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

1st Class Coast Station
Palembang
(Coast Station No. 52)

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	PALEMBANG		
CLASS	1st	NO.	52

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
RX	Jl. Sako Kenten	0711-810472		104° 46′ 30″ E	02° 58′ 47″ S
TX	Jl. Pendawa	0711-710916		104° 46′ 44″ E	02° 58′ 08″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Palembang [Taking time. 1.00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	4,000,000
By Car to Location [Taking time: 1.00 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				☑	☐	Lightning system
Altitude	11.00 M			Telephone Lines	☑	☐	Feeder Cable Way
Land area	14,000 m²			☑ 2 Lines	☐	☑	City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile
Room Area (m²)	
Operation room	72.00
E / G room	36.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	110 V
Phase	2	2
Wire	3	3
kVA	13.5	5

Quality of PLN source		
Fluctuations	5 V ± %	
Availability of power per day	24 Hours	
Power interruption /month	10 Times	
Total interpt. hours /month	30 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	25 Liter
Main tank	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	10.00 m			Telephone Lines	☑	☐	Feeder Cable Way
Land area	9,000 m²			☑ Lines	☑	☐	City water

SUMMARY OF COAST STATION

SITE	PALEMBANG		
CLASS	1st	NO.	52

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 V	220 V	Good Bad	
Structure	Concrete	Phase	3	3	☑ ☐ Power Supply System	
Type of roof	Roof Tile	Wire	4	4	☑ ☐ Operations of E/G	
Type of ceiling	Asbestos	kVA	50	50	☑ ☐ Operations of AVR	
Type of wall	Brick	Quality of PLN source			Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	10 V ± 4.5 %		Day tank	400 Liter
Flooring	Tile	Availability of power per day		24 Hours	Main tank	8 k Liter
Room Area (m²)		Power interruption /month		9 Times	E/G Stand-by System	
Operation room	96.00	Total interpt. hours /month		45 Hours	☐ Single System	
E / G room	49.00	Max. interpt. hours at once		12 Hours	☑ Dual System	
Remark						

5. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself or Disnav Office
Examples of major failure	Damaged by lightning
Sufficiency of spares	Generator

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☑ Lightning	VHF repeater	☑	☐	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)	18 (18)	()
Technician (skilled)	()	9 (9)
Administrator	2	
Total	21	9

Training Record				
Course	Class	Location	Period	Trainee
PRE	II			8
TTP	II			1
TTP	III			3
Oru	Oru			8

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	9				1991	350	1,575	740	1996	352	1,548	665
1997	11				1992	342	1,539	755	1997	345	1,552	726
1998	13				1993	351	1,579	721	1998	353	1,588	700
1999	12				1994	344	1,548	636	1999	340	1,53	660
2000	15				1995	355	1,597	665	2000	286	1,406	679

8. COMMENTS

Suggestion	IC Component Soldering tool is un-availabe, it one of the problem for repairing. Spare part and spare unit shall be supplied sufficienly to support communication, especially in Palembang which many lightning disturbance. Request for Technician/Operator training.
Remarks	

INVENTORY

Site Name: Palembang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		1KW Transmitter	JRS-108P	BS-62000	JRC	1987	F-TA-193-PH1		Damaged
2		1KW Transmitter	JRS-106NB	BS-61927	JRC	1987	F-TA-193-PH1		Damaged
3		1KW Transmitter	JRS-106NB	BS-61928	JRC	1987	F-TA-193-PH1		Good
4		1KW Transmitter	JRS-106NB	BS-61929	JRC	1987	F-TA-193-PH1		Good
5		1KW Transmitter	JRS-106NB	BS-61930	JRC	1987	F-TA-193-PH1		Good
6		1KW Transmitter	JRS-106NB	BS-61931	JRC	1987	F-TA-193-PH1		Damaged
1-2		**Supervisory Console**							
1		Supervisory Console	NCA-640	BP-90842	JRC	1987	F-TA-193-PH1		Good
2		Receiver	NRD-93		JRC	1987	F-TA-193-PH1		Good
3		TX Status Display	NCG-61F		JRC	1987	F-TA-193-PH1		Good
4		Antenna Status Display Panel	NCG-62C		JRC	1987	F-TA-193-PH1		Good
1-3		**Operator Console/Desk/Rack**							
1-3-1		**MF TG Console**							
1		MF TG Console	NCA-644	BP-90862	JRC	1987	F-TA-193-PH1		Good
2		Signal Controller	NQP-22		JRC	1987	F-TA-193-PH1		Damaged
3		Telecontroller	NCH-3001P		JRC	1987	F-TA-193-PH1		Good
4		500 KHz AA Receiver	JXA-15A		JRC	1987	F-TA-193-PH1		Good
5		Morse Tx	NGK-2		JRC	1987	F-TA-193-PH1		Good
1-3-2		**HF TG Console**			JRC	1987	F-TA-193-PH1		
1		HF TG Console	NCA-642		JRC	1987	F-TA-193-PH1		Good
2		Receiver	NRD-93		JRC	1987	F-TA-193-PH1		Good
3		Scanning Unit	NDH-93		JRC	1987	F-TA-193-PH1		Damaged
4		Signal Controller	NQP-22		JRC	1987	F-TA-193-PH1		Good
5		Telecontroller	NCH-300P		JRC	1987	F-TA-193-PH1		Good
1-3-3		**MF/HF TP Console**							
1		MF/HF TP Console	NCA-643		JRC	1987	F-TA-193-PH1		Good
2		Receiver	NRD-93		JRC	1987	F-TA-193-PH1		Good
3		Scanning Unit	NDH-93		JRC	1987	F-TA-193-PH1		Good
4		Signal Controller	NQP-21		JRC	1987	F-TA-193-PH1		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		Telecontroller	NCH-300P		JRC	1987	F-TA-193-PH1		Good
6		Telephone Repeater	NQQ-31A		JRC	1987	F-TA-193-PH1		Good
7		2182KHZ AA Receiver	JXA-8		JRC	1987	F-TA-193-PH1		Good
8		Receiver	NRD-93	BP-90862	JRC	1987	F-TA-193-PH1		Good
9		Receiver	NRD-93	BP-90862	JRC	1987	F-TA-193-PH1		Damaged
10		Receiver	NRD-93		JRC	1987	F-TA-193-PH1		Damaged
11		Receiver	NRD-93	BP-90843	JRC	1987	F-TA-193-PH1		Good
1-3-4		**FIX COM Console**							
1		FIX Com Console	NCA-647A		JRC	1987	F-TA-193-PH1		Good
2		Receiver	NRD-93		JRC	1987	F-TA-193-PH1		Good
3		Signal Controller	NQP-21		JRC	1987	F-TA-193-PH1		Good
4		Telecontroller	NCH-300P		JRC	1987	F-TA-193-PH1		Good
5		Lincompex	NZA-15		JRC	1987	F-TA-193-PH1		Damaged
6		ARQ	NCL-550A		JRC	1987	F-TA-193-PH1		Good
7		Telephone Repeater	NQQ-31A		JRC	1987	F-TA-193-PH1		Good
8		Teleprinter	T-10000S		JRC	1987	F-TA-193-PH1		Damaged
9		Common Repeater	NQQ-18G		JRC	1987	F-TA-193-PH1		Good
1-3-5		**Connection Rack**							
1		Connection Rack	GED-1086B	BP-00948	JRC	1987	F-TA-193-PH1		Good
1-4		**VHF System**							
1		VHF Console	GFD-501YB(D)		JRC	1987	F-TA-193-PH1		Good
2		VHF Radio Telephone	JHV-227YA		JRC	1987	F-TA-193-PH1		Damaged
1-5		**UHF/SHF Link**							
1		UHF Radio Link	JUF-450		JRC	1987	F-TA-193-PH1		Good
2		UHF Radio Link	JUF-802	EM-11802	JRC	1987	F-TA-193-PH1		Damaged
3		Multiplex Terminal	JUF-5A		JRC	1987	F-TA-193-PH1		Good
4		Multiplex Terminal	JUF-5A		JRC	1987	F-TA-193-PH1		Good
5		400 MHz Arrester	NVZ-400		JRC	1987	F-TA-193-PH1		Good
6		800 MHz Arrester	GZAND-00002		JRC	1987	F-TA-193-PH1		Good
7		UHF Radio Link	JUP-450	EM-11766	JRC	1987	F-TA-193-PH1		Good

INVENTORY

Site Name: Palembang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2		Tower & Antenna System							
2-1		Tower & Mast							
		TX Station							
1		Tower & MF Antenna			JRC	1987	F-TA-193-PH1		Good
2		Tower & HF Antenna			JRC	1987	F-TA-193-PH1		Good
3		Tower & HF Antenna			JRC	1987	F-TA-193-PH1		Good
4		Tower & HF Antenna			JRC	1987	F-TA-193-PH1		Good
5		30M Antenna Tower			JRC	1987	F-TA-193-PH1		Good
6		30M Antenna Tower			JRC	1987	F-TA-193-PH1		Good
7		30M Antenna Tower			JRC	1987	F-TA-193-PH1		Good
8		30M Antenna Tower			JRC	1987	F-TA-193-PH1		Good
9		30M Antenna Tower			JRC	1987	F-TA-193-PH1		Good
10		25M Antenna Tower			JRC	1987	F-TA-193-PH1		Good
11		65M Self Supporting Tower			JRC	1987	F-TA-193-PH1		Good
		RX Station							
12		800 MHz Antenna Tower			JRC	1987	F-TA-193-PH1		Good
13		400MHz Antenna Tower			JRC	1987	F-TA-193-PH1		Good
14		VHF Antenna Tower			JRC	1987	F-TA-193-PH1		Good
2-2		Antenna System							
		TX Station							
1		T Type Antenna			JRC	1987	F-TA-193-PH1		Good
2		Fan Antenna			JRC	1987	F-TA-193-PH1		Good
3		Omni Directional Antenna			JRC	1987	F-TA-193-PH1		Damaged
4		Multi Doublet Antenna			JRC	1987	F-TA-193-PH1		Not used
5		6.OHM GP Antenna	NAU-803-060B		JRC	1987	F-TA-193-PH1		Good
		RX Station							
6		Doublet Antenna			JRC	1987	F-TA-193-PH1		Good
7		Active Antenna			England	1987	F-TA-193-PH1		Damaged
8		Inverted "L" Antenna			JRC	1987	F-TA-193-PH1		Good
9		Yagi Antenna			JRC	1987	F-TA-193-PH1		Good
10		Active Antenna	HE-005		JRC	1987	F-TA-193-PH1		Good
11		Dipole Antenna	AE-183E		JRC	1987	F-TA-193-PH1		Good
12		6.OHM GP Antenna			JRC	1987	F-TA-193-PH1		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2-3		**Antenna Switch**							
1		Antenna Changer Rack	GJD-131E		JRC	1987	F-TA-193-PH1		Good
2		Antenna Changer	NQA-80B		JRC	1987	F-TA-193-PH1		Good
3		Antenna Changer	NQA-80B		JRC	1987	F-TA-193-PH1		Good
4		Antenna Changer	NQA-80B		JRC	1987	F-TA-193-PH1		Good
5		Antenna Exchanger	NKZ-223		JRC	1987	F-TA-193-PH1		Damaged
		Antenna Selector							
6		Antenna Multicoupler	NAF-80FA		JRC	1987	F-TA-193-PH1		Good
7		Antenna Multicoupler	NAF-80FA		JRC	1987	F-TA-193-PH1		Good
8		Antenna Multicoupler	NAF-80FA		JRC	1987	F-TA-193-PH1		Good
2-4		**Antenna Matching Unit**							
1		Antenna Matching Unit	NFG-2C		JRC	1987	F-TA-193-PH1		Damaged
2		Antenna Matching Unit	NFG-3CA		JRC	1987	F-TA-193-PH1		Damaged
3		Matching Unit Controlle	NCN-134F	BP-91387	JRC	1987	F-TA-193-PH1		Damaged
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		Power Distribution Board	NCB-432	BP-10062	JRC	1969			Good
2		PDB For RX Station	NBJ-223B		JRC	1987	F-TA-193-PH1		Good
3		PDB For RX Station	NBJ-223A		JRC	1987	F-TA-193-PH1		Good
3-2		**Step-Up Transformer**							
1		50 KVA Step Up Transformer	LVED-000388		JRC	1987	F-TA-193-PH1		Good
2		5 KVA Step Up Transformer	LVD-00393		JRC	1987	F-TA-193-PH1		Good
3-3		**UPS & AVR System**							
1		AVR	NBZ-262	BP-10081	JRC	1969			Good
2		AVR 7.5 KVA	6ERED00018	525644	JRC	1987	F-TA-193-PH1		Good
3		Battery			GS				Good
4		Battery Charger							Good
3-4		**Engine Generator**							
1		Engine	4LG	4274	Kubota	1969			Good
2		Engine	4LG	4275	Kubota	1969			Good
3		Engine	4LG	4294	Kubota	1969			Good
4		Engine	4LG	4275	Kubota	1969			Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		Engine	ER-90N	6049	Kubota	1969			Good
6		Engine	ER-90N	6046	Kubota	1969			Damaged
7		Engine	F2L912	SN.0213787C	Mitsuiduse	1987	F-TA-193-PH1		Good
8		Engine	F2L912	SN 0213788C	Mitsuiduse	1987	F-TA-193-PH1		Damaged
9		Engine	F2L912	SN.0213789C	Mitsuiduse	1987	F-TA-193-PH1		Good
10		Generator	CR-5500	17194	Taiyo	1969			Good
11		Generator	CR-5500	17195	Taiyo	1969			Good
12		Generator	CR-5500	51267	Osaka	1969			Good
13		Generator	CR-5500	51268	Osaka	1969			Good
14		Generator	T7/5 18C	G1-13575	Brushless	1987	F-TA-193-PH1		Good
15		Generator	T7/5 18C	G1-13577	Brushless	1987	F-TA-193-PH1		Damaged
16		Generator	T7/5 18C	G1-13576	Brushless	1987	F-TA-193-PH1		Good
17		Engine Stop Panel			Kubota	1979			Damaged
18		Alarm Panel			Kubota	1979			Damaged
19		Fuel Day Tank							Good
20		Main Fuel Tank							Good
4		**Measuring Equipment**							
1		Oscilloscope	2235		Tetronic	1987	F-TA-193-PH1		Damaged
2		Frequency Counter	MF-57A	M-81436	Anritsu	1987	F-TA-193-PH1		Good
3		RF Signal Generator	MG-3601A		Anritsu	1987	F-TA-193-PH1		Good
4		Audio Distortion Meter	796F			1987	F-TA-193-PH1		Good
5		Spectrum Analyzer	MS-62B			1987	F-TA-193-PH1		Good
6		Multi Meter	3010			1987	F-TA-193-PH1		Damaged
7		Field Strength Meter	M-262E			1987	F-TA-193-PH1		Good
8		Electronic Volt Meter	ML-69A			1987	F-TA-193-PH1		Good
9		VHF Output Testing Equipment	MS-52B			1987	F-TA-193-PH1		Good
10		Power Meter	TP-513A		Fujisoku	1987	F-TA-193-PH1		Good
11		Circuit Tester	AX-303TR			1987	F-TA-193-PH1		Damaged
12		Power Meter	TP-5J1A		Fujisoku	1987	F-TA-193-PH1		Good
13		Power Meter	TP-5R2Z			1987	F-TA-193-PH1		Good
14		Signal Generator	MG-54D		Anritsu	1987	F-TA-193-PH1		Good
15		Signal Generator	MG-045B		Anritsu	1987	F-TA-193-PH1		Good

INVENTORY

Site Name: Palembang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
16		Transmission Measuring Set	ME-446A			1987	F-TA-193-PH1		Good
17		Frequency Counter	TR-5823	7057035L	Advantest	1987	F-TA-193-PH1		Good
18		Selective Level Meter	AD-7530			1987	F-TA-193-PH1		Good
19		Circuit Tester	AX-303TR			1987	F-TA-193-PH1		Good
20		Transmission Measuring Set	ME-446A			1987	F-TA-193-PH1		Good
21		Frequency Counter	TR-5823	7057035D		1987	F-TA-193-PH1		Good
22		Attenuator				1987	F-TA-193-PH1		Good
23		Directional Coupler	MA-52A			1987	F-TA-193-PH1		Good
5		**Others**							
1		Air Conditioner			National				Damaged
2		Air Conditioner			National				Damaged
3		Air Conditioner			National				Good
4		Air Conditioner			National				Good
5		Psophometric Weighting Network	NJM-776B		JRC	1987	F-TA-193-PH1		Good
6		Tool Kit	Z-PED0002		JRC	1987	F-TA-193-PH1		Damaged
7		Tool Kit	ND-XP-217A-74		JRC	1987	F-TA-193-PH1		Damaged
8		Motor Drive Wire Wrapper	EW-7D		JRC	1987	F-TA-193-PH1		Good
9		Dummy Load	DL-102A-SJ-A		JRC	1987	F-TA-193-PH1		Good
10		Telex on Radio	T-1000S	1-NR IIC/V1025C	Siemens	1987	F-TA-193-PH1		Damaged

STATUS OF TROUBLES

SITE NAME : PALEMBANG **PLB-52-(1/1)**

Item / Equipment	Telex and Radio, Engine Control Unit, Station Relay Tg. Buyut / -		
Manufacturer	JRC		
Manufacturer in year	1987		
Defective panel / unit	Control Panel Station, Relay Tg. Buyut		
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:

Periodical Maintenance, Cleaning Service and Procedure, Maintenance and others but difficult to find out spare parts

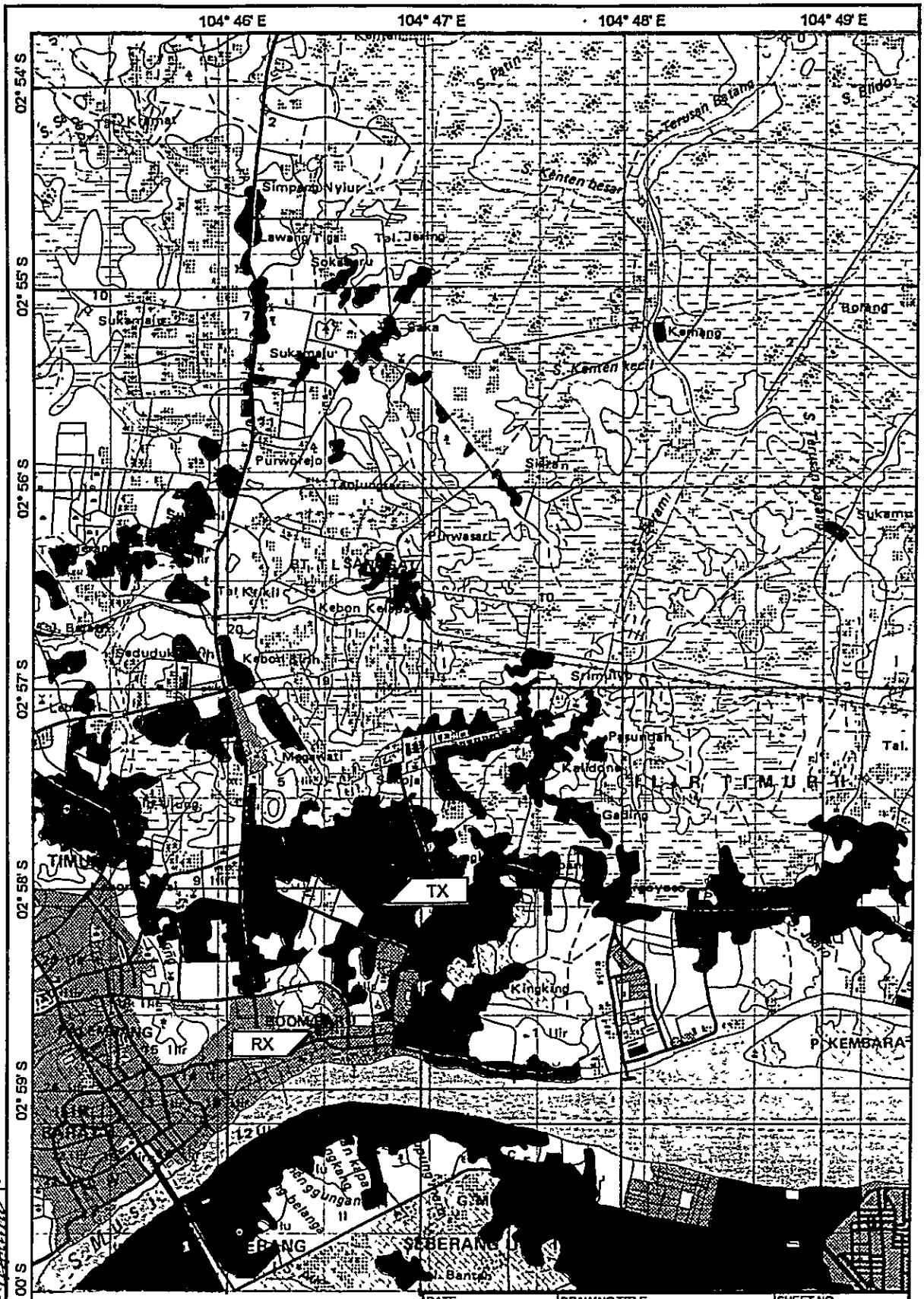
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Palembang

PLB-052-(1/1)

Call Sign : Mobile Service : PKC
Fix Service :

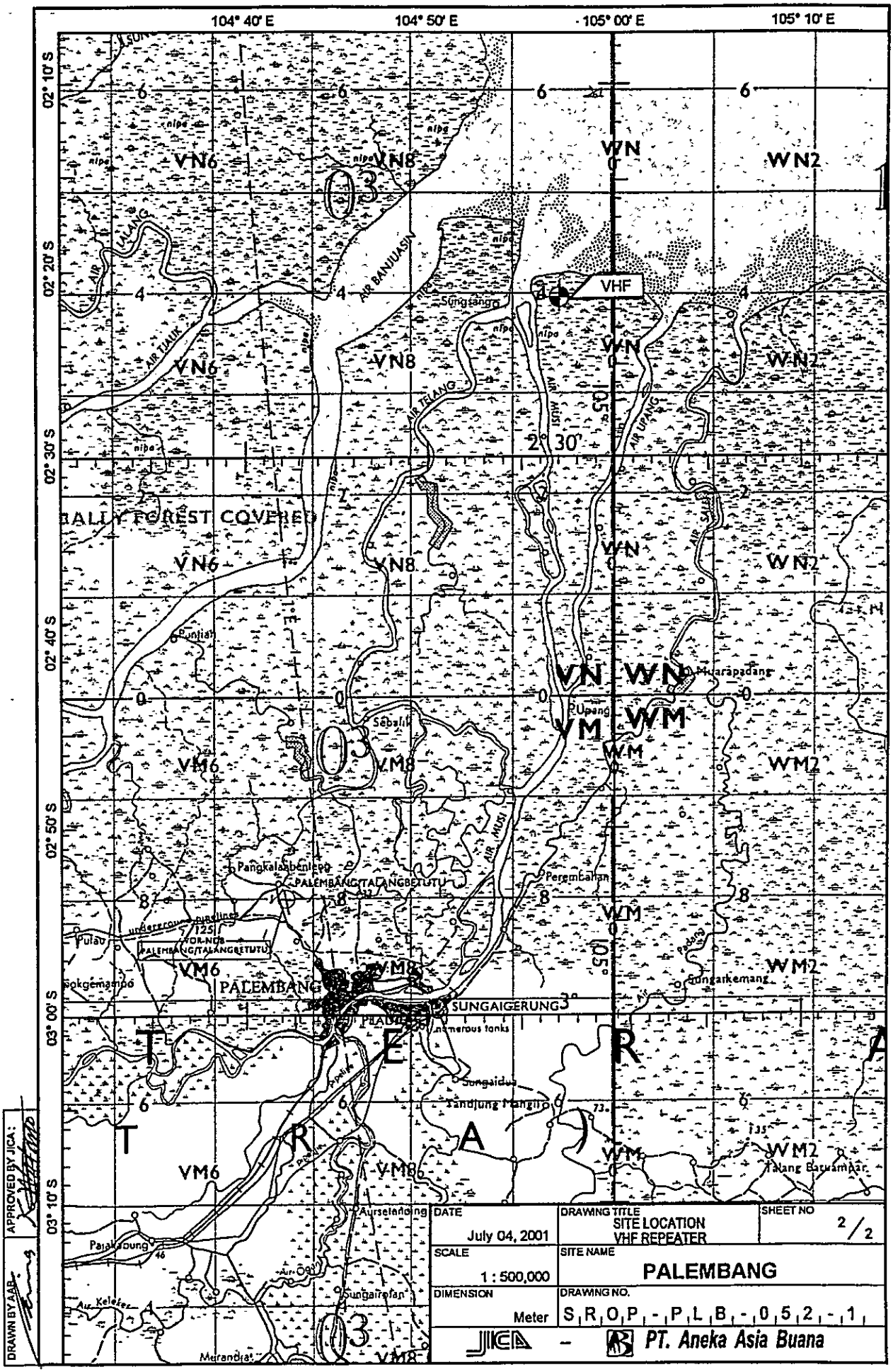
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	448,0	A1A	1000		
2	500,0	A1A	1000		
3	6 491,5	A1A	1000		
4	8 705,4	A1A	1000		
5	2.182,0	J3E	700		
6	2.690,0	J3E	700		
7	2 615,0	J3E	700		
8	6 510,0	J3E	700		
9	8 806,0	J3E	700		
	VHF Service				
10	Channel-16	G3E	50		
11	Channel-20	G3E	50		
12	Channel-22	G3E	50		
13	Channel-26	G3E	50		
14	Channel-28	G3E	50		
	Fix Service				
15	8 110,0	A1A	1000		
16	5 381,5	J3E	1000		
17	6 926,0	J3E	1000		
18	9 925,0	J3E	1000		
19					
20					
21					
22					
23					



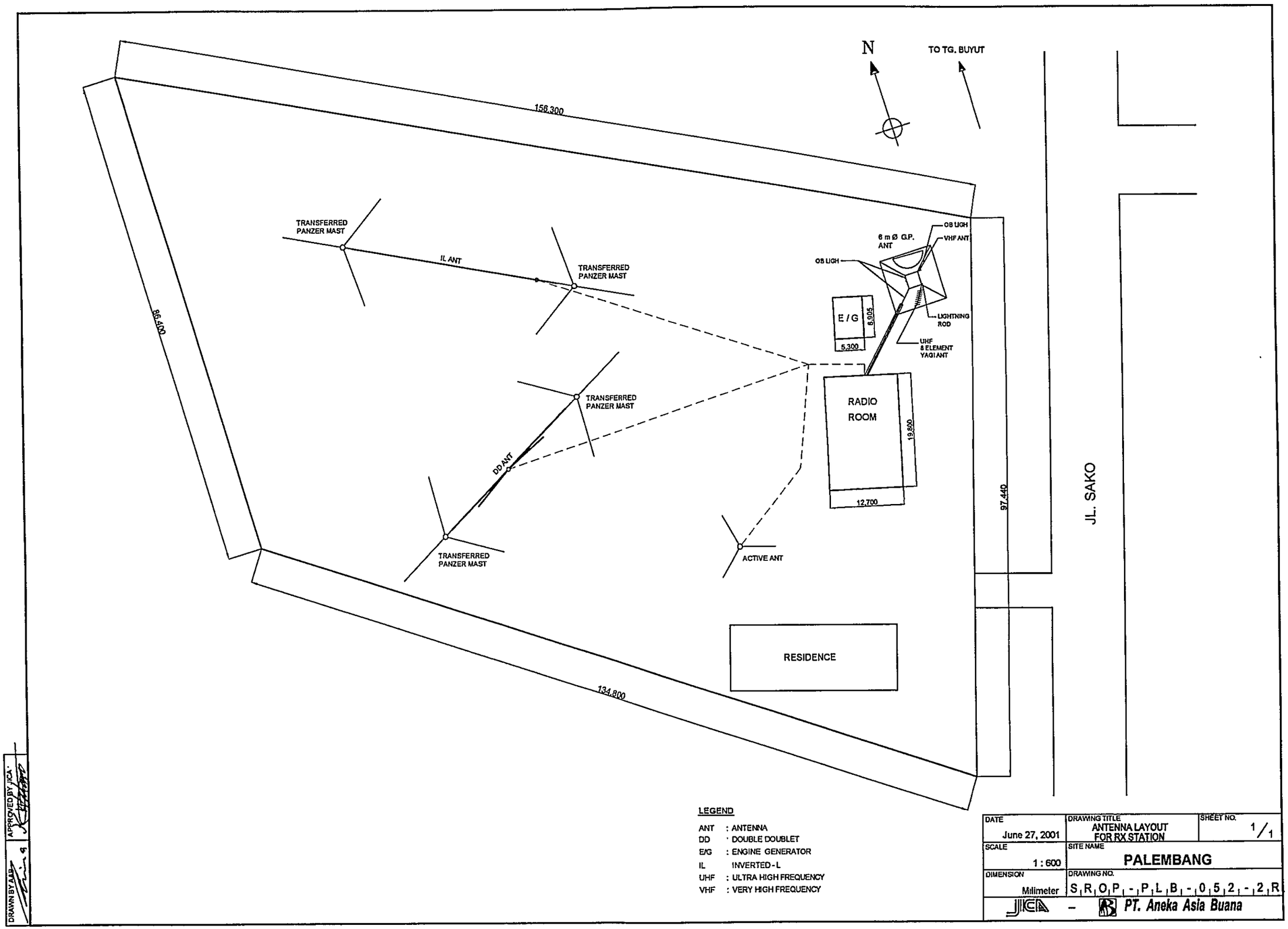
DATE: July 04, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/2
SCALE: 1 : 50,000	SITE NAME: PALEMBANG	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,P,L,B,-,0,5,2,-,1	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA:

DRAWN BY AAB:



APPROVED BY JICA:		
DRAWN BY AAB	DATE: July 04, 2001	DRAWING TITLE: SITE LOCATION VHF REPEATER
	SCALE: 1 : 500,000	SITE NAME: PALEMBANG
	DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,P,L,B,-,0,5,2,-,1
	JICA – PT. Aneka Asia Buana	SHEET NO: 2/2



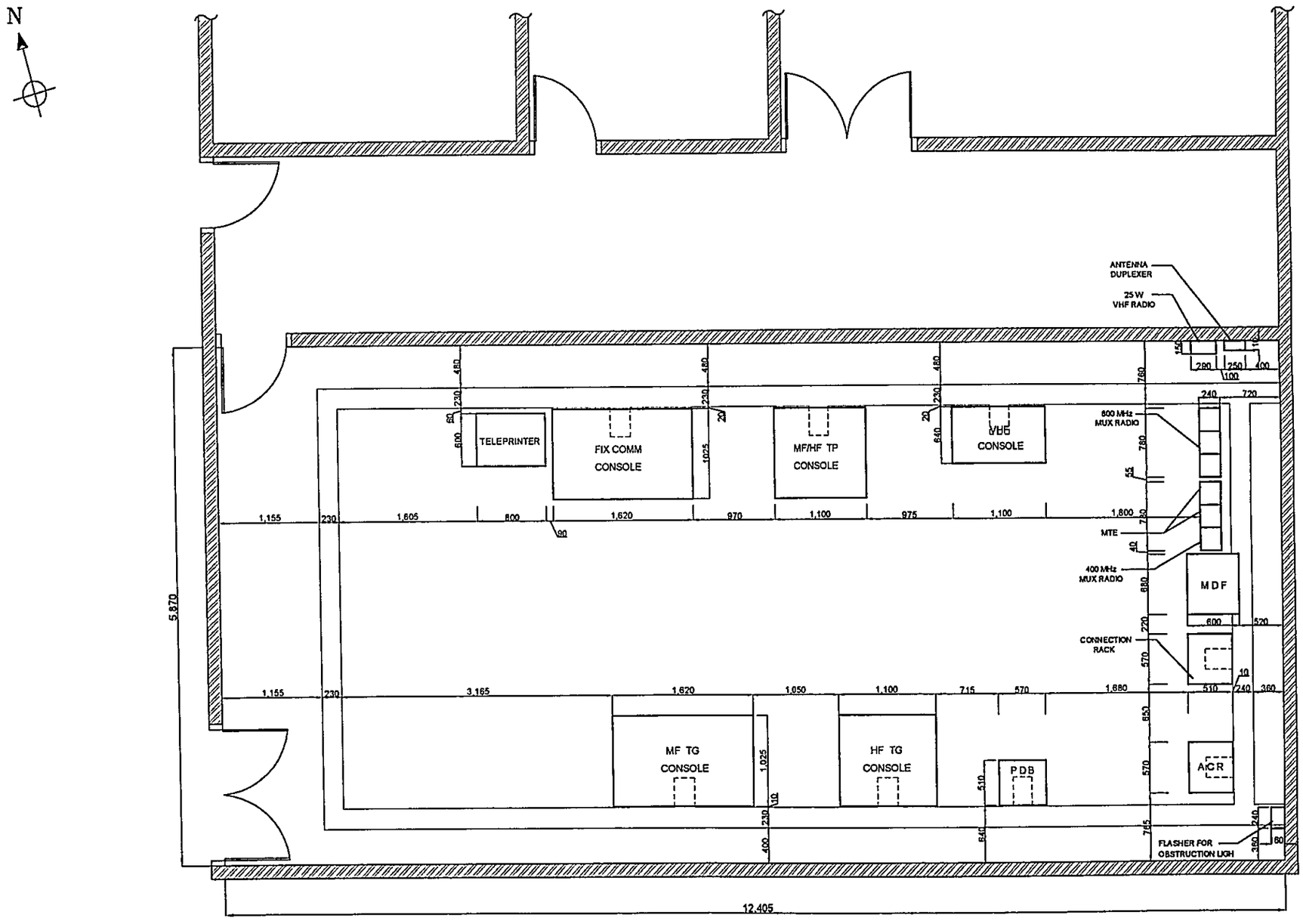
LEGEND

ANT : ANTENNA
DD : DOUBLE DOUBLET
E/G : ENGINE GENERATOR
IL : INVERTED-L
UHF : ULTRA HIGH FREQUENCY
VHF : VERY HIGH FREQUENCY

