-193:PH3		Good
14		CPU Interface	CDC-721A	JF31724	JRC	1997	F-TA-193:PH3		Good
15		Personal Computer	PC 300 GL	90 - C8HL8	IBM	1997	F-TA-193:PH3		Good
16		CRT Display	6540-02E	66-54270	IBM	1997	F-TA-193:PH3		Good
17		Keyboard	KB-8923	0177858	IBM	1997	F-TA-193:PH3		Good
18		Mouse		23-003288	IBM	1997	F-TA-193:PH3		Good
19		Software for NBDP	7YLED1105	1		1997	F-TA-193:PH3		Good
20		Desk for PC	CD4-398	1		1997	F-TA-193:PH3		Good
21		Junction Box	NQD-3761	1	JRC	1997	F-TA-193:PH3		Good
22		Power Supply	NBK-31	1	JRC	1997	F-TA-193:PH3		Good
23		Clock (+7H)	6HCED00073	1	JRC	1997	F-TA-193:PH3		Good
24		Jack Panel	NQC-742A	1	JRC	1997	F-TA-193:PH3		Good
25		RF Jack Panel	NQE-584C	1	JRC	1997	F-TA-193:PH3		Good
26		Headset	NTR-3302	1	JRC	1997	F-TA-193:PH3		Good
27		Printer Rack	P-1020G	1		1997	F-TA-193:PH3		Good
28		Printer	LX-300	1YNY071457	EPSON	1997	F-TA-193:PH3		Good
1-3-6		**DSC Console**							
1		DSC Console	NCA-783A	BP-98265	JRC	1995	F-TA-193:PH3		Good
2		VHF Controller	NCU-272	BP-98623	JRC	1995	F-TA-193:PH3		Good
3		Telecontroller	NCH-701		JRC	1995	F-TA-193:PH3		Good
4		DSC	NCT-60G	GA-11260	JRC	1989	SAR Project		Good
5		SAR Console	NCA-682B	BP-91897	JRC	1989	SAR Project		Good
6		Telecontroller	NCH\701M	BP-98700	JRC	1996	F-TA-193:PH3		Good
7		Personal Computer 150DX4-100MHz	PC-100	AI-9000AKLY	JRC	1996	F-TA-193:PH3		Good
8		CRT Display	6542-105	66-66264	JRC	1996	F-TA-193:PH3		Good
9		System Ploppy Disk (DSC) (1)	7YLED10101		JRC	1996	F-TA-193:PH3		Good
10		System Ploppy Disk (DSC / NBDP)	7YLED10102	7YLED10101	JRC	1996	F-TA-193:PH3		Good
11		Chair (1)				1996	F-TA-193:PH3		Good
12		Printer Rack (1)			JRC	1996	F-TA-193:PH3		Good
13		Printer	LX-300	77424	JRC	1996	F-TA-193:PH3		Good
14		Paper (2)			JRC	1996	F-TA-193:PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3-7		**DSC Rack**							
1		DSC W/K RX Rack (2U type)	GED-1249C	BP-98301	JRC	1996	F-TA-193:PH3		Good
2		RF Jack Panel (1)			JRC	1996	F-TA-193:PH3		Good
3		Junction Box (1)			JRC	1996	F-TA-193:PH3		Good
4		ALM Buzzer (1)			JRC	1996	F-TA-193:PH3		Good
5		DSC W/K Receiver	NRD-740	BR-69414	JRC	1996	F-TA-193:PH3		Good
6		DSC W/K Receiver	NRD-740	BR-69415	JRC	1996	F-TA-193:PH3		Good
7		DSC W/K Receiver	NRD-740	BR-69416	JRC	1996	F-TA-193:PH3		Good
8		DSC W/K Receiver	NRD-740	BR-69417	JRC	1996	F-TA-193:PH3		Good
9		DSC W/K Receiver	NRD -740	BR-69418	JRC	1996	F-TA-193:PH3		Good
10		DSC W/K Receiver	NRD-740	BR-69419	JRC	1996	F-TA-193.PH3		Good
11		DSC W/K Receiver	NRD-740	BR-69420	JRC	1996	F-TA-193:PH3		Good
12		DSC W/K Receiver	NRD-740	BR-69421	JRC	1996	F-TA-193:PH3		Good
13		RX Conteroller	NCJ-536A	BP-98374	JRC	1996	F-TA-193:PH3		Good
14		Antenna Multi coupler	NAJ-110A	BC-19364	JRC	1996	F-TA-193:PH3		Good
15		1600KHz High Pass filter	CFK-2	BC-19349	JRC	1996	F-TA-193:PH3		Good
16		System Rack with Mother Board & PS	NCT-32	BP-98542	JRC	1996	F-TA-193:PH3		Good
17		DSC DEM	CND-129A	BP-98457	JRC	1996	F-TA-193:PH3		Good
18		DSC DEM	CND-129A	BP-98458	JRC	1996	F-TA-193:PH3		Good
19		DSC MOD	CNM-159A	BP-98374	JRC	1996	F-TA-193:PH3		Good
20		VHF DSC Modem (CH-70)	NCM-158A	BP-98519	JRC	1996	F-TA-193:PH3		Good
21		CPU IF	CDC-721A	BP-98419	JRC	1996	F-TA-193:PH3		Good
22		Power Supply	NBA-3979C	BP-98555	JRC	1996	F-TA-193:PH3		Good
1-3-8		**NBDP Console**							
1		NBDP Console	NCA-784A	BP-98279	JRC	1995	F-TA-193:PH3		Good
2		Speaker Panel	NVA-64	BP-98279	JRC	1995	F-TA-193:PH3		Good
3		Telephon Repeater			JRC	1995	F-TA-193:PH3		Good
4		Jack Panel	NQC-742A		JRC	1995	F-TA-193.PH3		Good
5		NBDP Console (RX Station)					F-TA-193:PH3		Good
6		RF Jack Panel (1)	NQE-584C		JRC	1996	F-TA-193:PH3		Good
7		Junction Box (1)	NQD-3654A		JRC	1996	F-TA-193·PH3		Good
8		Power Supply (1)	NBK-31		JRC	1996	F-TA-193·PH3		Good
9		Receiver	NRD-93	BR-69361	JRC	1996	F-TA-193.PH3		Good
10		Receiver	NRD-93	BR-69362	JRC	1996	F-TA-193:PH3		Good

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No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
11		Hybrid	CB-721S-S	8548	JRC	1996	F-TA-193:PH3		Good
12		Speaker Panel (1)	NVA-64-2		JRC	1996	F-TA-193:PH3		Good
13		Telecontroller	NCH-701M	BP-98701	JRC	1996	F-TA-193:PH3		Good
14		Signal Controller	NQP-21-1	BP-98628	JRC	1996	F-TA-193:PH3		Good
15		Telephone Repeater	NQQ-31BA	BP-98641	JRC	1996	F-TA-193:PH3		Good
16		System Rack with Mother Board & PS	NCT-32S-A	BP-98568	JRC	1996	F-TA-193:PH3		Good
17		FS Modem	CHF-12A	BP-98395	JRC	1996	F-TA-193:PH3		Good
18		CPU IF	CDC-721A	BP-98418	JRC	1996	F-TA-193:PH3		Good
19		Level Converter	CMH-1280A	BP-98576	JRC	1996	F-TA-193:PH3		Good
20		2W/4W Converter	NHH-556A-3	BP-99820	JRC	1996	F-TA-193:PH3		Good
21		Personal Computer	6281-V5B	A19000A4	JRC	1996	F-TA-193:PH3		Good
22		Personal Computer	PC-100	KLT	JRC	1996	F-TA-193:PH3		Good
23		CRT Display	6542-105	66-66264	JRC	1996	F-TA-193:PH3		Good
24		System Ploppy Disk (NBDP/TELEX)	7YLED10106		JRC	1996	F-TA-193:PH3		Good
25		Clock (+7H) (1)	6HCED00073		JRC	1996	F-TA-193:PH3		Good
26		Headset (1)	NTR-3302		JRC	1996	F-TA-193:PH3		Good
27		Morse Key (1)	HK-704		JRC	1996	F-TA-193:PH3		Good
28		Cable for Key (1)	KC-547		JRC	1996	F-TA-193:PH3		Good
29		Headphone (1)	ST-3		JRC	1996	F-TA-193:PH3		Good
30		Chair (1)			JRC	1996	F-TA-193:PH3		Good
31		Printer Rack (1)	P-1020G		JRC	1996	F-TA-193:PH3		Good
32		Printer (2)	LX-300		JRC	1996	F-TA-193:PH3		Good
33		Paper (4)			JRC	1996	F-TA-193:PH3		Good
34		Printer Auto switch (1)	ALS-218240)		JRC	1996	F-TA-193:PH3		Good
35		Paper Tape Reader/Puncher (1)	DPT-610A		JRC	1996	F-TA-193:PH3		Good
1-4		**VHF System**							
1		VHF Transceiver 25Watt	FMX-75S	58000073	Spilsbury	1981			Good
2		VHF Console	GFD-501YB	CV-57494	JRC	1985	F-TA-193:PH1		Good
3		VHF Console Repeater	GFD-501YB	CM-63483	JRC	1987	F-TA-193:PH1		Good
4		VHF Transceiver	GFD-260YK	CV-57463	JRC	1985	F-TA-193:PH1		Good
5		VHF Transceiver	GFD-260YL	CV-574577	JRC	1985	F-TA-193.PH1		Good
6		VHF Transceiver	GFD-260YL	CV-574578	JRC	1989	SAR Project		Good
7		VHF Transceiver Marine	6FD-260YM	CM-63461	JRC	1969			Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
8		VHF Transceiver Marine	6FD-260YM	CM-63456	JRC	1985	F-TA-193:PH1		Good
9		VHF Transceiver Marine	6FD-260YM	CM-63449	JRC	1985	F-TA-193:PH1		Good
10		VHF Air	NTE-26	AT-002	JRC	1989	SAR Project		Good
11		Duplexer	AN-158YB	950723	JRC	1995	F-TA-193.PH3		Good
12		Duplexer	AW-158YB	7-2129	JRC	1987	F-TA-193:PH1		Good
13		RX Duplexer	AW-158YB	950724	JRC	1996	SAR Project		Good
14		VHF Duplexer	AW-158YB	950724	JRC	1996	SAR Project		Good
15		Coaxial Arrester	NYZ-150	95004	JRC	1996	SAR Project		Good
16		Coaxial Arrester	AYZ-150	95004	JRC	1996	SAR Project		Good
17		Antenna Duplexer	DF33-1500A	7-2531	JRC	1987	F-TA-193:PH1		Good
18		Band Pass Filter	BP2-1500	7-2524	JRC	1987	F-TA-193:PH1		Good
19		Additional 6 CHs (CH7-12)	JUF-5A	EP-12046	JRC	1996	F-TA-193:PH3		Good
20		VHF TX/RX (CH70 DSC)	JRV-500AP	BH-20426	JRC	1996	F-TA-193:PH3		Good
21		VHF TX/RX (CH70DSC) with	JRV-500APM	BH-20434	JRC	1996	F-TA-193.PH3		Good
26		Modem for NCU-272-11 (1) RX	CNM-162		JRC	1996	F-TA-193:PH3		Good
1-5		**UHF/SHF Link**							
1		400MHZ UHF Radio Relay	JUP-450	EM-11514	JRC	1985	F-TA-193:PH1		Good
2		Additional 6 CHs (CH7-12)	JUF-5A	EP-12045	JRC	1996	F-TA-193:PH3		Damaged
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
2-1-1		**TX Station**							
1		25mH Antenna Tower (5 Unit)	Kremona			1969			Good
2		4mH Antenna Tower (20 Unit)	Cilender			1969			Good
3		18mH Antenna Tower (1 Unit)	Cilender			1969			Good
4		6mH Antenna Tower (2 Unit)	Cilinder			1969			Good
5		20mH Self Supporting	TS-20M	TS-64211	JRC	1989			Good
6		45mH Self Suporting	TS-45M	SI-64209	JRC	1989			Good
2-1-2		**RX Station**							
1		20mH Antenna Tower (3 Unit)	Kremona			1969			Good
2		70mH Antenna Tower (1 Unit)	Kremona			1969			Good
3		4mH Panzer Mast (2 Unit)	Cilinder			1969			Good
4		10mH Antenna Tower (2 Unit)	Cilender			1989			Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		18mH Antenna Tower (1 Unit)	Cilender			1969			Good
6		6mH Antenna Tower (3 Unit)	Cilender			1989	F-TA-193:PH2		Good
7		10mH Antenna Tower (1Unit)	Cilender			1989	F-TA-193:PH2		Good
8		25mH Antenna Tower	TS-25	TS-64212	JRC	1989	F-TA-193:PH2		Good
2-2		**Antenna System**							
		TX Station							
1		Whip Antenna	WA-13	11896	JRC	1989	F-TA-193:PH2		Good
2		Inverted "L" Antenna (2)	CL-045M		JRC	1996	F-TA-193·PH3		Good
2-3		**Antenna Switch**							
1		Antenna Switch Matrix	ASED-00029B	93824,1	JRC	1985	F-TA-193.PH1		Good
2		Antenna Switch Rack	GED-1116	BP-91882	JRC	1989	F-TA-193:PH2		Good
3		Antenna Exchanger	NKZ-223	BP-91884	JRC	1989	F-TA-193:PH2		Good
4		Antenna Exchanger	NKZ-223	BP-91987	JRC	1990	SAR Project		Good
5		Antenna Changer	NKZ-230	JF31978	JRC	1997	F-TA-193:PH3		Good
2-4		**Antenna Selector**							
6		Antenna Selector Rack	GJD-107F	BP-89121	JRC	1985	F-TA-193:PH1		Good
7		Antenna Multicoupler	NAV-80FA	BC-13468	JRC	1985	F-TA-193:PH1		Good
8		Antenna Multicoupler	NAF-80FA	BC-13469	JRC	1985	F-TA-193:PH1		Good
9		Antenna Multicoupler	NAF-80FA	BC-13470	JRC	1985	F-TA-193:PH1		Good
10		Antenna Multicoupler	NAJ-110A		JRC	1995	SAR Project		Good
11		Antenna Multicoupler	NAF-80FA	BC-13449	JRC	1985	F-TA-193:PH1		Good
2-5		**Antenna Matching Unit**							
1		Antenna Matching Unit	NFG-3CA	BP-91297	JRC	1987	F-TA-193:PH1		Good
2		Antenna Matching Unit	NFG-140A	BP-91890	JRC	1987	F-TA-193:PH1		Good
3		Matching Unit Control	NCM-134F	BP-91887	JRC	1987	F-TA-193:PH1		Good
4		TX AMU for I/L (for DSC)	NFG-140A	BP-98592	JRC	1996	F-TA-193:PH3		Good
5		TX AMU For I/L (for NBDP)	NFG-140A	BP-98591	JRC	1996	F-TA-193:PH3		Good
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		Power Distribution Board	NBJ-402RB	BP-98331	JRC	1995	F-TA-193·PH3		Good
2		Power Distribution Board	NBJ-402 RA	BP-98321	JRC	1995	F-TA-193:PH3		Good
3		Power Distribution Board	NBJ-402RC	BP-98702	JRC	1995	F-TA-193.PH3		Good

INVENTORY

Site Name: Surabaya

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		Power Distribution Board	NBJ-402RC	BP-98382	JRC	1995	F-TA-193:PH3		Good
5		Power Distribution Board	NBJ-402TA-1	BP-98351	JRC	1995	F-TA-193:PH3		Good
6		Type TAI (for TX) 380V-3Ph	NBJ-402TAI	BP-98351	JRC	1996	F-TA-193:PH3		Good
7		Type RAI (For RX) 220V-1Ph	NBJ-402RAI	BP-98321	JRC	1996	F-TA-193·PH3		Good
3-2		**Isolation Transformer**							
1		Isolation Transformer 220/220V	TI 220/220V		JRC	1989	SAR Project		Good
2		Isolation Transformer 220/220V	TI-220/220V		JRC	1989	SAR Project		Good
3		Isolation Transformer 220/220V	TI-220/220V	1929	JRC	1989	SAR Project		Good
4		55KVA 380V-3Ph (for TX)	NBL-227BI	BP-99803	JRC	1996	F-TA-193:PH3		Good
5		10KVA 220V-1PH	NBL-227E2	BP-99816	JRC	1996	F-TA-193:PH3		Good
3-3		**Step-Up Transformer**							
1		Step-Up Transformer	H6LVED401	S-5553	JRC	1990	SAR Project		Good
2		Step-Up Transformer	H6LVED401	S-5552	JRC	1990	SAR Project		Good
3		Transformer NBDP		T-8941-1	JRC	1990	SAR Project		Good
4		Transformer FIX	LVED-401	S-5386	JRC	1990	SAR Project		Good
5		Transformer MFTP	LVED-401	S-5391	JRC	1990	SAR Project		Good
6		Transformer HF TP	LVED-401	S-5385	JRC	1987	F-TA-193:PH1		Good
3-4		**UPS & AVR System**							
1		Power Supply 30Volt			Mitra				Good
2		Power Supply			Victron	1964			Good
3		Back Up Power Supply BPS-4	NBB-111-15P	S-6006	JRC	1989	SAR Project		Good
4		Back Up Power Supply BPS-1	NBB-31.20Z	S-6503	JRC	1989	SAR Project		Good
5		Battery 12V/200AH (1)		31192	Hitachi				Good
6		Battery 12V/200AH (1)		70793	Hitachi				Good
7		Battery 12V/200AH (1)		31192	Hitachi				Good
8		Battery 12V/220AH (2)		60292	Yuasa				Good
9		AVR 2KVA, 220V, 1Ph	Net Pro 2000	NP20A04/96	JRC	1996	F-TA-193·PH3		Good
10		AVR 2KVA, 220V, 1Ph	Net Pro 2000	05A024	JRC	1996	F-TA-193.PH3		Good
11		AVR 1KVA, 220V, 1Ph	Micro 110	9609A021	JRC	1996	F-TA-193:PH3		Good
3-5		**Engine Generator**							
1		70 PK Engine			Kromhout	1968			Good
2		15 PK Engine			Samofa	1968			Dameged
3		70PK Engine			Kromhout	1968			Good

INVENTORY

Site Name: Surabaya

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		100PK Engine			Ford	1990	F-TA-193:PH2		Good
1		Generator 50KVA 110/220Volt	4TS-117		Kramhout	1968			Good
2		Generator 10KVA 110/220Volt	1-S-108		Samofa	1968			Good
3		Generator 55 KVA 110/220V	4TS-117		Kromhout	1968			Damaged
4		Generator 80KVA 110/220V			Ford	1990	F-TA-193:PH2		Good
4		**Others**							
1		Computer Monitor I	G-406542-105CPU	66-6626	IBM	1996	F-TA-193:PH3		Good
2		Computer Monitor II	G-406542-105	66-64664	IBM	1996	F-TA-193:PH3		Good
3		Fire Extinguisher/ CO2 Gas 3,2 Lbs (4			Yamato	1993			Good
4		Fire Extinguisher / CO2 Gas 5 Lbs (10)			Yamato	1993			Good
5		Fire Extinguisher / Spon 9 Lbs (1)			Yamato	1993			Good
6		Fire Extinguisher / Spon 9 Lbs (4)			Yamato	1993			Good
7		Tape Recorder			National				Good
8		Clock			Seiko				Good
9		Teleprinter	T-100	2U75245	Siemens	1964			Good
10		A4 KLT	A-19000			1996	F-TA-193:PH3		Good
11		Key Board			IBM	1996	F-TA-193:PH3		Good
12		Printer	LX-300		Epson	1996	F-TA-193:PH3		Good
13		Printer	LX-300		Epson	1995	F-TA-193:PH3		Good
14		Faximile	FAX	C-51206015	Brother	1995	F-TA-193:PH3		Good
15		Fire Extinguisher CO2 /Gas 50 Lbs (2)			Yamato	1971			Good
16		Air Conditioner 1Pk (Window) (5 Unit)			National	1989			Good
17		Air Conditioner 1Pk (Window) (1 Unit)			Mitsubishi	1983			No Good
18		Air Conditioner 1,5 Pk (Split) (1 Unit)			Sanyo	1983			Good
19		Air Conditioner 2,5 Pk (Split) (1 Unit)			Daikin	1983			No Good
20		Air Conditioner 2,3 Pk (Double Split)			Mitsubishi	1995	F-TA-193:PH3		Good
21		Telephone Set (2)			Iwatsu	1989			Good
22		Air Conditioner (1 Unit)			Sanyo	1989			Good
23		Air Conditioner (1 Unit)			Sanyo	1989			Good
24		Telephone Set (7)			Iwatsu	1989			Good
25		Telephone Set (2)			Jupiter	1989			Good
26		Air Conditioner (2 unit)			Sanyo	1989			Good

INVENTORY

Site Name: Surabaya

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
27		Telephone Set (2)		7891454	Jupiter	1989			Good
28		Telephone Set (3)		7841448	Iwatsu	1989			Good
29		Telephone Set (1)			Iwatsu	1989			Good
30		Desk (2 for RX &VHF)			JRC	1996	F-TA-193:PH3		Good

STATUS OF TROUBLES

SITE NAME : SURABAYA **SBY-95-(1/1)**

Item / Equipment	Receiver, Transmitter, VHF Repeater / NRD 93		
Manufacturer	JRC		
Manufacturer in year	-		
Defective panel / unit	Display Unit, CPU, Loop 2, Exciter, Ref		
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:

In RX Station : necessary re-installation of cable line

For the time being VHF repeater is not active, because disturbed by other station Frequency VHF 400 MHz, therefore Radio Link Frequency must be upgraded to 7 GHz.

In TX Station : Spare unit is not enough, it is needed additional

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Surabaya

Call Sign : Mobile Service : PKD
Fix Service : 8AD

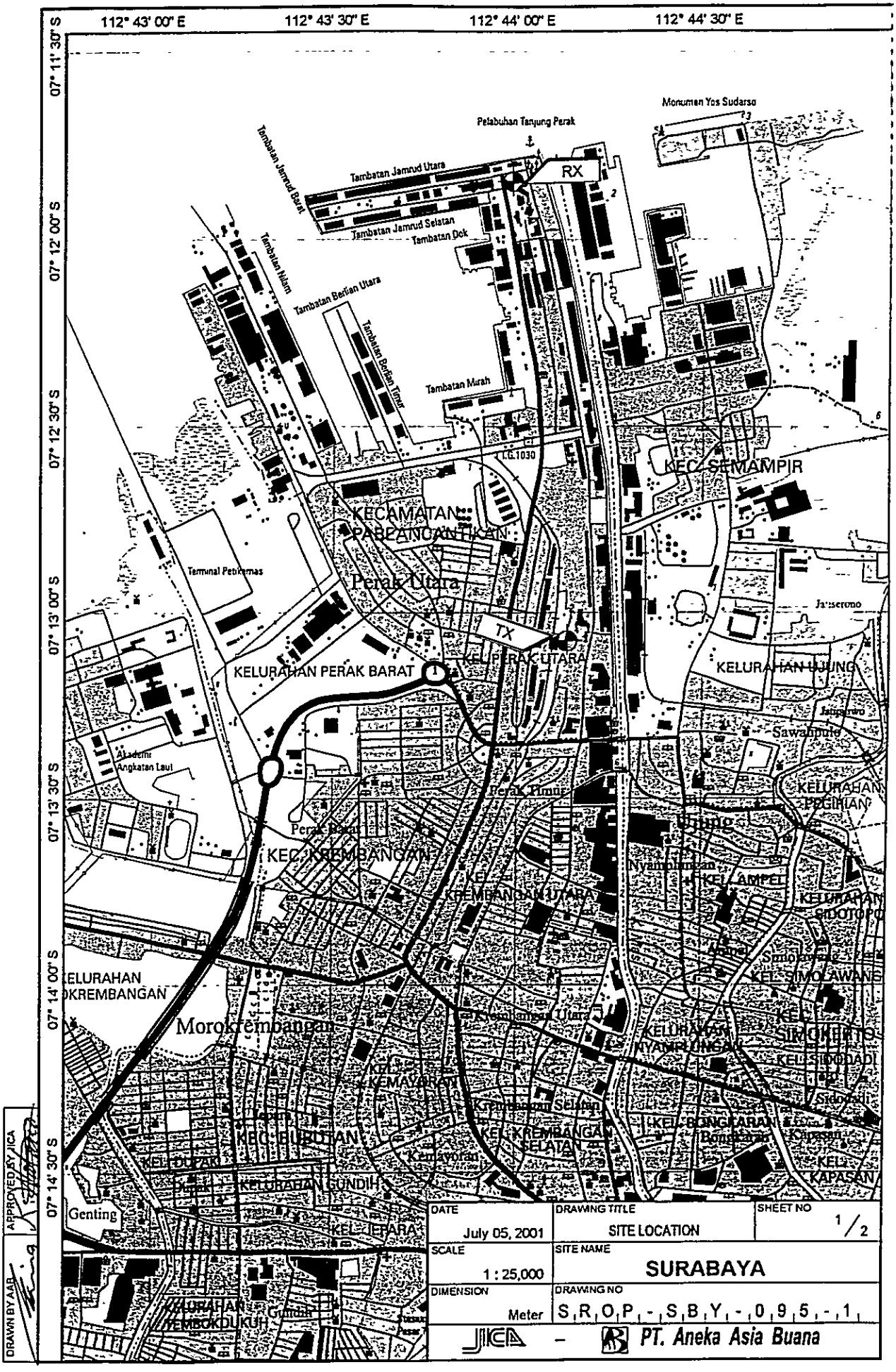
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	500,0	A1A	1000		
2	2 182,0	J3E	1000		
3	2.174,5	F1B	1000		
4	2 187,5	F1B	1000		
5	4 207,5	F1B	1000		
6	4 177,5	F1B	1000		
7	6 215,0	U3E	1000		
8	8 461,0	A1A	1000		
9	8 794,0	J3E	1000		
10	12.704,5	A1A	1000		
11	13 110,0	J3E	1000		
12	17 239,7	A1A	1000		
13	6 316,0	F1B	1000		
14	8 418,0	F1B	1000		
15	16 810,0	F1B	1000		
	VHF Service				
12	Channel-16	F3E	50		
13	Channel-20	F3E	50		
14	Channel-22	F3E	50		
15	Channel-26	F3E	50		
16	Channel-28	F3E	50		
17	Channel-70	G2E	50		

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Surabaya

Call Sign : Mobile Service : PKD
Fix Service : 8AD

	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
	Fix Service				
18	5 316,0	A1A	1000		
19	9 110,0	A1A	1000		
20	10 226,0	J3E	1000		
21	13 444,0	J3E	1000		
22					
23					



DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/2
SCALE: 1 : 25,000	SITE NAME: SURABAYA	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,S,B,Y,-,0,9,5,-,1	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