DRAWN BY AAB
APPROVED BY JICA

DATE: June 27, 2001	DRAWING TITLE: ANTENNA LAYOUT FOR RX STATION	SHEET NO.: 1/1
SCALE: 1 : 600	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO.: SROP-PLB-052-2R	

JICA – PT. Aneka Asia Buana



LEGEND

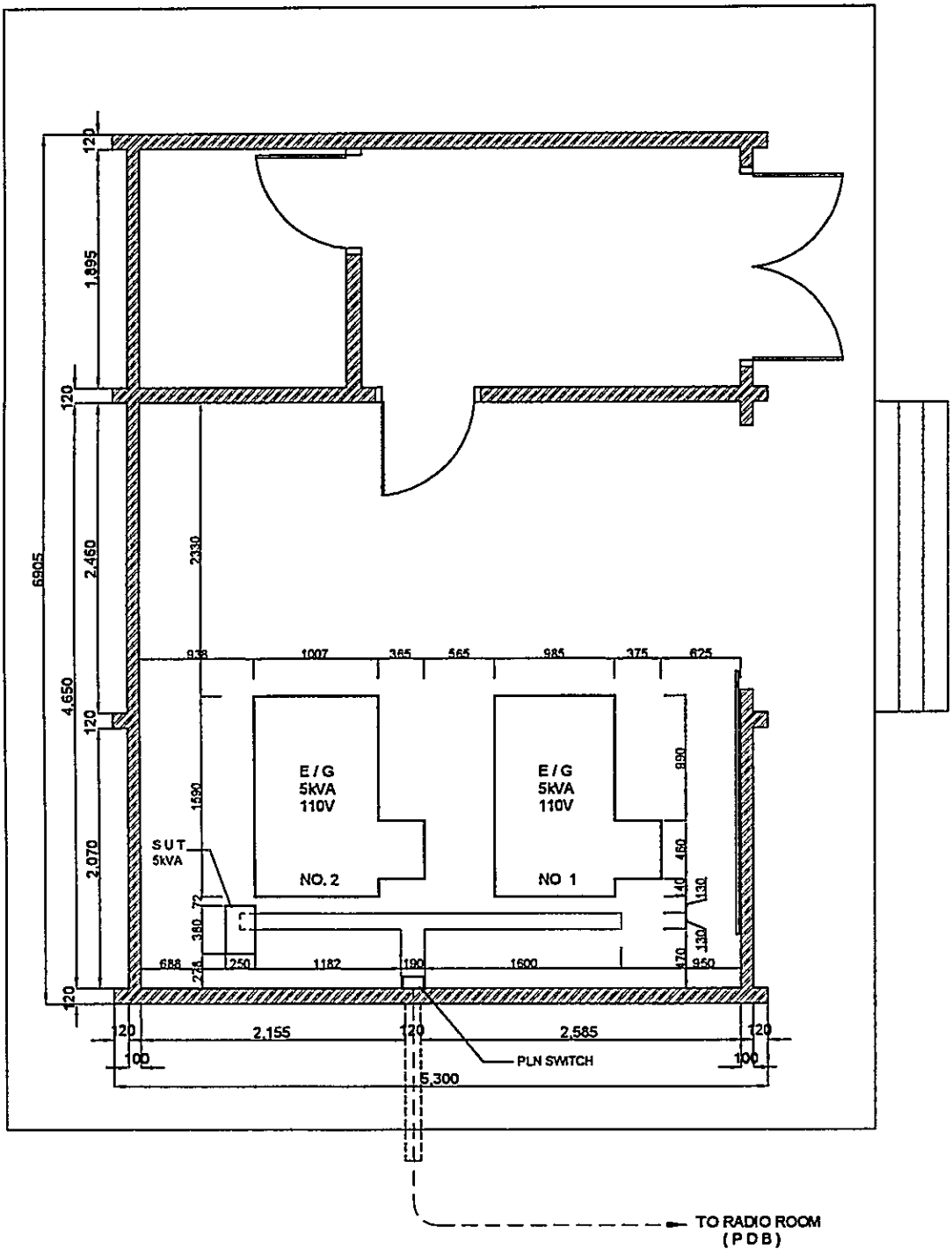
ACR	: ANTENNA CHARGER RACK	TG	: TELEGRAPHY
FIX	: FIX COMMUNICATION	TP	: TELEPHONY
HF	: HIGH FREQUENCY	VHF	: VERY HIGH FREQUENCY
MF	: MEDIUM FREQUENCY	W	: WIRE, WATT
MDF	: MAIN DISTRIBUTION FRAME		
PDB	: POWER DISTRIBUTION BOARD		

DRAWN BY AAB

APPROVED BY JICA

DATE: June 27, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT FOR RX STATION	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: PALEMBANG	
DIMENSION: Millimeter	DRAWING NO.: SROP-PLB-052-3R	

JICA – PT. Aneka Asia Buana



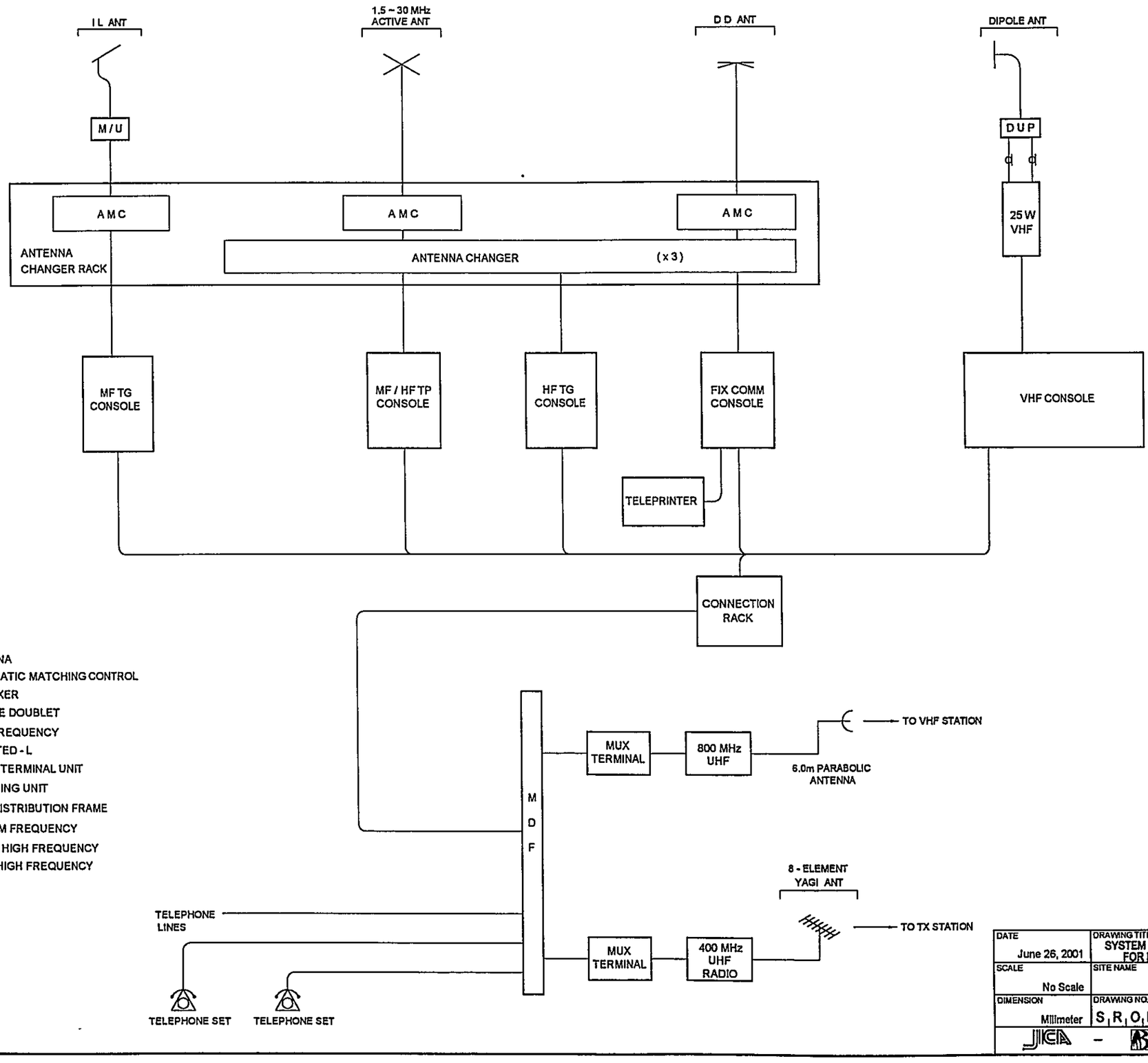
LEGEND

E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE
SUT : STEP - UP TRANSFORMER

DATE: June 27, 2001	DRAWING TITLE: E/G FLOOR LAYOUT FOR RX STATION	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO: SRO P-PLB-052-4R	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB

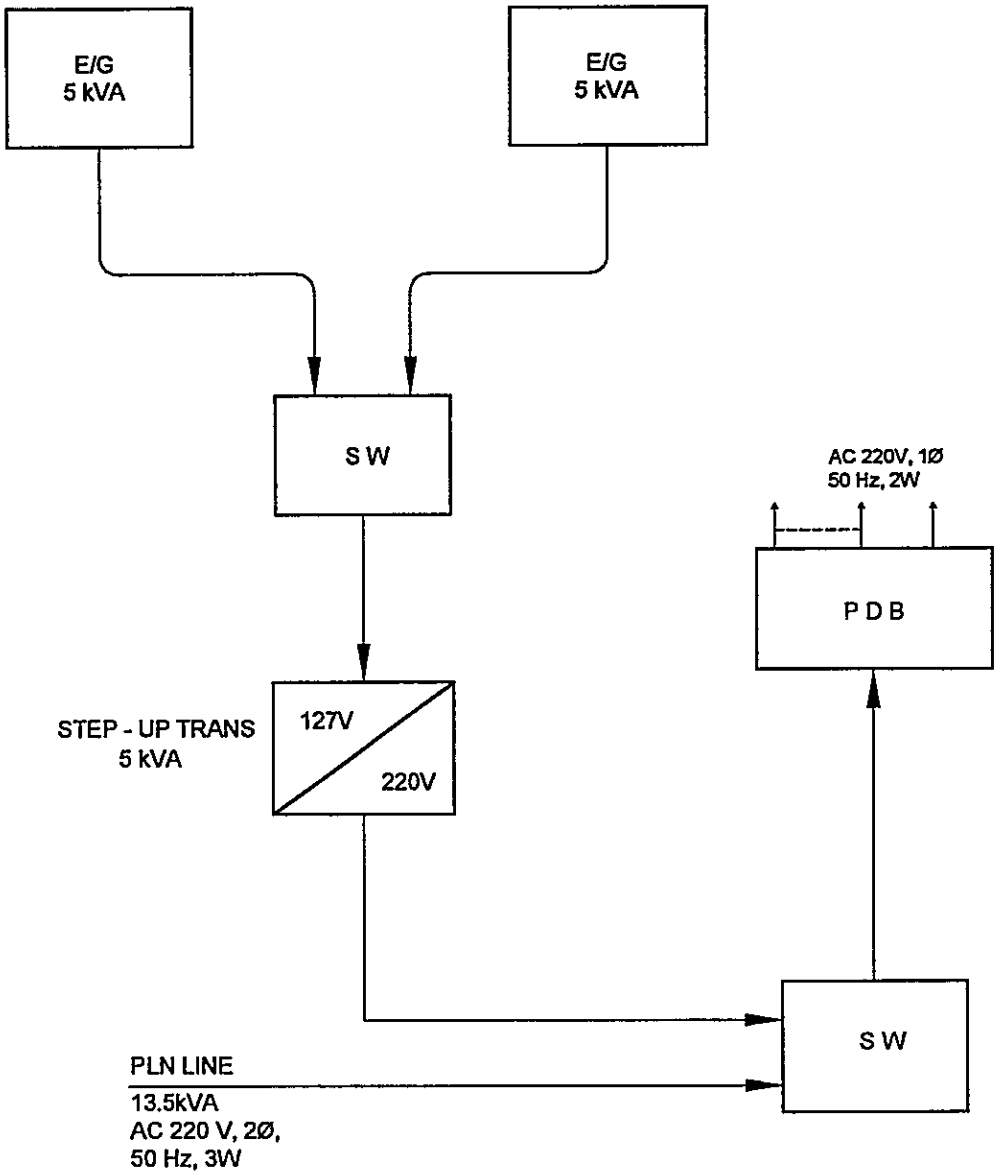


LEGEND

ANT. : ANTENNA
AMC : AUTOMATIC MATCHING CONTROL
DUP : DUPLEXER
DD : DOUBLE DOUBLET
HF : HIGH FREQUENCY
I L : INVERTED - L
LTU : LOCAL TERMINAL UNIT
M / U : MATCHING UNIT
MDF : MAIN DISTRIBUTION FRAME
MF : MEDIUM FREQUENCY
UHF : ULTRA HIGH FREQUENCY
VHF : VERY HIGH FREQUENCY

DRAWN BY AAE
APPROVED BY JICA

DATE: June 26, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM FOR RX STATION	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: PALEMBANG	
DIMENSION: Millimeter	DRAWING NO.: SROP-PLB-052-5R	
JICA – PT. Aneka Asia Buana		



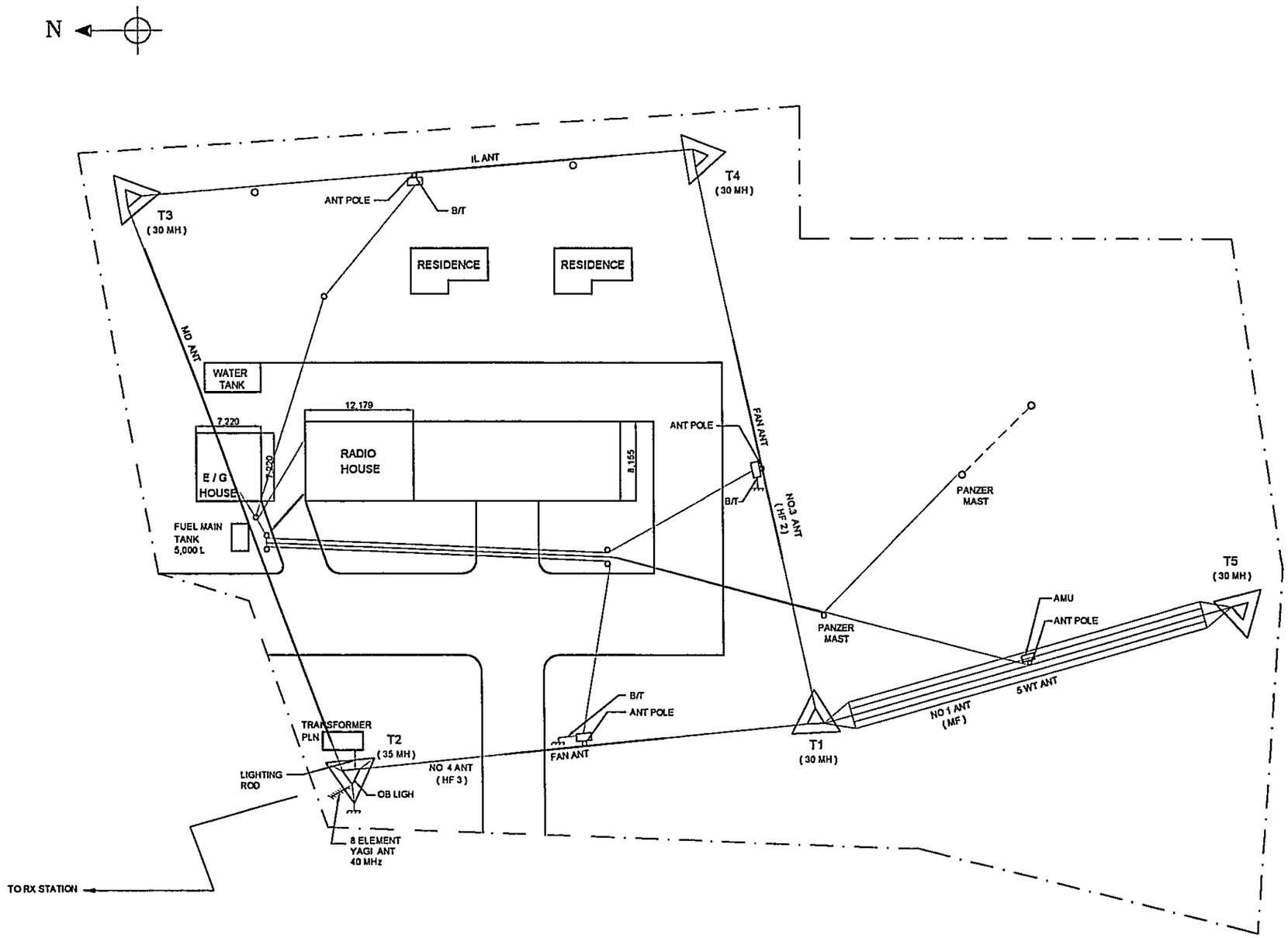
APPROVED BY JICA

DRAWN BY AAB

LEGEND

AVR	AUTOMATIC VOLTAGE REGULATOR
E/G	ENGINE GENERATOR
kVA	KILO VOLT AMPERE
PDB	POWER DISTRIBUTION BOARD
V	VOLT
W	WIRE
Ø	PHASE

DATE: June 26, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM FOR RX STATION	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO: SRO P-PLB-052-6R	
JICA – PT. Aneka Asia Buana		



LEGEND

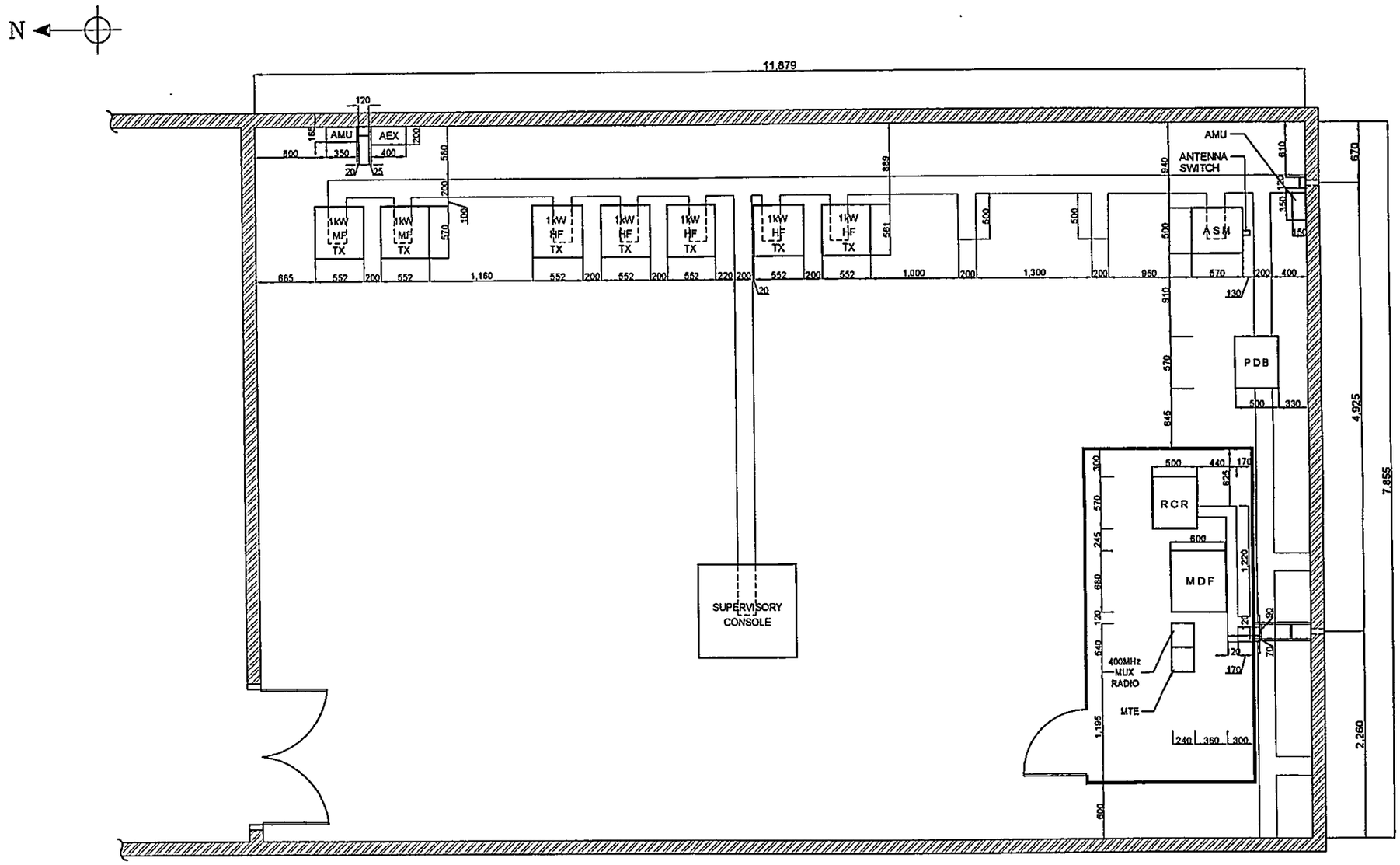
ANT : ANTENNA
AMU : ANTENNA MATCHING UNIT
B/T : BALUNS TRANS
E/G : ENGINE GENERATOR
HF : HIGH FREQUENCY
IL : INVERTED-L
MF : MEDIUM FREQUENCY
MD : MULTI DOUBLET

APPROVED BY JICA

DRAWN BY AAB

DATE: June 27, 2001	DRAWING TITLE: ANTENNA LAYOUT FOR TX STATION	SHEET NO.: 1/1
SCALE: 1 : 500	SITE NAME: PALEMBANG	
DIMENSION: Millimeter	DRAWING NO.: S,R,O,P,-,P,L,B,-,0,5,2,-,2,T	

JICA – PT. Aneka Asia Buana

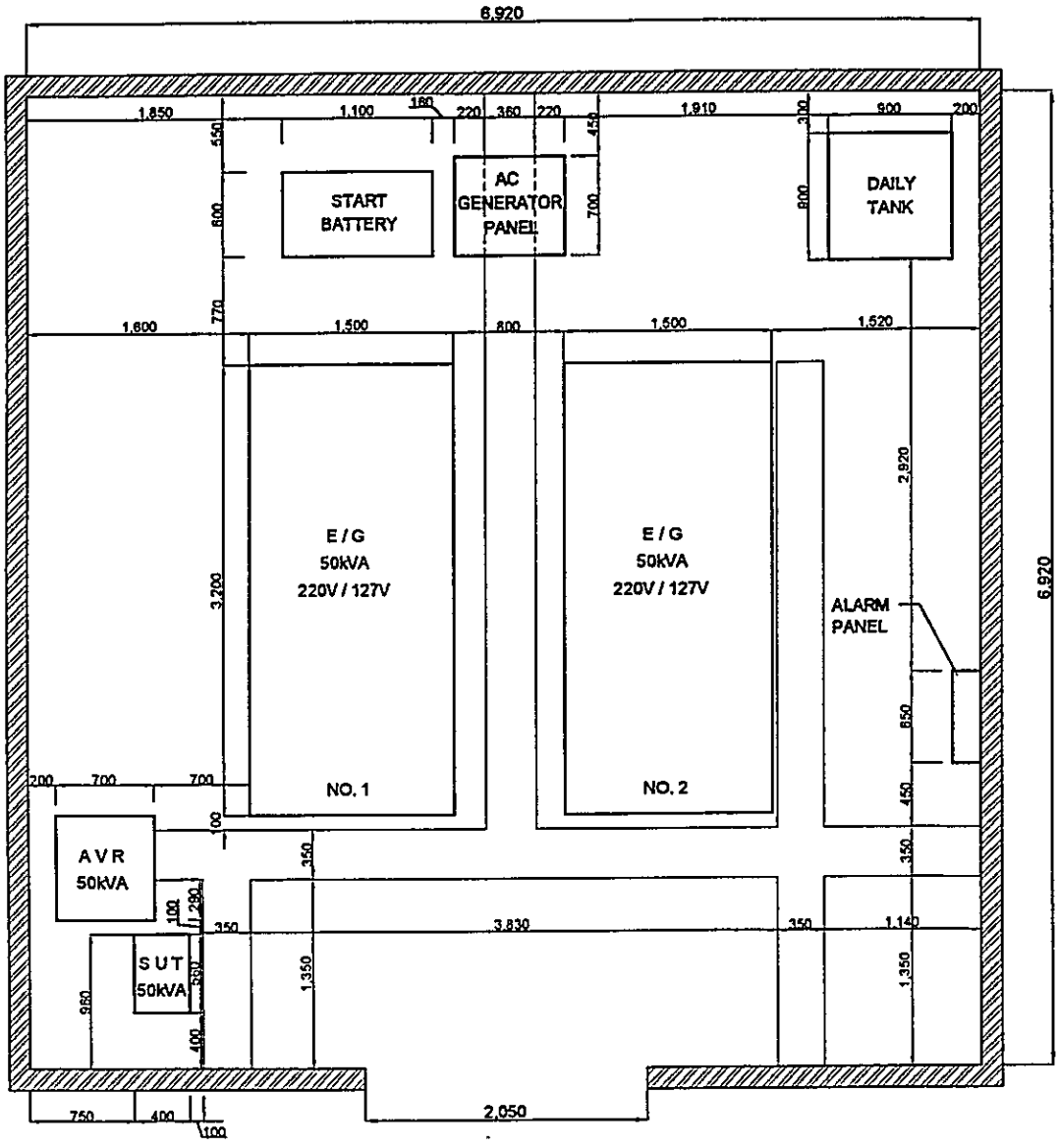


LEGEND

ANT	: ANTENNA	MUX	MULTIPLEX
AMU	: ANTENNA MATCHING UNIT	MF	. MEDIUM FREQUENCY
AEX	ANTENNA EXCHANGER	PDB	: POWER DISTRIBUTION BOARD
ASM	: ANTENNA SWITCHING MATRIX	RCR	: REMOTE RADIO CONTROL
HF	: HIGH FREQUENCY		
MDF	MAIN DISTRIBUTION FRAME		
MTE	MULTIPLEX TERMINAL EQUIPMENT		

DRAWN BY A&E | APPROVED BY JICA

DATE: June 27, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT FOR TX STATION	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: PALEMBANG	
DIMENSION: Millmeter	DRAWING NO: SROP-PLB-052-3T	
JICA – PT. Aneka Asia Buana		



LEGEND

AVR : AUTOMATIC VOLTAGE REGULATOR
E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE
SUT : STEP - UP TRANSFORMER
V : VOLT

APPROVED BY JICA :

DRAWN BY AAB

DATE: June 27, 2001	DRAWING TITLE: E/G FLOOR LAYOUT FOR TX STATION	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,L,B,-,0,5,2,-,4,T	
JICA –	PT. Aneka Asia Buana	

405-535 kHz
5 WT ANT

2182 kHz
3180 kHz
4388.4 kHz
I L ANT

2182 kHz
2690 kHz
4292 kHz
4397.7 kHz
4446.5 kHz
MD ANT

6~30 MHz
FAN ANT

6~30 MHz
FAN ANT

DUMMY LOAD

ANTENNA MATCHING

ANTENNA EXCHANGER

MUC

MUC

ANTENNA MATCHING

B/T

B/T

B/T

ANT SW

ANTENNA SWITCHING MATRIX (4 x 5)

1 kW MF TG TX-1

1 kW MF TX-2

1 kW HF TG/TP TX-3

1 kW HF TG/TP TX-4

1 kW HF TG TX-5

1 kW MF FIX TX-6

1 kW MF FIX TX-7

REMOTE CONTROL RACK

SUPERVISORY CONSOLE

M D F

MUX TERMINAL

400 MHz UHF RADIO

8 - ELEMENT YAGI ANT

TO RX STATION

TELEPHONE SET

LEGEND

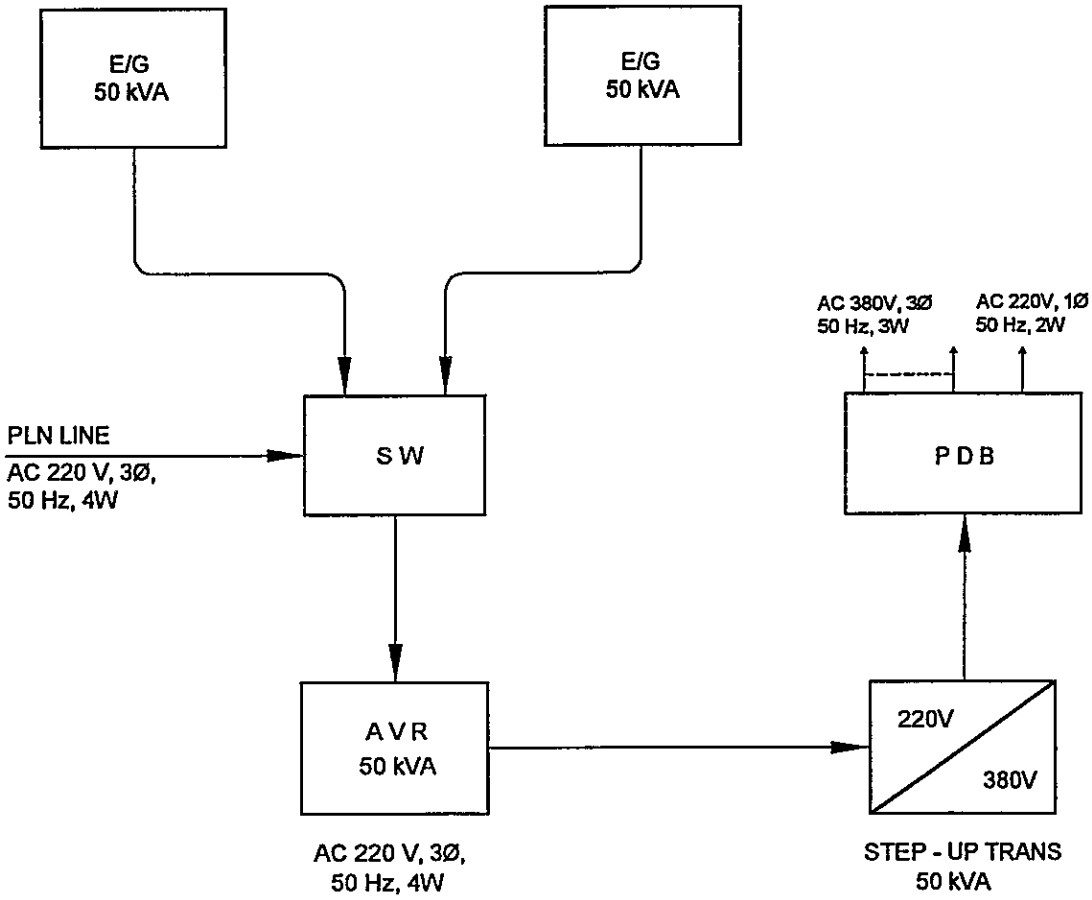
ANT	: ANTENNA
B / T	: BALUNS TRANS
HF	: HIGH FREQUENCY
I L	: INVERTED - L
MDF	: MAIN DISTRIBUTION FRAME
MF	: MEDIUM FREQUENCY
MUC	: MATCHING UNIT CONTROL
MD	: MULTI DOBLET
MDF	: MAIN DISTRIBUTION FRAME
MUX	: MULTIPLEXER
TG	: TELEGRAPHY
TP	: TELEPHONY
TX	: TRANSMITTER (ING)
UHF	: ULTRA HIGH FREQUENCY
V	: VERTICAL OMMDIRECTIONAL

APPROVED BY JICA

DRAWN BY AAB

DATE: June 26, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM FOR TX STATION	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO.: SROP-PLB-052-5T	

JICA – PT. Aneka Asia Buana



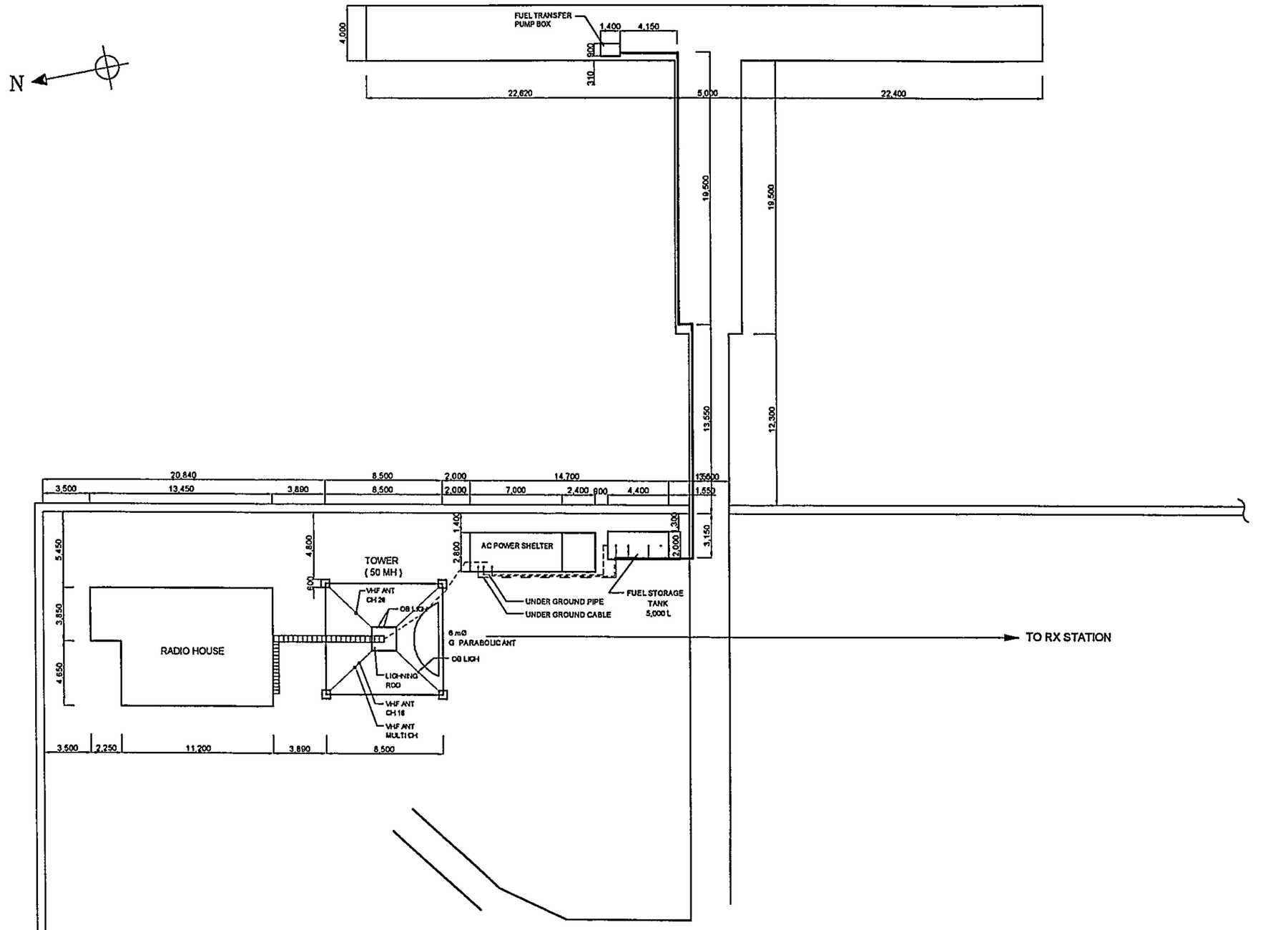
LEGEND

AVR : AUTOMATIC VOLTAGE REGULATOR
E/G ENGINE GENERATOR
kVA : KILO VOLT AMPERE
PDB : POWER DISTRIBUTION BOARD
V VOLT
W . WIRE
Ø PHASE