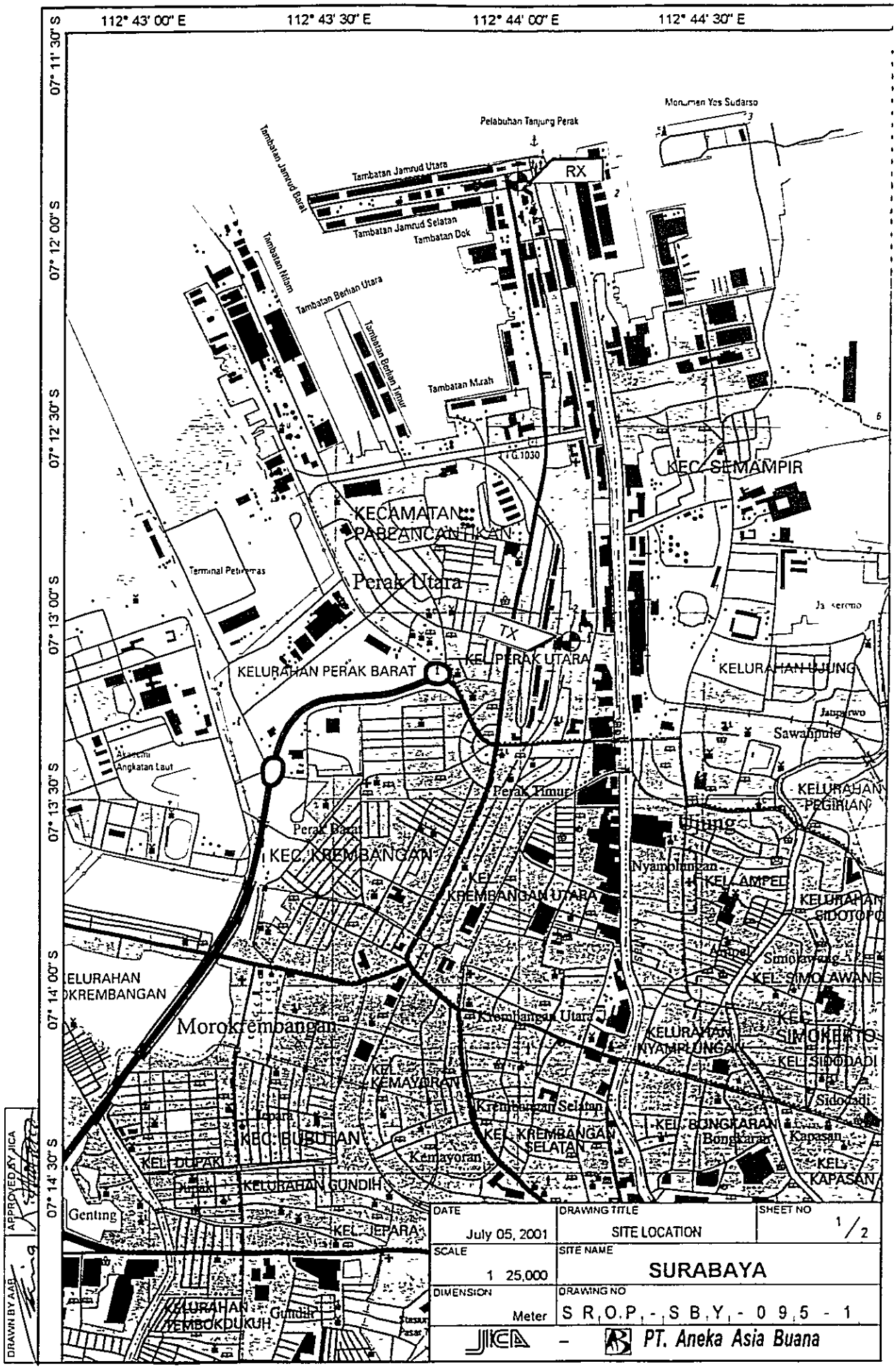
DRAWN BY AAB

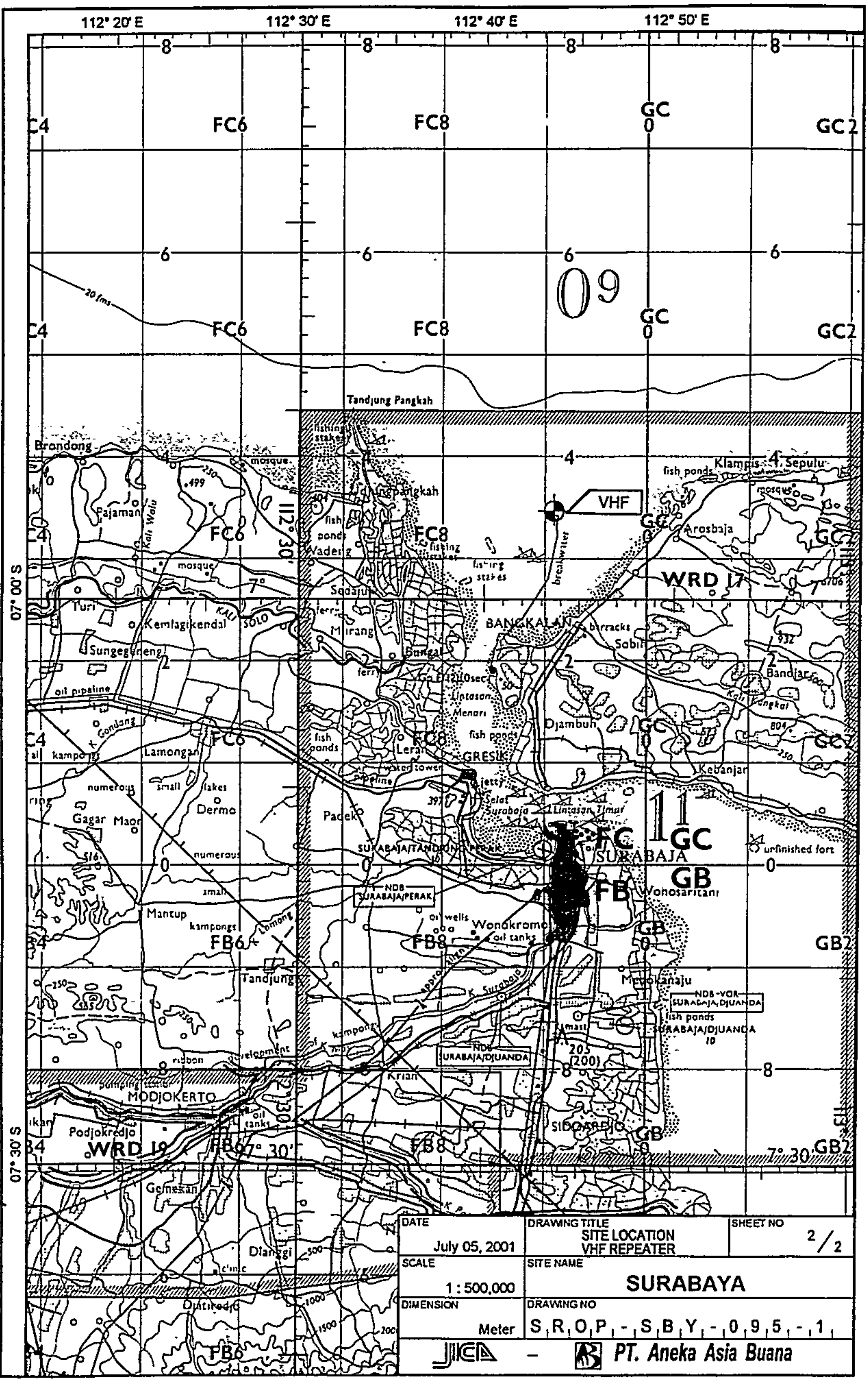
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Surabaya

Call Sign : Mobile Service PKD
Fix Service . 8AD

	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
	Fix Service				
18	5 316 0	A1A	1000		
19	9 110,0	A1A	1000		
20	10 226,0	J3E	1000		
21	13 444,0	J3E	1000		
22					
23					

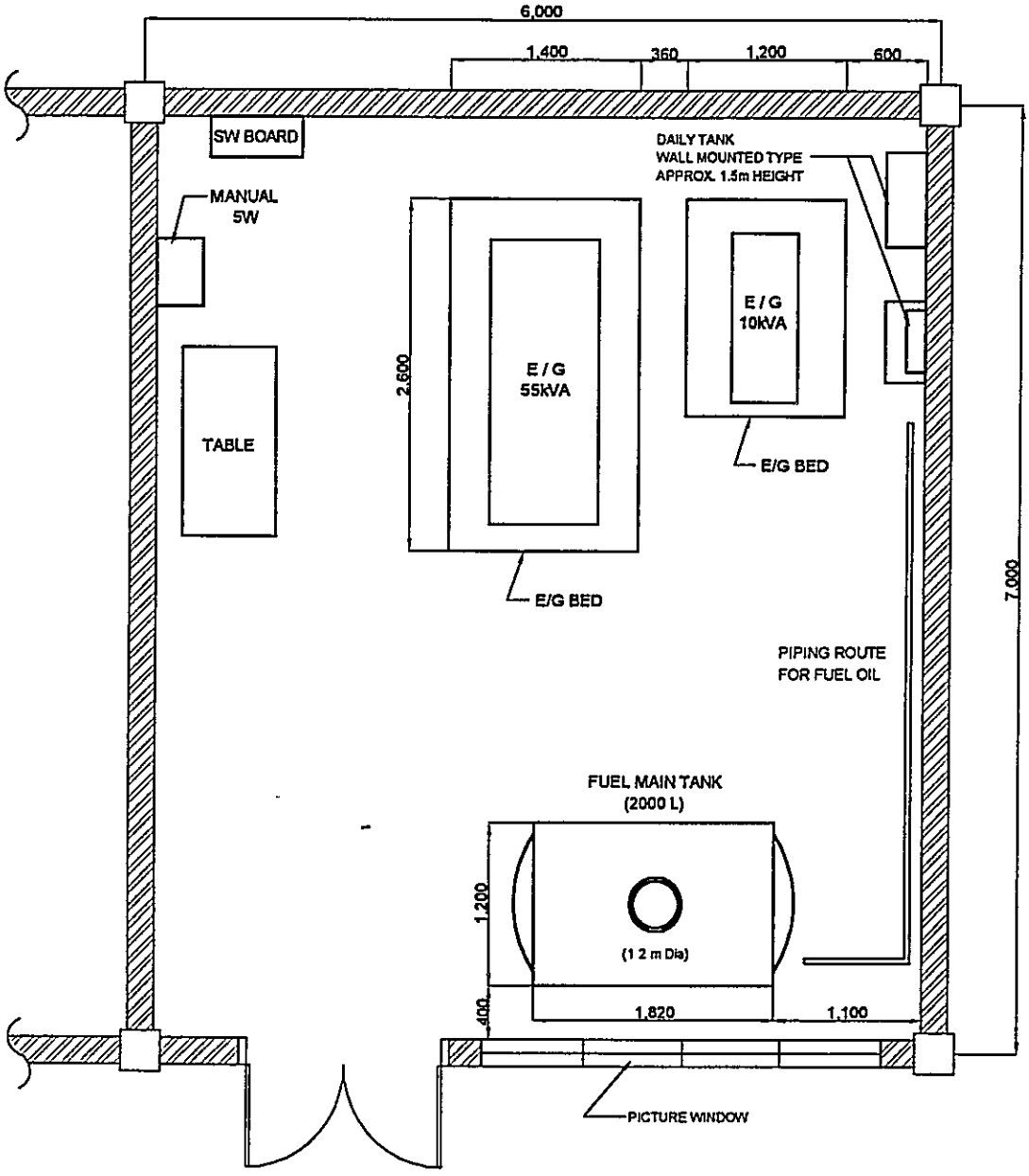

112° 43' 00" E
112° 43' 30" E
112° 44' 00" E
112° 44' 30" E
07° 11' 30" S
07° 12' 00" S
07° 12' 30" S
07° 13' 00" S
07° 13' 30" S
07° 14' 00" S
07° 14' 30" S
Monumen Yos Sudarso
Pelabuhan Tanjung Perak
Tambatan Jamrud Barat
Tambatan Jamrud Utara
Tambatan Jamrud Selatan
Tambatan Dok
RX
Tambatan Nilam
Tambatan Berlian Utara
Tambatan Berlian Timur
Tambatan Murah
G.1030
KEC. SEMAMPIR
KECAMATAN PABEAN CANTIKAN
Terminal Petikemas
Perak Utara
TX
KEL. PERAK UTARA
KELURAHAN PERAK BARAT
KELURAHAN UJUNG
Sawahpulo
Perak Timur
Perak Barat
KEC. KREMBANGAN
KEL. KREMBANGAN UTARA
KELURAHAN PEGIRIAN
Ujung
Nyamplungan
KEL. AMPEL
KELURAHAN SIDOTOPO
KEL. SIMOLAWANG
KELURAHAN KREMBANGAN
Morokrembangan
Kremhangan Utara
KELURAHAN NYAMPLUNGAN
KEL. SIMOKERTO
KEL. KEMAYORAN
KEL. SIDODADI
Kremhangan Selatan
KEL. KREMBANGAN SELATAN
KEL. BONGKARAN
KEC. BUBUTAN
Kemayoran
Bongkaran
Kapasan
KEL. KAPASAN
KEL. DUPAK
KELURAHAN GUNDIH
Genting
KEL. TEPARA
KELURAHAN PEMBOKDUKUH
Gundih
APPROVED BY JICA
DRAWN BY AAB
DATE
July 05, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/2
SCALE
1 25,000
SITE NAME
SURABAYA
DIMENSION
Meter
DRAWING NO
S R,O.P, - S B,Y, - 0 9,5 - 1
JICA
PT. Aneka Asia Buana



DATE	DRAWING TITLE	SHEET NO
July 05, 2001	SITE LOCATION VHF REPEATER	2/2
SCALE	SITE NAME	
1 : 500,000	SURABAYA	
DIMENSION	DRAWING NO	
Meter	S R O P - S B Y - 0 9 5 - 1	

JICA - PT. Aneka Asia Buana

DRAWN BY AAB | APPROVED BY JICA



LEGEND

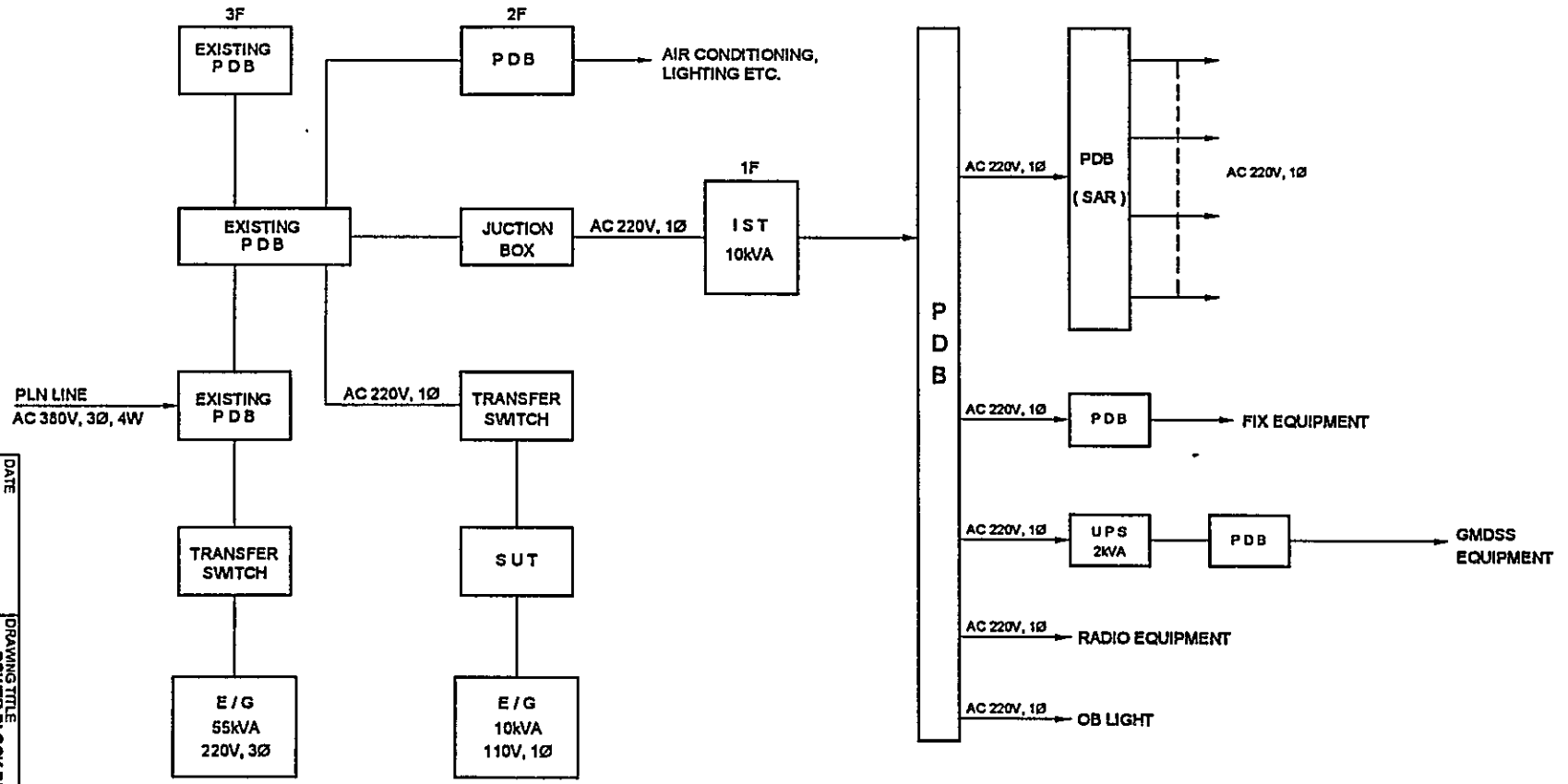
E/G ENGINE GENERATOR
kVA KILO VOLT AMPERE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 03, 2001	DRAWING TITLE: E/G FLOOR LAYOUT FOR RX STATION	SHEET NO: 1 / 1
SCALE: 1 : 50	SITE NAME: SURABAYA	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,S,B,Y,-,0,9,5,-,4,R	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB | APPROVED BY JICA



LEGEND

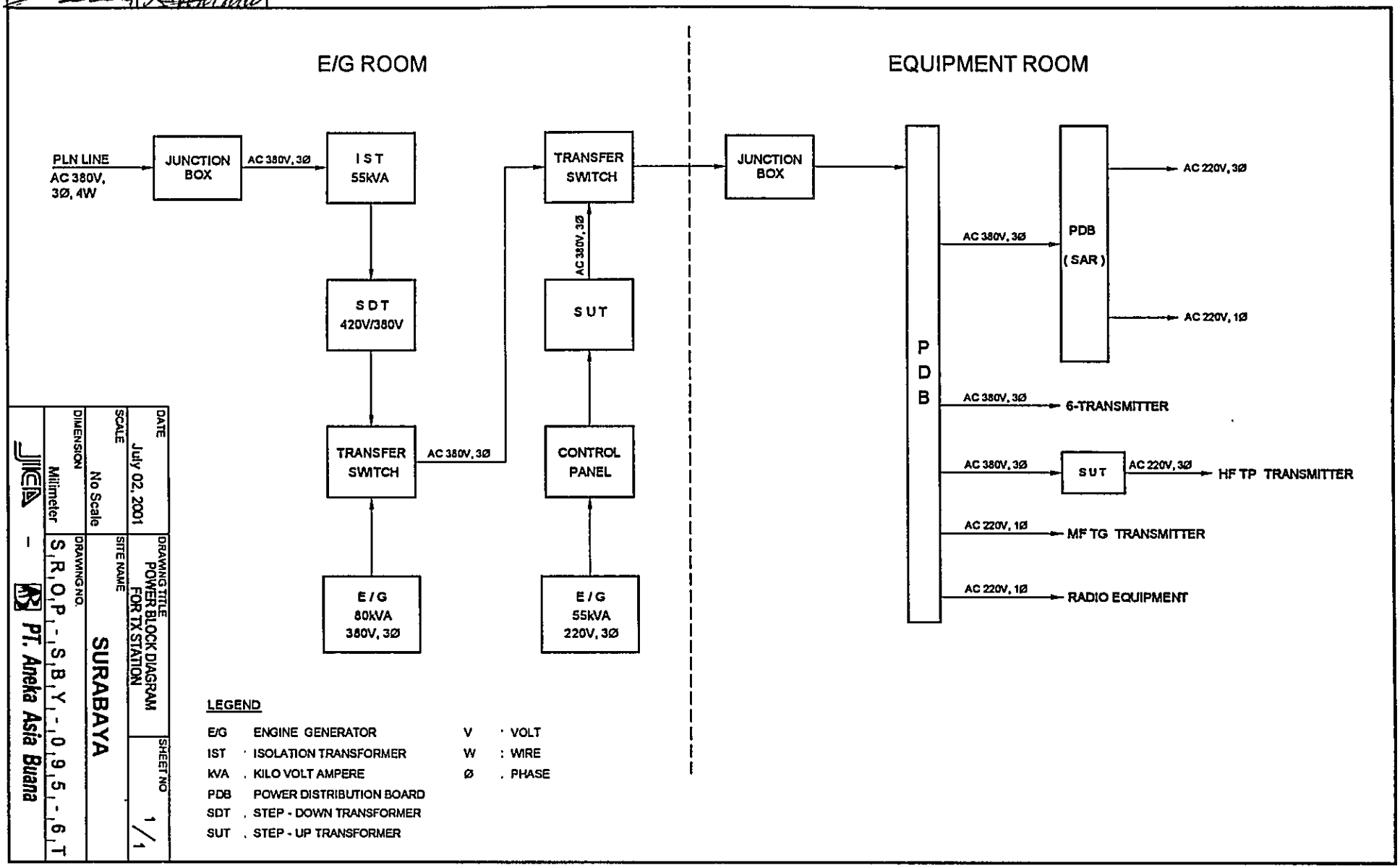
E/G	: ENGINE GENERATOR	UPS	: UNINTERRUPTED POWER SUPPLY
IST	: ISOLATION TRANSFORMER	V	: VOLT
kVA	. KILO VOLT AMPERE	W	: WIRE
PDB	. POWER DISTRIBUTION BOARD	Ø	: PHASE

JICA

PT. Aneka Asia Buana

DIMENSION	Milimeter
SCALE	No Scale
DATE	July 02, 2001
DRAWING NO	S R O P - S B Y - 0 9 5 - 6 R
SITE NAME	SURABAYA
DRAWING TITLE	POWER BLOCK DIAGRAM FOR RX STATION
SHEET NO.	1 / 1

DRAWN BY AAB | APPROVED BY JICA

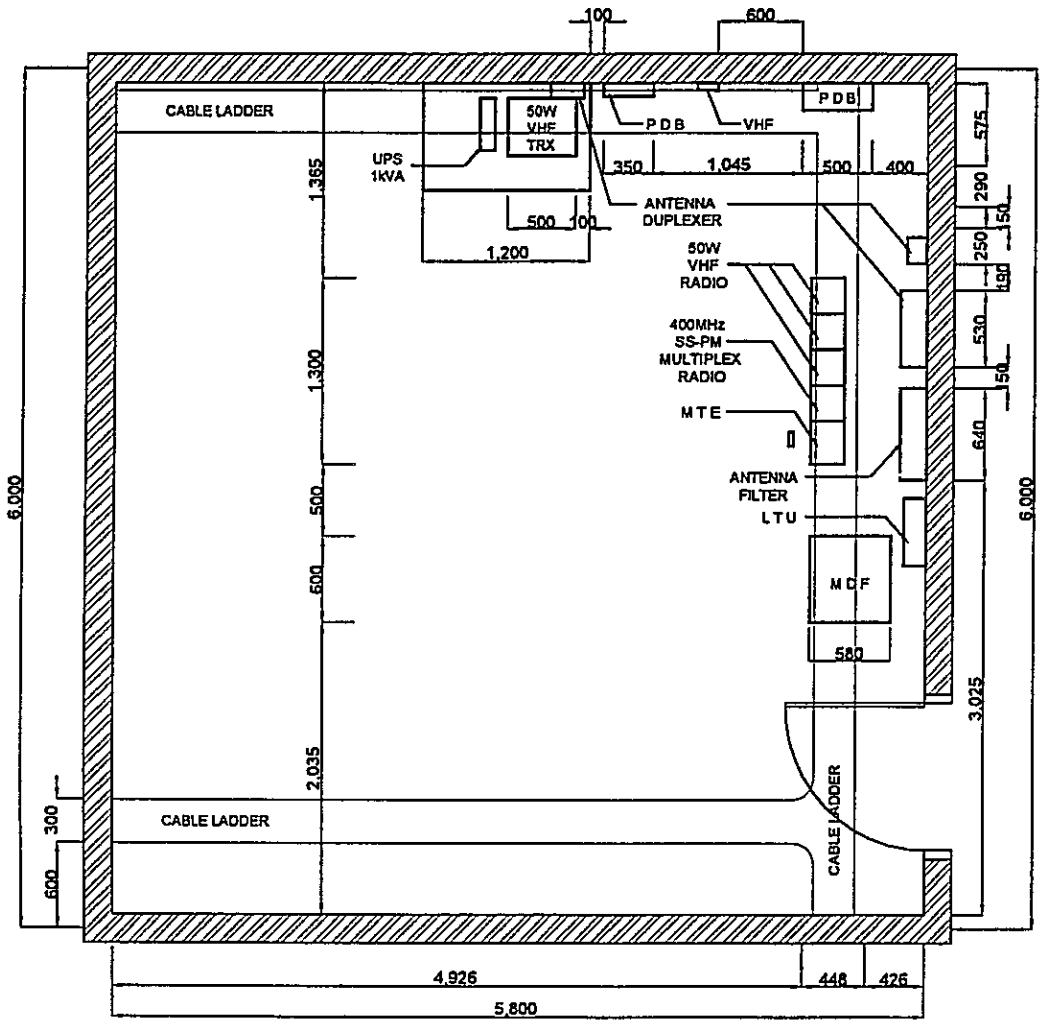


LEGEND

E/G	ENGINE GENERATOR	V	VOLT
IST	ISOLATION TRANSFORMER	W	WIRE
kVA	KILO VOLT AMPERE	Ø	PHASE
PDB	POWER DISTRIBUTION BOARD		
SDT	STEP - DOWN TRANSFORMER		
SUT	STEP - UP TRANSFORMER		

JICA – PT. Aneka Asia Buana

DIMENSION	Milimeter
SCALE	No Scale
DATE	July 02, 2001
DRAWING NO.	S,R,O,P,-,S,B,Y,-,0,9,5,-,6,T
SITE NAME	SURABAYA
DRAWING TITLE	POWER BLOCK DIAGRAM FOR TX STATION
SHEET NO	1/1



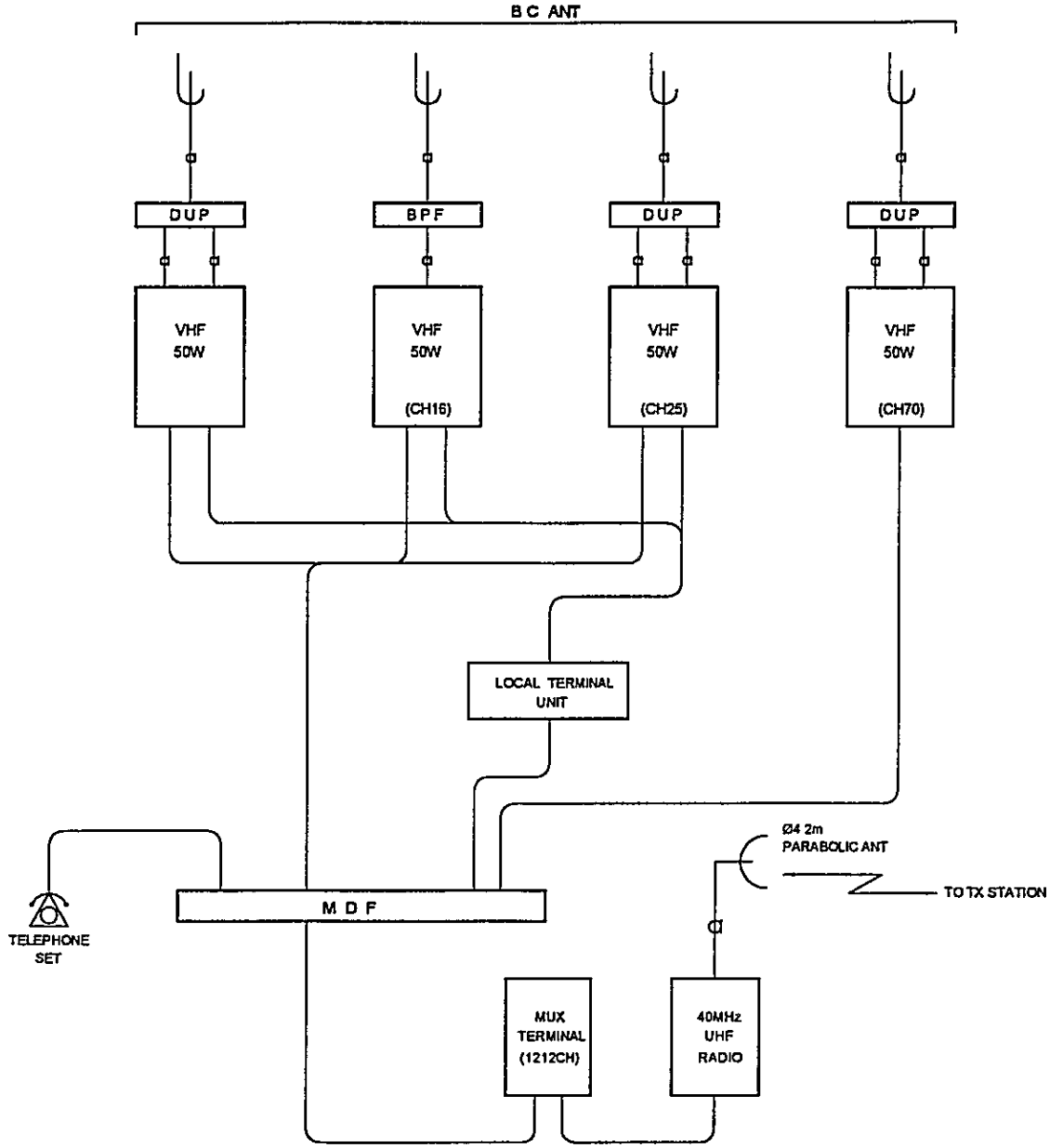
LEGEND

kVA	KILO VOLT AMPERE
LTU	LOCAL TERMINAL UNIT
MDF	MAIN DISTRIBUTION FRAME
MTE	MULTIPLEX TERMINAL EQUIPMENT
PDB	POWER DISTRIBUTION BOARD
TRX	TRANSCEIVER (ING)
UPS	UNINTERRUPTED POWER SUPPLY
VHF	VERY HIGH FREQUENCY

APPROVED BY JICA:

DRAWN BY AAB

DATE: July 03, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT FOR VHF REPEATER STATION	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: SURABAYA	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,S,B,Y,-,0,9,5,-,3,	
JICA –	PT. Aneka Asia Buana	



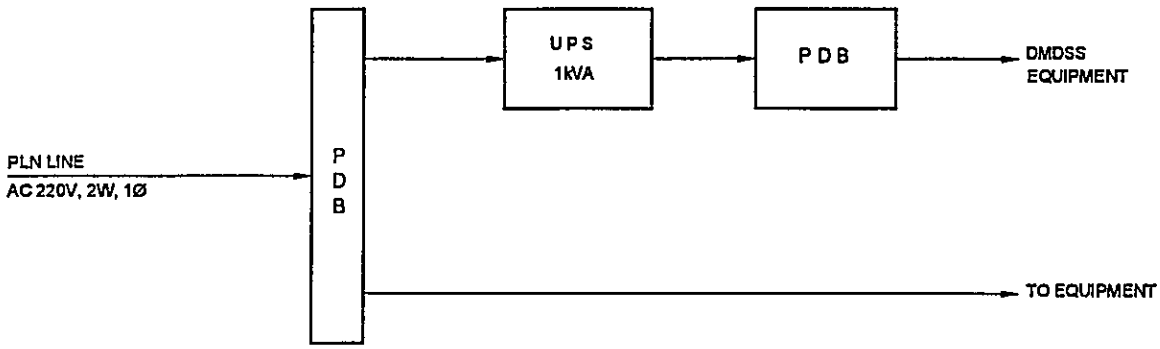
LEGEND

ANT	ANTENNA
BC	BROWN CARDIOIC
BPF	BAND PASS FILTER
DUP	DUPLEXER
MDF	MAIN DISTRIBUTION FRAME
MUX	MULTIPLEXER
UHF	ULTRA HIGH FREQUENCY
VHF	VERY HIGH FREQUENCY

APPROVED BY JICA :

DRAWN BY AAB

DATE: July 03, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM FOR VHF REPEATER STATION	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SURABAYA	
DIMENSION: Milimeter	DRAWING NO.: SROP-SBY-095-5	
JICA –	PT. Aneka Asia Buana	



DRAWN BY AAB

APPROVED BY JICA

LEGEND

AC	ALTERNATING CURRENT
kVA	KILO VOLT AMPERE
PDB	POWER DISTRIBUTION BOARD
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLT
W	WIRE
Ø	PHASE

DATE: July 02, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM FOR VHF REPEATERSTATION	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SURABAYA	
DIMENSION: Milimeter	DRAWING NO.: SROP-SBY-095-6	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station

Panarukan

(Coast Station No. 96)

Table of Content

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	PANARUKAN		
CLASS	4th-A	NO.	96

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan, Panarukan			113° 56′ 02″ E	07° 41′ 45″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Surabaya [Taking time: 1.00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car to Panarukan [Taking time: 4.00 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	4.00 M		Telephone Lines	☑ Feeder Cable Way	☐
Land area	m²		☐ Lines	☑ City water	☐

3.2 Building Conditions

Constructions	
Num of story	One
Structure	Concrete
Type of roof	Roof Tile
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Mortar
Flooring	Mortar
Room Area (m²)	
Operation room	18.00
E / G room	64.00
Remark	Office Building belong to PT. Pelindo

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.9	7/12

Quality of PLN source		Existing Power Conditions	
Fluctuations	V ± %	Good	Bad
Availability of power per day	24 Hours	☑	☐ Power Supply System
Power interruption /month	3 Times	☑	☐ Operations of E/G
Total interpt. hours /month	3 Hours	☑	☐ Operations of AVR
Max. interpt. hours at once	2 Hours	**Capacity of fuel for engine**	
		Day tank	30 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	1	
Operator (skilled)	1 ()	()
Technician (skilled)	()	()
Administrator		
Total	2	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	PANARUKAN		
CLASS	4th-A	NO.	96

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: Panarukan

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		MF/HF Transceiver	SSB-130	5911	PYE	1976			Good
2		MF/HF Transceiver	SSB-7727	50600	RFC	1981			Good
3		MF/HF Transceiver	IC-M710	04294	ICOM	1998			Good
1-2		**Receiver**							
1		Receiver	NRD/130G	C-20960	JRC	1976			
2		Receiver	FRC-7700	01011	Yaesu	1981			Damaged
1-3		**VHF System**							
1		VHF Transceiver		42568	Phillips	1976			Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		Dipole Antenna				1976			Good
2		Whip Antenna				1976			Good
3		Dipole Antenna				1998			Good
3		**Power Supply Equipment**							
3-1		**Step-Up Transformer**							
1		Step-Up/Down	OR-1500		Instant	1981			Good
3-2		**UPS & AVR System**							
1		Power Supply	PS-830		VDO	1981			Good
2		Accu Charger	SW/15A		GNT	1976			Good
3		Accu Charger	40 A		Delta	1998			Good
4		Power Supply	DM340MU		Alinco	1998			Good
3-3		**Engine Generator**							
1		Engine	ES-79	247453150	Dynav	1976			Good
2		Engine	KD-120	HDA-00051	Kukje	1996			Good
3		Generator	T-295	74479	Dynav	1976			Good
4		Generator	FA-5	0468911		1996			Good

INVENTORY

Site Name: Panarukan

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		**Measuring Equipment**							
1		AVO Meter	M-8	5170-211	England	1976			Good
2		Transmitter Tester			Grundig	1976			Good
3		Grip Dip Meter			USA	1976			Good
4		Signal Vervolger	SV-41	940501	Germany	1976			Good
5		Bridge Meger Tester	BR-3	2056490	England	1976			Good
6		Multitester			Sanwa	1994			Good

STATUS OF TROUBLES

SITE NAME : PANARUKAN **PRN-96-(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: If the equipment damage, it will be repaired in ETP/Coast Station Surabaya Work Shop			

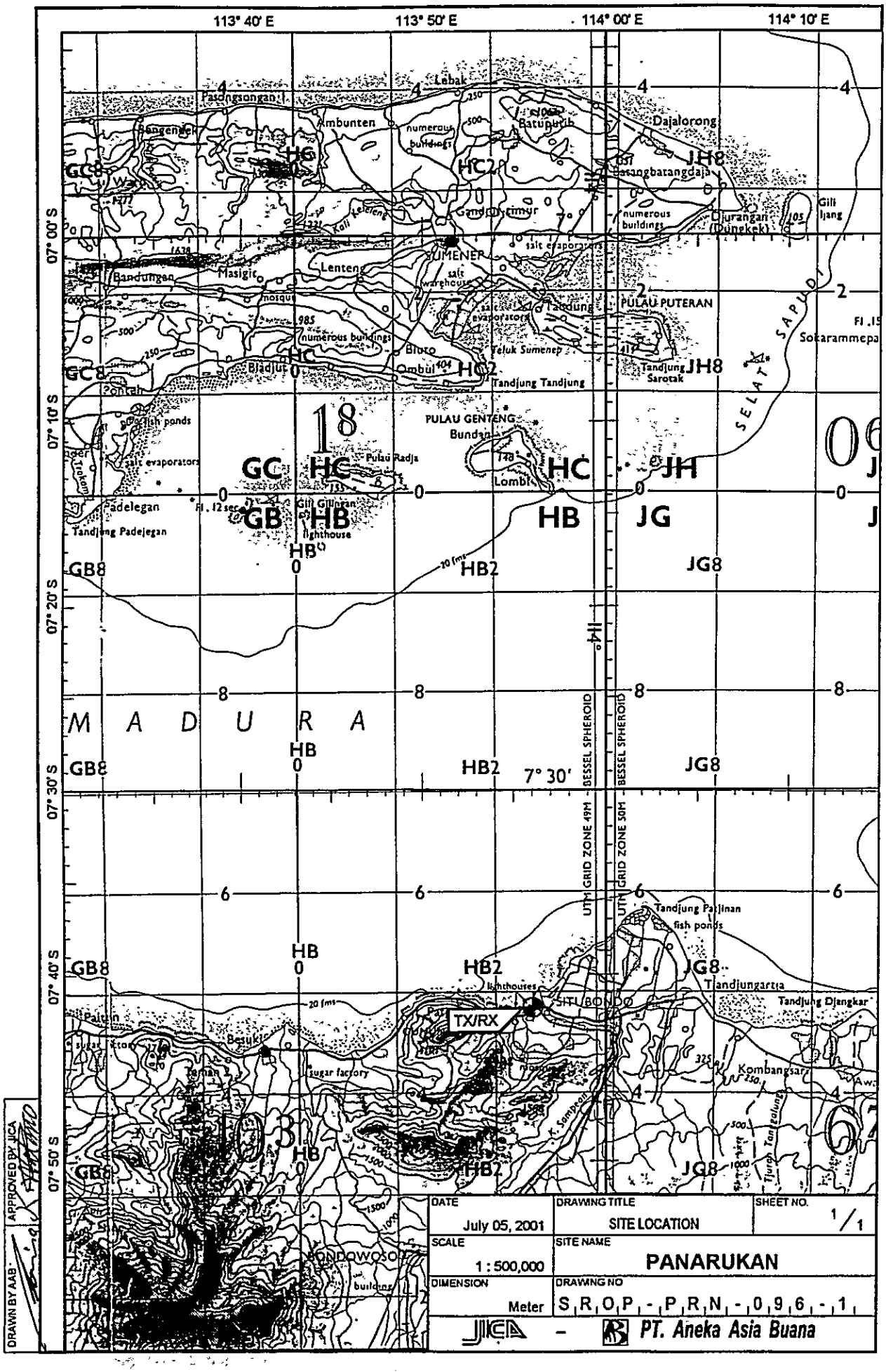
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Panarukan

PRN-096-(1/1)

Call Sign : Mobile Service : PKD.2
Fix Service : 8AD3

	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	2 182,0	J3E	100		
4	6 215,0	J3E	100		
	VHF Service				
5	Channel-12	G3E	20		
6	Channel-13	G3E	20		
7	Channel-14	G3E	20		
8	Channel-16	G3E	20		
	Fix Service				
9	5 316,0	J3E	100		
10	5 165,0	J3E	100		
11	9 950,0	J3E	100		
12	10 226,0	J3E	100		
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



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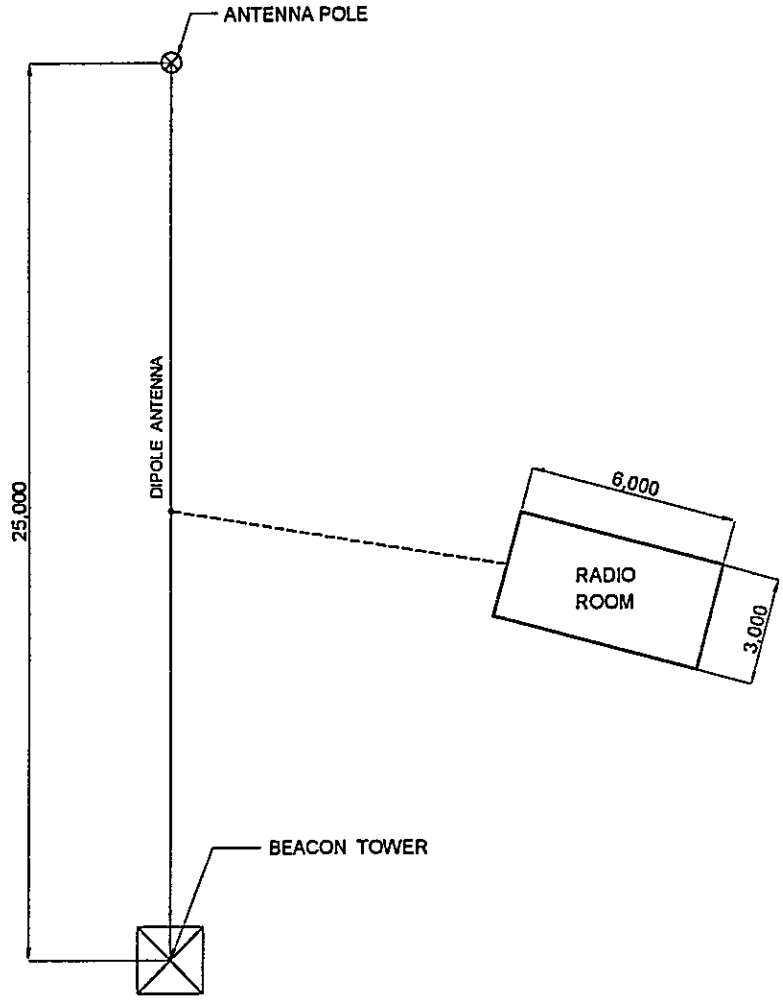
DIMENSION: Meter	DRAWING NO: S R O P - P R N - 0 9 6 - 1	

APPROVED BY JICA

DRAWN BY AAB

JICA – PT. Aneka Asia Buana



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APPROVED BY JICA

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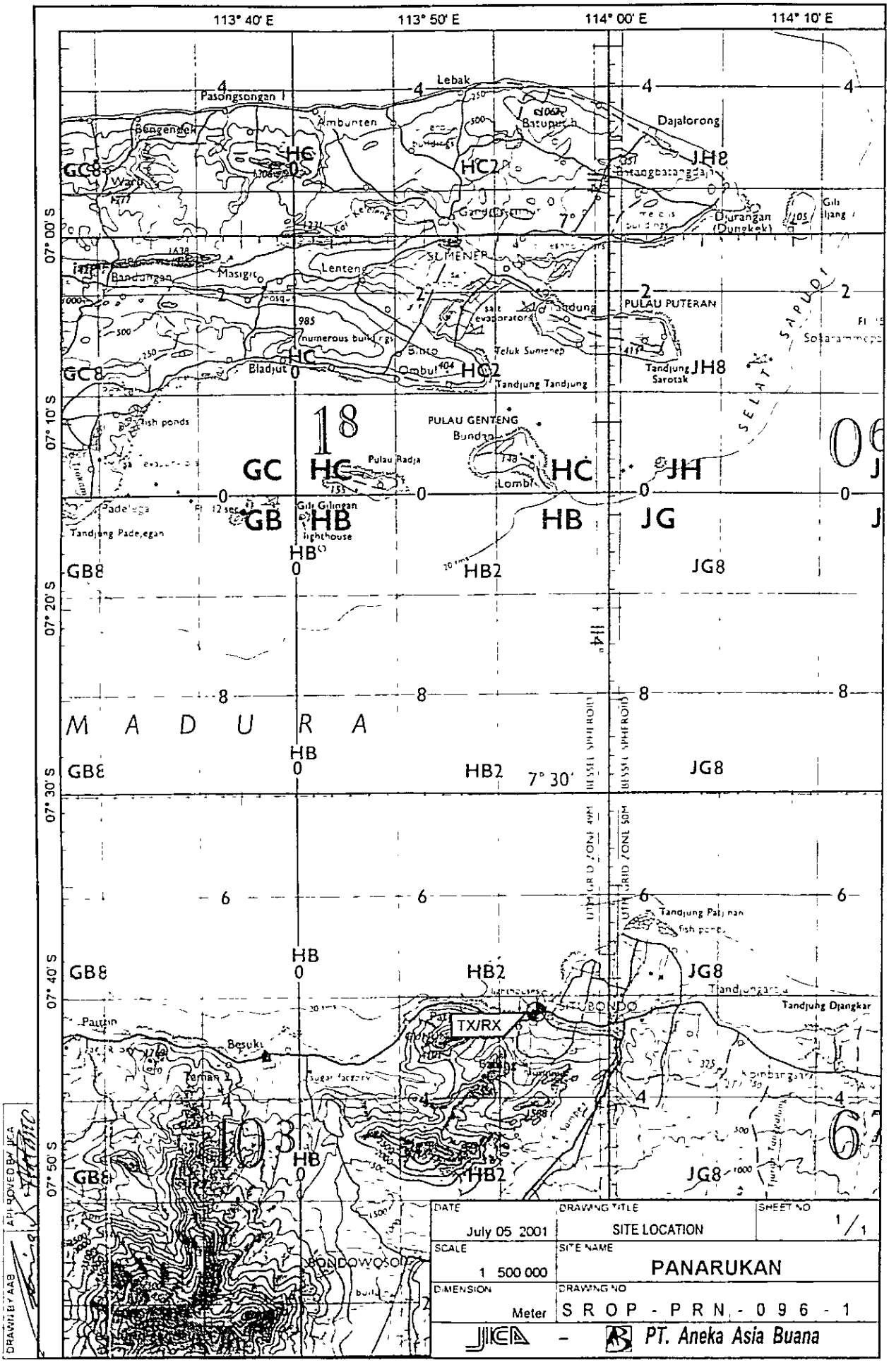
JICA -	PT. Aneka Asia Buana	



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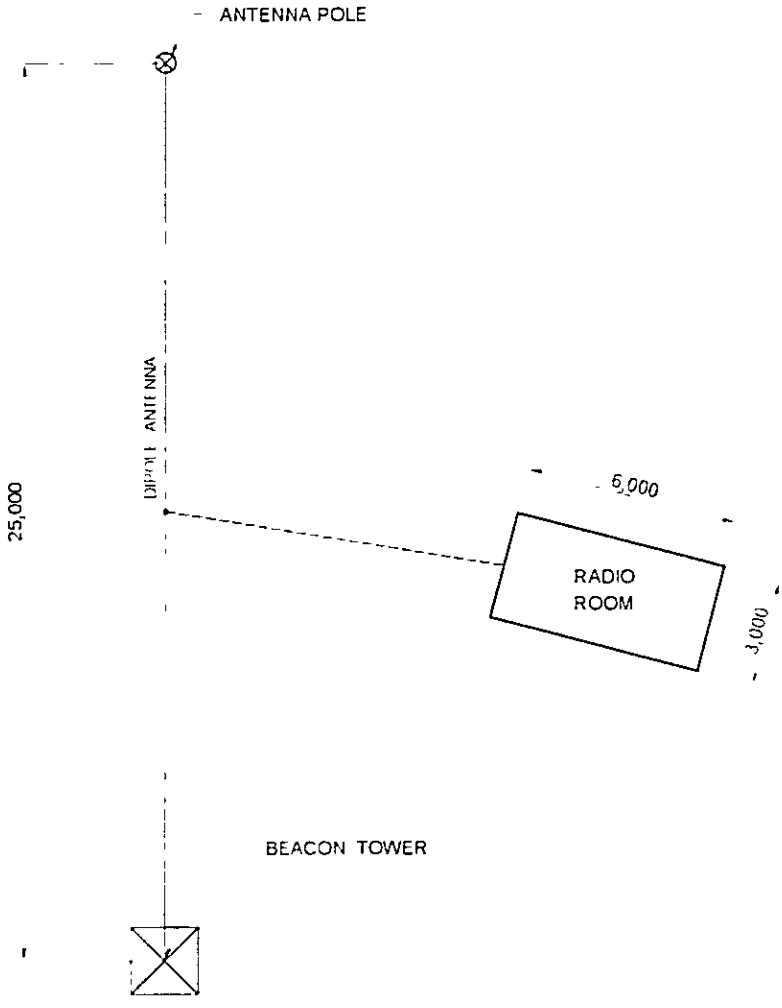
DIMENSION: Meter	DRAWING NO: S R O P - P R N - 0 9 6 - 1	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



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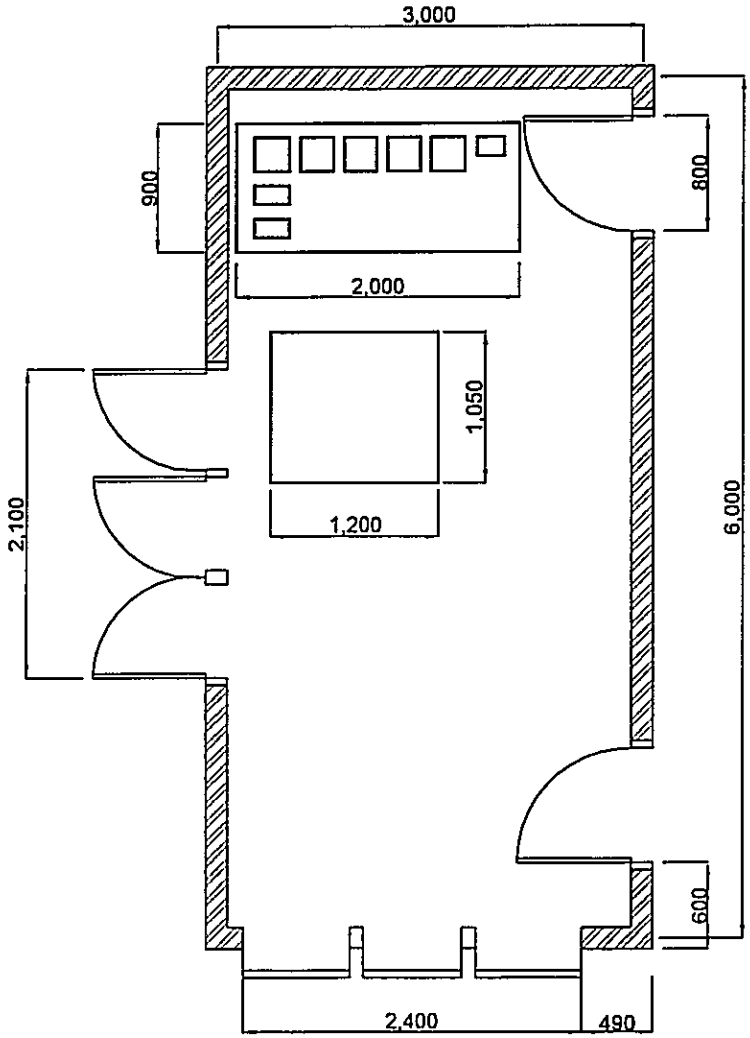
JICA – AB PT. Aneka Asia Buana		



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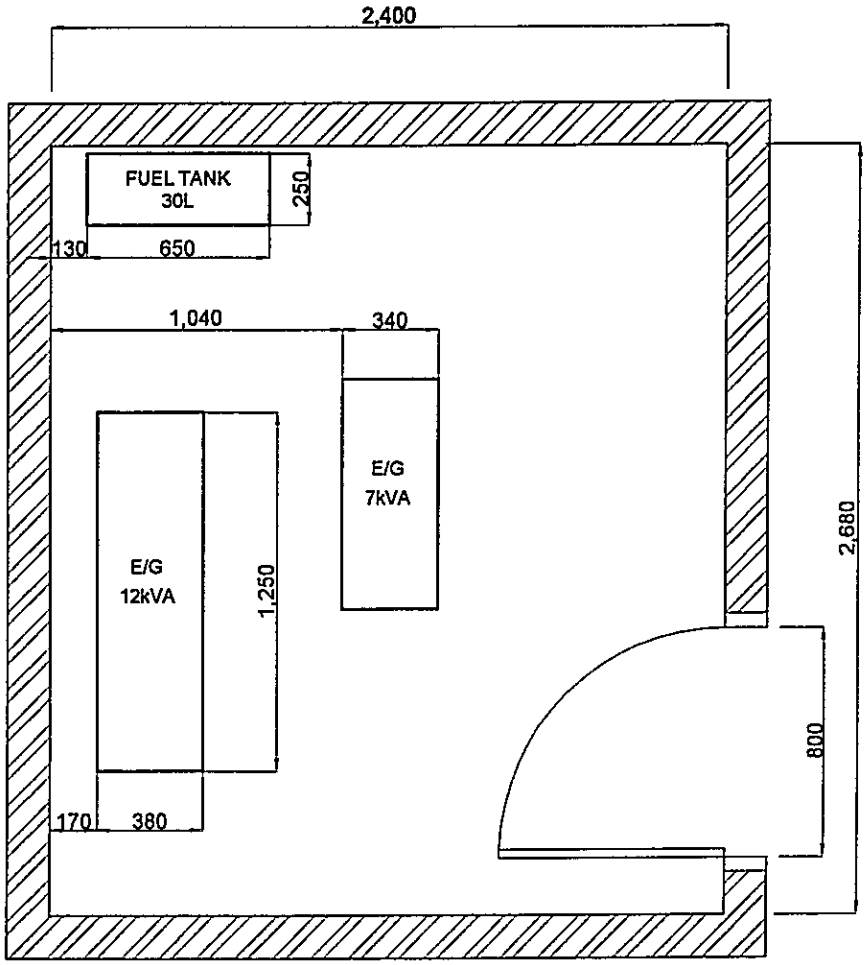
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,P,N,R,-,0,9,6,-,3,	
JICA – AB PT. Aneka Asia Buana		

DRAWN BY AAB: APPROVED BY JICA



LEGEND

E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE
L : LITER

DATE: June 28, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: PANARUKAN	
DIMENSION: Milimeter	DRAWING NO: SROP-PNR-096-4	
JICA –	PT. Aneka Asia Buana	