APPROVED BY JICA

DRAWN BY AAB

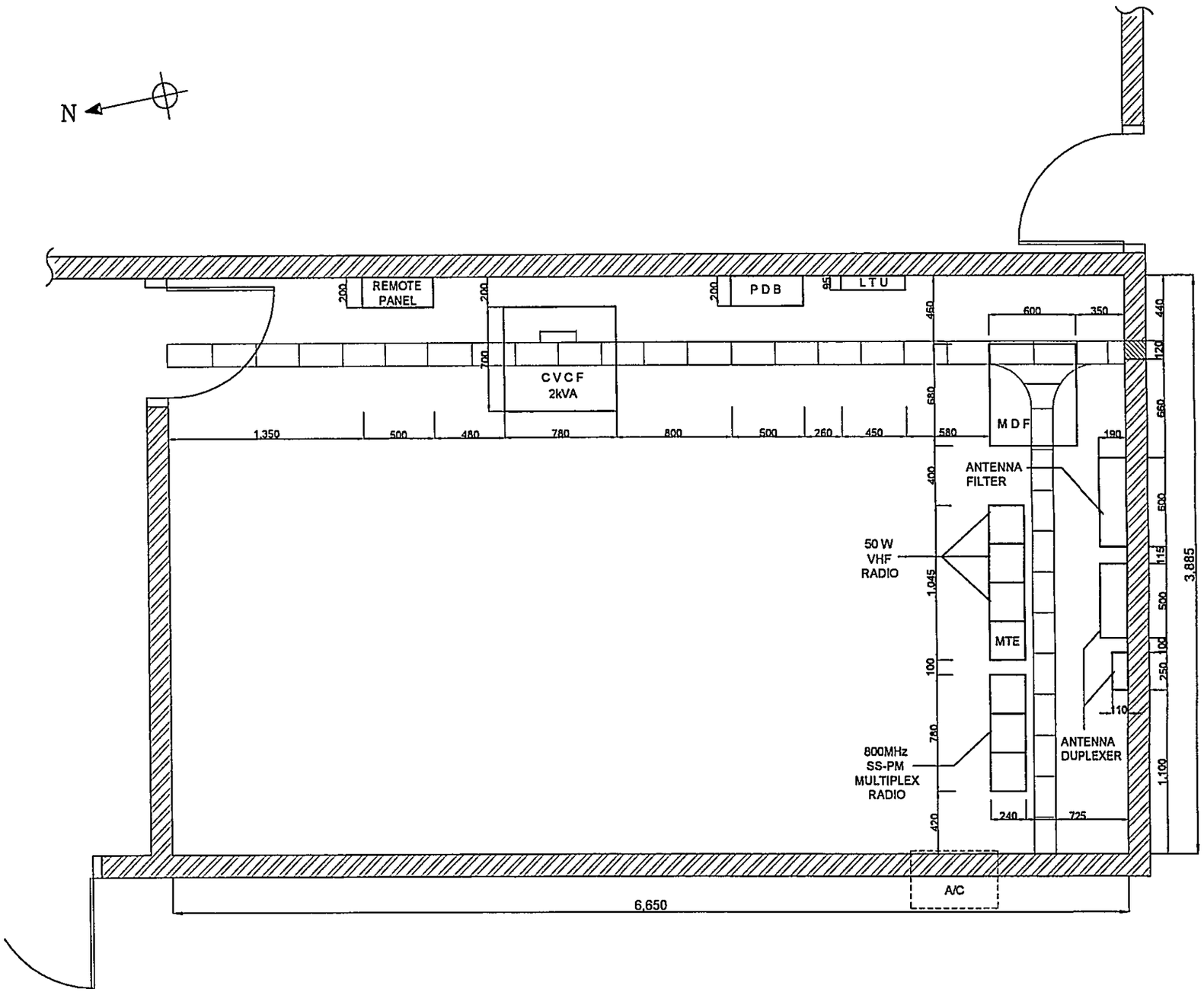
DATE: June 26, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM FOR TX STATION	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO: SROP-PLB-052-6T	
JICA – PT. Aneka Asia Buana		



DRAWN BY AAB: | APPROVED BY JICA

DATE: June 28, 2001	DRAWING TITLE: ANTENNA LAYOUT FOR VHF STATION	SHEET NO.: 1/1
SCALE: 1 : 300	SITE NAME: PALEMBANG	
DIMENSION: Millmeter	DRAWING NO.: SROP-PLB-052-2	

JICA – PT. Aneka Asia Buana

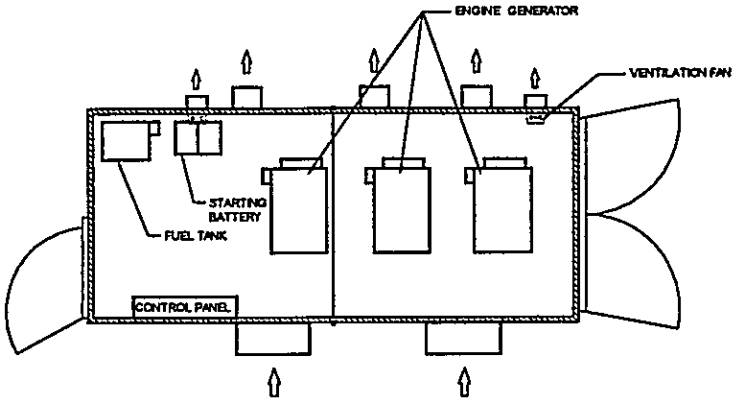


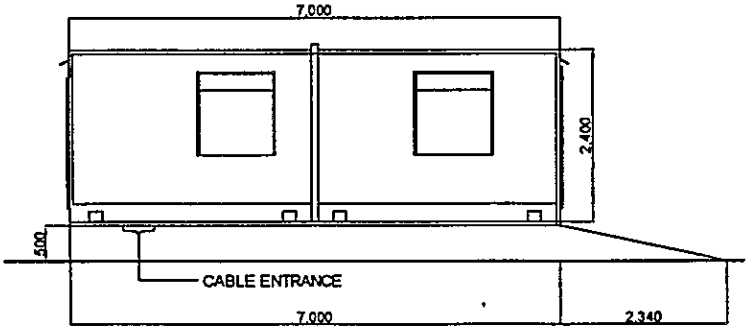
LEGEND

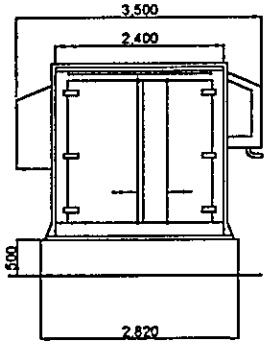
A/C	:	ALTERNATING CURRENT
kVA	:	KILO VOLT AMPERE
LTU	:	LOCAL TERMINAL UNIT
MDF	:	MAIN DISTRIBUTION BOARD
MTE	:	MULTIPLEX TERMINAL EQUIPMENT
PDB	:	POWER DISTRIBUTION BOARD
VHF	:	VERY HIGH FREQUENCY

DATE: June 28, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT FOR VHF STATION	SHEET NO.: 1/1
SCALE: 1 : 30	SITE NAME: PALEMBANG	
DIMENSION: Millimeter	DRAWING NO.: SROP-PLB-0521-3	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB: | APPROVED BY JICA:



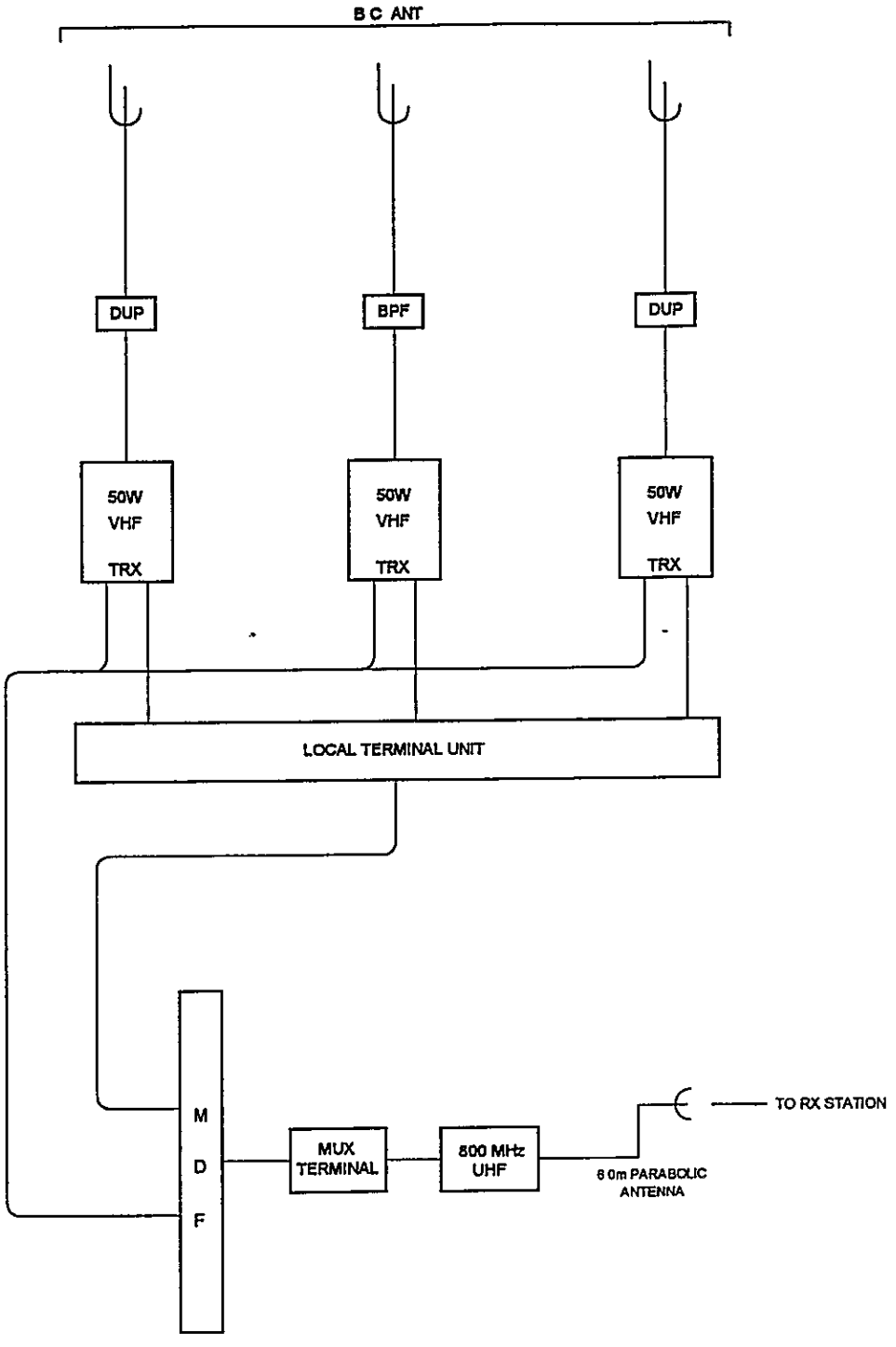




DRAWN BY AAB:

APPROVED BY JICA:

DATE: June 28, 2001	DRAWING TITLE: E/G FLOOR LAYOUT FOR VHF STATION	SHEET NO.: 1/1
SCALE: 1 : 100	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO.: SROP-PLB-052-4	
JICA – PT. Aneka Asia Buana		



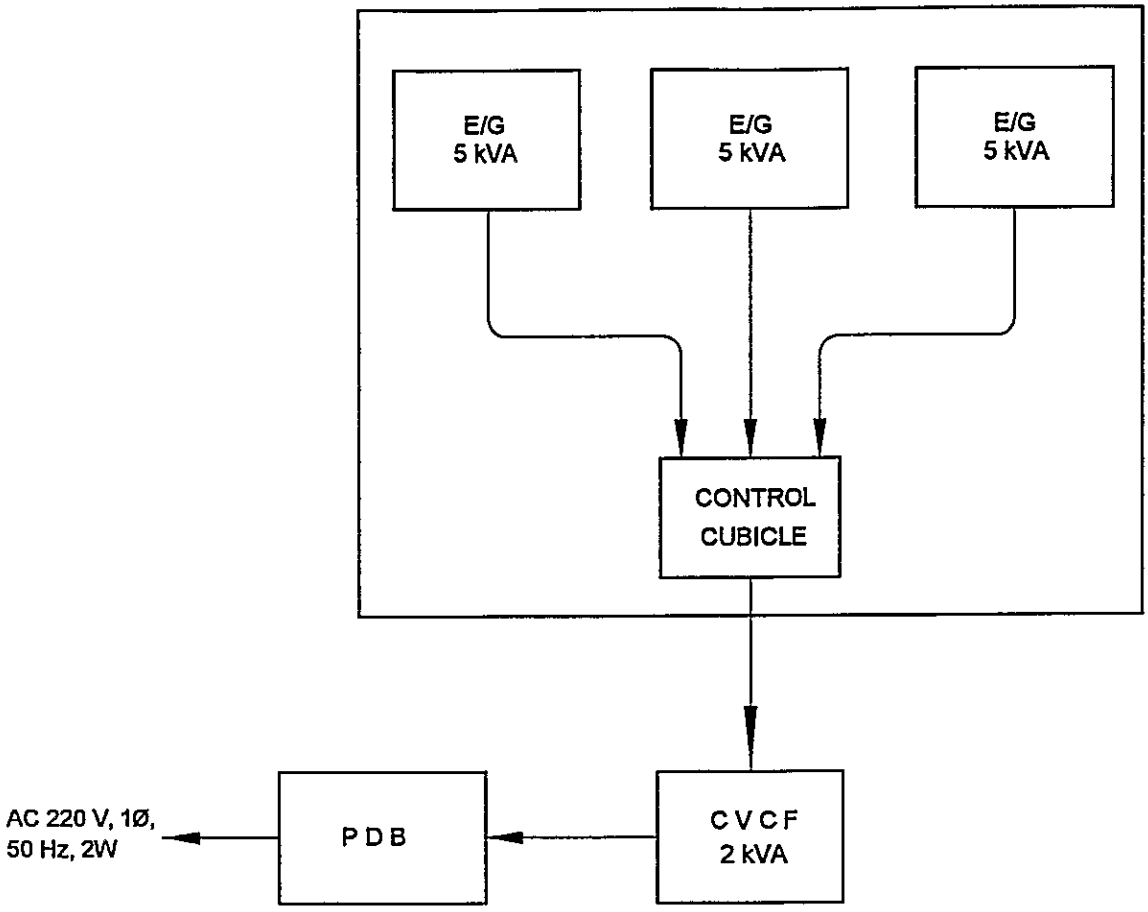
LEGEND

ANT	: ANTENNA	TRX	: TRANSCEIVER (ING)
BC	: BROWN CARDIOID	UHF	: ULTRA HIGH FREQUENCY
BPF	: BAND PASS FILTER	VHF	: VERY HIGH FREQUENCY
DUP	: DUPLEXER		
MDF	: MAIN DISTRIBUTION FRAME		
RX	: RECEIVER (ING)		

APPROVED BY JICA :

DRAWN BY AAB :

DATE: June 26, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM FOR VHF STATION	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO: SROP-PLB-052-5	
JICA –	PT. Aneka Asia Buana	



LEGEND

E/G . ENGINE GENERATOR
kVA : KILO VOLT AMPERE
PDB : POWER DISTRIBUTION BOARD
V : VOLT
W : WIRE
Ø : PHASE

DATE: June 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM FOR VHF STATION	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: PALEMBANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,L,B,-,0,5,2,-,6,	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB :

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

3rd Class Coast Station

Jambi

(Coast Station No. 53)

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	JAMBI		
CLASS	3rd	NO.	53

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Let. Jend. Suprapto	0741-62373		103° 36′ 51″ E	01° 36′ 50″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Jambi	[Taking time: 1.00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car	to Location	[Taking time. 3.00 hr.]	☑ Paved	☑ Medium	☐ Motel	
			☐ Unpaved road	☐ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
☑ Flat	☑ Dry soil	☐ Limestone	☐ Flood	Yes	No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ Antenna	☐
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑ Towers (Masts)	☐
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ Grounding system	☑
☐ Valley	☐ Sandy			☐ Lightning system	☑
Altitude	**M**		**Telephone Lines**	☑ Feeder Cable Way	☐
Land area	2,530 m²		☑ 1 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	12 00
E / G room	7.50
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	110/220 V	110 V
Phase	2	1
Wire	3	2
kVA	3.8	

Quality of PLN source		
Fluctuations	150 V ± 10 %	
Availability of power per day	24 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	50 Liter
Main tank	k Liter

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by him self or send to Disnav office
Examples of major failure	Damaged by lightening
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)	3 ()	()
Technician (skilled)	()	()
Administrator		
T o t a l	4	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	JAMBI		
CLASS	3rd	NO.	53

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	591				1991				1996			38
1997					1992			42	1997			37
1998					1993			31	1998			33
1999					1994			30	1999			35
2000					1995			34	2000			36

7. COMMENTS

Suggestion	Equipment facility is not appropriate for 3rd class. Request for upgrading, urgently.
Remarks	

INVENTORY

Site Name: Jambi

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		HF Transceiver	IC-M700	50703	Japan	1996			Good
1-2		**VHF System**							
1		VHF Transceiver	IC-N-1260SC	03509	Japan	1996			Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		20 mH Triangle				1982			Good
2		18 mH Tower Pipe				1996			Good
3		**Power Supply System**							
3-1		**Engine Generator**							
1		Engine Generator 5kVA							Good
4		**Measuring Equipment**							
1		AVO Meter							Good
5		**Others**							
1		Tool Set							

Palembang

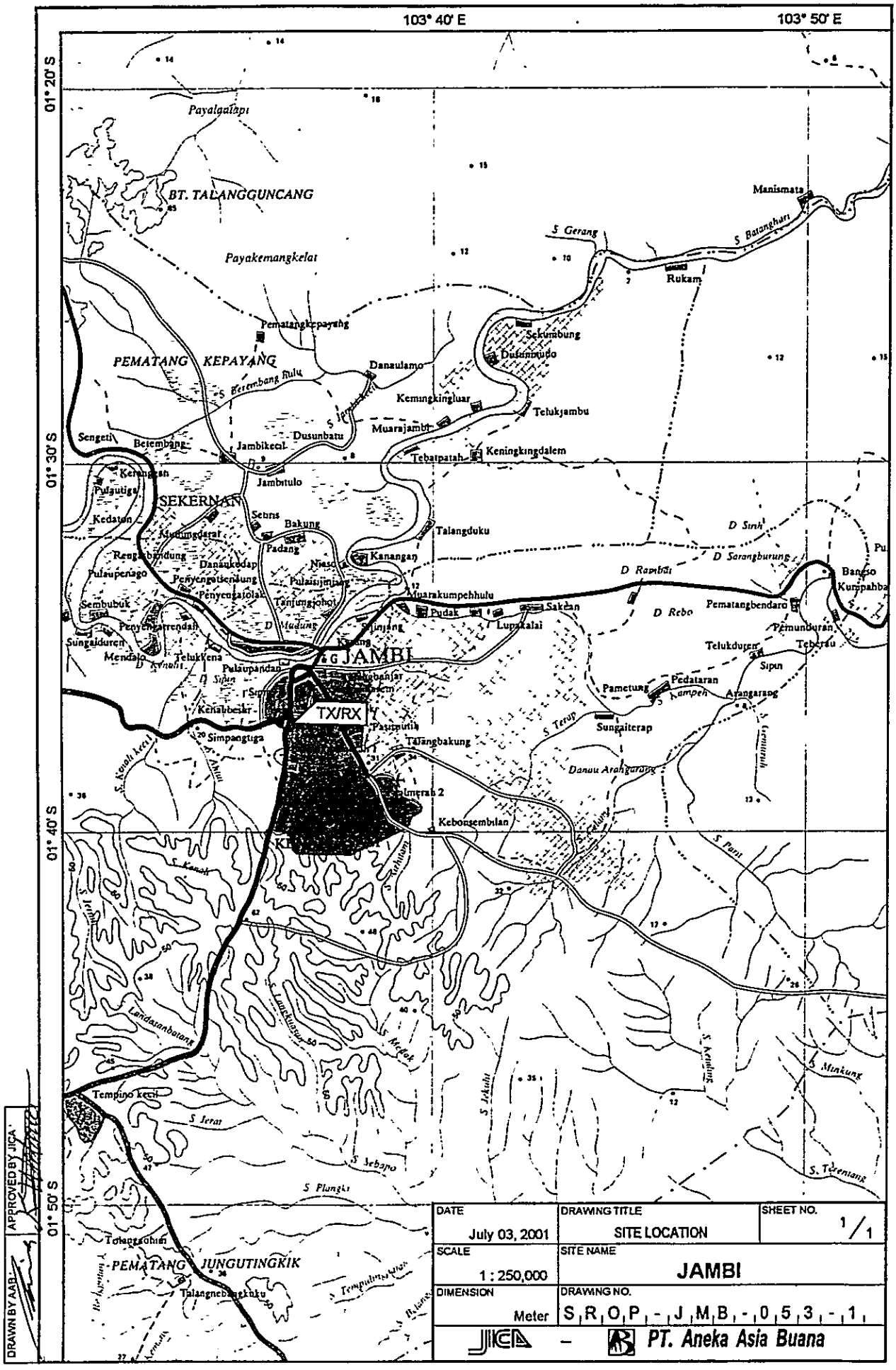
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Jambi

JMB-053-(1/1)

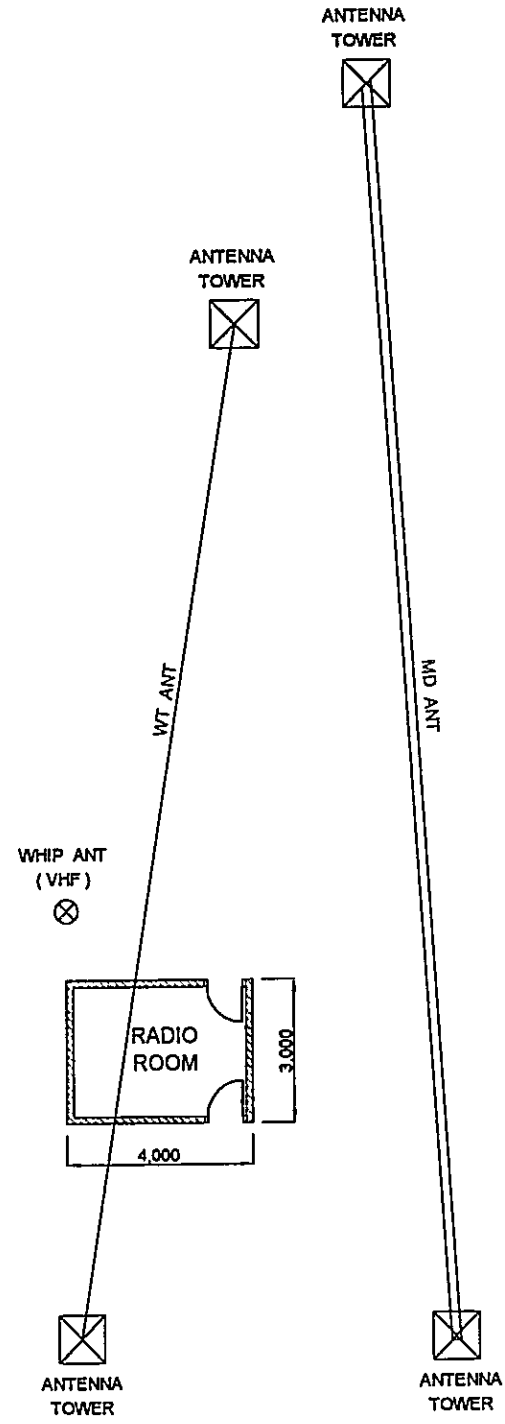
Call Sign : Mobile Service : PKC.3
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2.182,0	J3E	25		
2	6 215,0	J3E	25		
3	2.690,0	J3E	25		
4	6 209,0	J3E	25		
	VHF Service				
5	Channel-12	G3E	100		
6	Channel-14	G3E	100		
7	Channel-16	G3E	100		
8	Channel-26	G3E	100		
	Fix Service				
9	5.381,5	G3E	150		
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



DATE: July 03, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 250,000	SITE NAME: JAMBI	
DIMENSION: Meter	DRAWING NO.: S R O P - J M B - 0 5 3 - 1	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB | APPROVED BY JICA



LEGEND

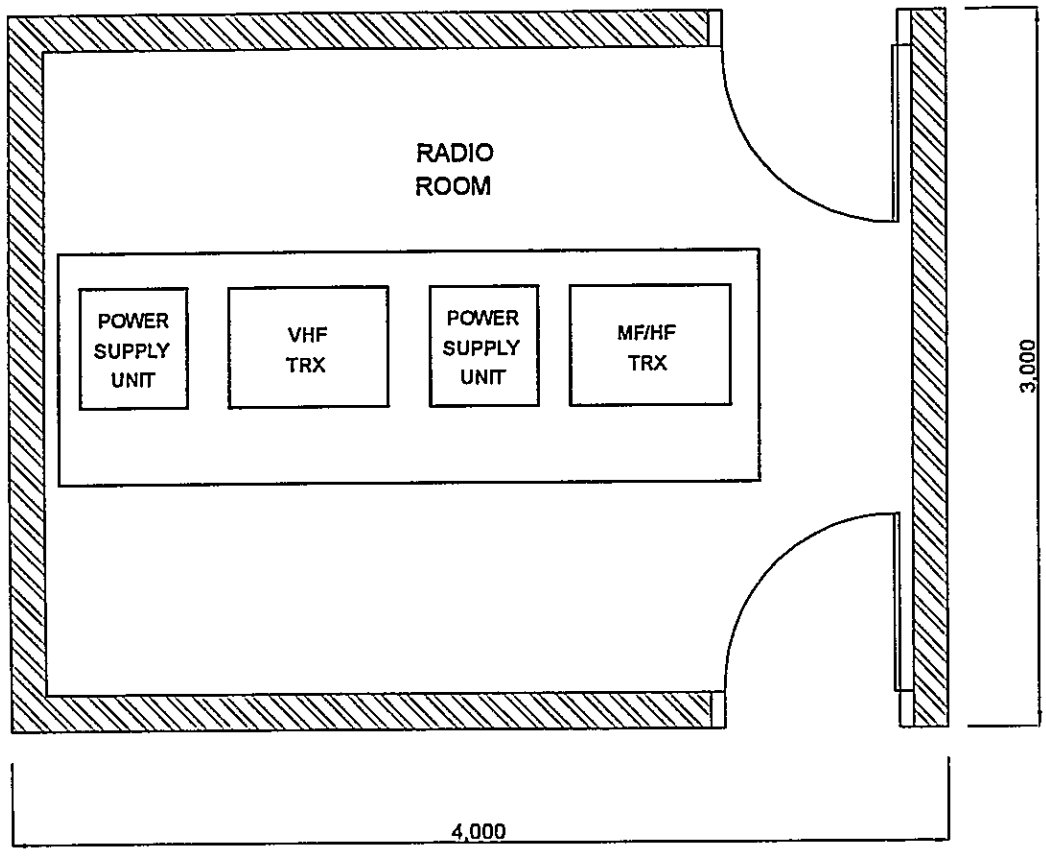
ANT : ANTENNA
MD : MULTI DOUBLET
WT : WIRE T TYPE

APPROVED BY JICA

DRAWN BY AAB

DATE: June 28, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 150	SITE NAME: JAMBI	
DIMENSION: Milimeter	DRAWING NO: SROP-JMB-053-2	

JICA – PT. Aneka Asia Buana



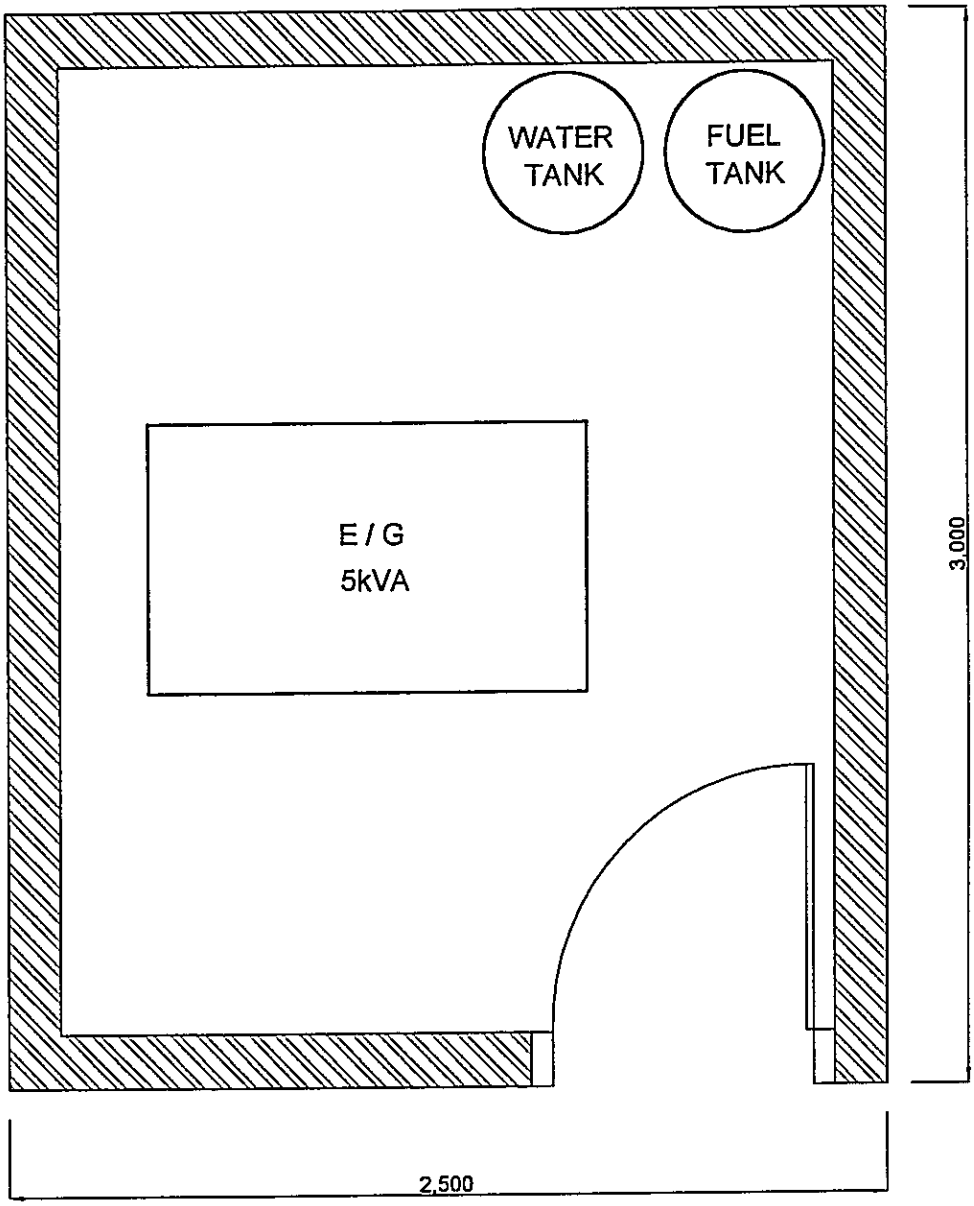
LEGEND

HF : HIGH FREQUENCY
MF : MEDIUM FREQUENCY
TRX : TRANSCEIVER
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA :

DRAWN BY AAB :

DATE: June 28, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 30	SITE NAME: JAMBI	
DIMENSION: Milimeter	DRAWING NO.: SRO P - JMB - 0 5 3 - 3	
JICA – PT. Aneka Asia Buana		