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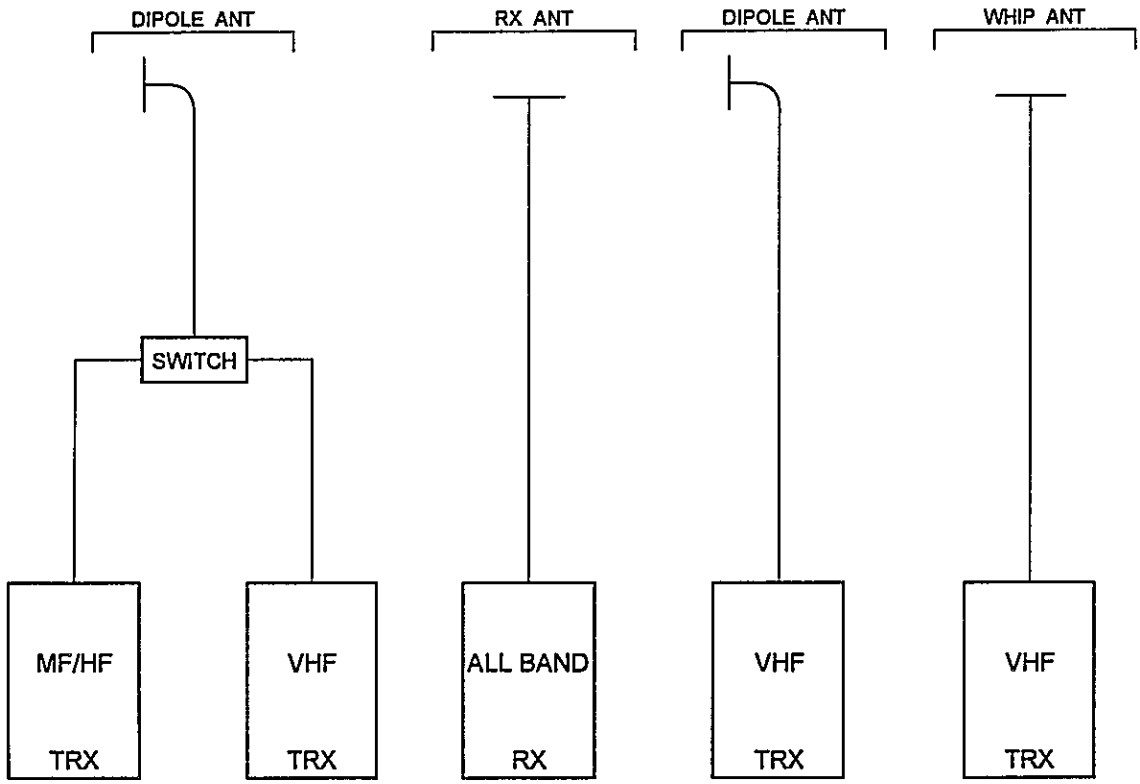


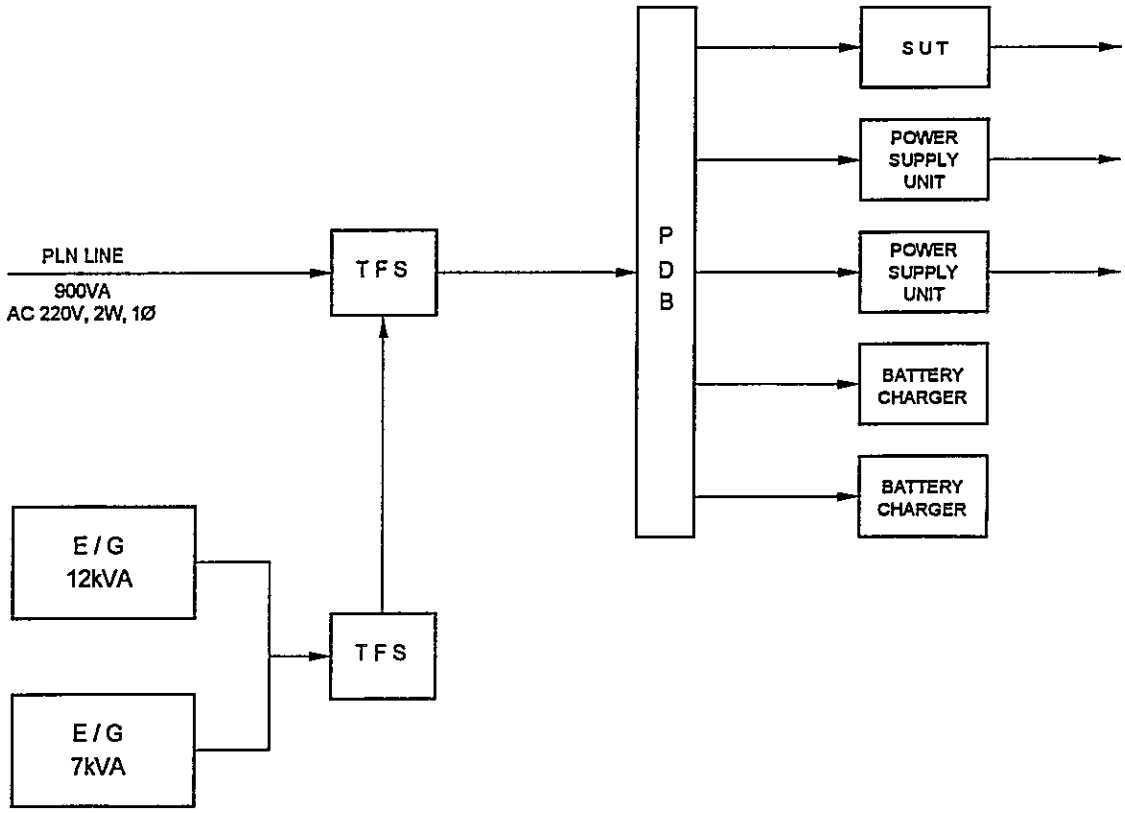
LEGEND

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

DATE: June 28, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PANARUKAN	
DIMENSION: Milimeter	DRAWING NO: SROP-PNR-096-5	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



LEGEND

AC	ALTERNATING CURRENT
E/G	ENGINE GENERATOR
kVA	KILO VOLT AMPERE
PDB	POWER DISTRIBUTION BOARD
SUT	STEP - UP TRANSFORMER
TFS	TRANSFER SWITCH
V	VOLT
W	WIRE
Ø	PHASE

DRAWN BY AAB: APPROVED BY JICA:

DATE: June 28, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PANARUKAN	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,P,R,N,-,0,9,6,-,6.	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station

Kali Anget

(Coast Station No. 97)

Table of Content

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	KALI ANGET		
CLASS	4th-A	NO.	97

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Gresik Putih, Kalianget			113° 58′ 42″ E	07° 04′ 05″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Surabaya	[Taking time:	1:00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Ship	to Kamal	[Taking time:	0.30 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Car	to Kalianget	[Taking time	3.00 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			☐	☐ Feeder Cable Way
Altitude	M		**Telephone Lines**	☐	☐ City water
Land area	273.00 m²		☐ Lines		

3.2 Building Conditions

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

Room Area (m²)	
Operation room	7.84
E / G room	4.00

Remark

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.45	3

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	8 Times	
Total interpt. hours /month	15 Hours	
Max. interpt. hours at once	8 Hours	

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

Capacity of fuel for engine	
Day tank	5 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 in Surabaya
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)	1 ()	()
Technician (skilled)	()	()
Administrator		
Total	2	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	KALI ANGET		
CLASS	4th-A	NO.	97

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: Kalianget

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		Transmitter	IC-M700	01277	ICOM	1989			Good
2		Transceiver	FT-300	08204027	Yaesu	1994			Damaged
3		Transceiver	FT-80C	400282	Yaesu	1994			Damaged
1-2		**Receiver**							
1		Receiver	FRG-7700	4F300116	Yaesu	1994			Good
1-3		**VHF System**							
1		VHF Transceiver	FTC-1540A	08305004	Yaesu	1982			Good
2		**Tower & Antenna System**							
2-1		**Antenna Selector**							
1		Antenna Tuner	AT-120	-	ICOM	1989			Good
2		Antenna Tuner	NT-616	006495	K'nishi	1994			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply	-	6213	METRONIX	1982			Good
2		Power Supply	PS-8930	-	VEDIO	1989			Damaged
3		Power Supply	DM-140MVZ	-	BELL	1994			Good
4		**Measuring Equipment**							
1		AVO Meter	SP-68		Heles	1998			Damaged

STATUS OF TROUBLES

SITE NAME : KALI ANGET **KAT-97-(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: Maintenance and repairing handle by Surabaya Coast station			

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Kali Anget

KAT-097-(1/1)

Call Sign : Mobile Service : PKD.36
Fix Service : 8AC5

	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	6.215,0	J3E	100		
2	2 182,0	J3E	100		
	VHF Service				
3	Channel-16	G3E	20		
	Fix Service				
4	5 316,0	J3E	150		
5					
6					
7					
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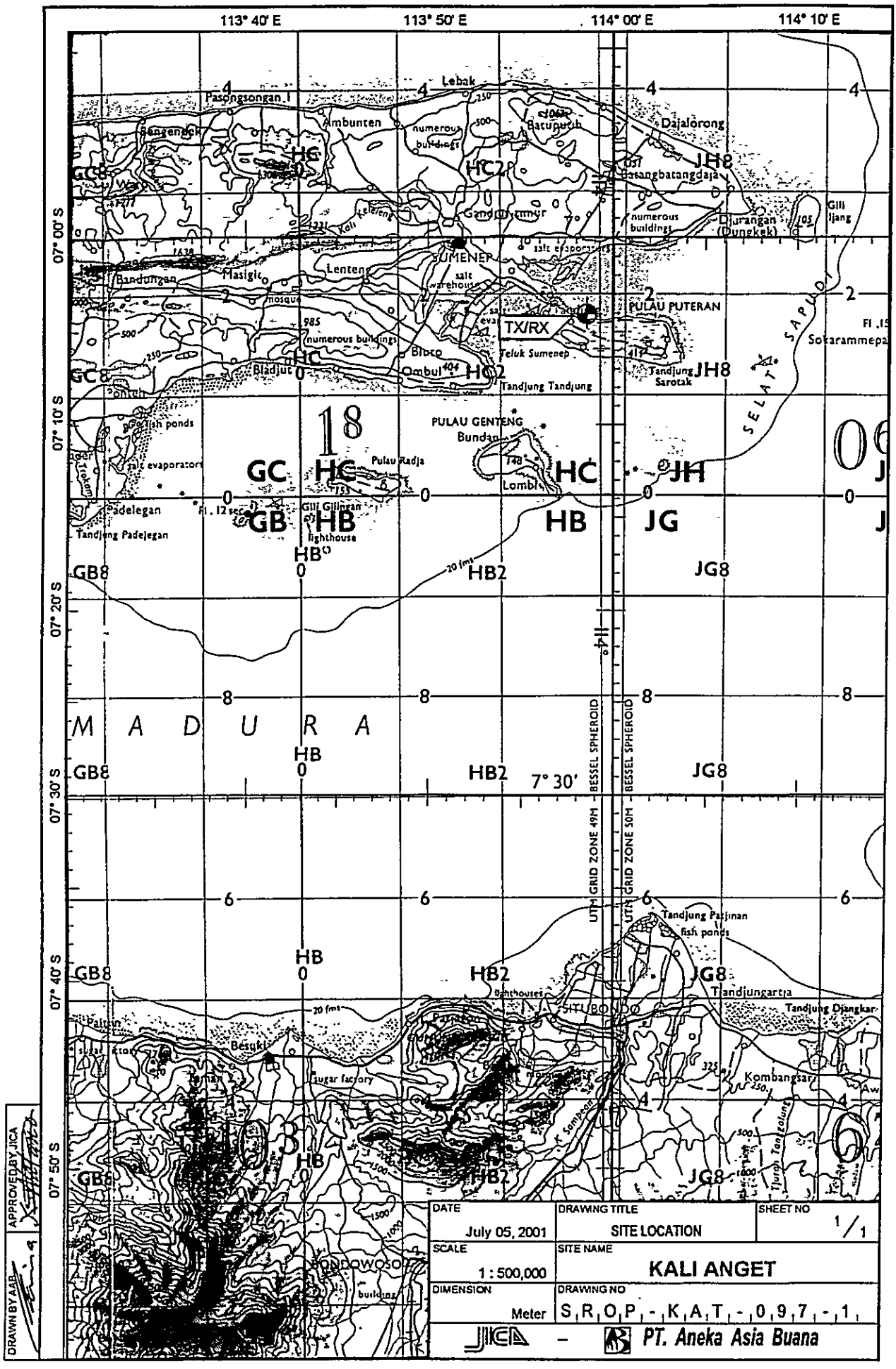

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DIMENSION: Meter	DRAWING NO: S R O P - K A T - 0 9 7 - 1	
JICA – PT. Aneka Asia Buana		

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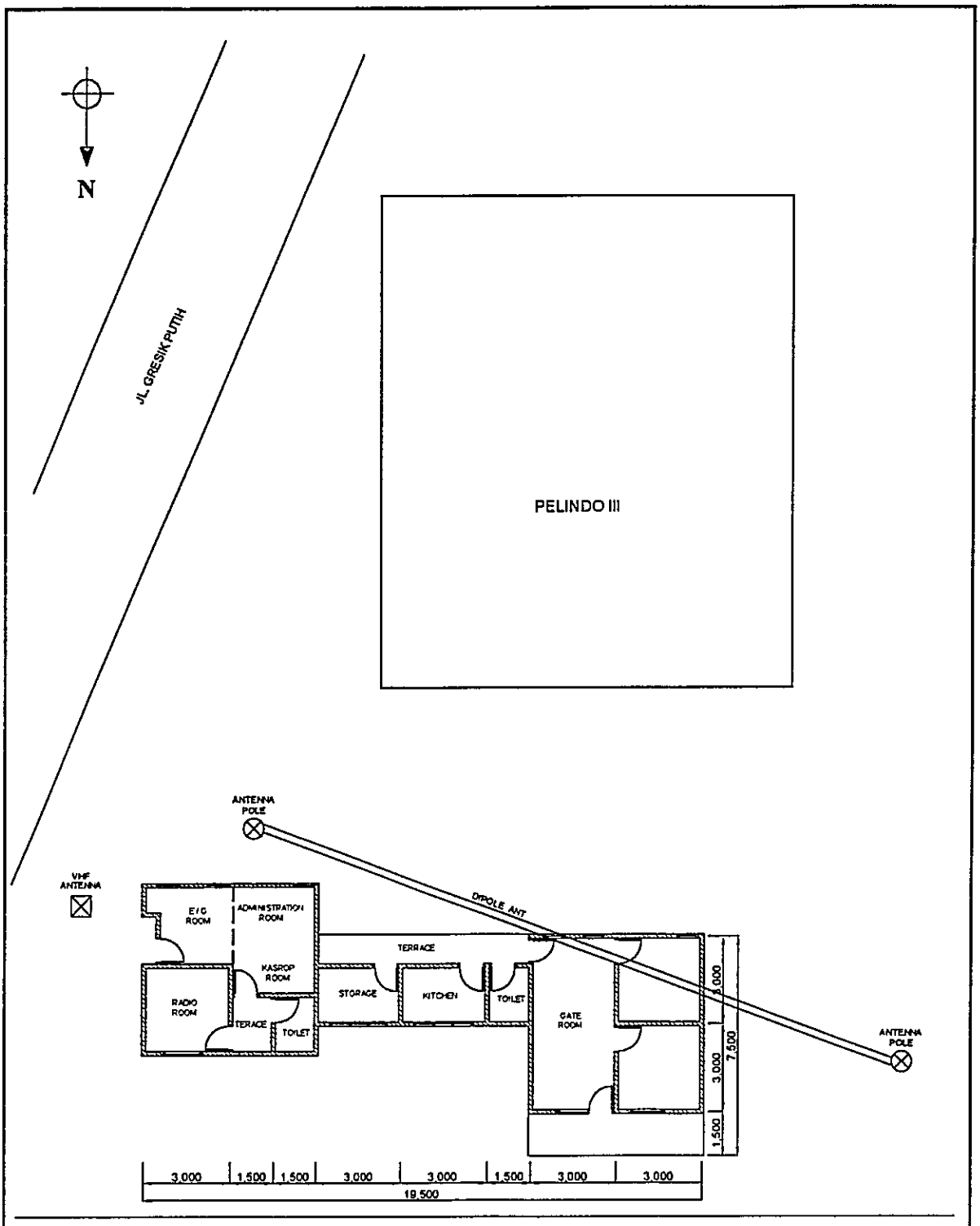

APPROVED BY JICA

DRAWN BY AAB

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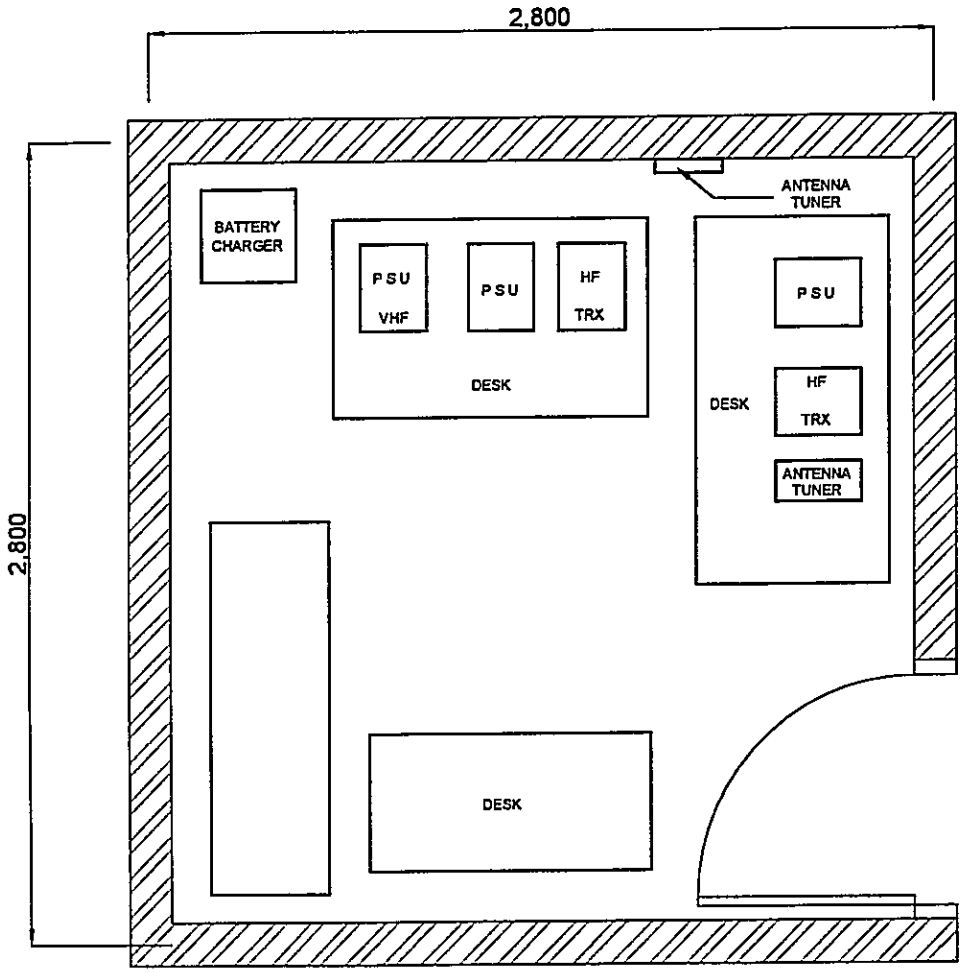
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,A,T,-,0,9,7,-,2,	
JICA –	PT. Aneka Asia Buana	



LEGEND

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

DATE: June 28, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: KALIANGET	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,A,T,-,0,9,7,-,3,	
JICA –	PT. Aneka Asia Buana	

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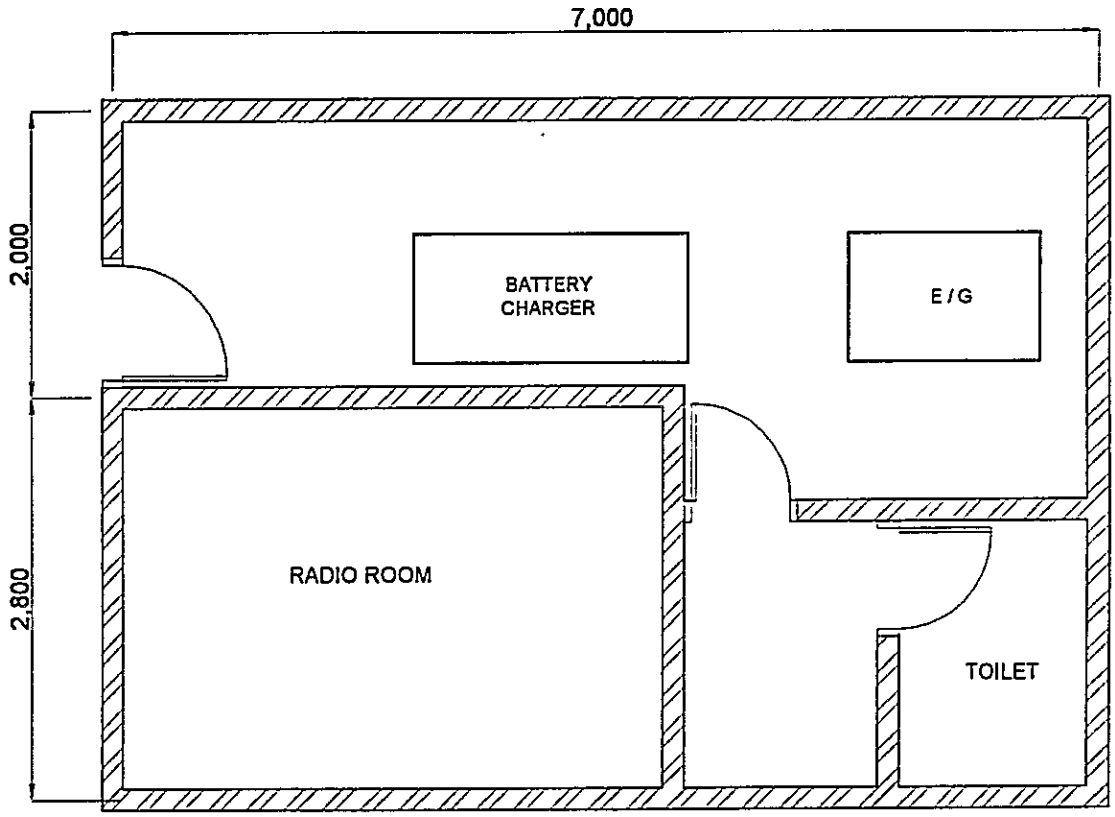
APPROVED BY JICA

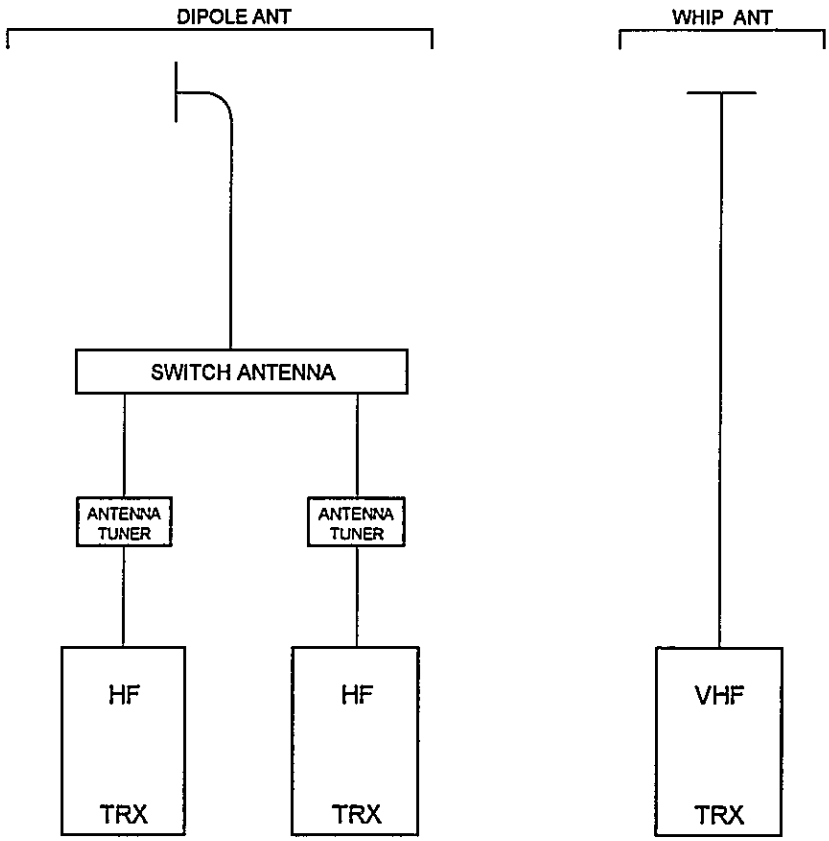


LEGEND

E/G . ENGINE GENERATOR

DATE: June 28, 2001	DRAWING TITLE: E/G ROOM LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: KALIANGET	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,A,T,-,0,9,7,-,4,	
JICA -	PT. Aneka Asia Buana	

DRAWN BY AAB : APPROVED BY JICA :



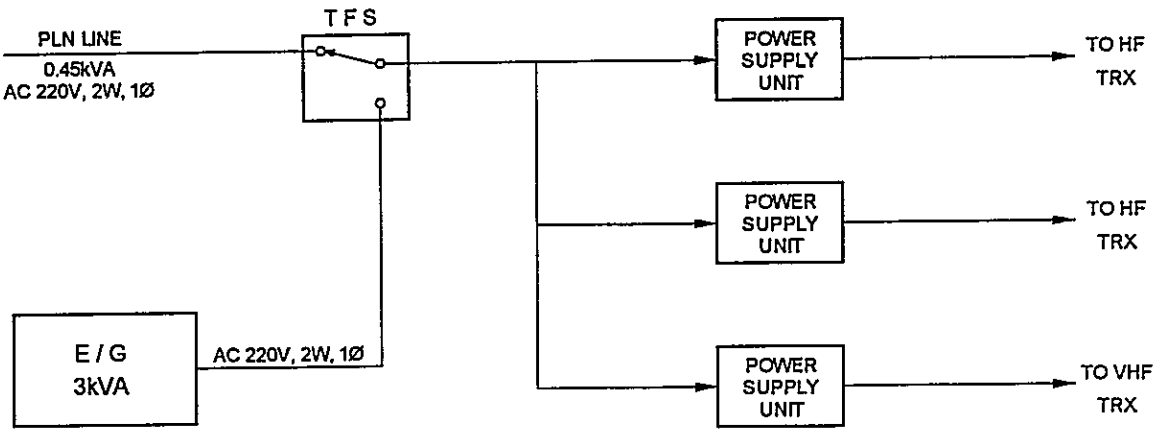
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 11, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: KALIANGET	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,A,T,-,0,9,7,-,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

DATE: Sept 11, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1 / 1
SCALE: No Scale	SITE NAME: KALIANGET	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,A,T,-,0,9,7,-,6,	
JICA –	PT. Aneka Asia Buana	

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

4th-A Class Coast Station

Meneng

(Coast Station No. 98)

Table of Content

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	MENENG		
CLASS	4th-A	NO.	98

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Raya Situbondo No. 115	510111		114° 23′ 50″ E	08° 07′ 30″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Surabaya [Taking time: 1:00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car to Meneng [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	4.00 M		Telephone Lines	☐	☑ City water
Land area	1,232 m²		☑ 1 Lines		

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Roof Tile
Type of ceiling	Plasterboard
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile
Room Area (m²)	
Operation room	18.00
E / G room	6.60
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	110 V
Phase	1	1
Wire	2	2
kVA	2.2	3

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	2 Times	
Total interpt. hours /month	2 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	30 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 ()	()
Technician (skilled)	()	()
Administrator		
T o t a l	3	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	MENENG		
CLASS	4th-A	NO.	98

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			52	1996			125
1997					1992			56	1997			93
1998		1			1993			60	1998			76
1999		3			1994			68	1999			82
2000		1			1995			103	2000			73

7. COMMENTS

Suggestion	
Remarks	

INVENTORY

Site Name: Meneng

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB MF/HF Transceiver	IC-M700	01226	ICOM	1991	Stock	Treatment	Good
2		SSB MF/HF Transceiver	IC-M700	6177	ICOM	1995	Stock	Treatment	Good
3		SSB Transceiver	PYE-130	5868	PYE.Tel	1974	Stock	Treatment	Good
1-2		**Receiver**							
1		All Band Receiver	FRG-7700	MIH-100272	Yaesu	1991	Stock	Treatment	Good
1-3		**VHF System**							
1		VHF Transceiver	FM-400H	H-247622	Furuno	1991	Stock	Treatment	Good
2		VHF Transceiver	SRL-1645	500534	Furincom	1997	Stock	Treatment	Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		"L" Antenna				1996			
2		Whip Antenna (for VHF)				1991			
3		Pole Antenna				1974			
4		Pole Antenna				1995			
5		Dipole Antenna	Cylinder			1974			
6		Dipole Antenna	Cylinder			1995			
7		Dipole Antenna				1996			
2-2		**Antenna Selector**							
1		Antenna Tuner				1995			
3		**Power Supply Equipment**							
3-1		**Step-Up Transformer**							
1		1kW Step-Up	Slide Rog		Japan	1977	Stock	Treatment	Good

INVENTORY

Site Name: Meneng

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-2		UPS & AVR System							
1		Power Supply	PS-8930	183027	VEDIO	1991	Stock	Treatment	Good
2		Power Supply	DM-140MVZ		BELL	1995	Stock	Treatment	Good
3		Power Supply	CA-1010S		Carlton	1991	Stock	Treatment	Good
4		Accumulator 12V/200AH (2)			FUJI	1995			
5		Battery Charger		606608	DELTA	1994	Stock	Treatment	Good
6		Battery Charger		309432	DELTA	1995	Stock	Treatment	Good
7		Automatic Charger	GNT-S	14699	Zellen	1974	Stock	Treatment	Good
3-3		Engine Generator							
1		Genset	ES-79	247453153	Hatz	1974	Project	Treatment	Good
4		Measuring Equipment							
1		AVO Meter	8MK-5	48388	England	1974	Stock	Treatment	Good
5		Others							
1		Fentilator Fan	KUBN		ITHO	1974			
2		Fan		8281	Sanyo	1977			
3		Extinghuiser		11732	Ansuyl	1976			
4		Extinghuiser	YA-AL	1711	Yamato	1977			

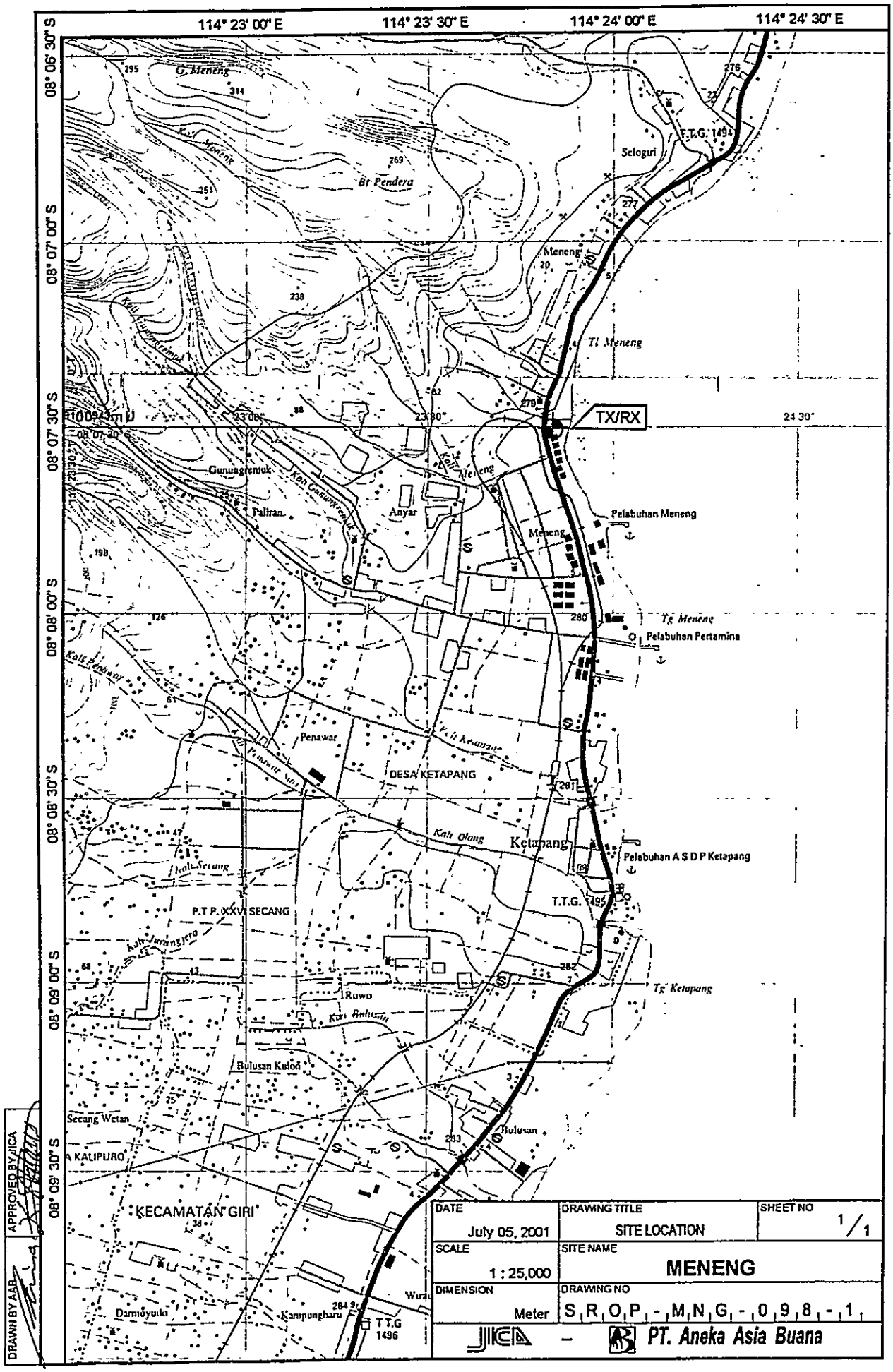
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Meneng

MNG-098-(1/1)

Call Sign : Mobile Service : PKD.22
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				
3	6 215,0	J3E	100		
4	6 209,0				
5	8 794,0	J3E	100		
6	8 270,0				
	VHF Service				
7	Channel-12	F3E	20		
8	Channel-13	F3E	20		
9	Channel-14	F3E	20		
10	Channel-16	F3E	20		
11	Channel-20	F3E	20		
12	Channel-22	F3E	20		
	Fix Service				
13	5 316,0	J3E	100		
14	5 165,0	J3E	100		
15					
16					
17					
18					
19					
20					
21					
22					
23					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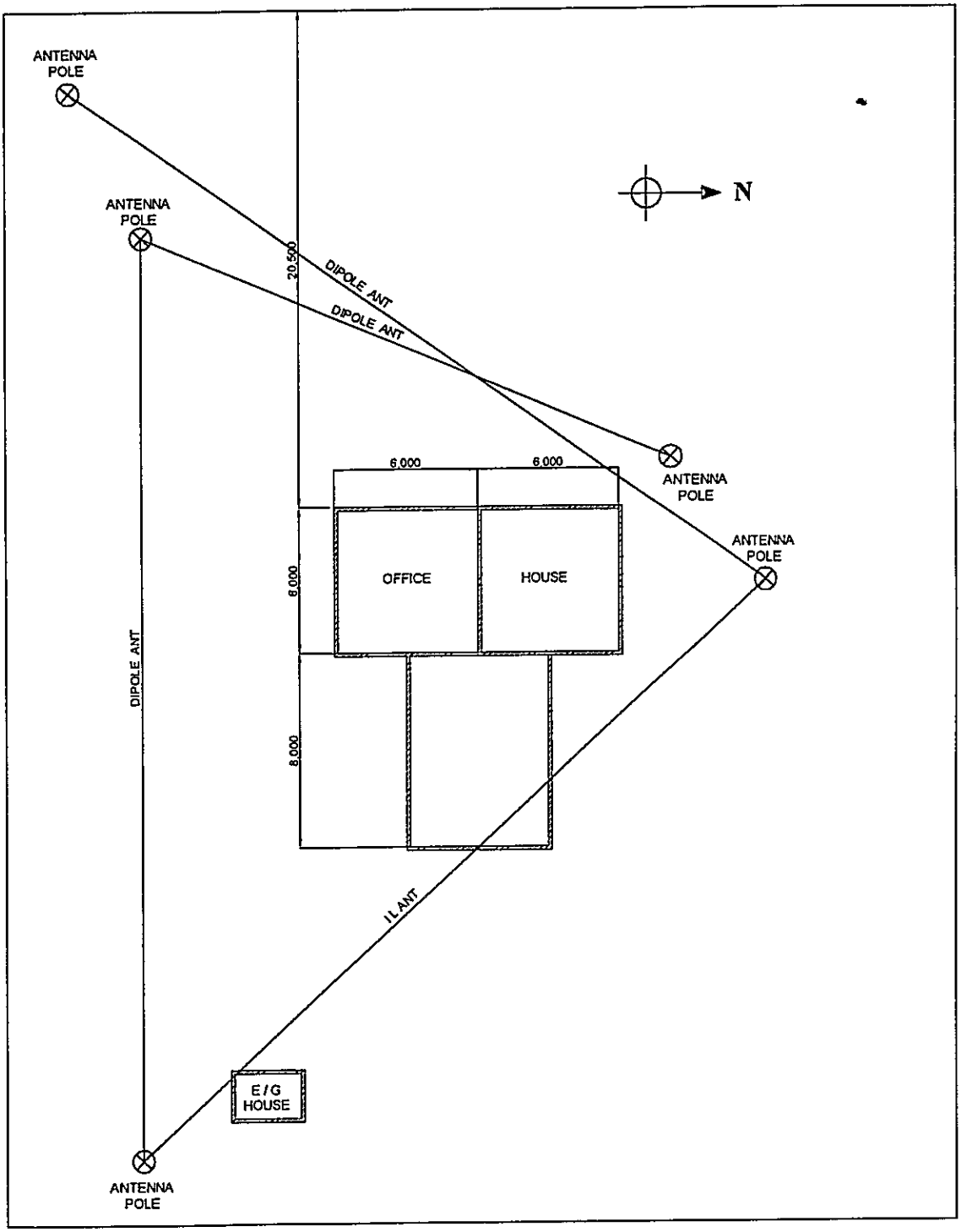
114° 23' 30" E
114° 24' 00" E
114° 24' 30" E
08° 06' 30" S
08° 07' 00" S
08° 07' 30" S
08° 08' 00" S
08° 08' 30" S
08° 09' 00" S
08° 09' 30" S
9100943mN
TX/RX
G. Meneng
Br Pendera
Seloguri
T.T.G. 1494
Meneng
Ti Meneng
Kali Meneng
Gunungrenuk
Kali Gunungrenuk
Paliran
Anyar
Pelabuhan Meneng
Tg Meneng
Pelabuhan Pertamina
Kali Penawar
Penawar
DESA KETAPANG
Kali Olong
Ketapang
Pelabuhan A S D P Ketapang
T.T.G. 1495
Kali Secang
P.T P. XXV SECANG
Kali Jurangjero
Rowo
Kali Bulusan
Tg Ketapang
Bulusan Kulon
Bulusan
Secang Wetan
KALIPURO
KECAMATAN GIRI
Darmoyudo
Kampungbaru
T.T.G 1496
Wira
APPROVED BY JICA
DRAWN BY AAB
DATE
July 05, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/1
SCALE
1 : 25,000
SITE NAME
MENENG
DIMENSION
Meter
DRAWING NO
S R O P - M N G - 0 9 8 - 1
JICA
PT. Aneka Asia Buana

JL. RAYA SITUBONDO 115
BANYUWANGI



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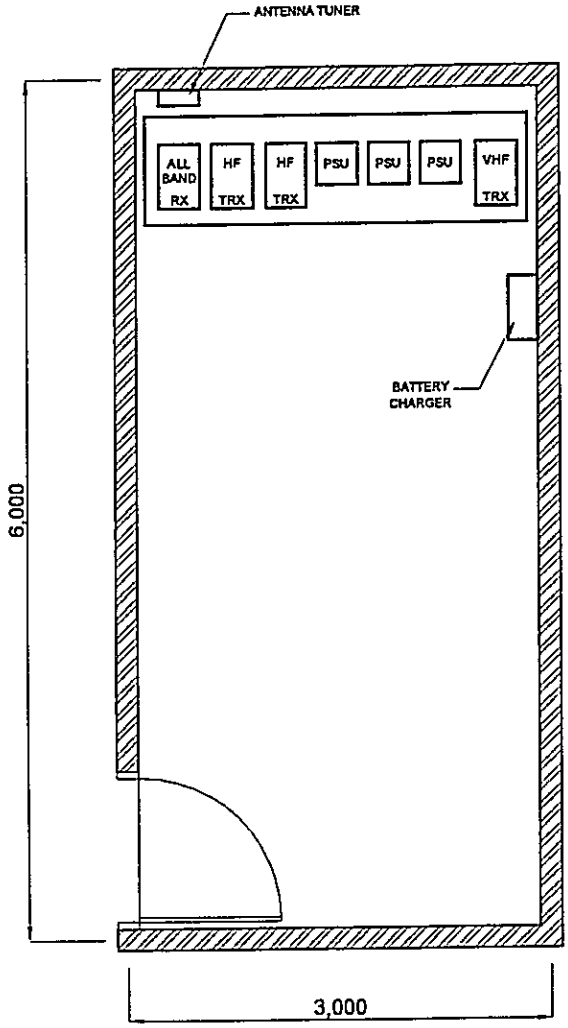
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,G,-,0,9,8,-,2,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB | APPROVED BY JICA



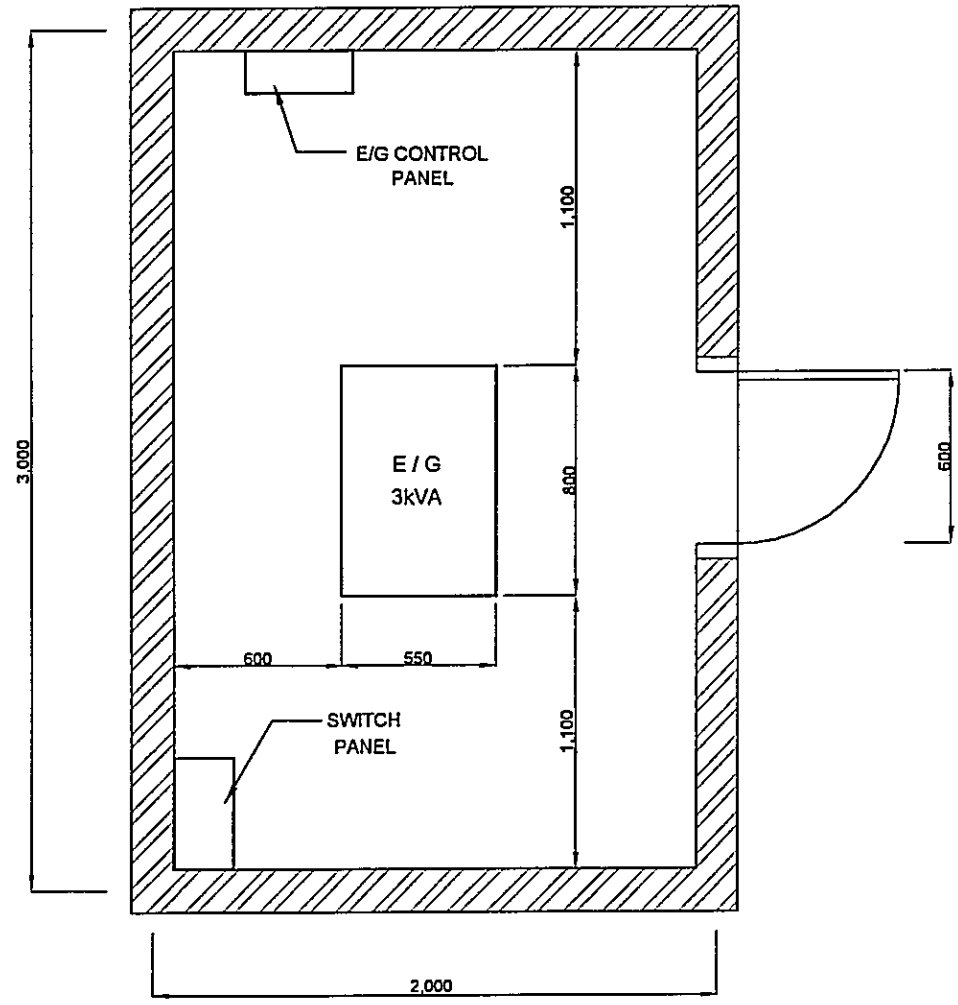
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: MENENG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,G,-,0,9,8,-,3,	
JICA - PT. Aneka Asia Buana		



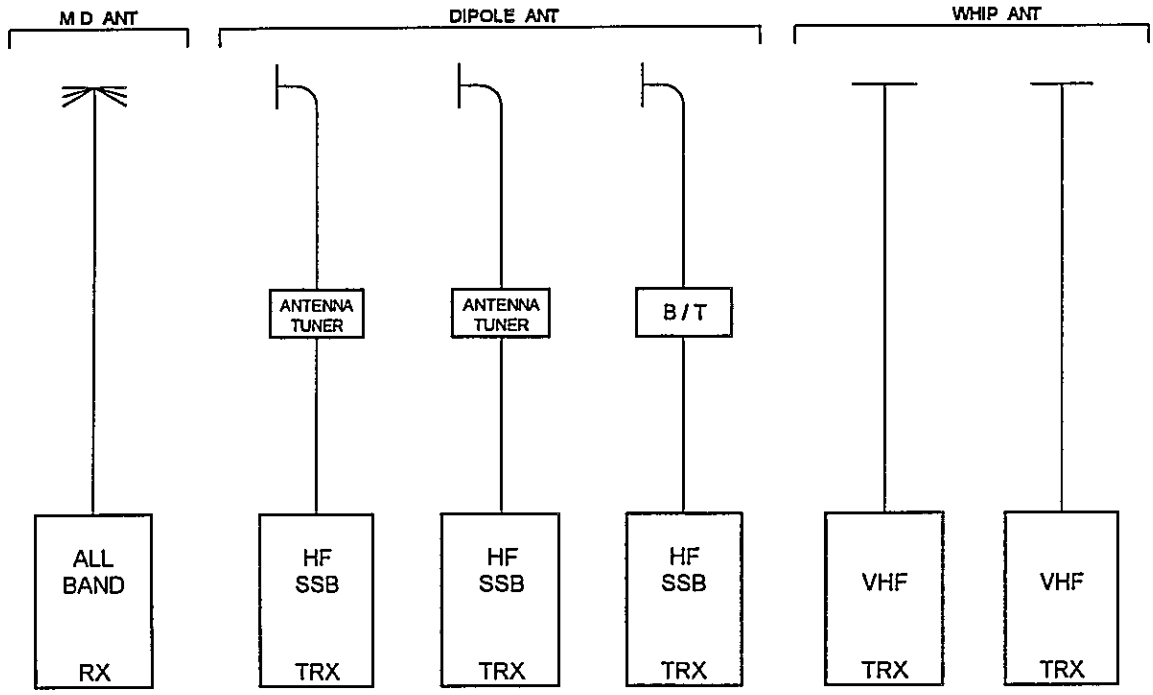
LEGEND

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: MENENG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,G,-,0,9,8,-,4	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



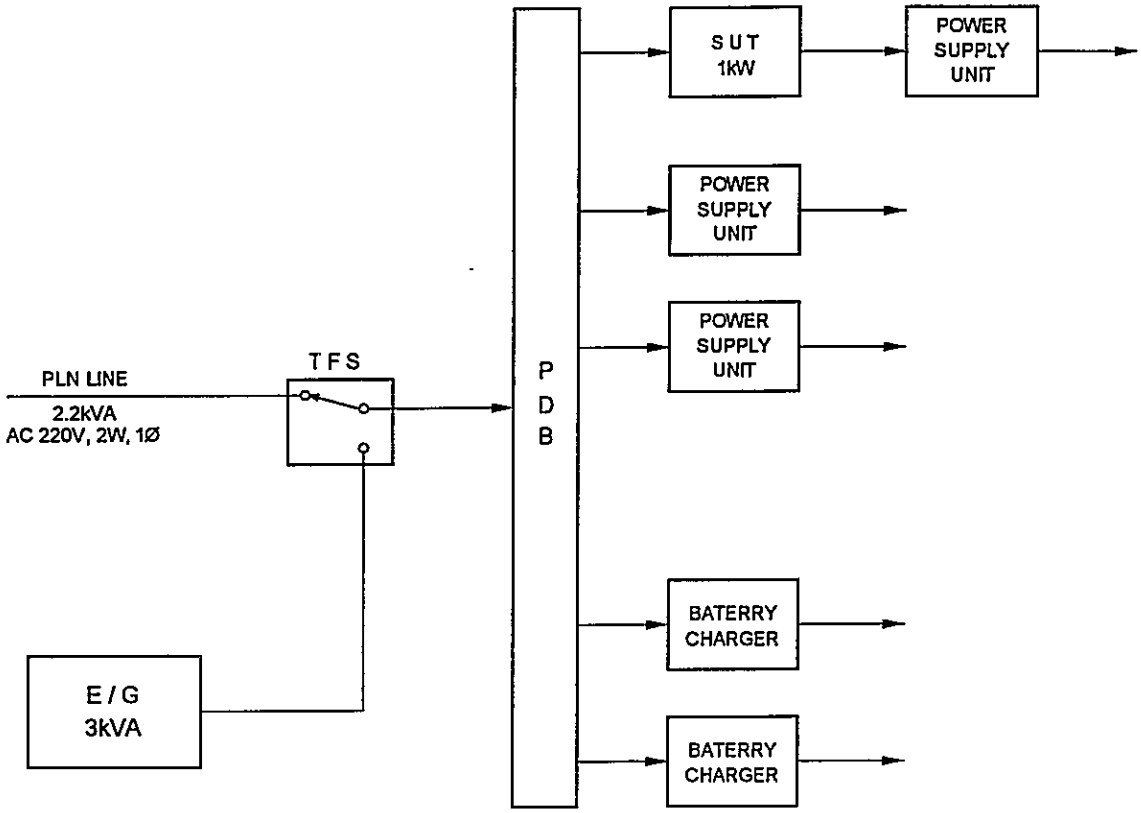
LEGEND

ANT	ANTENNA
B/T	BALUNS TRANS
HF	HIGH FREQUENCY
MD	MULTI DOUBLET
MF	MEDIUM FREQUENCY
RX	RECEIVER (ING)
TX	TRANSMITTER (ING)
TRX	TRANSCEIVER (ING)
VHF	VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: July 31, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MENENG	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,M,N,G,-,0,9,8,-,5,	
JICA – PT. Aneka Asia Buana		



LEGEND

AC	ALTERNATING CURRENT
E/G	ENGINE GENERATOR
HF	HIGH FREQUENCY
kVA	: KILO VOLT AMPERE
PDB	: POWER DISTRIBUTION BOARD
SUT	: STEP UP TRANSFORMER
TRX	: TRANSCEIVER (ING)
V	: VOLT
W	: WIRE
Ø	: PHASE

DATE: July 31, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MENENG	
DIMENSION: Milimeter	DRAWING NO.: SROP-MNG-098-6	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB

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

4th-A Class Coast Station

Gresik

(Coast Station No. 99)

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	GRESIK		
CLASS	4th-A	NO.	99

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso Blok-IV No. 31	3973532		112° 35′ 40″ E	07° 09′ 30″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Surabaya	[Taking time. 1.00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car	to Gresik	[Taking time: 1:30 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	20.00 M		**Telephone Lines**	☑ Feeder Cable Way	☐
Land area	222.00 m²		☑ 1 Lines	☐ City water	☑

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220/110 V
Phase	1	1
Wire	2	2
kVA	1.3	5

Quality of PLN source		
Fluctuations	220 V ± 10 %	
Availability of power per day	24 Hours	
Power interruption /month	3 Times	
Total interpt. hours /month	2 Hours	
Max. interpt. hours at once	3 Hours	

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

Capacity of fuel for engine	
Day tank	5 Liter
Main tank	0.20 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	1	
Operator (skilled)	2 ()	()
Technician (skilled)	()	()
Administrator		
T o t a l	3	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	GRESIK		
CLASS	4th-A	NO.	99

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	1		

7. COMMENTS

Suggestion	
Remarks	

INVENTORY

Site Name: Gresik

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		MF/HF Transceiver	IC-M700	40316	ICOM	1996			Good
1-2		**VHF System**							
1		VHF Transceiver	FTC-1550A		Yaesu	1984			Good
2		VHF Transceiver	SRL-1645		Furincom	1997			Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		Dipole Antenna				1994			Good
2		Whip Antenna				1996			Good
3		VHF Antenna	Ring-O			1997			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		Accumulator 2x12V/200			Y'hama	1996			
2		Accu Charger in 220/110V				1996			
3		DC Power Supply	AR-3010CH		Furincom	1997			Good
4		Accu	N-100		Yuasa	1997			Damaged
3-2		**Engine Generator**							
1		Engine 13.5 PK	KD-120	16275	Yanmar	1996			Good
2		Generator 5KVA	FA-5	0468739	Denyo	1996			Good
4		**Measuring Equipment**							
1		Multi Tester	YX-360TR		Sanwa	1994			
2		Multi Tester	SP-68		Heles	2000			Good
5		**Others**							
1		Air Conditioner 1PK (2)	Split		National	1996			Good
2		Telephone Set	3973532		INTI	1997			Good
3		Water Pump			DAB	1994			Good

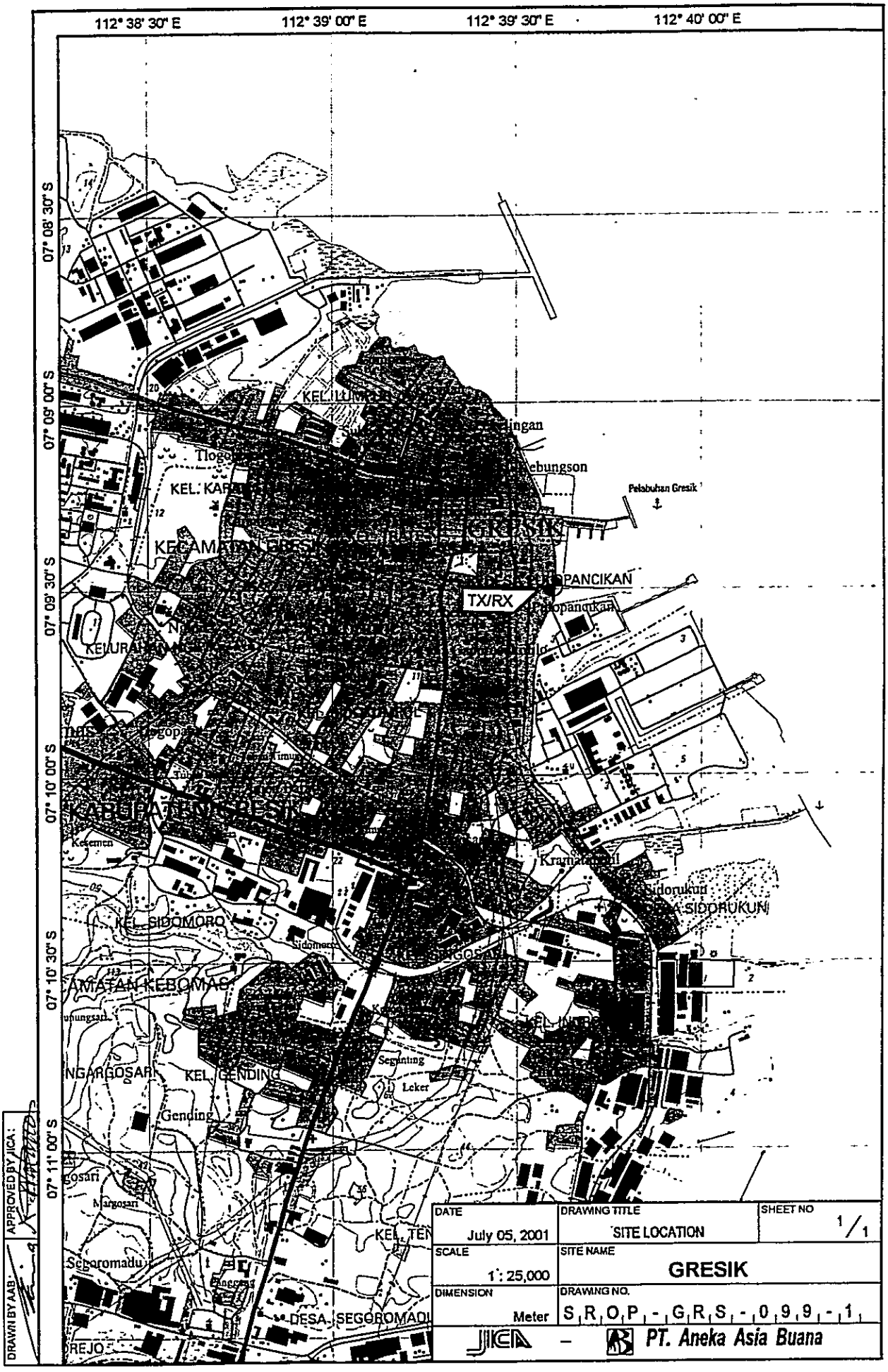
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Gresik