LEGEND

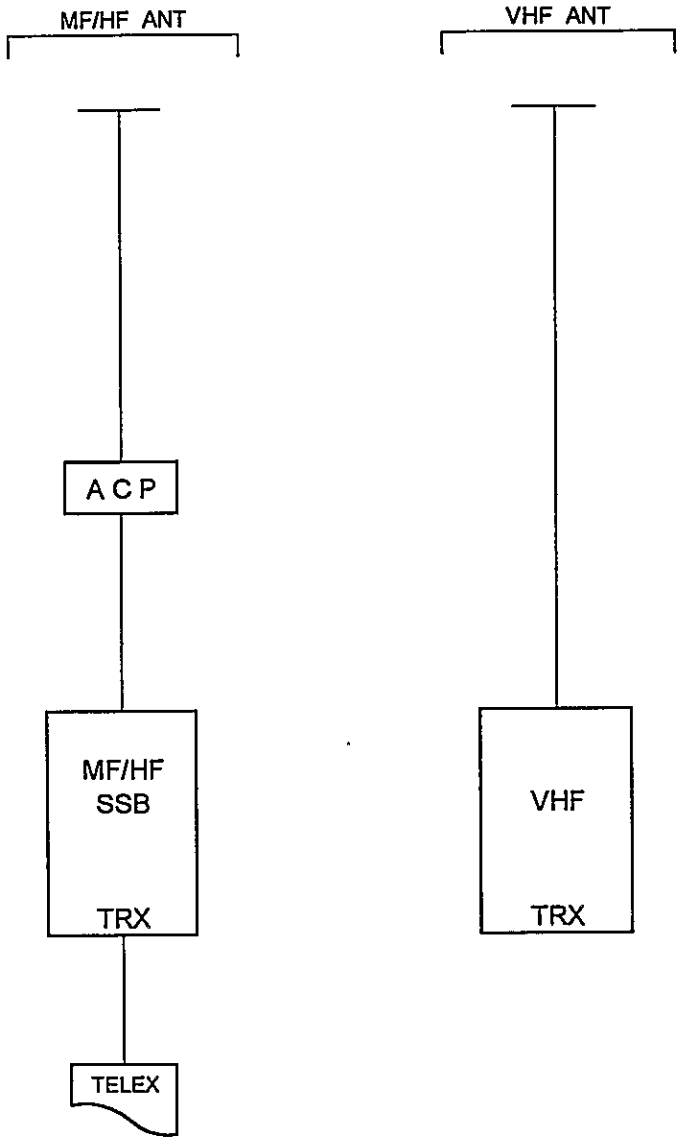
E/G : ENGINE GENERATOR

kVA : KILO VOLT AMPERE

DATE: June 28, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 20	SITE NAME: JAMBI	
DIMENSION: Milimeter	DRAWING NO.: S R O P - J M B - 0 5 3 - 4	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB:



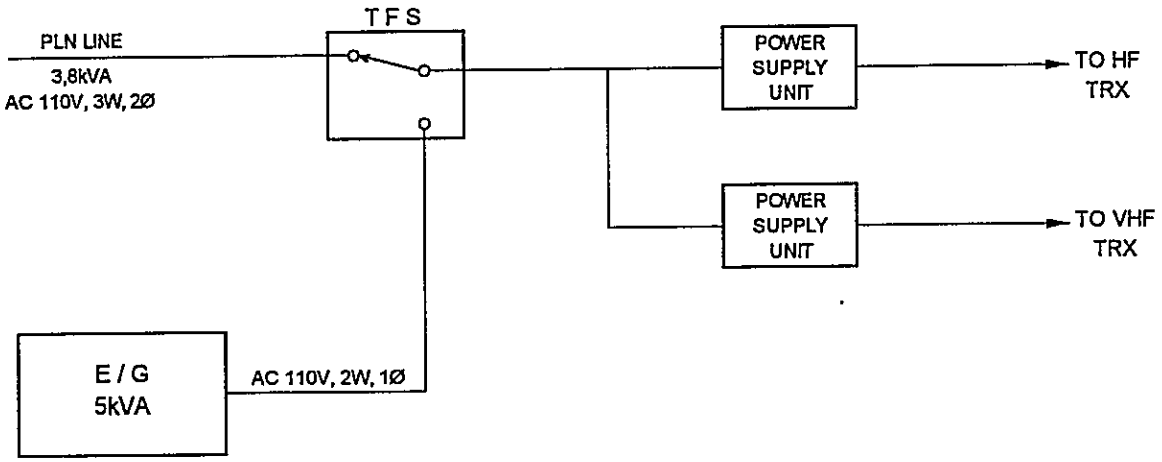
LEGEND

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

DRAWN BY AAB

APPROVED BY JICA :

DATE: June 28, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: JAMBI	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,J,M,B,-,0,5,3,-,5,	
JICA –	PT. Aneka Asia Buana	



APPROVED BY JICA :

DRAWN BY AAB

LEGEND

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

DATE: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: JAMBI	
DIMENSION: Milimeter	DRAWING NO: SROP-JMB-053-6	

JICA – PT. Aneka Asia Buana

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

4th-A Class Coast Station

Muara Sabak

(Coast Station No. 54)

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	MUARA SABAK		
CLASS	4th-A	NO.	54

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Jambi, Muara Sabak			103° 51′ 02″ E	01° 07′ 35″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Jambi [Taking time: 1.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Car to M. Sabak [Taking time: 2:30 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	100.00 M		**Telephone Lines**	☑ Feeder Cable Way	☐
Land area	1,000 m²		☐ Lines	☑ City water	☐

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Roof Tile
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Mortar
Flooring	Tile
Room Area (m²)	
Operation room	30.00
E / G room	20.00
Remark	

3.3 Power Source

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

Quality of PLN source		
Fluctuations	110 V ± 10 %	
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	50 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 Palembang or to Disnav Office
Examples of major failure	Damaged by lightening
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)	0	0
Technician (skilled)	0	0
Administrator		
Total	1	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	MUARA SABAK		
CLASS	4th-A	NO.	54

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: Muara Sabak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB MF/HF Transceiver	FT.300	OD.120064	YAESU	1979			Damaged
2		SSB MF/HF Transceiver	IC-M710		ICOM	1995			Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		Antenna Tower	Triangle			1996			Good
2-2		**Antenna System**							
1		Antenna	3 WT Type Ant						Good
3		**Power Supply Equipment**							
3-1		**Engine Generator**							
1		Genset	TS-60	31916	Yanmar	1984			Good
2		Genset	TS-6	4102016	Huafa	1996			Good

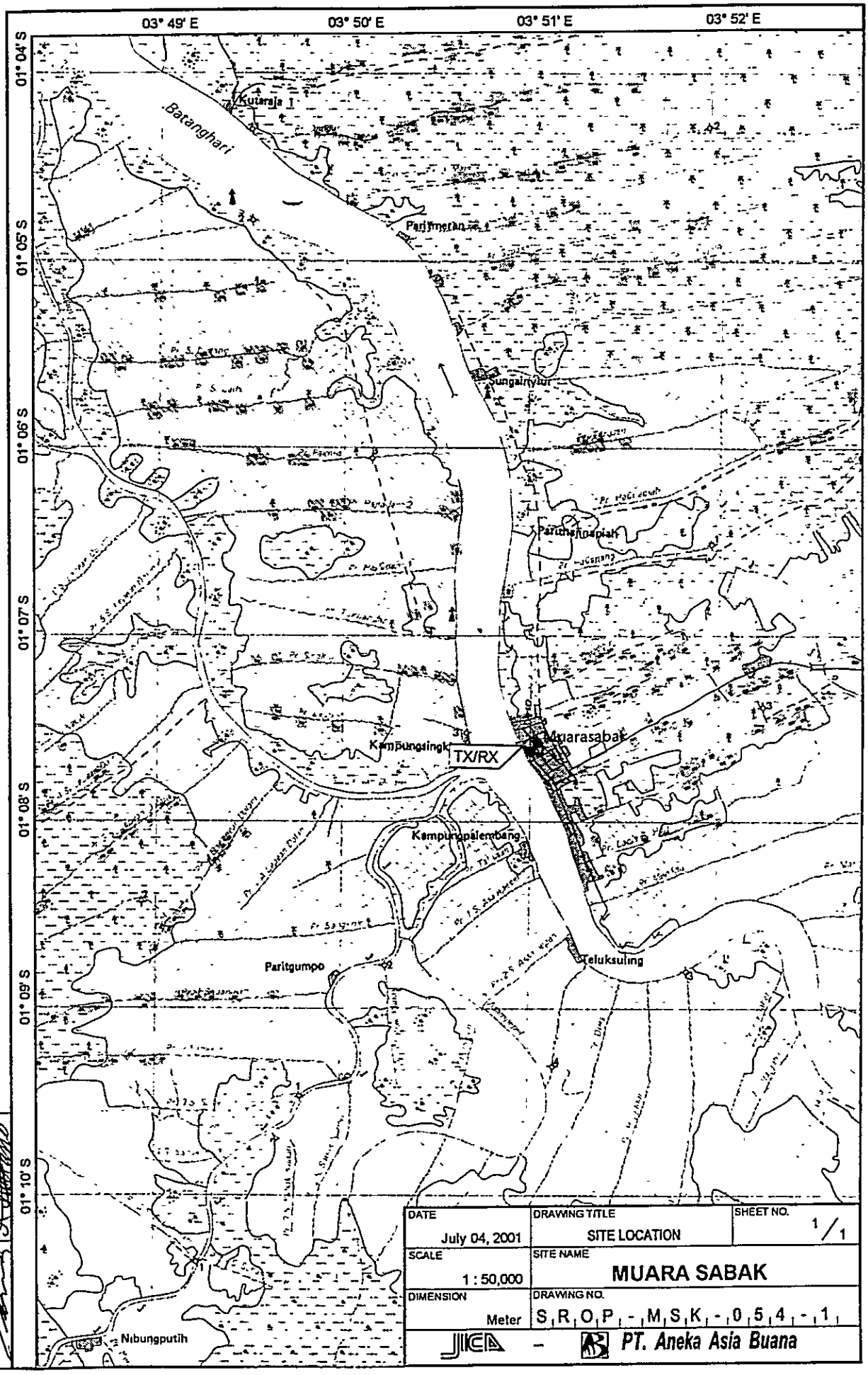
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Muara Sabak

MSK-054-(1/1)

Call Sign : Mobile Service : PKC.77
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	2 090,0	J3E	100		
3	2 690,0	J3E	100		
4	6 209,0	J3E	100		
	VHF Service				
5	Channel 16	G3E	50		
	Fix Service				
6	5 381,5	J3E	100		
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



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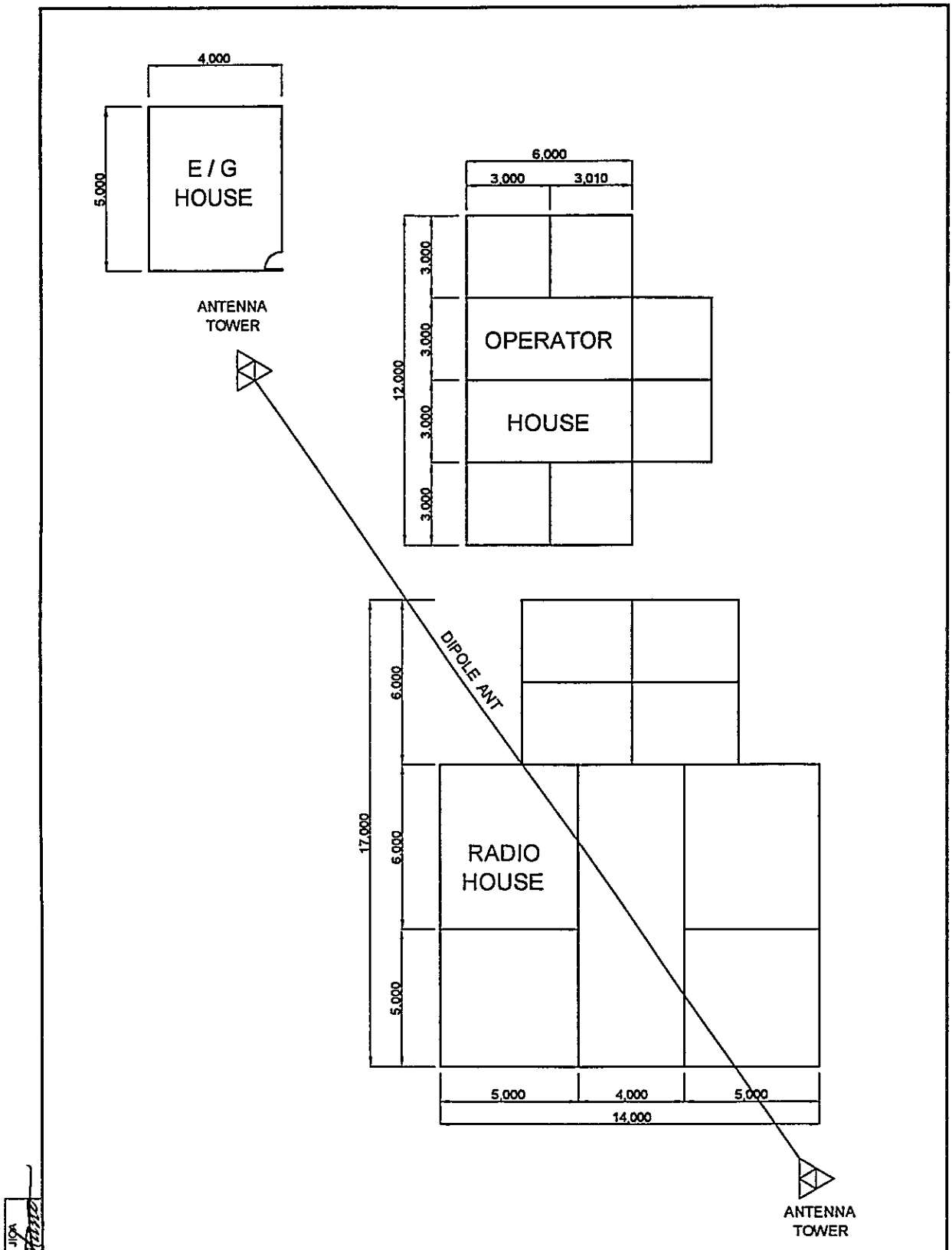
SCALE: 1 : 50,000	SITE NAME: MUARA SABAK	
DIMENSION: Meter	DRAWING NO.: SROP-MSK-054-1	

JICA – PT. Aneka Asia Buana

APPROVED BY JICA

DRAWN BY AAB



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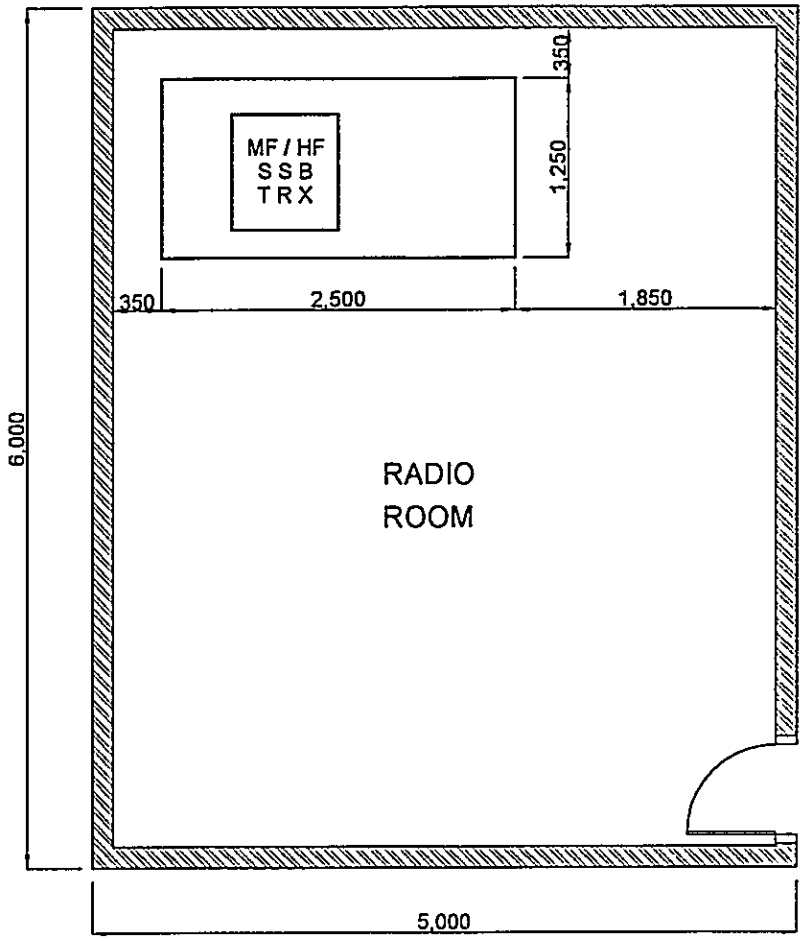
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,M,S,K,-,0,5,4,-,2,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA

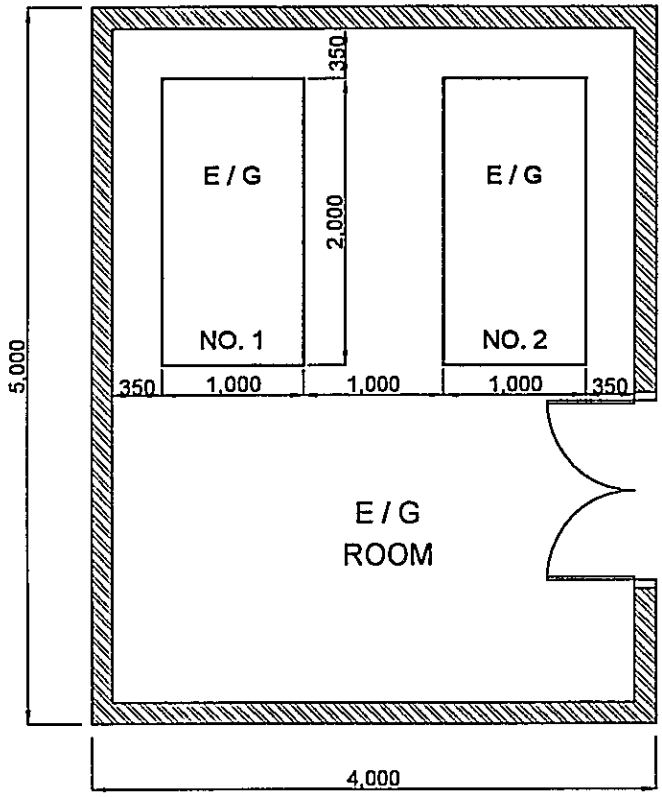


LEGEND

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

DATE: June 28, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: MUARA SABAK	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,S,K,-,0,5,4,-,3,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB: APPROVED BY JICA:



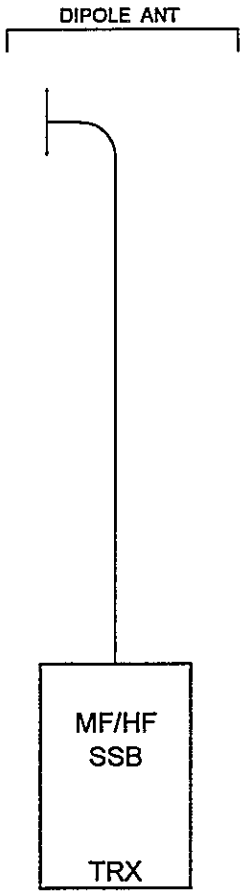
LEGEND

E/G : ENGINE GENERATOR

DATE: June 28, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: MUARA SABAK	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,M,S,K,-,0,5,4,-,4,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAP

APPROVED BY JICA

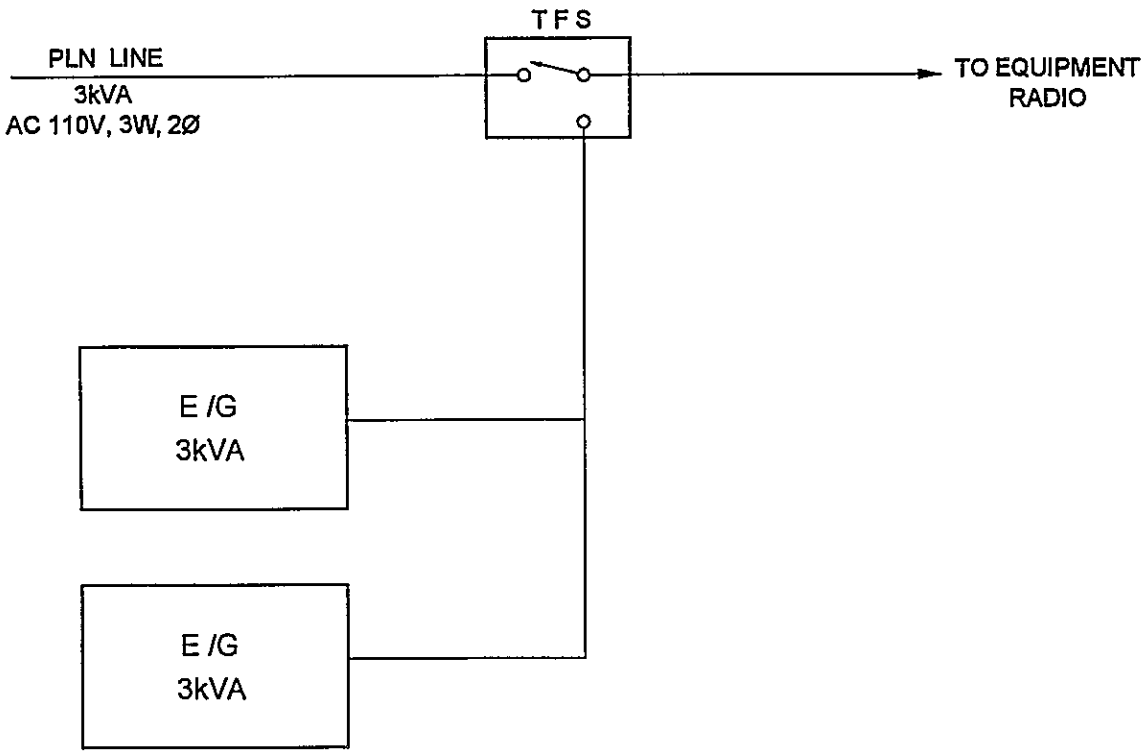


LEGEND

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

DATE: June 28, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MUARA SABAK	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,M,S.K,-,0,5,4,-.5,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB: APPROVED BY JICA:



LEGEND

AC	:	ALTENATING CURRENT
E/G		ENGINE GENERATOR
kVA		KILO VOLT AMPERE
PDB		POWER DISTRIBUTION BOARD
TFS		TRANSFER SWITCH
V		VOLT
W		WIRE
Ø		PHASE

DATE: June 28, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MUARA SABAK	
DIMENSION: Milimeter	DRAWING NO: SROP-MSK-054-6	
JICA – PT. Aneka Asia Buana		

APPROVED BY AA

DRAWN BY AAB

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

4th-A Class Coast Station
Muntok
(Coast Station No. 55)

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	MUNTOK		
CLASS	4th-A	NO.	55

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Tanjung Kalian No. 181, Muntok			105° 09′ 37″ E	02° 04′ 16″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to P.Pinang	[Taking time: 1:30 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Car	to Muntok	[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	70.00 M		**Telephone Lines**	☑ Feeder Cable Way	☐
Land area	2,700 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	15.00
E / G room	04.00

Remark

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	2	1
Wire	3	2
kVA	1.3	5

Quality of PLN source	
Fluctuations	10 V ± 5 %
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	10 Liter
Main tank	0.2 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 or to Disnav Office
Examples of major failure	Damaged by lightening
Sufficiency of spares	

Records of damages	
☐ Heavy rainfall	
☐ Storm	
☐ Lightning	
☐ Other calamity	

Environmental Conditions	Good	Bad
☑ ☐ External noises	☑	☐
☑ ☐ Air pollution	☑	☐

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)	0	0
Technician (skilled)	0	0
Administrator		
T o t a l	1	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	MUNTOK		
CLASS	4th-A	NO.	55

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	Maritime communications is very important, but limited only for big ship because the small ship doesn't equip with sufficient communications equipment facilities. Without communications equipment install in ships, function of Coast Station will be less, except for Fix communication with District Navigation office and the other Coast Station.
Remarks	

INVENTORY

Site Name: Muntok

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver	IC-M700	50638	ICOM	1996			Good
1-2		**VHF System**							
1		VHF Transceiver	IC-MD-126DSC	03511	ICOM	1996			Good
2		**Antenna System**							
2-1		**Tower & Mast**							
1		Tower (2)	Triangle						Good
2		Tower (2)							Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		DC Power Supply	AK-4040V		DAKAI	1996			Good
2		DC Power Supply	AK-4040V		DAKAI	1996			Good
3		Accumulator	200AH		G.S.	1996			Good
4		Accumulator	200AH		G.S.	1996			Good
5		Accumulator	200AH		G S.	1996			Good
6		Accumulator	200AH		G S.	1996			Good

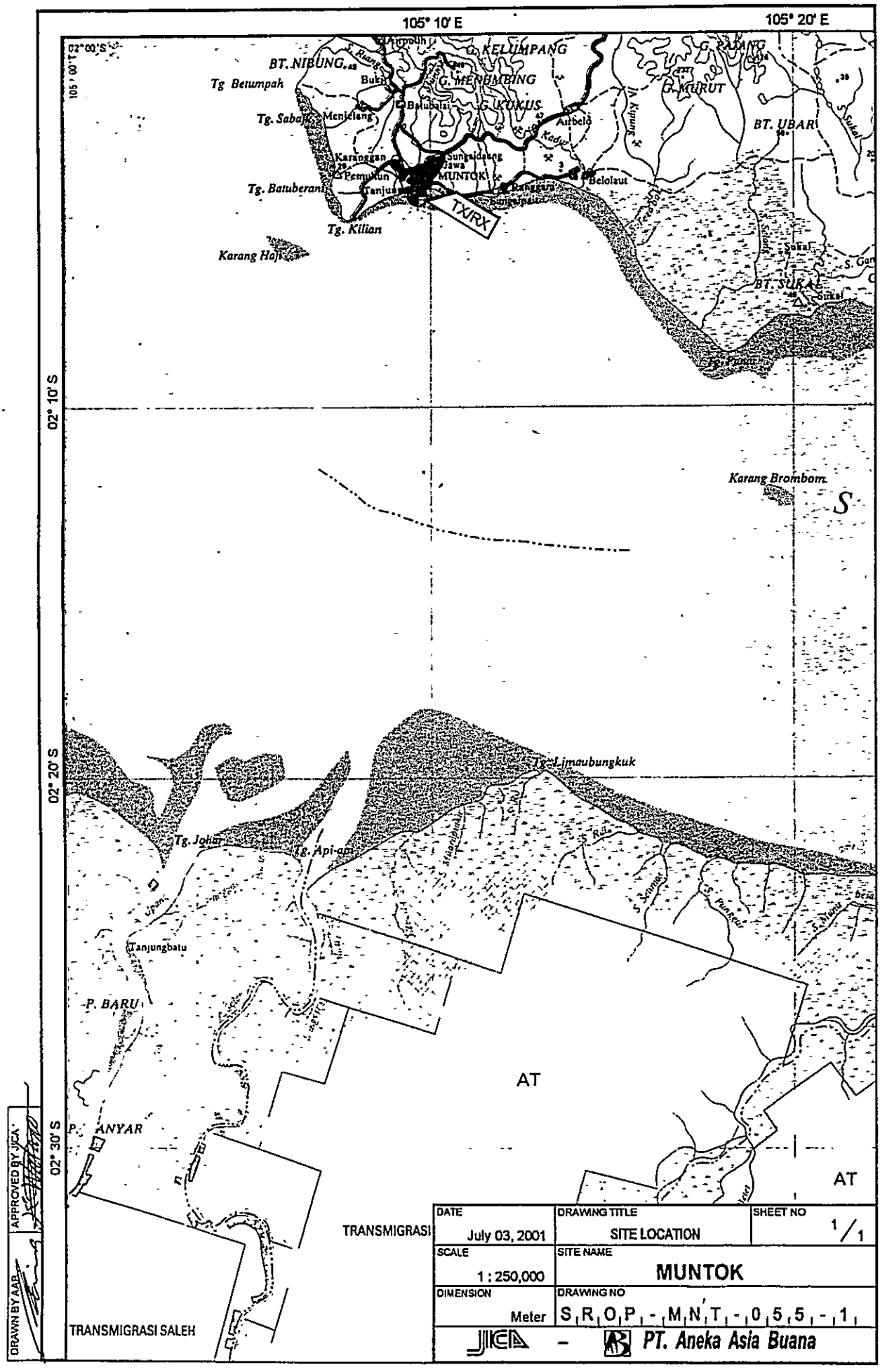
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Muntok

MNT-055-(1/1)

Call Sign : Mobile Service : PKC.7
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	2.090,0	J3E	100		
3	2 690,0	J3E	100		
4	6 215,0	J3E	100		
5	6.209	J3E	100		
6	6.510	J3E	100		
7	8 282	J3E	100		
8	8 806	J3E	100		
	VHF Service				
9	Channel-16	G3E	25		
	Fix Service				
10	4 446,0	J3E	100		
11	5 381,0	J3E	100		
12	6 926,0	J3E	100		
13	9 950,0	J3E	100		
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



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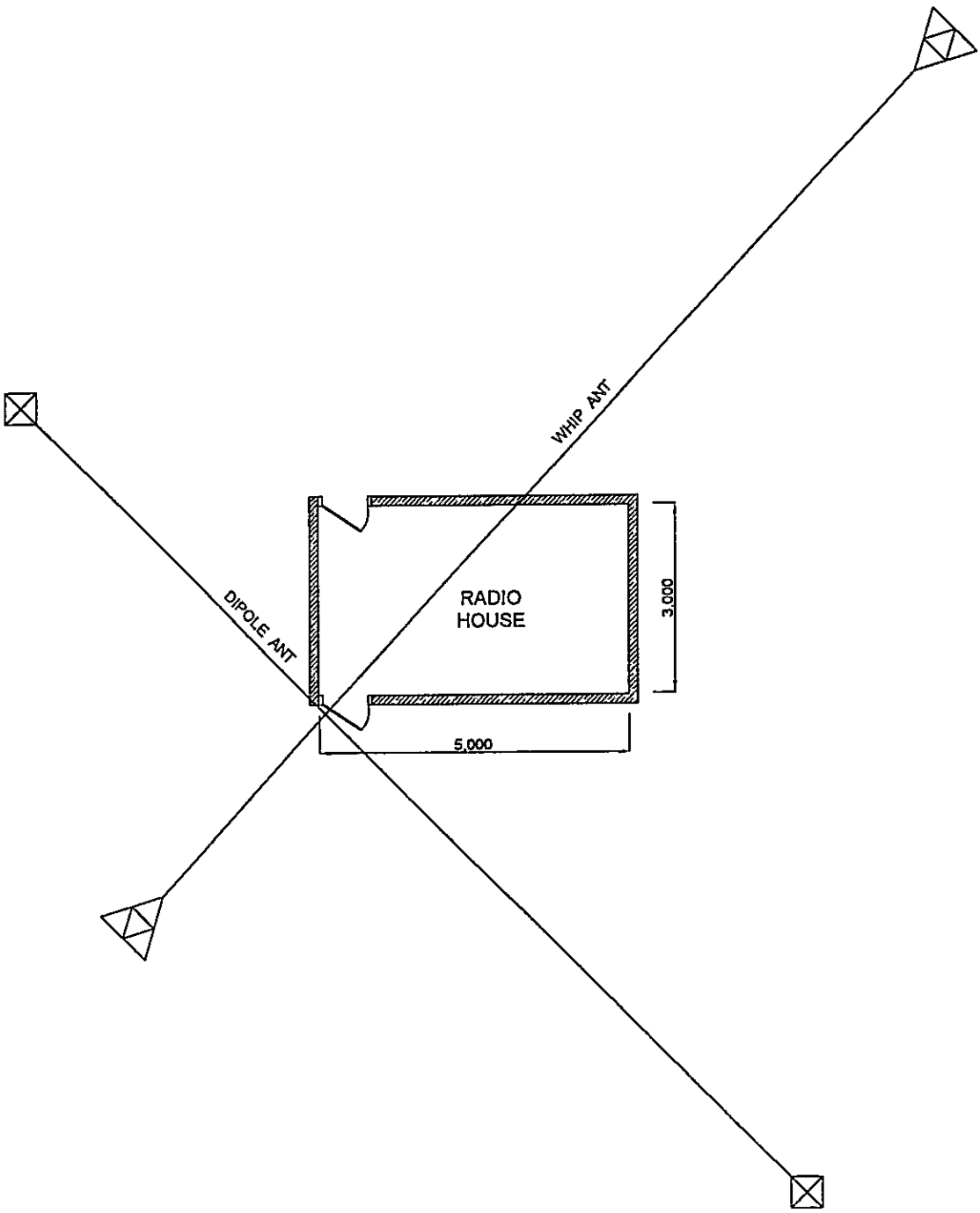
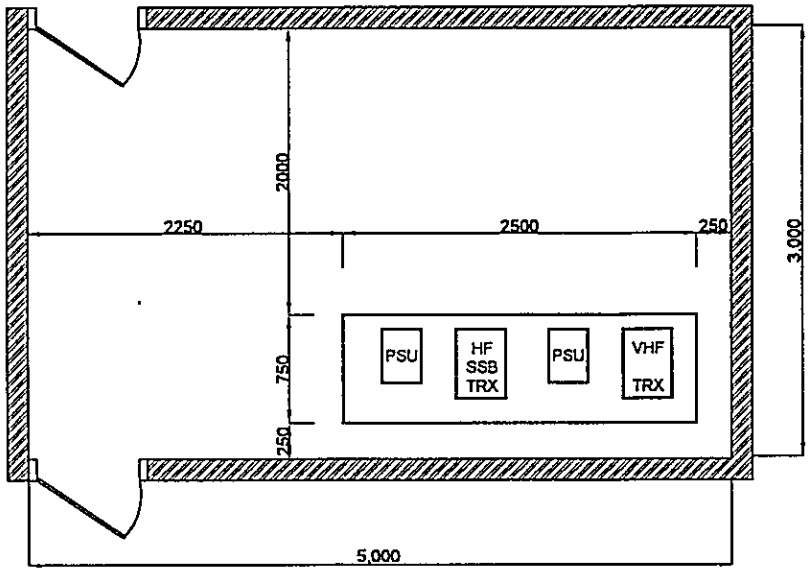
JICA – PT. Aneka Asia Buana		



DATE: June 29, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: MUNTOK	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,T,-,0,5,5,-,2,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA

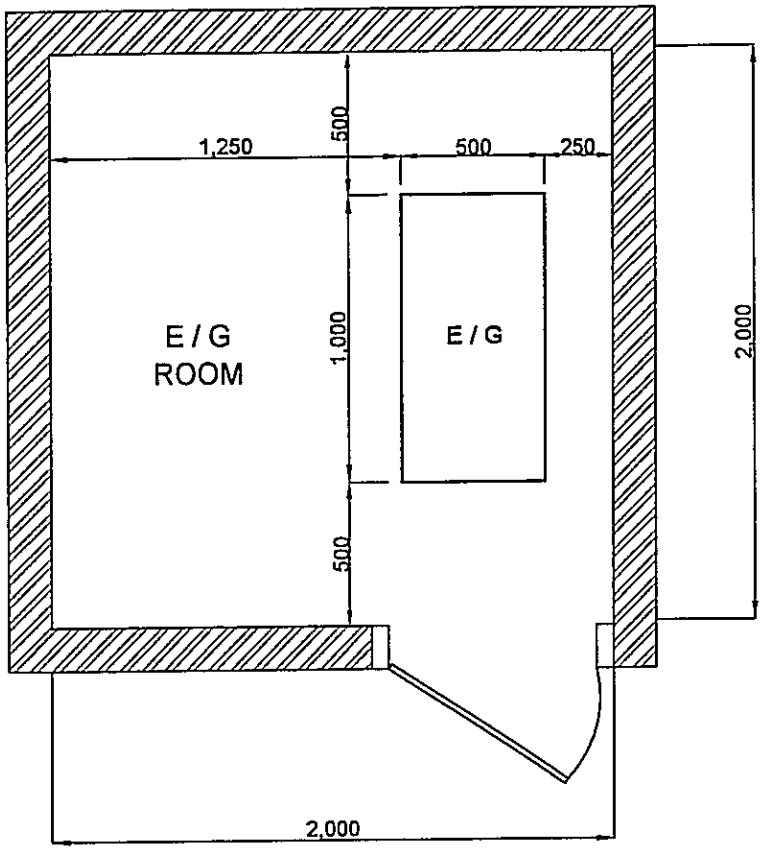


LEGEND

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

DATE: June 29, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: MUNTOK	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,N,T,-,0,5,5,-,3	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB
APPROVED BY JICA



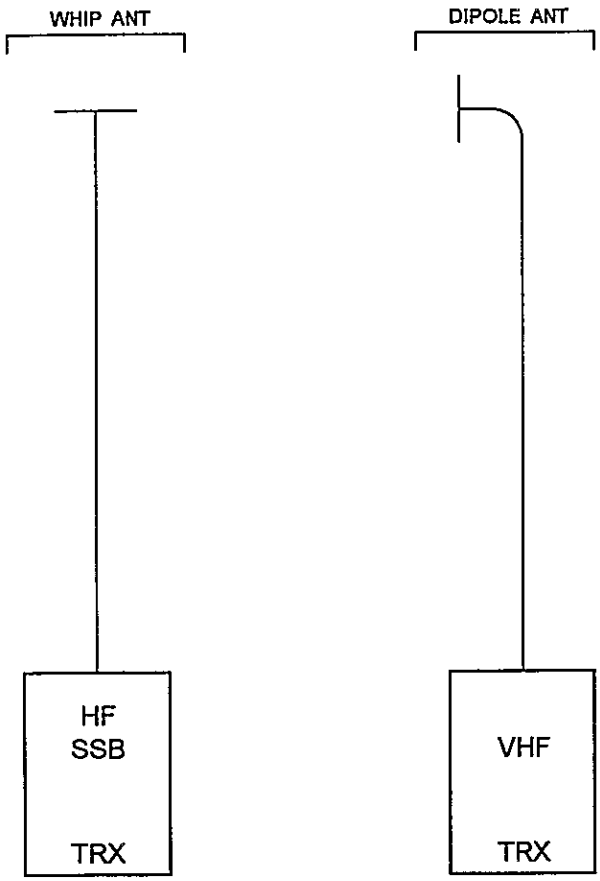
LEGEND

E/G : ENGINE GENERATOR

DATE: June 29, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: MUNTOK	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,M,N,T,-,0,5,5,-,4	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB

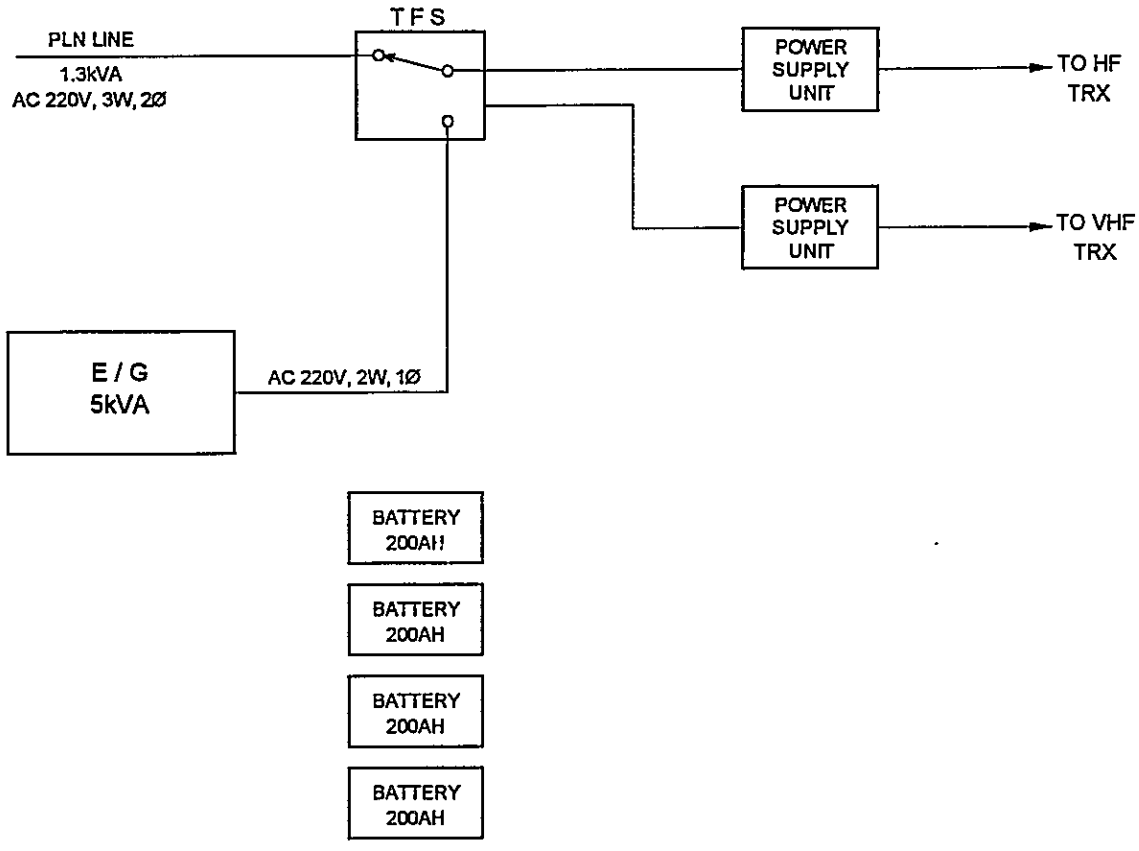


LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
TRX : TRANSCEIVER
VHF : VERY HIGH FREQUENCY

DATE: July 27, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MUNTOK	
DIMENSION: Milimeter	DRAWING NO.: SROP-MNT-055-5	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB
APPROVED BY JICA



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: MUNTOK	
DIMENSION: Milimeter	DRAWING NO: SROP-MNT-055-6	
JICA –	PT. Aneka Asia Buana	

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

4th-A Class Coast Station
Kuala Tungkal
(Coast Station No. 56)

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	KUALA TUNGKAL		
CLASS	4th-A	NO.	56

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Syarif Hidayat, Kuala Tungkal			103° 27′ 30″ E	00° 49′ 23″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Jambi	[Taking time: 1:30 hr]	☐ Highway	☐ Heavy	☐ Hotel	
By Car	to K. Tkl	[Taking time: 2:30 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	
				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	5.00 M		Telephone Lines	☑	☐ City water
Land area	495.00 m²		☐ Lines		

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Wooden
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Board
Wall finish	Whitewashing
Flooring	Board
Room Area (m²)	
Operation room	12.00
E / G room	6.25
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	110 V
Phase	1	1
Wire	2	2
kVA	1	2.5

Quality of PLN source	
Fluctuations	10 V ± 5 %
Availability of power per day	24 Hours
Power interruption /month	8 Times
Total interpt. hours /month	16 Hours
Max. interpt. hours at once	6 Hours

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

Capacity of fuel for engine	
Day tank	20 Liter
Main tank	0.2 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 or in District Navigation Office
Examples of major failure	Damaged by lightening
Sufficiency of spares	Un-Sufficient

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)	3 0	0
Technician (skilled)	1 0	0
Administrator	1	
Total	6	

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	KUALA TUNGKAL		
CLASS	4th-A	NO.	56

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: Kuala Tungkal

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF Transceiver	IC-M700	50703	Japan	1996			Good
1-2		**VHF System**							
1		VHF Transceiver	IC-N-1260SC	03509	Japan	1996			Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		20mH Self Supporting	Triangle			1982			Good
2		18mH Pipe				1996			Good
3		**Power Supply System**							
3-1		**Engine Generator**							
1		Engine Generator 2.5kVA							Good
4		**Measuring Equipment**							
1		AVO Meter							
5		**Others**							
1		Tool Set							

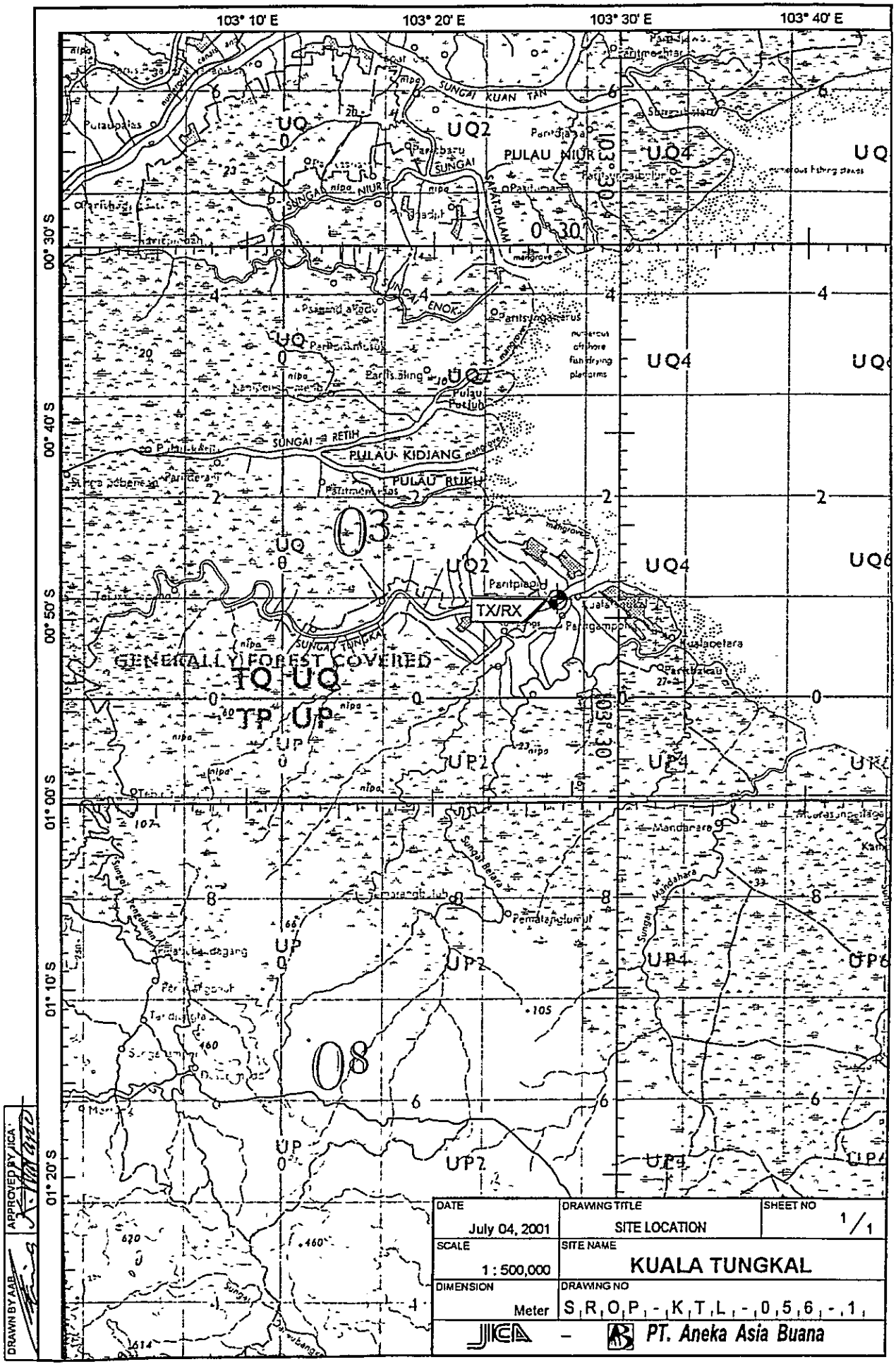
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Kuala Tungkal

KLT-056-(1/1)

Call Sign : Mobile Service : PKC.62
Fix Service :

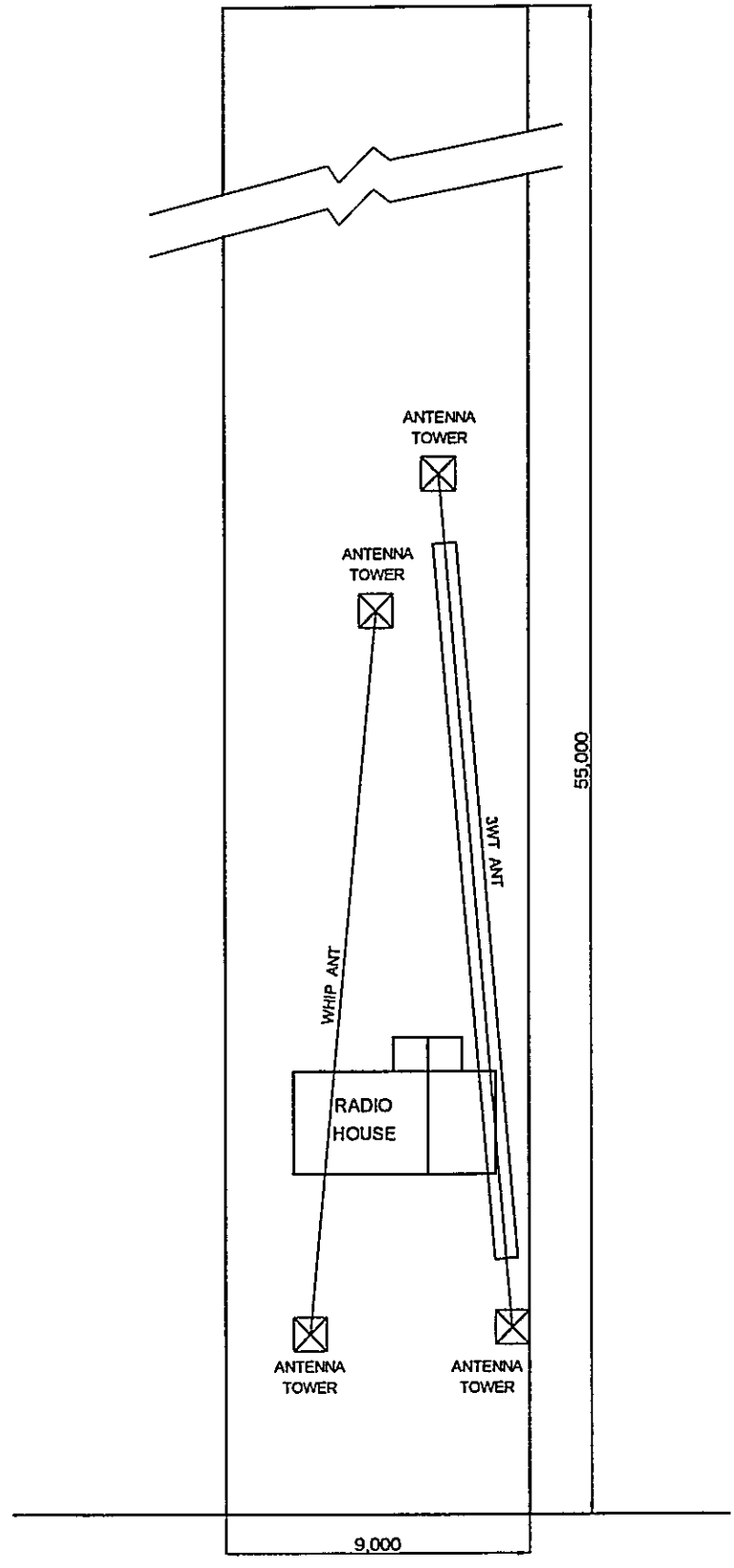
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	25		
2	6 215,0	J3E	25		
3	2 990,0	J3E	25		
4	6 209,0	J3E	25		
	VHF Service				
5	Channel-12	G3E	100		
6	Channel-14	G3E	100		
7	Channel-16	G3E	100		
8	Channel-26	G3E	100		
	Fix Service				
9	5 381,5	J3E	150		
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



DATE: July 04, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: KUALA TUNGKAL	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,K,T,L,-,0,5,6,-,1,	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA



LEGEND

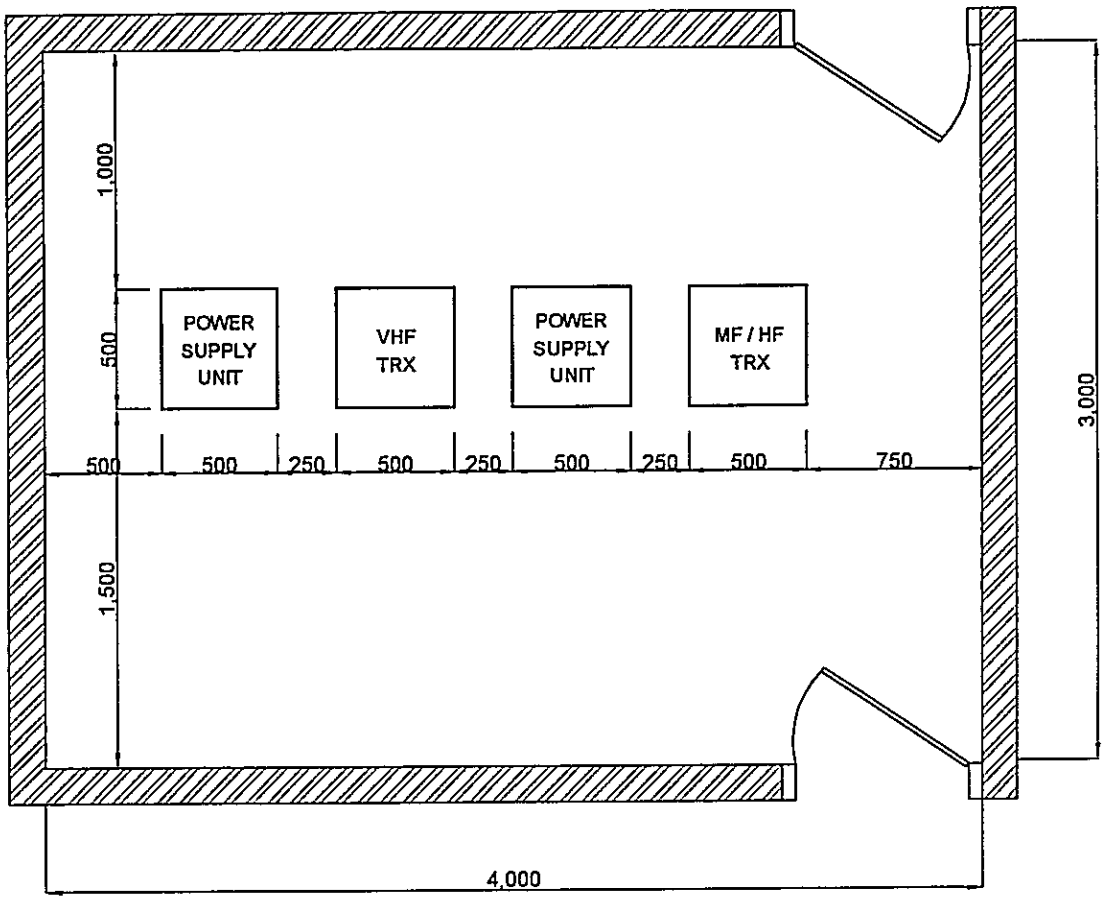
ANT : ANTENNA

WT : WIRE T TYPE

APPROVED BY JICA

DRAWN BY AAB

DATE: June 29, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 200	SITE NAME: KUALA TUNGKAL	
DIMENSION: Milimeter	DRAWING NO.: SROP-KLT-056-2	
JICA –	PT. Aneka Asia Buana	



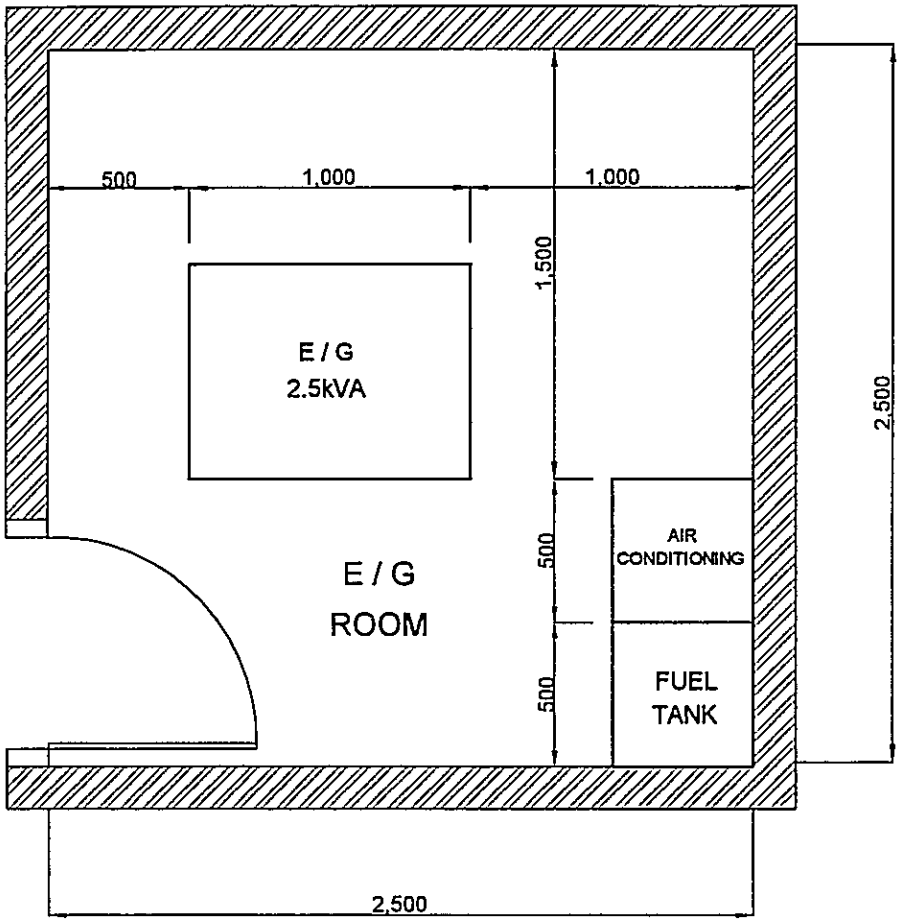
LEGEND

HF : HIGH FREQUENCY
MF : MEDIUM FREQUENCY
TRX : TRANSCEIVER
VHF : VERY HIGH FREQUENCY

DATE: June 29, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 30	SITE NAME: KUALA TUNGKAL	
DIMENSION: Milimeter	DRAWING NO.: SROP-KLT-056-3	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



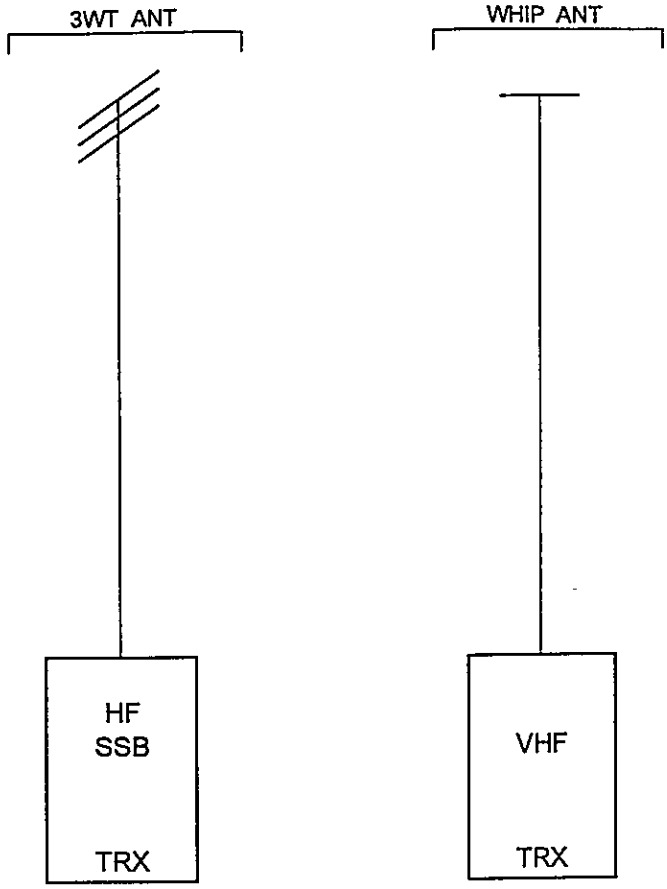
LEGEND

E/G : ENGINE GENERATOR

DATE: June 29, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 25	SITE NAME: KUALA TUNGKAL	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,L,T,-,0,5,6,-,4,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA

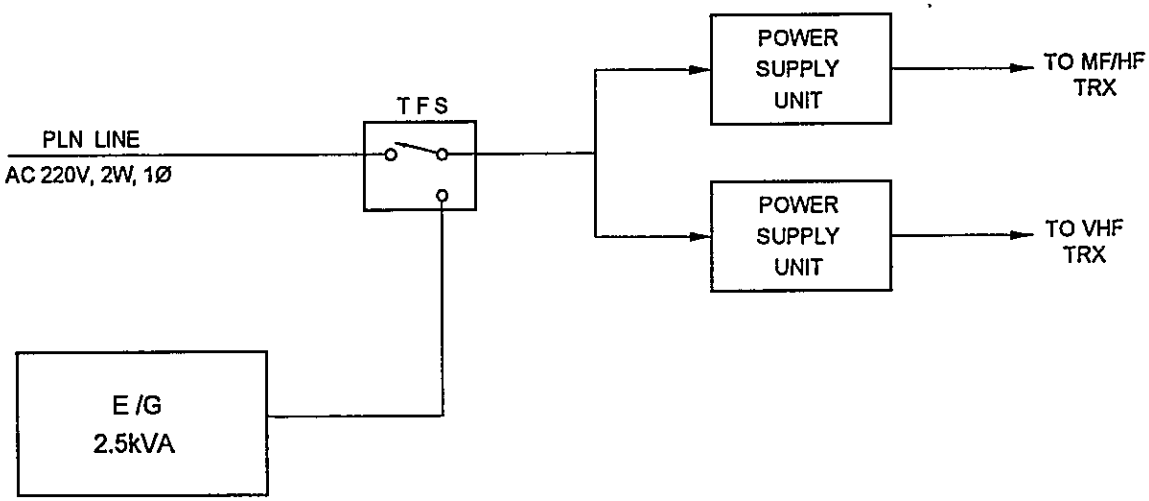


LEGEND

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

DATE: June 29, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: KUALA TUNGKAL	
DIMENSION: Milimeter	DRAWING NO.: SROP-KLT-056-5	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB : APPROVED BY JICA :



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: June 29, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: KUALA TUNGKAL	
DIMENSION: Milimeter	DRAWING NO.: SRO,P-KLT-056-6	
JICA –	PT. Aneka Asia Buana	

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

4th-A Class Coast Station
Pangkal Balam
(Coast Station No. 57)

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	PANGKAL BALAM		
CLASS	4th-A	NO.	57

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No.1, Pkl. Balam			106° 08′ 00″ E	02° 10′ 07″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to P. Balam	[Taking time: 1.30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car	to Location	[Taking time: 3.00 hr.]	☑ Paved	☐ Medium	☐ Motel	
			☐ Unpaved road	☑ Light		
				☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
				Yes	No
☑ Flat	☑ Dry soil	☐ Limestone	☐ Flood	☑	☐ Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐	☑ Towers (Masts)
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑	☐ Grounding system
☐ Basin	☐ Clay		☐ Ground Subsidence	☐	☑ Lightning system
☐ Valley	☐ Sandy			☐	☑ Feeder Cable Way
Altitude	M		Telephone Lines	☐	☑ City water
Land area	m²		☐ Lines		

3.2 Building Conditions

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

Room Area (m²)	
Operation room	12 60
E / G room	14.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	110 V
Phase	2	1
Wire	3	2
kVA	1.3	5

Quality of PLN source			
Fluctuations	10 V ± 5 %		
Availability of power per day	24 Hours		
Power interruption /month	12 Times		
Total interpt. hours /month	36 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	20 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	Repaired by himself or to District Navigation Office

Records of damages		Environmental Conditions		
		Good	Bad	
☑ Heavy rainfall	Damaged by lightening			
☑ Storm	Not sufficient	☑	☐	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		
Total	3	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	PANGKAL BALAM		
CLASS	4th-A	NO.	57

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			260
1997					1992			266	1997			265
1998					1993			270	1998			275
1999					1994			240	1999			266
2000					1995			263	2000			264

7. COMMENTS

Suggestion	Generally the equipment has been aged, request new one. In Pangkalan Balam, Maritime telecommunication play a central role, but the equipment facility do not sufficient, therefore communication with incoming ship in Pangkal Balam Port is a major handicap.
Remarks	

INVENTORY

Site Name: Pangkal Balam

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Radiotelephone	FS-100A	-	Furuno	1978			Damaged
2		SSB Transceiver	FT-300C	08505051	Yaesu	1983			Damaged
3		SSB Transceiver JSB-50	NTD-177	BS-12231	JRC	1972			Damaged
4		SSB Transceiver	IC-M710		Japan	1996			Good
1-2		**VHF System**							
1		VHF/FM Transceiver	JHV-207R	CB-56517	JRC	1973			Damaged
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		Antenna Tower				1972			Good
2-2		**Antenna System**							
1		Antenna (2 set)				1972			Not so good
2-3		**Antenna Selector**							
1		Antenna Coupler	XW-49	BP-73274	JRC	1972			Damaged
2		Antenna Coupler	XW-49	BP-73275	JRC	1972			Damaged
3		Antenna Changer	AW-244	BP-80625	JRC	1972			Damaged
3		**Power Supply Equipment**							
3-1		**Distribution Board**							
1		Distribution Board	NCB-430	BP-10227	JRC	1972			Damaged
3-2		**Step-Down Transformer**							
1		Step-Down Tranformer	MFG		M'naga	1972			Damaged

INVENTORY

Site Name: Pangkal Balam

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-3		UPS							
1		2 kVA AVR	MA-1020	2101,08	Stavol	1972			Damaged
2		Battery Charger	MFD	8132	Stanly	1972			Damaged
3		Battery Charger	MFD	8132	Stanly	1972			Damaged
4		Acumulator	N-200	-	MF				Damaged
5		Acumulator	N-200	-	GS				Damaged
3-4		Engine Generator							
1		Engine (1 set)	TS-130C	20085	Yanmar	1972			Damaged
2		Generator	MFG	80300171	Yanmar	1972			Damaged
4		Measuring Equipment							
1		Volt Meter	PM-9B	C-72343F	TOA	1972			Damaged
2		Frequency Counter (2)	NJM-176C	21974	JRC	1972			Damaged
3		Watt Meter-SWR	23-136	-	Midland	1982			Damaged
5		Others							
1		Dry Chemical (2)	UE-4-II	-	LEpinx	1974			Damaged
2		Foam Extinguisher	2-NP	-	Hatsuta	1978			Damaged
3		Clock	Chronometer	-	Wimpie	1978			Damaged
4		Clock	Seiko	-	Seiko	1981			Damaged
5		Dummy Antenna	AE-234	-	JRC	1972			Damaged

OPERATION SCHEDULE (FREQUENCIES)