GRS-099-(1/1)

Call Sign : Mobile Service : PKD.51
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	3 180,0	J3E	100		
3	6 215,0	J3E	100		
4	6 510,0	J3E	100		
	VHF Service				
5	Channel-16	G3E	25		
6	Channel-20	G3E	25		
7	Channel-22	G3E	25		
8	Channel-26	G3E	25		
	Fix Service				
9	5 165,0	J3E	100		
10	5 316,0	J3E	100		
11	6 926,0	J3E	100		
12	9 950,0	J3E	100		
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



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DIMENSION: Meter	DRAWING NO.: SROP-GRS-099-1	

JICA – PT. Aneka Asia Buana

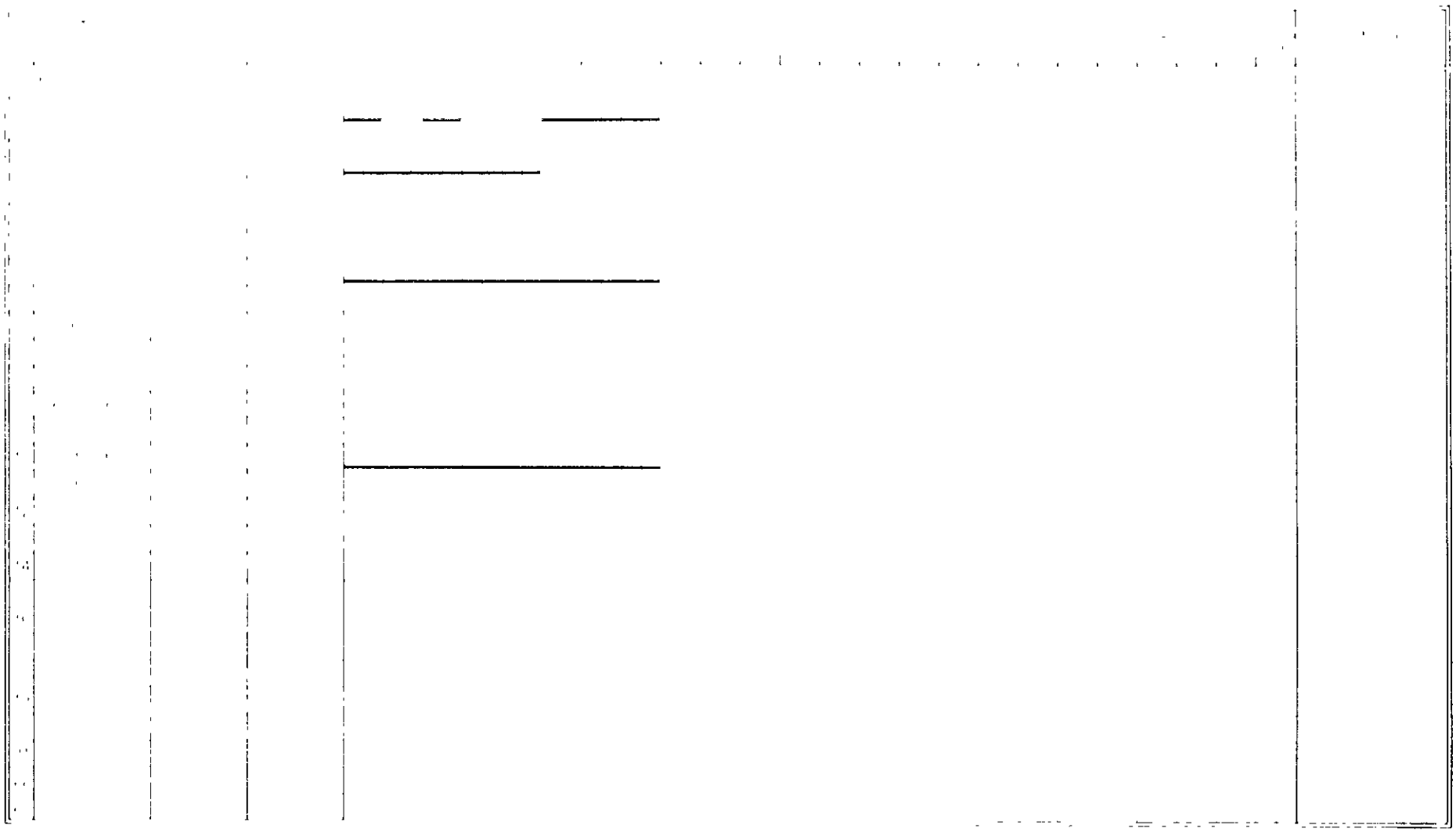
APPROVED BY JICA:

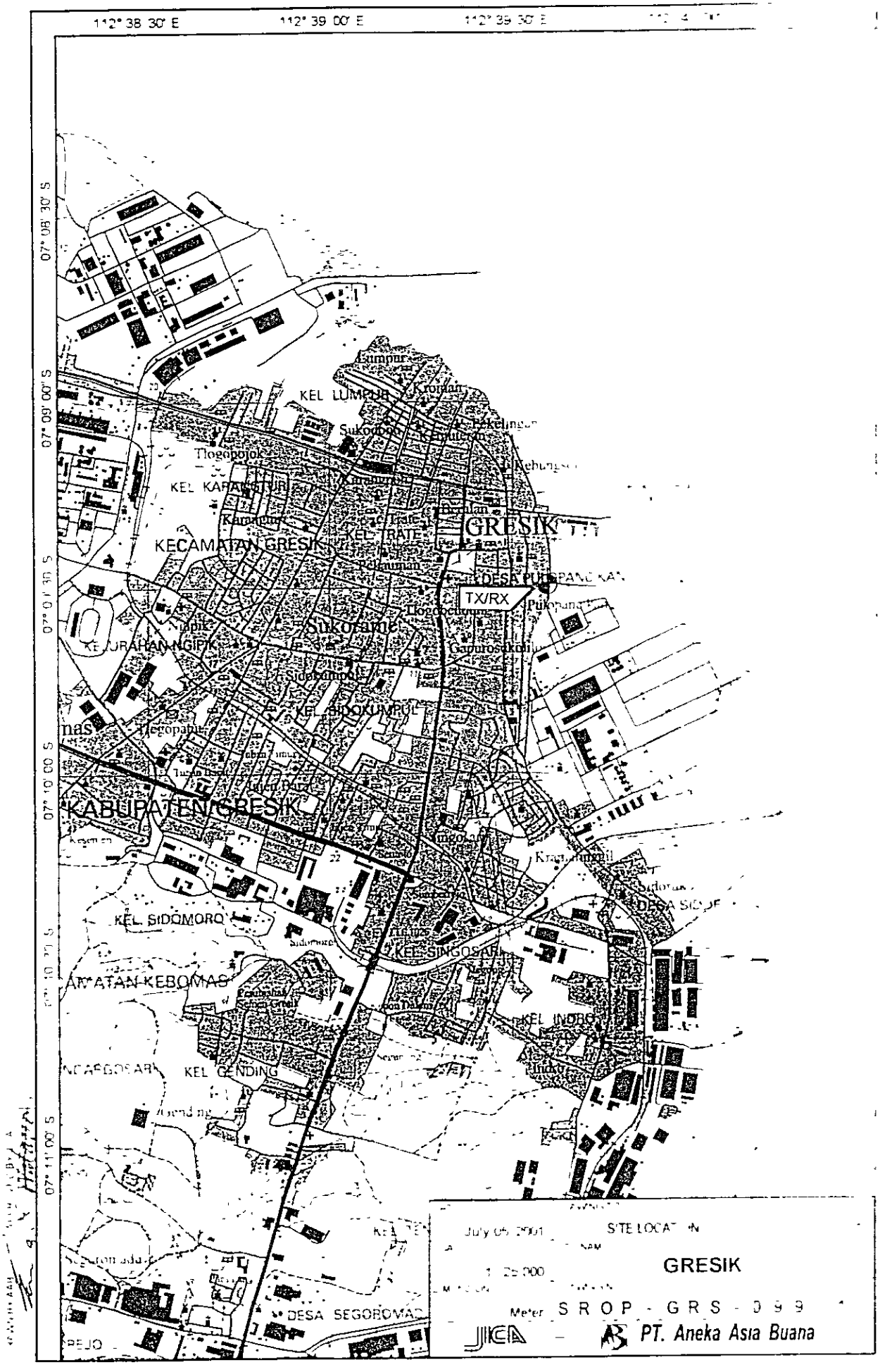
DRAWN BY AAB:

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Gresik

Call Sign

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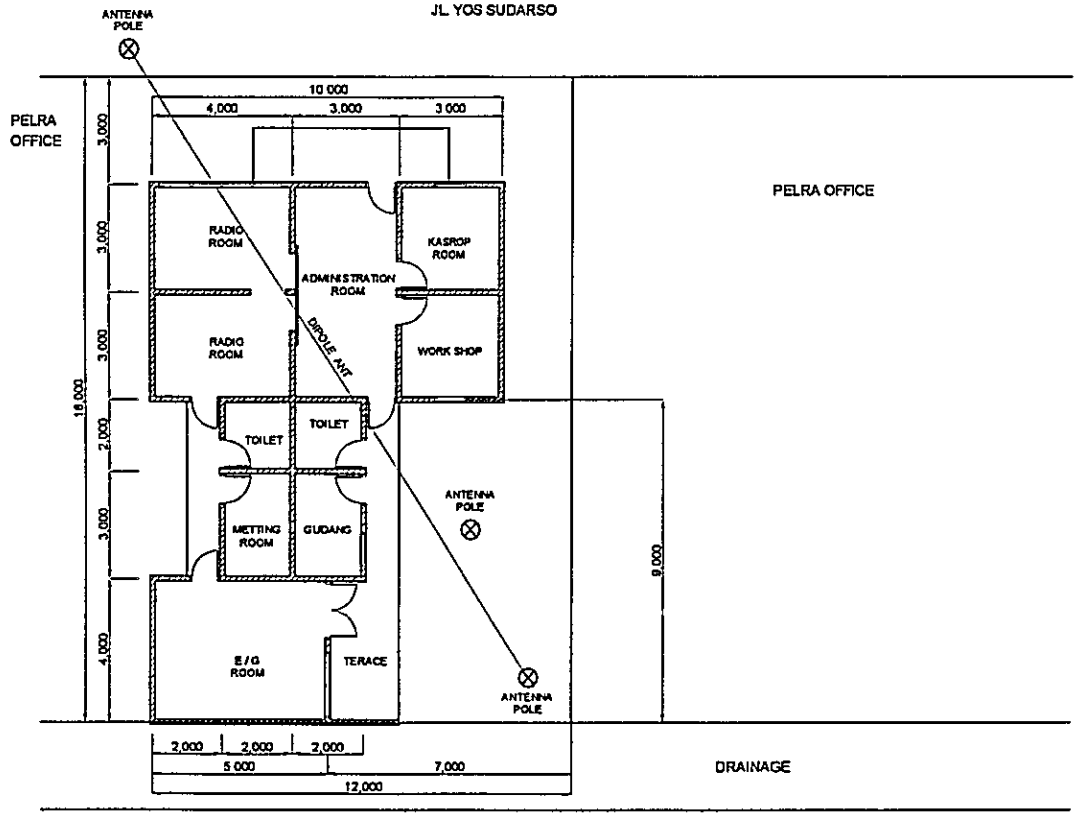
112° 39' 00" E
112° 39' 30" E
07° 08' 30" S
07° 09' 00" S
07° 09' 30" S
07° 10' 00" S
07° 10' 30" S
07° 11' 00" S
KEL LUMPUR
KEL KARANGTURI
KEL TRATE
GRESIK
KECAMATAN GRESIK
DESA PUDOPANGKAH
TX/RX
Sukorame
KEL KEBOKUMPUL
KABUPATEN GRESIK
KEL SIDOMORO
KEL SINGOSARI
KEL INDRO
KEL GENDING
DESA SEGOROMAD
SITE LOCATION
GRESIK
SROP - GRS - 099
JICA
PT. Aneka Asia Buana

PIER

TRUCK PARKING

JL. YOS SUDARSO



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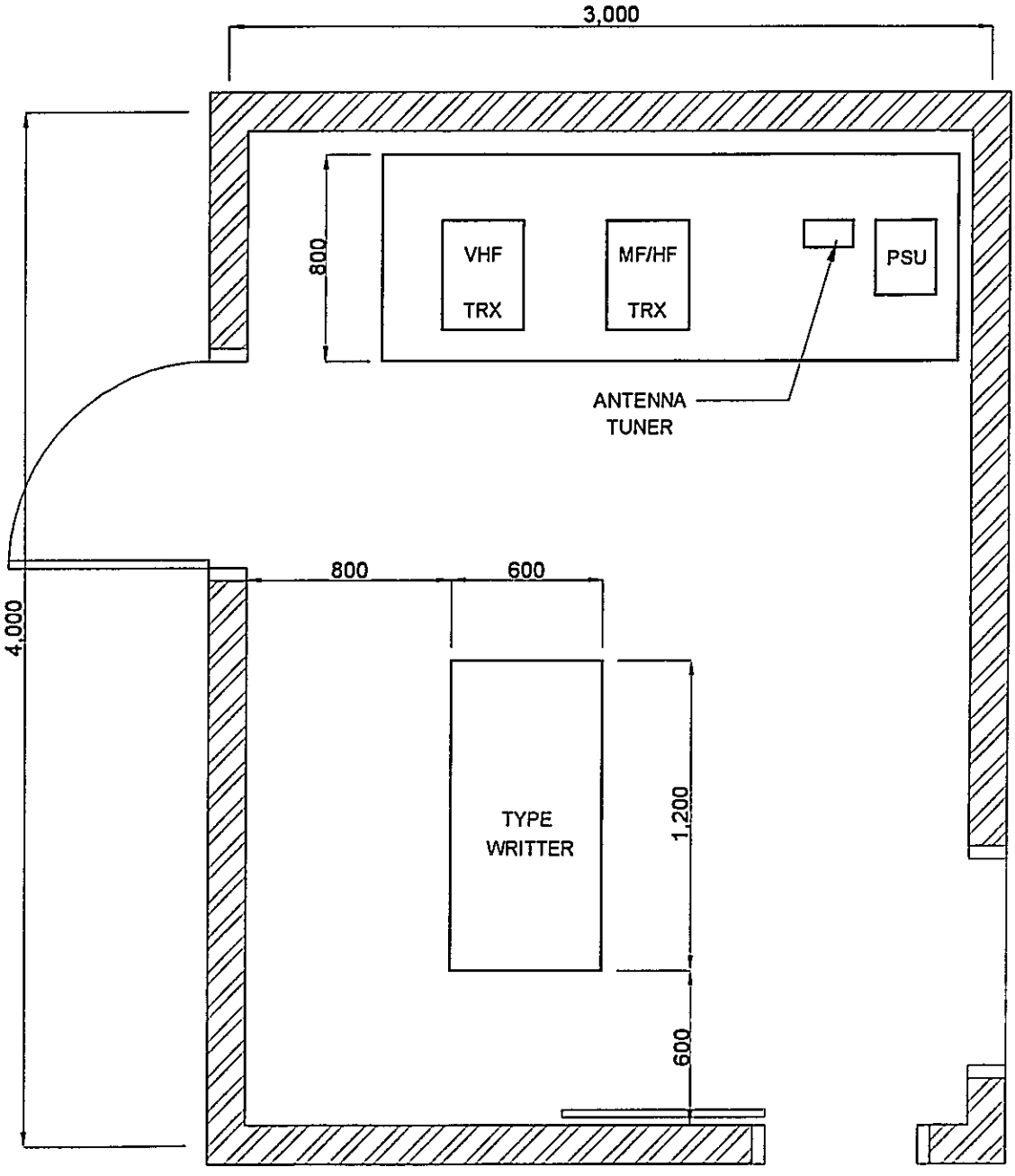
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA.



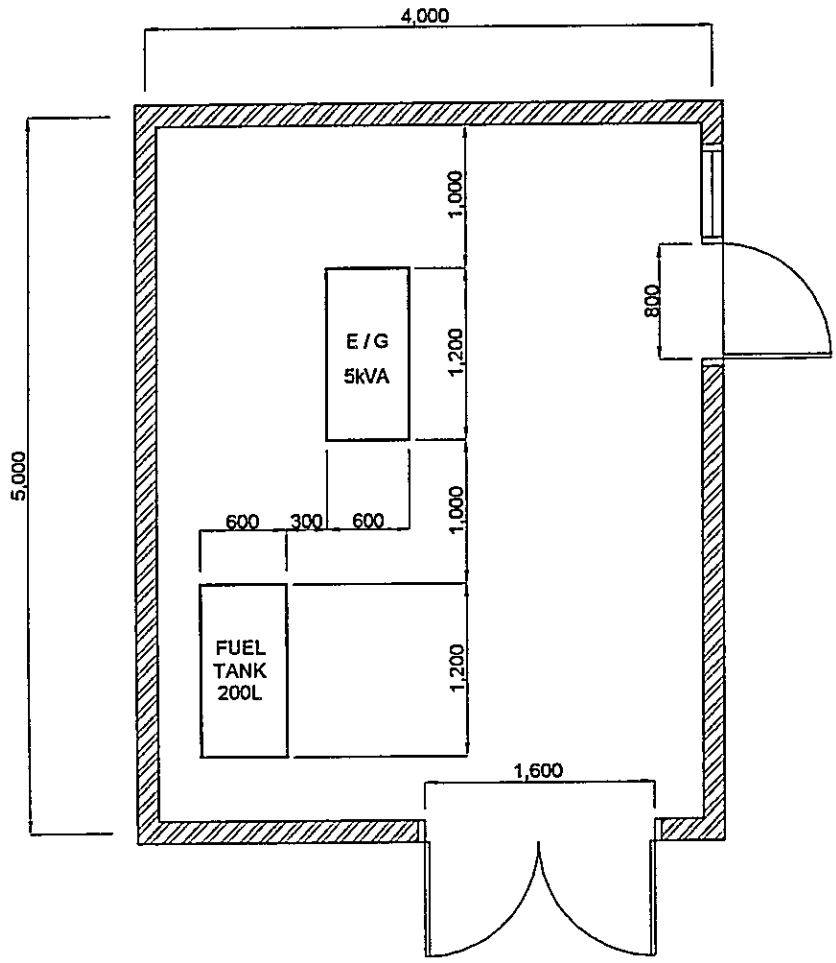
LEGEND

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

APPROVED BY JICA :

DRAWN BY AAB

DATE: July 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: GRESIK	
DIMENSION: Milimeter	DRAWING NO: SROP-GRS-099-3	
JICA –	PT. Aneka Asia Buana	



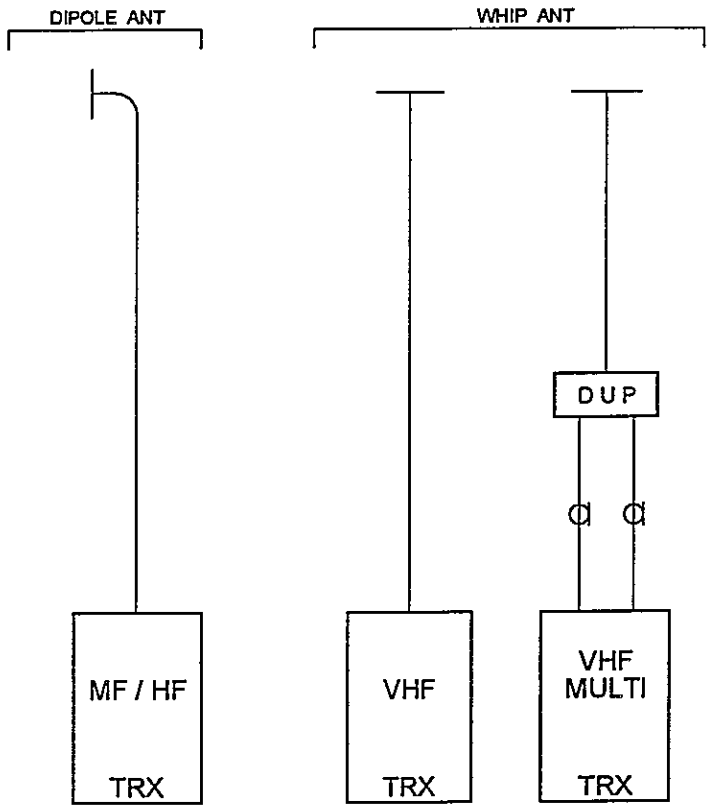
LEGEND

E/G	ENGINE GENERATOR
kVA	KILO VOLT AMPERE
L	LITER

DATE: July 01, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: GRESIK	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,G,R,S,-,0,9,9,-,4,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



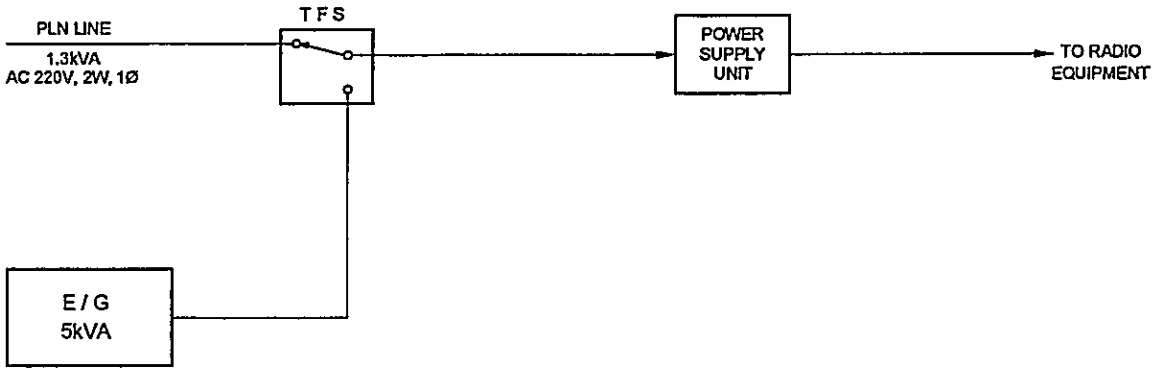
LEGEND

ANT	ANTENNA
DUP	DUPLEXER
HF	: HIGH FREQUENCY
MF	MEDIUM FREQUENCY
TX	: TRANSMITTER (ING)
TRX	. TRANSCEIVER (ING)
VHF	: VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: July 31, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: GRESIK	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,G,R,S,-,0,9,9,-,5,	
JICA –	PT. Aneka Asia Buana	



LEGEND

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

DATE: Sept 11, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: GRESIK	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,G,R,S,-,0,9,9,-,6,	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA

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

4th-A Class Coast Station
Probolinggo
(Coast Station No. 100)

Table of Content

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	PROBOLINGGO		
CLASS	4th-A	NO.	100

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Tg. Tembaga Baru No. 8	452-21519		113° 13′ 00″ E	07° 23′ 00″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Surabaya	[Taking time 1.00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car	to Probolinggo	[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		☑ Typhoon	☑ Feeder Cable Way	☐
Altitude	4 00 M		Telephone Lines	☑ City water	☐
Land area	2,400 m²		☑ 1 Lines		

3.2 Building Conditions

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

Room Area (m²)	
Operation room	80.00
E / G room	2.25
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.9	3

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	3 Times	
Total interpt hours /month	6 Hours	
Max. interpt. hours at once	12 Hours	

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

Capacity of fuel for engine	
Day tank	5 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 in Surabaya
Examples of major failure	
Sufficiency of spares	In Surabaya Work Shop

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	PROBOLINGGO		
CLASS	4th-A	NO.	100

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	Damage Equipment will be sent to Workshop ETP Surabaya

INVENTORY

Site Name: Probolinggo

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		MF/HF Transceiver	PYE-130	5858	Philips	1974		Workshop	Damaged
2		MF/HF Transceiver	FT-300	08204026YC	Yaesu	1982		Workshop	TX Damaged
1-2		**VHF System**							
1		VHF Transceiver	FM-400	2475	Furuno	1989			Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		Dipole Antenna (2)				1976			Good
2		Wave Antenna (1)				1989			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		Power Supply	CA-1010S		Carlton	1989			Good
2		Power Supply	RE-2000	183027	Vedio	1980		Workshop	Damaged
3-2		**Engine Generator**							
1		Engine 2PK	RD-45-N		Japan	1996			Good
2		Generator 3KVA	FA-3	046894	Dein	1996			Good
4		**Measuring Equipment**							
1		Multi Tester	YX-360TR		Sanwa	1994			Good
5		**Others**							
1		FAN	FD3074N		Hofner	1985			Not So Good
2		Clock			Junghans	1974			Good
3		Safety Belt	LSA-210		Daichi	1990			Good
4		Helm				1990			Good
5		Tool kit	SMIC	615	Diamond	1996			Good

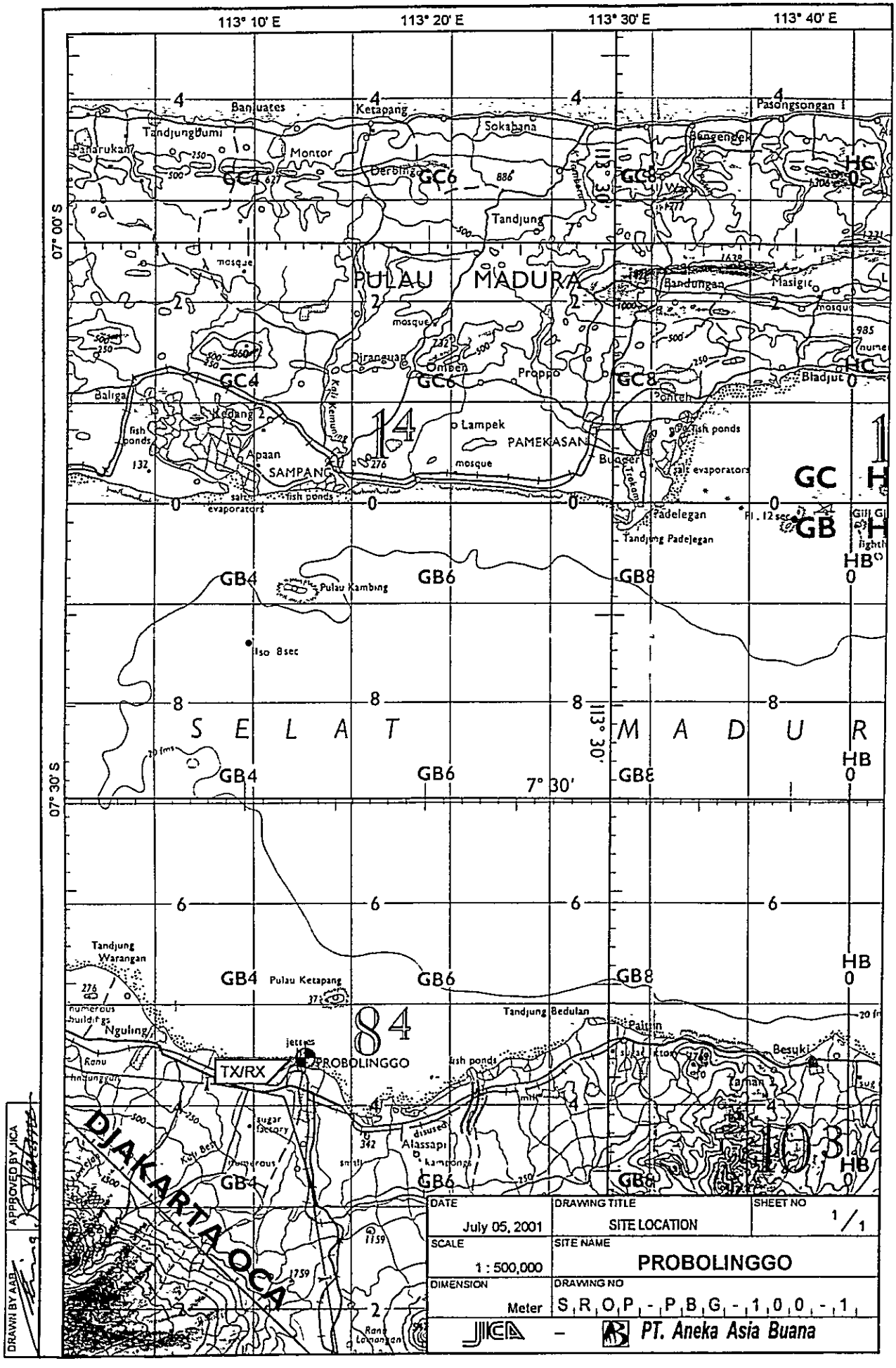
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Probolinggo