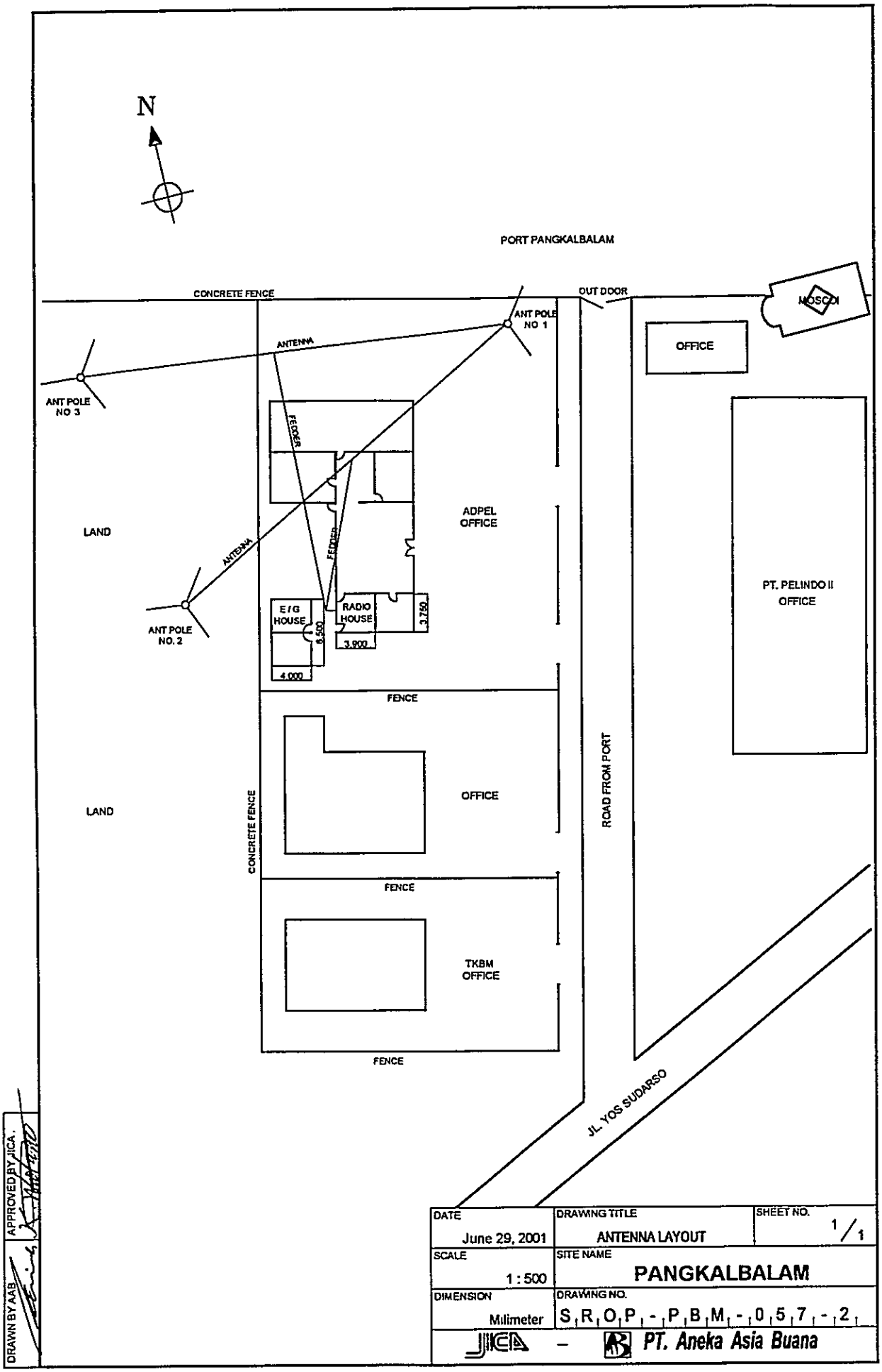
Site Name: Pangkal Balam

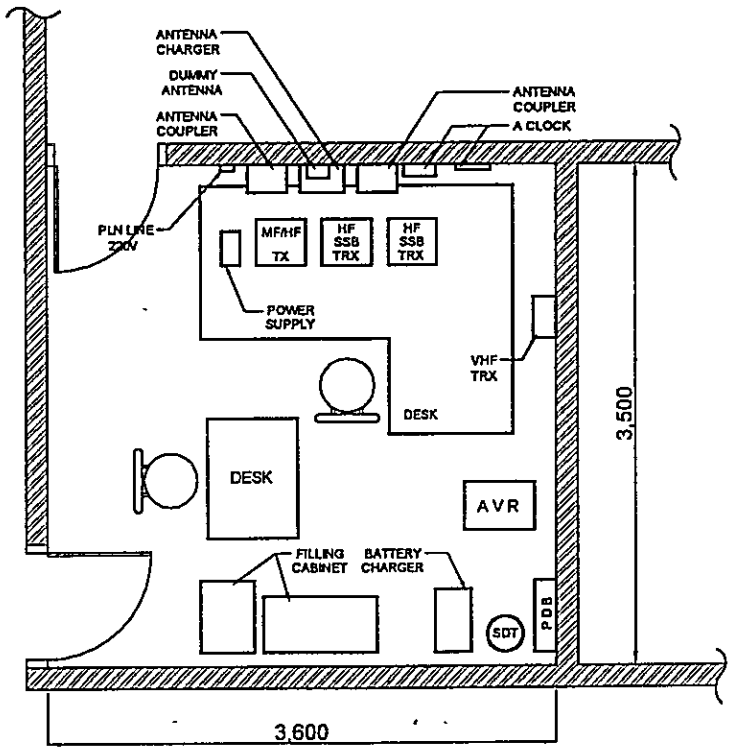
PBM-057-(1/1)

Call Sign : Mobile Service PKC.5
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
	2 182,0	J3E	100		
2	2 690,0	J3E	100		
3	6 215,0	J3E	100		
4	6 510,0	J3E	100		
5	8 806,0	J3E	100		
	VHF Service				
6	Channel-10	G3E	25		
7	Channel-15	G3E	25		
8	Channel-16	G3E	25		
9	Channel-20	G3E	25		
10	Channel-22	G3E	25		
	Fix Service				
11	5 381,5	J3E	100		
12	4 446,5	J3E	100		
13	6 296,0	J3E	100		
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

DRAWN BY AAB	APPROVED BY JICA	
DATE: July 03, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 . 250,000	SITE NAME: PANGKAL BALAM	
DIMENSION: Meter	DRAWING NO.: S R O P - P B M - 0 5 7 - 1	
JICA – PT. Aneka Asia Buana		


N
PORT PANGKALBALAM
CONCRETE FENCE
OUT DOOR
MOSCOI
ANT POLE NO 1
ANTENNA
OFFICE
ANT POLE NO 3
FEEDER
ADPEL OFFICE
LAND
ANTENNA
FEEDER
PT. PELINDO II OFFICE
E/G HOUSE
RADIO HOUSE
3.750
6.500
3.900
4.000
ANT POLE NO. 2
FENCE
OFFICE
ROAD FROM PORT
CONCRETE FENCE
LAND
FENCE
TKBM OFFICE
FENCE
JL. YOS SUDARSO
DRAWN BY AAB
APPROVED BY JICA
DATE
June 29, 2001
DRAWING TITLE
ANTENNA LAYOUT
SHEET NO.
1/1
SCALE
1 : 500
SITE NAME
PANGKALBALAM
DIMENSION
Milimeter
DRAWING NO.
SROP-PBM-057-2
JICA – PT. Aneka Asia Buana



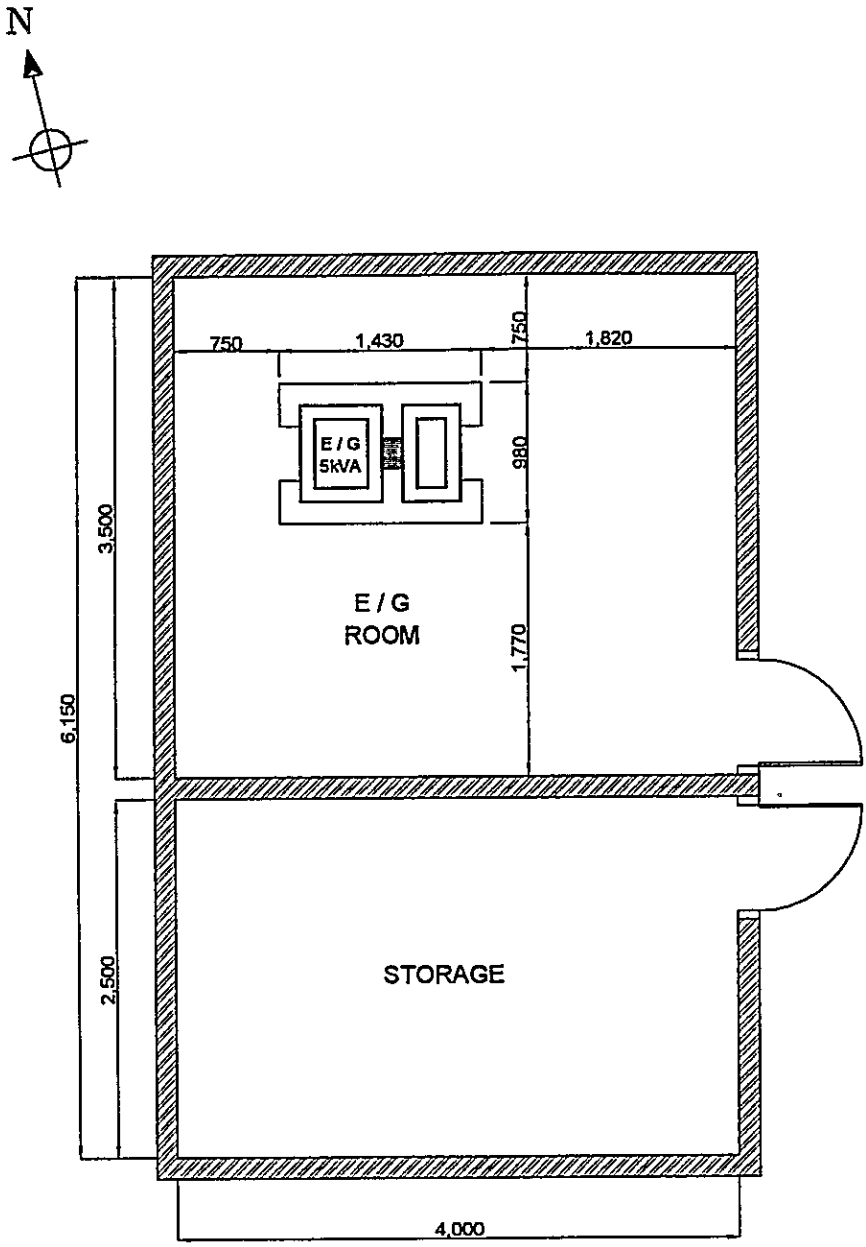
LEGEND

AVR : AUTOMATIC VOLTAGE REGULATOR
PDB : POWER DISTRIBUTION BOARD
SDT : STEP - DOWN TRANSFORMER
PDB : POWER DISTRIBUTION BOARD
SDT : STEP - DOWN TRANSFORMER
TX : TRANSMITTER (ING)
TRX : TRANSCEIVER (ING)
V : VOLT
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: June 29, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: PANGKALBALAM	
DIMENSION: Milimeter	DRAWING NO.: SROP-PBM-057-3	
JICA –	PT. Aneka Asia Buana	



LEGEND

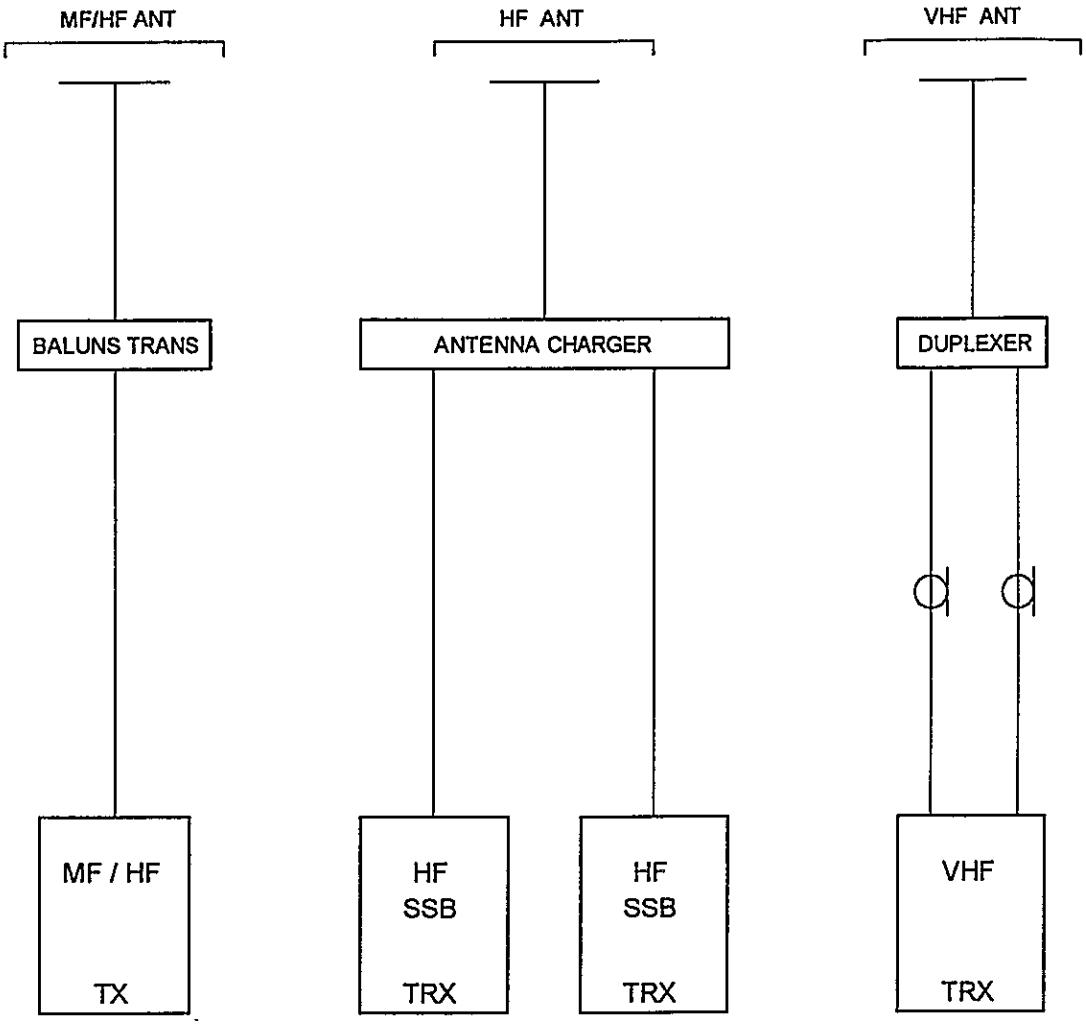
E/G : ENGINE GENERATOR

kVA : KILO VOLT AMPERE

DATE: June 29, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: PANGKALBALAM	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,B,M,-,0,5,7,-,4,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



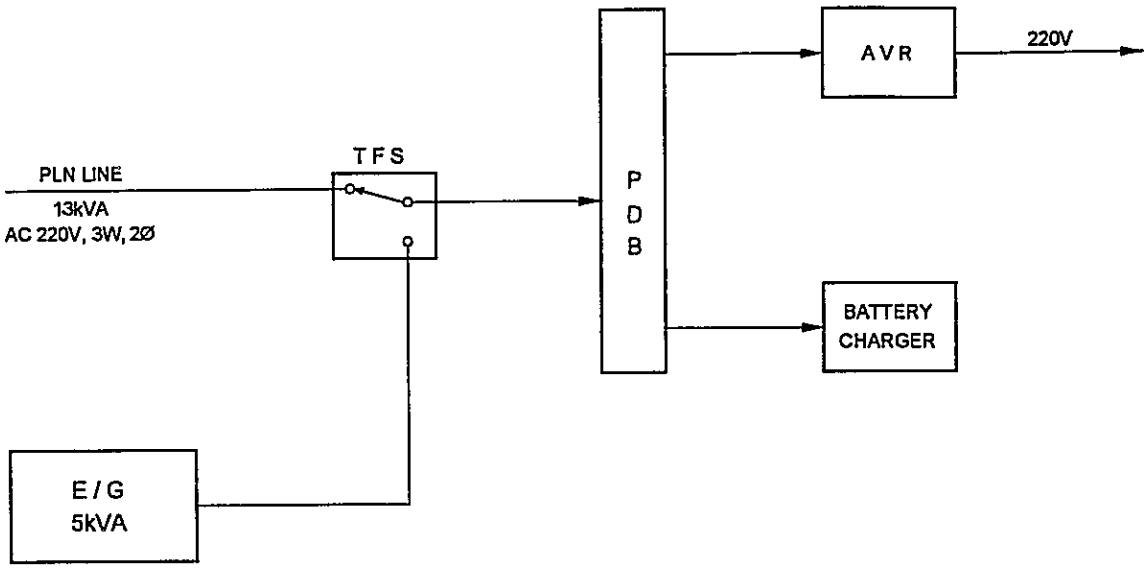
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: June 29, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PANGKALBALAM	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,B,M,-,0,5,7,-,5,	
JICA –	PT. Aneka Asia Buana	



DRAWN BY AAB

APPROVED BY JICA

LEGEND

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

DATE: June 29, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PANGKALBALAM	
DIMENSION: Milimeter	DRAWING NO.: SROP-PBM-057-6	
JICA –	PT. Aneka Asia Buana	

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

4th-A Class Coast Station

Tg. Pandan

(Coast Station No. 58)

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	TANJUNG PANDAN		
CLASS	4th-A	NO.	58

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan No. 1, Tanjung Pandan	0719-21067	0719-22949	107° 37′ 47″ E	02° 44′ 38″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Tg. Pandan	[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 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	82 M		**Telephone Lines**	☑ ☐ Feeder Cable Way
Land area	3,760 m²		☑ 2 Lines	☐ ☑ City water

3.2 Building Conditions

Constructions	
Num of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic
Room Area (m²)	
Operation room	10.89
E / G room	
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	2	
Wire	3	
kVA	22	

Quality of PLN source			
Fluctuations	220 V ± 10 %		
Availability of power per day	24 Hours		
Power interruption /month	10 Times		
Total interpt. hours /month	40 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	Liter
Main tank	k Liter

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself or to District Navigation Office
Examples of major failure	Damaged by lightening
Sufficiency of spares	Not sufficient

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

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

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	0	0
Technician (skilled)	0	0
Administrator		
T o t a l		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	TANJUNG PANDAN		
CLASS	4th-A	NO.	58

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	Request to be equiped with Computer and Air Conditioner.
Remarks	Office building owned by Kanpel

INVENTORY

Site Name: Tanjung Pandan

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB Transceiver	FS-1000		Furuno	1987			Damaged
		SSB Transceiver	IC-M700	02808	ICOM	1998			Good
1-2		**VHF System**							
		VHF Transceiver	IC-2000H	69420	ICOM	1998			Good
		VHF Transceiver	FMS-1600	69602	Spilsbury				Good
2		**Tower and Antenna System**							
2-1		**Tower and Mast**							
1		Antenna Tower	Triangle						Good
2		Antenna Pole (3)	Pipe						Good
2-2		**Antenna System**							
1		Long Wire							Good
2		Whip Antenna							Good
2-3		**Antenna Matching Unit**							
1		Antenna Tuner	XW-40						Good
3		**Power Supply Equipment**							
3-1		**Power Supply Adaptor**							
1		Power Supply Unit	AK-3030 AU						Good
2		Power Supply Unit	EP-30A						Good
3		Power Supply Unit	NPS-8A						Good
4		**Others**							
1	205010103-03	Type Writer			Oliveti	1991			Good

STATUS OF TROUBLES

SITE NAME : TANJUNG PANDAN **TPD-58-(1/1)**

Item / Equipment	SSB Furuno / FS 1000		
Manufacturer	Furuno		
Manufacturer in year	1969		
Defective panel / unit	Power Amplifier		
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:			

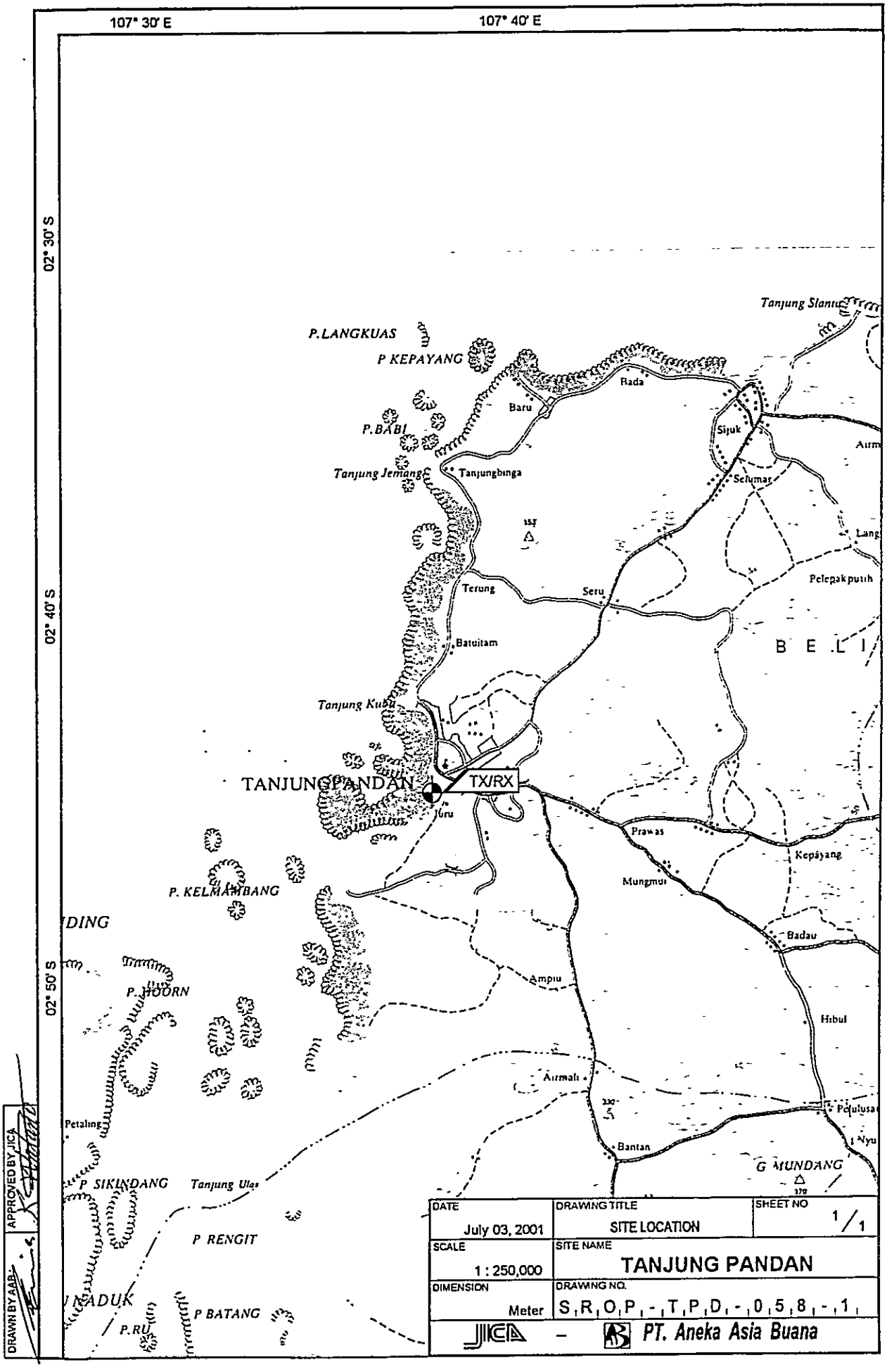
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Tanjung Pandan

TPD-058-(1/1)

Call Sign : Mobile Service : PKC.50
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	25		
2	6 215,0	J3E	25		
3	2 990,0	J3E	25		
4	6 209,0	J3E	25		
	VHF Service				
6	Channel-16	G3E	100		
7	Channel-17	G3E	100		
8	Channel-26	G3E	100		
	Fix Service				
9	5 318,5	J3E	150		
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					



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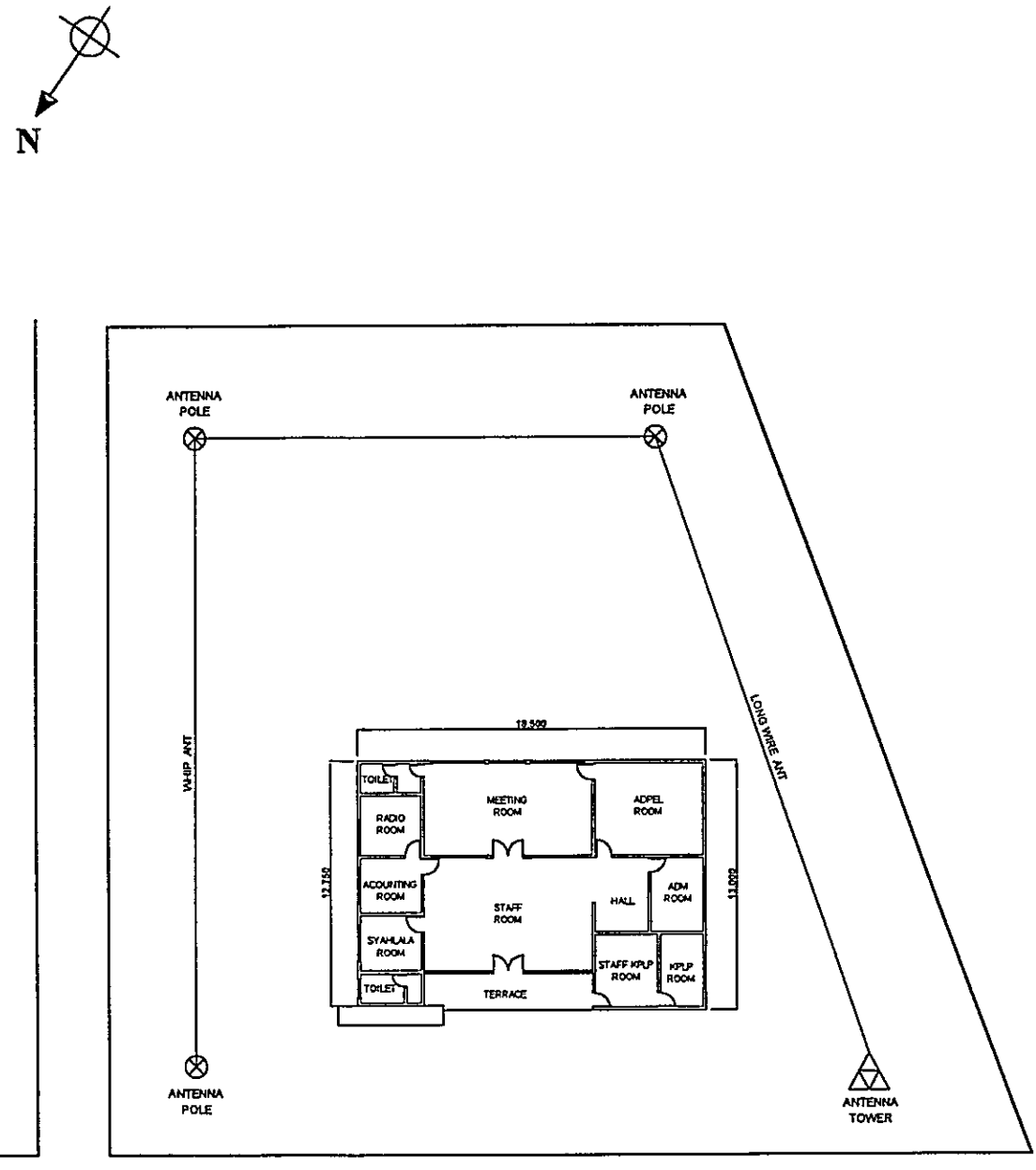
SCALE: 1 : 250,000	SITE NAME: TANJUNG PANDAN	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,T,P,D,-,0,5,8,-,1,	
JICA – PT. Aneka Asia Buana		

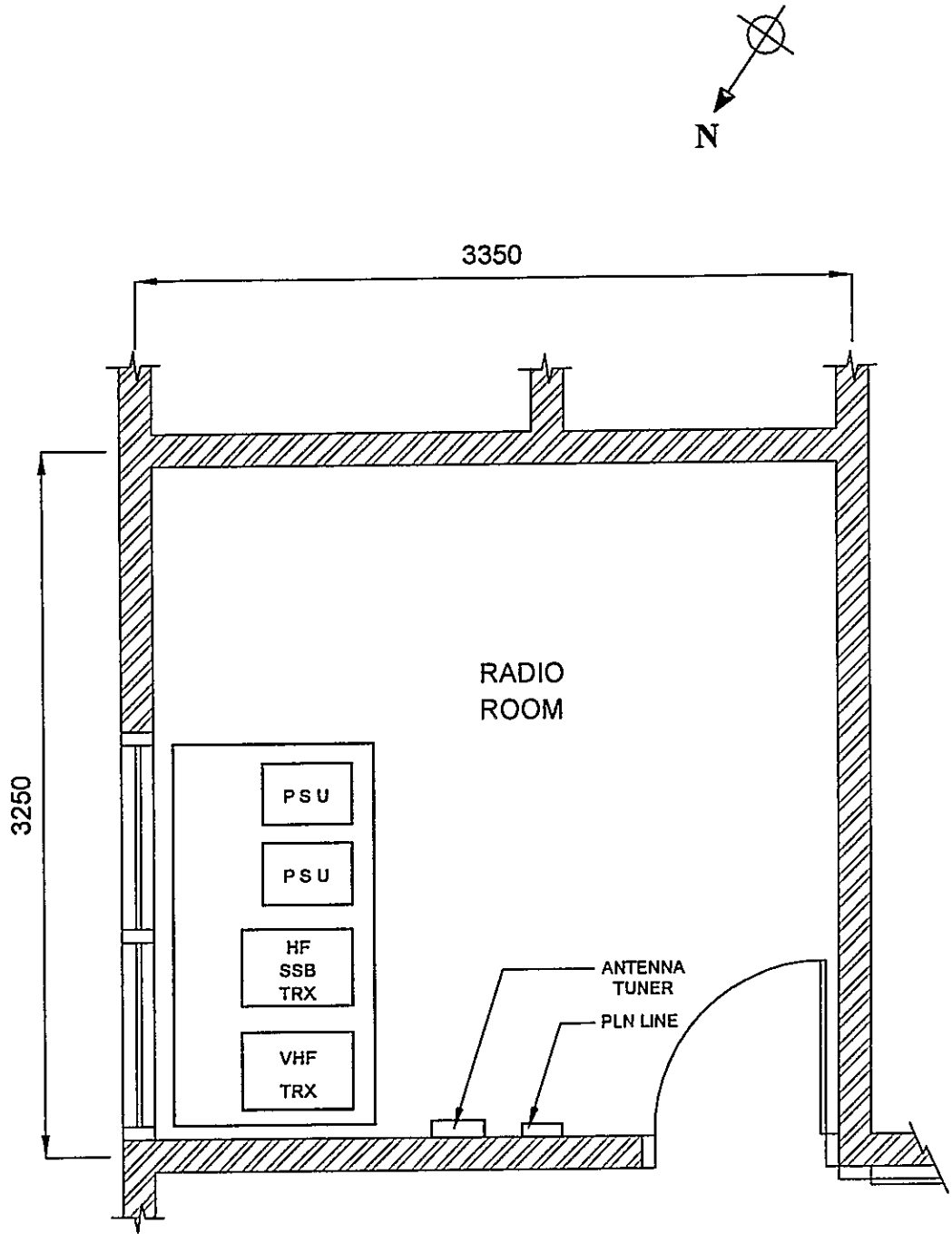
DRAWN BY AAB: APPROVED BY JICA



DATE: Sept 20, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 350	SITE NAME: **TANJUNG PANDAN**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,P,D,-,0,5,8,-,2,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA.

DRAWN BY AAB



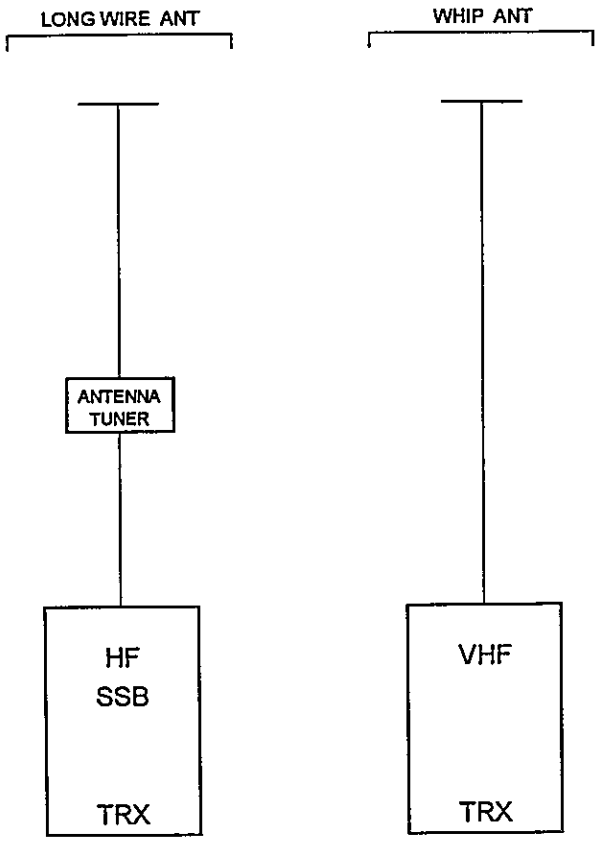
LEGEND

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

DATE: Sept 20, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 30	SITE NAME: TANJUNG PANDAN	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,P,D,-,0,5,8,-,3,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA:

DRAWN BY AAB:



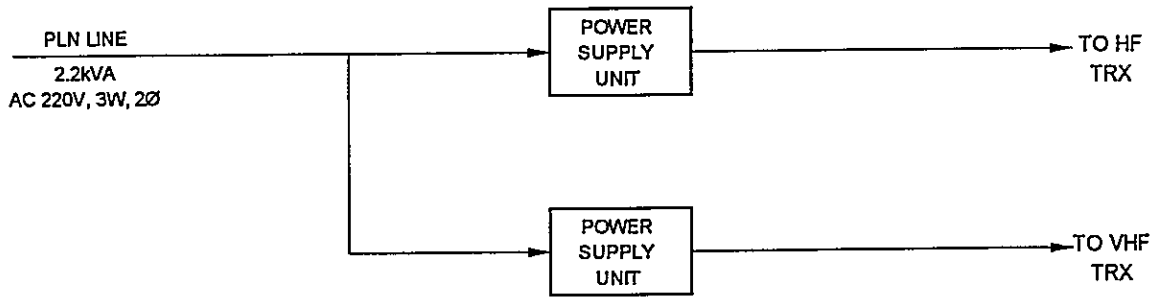
LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
TRX : TRANSCEIVER
VHF : VERY HIGH FREQUENCY

APPROVED BY JICA

DRAWN BY AAB

DATE: July 27, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: TANJUNG PANDAN	
DIMENSION: Milimeter	DRAWING NO: SROP-TPD-058-5	
JICA – PT. Aneka Asia Buana		



LEGEND

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

DRAWN BY AAB

APPROVED BY JICA

DATE: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: TANJUNG PANDAN	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,P,D,-,0,5,8,-,6,	
JICA –	PT. Aneka Asia Buana	

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

4th-B Class Coast Station

Nipah Panjang

(Coast Station No. 59)

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	NIPAH PANJANG		
CLASS	4th-B	NO.	59

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan No. 1, Nipah Panjang			104° 11′ 37″ E	01° 04′ 51″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Jambi	[Taking time:	1.00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	1,000,000
By Car	to Suakandis	[Taking time	2.00 hr.]	☐ Paved	☐ Medium	☑ Motel	
By Sp Boat	to NPJ	[Taking time	2:00 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	71.00 M		Telephone Lines	☑ Feeder Cable Way	☐
Land area	400.00 m²		☐ Lines	☐ City water	☑

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Wooden
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Wooden Board
Wall finish	Paint
Flooring	Wooden
Room Area (m²)	
Operation room	5.00
E / G room	6.00
Remark	Two battery damaged

3.3 Power Source

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

Quality of PLN source	
Fluctuations	10 V ± 10 %
Availability of power per day	14 Hours
Power interruption /month	30 Times
Total interpt. hours /month	300 Hours
Max. interpt. hours at once	24 Hours

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

Capacity of fuel for engine	
Day tank	20 Liter
Main tank	k Liter

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself or to Disnav Office
Examples of major failure	Damaged by lightening
Sufficiency of spares	Not sufficient

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

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	NIPAH PANJANG		
CLASS	4th-B	NO.	59

7 Capability of Technician	☐ Skilled	☑ Not so bad	☐ Not capable					

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	Equipment has been aged and maintenance not enough. It is to be upgraded for safety navigation.
Remarks	Office building owned by Kanpel

INVENTORY

Site Name: Nipah Panjang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB Transceiver	FT-300		Yaesu				Damaged
2		SSB Transceiver	IC-M700		ICOM	1990			Good
3		SSB Transceiver	IC-706		ICOM				
1-2		**VHF System**							
		VHF Transceiver	IC-M126DSC		ICOM				Good
2		**Tower and Antenna System**							
2-1		**Tower and Mast**							
1		Antenna Pole (2)	Pipe						Good
2-2		**Antenna System**							
1		Whip Antenna							Good
2		Whip Antenna							Good
2-3		**Antenna Matching Unit**							
1		Antenna Tuner	AT-120		ICOM				Good
3		**Power Supply Equipment**							
3-1		**Power Supply Adaptor**							
1		Power Supply Unit	PV-4010		RTVC				Good
2		Battery 12V/120AH	N-200		GS				Damaged
3		Battery 12V/120AH (2)	N-200		NS				Damaged

Palembang

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Nipah Panjang

NPJ-059-(1/1)

Call Sign : Mobile Service
Fix Service

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fix Service				
1	5 381,5	J3E	50		
2					
3					
4					
5					
6					
7					
8					
9					
10					
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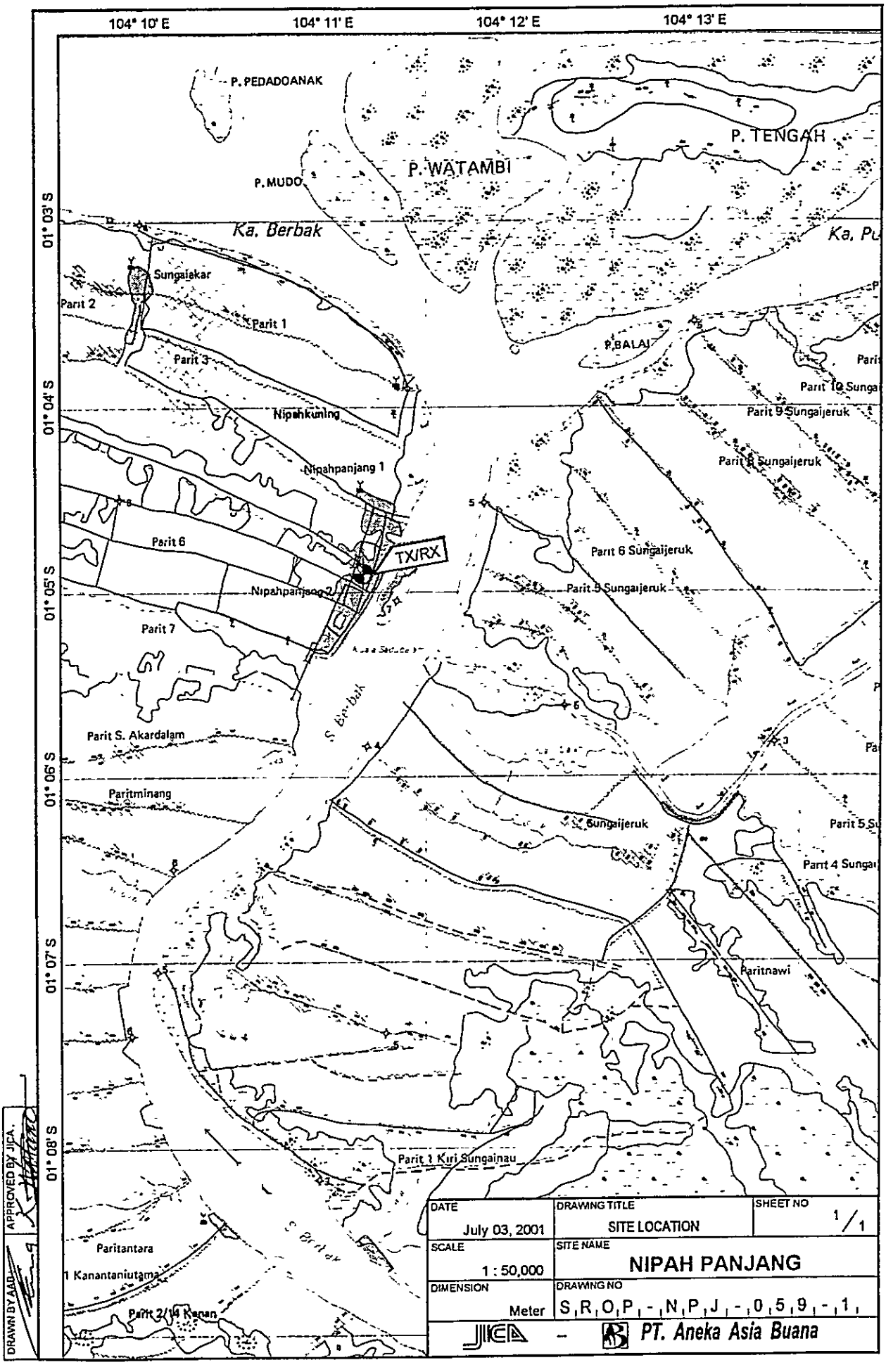
25					



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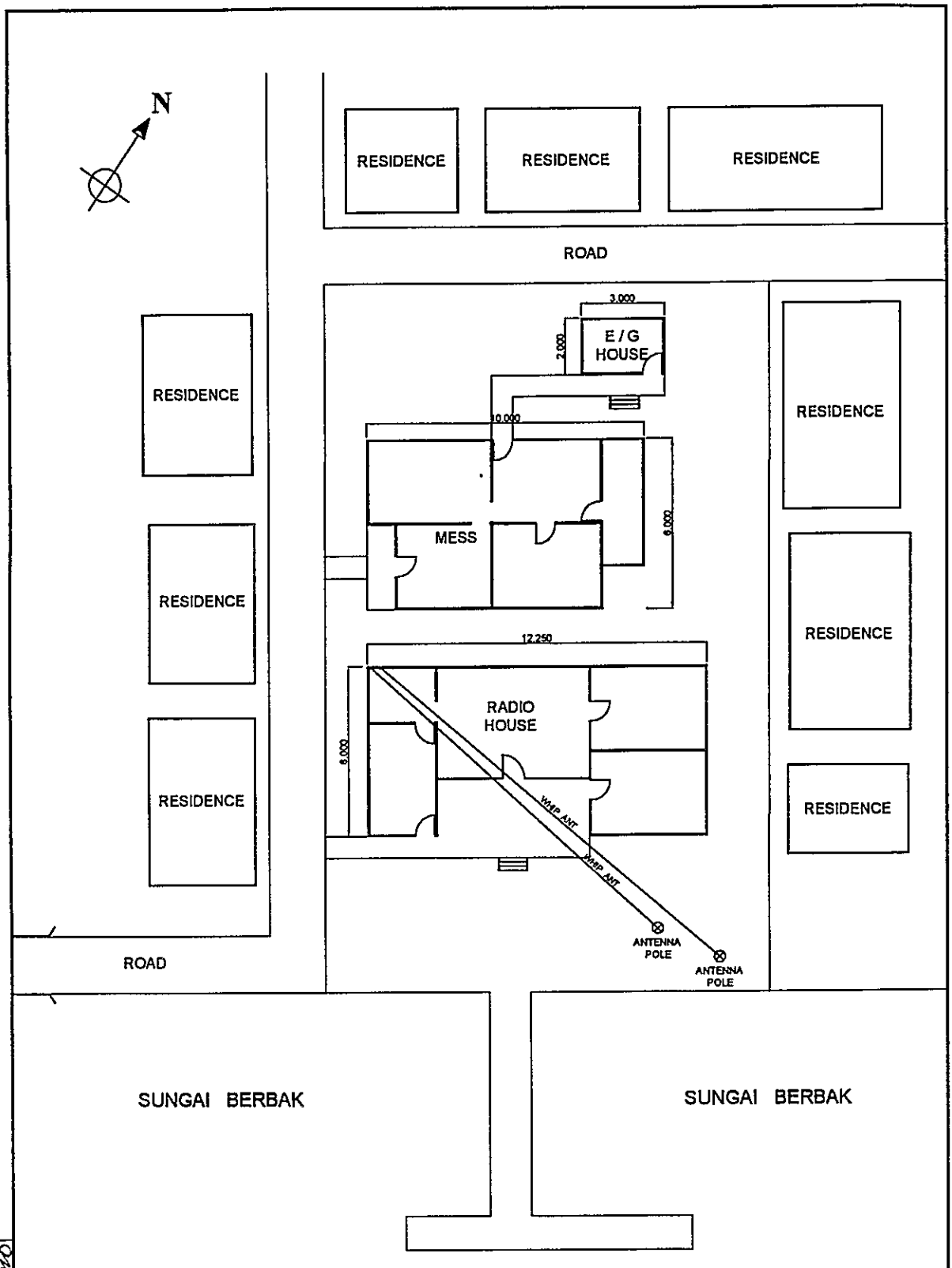
SCALE: 1 : 50,000	SITE NAME: NIPAH PANJANG	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,N,P,J,-,0,5,9,-,1,	
JICA - PT. Aneka Asia Buana		



DATE: Sept 21, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: NIPAH PANJANG	
DIMENSION: Milimeter	DRAWING NO: SROP-NPJ-059-2	
JICA –	PT. Aneka Asia Buana	

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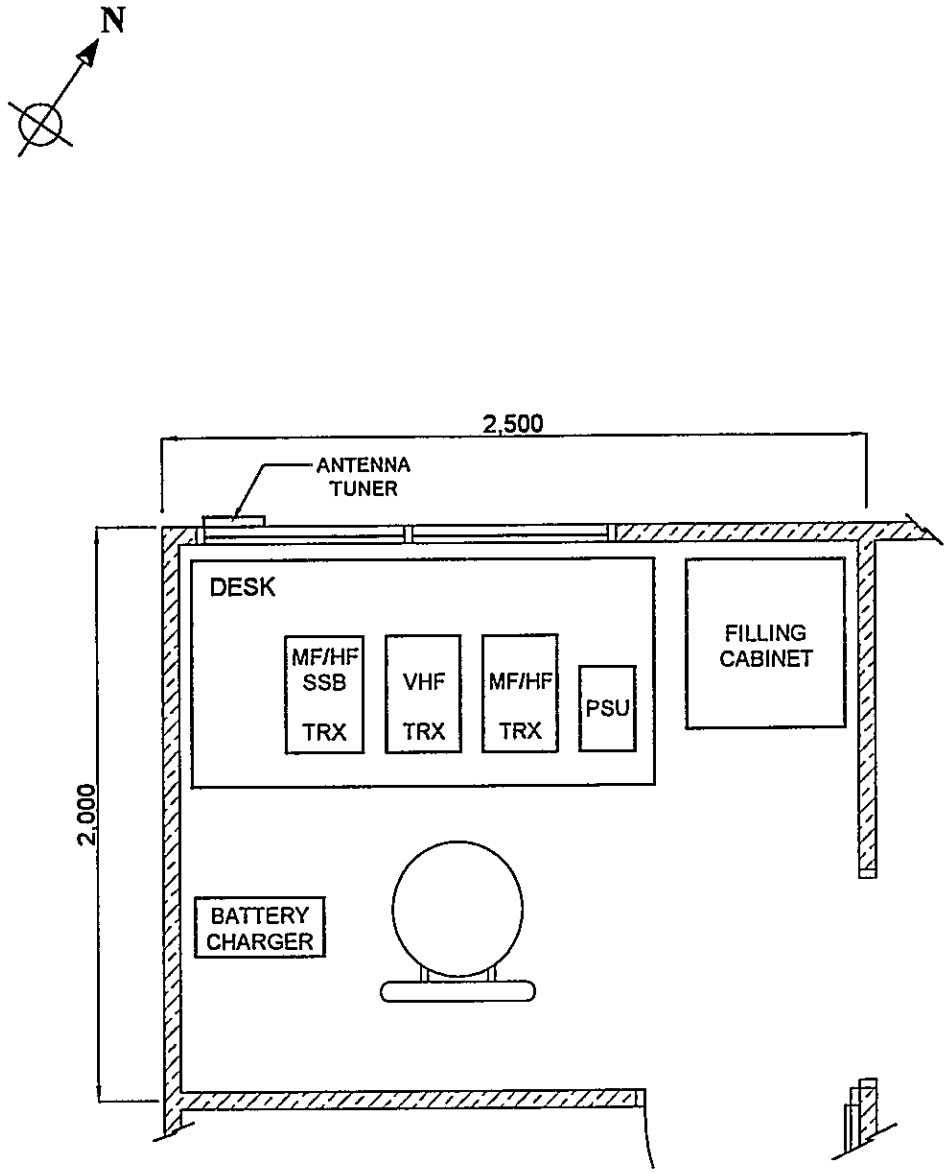


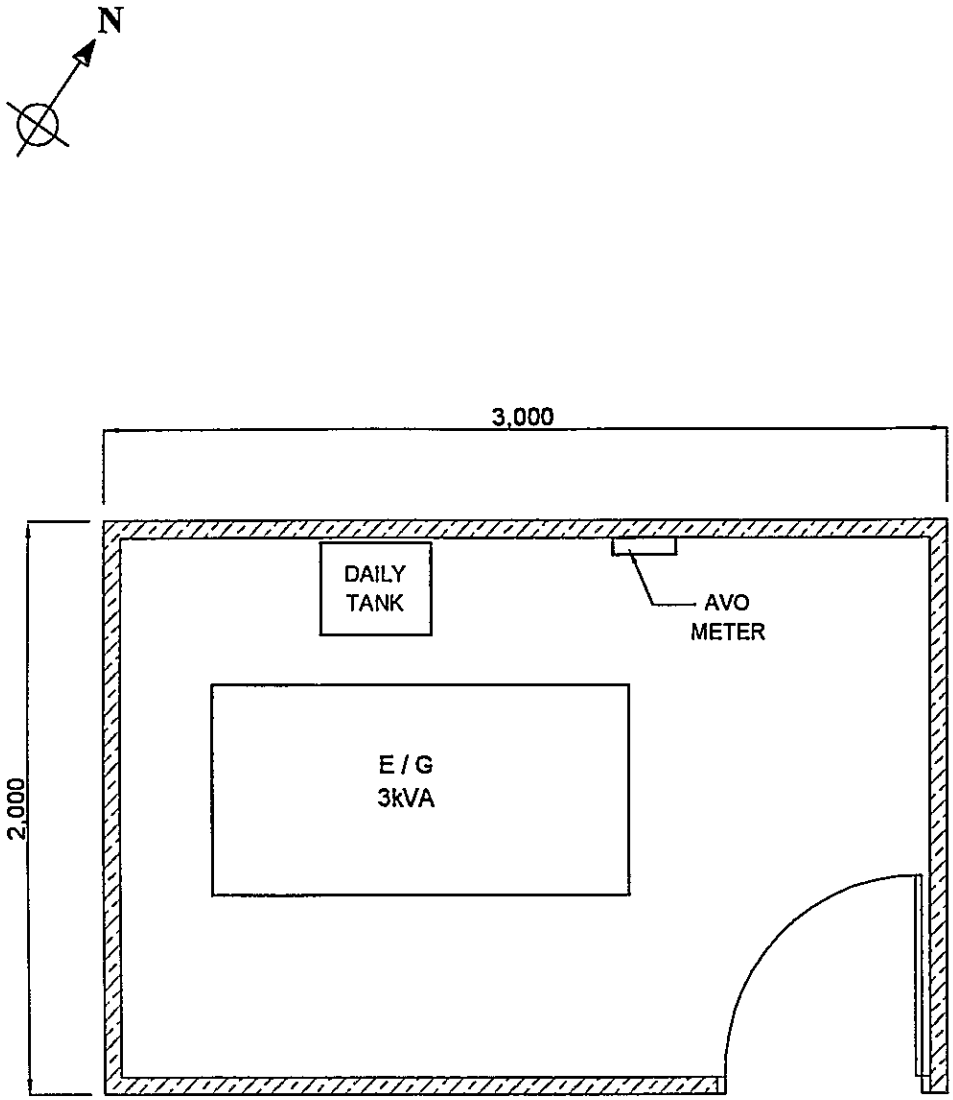
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 21, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: NIPAH PANJANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,N,P,J,-,0,5,9,-,3,	
JICA –	PT. Aneka Asia Buana	



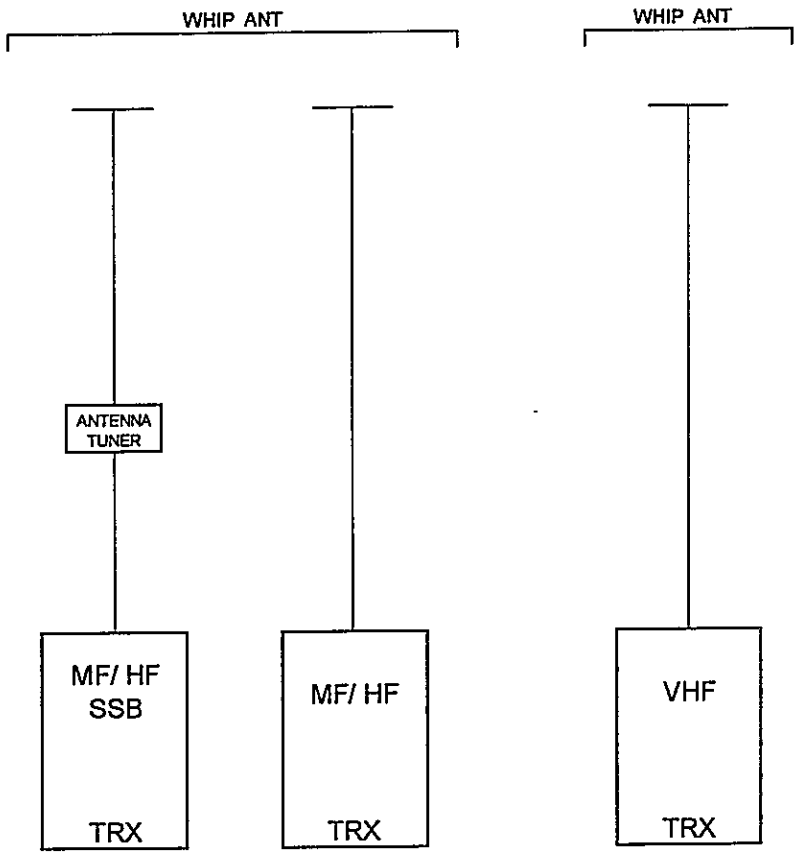
LEGEND

E/G : ENGINE GENERATOR
KVA : KILO VOLT AMPERE

DATE: Sept 21, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25	SITE NAME: NIPAH PANJANG	
DIMENSION: Milimeter	DRAWING NO.: SROP-NPJ-059-4	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



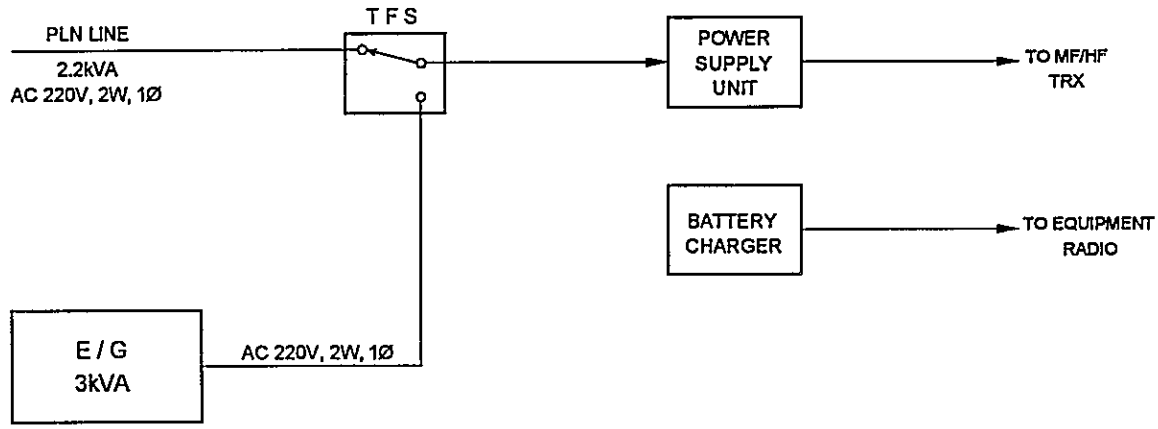
LEGEND

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

DATE: Sept 20, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: NIPAH PANJANG	
DIMENSION: Milimeter	DRAWING NO: SROP-NPJ-059-5	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA.



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 20, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: NIPAH PANJANG	
DIMENSION: Milimeter	DRAWING NO: SROP-NPJ-059-6	
JICA –	PT. Aneka Asia Buana	

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

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

4TH-B CLASS COAST STATION
MANGGAR
(COAST STATION No. 60)

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

4th-B Class Coast Station

Manggar

(Coast Station No. 60)

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	MANGGAR		
CLASS	4th-B	NO.	60

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Sudirman No 74, Manggar	0719-91140		108° 17′ 18″ E	02° 50′ 56.7″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Tg. Pdn [Taking time: 1:30 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Car to Manggar [Taking time: 3 00 hr.]	☑ Paved	☐ Medium	☑ Motel	
	☐ Unpaved road	☑ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☑ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☑ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☑ Sandy			☑ ☐ Lightning system
Altitude	82.00 M		Telephone Lines	☑ ☐ Feeder Cable Way
Land area	1,000 m²		☑ 1 Lines	☑ ☐ City water

3.2 Building Conditions

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

Room Area (m²)	
Operation room	10.50
E / G room	

3.3 Power Source

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

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	2 Times	
Total interpt. hours /month	6 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	Liter
Main tank	k Liter

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

Remark: Inventory has been deleted by Minister Decision No. KP.260 Year 2000

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself or to District Navigation Office
Examples of major failure	Damaged by lightening
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)	0	0
Technician (skilled)	0	0
Administrator		
Total	1	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	MANGGAR		
CLASS	4th-B	NO.	60

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	The equipment (SSB Spilsbury SBX.100 EX, 1986 - damage condition) has been deleted from inventory list of Manggar Port (Decree of Communication Minister No. KP. 260 Year 2000, dated June 22, 2000).
Remarks	Inventory has been deleted by Minister Decision No. KP. 260 Year 2000

INVENTORY

Site Name: Manggar

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**MF/HF System**							
1		SSB Transceiver			Spilsbury			Stored at T. Pandar	Good
2		**Tower and Antenna System**							
2-1		**Tower and Mast**							
1		Antenna Pole (2)	Steel Pipe						
2-2		**Antenna System**							
1		Whip Antenna							
3		**Power Supply Equipment**							
3-1		**Power Supply Adaptor**							
1		Power Supply Unit							

STATUS OF TROUBLES

SITE NAME : MANGGAR **MGR-60-(1/1)**

Item / Equipment	SSB / -		
Manufacturer	USA		
Manufacturer in year	1979		
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:			

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Manggar

MGR-060-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	5 381,5	J3E	150		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
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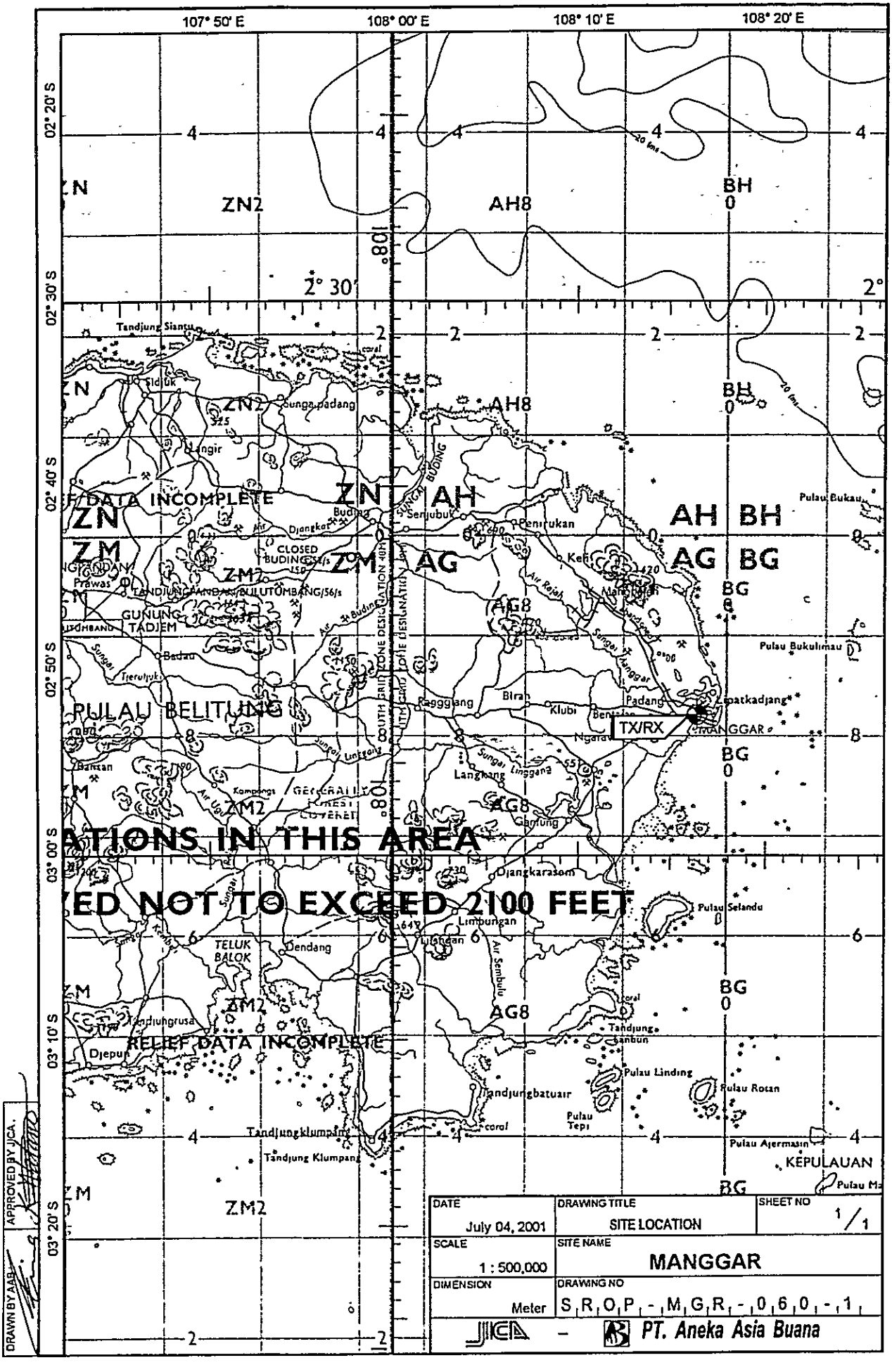
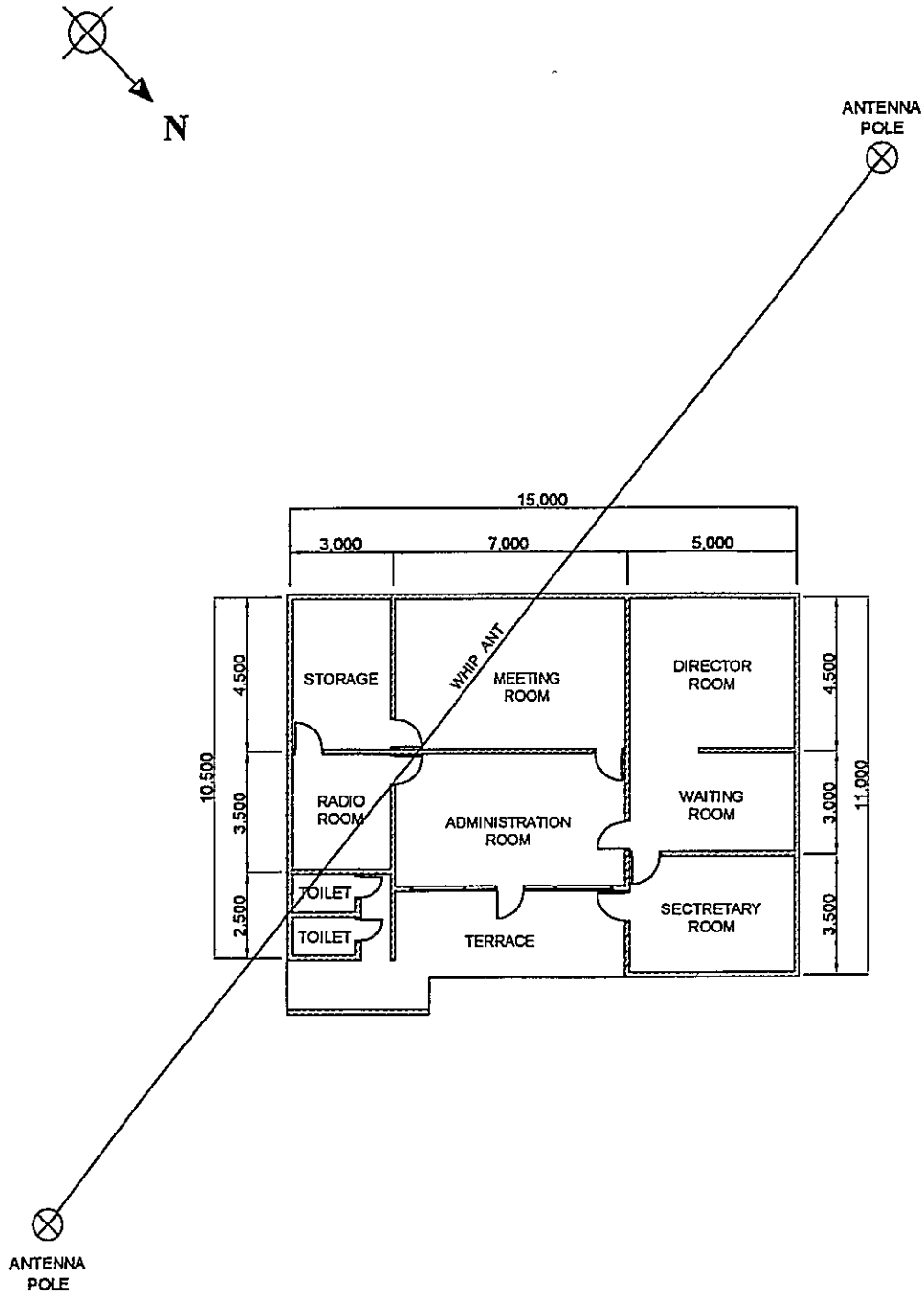
27					



DATE: July 04, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: MANGGAR	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,M,G,R,-,0,6,0,-,1	
JICA – PT. Aneka Asia Buana		

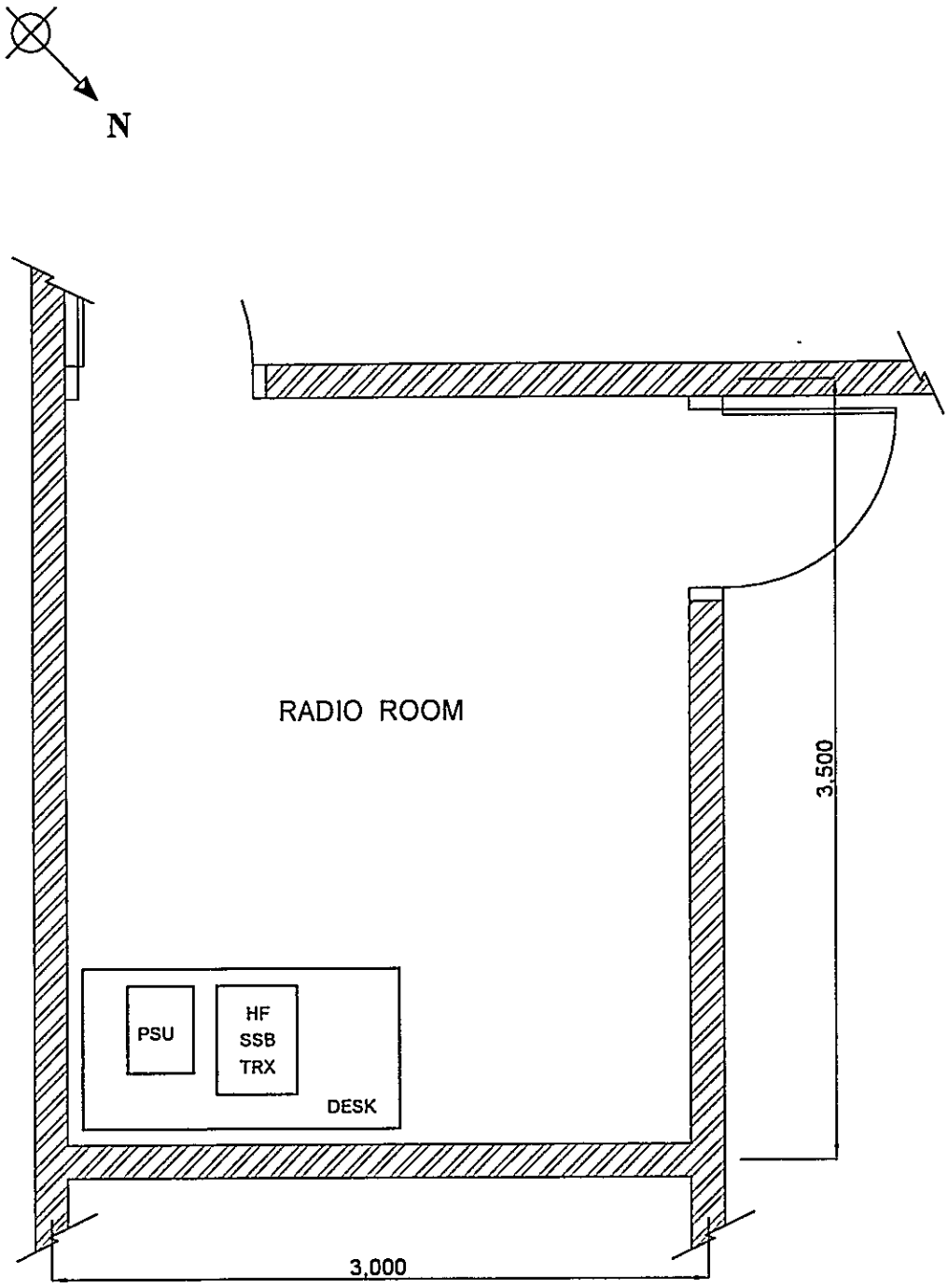
DRAWN BY AAB | APPROVED BY JICA



DRAWN BY AAB

APPROVED BY JICA

DATE: Sept 21, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: MANGGAR	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,G,R,-,0,6,0,-,2,	
JICA –	PT. Aneka Asia Buana	