PBG-100-(1/1)

Call Sign : Mobile Service · PKD.23
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		
	VHF Service				
3	Channel-12	G3E	25		
4	Channel-13	G3E	25		
5	Channel-14	G3E	25		
6	Channel-16	G3E	25		
	Fix Service				
7	5 316,0	J3E	100		
8	9 950,0	J3E	100		
9	6 926,0	J3E	100		
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
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DIMENSION: Meter	DRAWING NO: S,R,O,P,-,P,B,G,-,1,0,0,-,1	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

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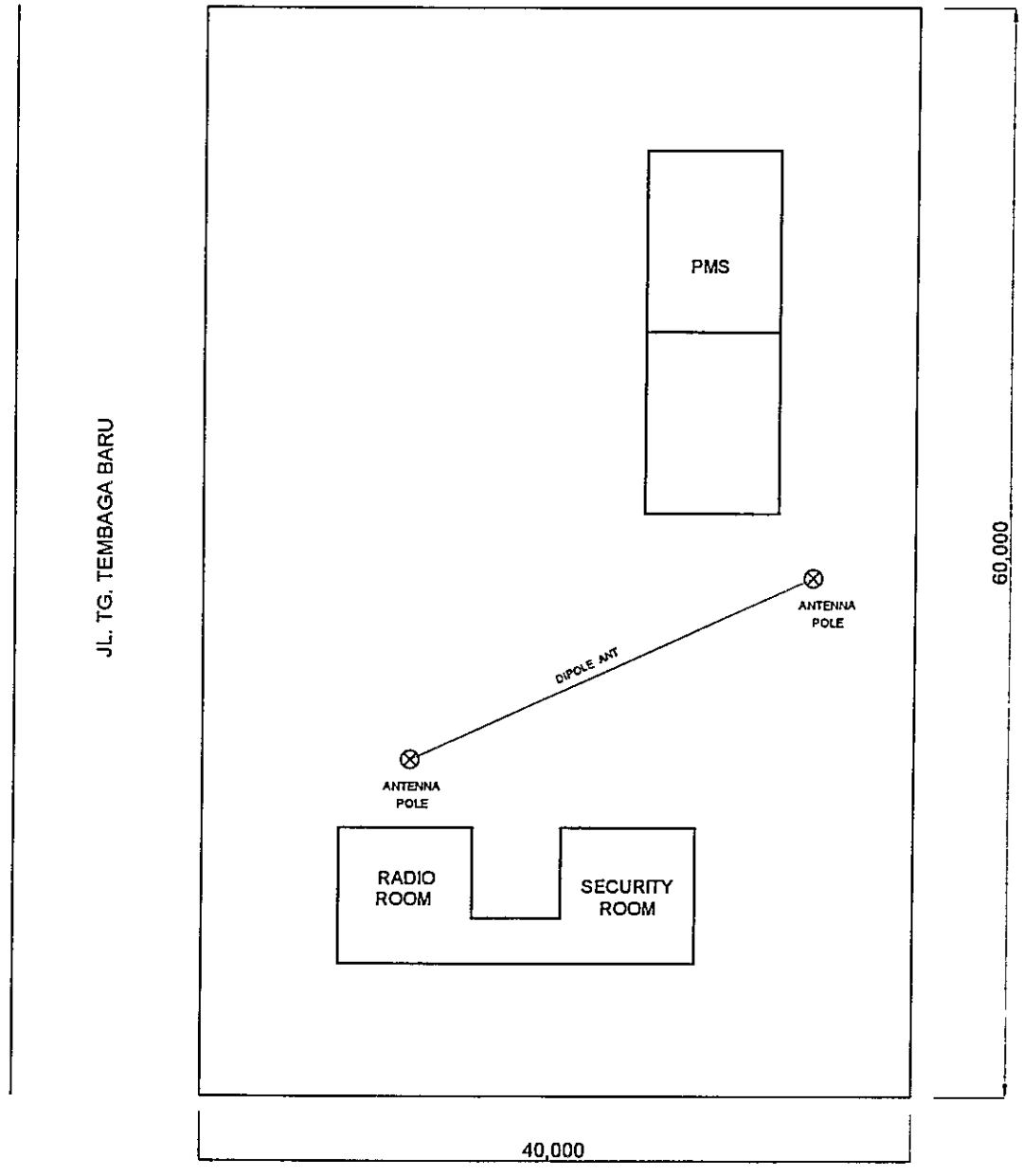
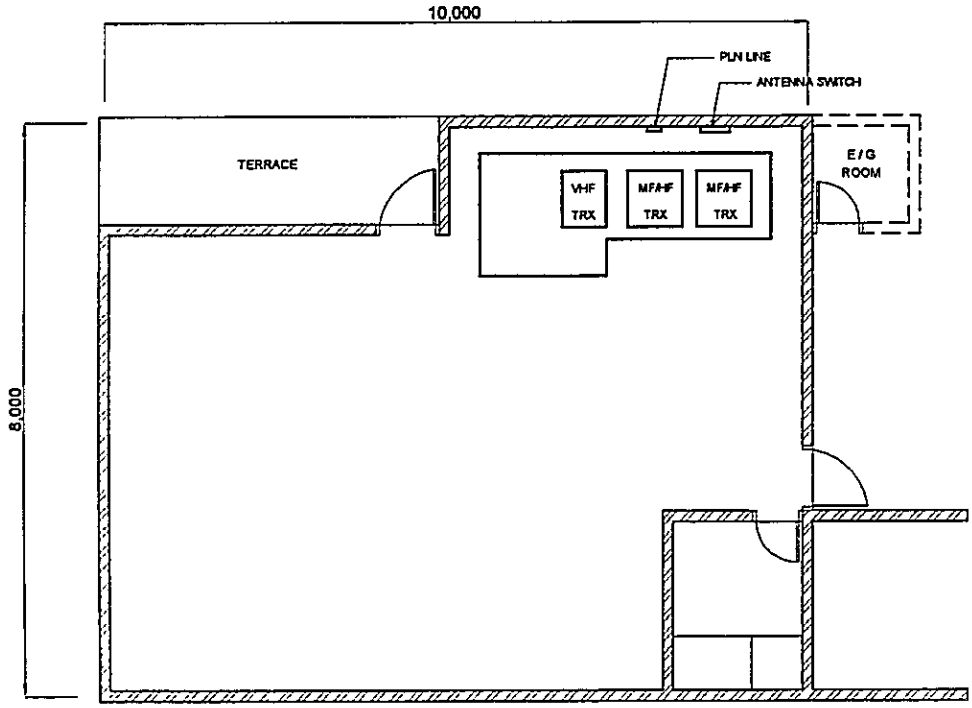


DRAWN BY AAB

APPROVED BY JICA

DATE: July 01, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 150	SITE NAME: PROBOLINGGO	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,B,G,-,1,0,0,-,2,	
JICA –	PT. Aneka Asia Buana	



LEGEND

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

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

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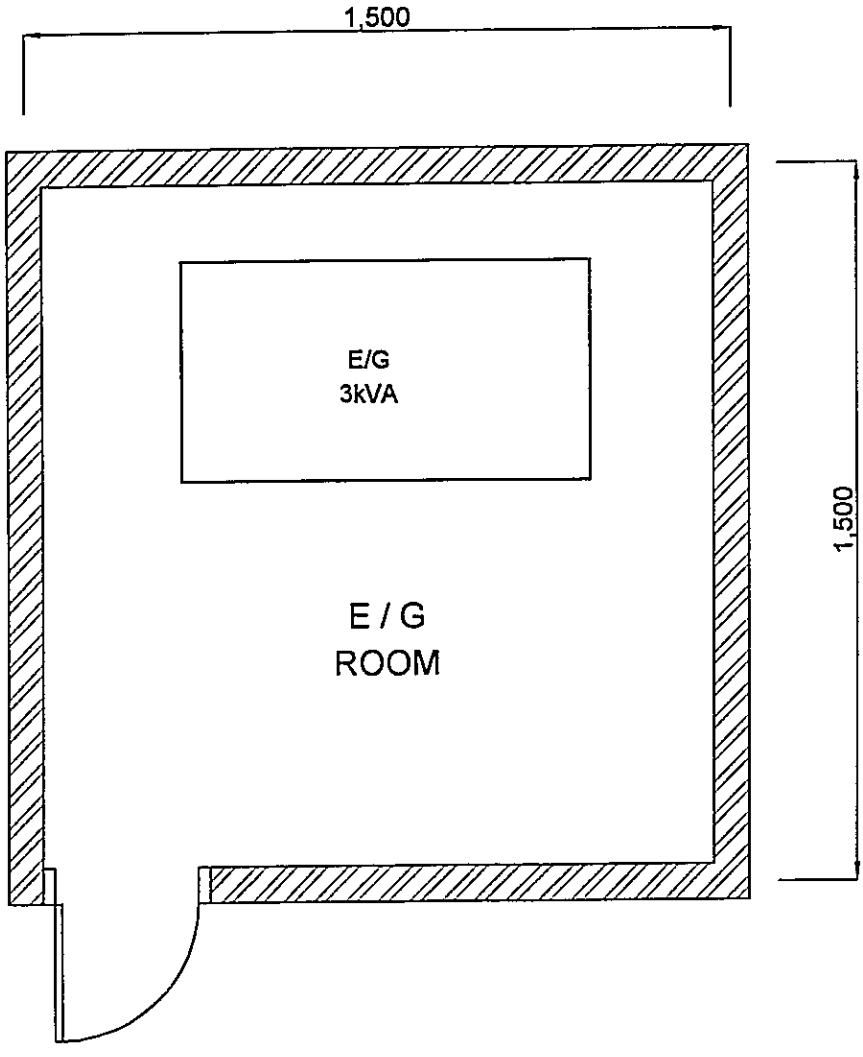
APPROVED BY JICA



LEGEND

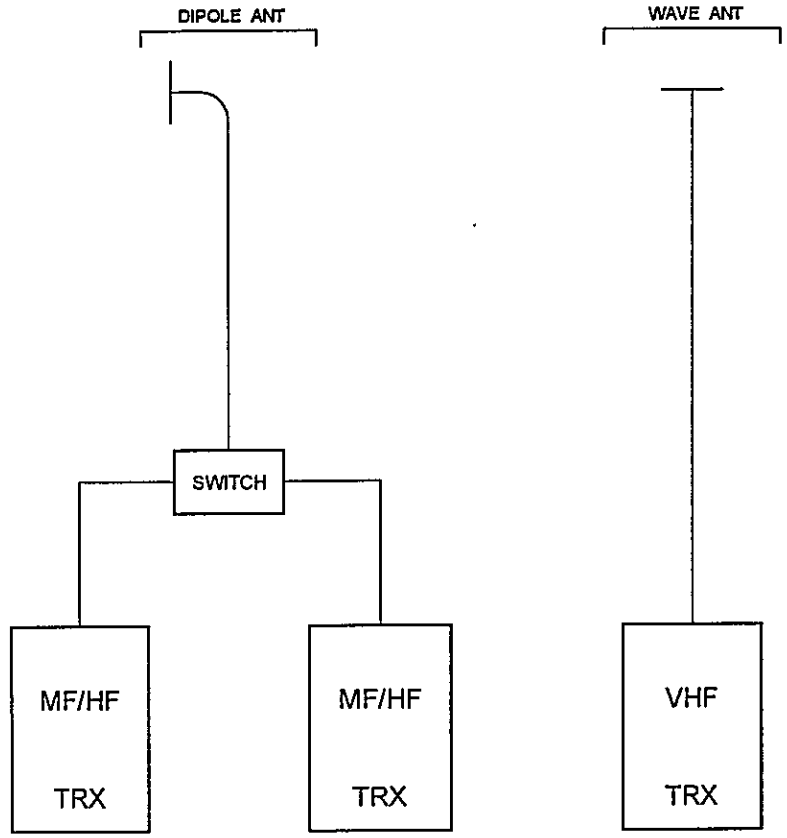
E/G : ENGINE GENERATOR

kVA : KILO VOLT AMPERE

DATE: July 01, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 15	SITE NAME: PROBOLINGGO	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,P,B,G,-,1,0,0,-,4,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



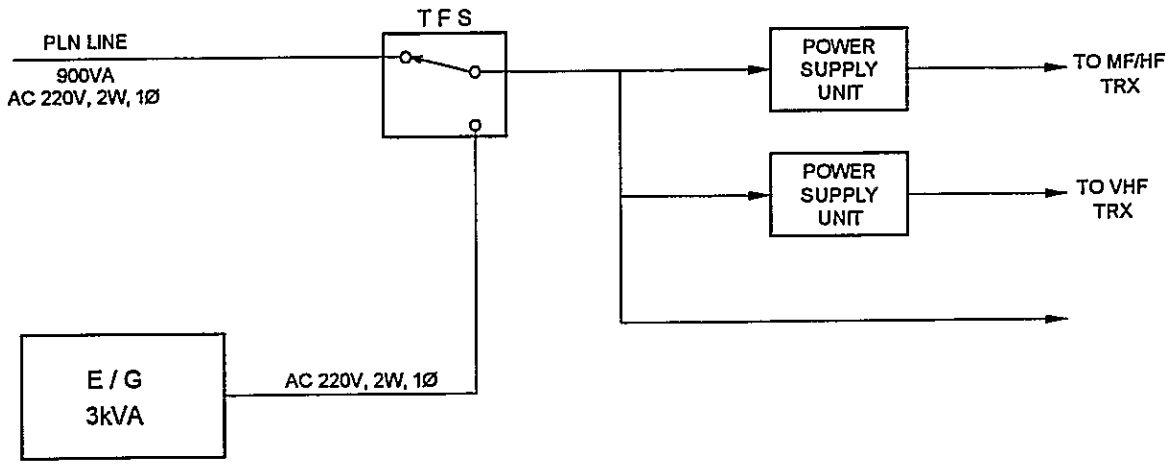
LEGEND

ANT : ANTENNA
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: PROBOLINGGO	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,P,B,G,-,1,0,0,-,5,	
JICA –	PT. Aneka Asia Buana	



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: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PROBOLINGGO	
DIMENSION: Milimeter	DRAWING NO: SRO P-PBG-100-6	
JICA –	PT. Aneka Asia Buana	

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

4th-A Class Coast Station
Bawean
(Coast Station No. 101)

Table of Content

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	BAWEAN		
CLASS	4th-A	NO.	101

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Nagasari S. Pura			112° 39′ 20″ E	05° 51′ 20″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Surabaya	[Taking time	1.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	60,285
By Car	to Gresik	[Taking time.	1:00 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Ship	to Bawean	[Taking time.	6.00 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	
☑ 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	3,305 m²		☐ Lines	☐	☑ City water

3.2 Building Conditions

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

Room Area (m²)	
Operation room	9.00
E / G room	3.75

Remark

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	1
Wire	2	2
kVA	0.9	1.5

Quality of PLN source			
Fluctuations	180 V ± 40 %		
Availability of power per day	24 Hours		
Power interruption /month	Times		
Total interpt. hours /month	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	5 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	1	
Operator (skilled)	1 ()	()
Technician (skilled)	()	()
Administrator		
T o t a l	2	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	BAWEAN		
CLASS	4th-A	NO.	101

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: Bawean

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		Transceiver	FRG-7700	3M270465	Yaesu	1984			Damaged
2		Transceiver	Ft-300	C0824045YC	Yaesu	1981			Damaged
3		Transceiver	FT-80	3MC30239	Yaesu	1994			Good
4		Transceiver	IC-710	04038	ICOM	1995			Good
1-2		**VHF System**							
1		VHF Transceiver	SRL 1645	501111	Furincom	1994			Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		Dipole Antenna (2)				1983			Good
2-2		**Antenna Switch**							
1		Antenna Turner	NT-616	006483	K'nishi	1994			Good
2		Antenna VHF	NY-Gain V	3355		1994			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		Battery Charger 6-36V			YOKO	1997			Damaged
2		Battery Charger 60V			YOKO				Good
3		Battery Charger 24V			Selenium				Damaged
4		Battery Charger 16-129V			Makita	1994			Good
5		Photo Voltatic	AEG			1989			Good
6		Accumulator 12V	N200		Hitachi	1992			Damaged
7		Accumulator 2x12V	N200		Y'hama	1994			Damaged
8		Accumulator	N100		Yuasa	1997			Good
9		Accumulator 2x12V	N200		Yuasa	1997			Damaged
3-2		**Engine Generator**							
1		Engine Generator	FA-3	0428989	Yanmar/Denyo				Good
4		**Measuring Equipment**							
1		AV0 Meter	SP-15D		Sanwa	1996			Damaged

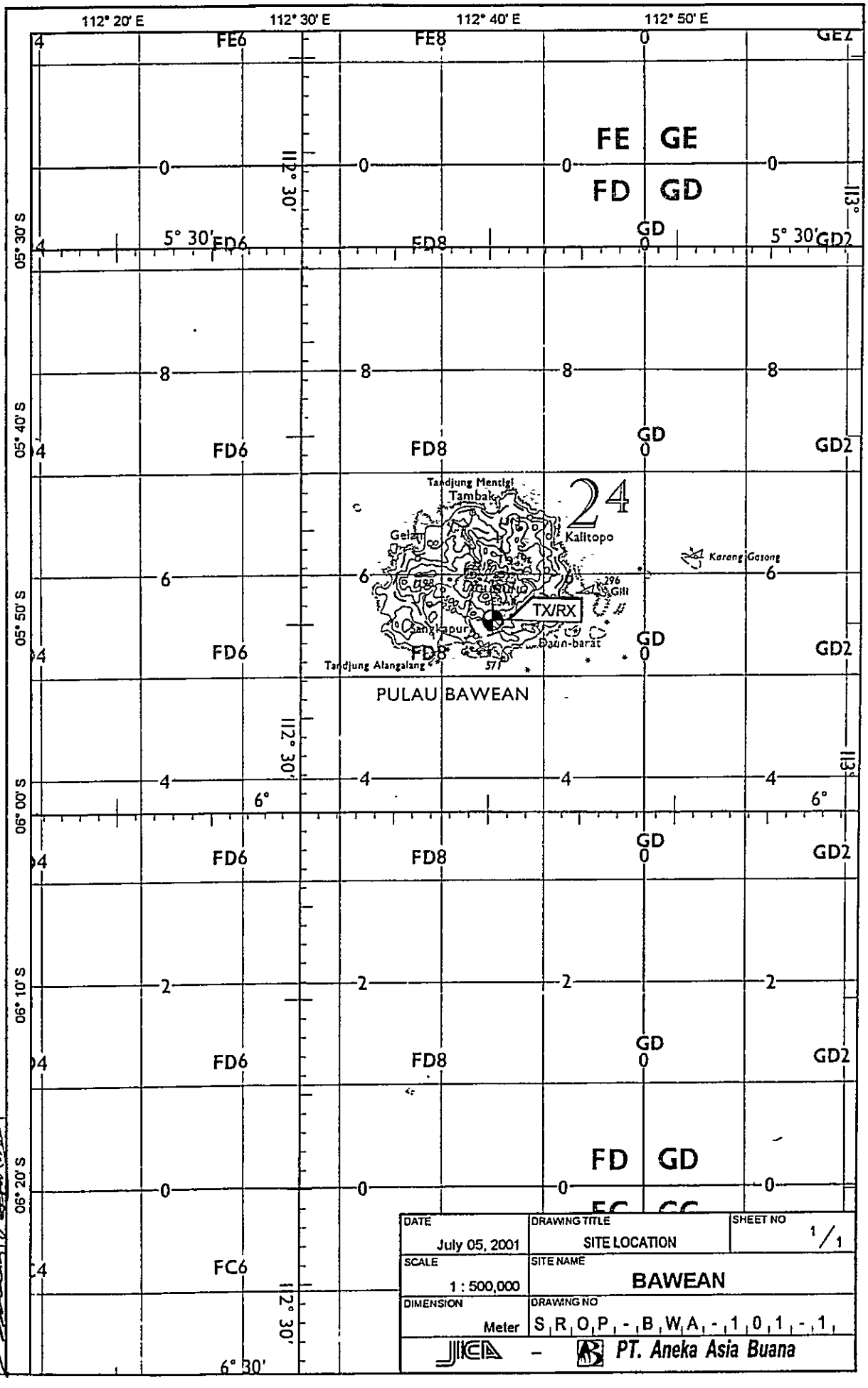
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Bawean

BWA-101-(1/1)

Call Sign : Mobile Service : PKD 33
Fix Service : AD22

	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		
	VHF Service				
4	Channel-16	G3E	50		
	Fix Service				
5	5.316,0	J3E	100		
6	5 165,0	J3E	100		
7	4 055,0	J3E	100		
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



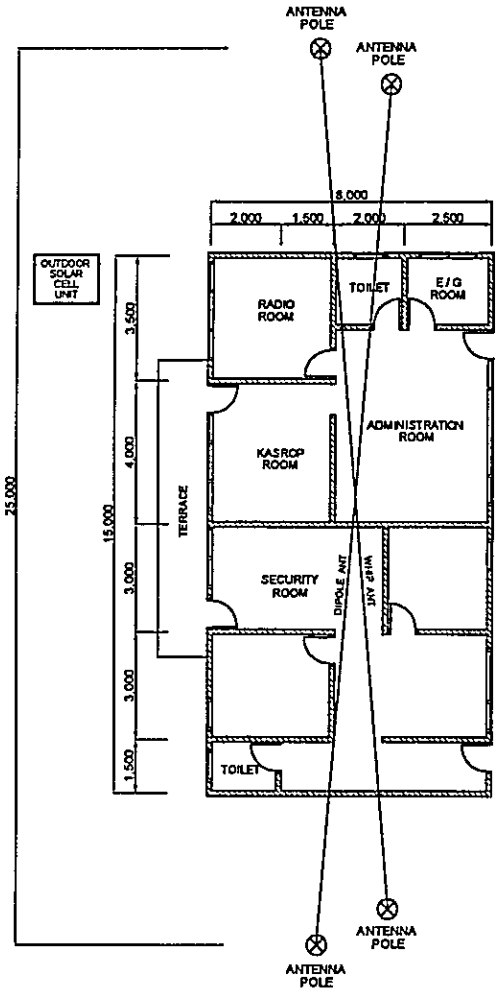
DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: BAWEAN	
DIMENSION: Meter	DRAWING NO: S R O P - B W A - 1 0 1 - 1	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB

JL. NAGASARI

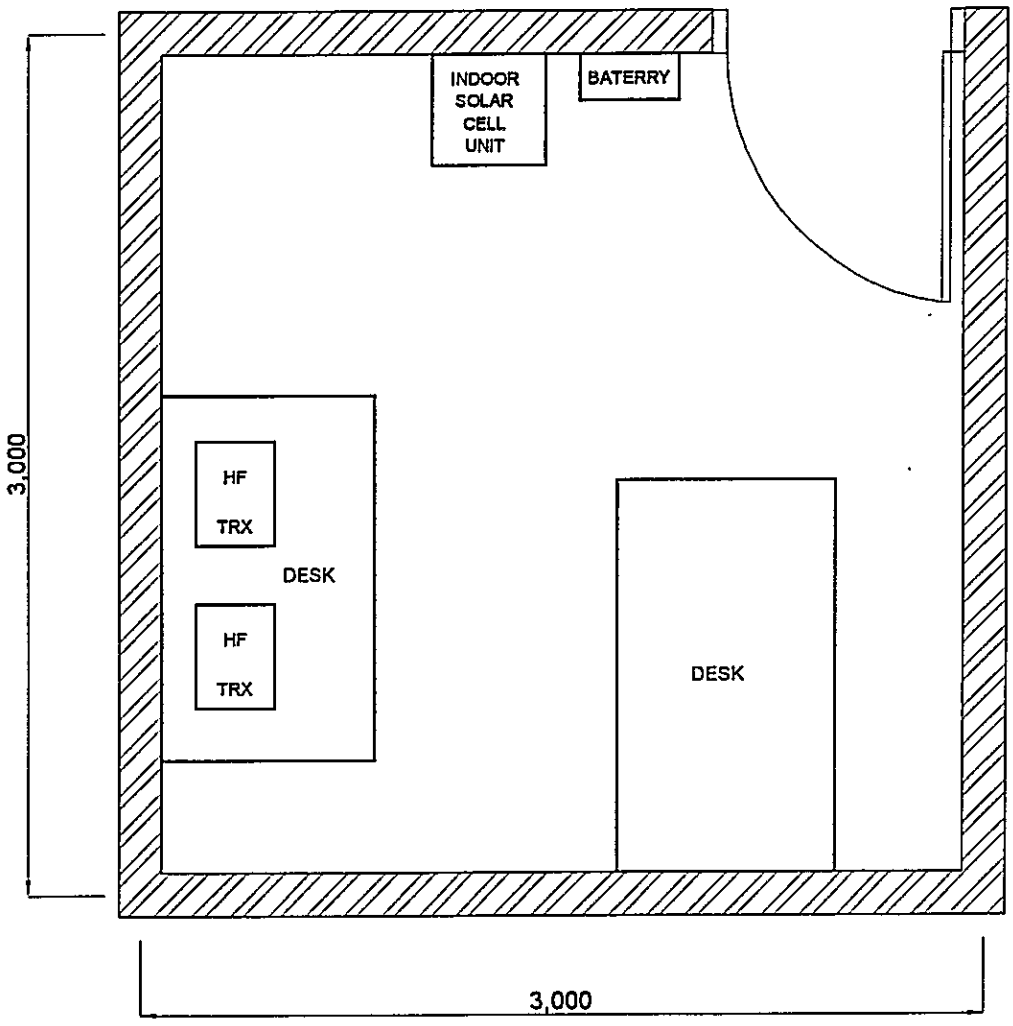
SANGKAPURA BAWEAN



APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 11, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: **BAWEAN**	
DIMENSION: Milimeter	DRAWING NO: SROP-BWA-101-2	
JICA –	PT. Aneka Asia Buana	



LEGEND

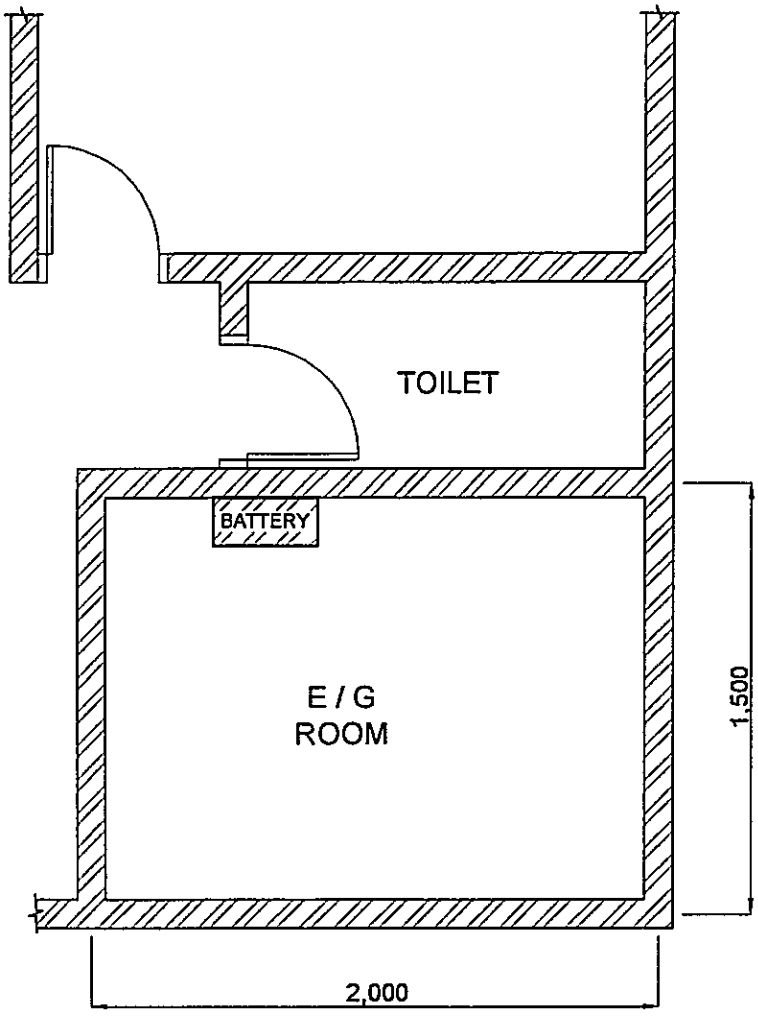
HF : HIGH FREQUENCY

TRX : TRANSCEIVER (ING)

DATE: July 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: BAWEAN	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,W,A,-,1,0,1,-,3,	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

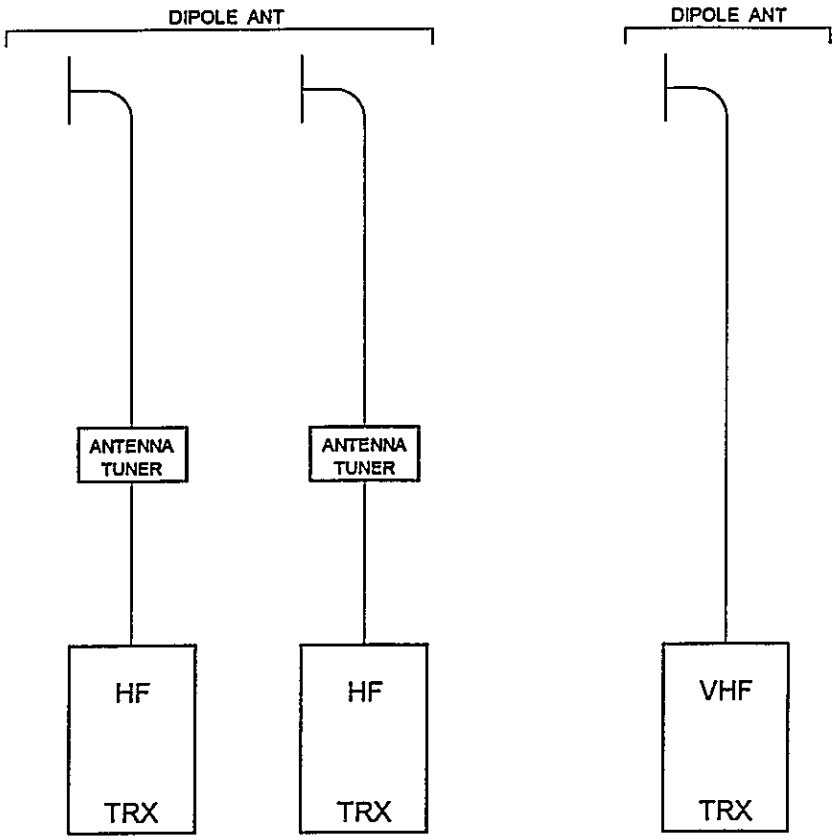
DRAWN BY AAB



DRAWN BY AAB

APPROVED BY JICA

DATE: July 01, 2001	DRAWING TITLE: E/G ROOM LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 25	SITE NAME: BAWEAN	
DIMENSION: Milimeter	DRAWING NO.: SROP - BWA - 101 - 4	
JICA - PT. Aneka Asia Buana		



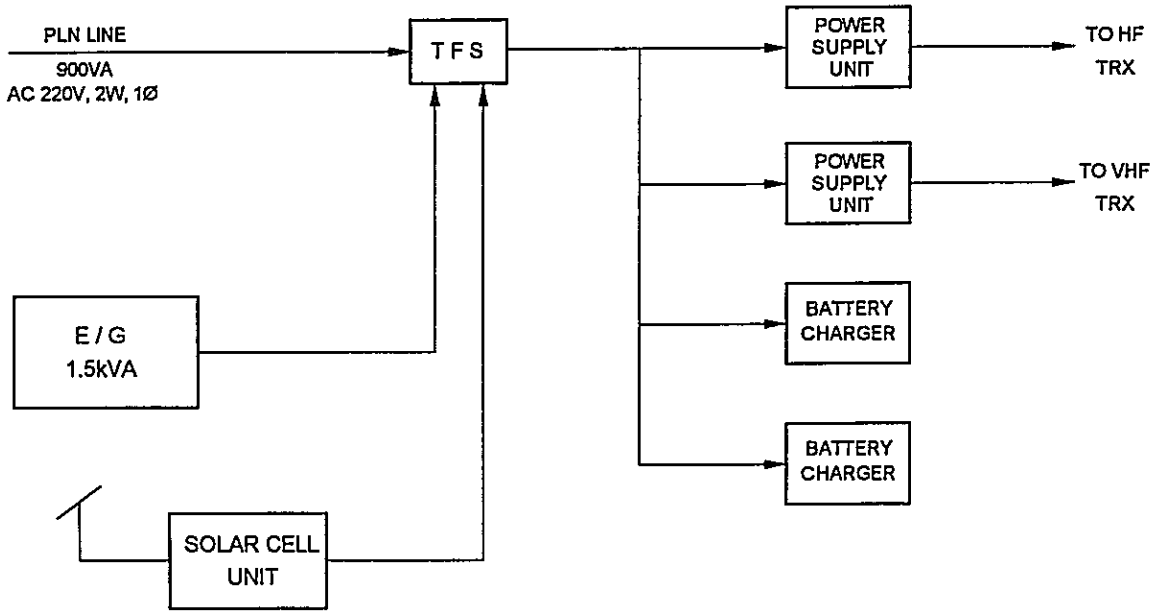
LEGEND

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

DATE: Sept 11, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BAWEAN	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,W,A,-,1,0,1,-,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
TRX	TRANSCEIVER
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: BAWEAN	
DIMENSION: Milimeter	DRAWING NO.: SROP-BWA-1016	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station
Pasuruan
(Coast Station No. 102)

Table of Content

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	PASURUAN		
CLASS	4th-A	NO.	102

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No. 158, Pasuruan			112° 55′ 03″ E	07° 37′ 56″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Surabaya [Taking time 1.00 hr.]	☑ Highway	☐ Heavy	☑ Hotel	80,000
By Car to Location [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
☑ 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	506.00 m²		☐ Lines	☑ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Roof Tile
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic
Room Area (m²)	
Operation room	6 00
E / G room	6 00
Remark	

3.3 Power Source

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

Quality of PLN source			
Fluctuations	220 V ± 10 %		
Availability of power per day	24 Hours		
Power interruption /month	4 Times		
Total interpt. hours /month	7 Hours		
Max. interpt. hours at once	3 Hours		

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

Capacity of fuel for engine	
Day tank	50 Liter
Main tank	0.5 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	Damaged by lightening
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)	()	()
Technician (skilled)	()	()
Administrator		
T o t a l	1	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	PASURUAN		
CLASS	4th-A	NO.	102

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: Pasuruan

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		Transceiver	PYE-130F	4140	Gambridge	1976			
2		Transceiver	FS-1000	SN 5590	Furuno	1987			
1-2		**Receiver**							
1		Receiver	FRG-7700	4F3DD108	Yaesu	1984			
2		**Others**							
1		Typewriter							

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Pasuruan

PSN-102-(1/1)

Call Sign : Mobile Service : PKD.42
Fix Service : 8AD28

	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		
4	6 510,0	J3E	100		
	Fix Service				
5	5.316,0	J3E	100		
6					
7					
8					
9					
10					
11					
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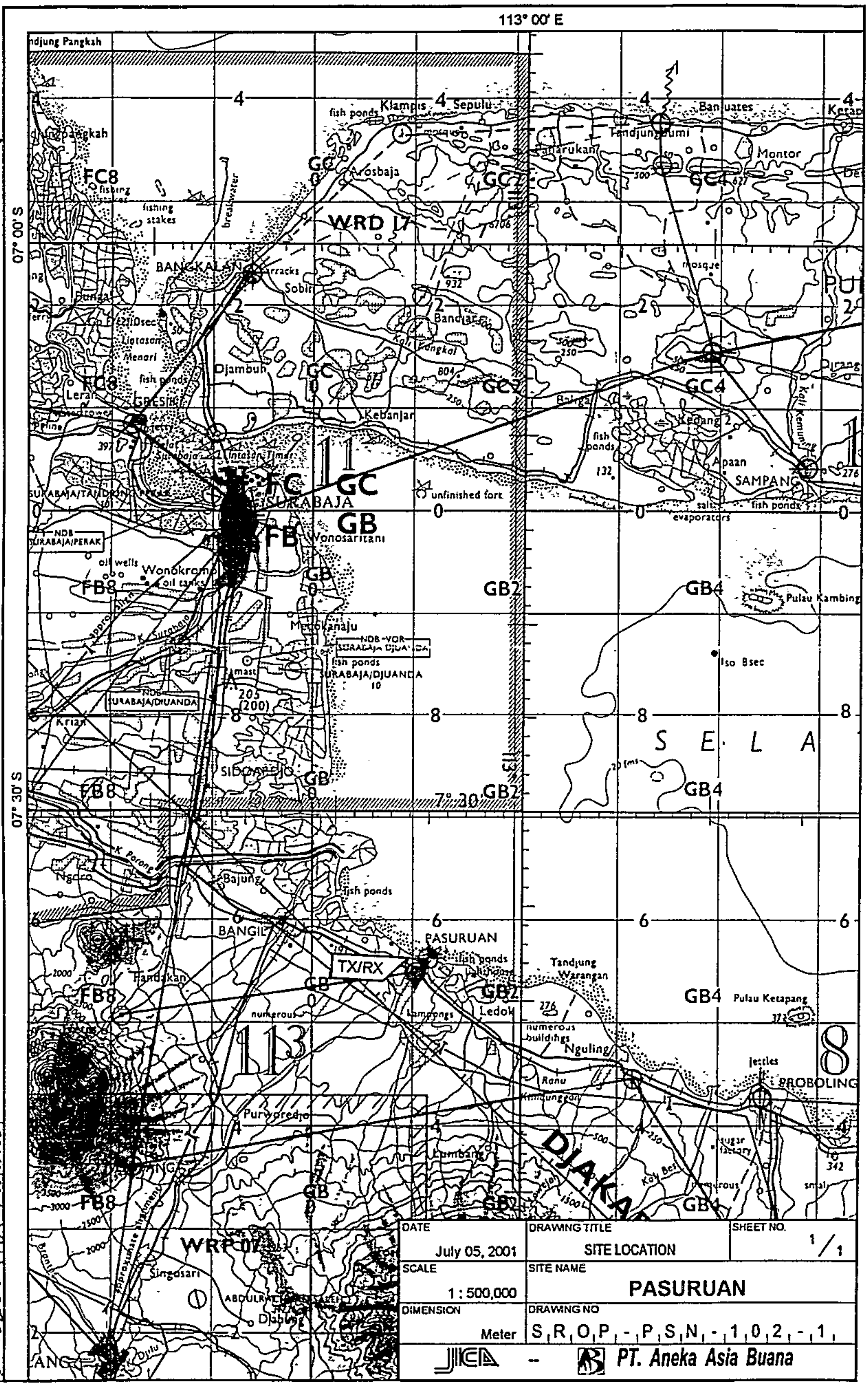
24					
25					



DATE	DRAWING TITLE	SHEET NO.
July 05, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 500,000	PASURUAN	
DIMENSION	DRAWING NO	
Meter	SROP-PSN-102-1	

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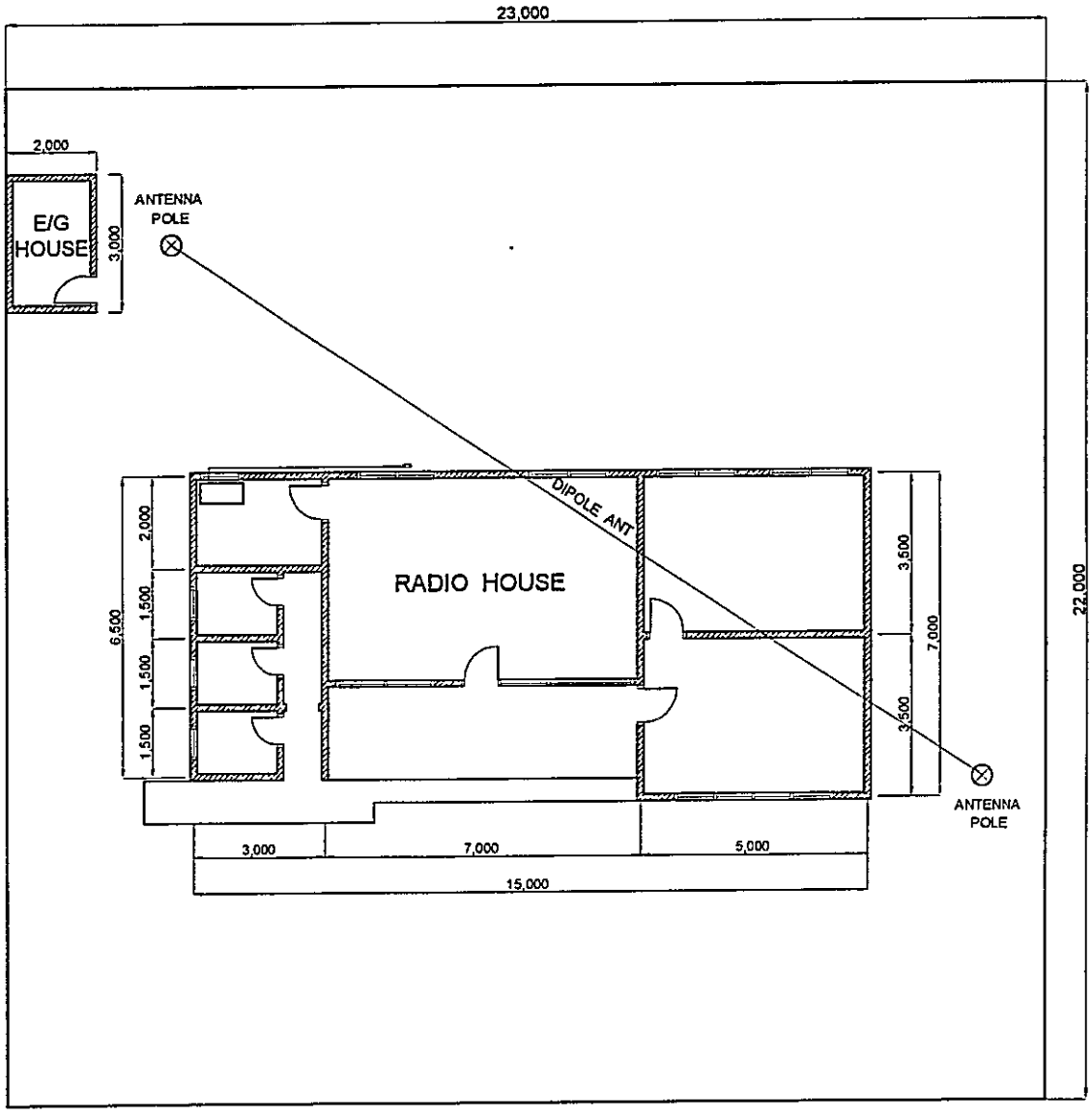
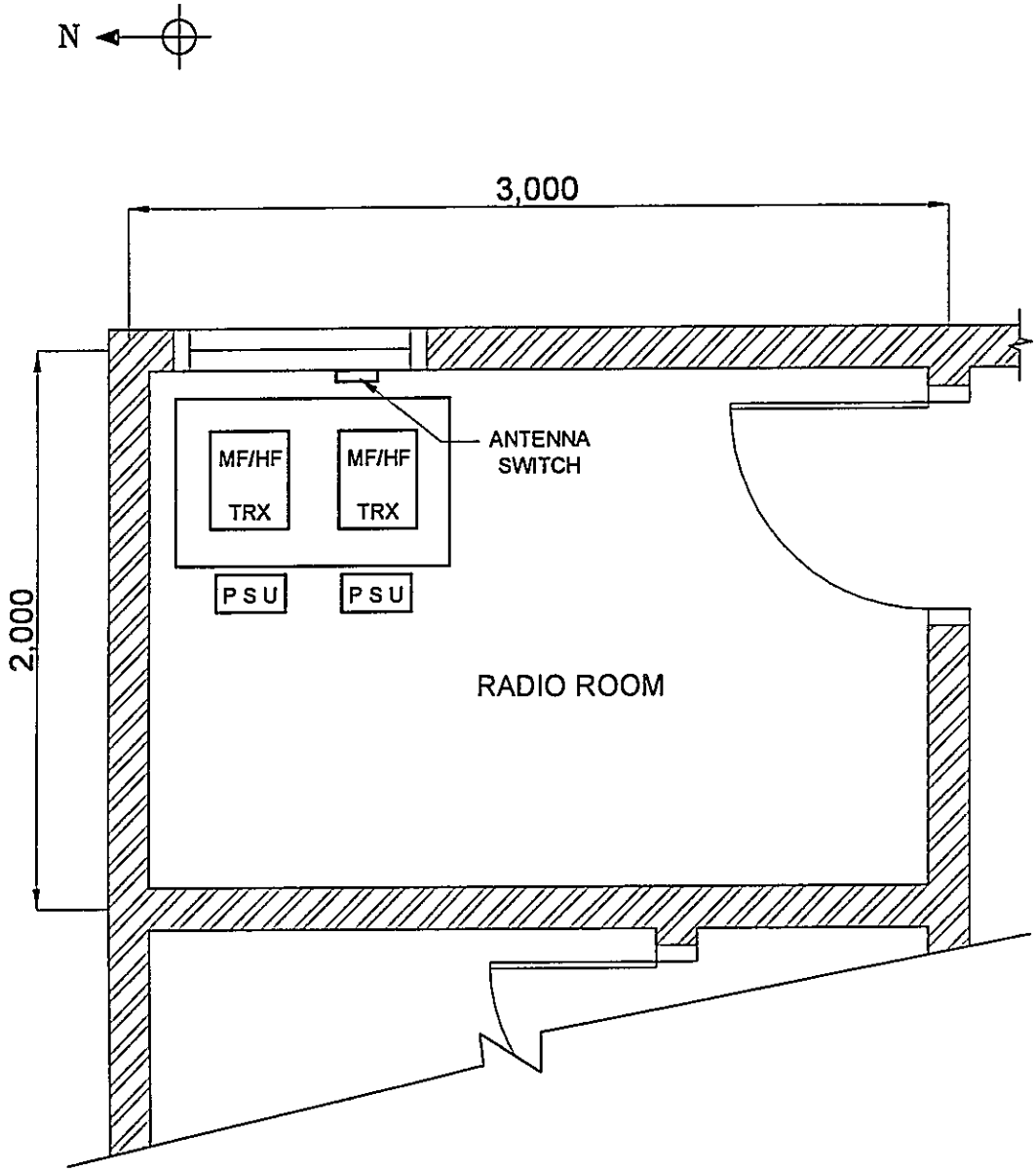
DRAWN BY AAB



DRAWN BY AAB | APPROVED BY JICA

DATE: August 01, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 150	SITE NAME: **PASURUAN**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,S,N,-,1,0,2,-,2	
JICA –	PT. Aneka Asia Buana	



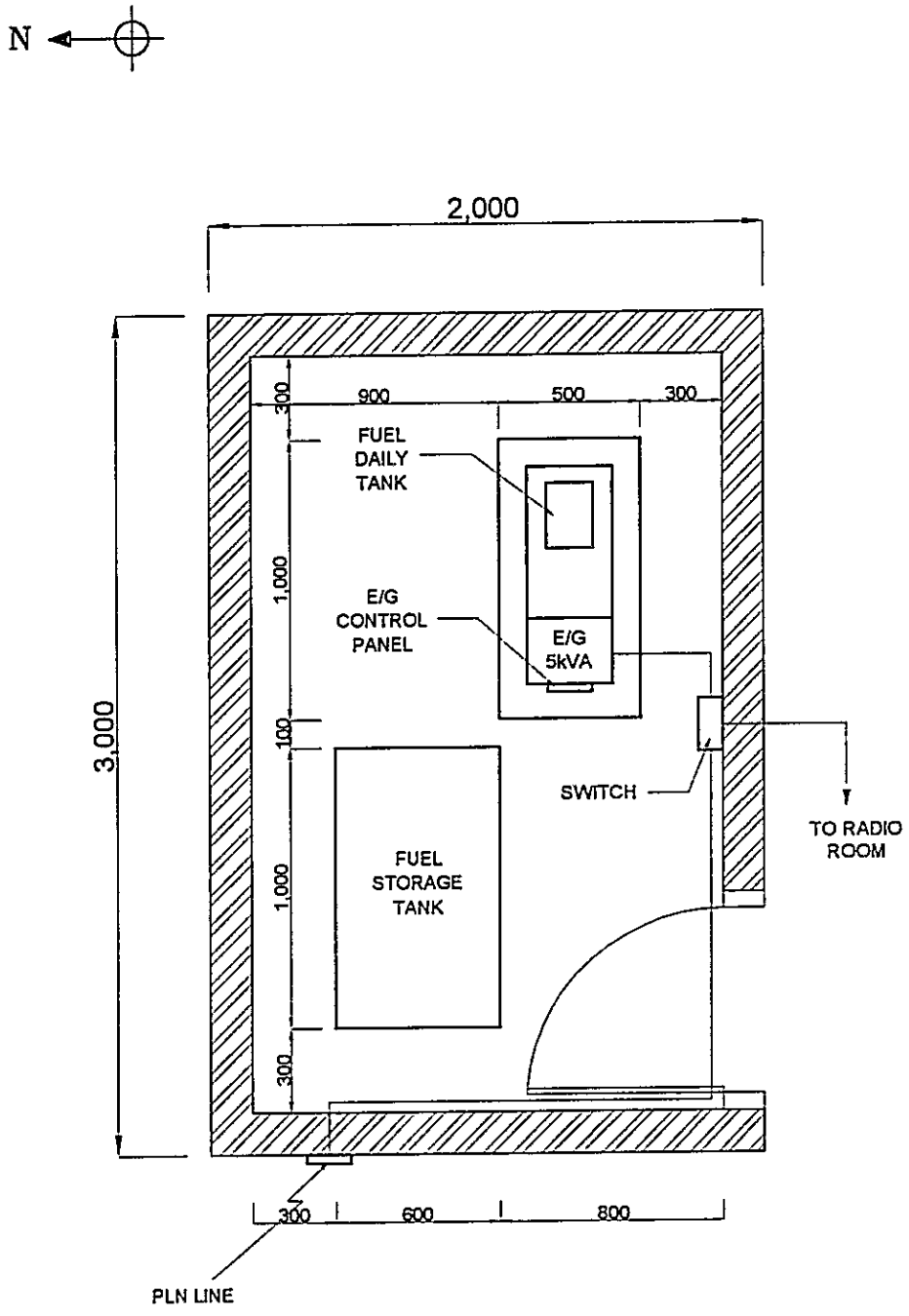
LEGEND

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

DATE: August 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: PASURUAN	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,P,S,N,-,1,0,2,-,3,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



LEGEND

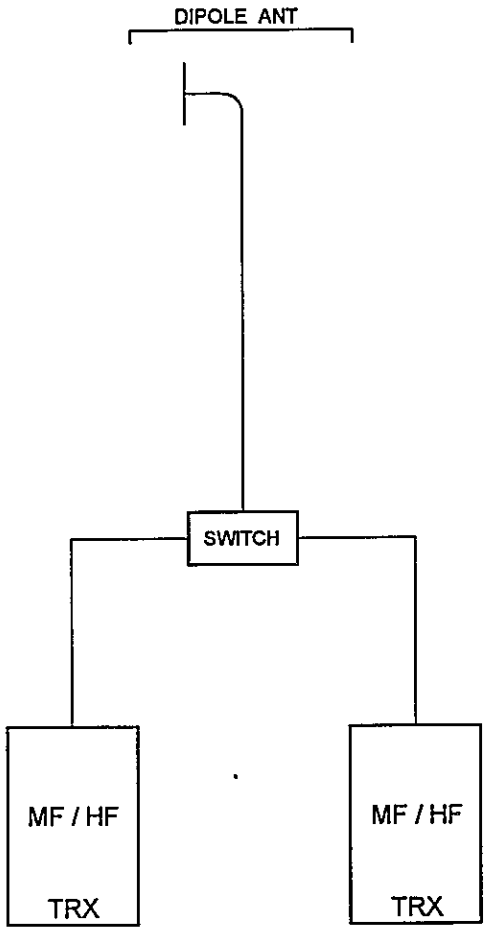
E/G : ENGINE GENERATOR

kVA : KILO VOLT AMPERE

DATE: Sept 11, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: PASURUAN	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,S N,-,1,0,2,-,4,	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



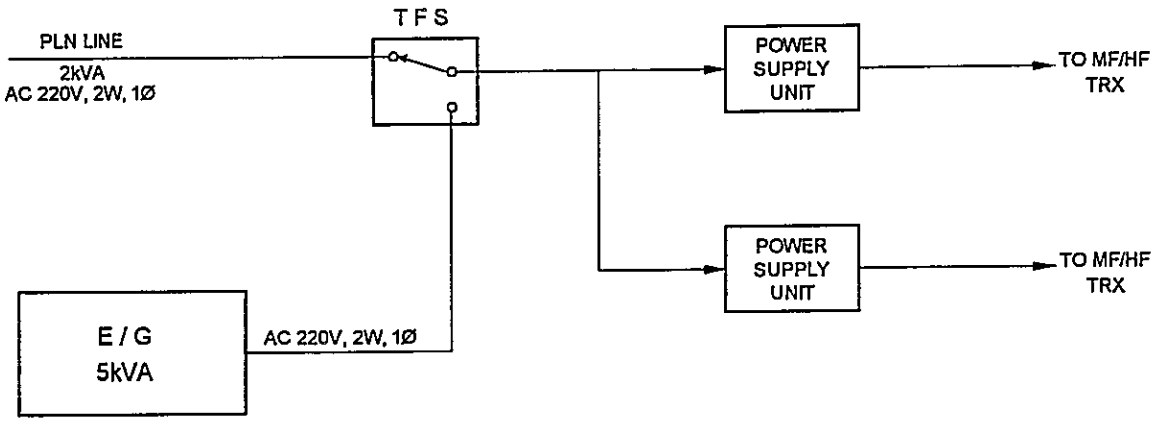
LEGEND

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

APPROVED BY JICA

DRAWN BY A&B

DATE: Sept 11, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PASURUAN	
DIMENSION: Milimeter	DRAWING NO: SROP-PSN-102-5	
JICA – PT. Aneka Asia Buana		



LEGEND

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

DRAWN BY A&B | APPROVED BY JICA

DATE: Sept 11, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1 / 1
SCALE: No Scale	SITE NAME: **PASURUAN**	
DIMENSION: Milimeter	DRAWING NO.: SRJOP-PSN-102-6	
JICA –	PT. Aneka Asia Buana	