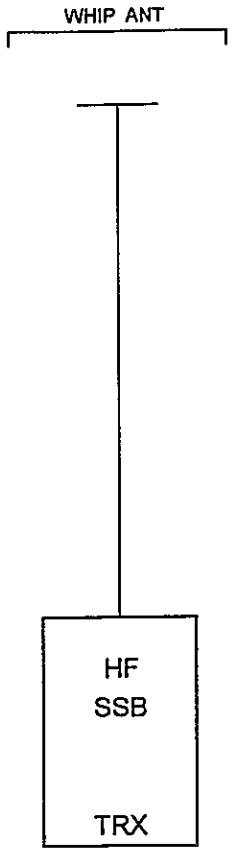
LEGEND

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

DATE: Sept 21, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 30	SITE NAME: MANGGAR	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,M,G,R,-,0,6,0,-,3,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



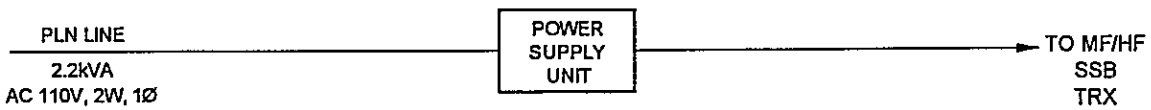
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 27, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: MANGGAR	
DIMENSION: Milimeter	DRAWING NO.: SROP-MGR-0601-5	
JICA – PT. Aneka Asia Buana		



LEGEND

AC	: ALTERNATING CURRENT
HF	: HIGH FREQUENCY
MF	: MEDIUM FREQUENCY
TRX	: TRANSCEIVER
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: MANGGAR	
DIMENSION: Milimeter	DRAWING NO.: SROP-MGR-060-6	
JICA –	PT. Aneka Asia Buana	

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

4th-B Class Coast Station

Sungai Selan

(Coast Station No. 61)

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	SUNGAI SELAN		
CLASS	4th-B	NO.	61

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Sungai Selan			105° 58′ 53″ E	02° 23′ 09″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Pkl. Png	[Taking time 1.30 hr]	☐ Highway	☐ Heavy	☐ Hotel	
By Car	to S. Selan	[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	71.00 M		Telephone Lines	☐	☑ Feeder Cable Way
Land area	318.00 m²		☐ Lines	☐	☑ City water

3.2 Building Conditions

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

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

3.3 Power Source

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

Quality of PLN source		
Fluctuations	110 V ± 10 %	
Availability of power per day	24 Hours	
Power interruption /month	4 Times	
Total interpt hours /month	8 Hours	
Max. interpt. hours at once	2 Hours	

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

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

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself or to District Navigation Office
Examples of major failure	Damaged by lightening
Sufficiency of spares	Not sufficient

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

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	SUNGAI SELAN		
CLASS	4th-B	NO.	61

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	SSB equipment has been return to Pangkal Balam doe to the District Autonomy and up now there isn't any policy on that.
Remarks	Ofice building owned by Kanpel

INVENTORY

Site Name: Sungai Selan

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		MF/HF System							
1		SSB Transceiver	FS-1200		Furuno			Stored at P. Balam	Good
2		**Tower and Antenna System**							
2-1		Tower and Mast							
1		Antenna Pole (2)	Steel Pipe						
2-2		Antenna System							
1		Whip Antenna							
3		**Power Supply Equipment**							
3-1		Power Supply Adaptor							
1		Power Supply Unit							

Palembang

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Sungai Selan

SGS-061-(1/1)

Call Sign : Mobile Service :
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fixed Service				
1	5,381,5	J3E	100		
2					
3					
4					
5					
6					
7					
8					
9					
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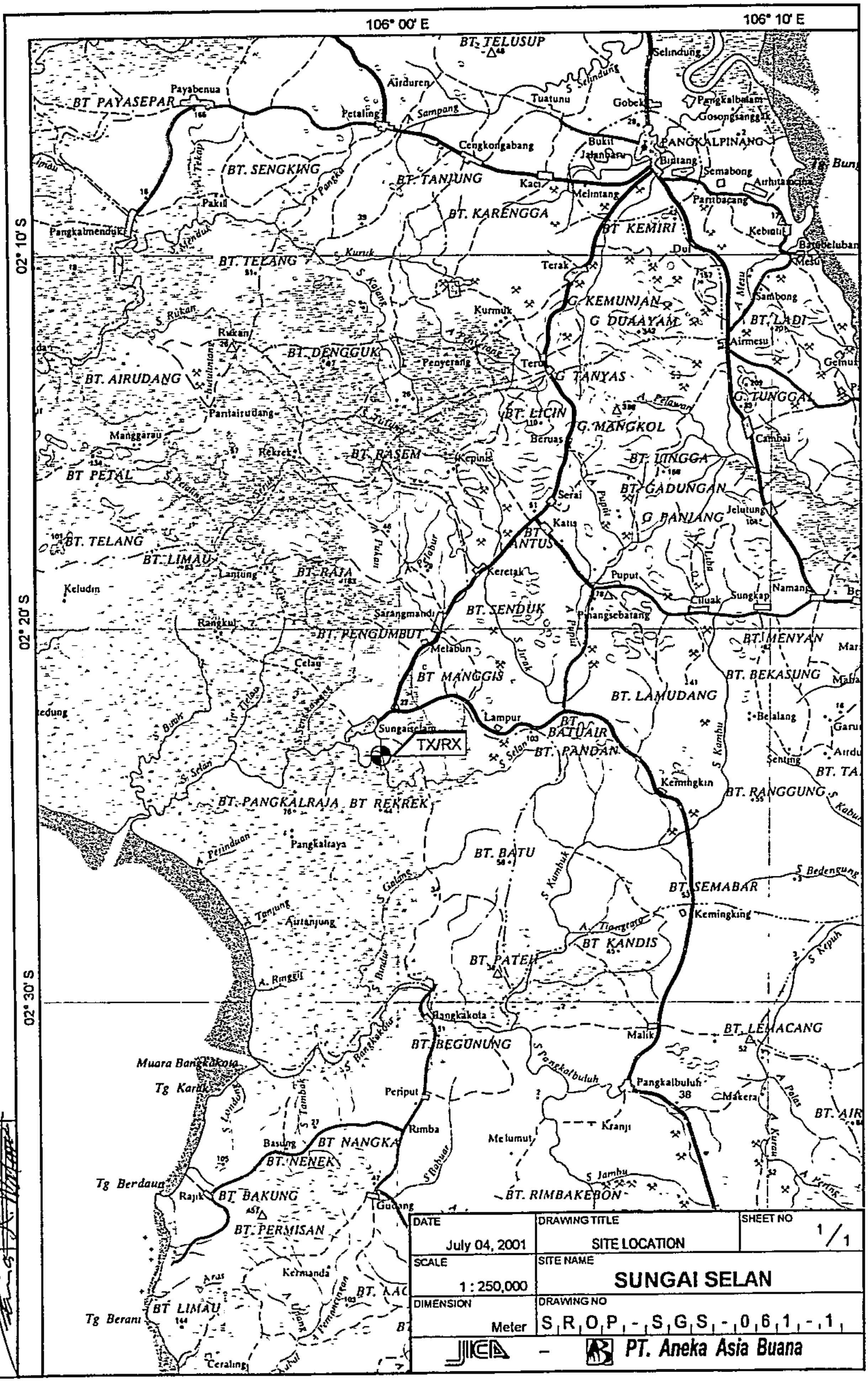

DATE	DRAWING TITLE	SHEET NO
July 04, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 250,000	SUNGAI SELAN	
DIMENSION	DRAWING NO	
Meter	SROP - SGS - 061 - 1	

JICA – PT. Aneka Asia Buana

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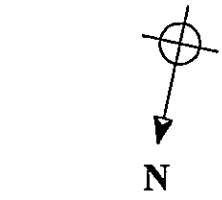
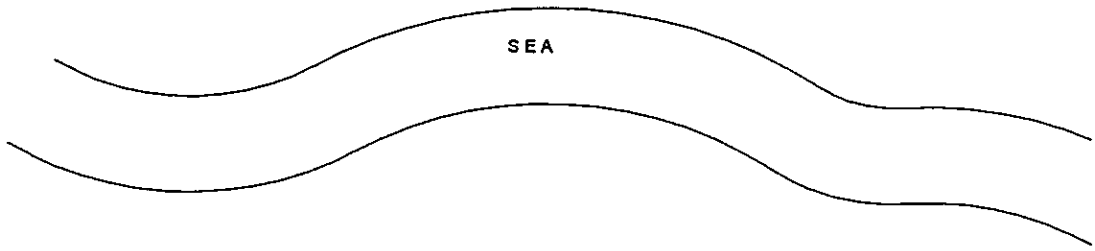
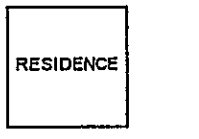
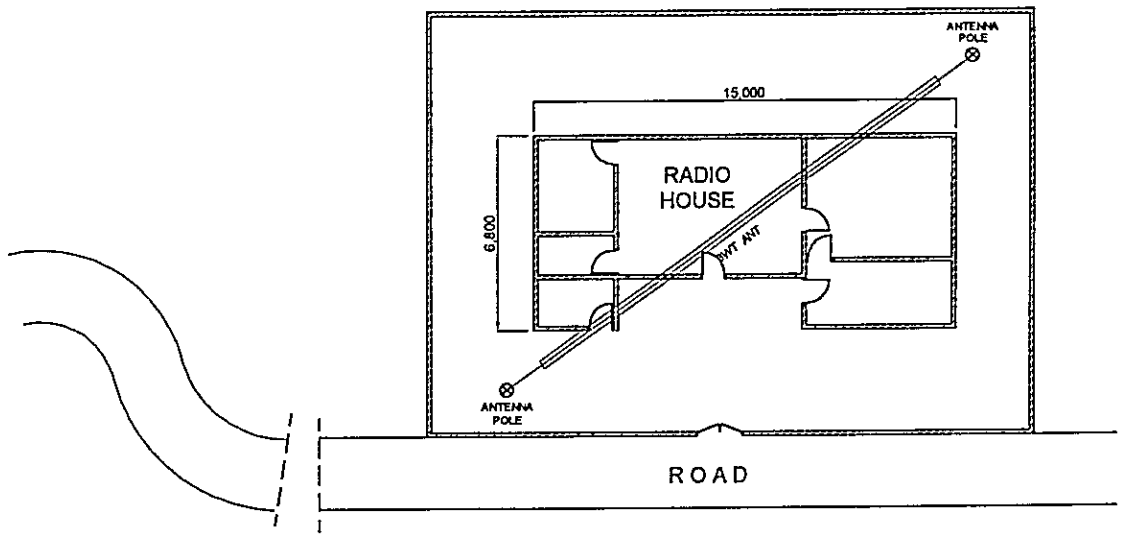
DRAWN BY AAB







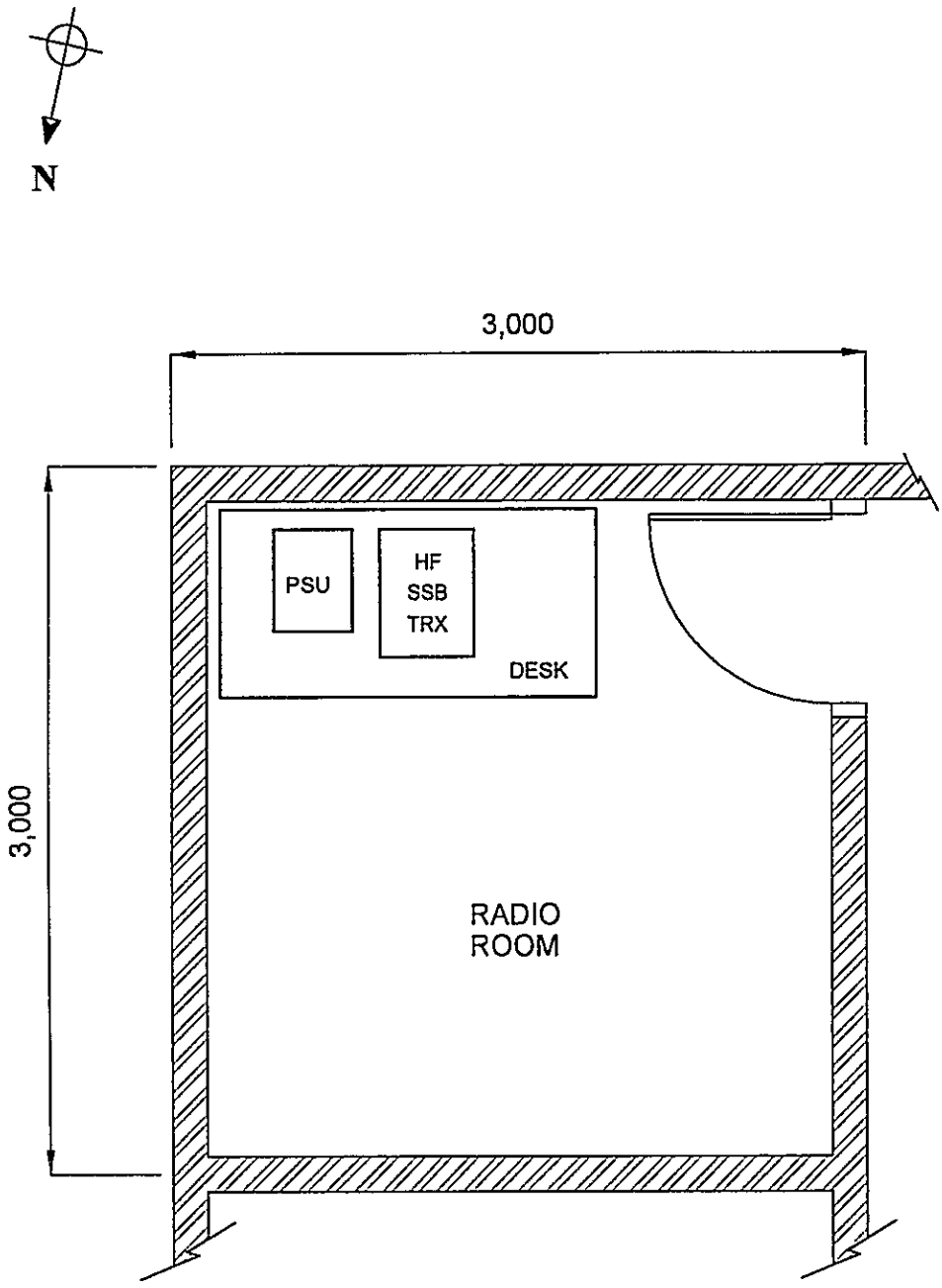


LEGEND

ANT : ANTENNA
WT : WIRE T TYPE

DATE: Sept 11, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 250	SITE NAME: SUNGAI SELAN	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,S,G,S,-,0,6,1,-,2,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB | APPROVED BY JICA



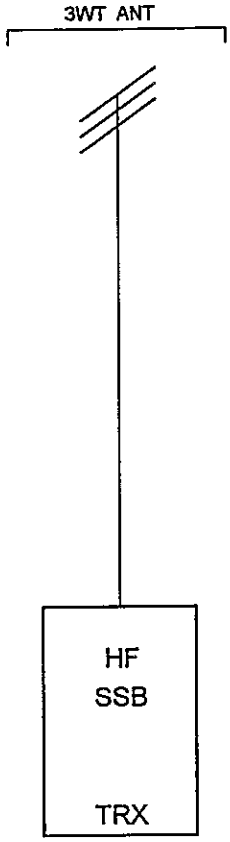
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 21, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 30	SITE NAME: SUNGAI SELAN	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,S,G,S,-,0,6,1,-,3,	
JICA –	PT. Aneka Asia Buana	



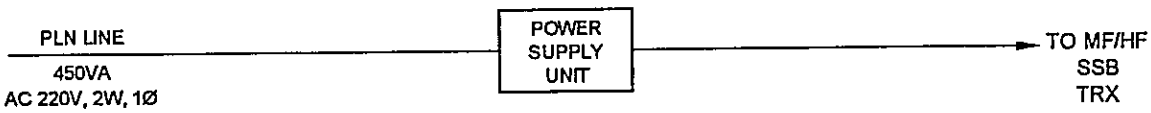
LEGEND

ANT : ANTENNA
HF : HIGH FREQUENCY
MF : MEDIUM FREQUENCY
TRX : TRANSCEIVER (ING)
WT : WIRE T TYPE

APPROVED BY JICA :

DRAWN BY AAB

DATE: Sept 21, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SUNGAI SELAN	
DIMENSION: Milimeter	DRAWING NO.: SROP-SGS-061-5	
JICA – PT. Aneka Asia Buana		



APPROVED BY JICA

DRAWN BY AAB

LEGEND

AC	. ALTERNATING CURRENT
HF	HIGH FREQUENCY
MF	: MEDIUM FREQUENCY
TRX	: TRANSCEIVER
V	: VOLT
W	: WIRE
Ø	· PHASE

DATE: Sept 21, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SUNGAI SELAN	
DIMENSION: Milimeter	DRAWING NO.: SRO P - SGS - 0 6 1 - 6	
JICA – PT. Aneka Asia Buana		

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

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

4TH-B CLASS COAST STATION
BLINYU
(COAST STATION No. 62)

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

4th-B Class Coast Station
Blinyu
(Coast Station No. 62)

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	BLINYU		
CLASS	4th-B	NO.	62

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Tanjung Gudang, Blinyu			105° 45′ 56″ E	01° 38′ 54″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Pkl. Pnq	[Taking time: 1.30 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Car	to Blinyu	[Taking time: 8.00 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	80.60 M		Telephone Lines	☑	☐ Feeder Cable Way
Land area	294.00 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	Tile

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

3.3 Power Source

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

Quality of PLN source	
Fluctuations	220 V ± 10 %
Availability of power per day	12 Hours
Power interruption /month	3 Times
Total interpt. hours /month	50 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	Liter
Main tank	k Liter

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself or to District Navigation office
Examples of major failure	Damaged by lightening
Sufficiency of spares	Not sufficient

Records of damages		Environmental Conditions	Good	Bad
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☑ Lightning	SSB/FS 1200	☑	☐	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	BLINYU		
CLASS	4th-B	NO.	62

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	SSB equipment has been return to Pangkal Balam doe to the District Autonomy and up now there isn't any policy on that. Request to activate Radio Communication, because its needed for passenger ship service.
Remarks	Office building owned by Kanpel

INVENTORY

Site Name: Blinyu

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		MF/HF System							
1		SSB Transceiver	FS-1200		Furuno	1983		Stored at P. Balam	Damaged
2		**Tower and Antenna System**							
2-1		Tower and Mast							
1		Antenna Pole (2)	Steel Pipe						Good
2-2		Antenna System							
1		Whip Antenna							
3		**Power Supply Equipment**							
3-1		Power Supply Adaptor							
1		Power Supply Unit							

STATUS OF TROUBLES

SITE NAME : BLINYU **BLU-62-(1/1)**

Item / Equipment	SSB / FS 1200		
Manufacturer	Japan		
Manufacturer in year	1983		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☑ Others		
General Comment for Maintenance:			

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Blinyu

BLU-062-(1/1)

Call Sign : Mobile Service
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Fixed Service				
1	5 381,5	J3E	100		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
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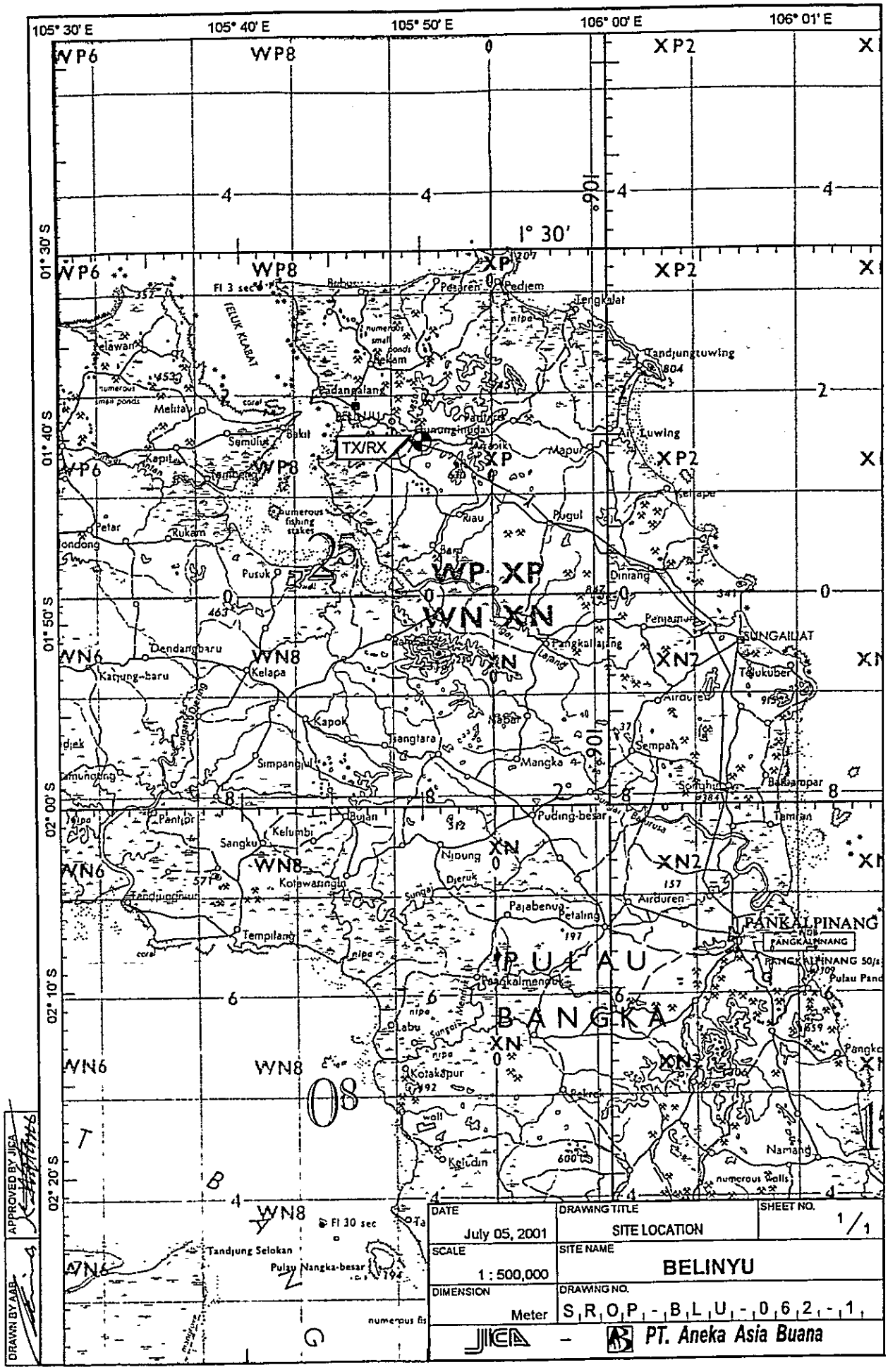
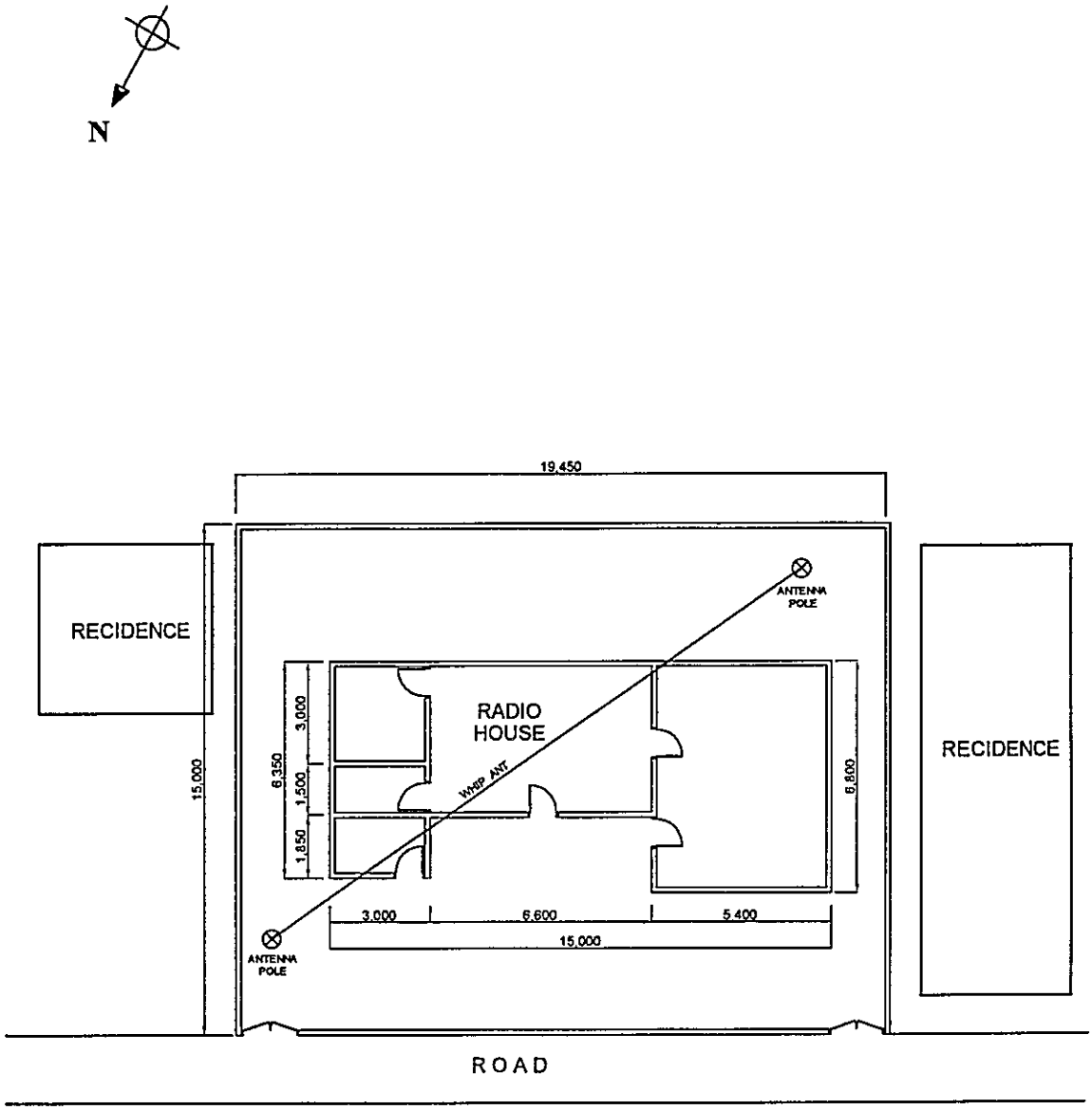
27					



DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 500,000	SITE NAME: BELINYU	
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,B,L,U,-,0,6,2,-,1,	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

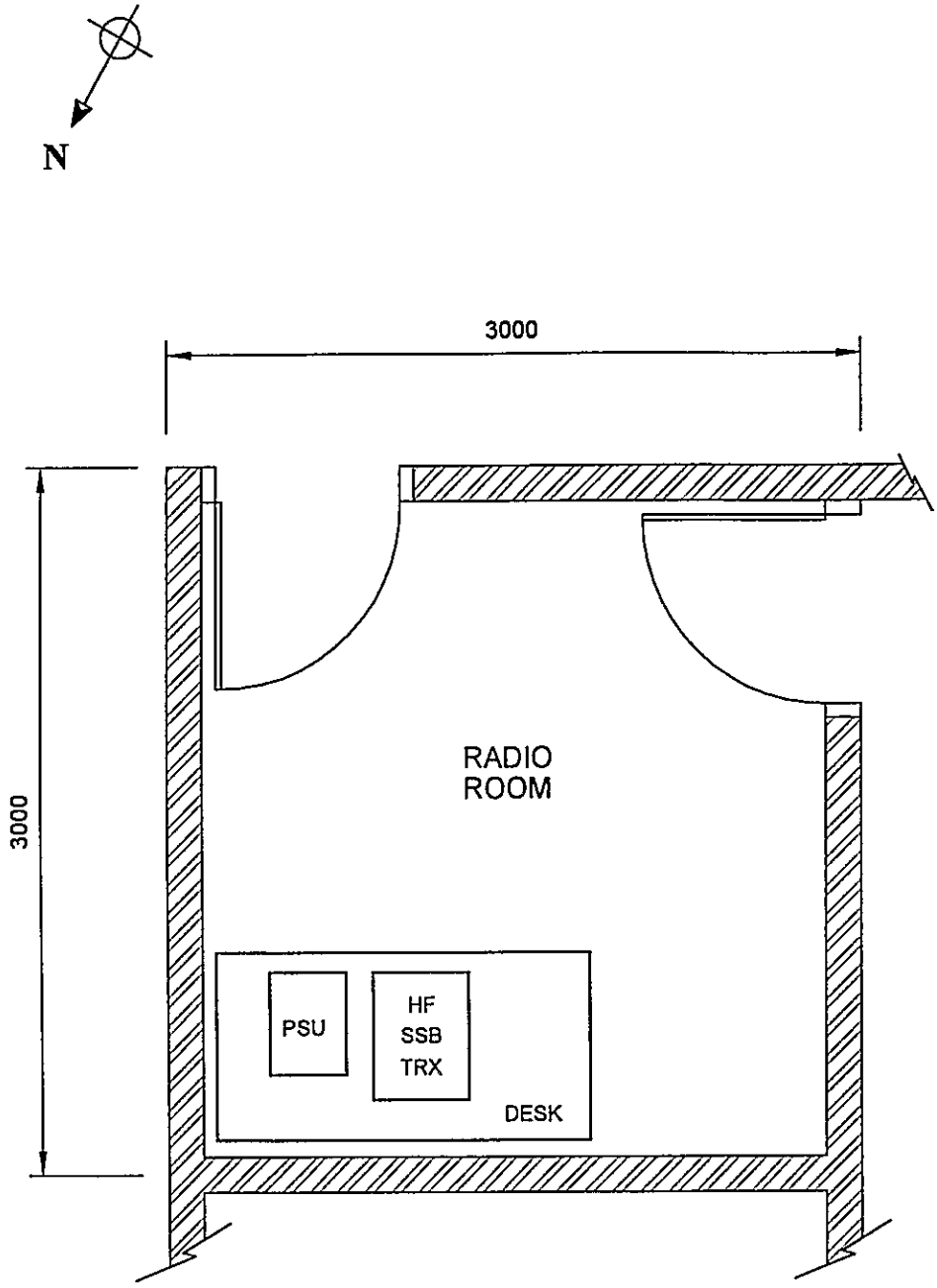
DRAWN BY AAB



DRAWN BY AAB

APPROVED BY JICA

DATE: Sept 21, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: **BLINYU**	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,L,U,-,0,6,2,-,2,	
JICA –	PT. Aneka Asia Buana	



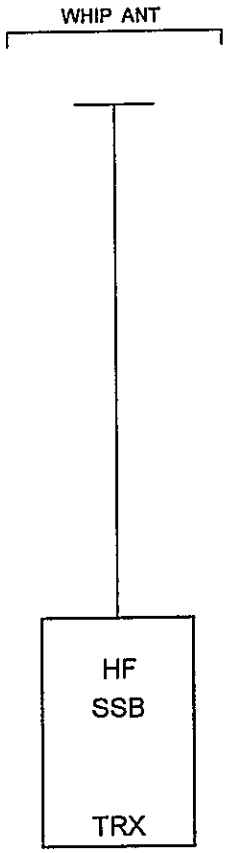
LEGEND

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

DATE: Sept 21, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 30	SITE NAME: BLINYU	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,L,U,-,0,6,2,-,3,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



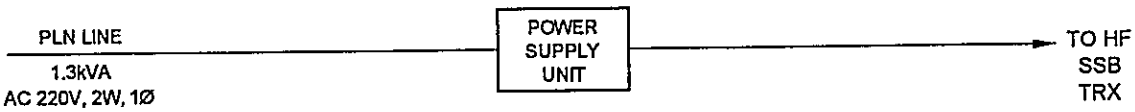
LEGEND

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

APPROVED BY JICA :

DRAWN BY AAB

DATE: Sept 21, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BLINYU	
DIMENSION: Milimeter	DRAWING NO: SROP-BLU-062-5	
JICA –	PT. Aneka Asia Buana	



LEGEND

AC	ALTERNATING CURRENT
HF	· HIGH FREQUENCY
MF	. MEDIUM FREQUENCY
TRX	. TRANSCEIVER
V	. VOLT
W	· WIRE
Ø	: PHASE

DATE: Sept 21, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BLINYU	
DIMENSION: Milimeter	DRAWING NO: SROP-BLU-062-6	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB