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

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

SUB DISTRICT NAVIGATION AREA (14)
PONTIANAK

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

Sub District Navigation Area (14)
Pontianak

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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

Sub District Navigation Office (Area-14)
Pontianak

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF DISNAV

SITE	PONTIANAK		
CLASS	Sub	NO.	14

1. LOCATION

Address	Tel.	Fax	Longitude	Latitude
Jl. Rahadi Uesman No. 2, Pontianak	0561-732764	0561-736659	109° 20′ 18″ E	00° 01′ 36″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Pontianak [Taking time: 1:00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car to Pontianak [Taking time: 0.5 hr]	☑ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF DISNAV OFFICE

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐ ☑ Antenna
☐ Hill-top	☑ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☑ Towers (Masts)
☐ Basin	☐ Clay		☑ Ground Subsidence	☐ ☑ Grounding system
☐ Valley	☐ Sandy			☐ ☑ Lightning system
Altitude	m		Telephone Lines	☐ ☑ Feeder Cable Way
Land area	322.5 m²		☑ 2 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	Mortar
Wall finish	Mortar
Flooring	Wooden

Room Area (m²)	
Operation room	322.5
E / G room	
Remark	

3.3 Power Source

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

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

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

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

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

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

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

Institutional and Human Statuses				
1	Budget	☐ Sufficient	☐ Reasonable	☐ Insufficient
2	Spares	☐ Enough	☐ Reasonable	☐ Not enough
3	Measuring eqpt./tools	☐ Enough	☐ Reasonable	☐ Not enough
4	Number of Operator	☐ Enough	☐ Reasonable	☐ Not enough
5	Number of Technician	☐ Enough	☐ Reasonable	☐ Not enough

5. PERSONNEL FORMATIONS

Chief	1
Operator (skilled)	0
Technician (skilled)	0
Administrator	20
Total	21

Training Record

Course	Class	Location	Period	Trainee
Jenjang	SPAMA	Jakarta	1995	1
Jenjang	Adum	Pontianak	2000	1
Acountant	A	Pontianak	2001	2

SUMMARY OF DISNAV

SITE	PONTIANAK		
CLASS	Sub	NO.	14

6	Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable					
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	
Remarks	

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

3rd Class Coast Station
Pontianak
(Coast Station No. 128)

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	PONTIANAK		
CLASS	3rd	NO.	128

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Gusti Hamzah No. 1	0561-734985	0561-734985	109° 17′ 18″ E	00° 01′ 36″ N

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Pontianak [Taking time: 1.00 hr.]	☑ Highway	☐ Heavy	☑ Hotel	1,000,000
By Car to Location [Taking time: 0.30 hr.]	☐ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☑ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☑ Swampy	☐ Rocky	☐ Rain Leakage	☑ ☐ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☐ Sandy			☐ ☑ Lightning system
Altitude	0.50 M		**Telephone Lines**	☑ ☐ Feeder Cable Way
Land area	3,000 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	Mortar
Wall finish	Wooden
Flooring	Wooden
Room Area (m²)	
Operation room	64.00
E / G room	59.30
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	3	3
Wire	4	4
kVA	6.6	10

Quality of PLN source	
Fluctuations	20 V ± 10 %
Availability of power per day	24 Hours
Power interruption /month	8 Times
Total interpt. hours /month	24 Hours
Max. interpt. hours at once	8 Hours

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

Capacity of fuel for engine	
Day tank	580 Liter
Main tank	1 k Liter

E/G Stand-by System

☑ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow	If the spare parts available, done by himself
Examples of major failure	Power Amplifier and Driver damaged
Sufficiency of spares	Not available

Records of damages		Environmental Conditions	Good	Bad	
☐ Heavy rainfall					
☐ Storm			☑	☐	External noises
☑ Lightning	Radio Consule		☑	☐	Air pollution
☑ Other calamity	PSU damaged by lightening				

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)	8 (3)	0
Technician (skilled)	3 (1)	0
Administrator	1	
Total	13	

Training Record

Course	Class	Location	Period	Trainee
Pre	II	Jakarta		3
Operator	ORU	Jakarta		2
TTP	II	Jakarta		1

SUMMARY OF COAST STATION

SITE	PONTIANAK		
CLASS	3rd	NO.	128

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	9	15			1991	768		46	1996	875		28
1997	12	20	8		1992	871		41	1997	920		15
1998	16	28	16		1993	808		48	1998	883		17
1999	11	85	21		1994	861		39	1999	910		9
2000	7	32	18		1995	956		36	2000	623		5

7. COMMENTS

Suggestion	With the high technological expansion of Telecommunication equipment, including of Maritime Telecommunication; We request for upgrading telecommunication equipment in accordance with technological developing Not only monitoring for unregistered user Maritime Frequency; It is better registration and sunction for trespass is coming from Ditjen Hubla. At this time trespass for using Maritime Frequency is very high
Remarks	

INVENTORY

Site Name: Pontianak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		Transmitter	NSD-7AA	BA-60194	JRC	1972			Damaged
2		Transmitter	NSD-7AA	BA-60195	JRC	1972			Damaged
3		Transmitter	NSD-1125	5277	JRC	1968			Damaged
4		HF Transceiver	JSB-50	BS-12246	JRC	1972			Damaged
1-2		**Operator Console/Desk/Rack**							
1-2-1		**MF TG Desk**							
1		Control Desk	NCE-939B	BP-20679	JRC	1972			Good
2		Control Desk	NCE-939B	BP-20680	JRC	1972			Damaged
3		Switch Board	NCB-429B	BP-10219	JRC	1972			Good
1-2-2		**MF Console**							
		Operator Console	RH-003	004	Sailor	1997	F-TA-193: PH4		Good
1-2-2-1		MF Transmitter							
1		400W MF Transmitter	T1127L	504127	Sailor	1996	F-TA-193: PH3		Damaged
2		400W MF Transmitter	T1127L	504128	Sailor	1996	F-TA-193: PH3		Damaged
3		Exciter	S 1301L	504140	Sailor	1996	F-TA-193: PH3		Good
4		Exciter	S 1301L	504143	Sailor	1996	F-TA-193: PH3		Good
5		Tuner	H1201	504160	Sailor	1996	F-TA-193: PH3		Good
6		Tuner	H1201	504155	Sailor	1996	F-TA-193: PH3		Good
7		Power Supply	N1401	504154	Sailor	1996	F-TA-193: PH3		Good
8		Power Supply	N1401	504145	Sailor	1996	F-TA-193: PH3		Good
1-2-3		**MF/HF Console**							
1-2-3-1		MF/HF Console	RH-16-3	006	Sailor	1996	F-TA-193: PH3		Good
1-2-3-2		MF / HF Equipment							
1		600W MF/HF Transmitter	T2131	517359	Sailor	1996	F-TA-193: PH3		Good
2		600W MF/HF Transmitter	T2131	514885	Sailor	1996	F-TA-193: PH3		Good
3		AC Power Supply	N2171	520473	Sailor	1996	F-TA-193. PH3		Damaged
4		AC Power Supply	N2171	517376	Sailor	1996	F-TA-193: PH3		Damaged
5		Antenna Coupler	AT 2112	522615	Sailor	1996	F-TA-193: PH3		Good
6		Antenna Coupler	AT 2112	522616	Sailor	1996	F-TA-193: PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
7		CW Unit	H2185	512147	Sailor	1996	F-TA-193: PH3		Damaged
8		CW Unit	H2185	514376	Sailor	1996	F-TA-193: PH3		Good
1-3-3		All Wave Receiver							
1		Control Unit	RE2100	516651	Sailor	1996	F-TA-193: PH3		Good
2		Control Unit	RE2100	521645	Sailor	1996	F-TA-193: PH3		Good
3		Duplex Receiver	R2121T	511893	Sailor	1996	F-TA-193: PH3		Good
4		Duplex Receiver	R2120T	522132	Sailor	1996	F-TA-193: PH3		Good
5		Loudspeaker	H2054		Sailor	1996	F-TA-193: PH3		Good
1-3-4		Spot Receiver							
1		MF/HF DSC W/K RX	RM2150	523154	Sailor	1996	F-TA-193: PH3		Good
2		Power Supply	N2165	511762	Sailor	1996	F-TA-193: PH3		Good
1-3-5		Terminal Unit (DSC VHF/HF)							
1		DSC System	TT-6200A		Sailor	1996	F-TA-193: PH3		Good
2		LAN	TT - 101064		Sailor	1996	F-TA-193: PH3		Good
3		LAN I/O	TT - 101065		Sailor	1996	F-TA-193: PH3		Good
4		CPU	TT - 101051		Sailor	1996	F-TA-193: PH3		Good
5		CPU I/O	TT - 10123		Sailor	1996	F-TA-193: PH3		Good
6		PARALEL	TT - 101190		Sailor	1996	F-TA-193: PH3		Good
7		PARALEL I/O	TT - 101217		Sailor	1996	F-TA-193: PH3		Good
8		VHF MODEM	TT - 102239		Sailor	1996	F-TA-193: PH3		Good
9		HF MODEM	TT - 1022337		Sailor	1996	F-TA-193: PH3		Good
10		MODEM I/O	TT - 102238		Sailor	1996	F-TA-193: PH3		Good
11		ALARM I/O	TT - 101242		Sailor	1996	F-TA-193: PH3		Good
12		POWER SUPPLY	TT - 101122		Sailor	1996	F-TA-193: PH3		Good
13		POWER INPUT	TT - 101241		Sailor	1996	F-TA-193: PH3		Good
1-3-6		DSC Operation Position Terminal /PC	TT-3634A						
		Compaq Proline 466			Sailor	1996	F-TA-193: PH3		Good
		Compaq Monitor 140		9401589	Sailor	1996	F-TA-193: PH3		Good
		Printer (H-1252A)	TT-1608C	5CAP3193250K	Sailor	1996	F-TA-193: PH3		Good
		Monitor Display	TT-3602B	9401589	Sailor	1996	F-TA-193. PH3		Good
		DSC Alarm	TT-1542B		Sailor	1996	F-TA-193: PH3		Good
1-3-7		Signal Control Panel							
		Audio/Digital Matrix	MTX-1616	134	Sailor	1996	F-TA-193. PH3		Good
		Keyer	KK-1	365	Sailor	1996	F-TA-193: PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
		Loudspeaker (2)	H2054		Sailor	1996	F-TA-193: PH3		Good
1-3-8		Telephone Repeater (Phone Patch)							
		Radio/Tel I/F Unit	RTU - 282	126	Sailor	1996	F-TA-193. PH3		Good
1-3-9		ARQ Equipment							
		Radiotelex Modem	TT-1585E	1	Sailor	1996	F-TA-193: PH3		Good
		ARQ Key Board	TT-1601 A	1	Sailor	1996	F-TA-193: PH3		Good
		Printer (H1252A)	TT1680C	5CAP3193250I	Sailor	1996	F-TA-193: PH3		Good
		Telex Alarm	TT-1542B	1	Sailor	1996	F-TA-193: PH3		Good
1-3-10		**Receiver**							
1		MF/HF Receiver	NRD-15J	BR-12538	JRC	1972			Damaged
2		MF/HF Receiver	NRD-15J	BR-12539	JRC	1972			Damaged
3		MF/HF Receiver	FRG-8800	5D-050413	Yaesu	1985			Good
4		MF/HF Receiver	FRG-8800	9D-320061	Yaesu	1985			Good
5		Standard Signal Receiver	NRD-125	BR-41489	JRC	1987			Damaged
1-4		**VHF System**							
1-4-1		Operation Console	RH-16-1	006	Sailor	1996	F-TA-193: PH3		Good
1-4-2		Multichannel VHF Tranceiver							
1		50W VHF Tranceiver	RT 2048	523688	Sailor	1996	F-TA-193: PH3		Good
2		50W VHF Tranceiver	RT 2048	523736	Sailor	1996	F-TA-193: PH3		Good
3		50W VHF Tranceiver	RT 2048	523711	Sailor	1996	F-TA-193: PH3		Good
4		50W VHF Tranceiver	RT 2048	523683	Sailor	1996	F-TA-193: PH3		Good
5		RF Linear Power Amplifier	A2080BE-H	566	Sailor	1996	F-TA-193: PH3		Good
6		RF Linear Power Amplifier	A2080BE-H	272	Sailor	1996	F-TA-193: PH3		Good
7		RF Linear Power Amplifier	A2080BE-H	263	Sailor	1996	F-TA-193: PH3		Good
8		RF Linear Power Amplifier	A2080BE-H	256	Sailor	1996	F-TA-193: PH3		Good
9		Duplex Filter		237198	Sailor	1996	F-TA-193: PH3		Good
10		Duplex Filter		237206	Sailor	1996	F-TA-193: PH3		Good
11		CH-70 VHF T/R			Sailor	1996	F-TA-193: PH3		Good
12		VHF T/R	RT2048	523698	Sailor	1996	F-TA-193: PH3		Good
13		High Low I/F Unit (2)			Sailor	1996	F-TA-193: PH3		Good
14		RF Power Amplifier	A2080BE-H	563	Sailor	1996	F-TA-193· PH3		Good
15		AC Power Supply	N1639	N16305	Sailor	1996	F-TA-193: PH3		Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
16		DC Power Supply	N420	N42005	Sailor	1996	F-TA-193: PH3		Good
17		AC Power Supply	PSF-1	TWR/12770/4(	Sailor	1996	F-TA-193: PH3		Good
1-4-3		Terminal Equipment (DSC VHF/HF)							
		Audio/Digital Matrix	MTX-1616	134	Sailor	1996	F-TA-193: PH3		Good
1-4-4		Telephone Repeater							
		Radio/Tel I/F Unit	RTU-280	182	Sailor	1996	F-TA-193: PH3		Good
1-4-5		VHF Transceiver							
1		VHF Radio Telephone	FM-400H	247624	Furuno	1988			Good
2		VHF Radio Telephone	JHV-227YA	BH-16884	JRC	1989			Good
9		Telephone Repeater							
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
		TX Station							
1		18mHx3 Self Supporting	Triangle			1976			Good
2		Antenna Supporting Pole 3x				1976			Good
3		30mH Self Supporting Structure	AT30SS	-	Sailor	1996	F-TA-193. PH3		Good
4		Lightning Protector	-	-	-	1996	F-TA-193: PH3		Good
5		Grounding	-	-	-	1996	F-TA-193. PH3		Good
2-2		**Antenna System**							
		TX Station							
1		3WT Type Antenna (2)				1976			Good
2		Inv. "L" Type Antenna (1)				1976			Damaged
3		Single Doublet Antenna (2)				1976			Good
4		Inverted L Antenna (2)	HF7	-	-	1996	F-TA-193: PH3		Good
5		VHF Antenna (3)	VHF 3	-	-	1996	F-TA-193: PH3		Good
2-3		**Antenna Selector**							
1		Antenna Coupler	XW-49	BP 73290	JRC	1972			Good
2		Antenna Coupler	XW-49	BP 73291	JRC	1972			Good
3		Antenna Charger	AW-244	BP 80618	JRC	1972			Good
		Antenna Distributor	AAD10/A-J1-6C	NS007005	Sailor	1996	F-TA-193· PH3		Good

INVENTORY

Site Name: Pontianak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		Control Panel (AMF)	PL95-79		Delphi	1996			Damaged
3-2		**Step-Up Transformer**							
1		Transformer	SIK-1	4158	Tokyo	1973			Good
3-3		**UPS**							
1		AVR 5 kVA	NBZ-295A	BP 80648	JRC	1972			Good
		AVR 7.5 kVA	PL95-7D	9505	Sailor	1996			Damaged
2		Accumulator							
		a. 2x12V/70AH	-	-	Yuasa	-			Good
		b. 2x12V/100AH	-	-	GS	-			Good
		c. 4x6V/45AH	-	-	GS	-			Good
3		Accu Charger							
		a. 110V input/2x24V output	-	408	Philips	-			Good
		b. 220V input/1x24V output	-	321	Viking	-			Good
		c. 110/220V input/2x24V output	-	-	Toyo	-			Good
3-4		**Engine Generator**							
1		Engine 2 PK	TS-155C	C-2060K	Yanmar	1972			Good
2		Engine 2 PK	TS-155C	C-2061K	Yanmar	1972			Good
3		Generator 7.5 kVA	73C016Z	7368161	Osaka	1972			Good
4		Generator 7.5 kVA	73C016Z	7368162	Osaka	1972			Good
		10 kVA E/G, 380V,3P, 4W		-	-	1996	F-TA-193: PH3		Good
		Engine	EG 10 RA	543890	-	1996	F-TA-193: PH3		Good
		Generator	V-1505E	CO51634/10	-	1996	F-TA-193: PH3		Good
		E/G Panel	BC1-164-D	9512	-	1996	F-TA-193: PH3		Good
3		Starting, Fuel, Exhaust System	-	-	-	1996	F-TA-193: PH3		Good
4		Fuel Control Unit	-	-	-	1996	F-TA-193: PH3		Good
5		100 L Fuel Day Tank	-	-	-	1996	F-TA-193: PH3		Good
6		1000 L Fuel Storage Tank	-	No.12	-	1996	F-TA-193· PH3		Good
4		**Measuring Equipment**							
1		Transdipper	-	20913	Delica	1972			Good
2		Oscilloscope	-	2236	Tectronik	1987			Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		Oscilloscope	SS-5702	91540036	Matshusita	1972			Good
4		Signal Generator	SG-460	-	Trio	1985			Good
5		Frequency Counter	-	-	Trio	1985			Good
6		Multimeter	CY-505 II	-	Sanwa	1989			Good
7		Multimeter	Z-203	-	Hozan	1987			Good
8		Dummy Antenna	CM-721	-	Daiwa	1985			Good
9		Solder Gun	TQD-40	-	Gun	1989			Good
10		SWR Meter VHF/UHF	RS-670	-	Maldol	1987			Good
11		SWR Meter	RS-260	-	Maldol	1985			Good
12		Vacum Cleaner	HV-200	-	National	1972			Good
13		Vacum Cleaner	-	1101007	Hitachi	1972			Good
14		Electric Volt Meter	FM-9B	-	Toa	1972			Good
15		Slide Regulator	-	-	Matshusita	1972			Good
16		Circuit Tester	2H-313	3101	Yew	1972			Good
17		Analog Oscilloscope	PM3065	DM639012		1996	F-TA-193: PH3		Good
		- Plobe/Lead (x2)					F-TA-193: PH3		Good
		- Power Cable (x1)					F-TA-193: PH3		Good
		- Black Cover (x1)					F-TA-193: PH3		Good
		- Operation Manual					F-TA-193: PH3		Good
18		Fluke 87 Multimeter		64460306		1996	F-TA-193: PH3		Good
19		Fluke 87 Multimeter		64460307		1996	F-TA-193: PH3		Good
20		Fluke 87 Multimeter		64460308		1996	F-TA-193: PH3		Good
		- Test Lead Set (x1) (3)					F-TA-193: PH3		Good
		- Hoester House Yellow (x1) (3)					F-TA-193: PH3		Good
		- User Manual (x2) (6)					F-TA-193: PH3		Good
21		Insulation Tester	2406A	65WA1523		1996	F-TA-193: PH3		Good
		- Line Plobe (x1)					F-TA-193: PH3		Good
		- Earth Plobe (x1)					F-TA-193: PH3		Good
		- AA Batteries built-in (x8)					F-TA-193: PH3		Good
		- Carrying Case (x1)					F-TA-193: PH3		Good
		- Instruction Manual (x1)					F-TA-193: PH3		Good
22		RF Coaxial Load Resistor	8201	17085		1996	F-TA-193: PH3		Good
		RF Coaxial Load Resistor	8201	17090		1996	F-TA-193: PH3		Good
		- Connection Cable (x1) (2)					F-TA-193: PH3		Good

INVENTORY

Site Name: Pontianak

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		**Others**							
1		Air Conditioner 1 5 PK (2)	RA 221 T	168399	Hitachi	1972			Good
2		Air Conditioner 2 PK (2)	AH A184 E	4100138	Sharp	1994			Good
3		Air Conditioner 2 PK (2)	AH A184 E	4100628	Sharp	1994			Good
4		Services Engineers Kit	RS 541-365			1996	F-TA-193: PH3		Good
5		Telephone set with call timer (2)				1996	F-TA-193: PH3		Good
6		Headset (2)	DM 811			1996	F-TA-193· PH3		Good
7		Hand set (6)				1996	F-TA-193: PH3		Good
8		Desk Microphone (2)				1996	F-TA-193: PH3		Good
9		Morse Key				1996	F-TA-193: PH3		Good
10		Quartz Clock				1996	F-TA-193: PH3		Good
11		Service Engineer Kit				1996	F-TA-193: PH3		Good
12		Mouse				1996	F-TA-193: PH3		Good
13		Instr. Manual Comp. Compaq				1996	F-TA-193: PH3		Good
14		Chair				1996	F-TA-193: PH3		Good

STATUS OF TROUBLES

SITE NAME : PONTIANAK **PTK-128-(1/1)**

Item / Equipment	Radio Console Sailor Compaq / -		
Manufacturer	Denmark		
Manufacturer in year	1996		
Defective panel / unit	Transmitter, Transceiver, A.T, etc.		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☐ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Since damaged by lightening, on September 25, 2000 - up to now, there is no repairing or maintenance for Radio Console Sailor, caused by un-availability of spare part and budget.

Regarding that the above equipment is very important, especially for distress communication by Pontianak Coast Station; we request for immediacy repairing and for enough cost maintenance in the next year by budgetary

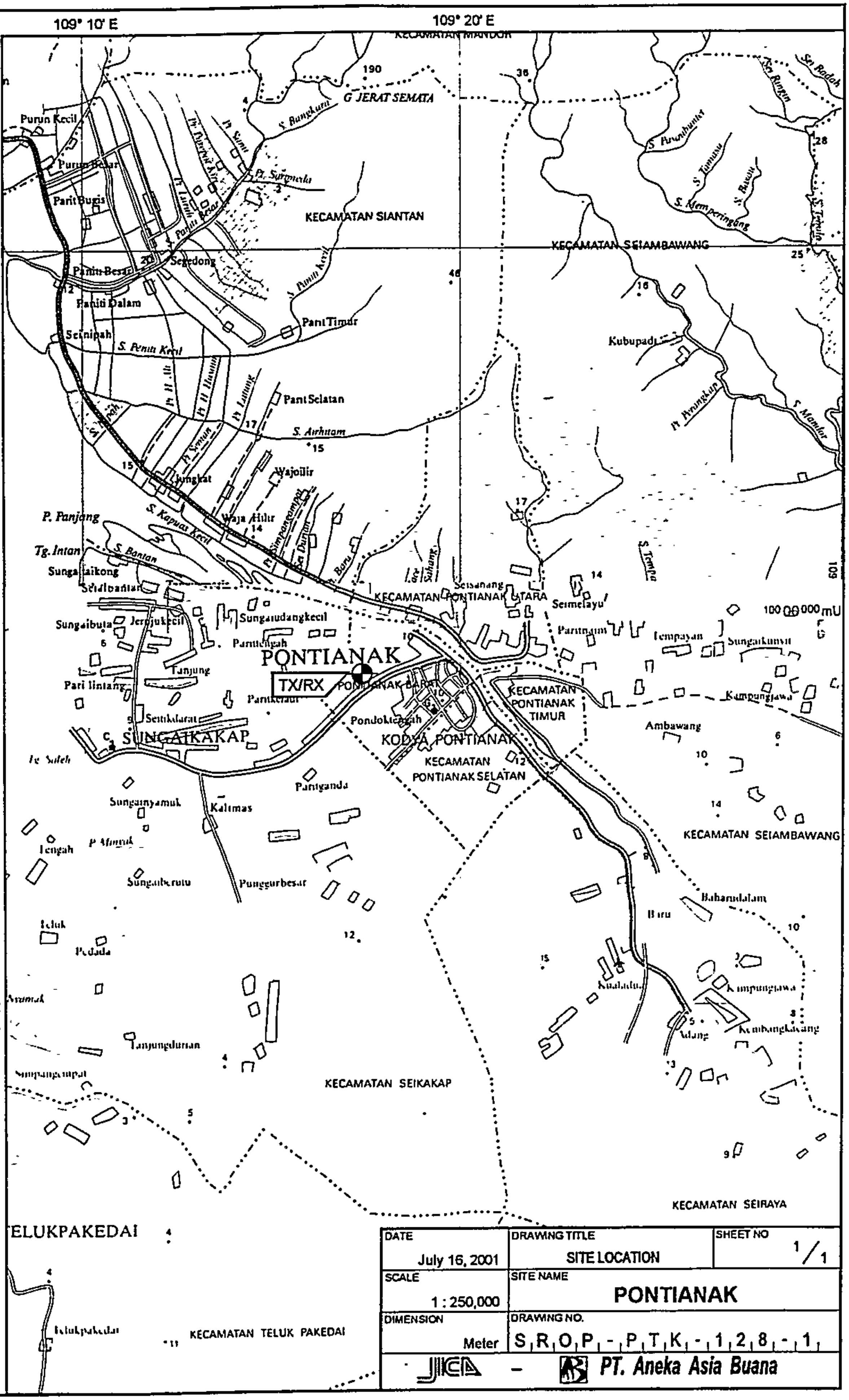
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Pontianak

PTK-128-(1/1)

Call Sign : Mobile Service : PKS
Fix Service : 8AF

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	500,0	A1A	600		
2	2 182,0	J3E	150		
3	6 215,0	J3E	150		
4	6 355,0	A1A	600		
5	6 513,0	J3E	150		
6	8 473,0	A1A	600		
7	8 764,0	J3E	150		
	NBDP Service				
8	8 376,5	F1B	600		
9	8 414,5	F1B	600		
10	8 417,0	F1B	600		
	DSC Service				
11	8 436,5	F1B	600		
12	2 187,5	J3E	600		
	VHF Service				
13	2.690,0	J3E	50		
14	6 215,0	J3E	50		
	Fix Service				
15	5 381,0	J3E	150		
16	8 110,0	J3E	150		
17					

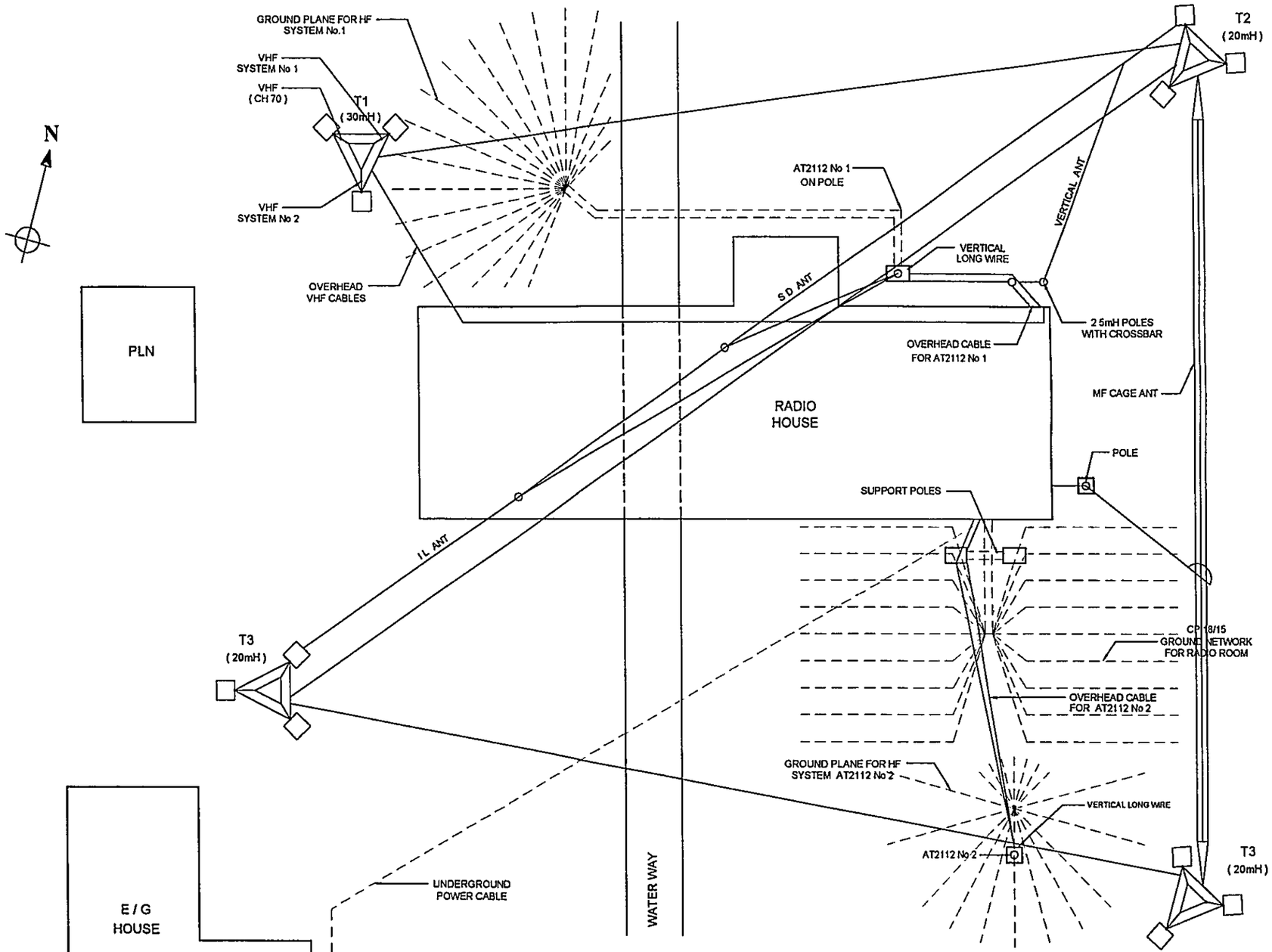


DATE	DRAWING TITLE	SHEET NO
July 16, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 250,000	PONTIANAK	
DIMENSION	DRAWING NO.	
Meter	S R O P - P T K - 1 2 8 - 1	

JICA - PT. Aneka Asia Buana

APPROVED BY JICA :

DRAWN BY AAB

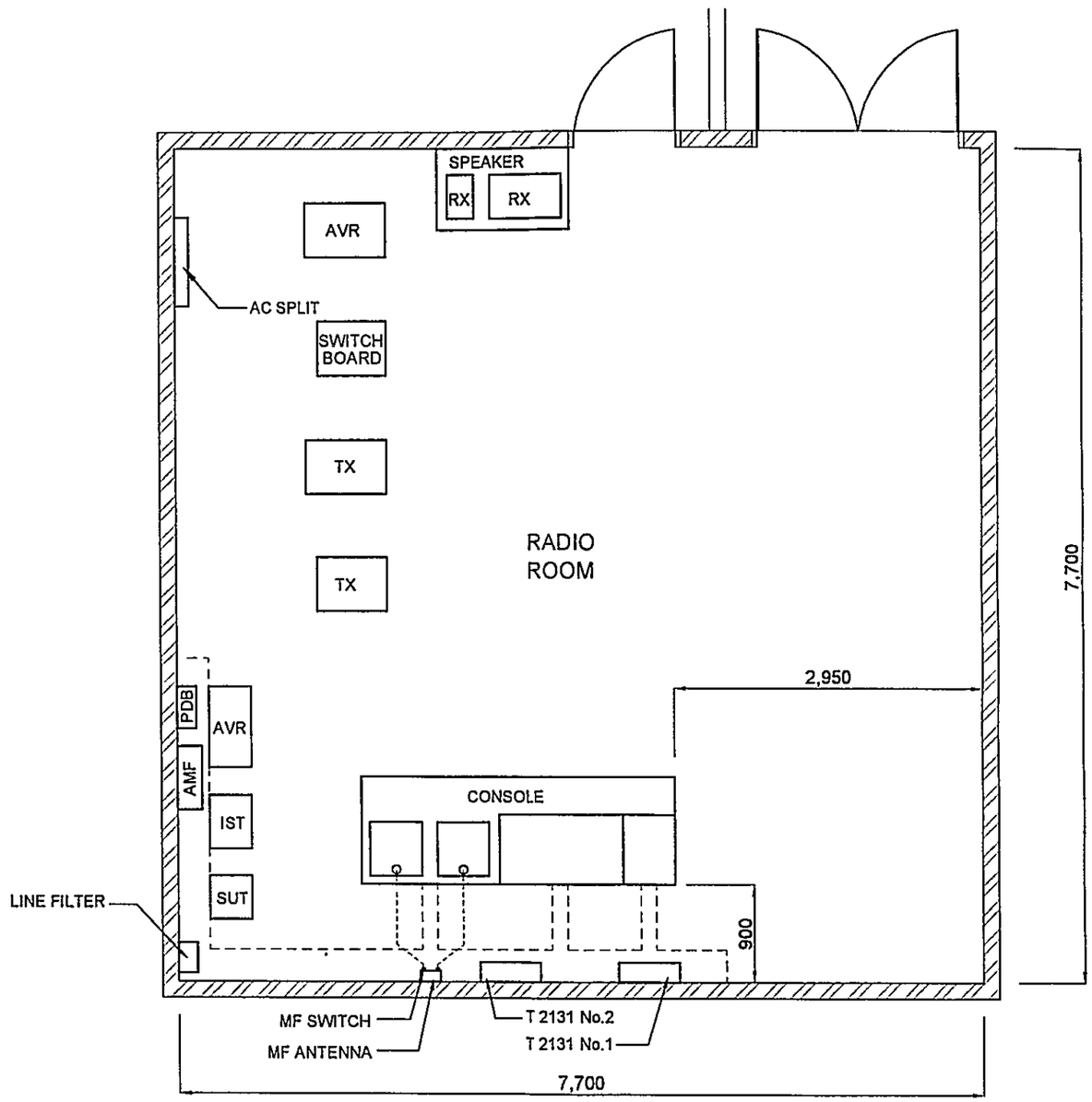


DRAWN BY AAB

APPROVED BY JICA:

DATE: July 03, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 75	SITE NAME: PONTIANAK	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,P,T,K,-,1,2,8,-,2,	

JICA – PT. Aneka Asia Buana



LEGEND

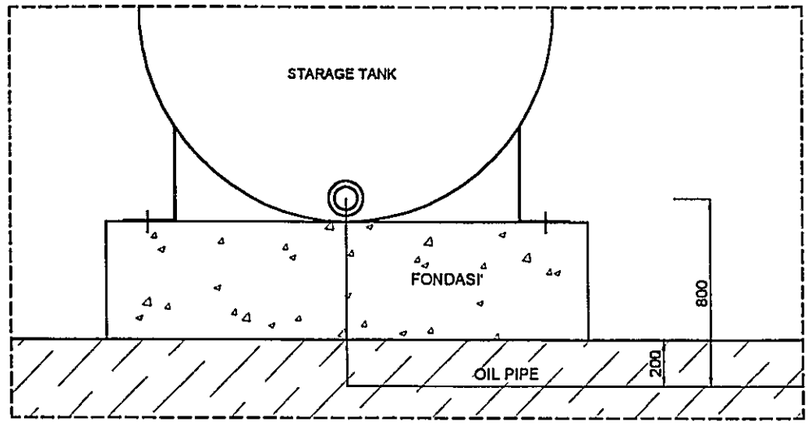
AVR	:	AUTOMATIC VOLTAGE REGULATOR
IST		ISOLATION TRANSFORMER
MF	:	MEDIUM FREQUENCY
PDB	:	POWER DISTRIBUTION BOARD
RX	.	RECEIVER (ING)
SUT	.	STEP - UP TRANSFORMER
TX		TRANSMITTER (ING)

DRAWN BY AAB

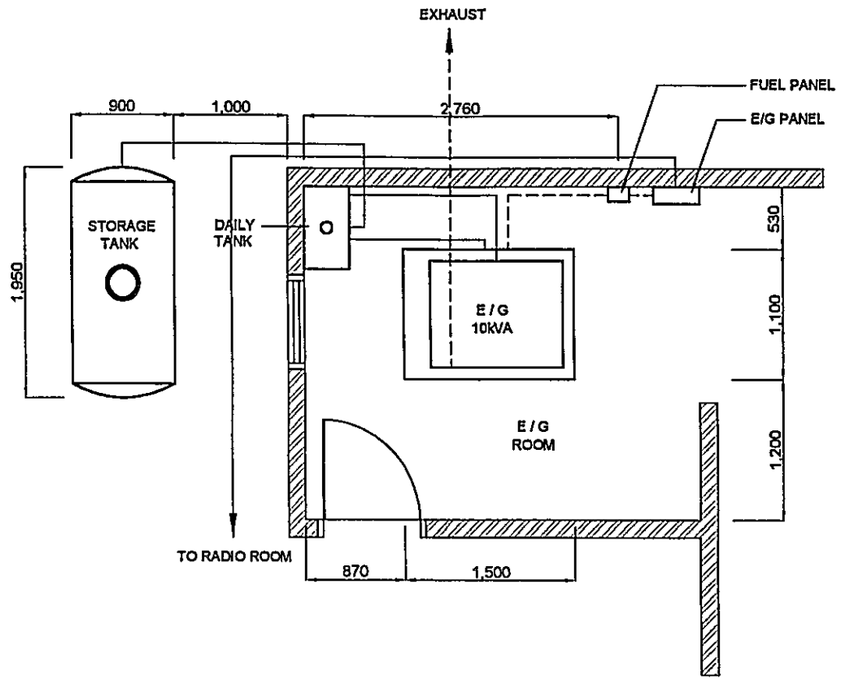
APPROVED BY JICA

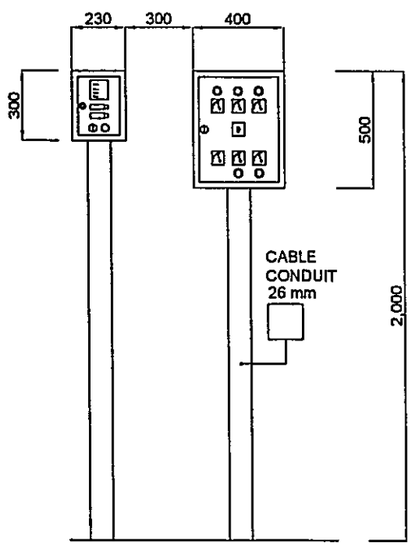
DATE: June 22, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: PONTIANAK	
DIMENSION: Millmeter	DRAWING NO: SROP-PTK-128-3	

JICA – PT. Aneka Asia Buana



DETAIL A (STORAGE TANK)





FRONT VIEW E/G PANEL

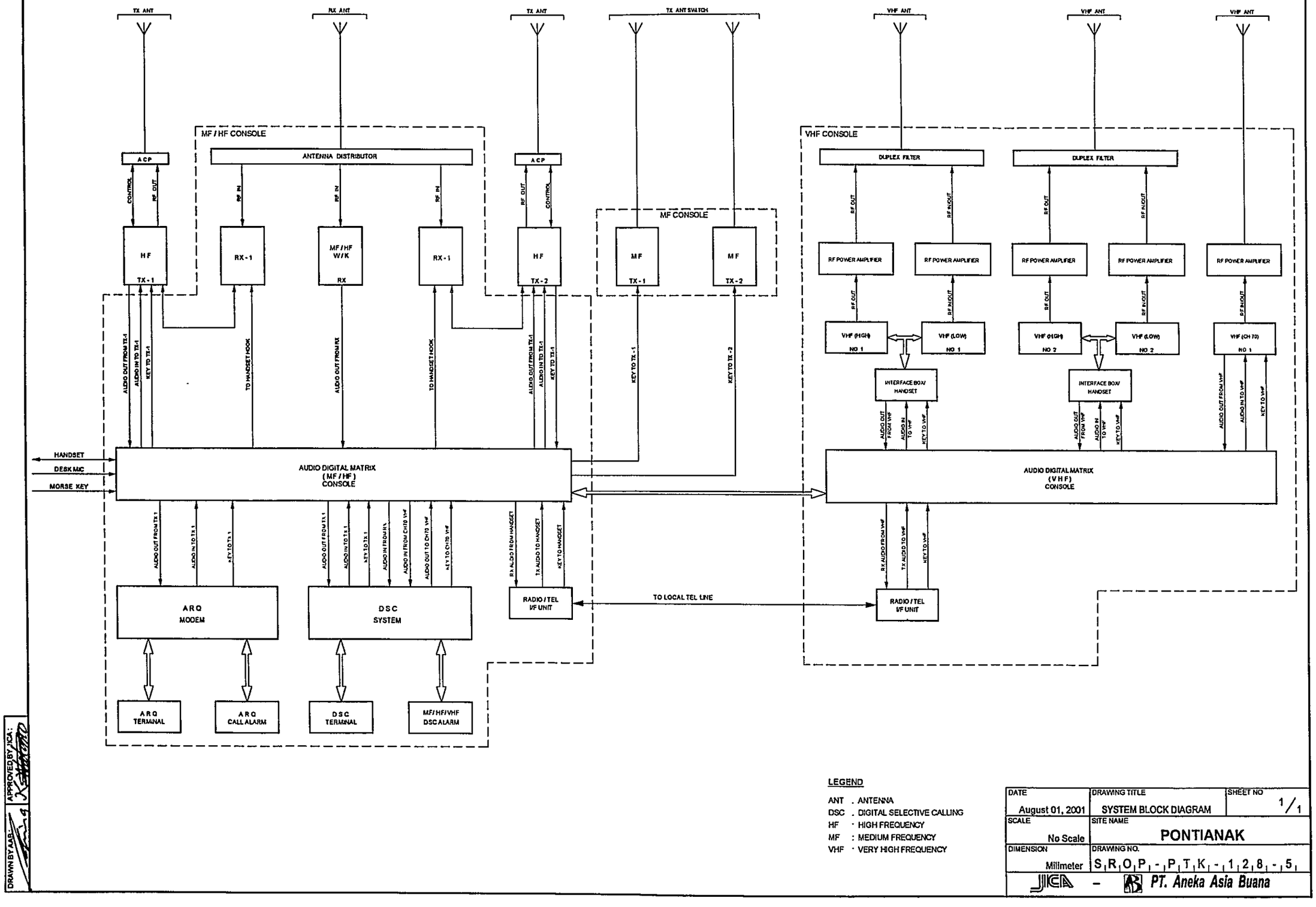
LEGEND

E/G : ENGINE GENERATOR
kVA . KILO VOLT AMPERE

DATE: July 03, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 25 / 1 : 50	SITE NAME: PONTIANAK	
DIMENSION: Milimeter	DRAWING NO.: SRO P-PTK-128-4	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA :

DRAWN BY AAB



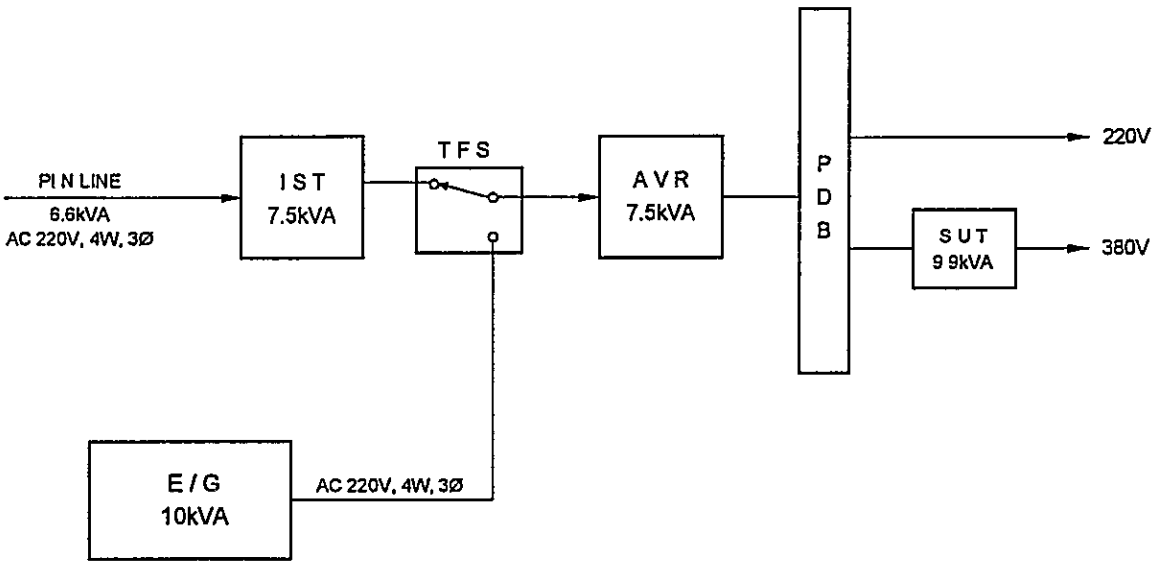
LEGEND

ANT . ANTENNA
DSC . DIGITAL SELECTIVE CALLING
HF . HIGH FREQUENCY
MF : MEDIUM FREQUENCY
VHF . VERY HIGH FREQUENCY

DRAWN BY AAB
APPROVED BY JICA:

DATE: August 01, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PONTIANAK	
DIMENSION: Millimeter	DRAWING NO.: SROP-PTK-1281-5	

JICA – PT. Aneka Asia Buana



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: August 01, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: PONTIANAK	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,P,T,K,-,1,2,8,-,6,	

JICA – PT. Aneka Asia Buana

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

4th-A Class Coast Station
Ketapang
(Coast Station No. 129)

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	KETAPANG		
CLASS	4th-A	NO.	129

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Gajah Mada No. 173	0534-31627		109° 57′ 24″ E	01° 48′ 44″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Pontianak [Taking time 1.00 hr.]	☑ Highway	☐ Heavy	☑ Hotel	55,000
By Car to Ketapang [Taking time: 2.00 hr.]	☐ Paved	☐ Medium	☐ Motel	
	☐ Unpaved road	☑ Light		
		☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☑ ☐ Towers (Masts)
☑ Basin	☑ Clay		☑ Ground Subsidence	☑ ☐ Grounding system
☐ Valley	☐ Sandy			☐ ☑ Lightning system
Altitude	0.75 M		Telephone Lines	☑ ☐ Feeder Cable Way
Land area	1,200 m²		☑ 1 Lines	☐ ☑ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Mortar
Wall finish	Mortar
Flooring	Mortar

Room Area (m²)	
Operation room	9.00
E / G room	20.00

Remark

3.3 Power Source

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

Quality of PLN source	
Fluctuations	20 V ± 10 %
Availability of power per day	24 Hours
Power interruption /month	4 Times
Total interpt. hours /month	12 Hours
Max. interpt. hours at once	3 Hours

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

Capacity of fuel for engine	
Day tank	50 Liter
Main tank	0.5 k Liter

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Done by himself
Examples of major failure	Damaged by lightening
Sufficiency of spares	Un-available

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

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

5. PERSONNEL FORMATIONS

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

Training Record				
Course	Class	Location	Period	Trainee
Operator	ORU	Jakarta	1995	

SUMMARY OF COAST STATION

SITE	KETAPANG		
CLASS	4th-A	NO	129

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		4			1991	36			1996	63		
1997		3			1992	48			1997	49		
1998		6			1993	54			1998	67		
1999		7			1994	58			1999	73		
2000		3			1995	69			2000	84		

7. COMMENTS

Suggestion	With the high technological expansion of telecommunication equipment, including of Maritime Telecommunication; We request for upgrading telecommunication equipment in accordance with technological developing Not only monitoring for un-registered user Maritime Frequency; It is better registration and sanction for trespass is coming from Ditjen Hubla At this time trespass for using Maritime Frequency is very high
Remarks	

INVENTORY

Site Name: Ketapang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF SSB Transceiver	M700	4662	ICOM	1994			Good
2		HF SSB Transceiver	M700	48557	ICOM	1995			Good
1-2		**VHF System**							
1		VHF Transceiver	IC-229-H	57510	ICOM	1994			Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		20mHx2 Antenna Tower				1994			Good
2		12mHx3 Antenna (Tower)				1995			Good
2-2		**Antenna System**							
1		HY Gain Antenna	V-2R			1994			Good
2-3		**Antenna Selector**							
1		Antenna Tuner	AT-120		ICOM	1994			Good
1		Antenna Matcher	MN-100		ICOM	1995			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply	AK-3030AY		DAKAI	1994			Good
2		Power Supply	TA-30A		G I	1994			Good
3		Accu Charger	M-240		GAMA	1994			Good
4		Accumulator	12V/200AH		GS	1994			Good
3-2		**Engine Generator**							
1		Engine 13.2 PK	S-195	S-54112517	China	1994			Good
2		Generator 3 kVA	ST-3-TH	B-857	China	1994			Good

INVENTORY

Site Name: Ketapang

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		**Measuring Equipment**							
1		Multi Meter	YX-360TRD		Sanwa	1994			Good
5		**Others**							
1		Air Conditioner 2PK	K-16265	40914929	Sanyo	1994			
2		Tool Kit	600 T 110		Japan	1995			Good
3		Solder Gun			Japan	1995			Good
4		Fan							
5		Key				1995			
6		Saw Stell				1995			Good

STATUS OF TROUBLES

SITE NAME : KETAPANG **KTP-129-(1/1)**

Item / Equipment	Communication Equipment and Antenna Tower / -		
Manufacturer	-		
Manufacturer in year	1994		
Defective panel / unit	Power Amplifier and Corrosion		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☑ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Telecommunication equipment damaged by lightening are as mentioned : 1 Unit HF Transceiver Icom M. 700 - 1 unit VHF Transceiver Icom IC-229 H - Antenna Tuner AT-120 - 2 Units Power Supply 40 Ampere - Telephone Unit - Installation etc.

For the time being for operational Coast Station activity is handle by emergency spare unit and Pontianak spare unit.

Only small unit that can be Maintenance/Repaired, they are as follows : 2 Units Power Supply - 1 Unit VHF Transceiver in accordance to the budget availability.

We request for sufficient budget allocation for maintenance of spare units in the next year

OPERATION SCHEDULE (FREQUENCIES)

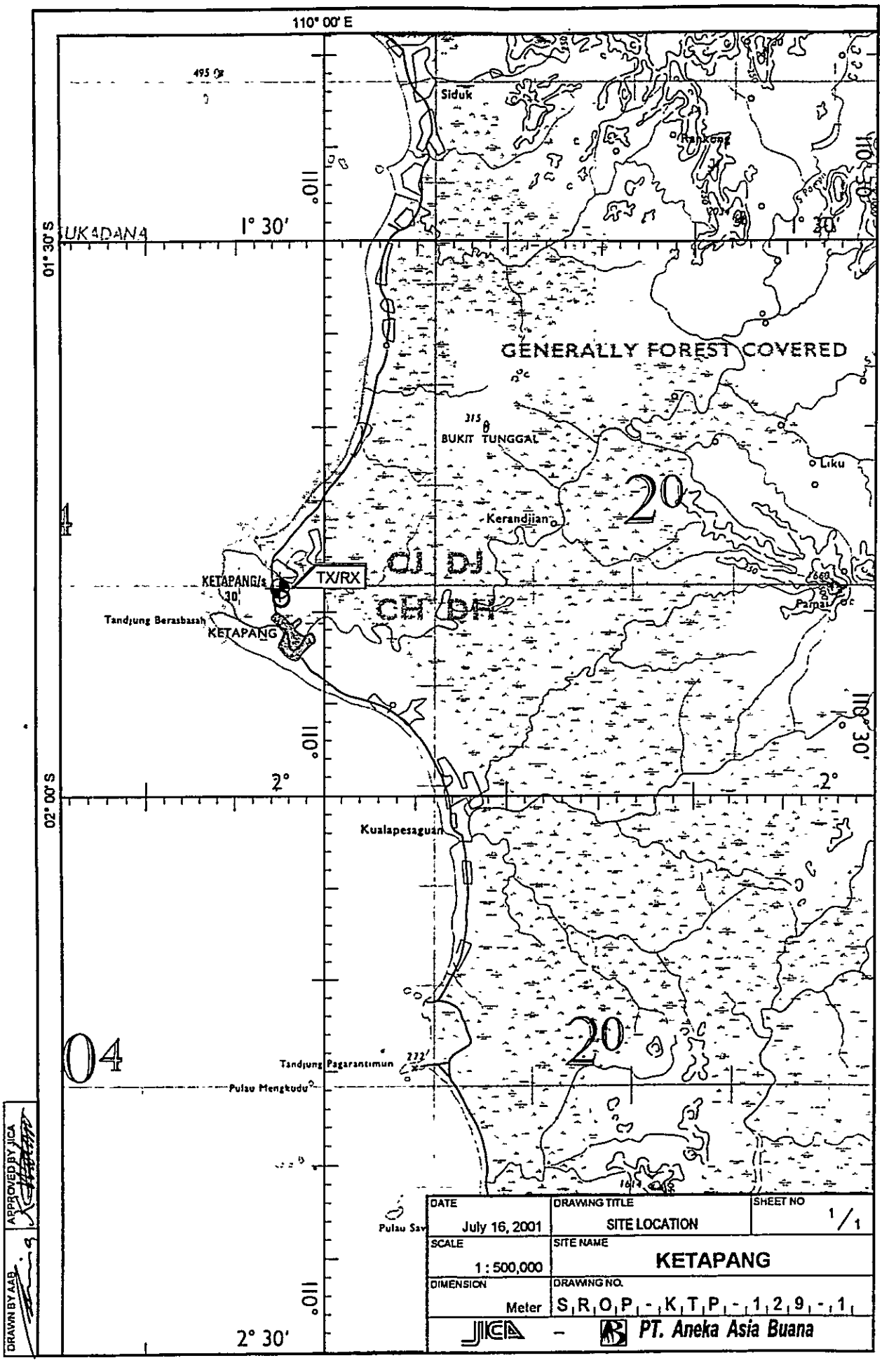
Site Name: Ketapang

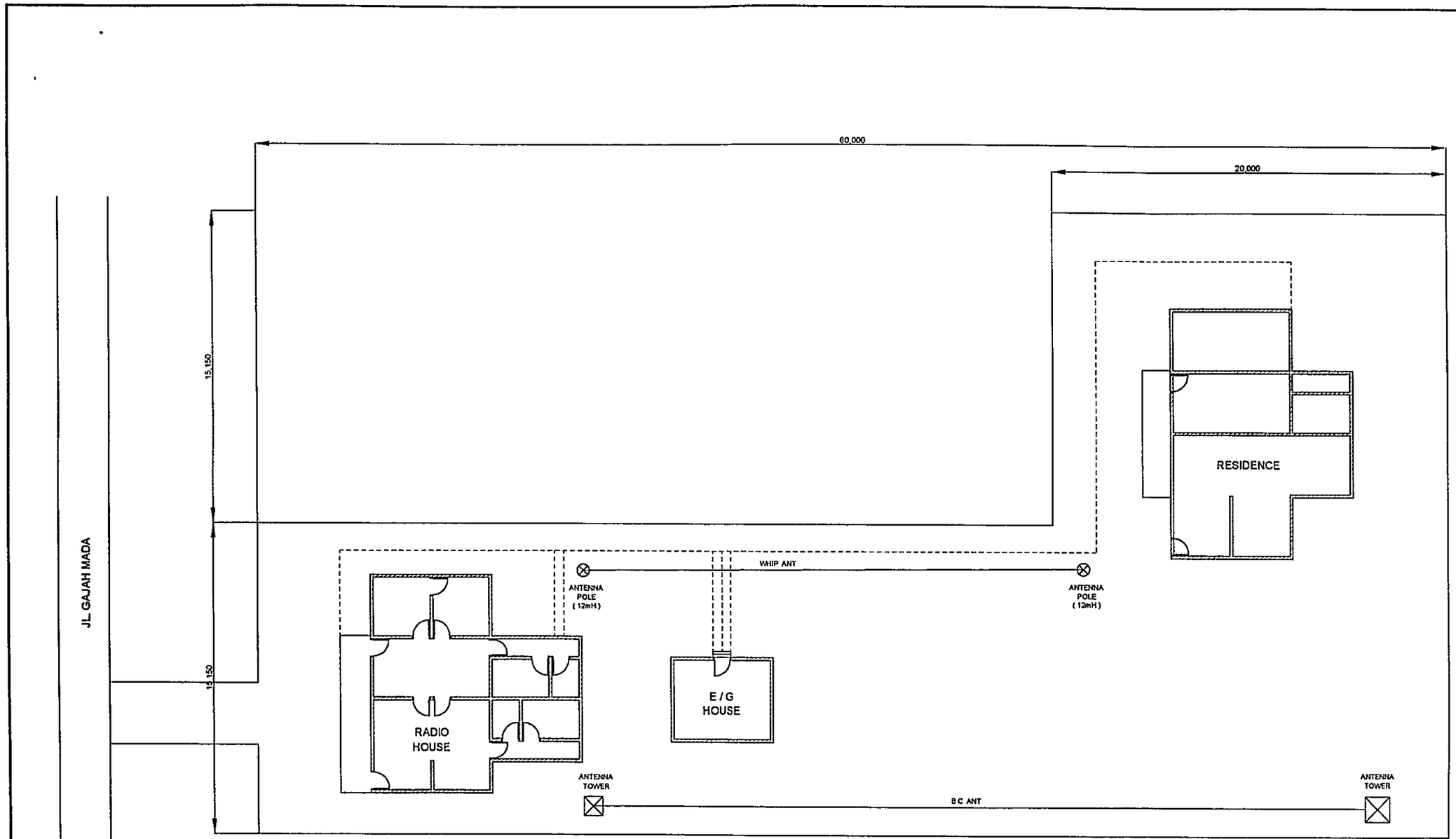
KTP-129-(1/1)

Call Sign : Mobile Service : PKS.9
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	3 180,0	J3E	100		
3	6 215,0	J3E	100		
4	6 224,0	J3E	100		
5	6 513,0	J3E	100		
	VHF Service				
6	Channel-16	G3E	40		
7	Channel-10	G3E	40		
	Fix Service				
8	5 381,0	J3E	100		
9	8 110,0	J3E	100		
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					

Opschedule-Ende


110° 00' E
01° 30' S
02° 00' S
1° 30'
2°
2° 30'
UKADANA
Siduk
Rankong
GENERALLY FOREST COVERED
BUKIT TUNGGAL
315
Liku
Kerandjian
KETAPANG/s
TX/RX
Tandjung Berasbasah
KETAPANG
Pamai
Kualapesaguan
Tandjung Pagarantimun
Pulau Mengkudu
Pulau Sav
20
04
DRAWN BY AAB
APPROVED BY JICA
DATE
July 16, 2001
DRAWING TITLE
SITE LOCATION
SHEET NO
1/1
SCALE
1 : 500,000
SITE NAME
KETAPANG
DIMENSION
Meter
DRAWING NO.
S R O P - K T P - 1 2 9 - 1
JICA - PT. Aneka Asia Buana

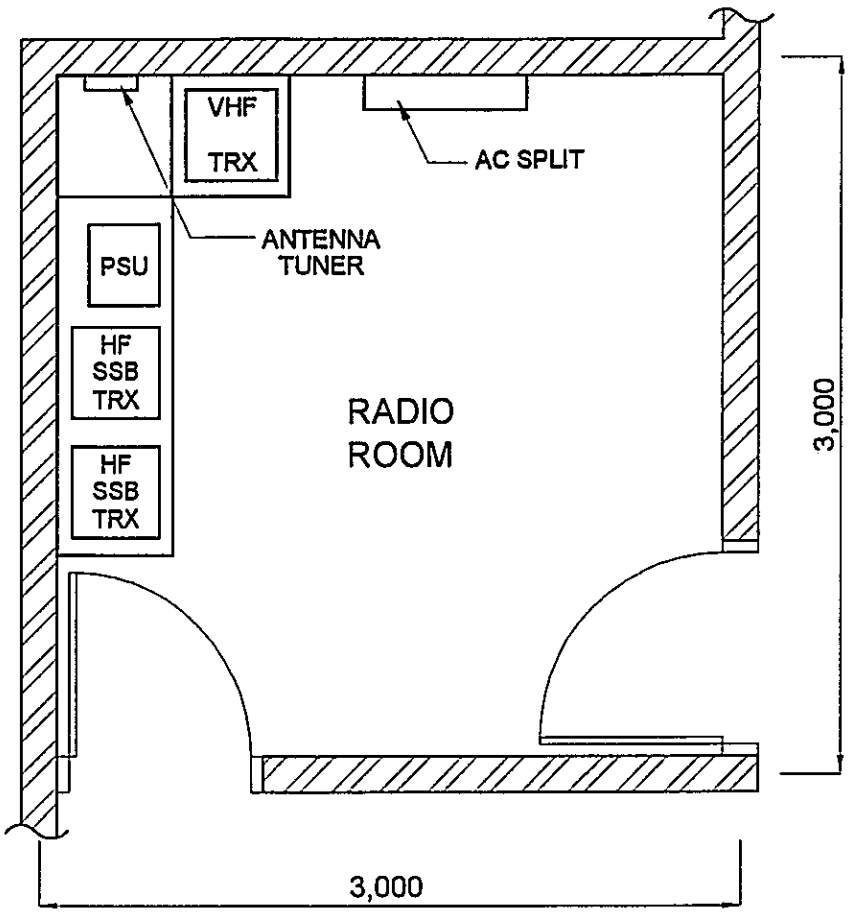


DRAWN BY AAB

APPROVED BY JICA

DATE: July 03, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 100	SITE NAME: KETAPANG	
DIMENSION: Milimeter	DRAWING NO: SROP-KTP-129-2	

JICA – PT. Aneka Asia Buana



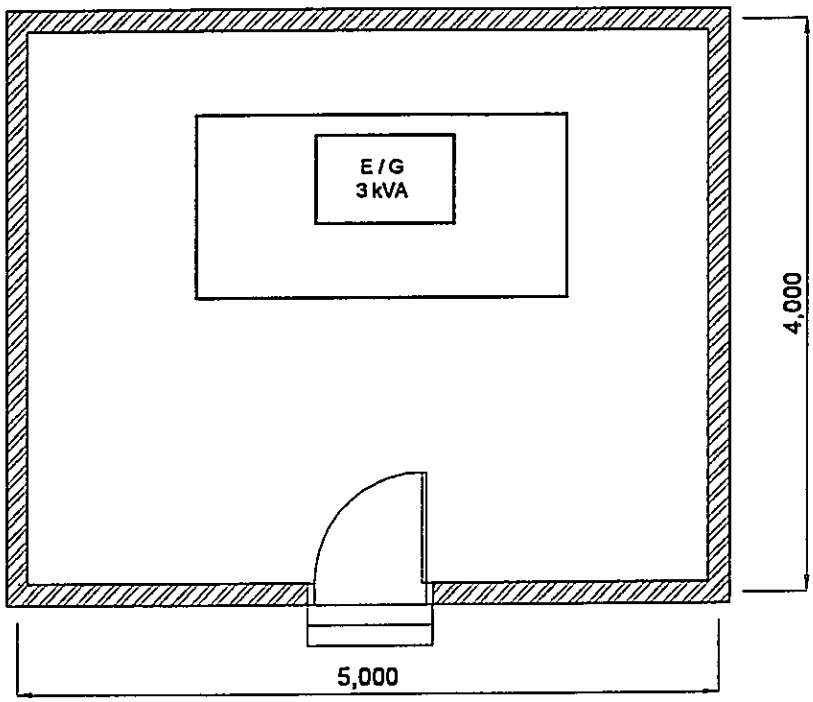
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 03, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 30	SITE NAME: KETAPANG	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,K,T,P,-,1,2,9,-,3,	
JICA –	PT. Aneka Asia Buana	



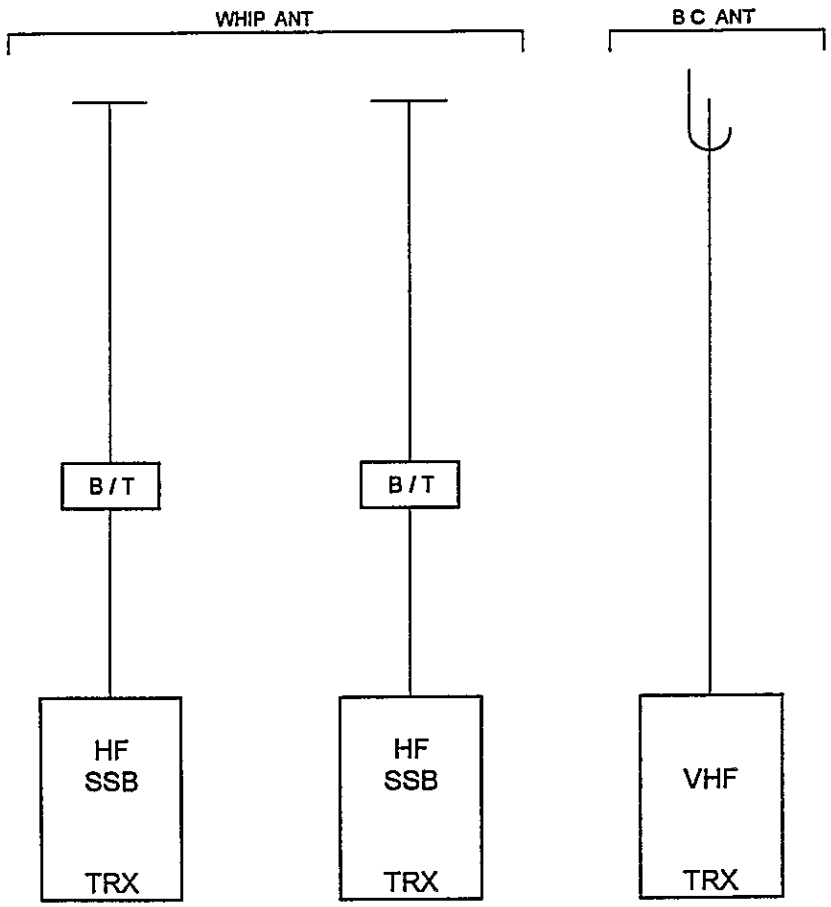
LEGEND

E/G ENGINE GENERATOR
kVA KILO VOLT AMPERE

DATE: July 03, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: KETAPANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,T,P,-,1,2,9,-,4,	
JICA - PT. Aneka Asia Buana		

APPROVED BY JICA:

DRAWN BY AAB



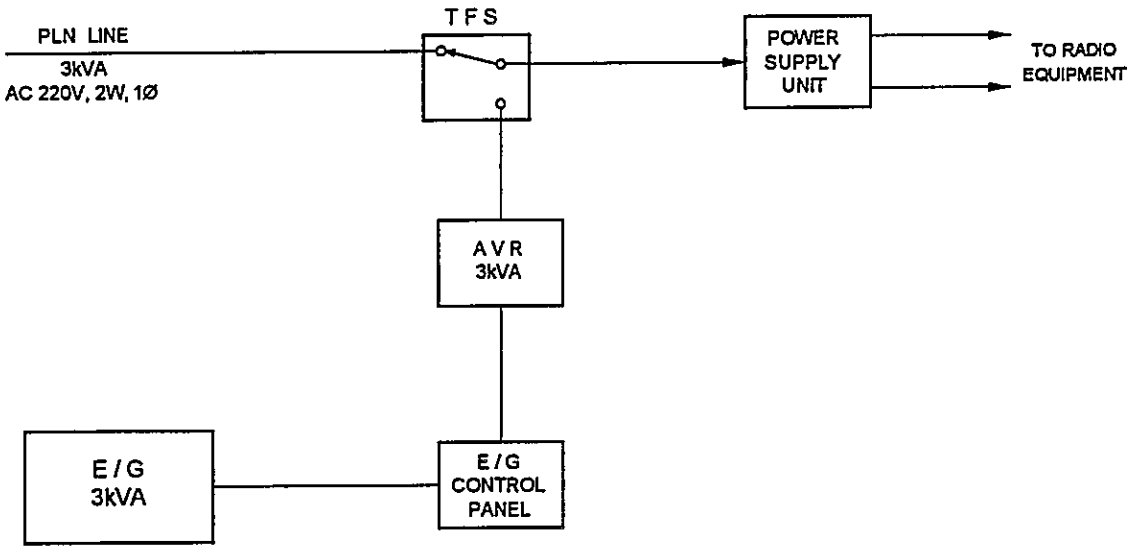
LEGEND

ANT : ANTENNA
AMU : ANTENNA MATCHING UNIT
BC : BROWN CARDIOID
B/T : BALUNS TRANS
HF : HIGH FREQUENCY
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

DATE: July 03, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: KETAPANG	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,T,P,-,1,2,9,-,5,	
JICA -	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



LEGEND

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

APPROVED BY JICA :

DRAWN BY AAB

DATE: August 01, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: KETAPANG	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,K,T,P,-,1,2,9,-,6,	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station
Sintete
(Coast Station No. 130)

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	SINTETE		
CLASS	4th-A	NO.	130

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan, Sintete	243260		109° 03′ 38″ E	01° 11′ 42″ N

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Pontianak [Taking time: 1.00 hr.]	☐ Highway	☐ Heavy	☑ Hotel	8,000
By Car to Location [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	0.75 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	Zinc
Type of ceiling	Asbestos
Type of wall	Concrete
Wall finish	Mortar
Flooring	Mortar

Room Area (m²)	
Operation room	17.00
E / G room	16.00

Remark

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	220 V
Phase	1	2
Wire	2	3
kVA	0.9	7.5/5

Quality of PLN source	
Fluctuations	200 V ± 90 %
Availability of power per day	24 Hours
Power interruption /month	7 Times
Total interpt. hours /month	21 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	50 Liter
Main tank	0.4 k Liter

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself
Examples of major failure	Damaged by lightening
Sufficiency of spares	Un-available

Records of damages	
☐ Heavy rainfall	
☐ Storm	
☑ Lightning	Transceiver
☐ 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)	1 ()	()
Technician (skilled)	()	()
Administrator		
Total	2	

Training Record

Course	Class	Location	Period	Trainee
Operator	ORU	Jakarta	1994	30

SUMMARY OF COAST STATION

SITE	SINTETE		
CLASS	4th-A	NO.	130

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	12			1996	15		
1997		1			1992	9			1997	20		
1998		2			1993	16			1998	25		
1999		6			1994	19			1999	24		
2000		2			1995	17			2000	27		

7. COMMENTS

Suggestion	With the high technological expansion of telecommunication equipment, including of Maritime; We request for upgrading telecommunication equipment in accordance with technological developing. Not only monitoring for un-registered usermaritime frequency; It is better registration and sanction for trespass is coming from Ditjen Hubla. At this time trespass for using maritime frequency is very high
Remarks	

INVENTORY

Site Name: Sintete

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		SSB Transceiver	FT-300C	250183	Yaesu				Damaged
2		All Band Transceiver	M700	49763	ICOM	1996			Good
3		SSB Transceiver	JSB-50	BS-12235	JRC	1972			Damaged
1-2		**VHF System**							
1		VHF Transceiver	FM-400	247663	Furuno	1989			Good
2		VHF Transceiver	CHV-207-PS	CB-56511	JRC	1973			Damaged
3		VHF Transceiver	IC-2000		ICOM	1996			Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		18mH Antenna Tower (2 Unit)	R.III		JRC				Good
2		12mH Antenna Tower (2 Unit)							Good
2-2		**Antenna Selector**							
1		Antenna Coupler	XW-49	BP-73279	JRC	1972			Damaged
2		Antenna Matcher	MN-100		ICOM				Good
3		Antenna Tuner	AT-120		ICOM	1996			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply	PS-30A			1996			Good
2		Accumulator (2 Unit)	N-200		Dryfit	1996			Good
3-2		**Engine Generator**							
1		Engine 10.5 PK	TS-105C	20273,3	Yanmar	1982			Good
2		Engine 13 PK	TS-130	F-2685.7	Yanmar	1972			Good
3		Generator 7.5 kVA		MFD-11831	Osaka	1982			Good
4		Generator 5 kVA		7300173	Osaka	1972			Good
4		**Measuring Equipment**							
1		Multi Meter	YX-360TR		Sanwa	1994			

STATUS OF TROUBLES

SITE NAME : SINTETE **SNT-130-(1/1)**

Item / Equipment	Transceiver and Antenna 18M / -		
Manufacturer	-		
Manufacturer in year	1996 and 1982		
Defective panel / unit	Power Amplifier and Corrosion		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☑ Corrosion		☐ By next project
	☐ Lack of Spares		☐ Unnecessary
	☐ Others		

General Comment for Maintenance:

Routine maintenance for communication equipment facility must be with the sufficient budget, therefore maintenance budget allocation in the next year must be increased

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Sintete

SNT-130-(1/1)

Call Sign : Mobile Service : PKS.6
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	3 180,0	J3E	100		
3	6 215,0	J3E	100		
4	6.224,0	J3E	100		
	VHF Service				
5	Channel-16	G3E	25		
6	Channel-10	G3E	25		
	Fix Service				
7	5 381,0	J3E	100		
8					
9					
10					
11					
12					
13					
14					
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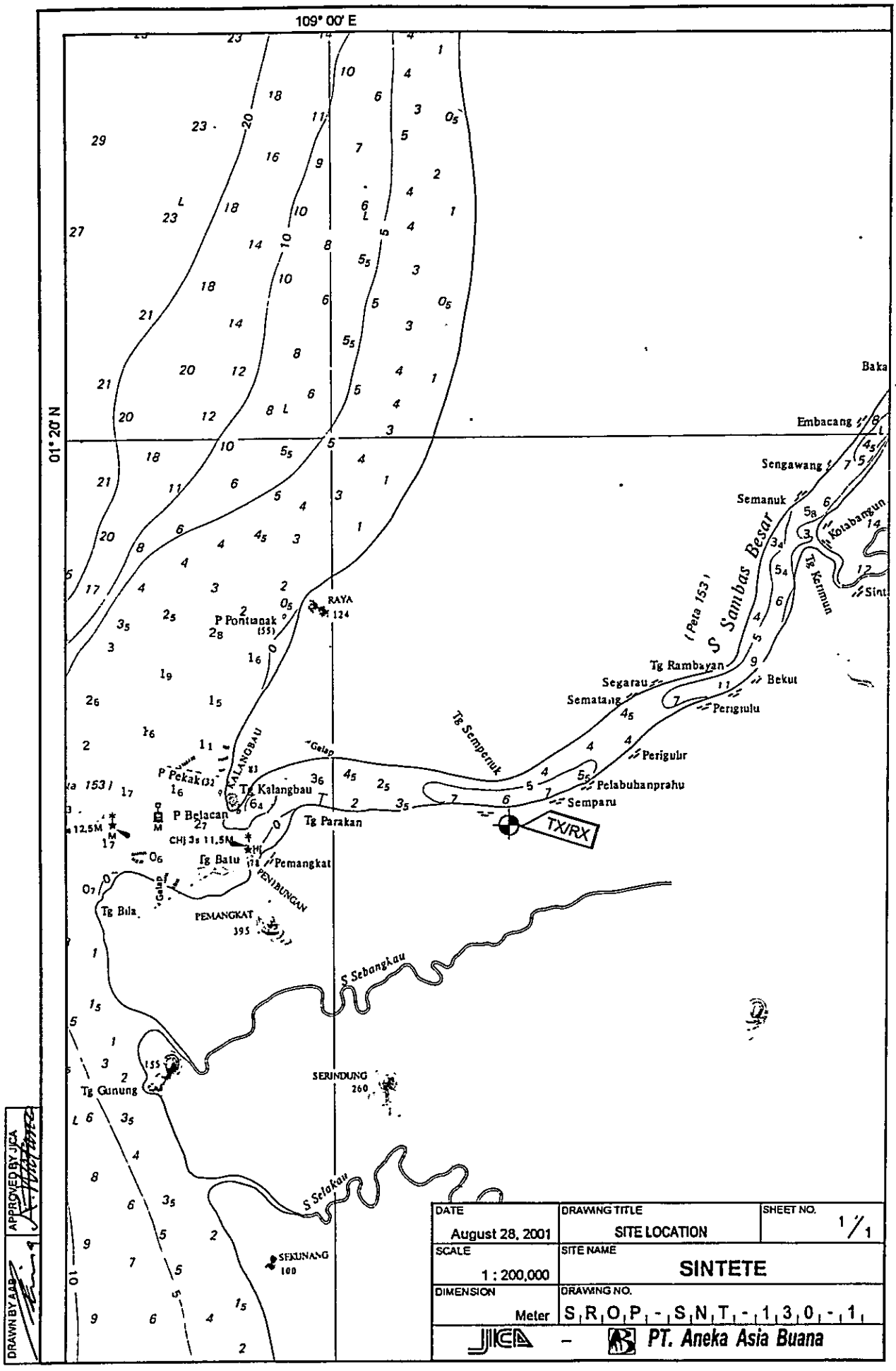
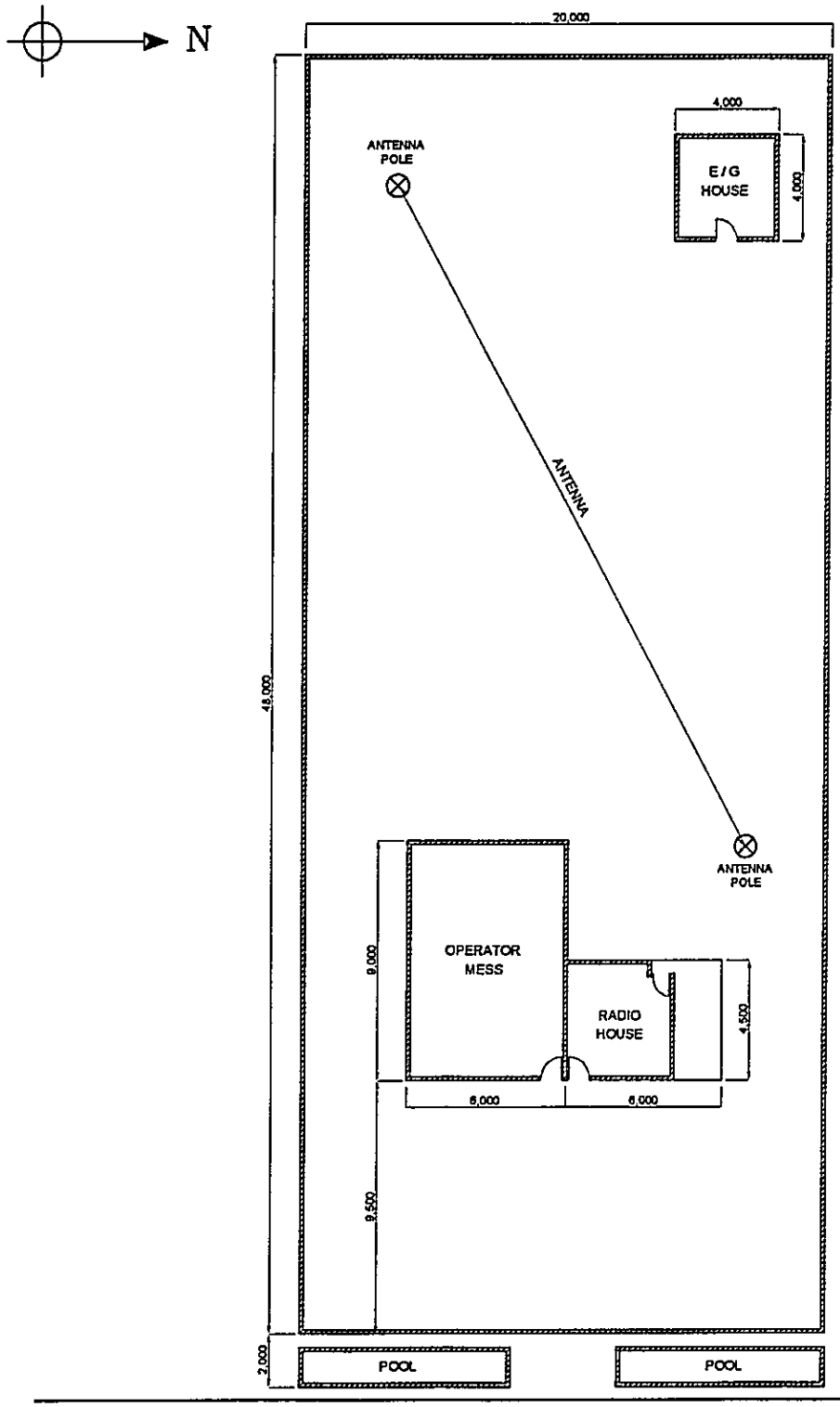
16					
17					
18					
19					
20					
21					
22					
23					

Opschedule-Sintete



DATE: August 28, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 200,000	SITE NAME: SINTETE	
DIMENSION: Meter	DRAWING NO.: S R O P - S N T - 1 3 0 - 1	
JICA - PT. Aneka Asia Buana		

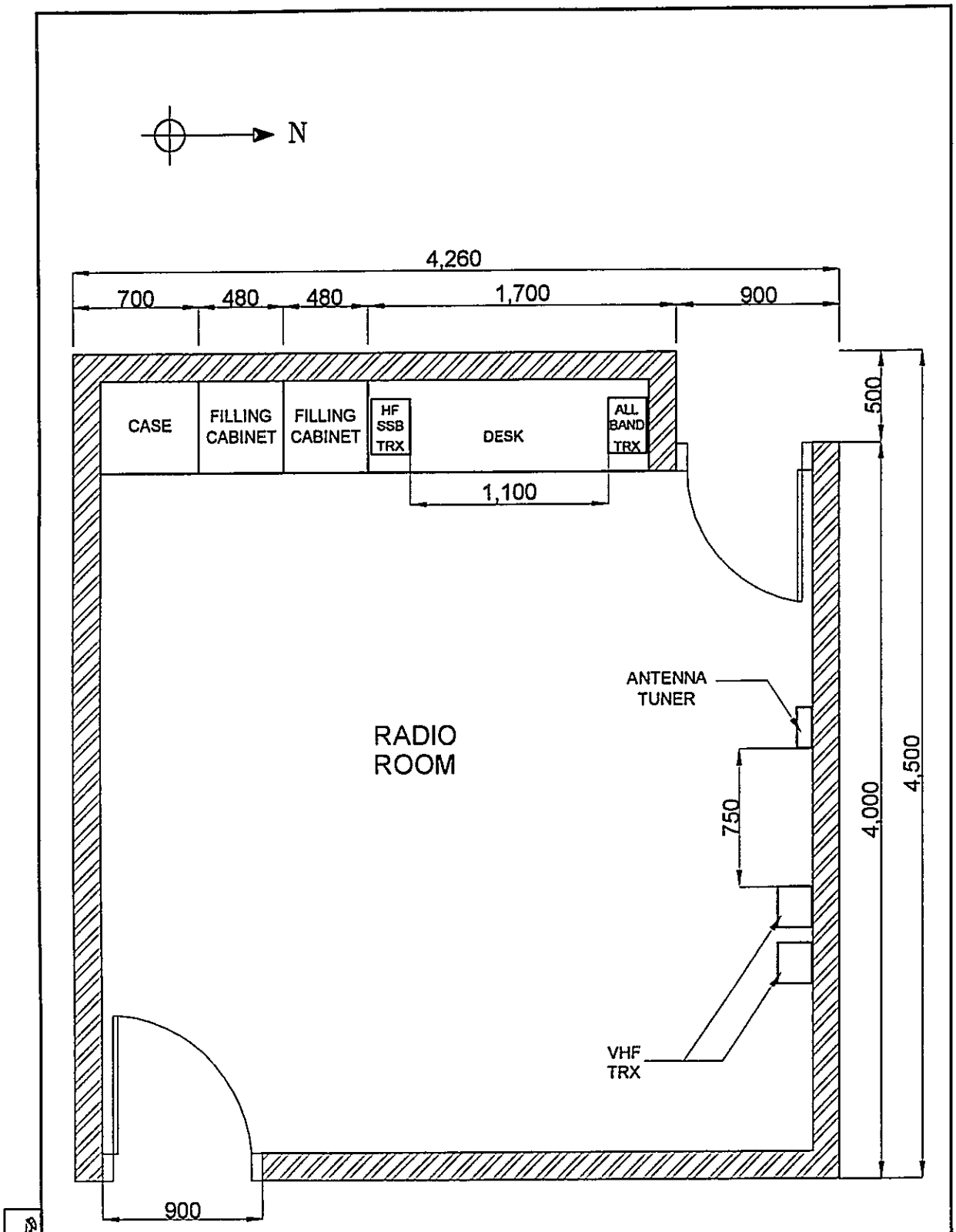


JL. PELABUHAN SINTETE

DATE: August 09, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 250	SITE NAME: SINTETE	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,S,N,T,-,1,3,0,-,2,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA :



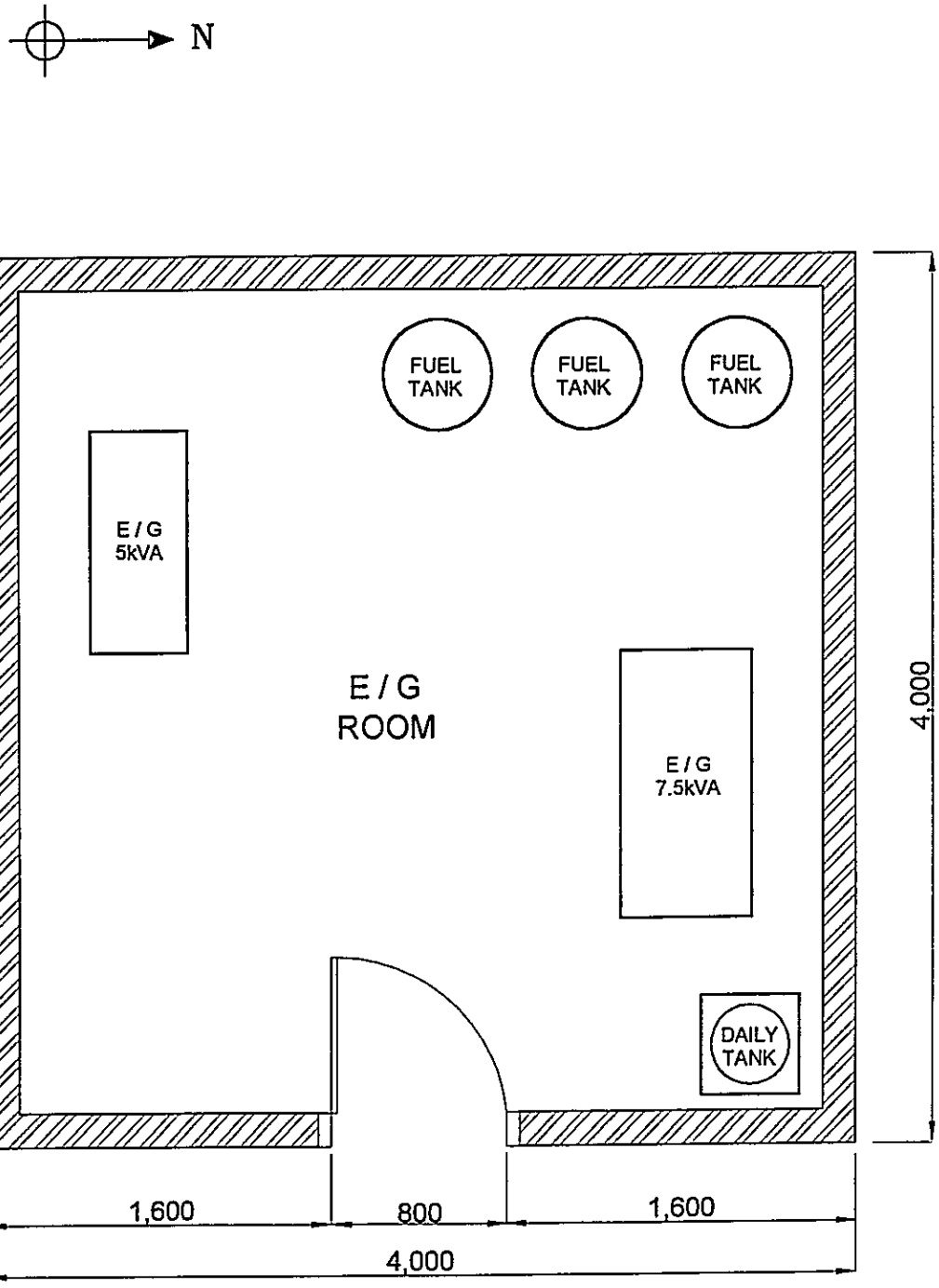
LEGEND

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

DATE: August 09, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 30	SITE NAME: SINTETE	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,S,N,T,-,1,3,0,-,3,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

DRAWN BY AAB



LEGEND

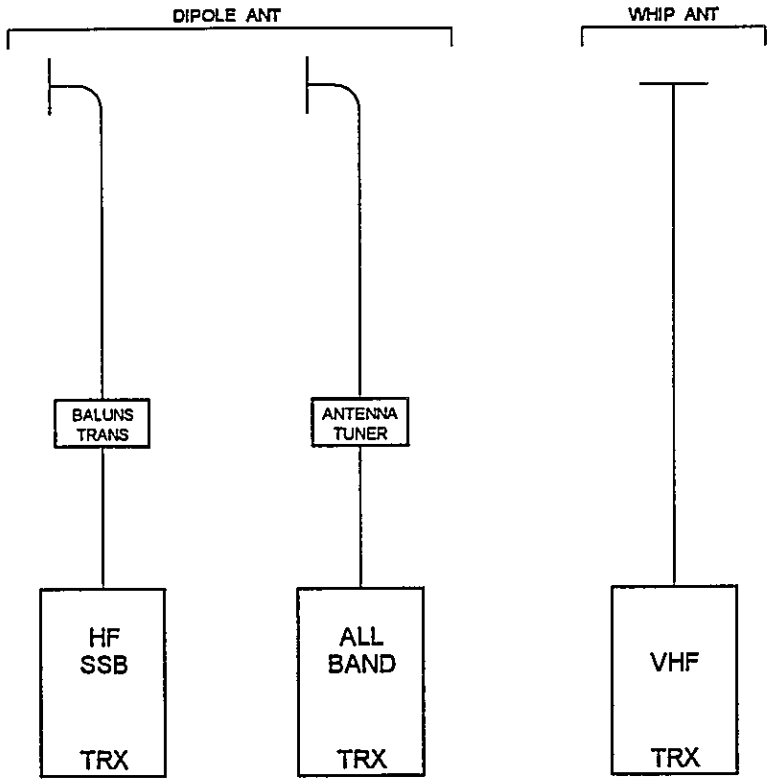
E/G : ENGINE GENERATOR

kVA : KILO VOLT AMPERE

APPROVED BY JICA.

DRAWN BY AAB

DATE: August 09, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 30	SITE NAME: SINTETE	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,S,N,T,-,1,3,0,-,4,	
JICA -	PT. Aneka Asia Buana	



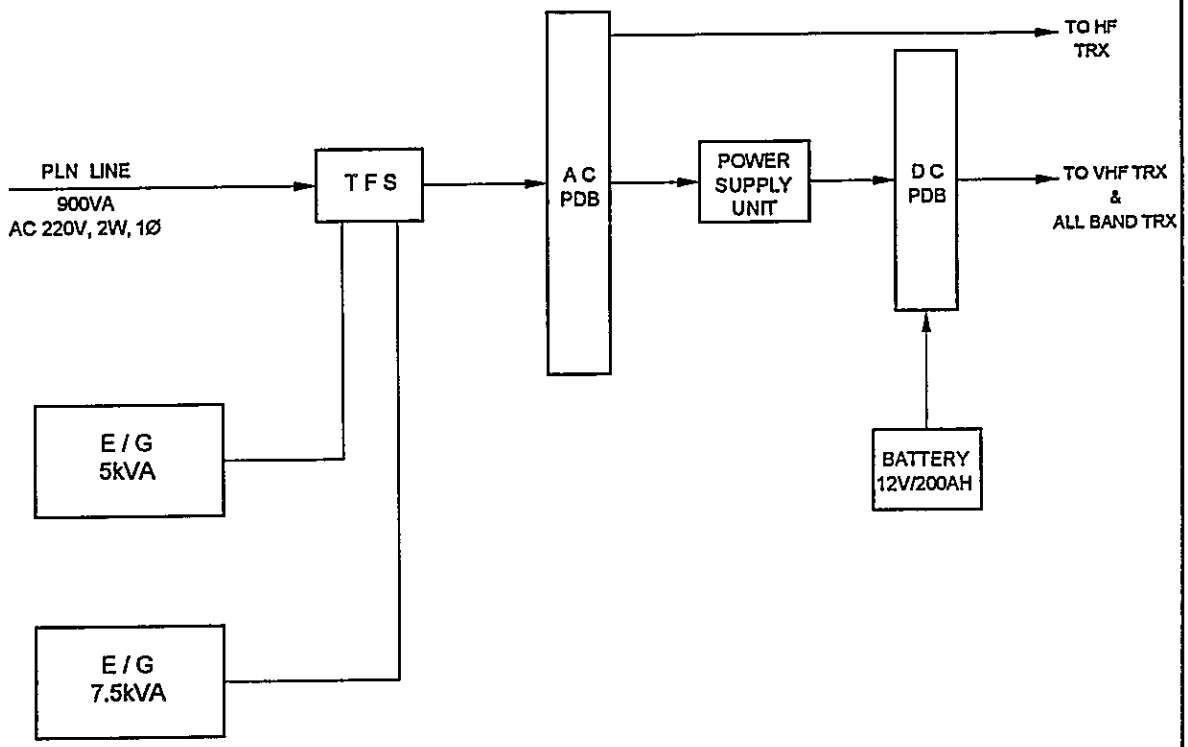
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: August 01, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SINTETE	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,S,N,T,-,1,3,0,-,5,	
JICA - PT. Aneka Asia Buana		



LEGEND

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

APPROVED BY JICA :

DRAWN BY AAB :

DATE: August 01, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO.: 1 / 1
SCALE: No Scale	SITE NAME: SINTETE	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,S,N,T,-,1,3,0,-,6,	
JICA –	PT. Aneka Asia Buana	

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

4th-B Class Coast Station

Telok Air

(Coast Station No. 131)

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	TELOK AIR		
CLASS	4th-B	NO.	131

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Kantor Adpel Pelabuhan Telok Air			109° 33′ 00″ E	00° 43′ 07″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Pontianak	[Taking time:	1:00 hr.]	☐ Highway	☐ Heavy	☐ Hotel	3,100
By Ship	to Telok Air	[Taking time	3:00 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time	0:10 hr.]	☐ Unpaved road	☑ Light		
					☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system		
				Yes	No	
☐ Flat	☐ Dry soil	☐ Limestone	☐ Flood	☑	☐	Antenna
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☐	☑	Towers (Masts)
☑ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐	☑	Grounding system
☐ Basin	☐ Clay	☑ Stony	☑ Ground Subsidence	☐	☑	Lightning system
☐ Valley	☐ Sandy			☐	☑	Feeder Cable Way
Altitude	1.50 M		Telephone Lines	☐	☑	City water
Land area	m²		☐ Lines			

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Zinc
Type of ceiling	Triplex
Type of wall	Concrete
Wall finish	Mortar
Flooring	Mortar
Room Area (m²)	
Operation room	33.00
E / G room	21.00
Remark	

3.3 Power Source

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

Quality of PLN source		
Fluctuations	30 V ± 10 %	
Availability of power per day	12 Hours	
Power interruption /month	8 Times	
Total interpt. hours /month	32 Hours	
Max. interpt. hours at once	8 Hours	

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

Capacity of fuel for engine	
Day tank	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 himself
Examples of major failure	Damaged by lightening and voltage flunctuation
Sufficiency of spares	Un-available

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☑ Lightning	Antenna	☑	☐	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	TELOK AIR		
CLASS	4th-B	NO.	131

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: Telok Air

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		HF SSB Transceiver	IC-M700	49751	ICOM	1996			Good
2		HF SSB Transceiver	JSB-50		JRC	1972			
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		12mHx2 Antenna Tower				1996			
2-2		**Antenna System**							
1		Dipole Antenna	L			1996			Good
2-3		**Antenna Selector**							
1		Antenna Matcher	MN-100	13479	ICOM	1996			Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR System**							
1		12V, 30A DC Power Supply		TA-3300A	G.I	1996			Good
2		12V, 200AH Accumulator (2)			G.S	1996			Good
3-2		**Engine Generator**							
1		Engine	TS-60		Yanmar				Not So Good
2		3kVA Generator		MFG-12255	OSAKA				Good

STATUS OF TROUBLES

SITE NAME : TELOK AIR **TLA-131-(1/1)**

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

General Comment for Maintenance:

For the time being Coast Station activity assigned by Adpel Telok Air office
Caused by un-sufficient budget, there is trouble on maintenance

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Telok Air

TLA-131-(1/1)

Call Sign : Mobile Service : PKS.20
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
	VHF Service				
1	Channel-16	G3E	25		
	Fix Service				
2	5 381,0	J3E	100		
3	8.110,0	J3E	100		
4					
5					
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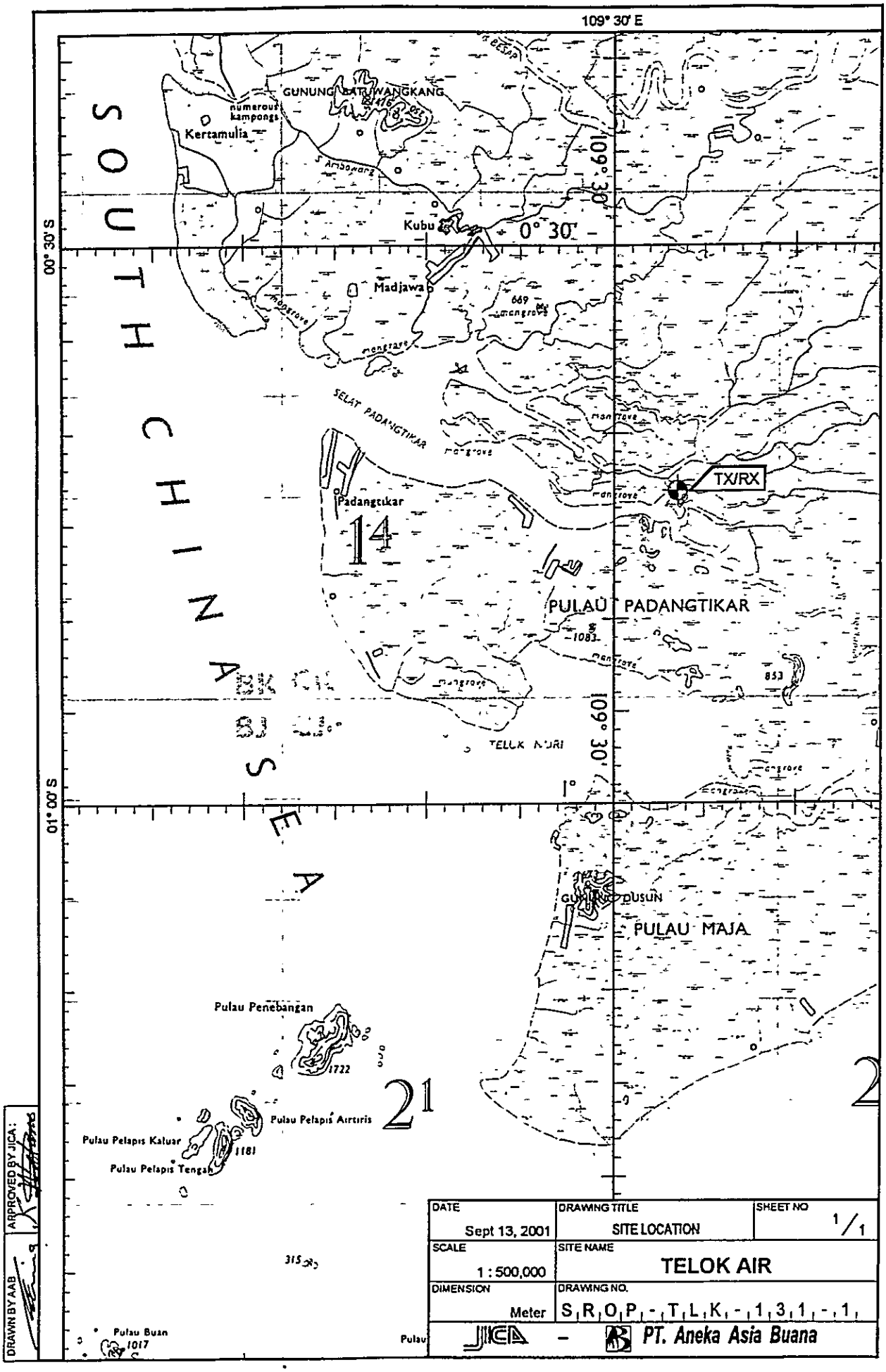

DATE: Sept 13, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
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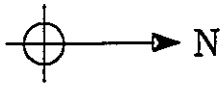
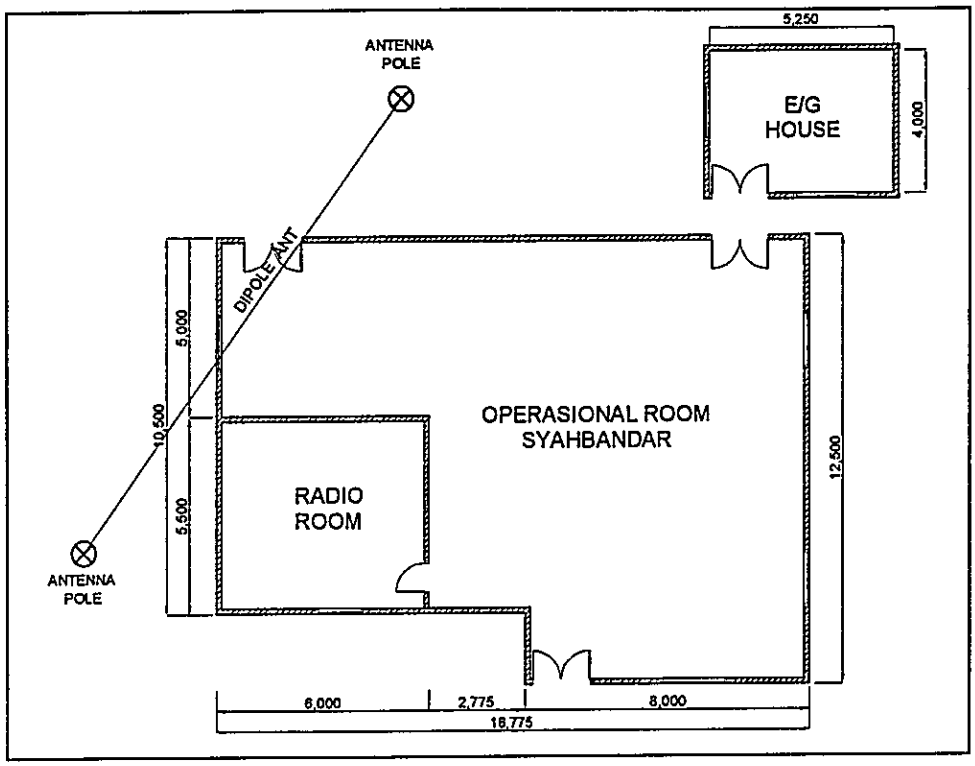
DIMENSION: Meter	DRAWING NO.: S,R,O,P,-,T,L,K,-,1,3,1,-,1	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA:



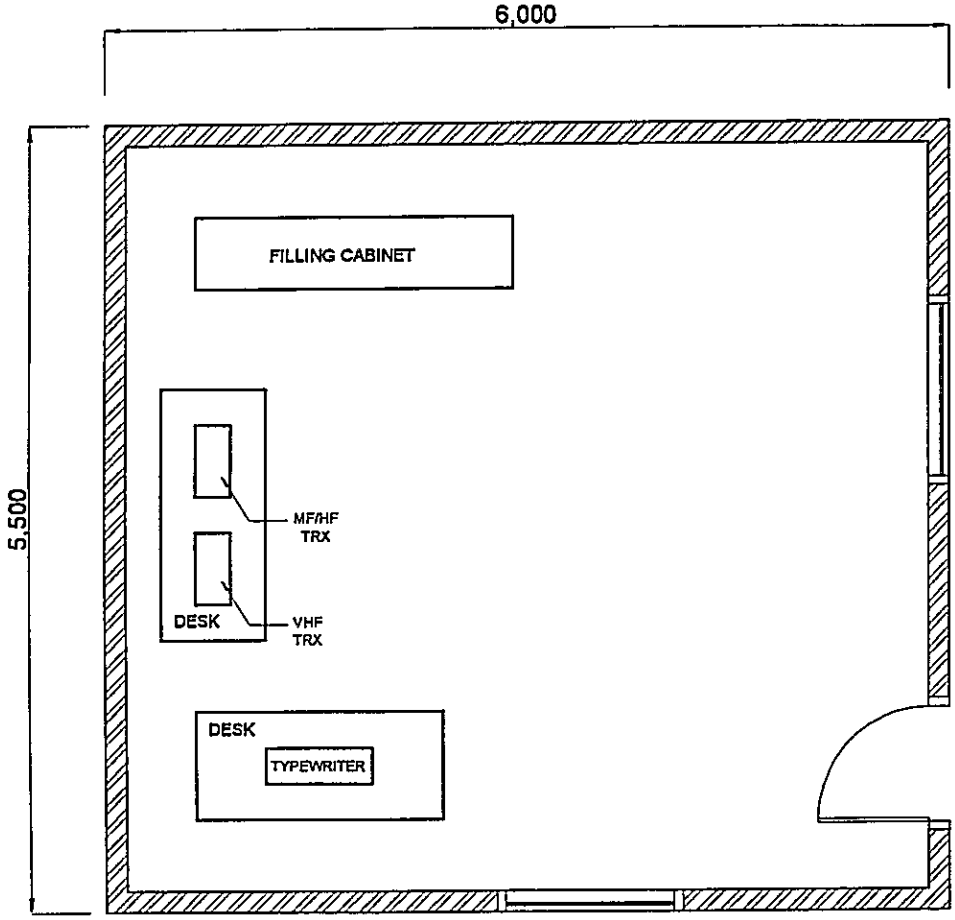


ROAD

APPROVED BY JICA :

DRAWN BY AAB :

DATE: Sept 11, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 200	SITE NAME: TELOK AIR	
DIMENSION: Milimeter	DRAWING NO.: SROP-TLA-131-2	
JICA –	PT. Aneka Asia Buana	



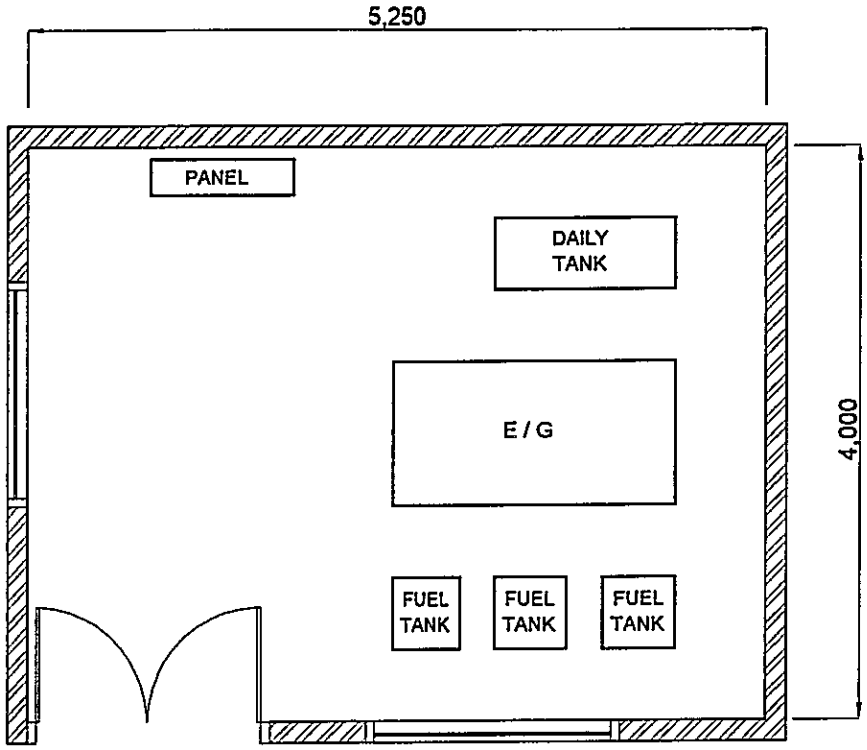
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: Sept 11, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: TELOK AIR	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,L,A,-,1,3,1,-,3,	
JICA – PT. Aneka Asia Buana		



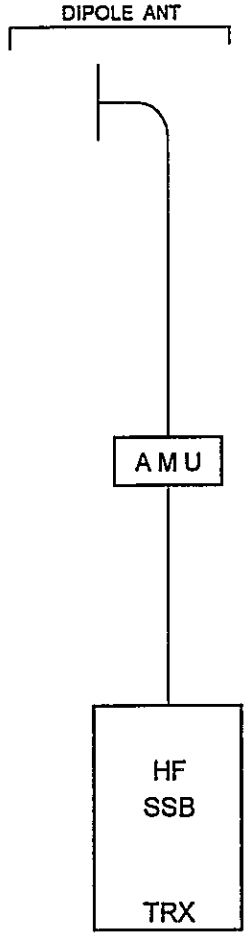
LEGEND

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

DATE: Sept 11, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: TELOK AIR	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,T,L,A,-,1,3,1,-,4,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA :

DRAWN BY AAB :

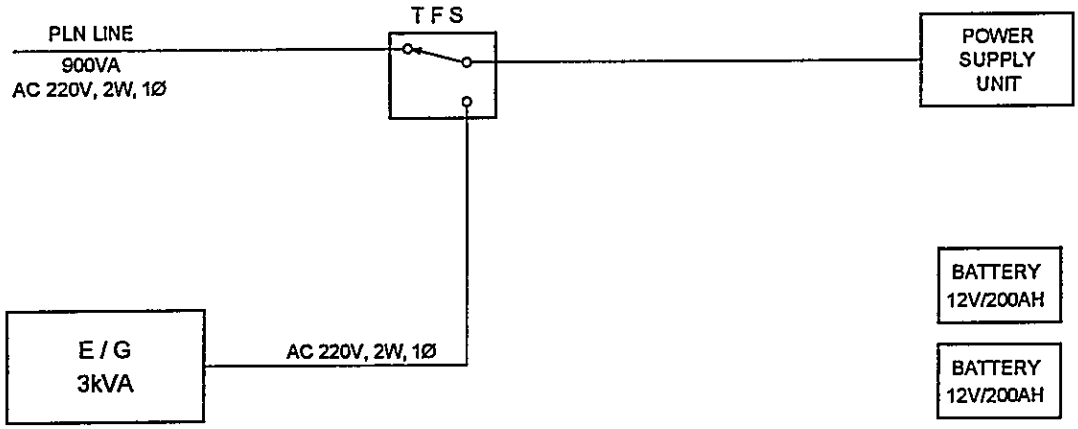


LEGEND

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

DATE: July 30, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: TELOK AIR	
DIMENSION: Milimeter	DRAWING NO.: SROP-TLA-131-5	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB
APPROVED BY JICA



LEGEND

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

DRAWN BY AAB

APPROVED BY JICA

DATE: July 30, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: TELOK AIR	
DIMENSION: Milimeter	DRAWING NO.: SROP-TLA-131-6	

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

2ND CLASS DISTRICT NAVIGATION AREA (15)
BANJARMASIN

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Area (15)

Banjarmasin

Table of Content

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Office (Area-15)
Banjarmasin

Table of Content

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF DISNAV

SITE	BANJARMASIN		
CLASS	2nd	NO.	15

1. LOCATION

Address	Tel.	Fax	Longitude	Latitude
Jl. Barito Hilir Pel. I Trisakti, Banjarmasin 70119	0511-52603	0511-56682	° ′ ″	° ′ ″

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Banjarmasin [Taking time: 1:30 hr]	☐ Highway	☐ Heavy	☑ Hotel	
By Car to Location [Taking time: 1.00 hr.]	☑ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF DISNAV OFFICE

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

3.3 Power Source

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

Quality of PLN source		
Fluctuations	10 V ± 4 %	
Availability of power per day	24 Hours	
Power interruption /month	5 Times	
Total interpt. hours /month	3 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	Liter
Main tank	k Liter

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself
Examples of major failure	
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

5. PERSONNEL FORMATIONS

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

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF DISNAV					SITE	BANJARMASIN		
					CLASS	2nd	NO.	15

6	Capability of Operator	☐ Skilled	☐ Not so bad	☐ Not capable					
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	
Remarks	

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

Kanwil Office (Disnav Area - 15)
Banjarmasin

Table of Content

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

Drawings:

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

Note :

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF KANWIL

SITE	BANJARMASIN		
CLASS		NO.	15

1. LOCATION

Address	Tel.	Fax	Longitude	Latitude
Jl. R.E Martadinata			° ' "	° ' "

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Banjarmasin [Taking time. 1:30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car to Location [Taking time: 1.00 hr]	☑ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF KANWIL OFFICE

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Shingle
Type of ceiling	
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic
Room Area (m²)	
Operation room	48.00
E / G room	
Remark	

3.3 Power Source

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

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

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

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

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow	Equipment did not used anymore
Examples of major failure	
Sufficiency of spares	

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

Institutional and Human Statuses

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF KANWIL

SITE	BANJARMASIN		
CLASS		NO	15

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			

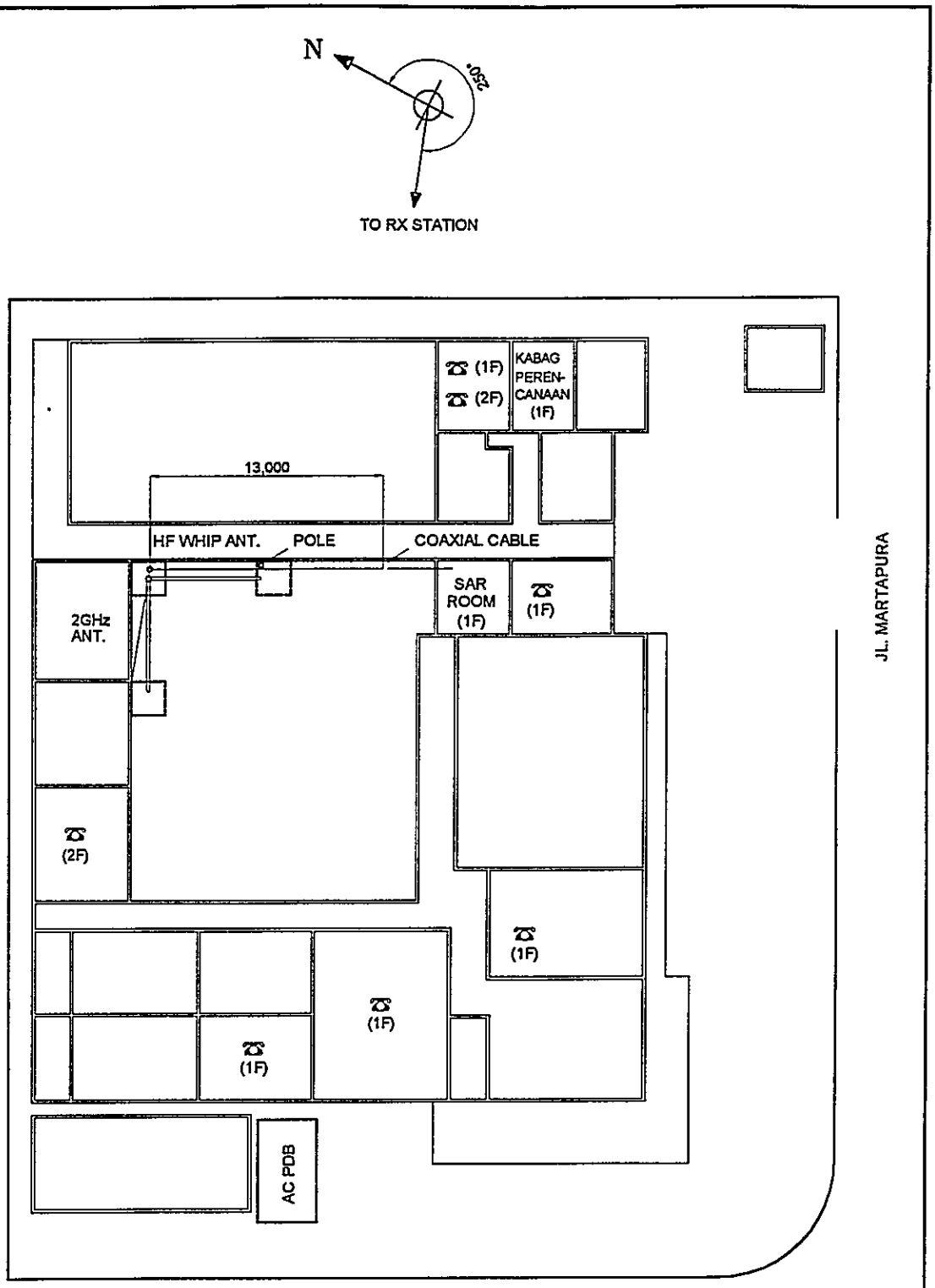
7. COMMENTS

Suggestion	
Remarks	

INVENTORY

Site Nama: Kanwil Banjarmasin

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-1		**Remote Control System**							
1		DRCS-SS Radio Link	JUL-105-4	ET-12126	JRC	1989	SAR Project		Damaged
1-2		**Search & Monitor Console**							
1		SAR Console II-2	NCA-682C	LP-91902	JRC	1989	SAR Project		Damaged
1-3		**VHF System**							
1		MDF	NQE-357E1	518748	JRC	1989	SAR Project		Damaged
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
1		Self Support Pole	TS-25M	64213	JRC	1989	SAR Project		Good
2-2		**Antenna System**							
1		1,2M Grid Parabolic	KP4F-23	38161	JRC	1989	SAR Project		Good
2		Whip Antenna	WA-13	-	JRC	1989	SAR Project		Good
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		Back up Power Supply	NBB-31-102	S-6492	JRC	1989	SAR Project		Damaged



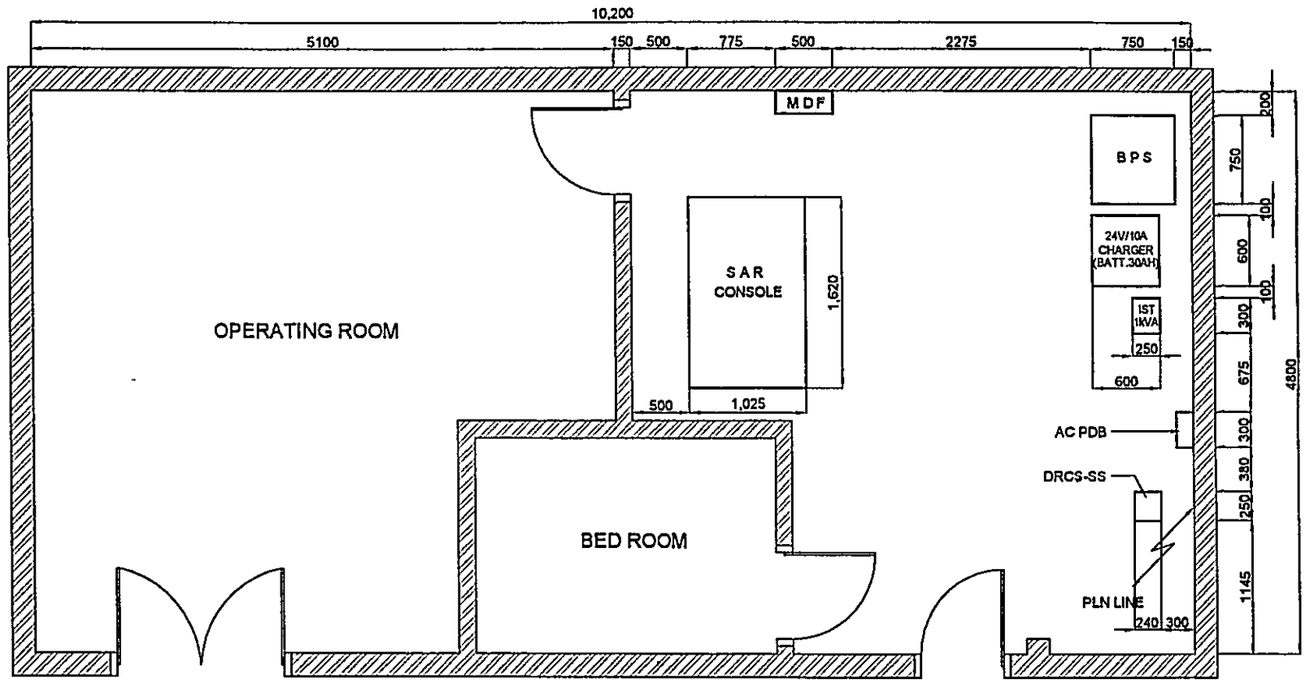
LEGEND

AC : ALTERNATING CURRENT
ANT : ANTENNA
HF : HIGH FREQUENCY
PDB : POWER DISTRIBUTION BOARD
☎ : TELEPHONE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 04, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 300	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO: KWIL-BJM-1321-2	
JICA –	PT. Aneka Asia Buana	



1st FLOOR

LEGEND

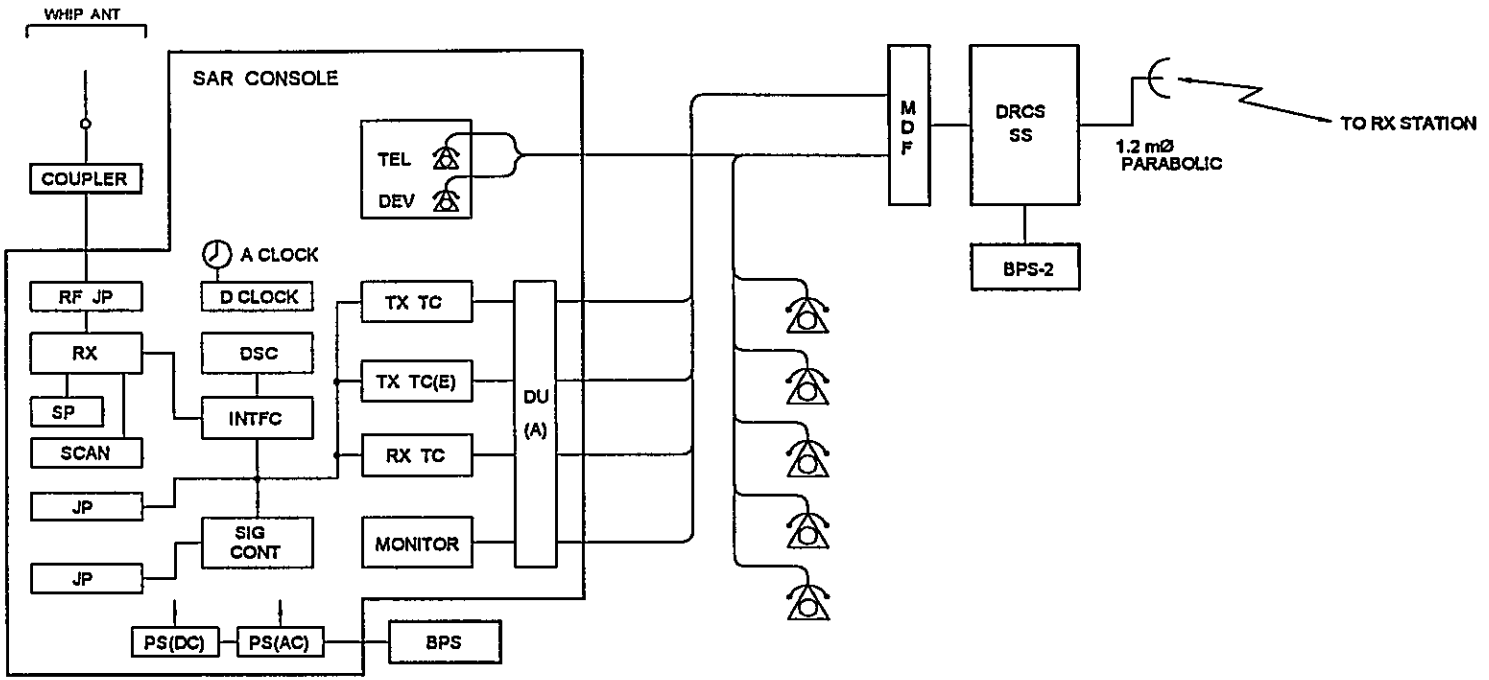
AC : ALTERNATING CURRENT
BPS : BATTERY POWER SUPPLY
IST : ISOLATION TRANSFORMER
PDB : POWER DISTRIBUTION BOARD
MDF : MAIN DISTRIBUTION FRAME

DRAWN BY AAB | APPROVED BY JICA

DATE: July 04, 2001	DRAWING TITLE: EQUIPMEN FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: KWIL-BJM-132-3	

JICA – PT. Aneka Asia Buana

DRAWN BY AAB | APPROVED BY JICA

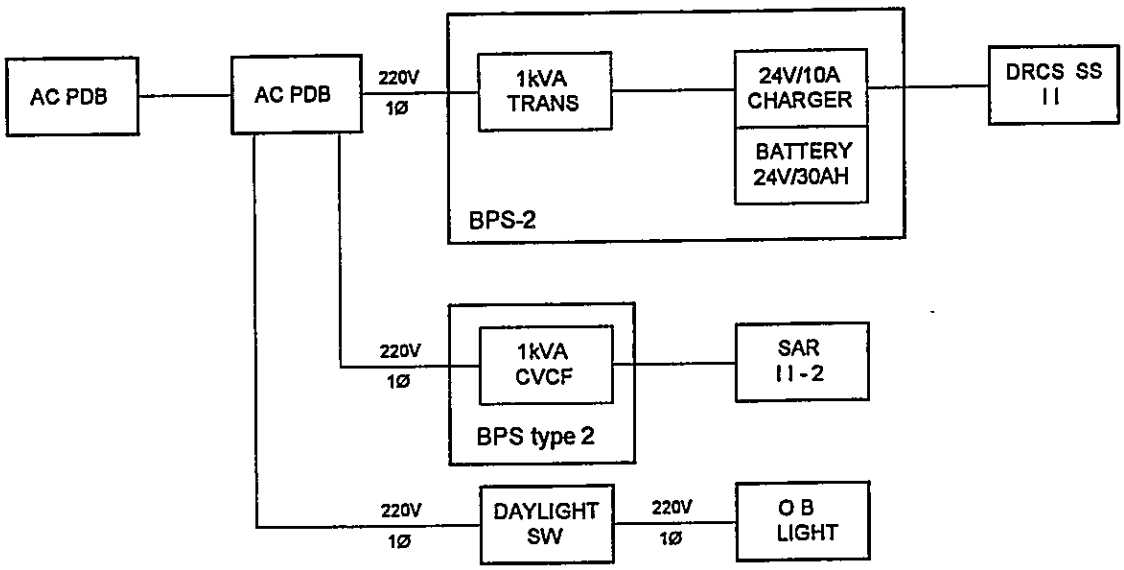


LEGEND

BPS : BATTERY POWER SUPPLY
DSC : DIGITAL SELECTIVE CALLING
JP : JACK PANEL
PS : POWER SUPPLY
SP : SPEAKER
TX : TRANSMITTER
RX : RECEIVER

DATE	July 04, 2001
SCALE	No Scale
DIMENSION	Milimeter
DRAWING TITLE	SYSTEM BLOCK DIAGRAM
SITE NAME	BANJARMASIN
DRAWING NO	K,W,1,L,-,B,J,M,-,1,3,2,-,5,
SHEET NO	1/1

JICA – PT. Aneka Asia Buana



LEGEND

AC : ALTERNATING CURRENT
BPS : BATTERY POWER SUPPLY
kVA : KILO VOLT AMPERE
PDB : POWER DISTRIBUTION BOARD

APPROVED BY JICA:

DRAWN BY AAB

DATE: July 04, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: KWIL-BJM-132-6	
JICA –	PT. Aneka Asia Buana	

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

ADPEL/KPLP Office (Disnav Area - 15)
Banjarmasin

Table of Content

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF ADPEL / KPLP

SITE	BANJARMASIN		
CLASS		NO.	XV

1. LOCATION

Address	Tel.	Fax	Longitude	Latitude
Jl. Barito Hilir-Trisakti Banjarmasin			° ' "	° ' "

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Banjarmasin [Taking time: 1:30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Car to Location [Taking time: 1.00 hr.]	☑ Paved	☑ Medium	☐ Motel	
	☐ Unpaved road	☐ Light		
		☐ None		

3. CONDITIONS OF ADPEL/KPLP OFFICE

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

3.3 Power Source

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

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

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

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

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Equipment did not used any more
Examples of major failure	
Sufficiency of spares	

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

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

5. PERSONNEL FORMATIONS

Chief	
Operator (skilled)	()
Technician (skilled)	()
Administrator	
Total	

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF ADPEL / KPLP	SITE	BANJARMASIN		
	CLASS		NO.	XV

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	

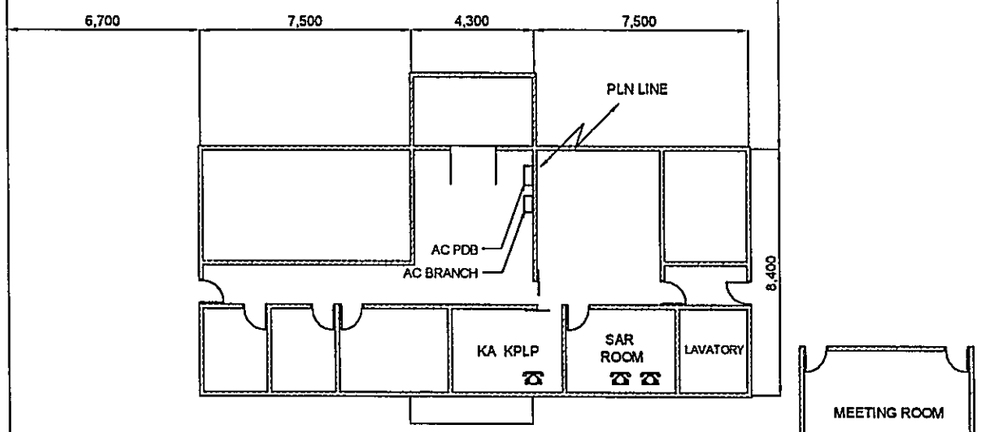
INVENTORY

Site Nama: Adpel-Kplp Banjarmasin

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Search & Monitor Console**							
1		SAR Console-III-2	NCA-682E	BP-91912	JRC	1989	SAR Project		Damaged
1-2		**VHF System**							
1		MDF	NQE-357E1		JRC	1989	SAR Project		Damaged
2		**Power Supply Equipment**							
2-1		**Power Distribution Board**							
1		Back up Power Supply	EZED-00021	167083	JRC	1989	SAR Project		Damaged

Banjarmasin

JL. SUNGAI BARNO



MDF EARTH POINT

TO V-5 COAST RADIO RX

TO V-4 ADPEL/HBM LALA

LEGEND

BPS : BATTERY POWER SUPPLY

MDF : MAIN DISTRIBUTION FRAME

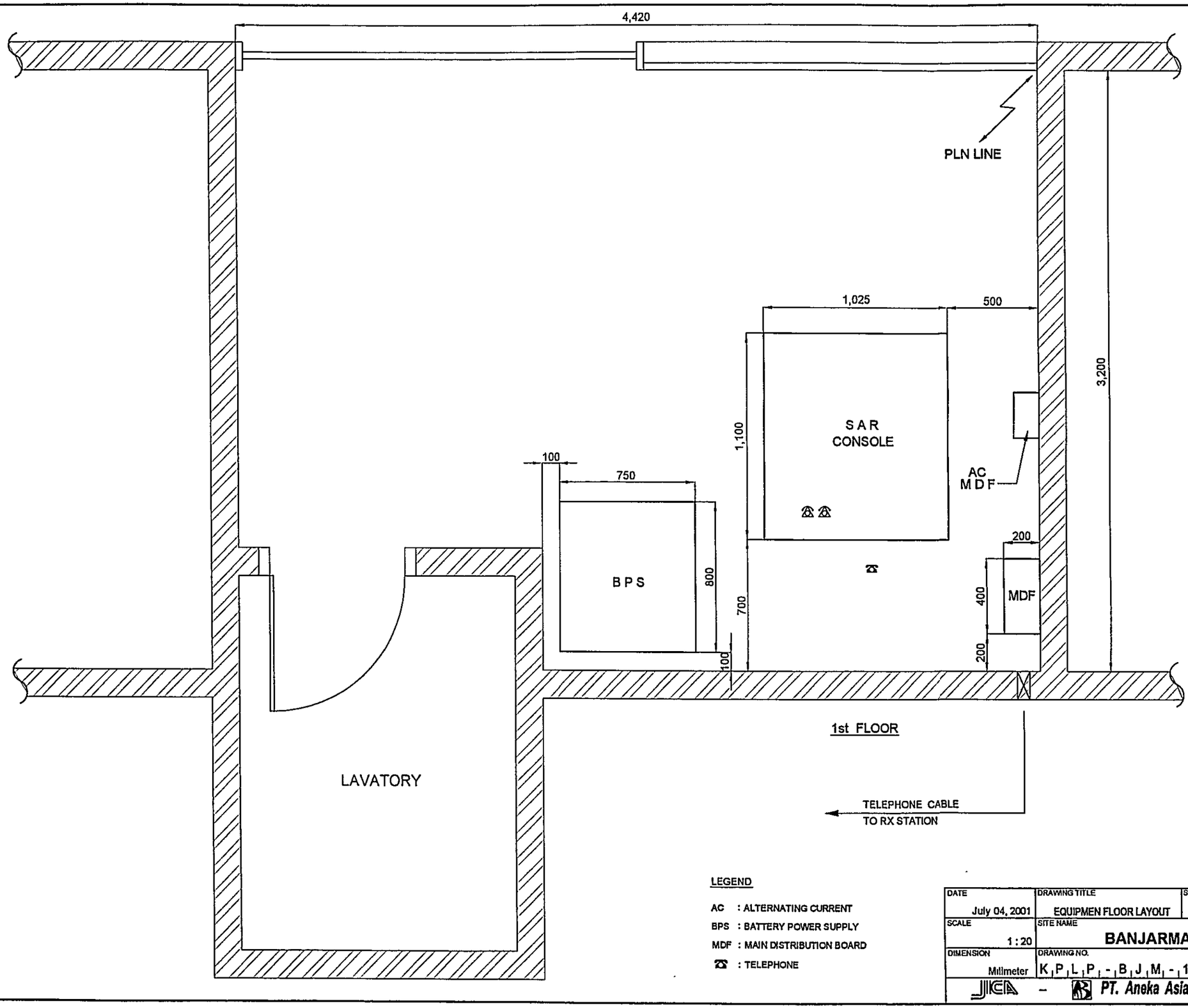
☎ : TELEPONE

DRAWN BY AAB

APPROVED BY JICA

DATE: June 6, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 200	SITE NAME: BANJARMASIN	
DIMENSION: Millimeter	DRAWING NO.: KPLP-BJM-132-1	

JICA – PT. Aneka Asia Buana



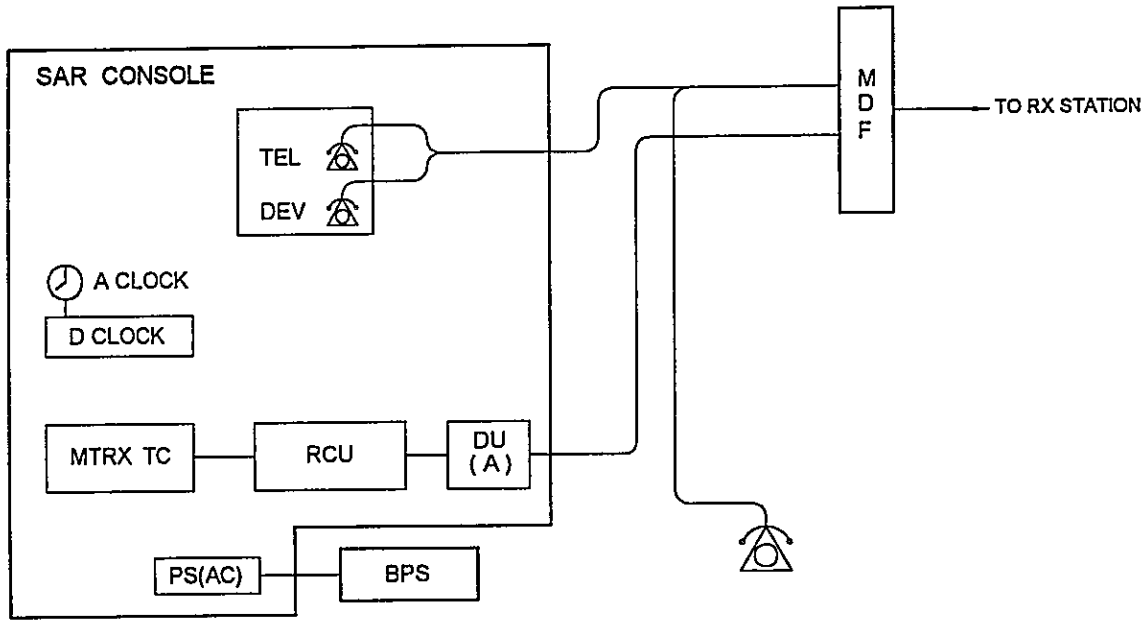
LEGEND

AC : ALTERNATING CURRENT
BPS : BATTERY POWER SUPPLY
MDF : MAIN DISTRIBUTION BOARD
☎ : TELEPHONE

DRAWN BY AAB
APPROVED BY JICA

DATE: July 04, 2001	DRAWING TITLE: EQUIPMEN FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 20	SITE NAME: BANJARMASIN	
DIMENSION: Millimeter	DRAWING NO.: KPLP-BJM-1321-3	

JICA – PT. Aneka Asia Buana



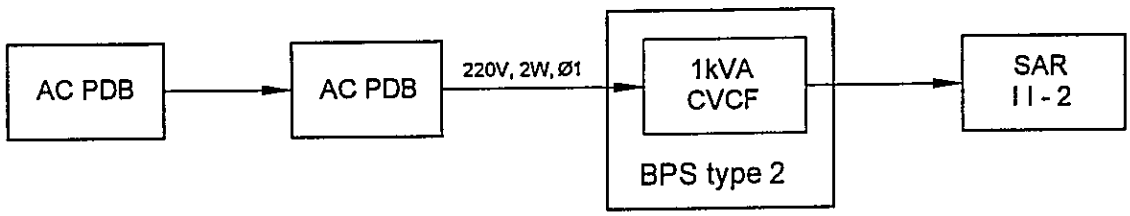
LEGEND

BPS : BATTERY POWER SUPPLY
MDF : MAIN DISTRIBUTION FRAME
PSU : POWER SUPPLY UNIT
TEL : TELEPHONE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 04, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: KPLP-BJM-132-5	
JICA –	PT. Aneka Asia Buana	



LEGEND

AC : ALTERNATING CURRENT
BPS : BATTERY POWER SUPPLY
kVA : KILO VOLT AMPERE
PDB : POWER DISTRIBUTION BOARD
V : VOLT
Ø : PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 04, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: KPLP-BJM-1321-6	
JICA –	PT. Aneka Asia Buana	

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

2nd Class Coast Station
Banjarmasin
(Coast Station No. 132)

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	BANJARMASIN		
CLASS	2nd	NO.	132

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
RX	Jl. Barito Hilir, Pelabuhan Trisakti	68454, 54732		114° 33′ 35″ E	03° 19′ 40″ S
TX	Jl. Belitung Darat No. 20	65492		114° 34′ 45″ E	03° 18′ 20″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Banjarmasin [Taking time: 1.30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
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	M		Telephone Lines	☑ ☐ Feeder Cable Way
Land area	6,010 m²		☑ 2 Lines	☑ ☐ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Roof-tile
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic
Room Area (m²)	
Operation room	123.00
E / G room	57.00
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220/380 V	220 V
Phase	3	1
Wire	4	2
kVA	16.5	5

Quality of PLN source	
Fluctuations	10 V ± 4 %
Availability of power per day	24 Hours
Power interruption /month	2 Times
Total interpt. hours /month	12 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	100 Liter
Main tank	1 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	m		Telephone Lines	☑ ☐ Feeder Cable Way
Land area	10,729 m²		☑ Lines	☑ ☐ City water

SUMMARY OF COAST STATION

SITE	BANJARMASIN		
CLASS	2nd	NO.	132

4. CONDITIONS OF TRANSMITTING STATION (Continued)

Refer to attached drawing

Building Conditions		Power Source			
Constructions			PLN Source	E/G	Existing Power Conditions
Num. of story	One	Voltage	220/380 V	220/380 V	Good Bad
Structure	Concrete	Phase	3	3	☑ ☐ Power Supply System
Type of roof	Zinc	Wire	4	4	☑ ☐ Operations of E/G
Type of ceiling	Triplex	kVA	53	40	☑ ☐ Operations of AVR
Type of wall	Brick	Quality of PLN source			Capacity of fuel for engine
Wall finish	Mortar	Fluctuations	10 V ± 4 %		Day tank 350 Liter
Flooring	Ceramic	Availability of power per day	24 Hours		Main tank 5.6 k Liter
Room Area (m²)		Power interruption /month	10 Times		E/G Stand-by System
Operation room	123.00	Total interpt. hours /month	20 Hours		☐ Single System
E / G room	40.00	Max. interpt. hours at once	6 Hours		☑ Dual System
Remark					

5. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Repaired by himself
Examples of major failure	Remote for MF Transmitter does not work
Sufficiency of spares	Medium

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ Storm		☑	☐	External noises
☑ Lightning	Antenna damaged	☑	☐	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)	10 (8)	()
Technician (skilled)	1 ()	7 (1)
Administrator	2	
Total	14	7

Training Record				
Course	Class	Location	Period	Trainee
Oru	III	Jakarta	1989	8
Oru	Oru	Jakarta	1995	2
Oru	Oru	Jakarta		2
TTP	III	Jakarta	1994	1

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	85				1991				1996	1,339	5,85	1,414
1997	53				1992				1997	1,304	5,22	1,527
1998	97				1993				1998	912	3,356	1,041
1999	69				1994				1999	918	3,514	
2000	75				1995	1,556	7,047	1,627	2000	555	1,938	847

8. COMMENTS

Suggestion	
Remarks	

INVENTORY

Site Name: Banjarmasin

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		Transmitter	JRS-108P	BS61990	JRC	1987		F-TA-193:PH1	Good
2		Transmitter	JRS-108P	BS61991	JRC	1987		F-TA-193:PH1	Good
3		Transmitter	JRS-106NB	BS61912	JRC	1987		F-TA-193:PH1	Good
4		Transmitter	JRS-106NB	BS61913	JRC	1987		F-TA-193:PH1	Good
5		Transmitter	JRS-106NB	BS61914	JRC	1987		F-TA-193:PH1	Good
6		Transmitter	JRS-106NB	BS61915	JRC	1987		F-TA-193:PH1	Good
7		Transmitter	JRS-106NB	BS61916	JRC	1987		F-TA-193:PH1	Good
8		Teleprinter	T-1000	BC/N-191559	Siemens	1987		F-TA-193:PH1	Good
9		Teleprinter	T-1000S	BC/V-102543	Siemens	1987		F-TA-193:PH1	Good
1-2		**Remote Control System**							
1		Remote Control Rack	GED-1090A	BP90939	JRC	1987		F-TA-193:PH1	Good
2		Connection Rack	GED-1086A	BP90945	JRC	1987		F-TA-193:PH1	Good
3		Control Cubical (TX)	-	H5752	JRC	1987		F-TA-193:PH1	Good
1-3		**Operator Console/Desk/Rack**							
1		MF TG Console	NCR-644	BP90859	JRC	1987		F-TA-193:PH1	Good
2		HF TG Console	NCA-642	BP90851	JRC	1987		F-TA-193:PH1	Good
3		MF/HF TG Console	NCA-643	BP90855	JRC	1987		F-TA-193:PH1	Good
4		Fixed Comm Console	NCA-647A	BP90864	JRC	1987		F-TA-193:PH1	Good
5		Supervisory Console	NCA-640	90839	JRC	1987		F-TA-193:PH1	Good
1-4		**VHF System**							
1		VHF Console	GED-501YB	CM63488	JRC	1987		F-TA-193:PH1	Good
2		VHF Marine Transceiver	GED-260YL	CM63452	JRC	1987		F-TA-193:PH1	Good
3		VHF Marine Transceiver	GED-260YK	CM63459	JRC	1987		F-TA-193:PH1	Good
4		VHF Multi Channel Transceiver	JHF-227YA	CM63468	JRC	1987		F-TA-193:PH1	Good
1-5		**UHF/SHF Link**							
1		Multiplex Radio Relay Eqpt	JUP-450	EM11780	JRC	1987		F-TA-193:PH1	Good
2		Multiplex Radio Relay Eqpt.	JUP-450	EM11778	JRC	1987		F-TA-193:PH1	Good
3		Multiplex Terminal Eqpt.	JUP-5A	EP12047	JRC	1987		F-TA-193:PH1	Good
4		Multiplex Terminal Eqpt.	JUP-5A	EP12047	JRC	1987		F-TA-193:PH1	Good

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		Main Distribution Frame	NQE-40A2	EQ14017	JRC	1987		F-TA-193:PH1	Good
6		Main Distribution Frame	NQE-40A2	EQ14018	JRC	1987		F-TA-193:PH1	Good
2		**Tower & Antenna System**							
2-1		**Tower & Mast**							
		TX Station							
1		Self Supporting Tower T1	Square	-	JRC	1987		F-TA-193:PH1	Good
2		Self Supporting Tower T2	Square	-	JRC	1987		F-TA-193:PH1	Good
3		Self Supporting Tower T3	Square	-	JRC	1987		F-TA-193:PH1	Good
4		Self Supporting Tower T4	Square	-	JRC	1987		F-TA-193:PH1	Good
5		Self Supporting Tower	Square	-	JRC	1987		F-TA-193:PH1	Good
6		Self Supporting Tower	Square	-	JRC	1987		F-TA-193:PH1	Good
7		Panzer mast PA		-	JRC	1987		F-TA-193:PH1	Good
8		Self Supporting		-	JRC	1987		F-TA-193:PH1	Good
2-2		**Antenna System**							
		5 Wires T-Type Antenna	5WT-Type		JRC	1987		F-TA-193:PH1	Good
		4 Wires T-Type Antenna	4WT-Type		JRC	1987		F-TA-193:PH1	Good
		Inverted L Antenna	IL		JRC	1987		F-TA-193:PH1	Good
		Yagi Antenna	Y8-4503SA		JRC	1987		F-TA-193:PH1	Good
		Yagi Antenna	Y8-4503SA		JRC	1987		F-TA-193:PH1	Good
		Brown Cardioid	BRC-1501		JRC	1987		F-TA-193:PH1	Good
		VHF Antenna	3065-30-3R		JRC	1987		F-TA-193:PH1	Good
2-3		**Antenna Switch**							
1		Antenna Switching Matrix	ASED-00036	97955-1	JRC	1987		F-TA-193:PH1	Good
2		Antenna Exchanger	NKZ-223	BP91390	JRC	1987		F-TA-193:PH1	Good
2-4		**Antenna Matching Unit**							
1		Matching Unit Control	NCM-134F	BP91385	JRC	1987		F-TA-193:PH1	Good

INVENTORY

Site Name: Banjarmasin

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		**Power Supply Equipment**							
3-1		**Power Distribution Board**							
1		PDB (TX)	NBJ-223A	W100836-1	JRC	1987		F-TA-193:PH1	Good
2		PDB (RX)	NBJ-223B	W100836-5	JRC	1987		F-TA-193:PH1	Good
3-2		**UPS & AVR System**							
1		AVR (TX)	ERED-00011	S23538	JRC	1987		F-TA-193:PH1	Good
2		AVR (RX)	ERED-00014	S23532	JRC	1987		F-TA-193:PH1	Good
3-3		**Engine Generator**							
1		Diesel Engine Generator 5kVA	E2L-912	0213792C	Mits.	1987		F-TA-193:PH1	Good
2		Diesel Engine Generator 5kVA	E2L-912	0213794C	Mits.	1987		F-TA-193:PH1	Good
3		Diesel Engine Generator 40kVA	T5L-912	507747	Mits	1987		F-TA-193:PH1	Good
4		Diesel Engine Generator 40kVA	T5L-912	507749	Mits.	1987		F-TA-193:PH1	Good
4		**Measuring Equipment**							
1		Oscilloscope	2235	B-032324	Tetronix	1987		F-TA-193:PH1	Good
2		Frequency Counter	MF-57A	M-81136	Anritsu	1987		F-TA-193:PH1	Good
3		Signal Generator	MG-3601A	M-21137	Anritsu	1987		F-TA-193:PH1	Good
4		Audio Distortion Meter	796-F	M51753001	Shibasoku	1987		F-TA-193:PH1	Good
5		Spectrum Analyzer	MS-62B	M-17232A	Anritsu	1987		F-TA-193:PH1	Good
6		Attenuator	KAT-502	7S904-1	-	1987		F-TA-193:PH1	Good
7		Signal Generator	MG-540	M-51135	Anritsu	1987		F-TA-193:PH1	Good
8		Field Strength Meter	M-262E	M-43234	Anritsu	1987		F-TA-193:PH1	Good
9		Transmission Measuring Set	ME-446A	M-58036	Anritsu	1987		F-TA-193:PH1	Good
10		Electronic Volt Meter	ML-69A	M-45335	Anritsu	1987		F-TA-193:PH1	Good
11		Universal Counter	TR-5623	70570346	Advantest	1987		F-TA-193:PH1	Good
12		Power Meter 20 Watt	TP-5J1A	31988	Fujisoku	1987		F-TA-193:PH1	Good
13		Power Meter 100 Watt	TP-5J3A	32166	Fujisoku	1987		F-TA-193.PH1	Good
14		Selective Level Meter	AD-2530	73900901	Ando	1987		F-TA-193:PH1	Good
15		Output Tester	MS-52B	M-71134	Anritsu	1987		F-TA-193:PH1	Good

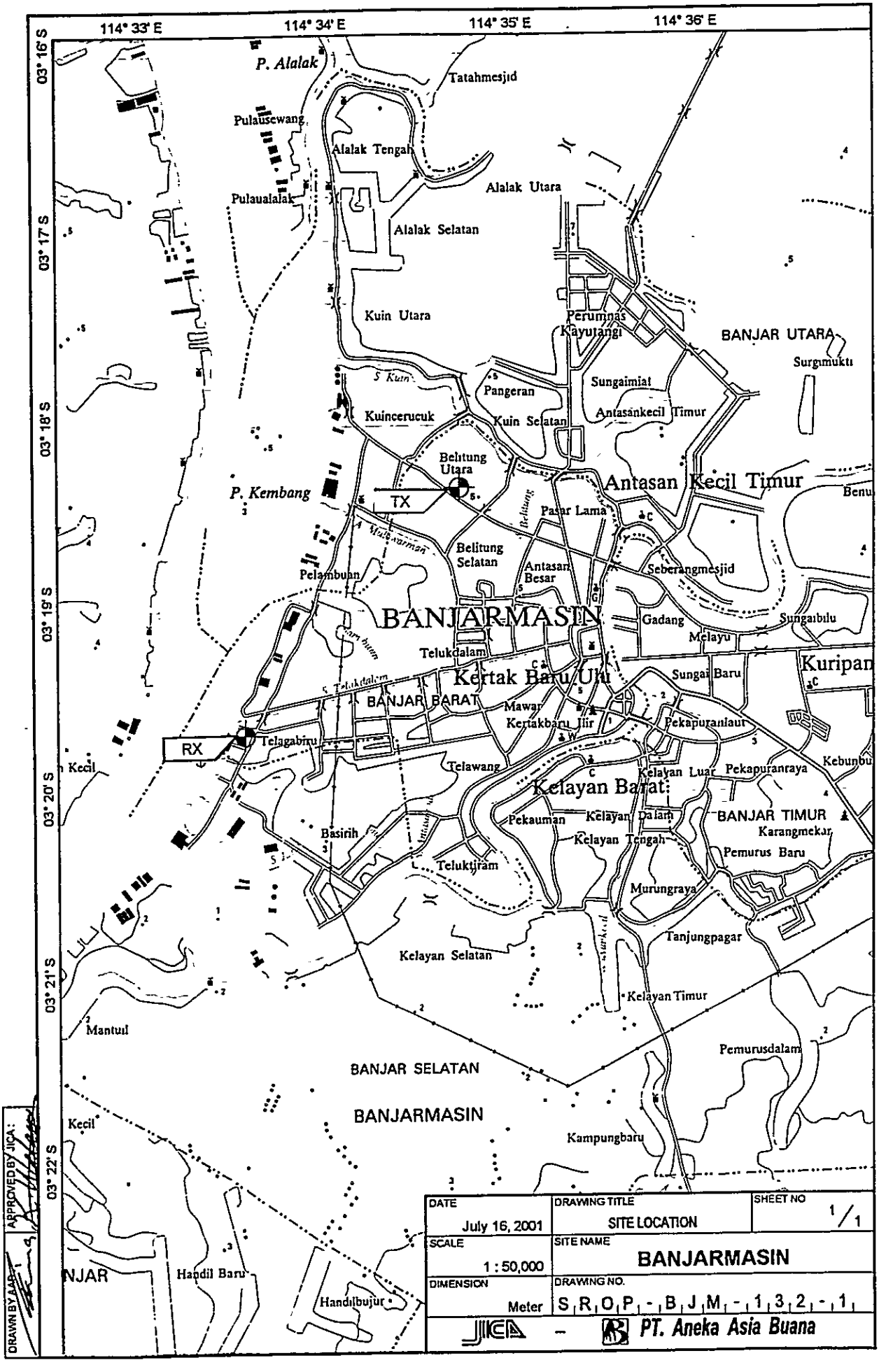
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Banjarmasin

BJM-132-(1/1)

Call Sign : Mobile Service : PKG
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	456,0	A1A	1000		
2	500,0	A1A	1000		
3	4 238,0	A1A	1000		
4	6 337,0	A1A	1000		
5	8.457,0	A1A	1000		
6	12 690,0	A1A	1000		
7	2 182,0	J3E	1000		
8	3 180,0	J3E	1000		
9	4 387,0	J3E	1000		
10	6 215,0	J3E	1000		
11	6 504,0	J3E	1000		
12	6 510,0	J3E	1000		
13	8 764,0	J3E	1000		
14	13 110,0	J3E	1000		
	VHF Service				
15	Channel-16	G3E	50		
16	Channel-26	G3E	50		
	Fix Service				
17	5 316,0	J3E	1000		
18	6.926,0	J3E	1000		
19	8.110,0	J3E	1000		
20	9 110,0	J3E	1000		
21	9.925,0	J3E	1000		
22	11.060,0	J3E	1000		
23	14.410,0	F1B / J3E	1000		

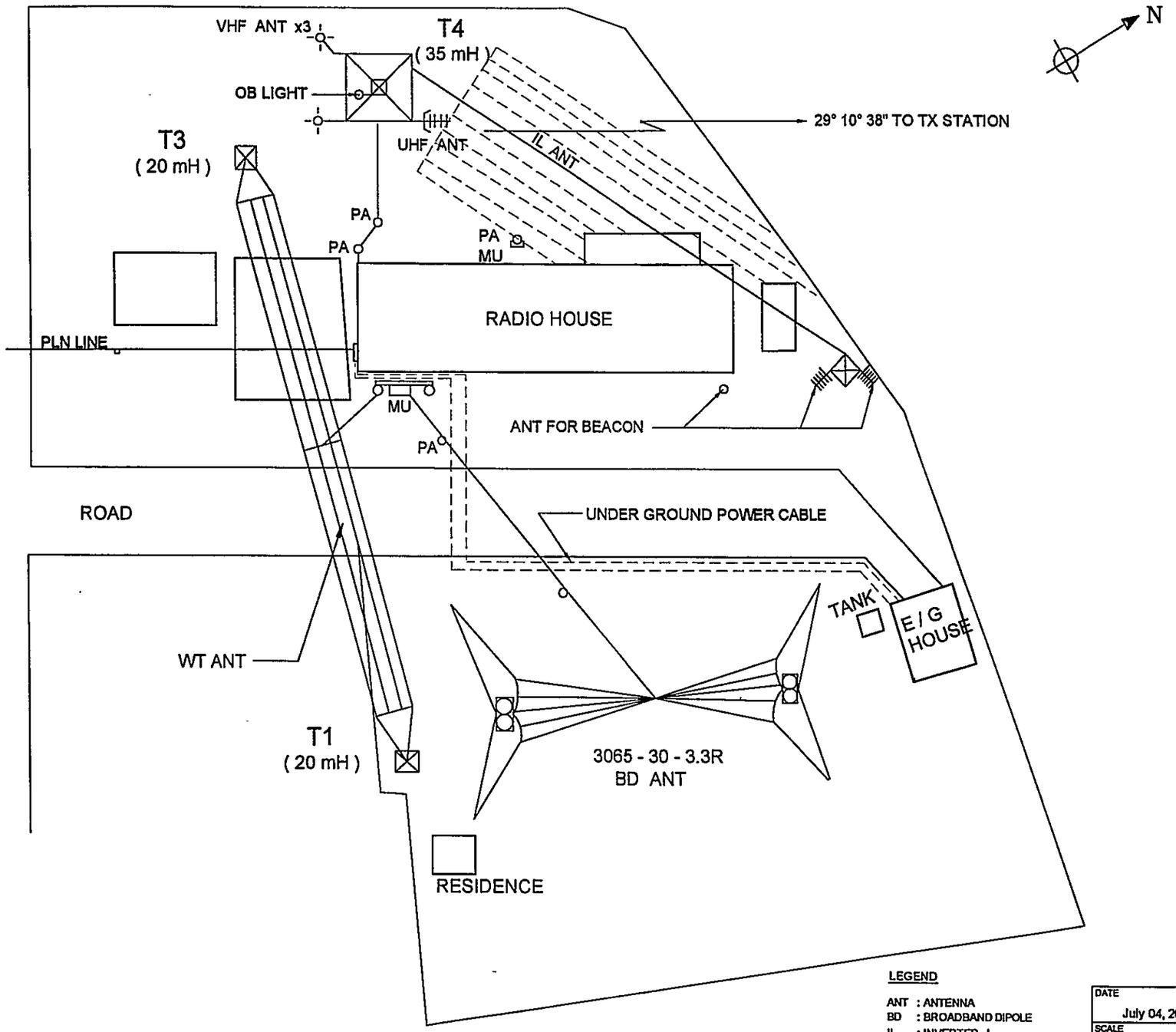


APPROVED BY JICA :

DRAWN BY AAP

DATE: July 16, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 50,000	SITE NAME: BANJARMASIN	
DIMENSION: Meter	DRAWING NO.: S R O P - B J M - 1 3 2 - 1	

JICA – PT. Aneka Asia Buana



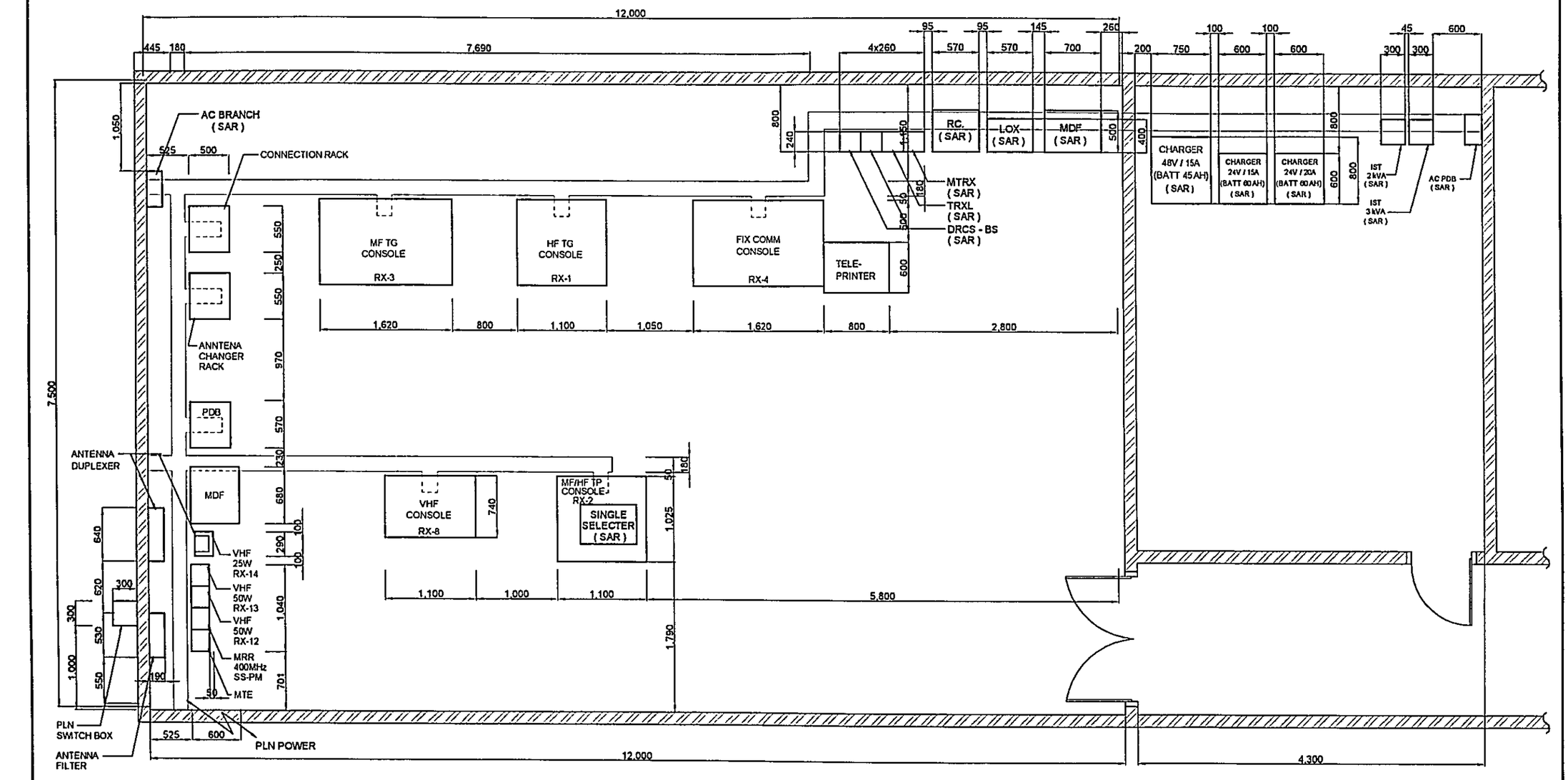
LEGEND

ANT : ANTENNA
BD : BROADBAND DIPOLE
IL : INVERTED - L
MU : MATCHING UNIT
PA : PANZER MAST
UHF : ULTRA HIGH FREQUENCY
VHF : VERY HIGH FREQUENCY
WT : WIRE T TYPE

DRAWN BY AAB | APPROVED BY JICA:

DATE: July 04, 2001	DRAWING TITLE: ANTENNA LAYOUT FOR RX STATION	SHEET NO.: 1/1
SCALE: 1 : 500	SITE NAME: BANJARMASIN	
DIMENSION: Millimeter	DRAWING NO.: SRJOP-BJM-132-2R	

JICA – PT. Aneka Asia Buana



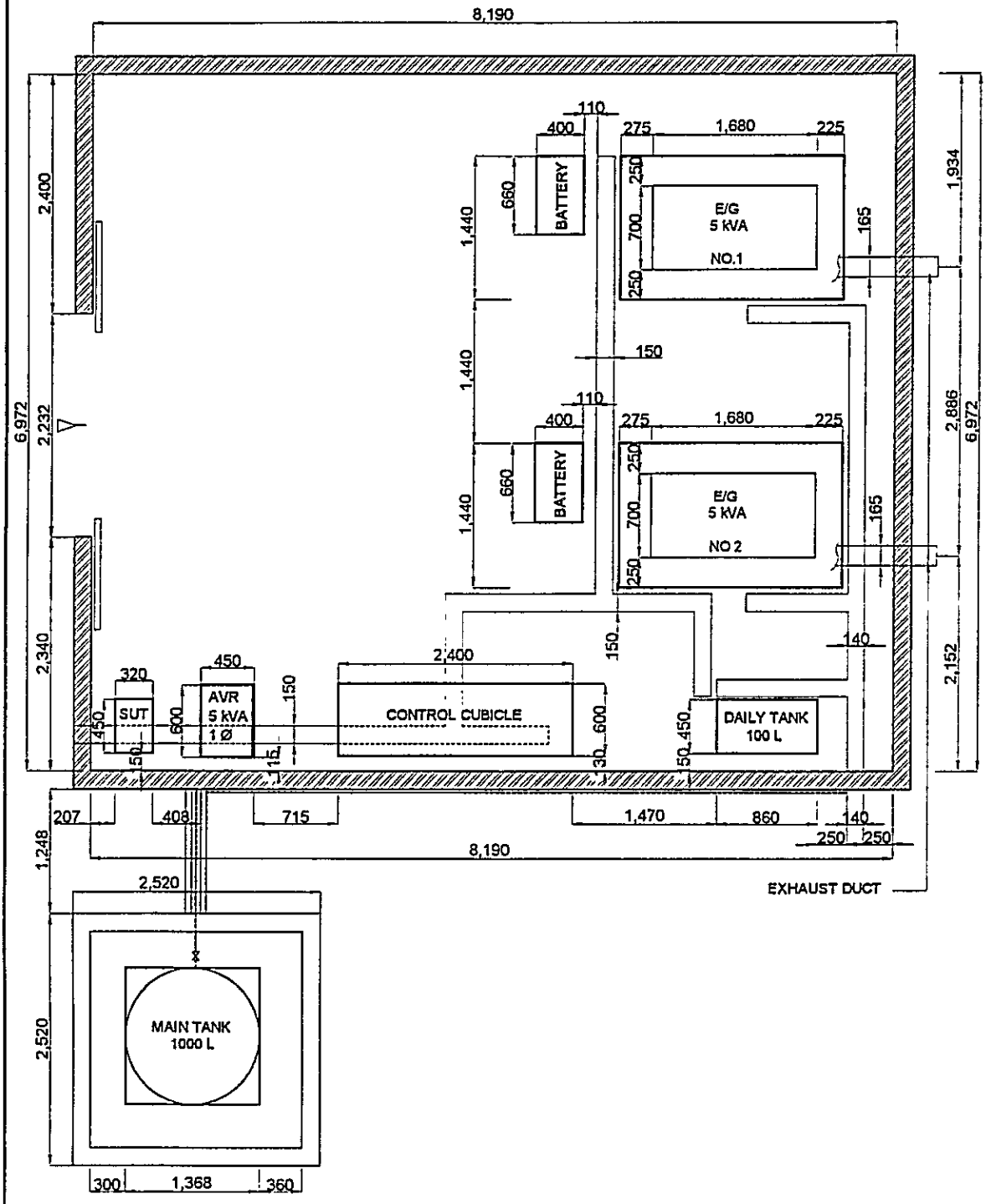
LEGEND

AC	ALTERNATING CURRENT	PDB	POWER DISTRIBUTION BOARD
FIX	FIX COMMUNICATION	RX	REICEVER
HF	HIGH FREQUENCY	TX	TRANSMITER
IST	ISOLATION TRANSFORMER	TG	TELEGRAPHY
KVA	KILO VOLT AMPERE	TP	TELEPHONY
MDF	MAIN DISTRIBUTION FRAME	V	VOLT
MRR	MULTIPLEX RADIO	VHF	VERY HIGH FREQUENCY
MF	MEDIUM FREQUENCY		

DRAWN BY AAB APPROVED BY JICA

DATE: July 04, 2001	DRAWING TITLE: EQUIPMEN FLOOR LAYOUT FOR RX STATION	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: BANJARMASIN	
DIMENSION: Millmeter	DRAWING NO.: SROP-BJM-132-3R	

JICA – PT. Aneka Asia Buana



LEGEND

E/G : ENGINE GENERATOR
SUT : STEP - UP TRANSFORMER
AVR : AUTOMATIC VOLTAGE REGULATOR
kVA . KILO VOLT AMPERE
L : LITER
Ø : PHASE

DATE: July 04, 2001	DRAWING TITLE: E/G FLOOR LAYOUT FOR RX STATION	SHEET NO: 1/1
SCALE: 1 : 60	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,B,J,M,-,1,3,2,-,4,R	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA

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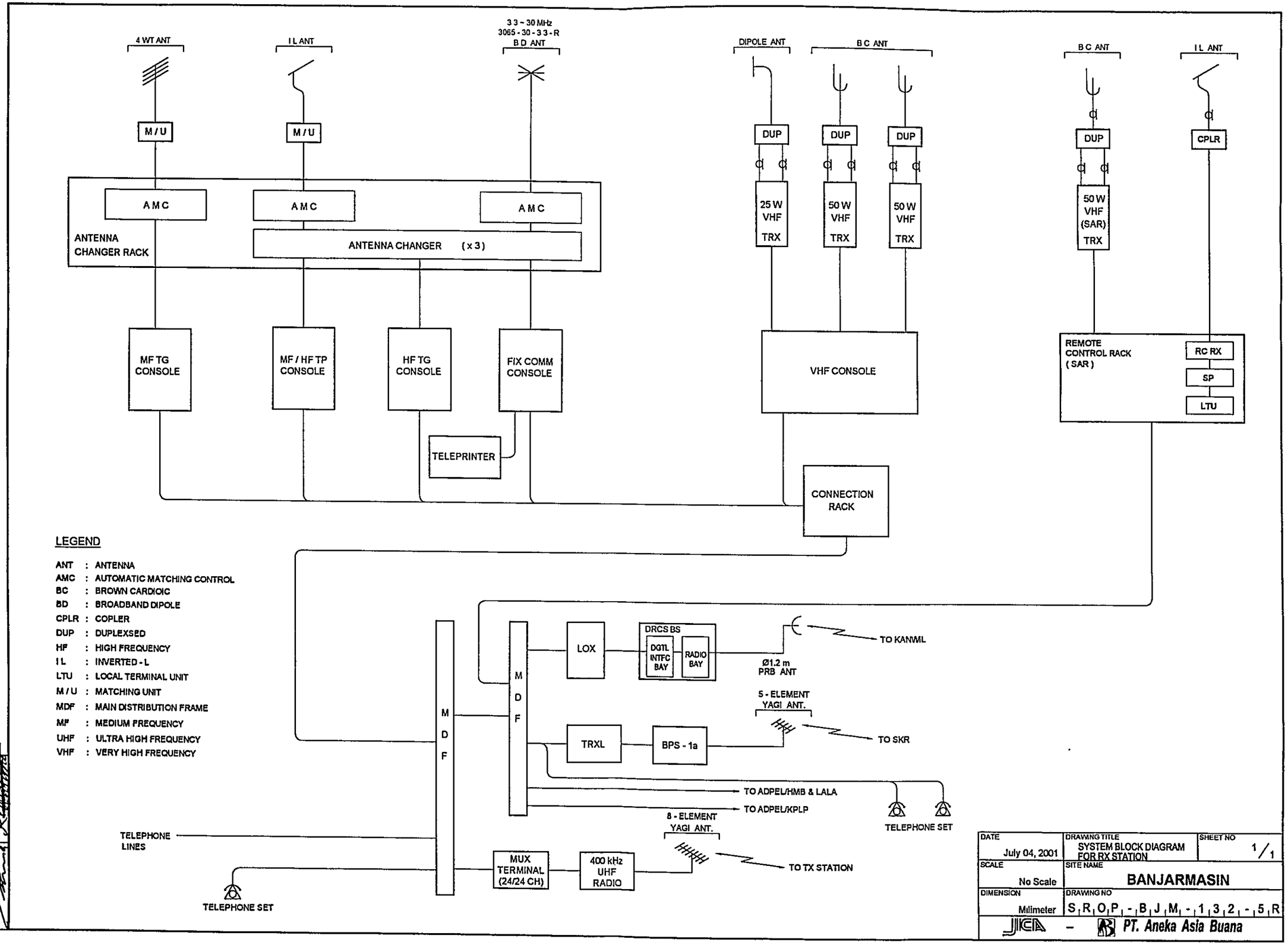

DRAWN BY A&B

APPROVED BY JICA

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SCALE: No Scale	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO: SROP-BJM-132-5R	

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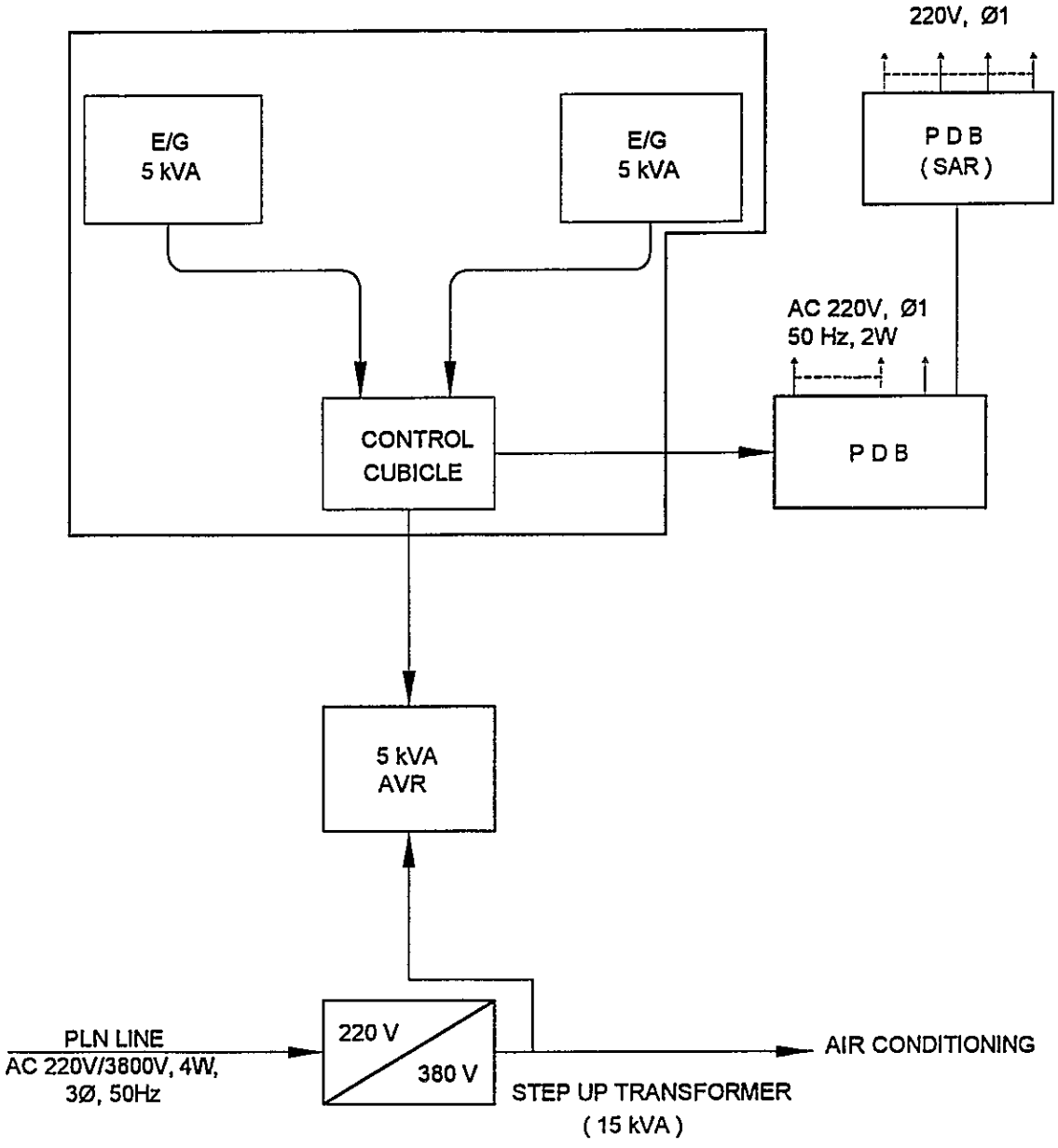


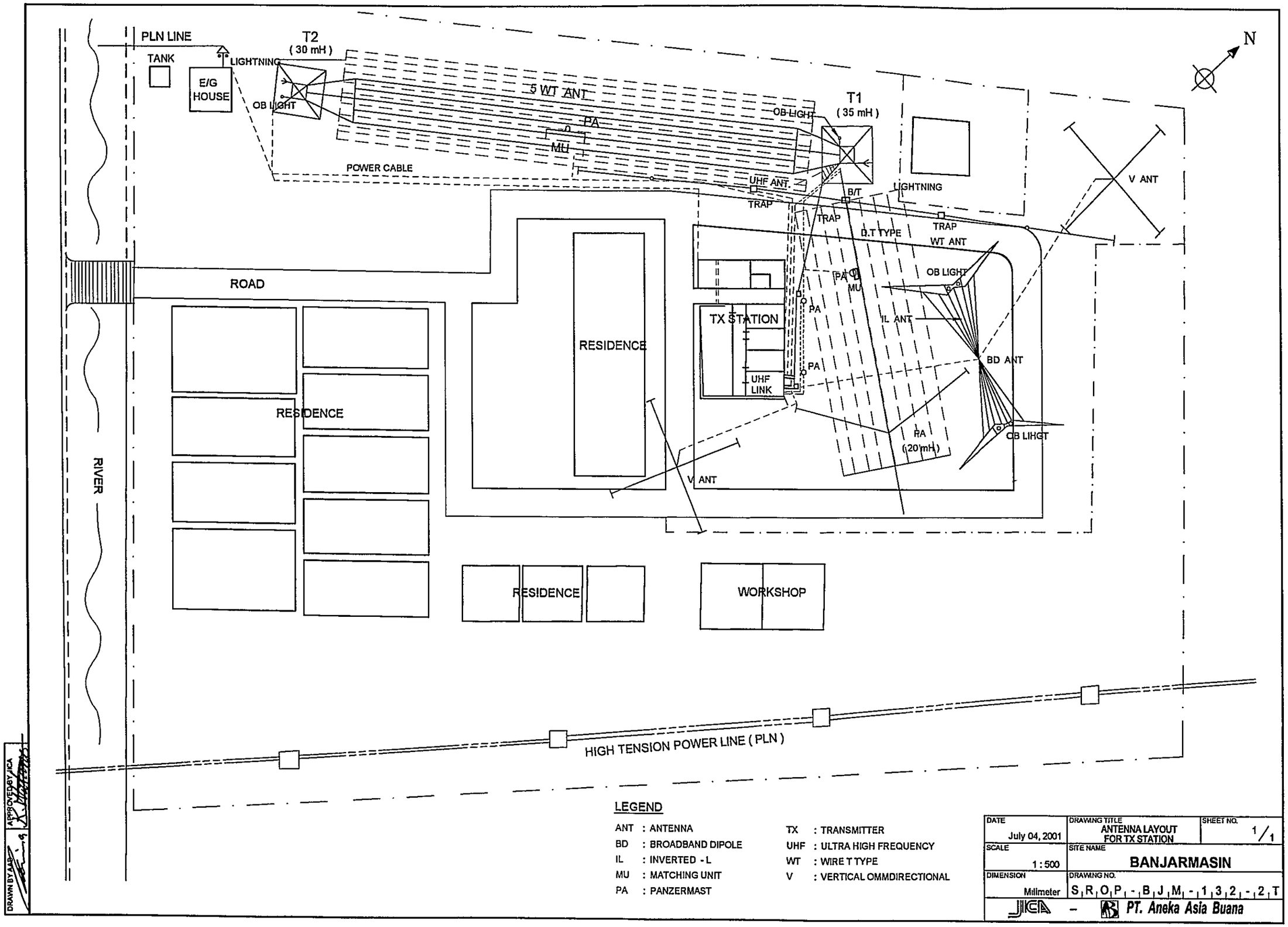
LEGEND

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: July 04, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM FOR RX STATION	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,B,J,M -,1,3,2,-,6,R	
JICA –	PT. Aneka Asia Buana	



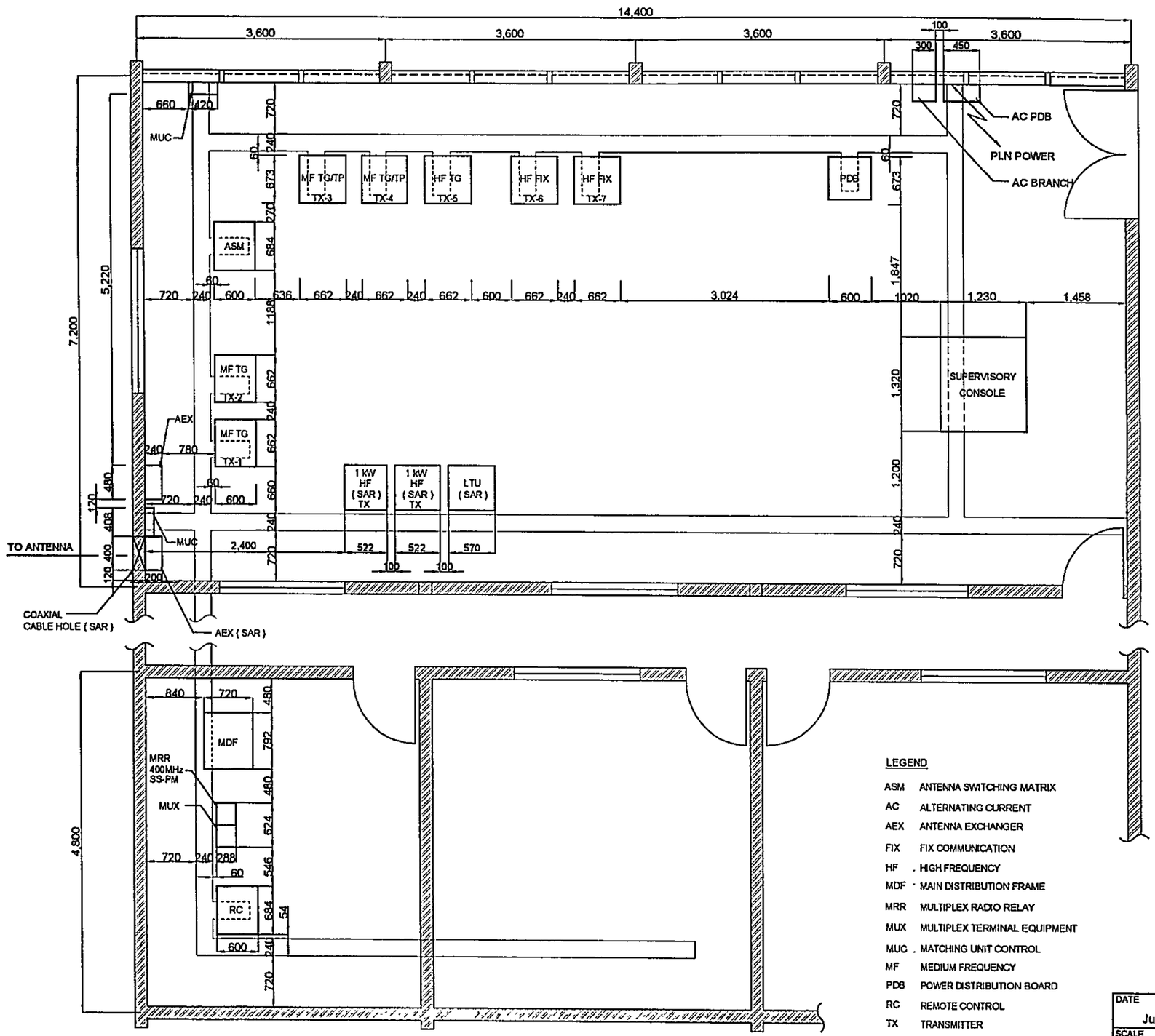
LEGEND

ANT	: ANTENNA	TX	: TRANSMITTER
BD	: BROADBAND DIPOLE	UHF	: ULTRA HIGH FREQUENCY
IL	: INVERTED - L	WT	: WIRE T TYPE
MU	: MATCHING UNIT	V	: VERTICAL OMMDIRECTIONAL
PA	: PANZERMAST		

DRAWN BY AAB | APPROVED BY JICA

DATE: July 04, 2001	DRAWING TITLE: ANTENNA LAYOUT FOR TX STATION	SHEET NO.: 1/1
SCALE: 1 : 500	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: SROP-BJM-132-2T	

JICA – PT. Aneka Asia Buana



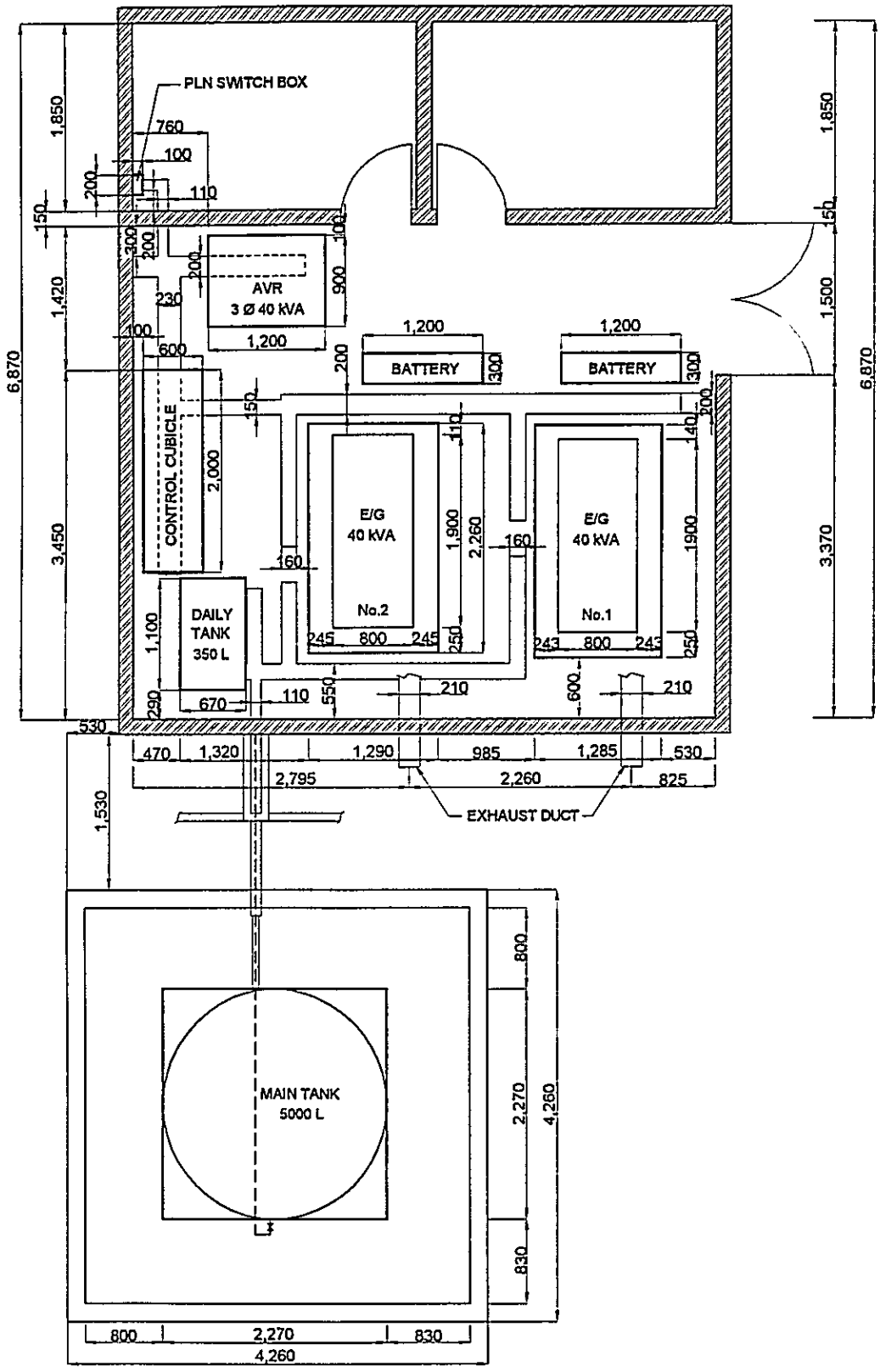
LEGEND

ASM	ANTENNA SWITCHING MATRIX
AC	ALTERNATING CURRENT
AEX	ANTENNA EXCHANGER
FIX	FIX COMMUNICATION
HF	HIGH FREQUENCY
MDF	MAIN DISTRIBUTION FRAME
MRR	MULTIPLEX RADIO RELAY
MUX	MULTIPLEX TERMINAL EQUIPMENT
MUC	MATCHING UNIT CONTROL
MF	MEDIUM FREQUENCY
PDB	POWER DISTRIBUTION BOARD
RC	REMOTE CONTROL
TX	TRANSMITTER
TG	TELEGRAPHY
TP	TELEPHONY
V	VOLT

DRAWN BY AAB

APPROVED BY JICA

DATE: July 04, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT FOR TX STATION	SHEET NO.: 1/1
SCALE: 1 : 50	SITE NAME: BANJARMASIN	
DIMENSION: Millimeter	DRAWING NO: SROP-BJM-132-3T	
JICA -	PT. Aneka Asia Buana	



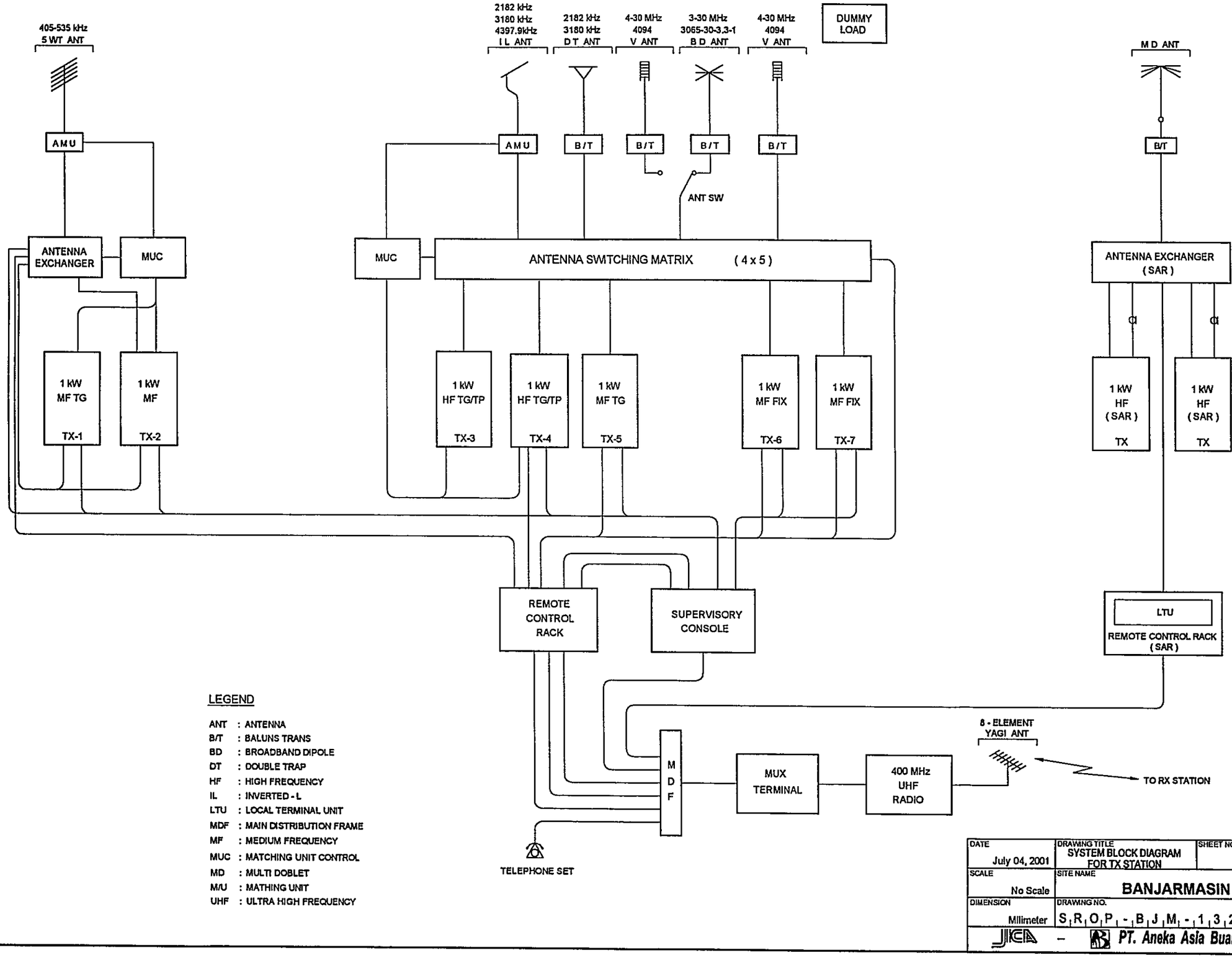
LEGEND

E/G : ENGINE GENERATOR
kVA : KILO VOLT AMPERE
AVR : AUTOMATIC VOLTAGE REGULATOR
L : LITER
Ø : PHASE

DATE: July 04, 2001	DRAWING TITLE: E/G FLOOR LAYOUT FOR TX STATION	SHEET NO: 1/1
SCALE: 1 . 60	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,B,J,M,-,1,3,2,-,4,T	
JICA –	PT. Aneka Asia Buana	

APPROVED BY:JICA

DRAWN BY:AAB



LEGEND

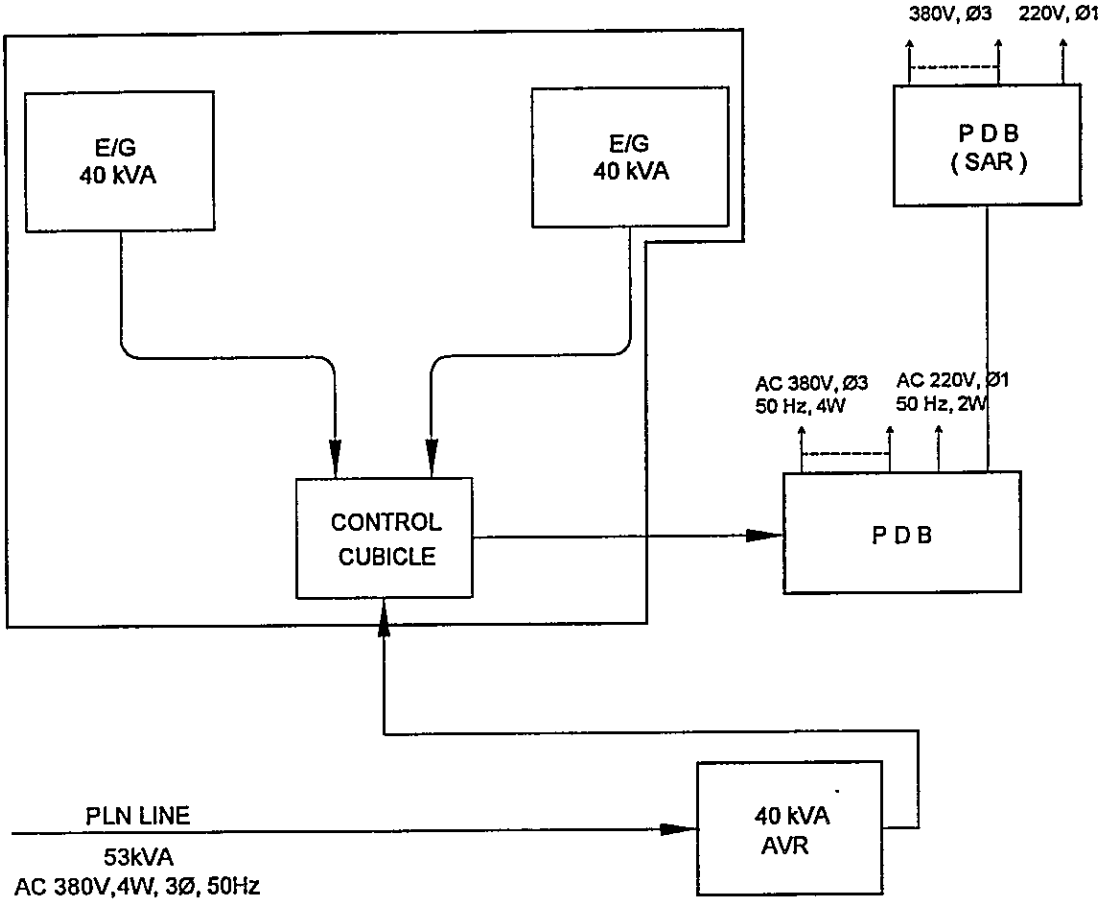
ANT	: ANTENNA
B/T	: BALUNS TRANS
BD	: BROADBAND DIPOLE
DT	: DOUBLE TRAP
HF	: HIGH FREQUENCY
IL	: INVERTED - L
LTU	: LOCAL TERMINAL UNIT
MDF	: MAIN DISTRIBUTION FRAME
MF	: MEDIUM FREQUENCY
MUC	: MATCHING UNIT CONTROL
MD	: MULTI DOBLET
M/U	: MATHING UNIT
UHF	: ULTRA HIGH FREQUENCY

APPROVED BY JICA :

DRAWN BY AAB

DATE: July 04, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM FOR TX STATION	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO.: SRJOP-BJM-132-5T	

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 6, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM FOR TX STATION	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BANJARMASIN	
DIMENSION: Milimeter	DRAWING NO: SROP-BJM-132-6T	
JICA –	PT. Aneka Asia Buana	

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

4th-A Class Coast Station

Kota Baru

(Coast Station No. 133)

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	KOTA BARU		
CLASS	4th-A	NO.	133

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				116° 14′ 00″ E	03° 13′ 50″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to B. Masin	[Taking time	1:30 hr]	☐ Highway	☐ Heavy	☐ Hotel	
By Air	to K. Baru	[Taking time	0:30 hr.]	☑ Paved	☐ Medium	☑ Motel	
By Car	to Location	[Taking time.	1.00 hr.]	☐ Unpaved road	☑ Light		
					☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G	Existing Power Conditions	
Voltage	V	V	Good	Bad
Phase			☐	☐ Power Supply System
Wire			☐	☐ Operations of E/G
kVA			☐	☐ Operations of AVR

Quality of PLN source			Capacity of fuel for engine	
Fluctuations	V ± %		Day tank	Liter
Availability of power per day		Hours	Main tank	k Liter
Power interruption /month		Times	**E/G Stand-by System**	
Total interpt. hours /month		Hours	☐ Single System	
Max. interpt. hours at once		Hours	☐ Dual System	

4. OPERATION AND MAINTENANCE

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

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

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

5. PERSONNEL FORMATIONS

	TX/RX	
Chief		
Operator (skilled)	0	0
Technician (skilled)	0	0
Administrator		
Total		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	KOTA BARU		
CLASS	4th-A	NO.	133

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: Kota Baru

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

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

OPERATION SCHEDULE (FREQUENCIES)

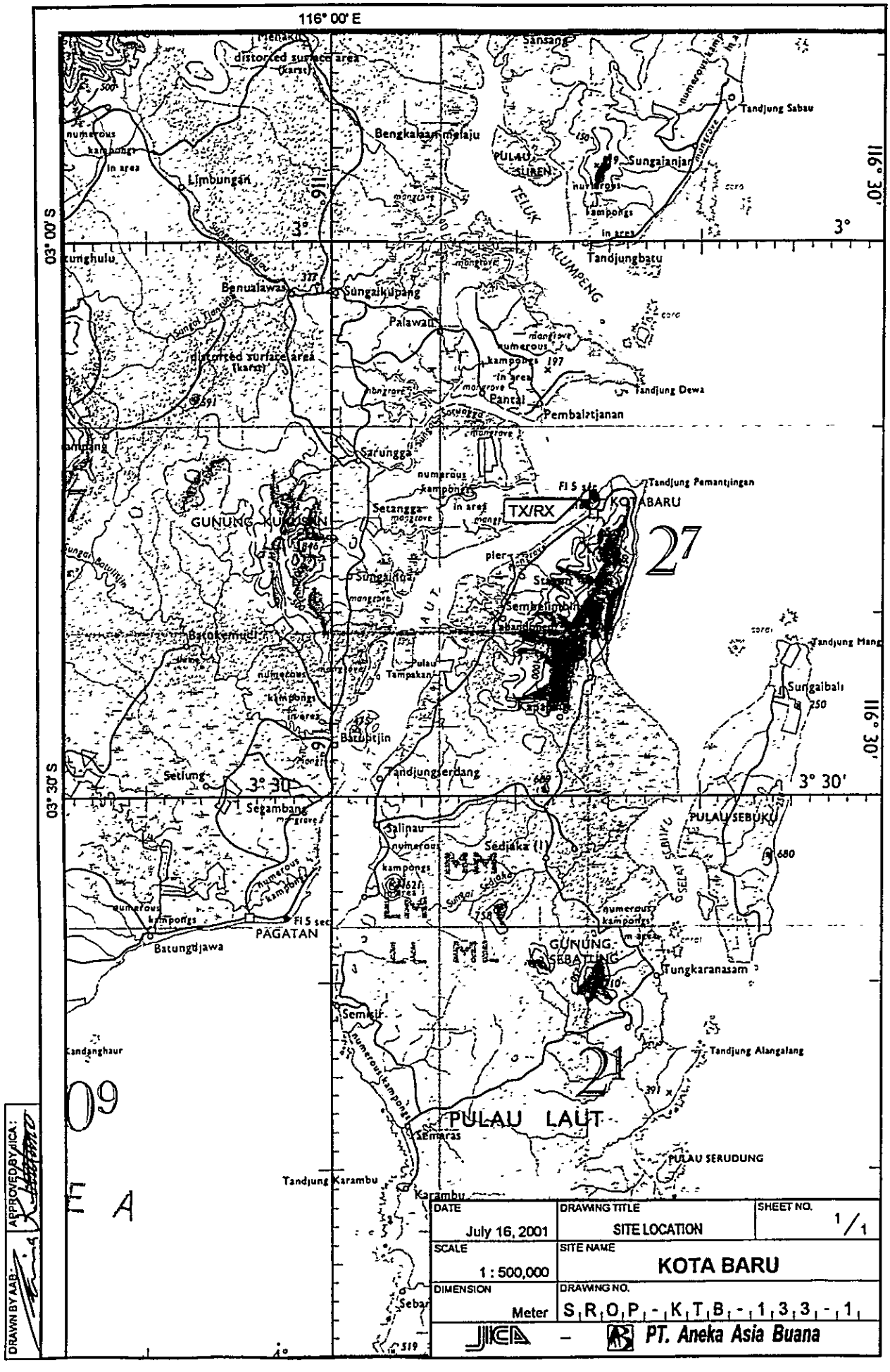
Site Name: Kota Baru

KTB-133-(1/1)

Call Sign : Mobile Service :
Fix Service :

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

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



DATE: July 16, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO.: 1/1
SCALE: 1 : 500,000	SITE NAME: KOTA BARU	
DIMENSION: Meter	DRAWING NO.: S-R-O-P-K-T-B-1-3-3-1	

JICA – PT. Aneka Asia Buana

DRAWN BY AAB: APPROVED BY JICA:

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

4th-A Class Coast Station

Sampit

(Coast Station No. 134)

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	SAMPIT		
CLASS	4th-A	NO.	134

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. A. Yani Sampit	531-21066		112° 57′ 24″ E	02° 33′ 26″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to B. Masin	[Taking time.	1:30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Air	to Sampit	[Taking time:	0 30 hr.]	☑ Paved	☐ Medium	☐ Motel	
By Car	to Location	[Taking time	0 30 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	M		Telephone Lines	☐ ☑ Feeder Cable Way
Land area	3,740 m²		☑ 1 Lines	☐ ☑ City water

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	1	
Wire	2	
kVA	0,9	

Quality of PLN source		
Fluctuations	V ± %	
Availability of power per day	24 Hours	
Power interruption /month	10 Times	
Total interpt. hours /month	2.5 Hours	
Max. interpt. hours at once	1 Hours	

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

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

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

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow

Examples of major failure

Sufficiency of spares

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

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	SAMPIT		
CLASS	4th-A	NO.	134

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	213		5	1996	2,608		312
1997					1992	386		43	1997			
1998					1993	674		108	1998			
1999					1994	188		243	1999			
2000					1995	1,909		343	2000			

7. COMMENTS

Suggestion	Request fence for office building due to security reason
Remarks	

INVENTORY

Site Name: Sampit

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		Transceiver	NTD-177	BS-12236	JRC	1972			Damaged
2		Transceiver	FT-300C	08207010-0D	Yaesu	1982			Damaged
3		Transceiver	IC-M700	48004	Icom	1996			Damaged
1-2		**Receiver**							
1		MF/HF Receiver	FRG-8800	5D-030708	Yaesu	1985			Damaged
2		MF/HF Receiver	FRG-7700	MIH-100295	Yaesu	1985			Damaged
1-3		**VHF System**							
1		VHF Transceiver	JHV-207PS	CD-56512	JRC	1973			Damaged
2		VHF Transceiver	JHV-207PS	CD-26520	JRC	1973			Damaged
3		VHF Transceiver	FTC-1540A	8036026	Yaesu	1983			Damaged
4		VHF Transceiver	IC-M58	13422	Icom	1996			Damaged
5		VHF Transceiver	RAY-53	098539	Raythron	1999			Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		Dipole Antenna (6 unit)							
2		Receiving Antenna (2 unit)							
3		Dipole Vertical Antenna (2 unit)	AE-183						
4		Yagi Antenna (1 unit)							
5		Vertical Antenna (1 unit)							
2-2		**Antenna Selector**							
1		Antenna Coupler	XW-49	BP-73280	JRC	1972			Damaged
2		Antenna Coupler	XW-49	BP-73281	JRC	1972			Damaged
3		**Power Supply Equipment**							
3-1		**UPS**							
1		Accu Changer							
		a. 110V input/ 0-40V /30 ampers		8134	Stanly				Damaged
		b. 110V input/1x24V output	SM-2450	103603	Delta				Good
		c. 120V input/6V-120V			Yoko				Damaged

INVENTORY

Site Name: Sampit

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		**Measuring Equipment**							
1		Digital Multi Meter	-	STM-9050	Taeno	1994			Damaged
2		Circuit Tester	320	JISC-1202	Y'hama	1972			Damaged
5		**Others**							
1		Air Conditioner	Cool-Wood2200		Hitachi	1973			Damaged
2		Dummy Load	AE-234	-	JRC	1972			Damaged
3		Fan / 220V			N'ional	1992			Damaged
4		Fan / 220V			M'pion	1972			Damaged
5		Clock			Saiko	1972			Damaged
6		Clock			Saiko	1995			Damaged

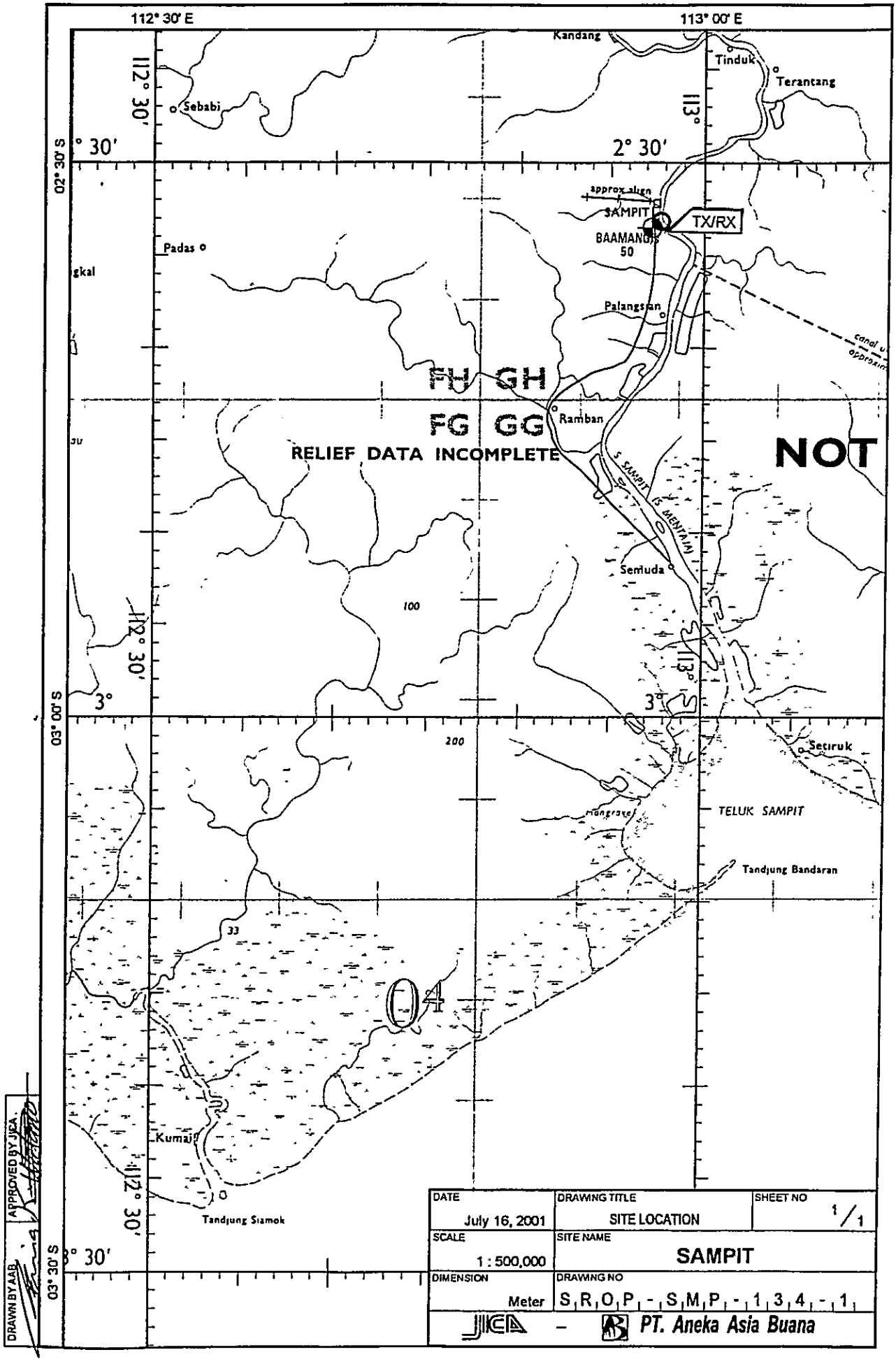
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Sampit

SMP-134-(1/1)

Call Sign : Mobile Service : PKG.2
Fix Service : 8AN7

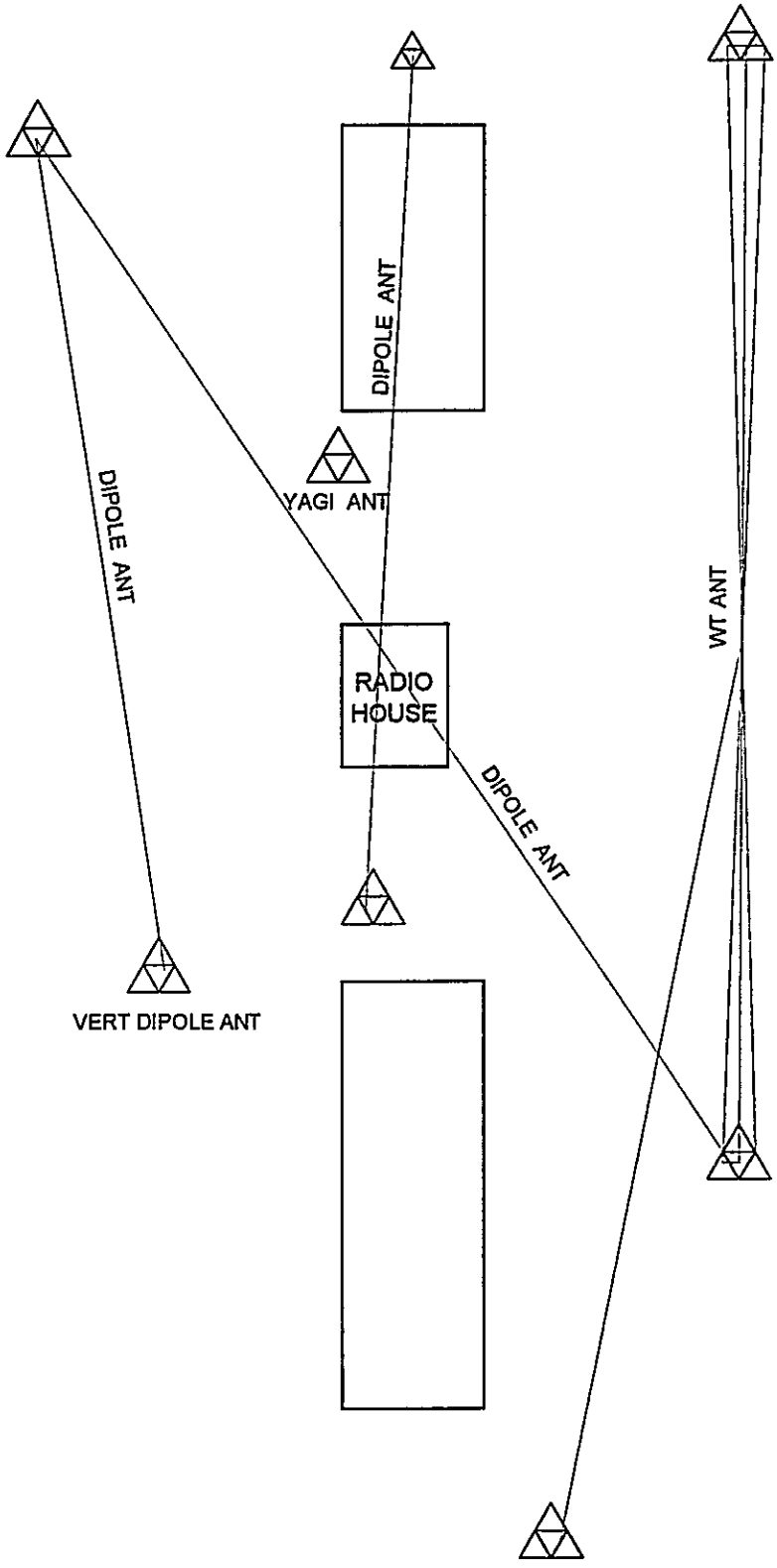
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	3 180,0	J3E	100		
3	6 215,0	J3E	100		
4	6 510,0	J3E	100		
	VHF Service				
5	Channel-10	G3E	25		
6	Channel-12	G3E	25		
7	Channel-14	G3E	25		
8	Channel-16	G3E	25		
	Fix Service				
9	6 926,0	J3E	100		
10	5 316,0	J3E	100		
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



DATE: July 16, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: SAMPIT	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,S,M,P,-,1,3,4,-,1	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



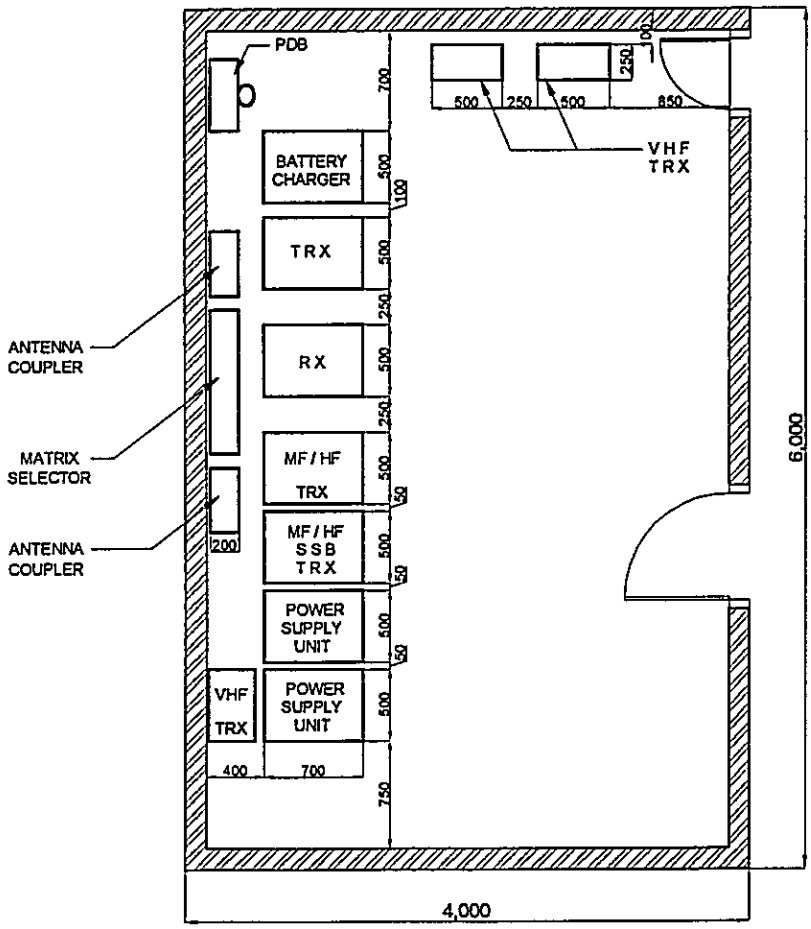
LEGEND

ANT : ANTENNA
WT : WIRE T TYPE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 04, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: SAMPIT	
DIMENSION: Millimeter	DRAWING NO: SROP-SMP-134-2	
JICA - PT. Aneka Asia Buana		



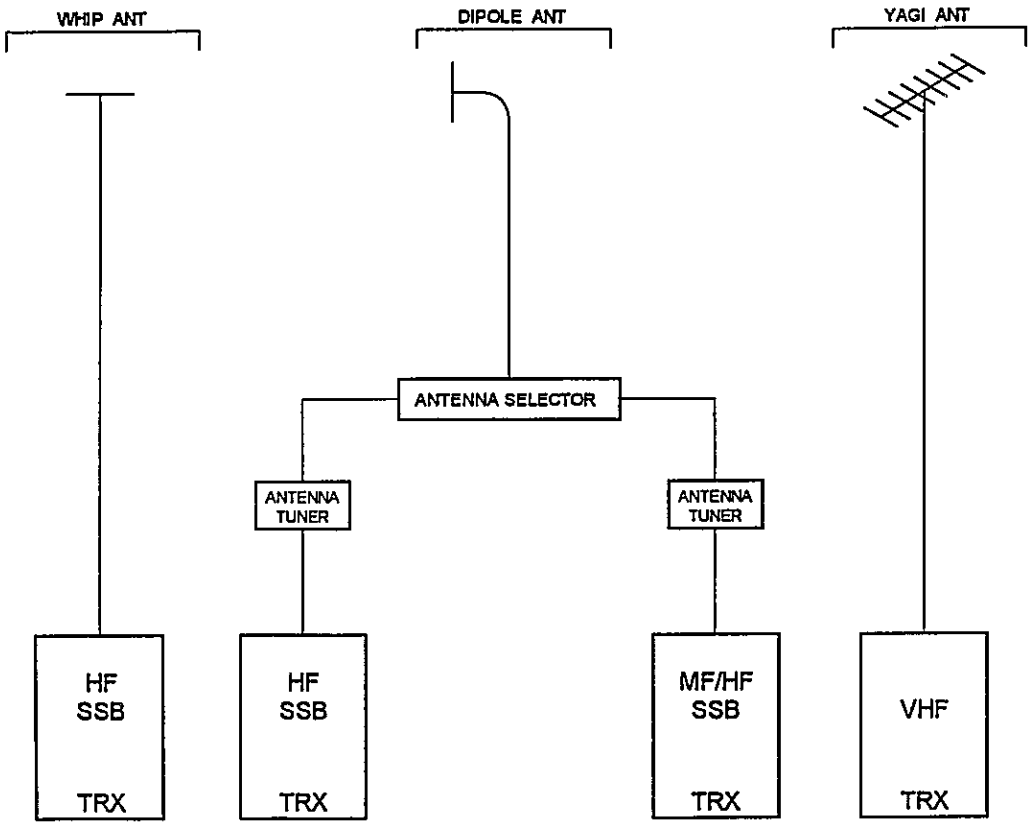
LEGEND

AVR - AUTOMATIC VOLTAGE REGULATOR
HF HIGH FREQUENCY
MF MEDIUM FREQUENCY
PDB - POWER DISTRIBUTION BOARD
RX RECEIVER (ING)
TX TRANSMITTER (ING)
TRX - TRANSCEIVER (ING)
VHF VERY HIGH FREQUENCY

APPROVED BY JICA :

DRAWN BY AAB :

DATE: July 04, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 50	SITE NAME: SAMPIT	
DIMENSION: Milimeter	DRAWING NO: SROP - SMP - 134 - 3	
JICA -	PT. Aneka Asia Buana	



LEGEND

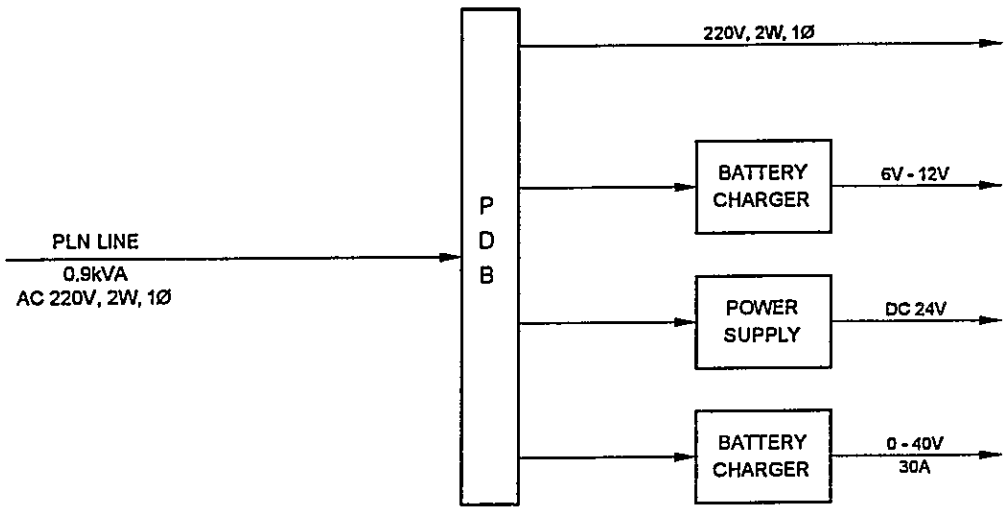
ANT : ANTENNA
HF : HIGH FREQUENCY
MF : MEDIUM FREQUENCY
TRX : TRANSCEIVER (ING)
VHF : VERY HIGH FREQUENCY

DRAWN BY AAB

APPROVED BY JICA

DATE: July 30, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SAMPIT	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,S,M,P,-,1,3,4,-,5,	

JICA – PT. Aneka Asia Buana



APPROVED BY JICA :

DRAWN BY AAB :

LEGEND

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

DATE: July 30, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SAMPIT	
DIMENSION: Milimeter	DRAWING NO.: SROP-SMP-1341-6	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station
Kumai
(Coast Station No. 135)

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	KUMAI		
CLASS	4th-A	NO.	135

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Swadaya Rt. 3	61787		111° 43′ 00″ E	02° 45′ 20″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to B. Masin	[Taking time: 1:30 hr.]	☐ Highway	☐ Heavy	☑ Hotel	
By Air	to Pkl. Bun	[Taking time: 0:45 hr.]	☑ Paved	☐ Medium	☐ Motel	
By Car	to Kumai	[Taking time: 0:30 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		☑ Tide	☐ Lightning system	☑
Altitude	20.50 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	Zinc
Type of ceiling	Triplex
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic

Room Area (m²)	
Operation room	15.75
E / G room	12.00

Remark

3.3 Power Source

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

Quality of PLN source	
Fluctuations	10 V ± 4 %
Availability of power per day	24 Hours
Power interruption /month	10 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	

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure	
Restoration flow	Medium
Examples of major failure	Final Power Transmitter of Marine VHF damaged
Sufficiency of spares	Un-available

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

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

5. PERSONNEL FORMATIONS

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

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	KUMAI		
CLASS	4th-A	NO.	135

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: Kumai

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		MF/HF Transceiver	ICM710	01134	ICOM	1996			Damaged
2		MF/HF Transceiver	ICM710		ICOM	1996			Good
3		MF/HF Transceiver	ICM700		ICOM	1985			Good
1-2		**VHF System**							
1		VHF Transceiver	IC-M58	13423	ICOM	1996			Damaged
2		VHF Transceiver	FTC-1540A	IH120152	Yaesu	1985			Good
2		**Power Supply Equipment**							
2-1		**UPS & AVR**							
1		Power Supply	GSP-3000	51203055	PRC				Good
2		Power Supply	MG-1025		Mirusa				Good
2-2		**Engine Generator**							
1		Engine	TF65H-di	05200-51111	Yanmar				Good
2		Generator 3kVA	FA-3	0469936	Denyo				Good
3		**Others**							
1		Air Conditioner	SRK503CENF-V	523501337BE	Mitsubishi				Good
2		Air Conditioner	SRC503CENF	554101481BE	Mitsubishi				

STATUS OF TROUBLES

SITE NAME : KUMAI **KMI-135-(1/1)**

Item / Equipment	VHF / ICOM IC-M58		
Manufacturer	Icom		
Manufacturer in year	-		
Defective panel / unit	PA 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:			

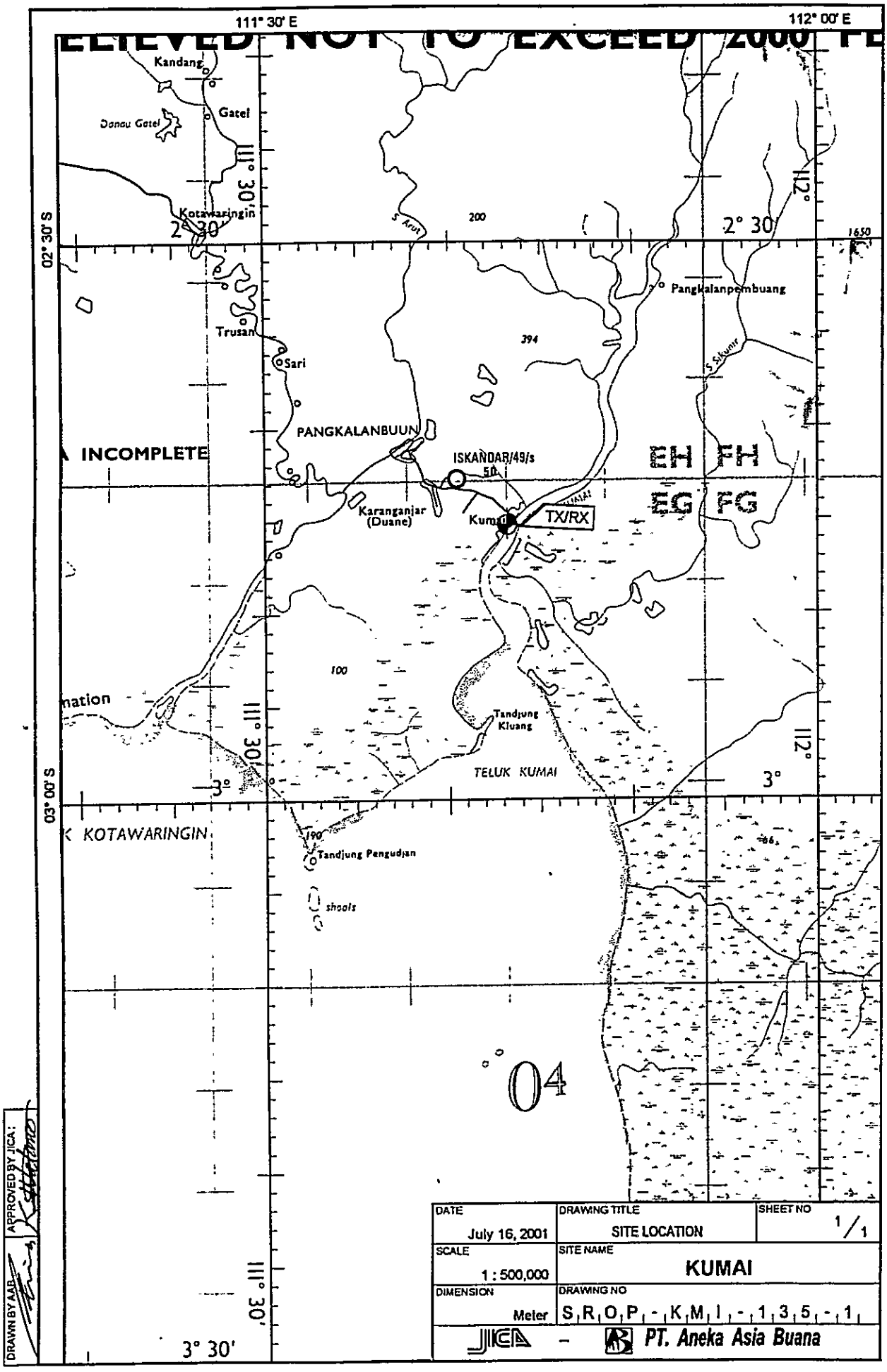
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Kumai

KMI-135-(1/1)

Call Sign : Mobile Service : PKG.30
Fix Service :

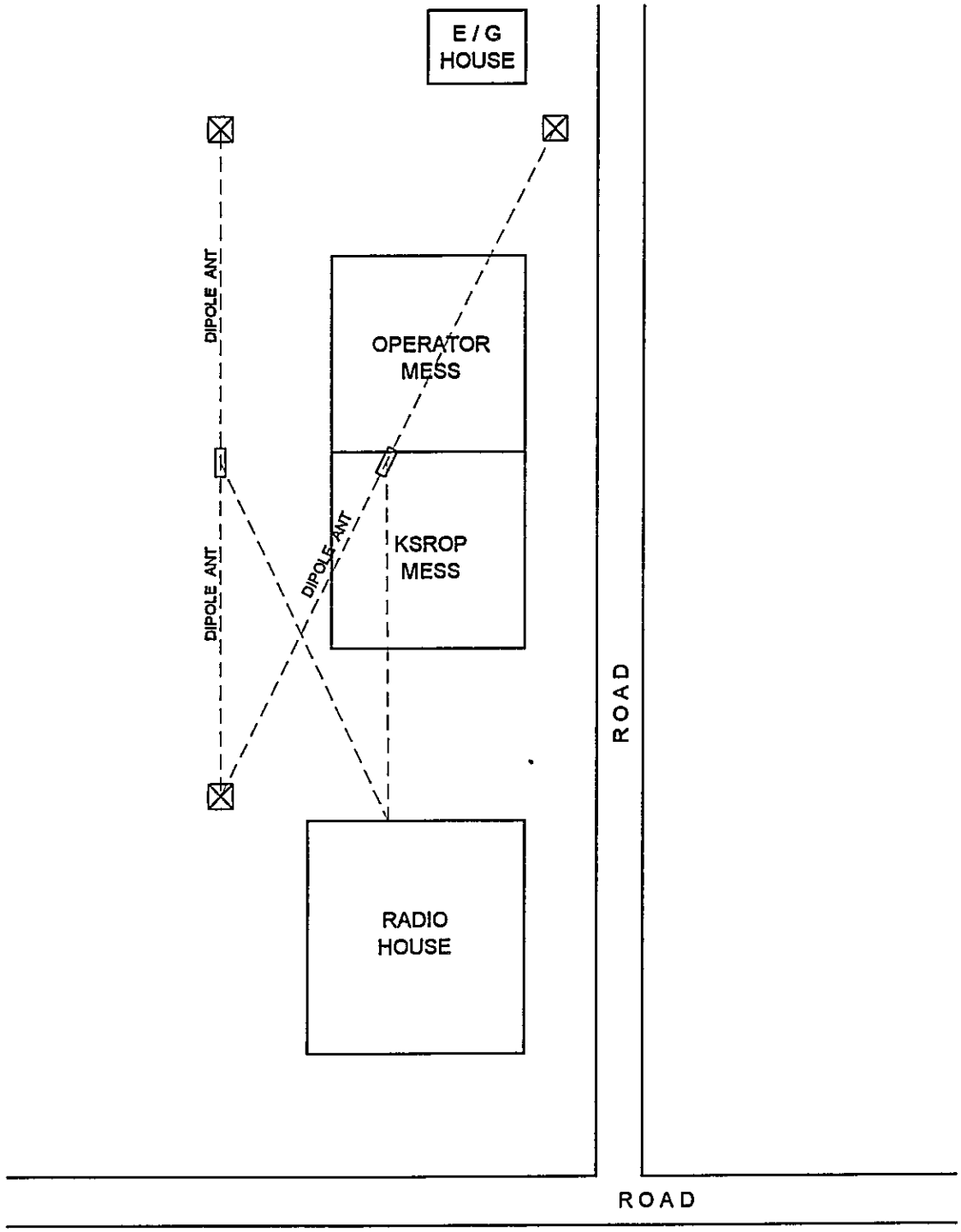
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	3 180,0	J3E	100		
3	6 215,0	J3E	100		
4	6 510,0	J3E	100		
	VHF Service				
5	Channel-16	G3E	25		
6	Channel-20	G3E	25		
7	Channel-26	G3E	25		
	Fix Service				
8	6.926,0	J3E	50		
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



DATE: July 16, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: KUMAI	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,K,M,I,-,1,3,5,-,1	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA:

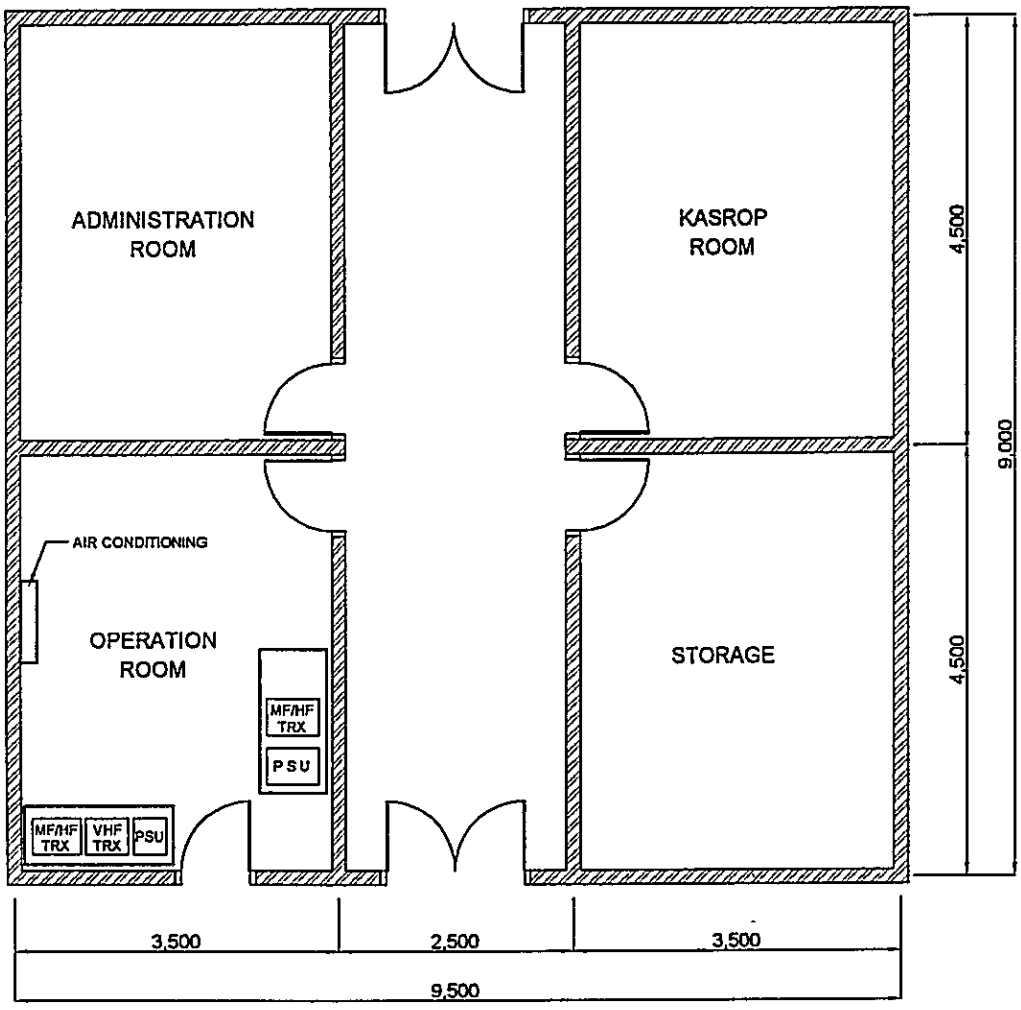
DRAWN BY AAB



DATE: August 01, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 250	SITE NAME: KUMAI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,M,I,-,1,3,5,-,2,	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA



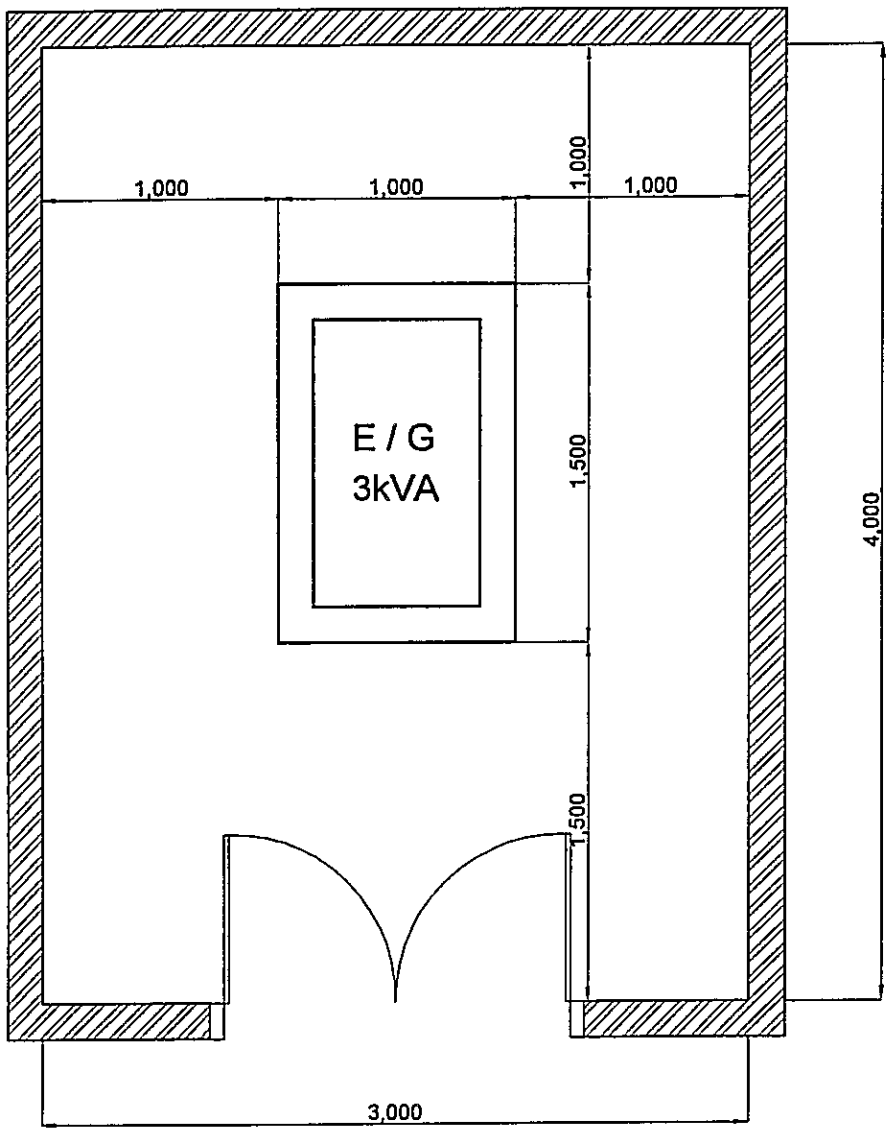
LEGEND

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

APPROVED BY JICA :

DRAWN BY AAB

DATE: August 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 75	SITE NAME: KUMAI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,M,I,-,1,3,5,-,3,	
JICA –	PT. Aneka Asia Buana	



LEGEND

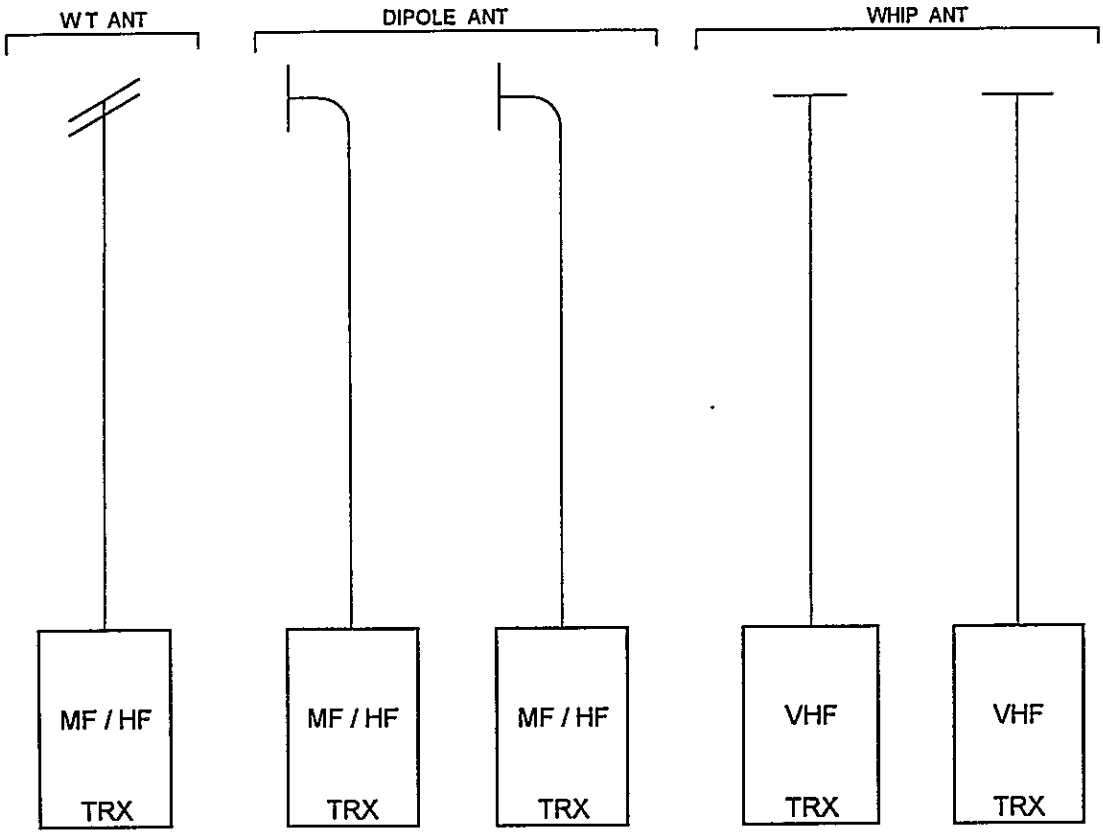
E/G : ENGINE GENERATOR

kVA : KILO VOLT AMPERE

DATE: July 04, 2001	DRAWING TITLE: E/G FLOOR LAYOUT	SHEET NO: 1/1
SCALE: 1 : 30	SITE NAME: KUMAI	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,K,M,I,-,1,3,5,-,4,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA :

DRAWN BY AAB :



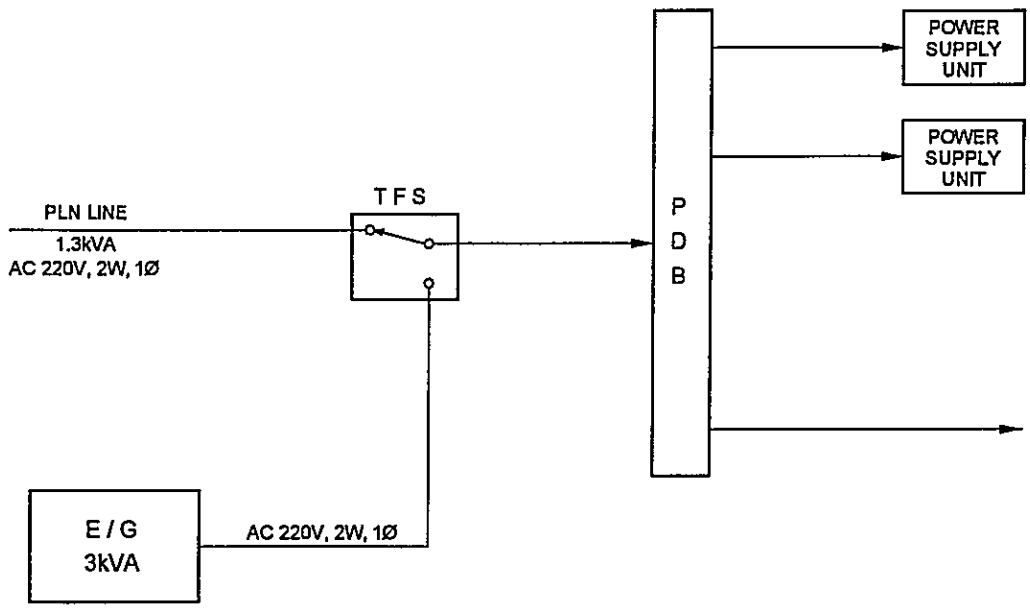
LEGEND

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

DATE: July 30, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO.: 1/1
SCALE: No Scale	SITE NAME: KUMAI	
DIMENSION: Milimeter	DRAWING NO: SROP-KMI-135-5	
JICA – PT. Aneka Asia Buana		

APPROVED BY JICA

DRAWN BY AAB



APPROVED BY JICA

DRAWN BY AAB

LEGEND

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

DATE: July 30, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: KUMAI	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,K,M,I,-,1,3,5,-,6	
JICA – PT. Aneka Asia Buana		

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

4th-A Class Coast Station
Pulang Pisau
(Coast Station No. 136)

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	PULANG PISAU		
CLASS	4th-A	NO.	136

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				114° 15′ 30″ E	02° 44′ 30″ S

2. GENERAL CONDITIONS

Moving from Jakarta			Site Access from Port	Road Traffic	Accommodation	Population
By Air	to B. Masin	[Taking time: 1:30 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Sp. boat	to P. Pisang	[Taking time: 6.00 hr.]	☐ Paved	☐ Medium	☐ Motel	
By Car	to Location	[Taking time: 0:30 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	M		Telephone Lines	☐	☑	Feeder Cable Way
Land area	m²		☐ Lines	☐	☑	City water

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	V	V
Phase		
Wire		
kVA		

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

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

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

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

4. OPERATION AND MAINTENANCE

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

Records of damages		Environmental Conditions	Good	Bad	
☐ Heavy rainfall					
☐ 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		
T o t a l		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	PULANG PISAU		
CLASS	4th-A	NO.	136

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: Pulang Pisau

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

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

OPERATION SCHEDULE (FREQUENCIES)

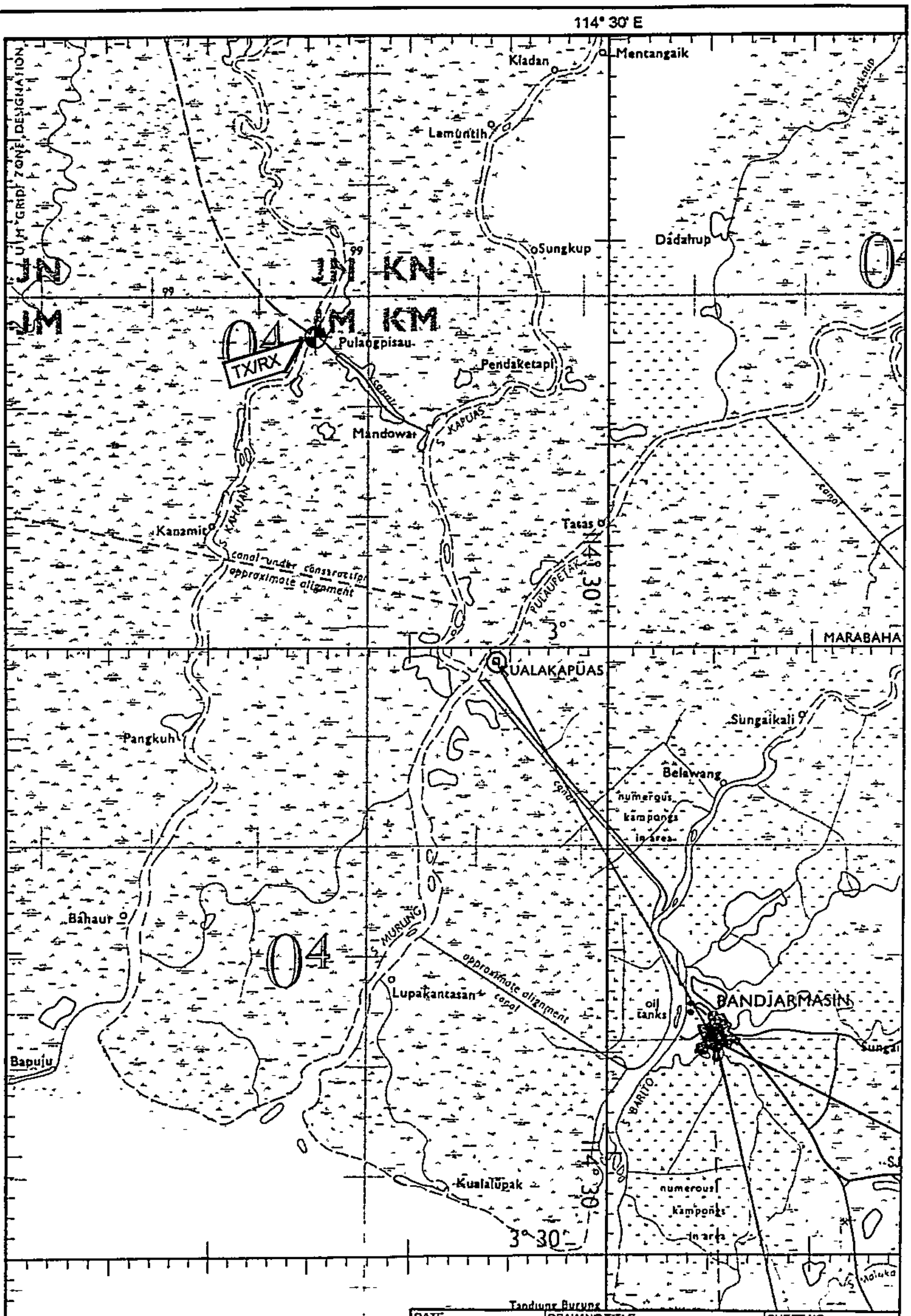
Site Name: Pulang Pisau

PLP-136-(1/1)

Call Sign : Mobile Service :
Fix Service :

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

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


114° 30' E
Kladan
Mentangaik
Lamuntih
Sungkup
Dadahup
UTM GRID ZONE DESIGNATION
JN
JM
KN
KM
04
TX/RX
Pulangpisau
Pendaketapi
Mandowai
KAPUAS
Kanamit
canal under construction approximate alignment
Tatas
PULAUPETAK
MARABAHA
03° 00' S
KUALAKAPUAS
Sungaikali
Pangkuh
Belawang
numerous kampongs in area
Bahaur
MURUNG
Lupakantasan
approximate alignment canal
oil tanks
BANDJARMASIN
Bapuju
BARITO
Kualalupak
numerous kampongs in area
3° 30'
03° 30' S
Tandjung Burung

DATE	DRAWING TITLE	SHEET NO
July 17, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 500,000	PULANG PISAU	
DIMENSION	DRAWING NO.	
Meter	S R O P - P L P - 1 3 6 - 1	

JICA – PT. Aneka Asia Buana

DRAWN BY AAB | APPROVED BY JICA

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

4th-A Class Coast Station
Batulicin
(Coast Station No. 137)

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	BATU LICIN		
CLASS	4th-A	NO.	137

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pel. Samudra No. 126 A, Batu Licin	518-71420		116° 00′ 07″ E	03° 25′ 55″ S

2. GENERAL CONDITIONS

Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Banjarmasin [Taking time: 1:30 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Car to Batu Licin [Taking time: 6.00 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	☑ Reclamation	☐ Ground Subsidence	☑	☐ Grounding system
☐ Valley	☐ Sandy		☑ Ground subsidence	☐	☑ Lightning system
Altitude	M		Telephone Lines	☑	☐ Feeder Cable Way
Land area	m²		☐ Lines	☐	☑ City water

3.2 Building Conditions

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

Room Area (m²)	
Operation room	15.75
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	220 V ± 10 %
Availability of power per day	24 Hours
Power interruption /month	10 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	Liter
Main tank	k Liter

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

Remark

4. OPERATION AND MAINTENANCE

Actions taken in equipment failure

Restoration flow: Repaired by himself

Examples of major failure:

Sufficiency of spares:

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

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	BATU LICIN		
CLASS	4th-A	NO.	137

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: Batulicin

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		**Transmitter**							
1		MF/HF Transceiver	NS-3A	5130379	Furuno	1975			Good
2		HF Transceiver	FTC-1540		Yaesu				Good
1-2		**Receiver**							
1		MF/HF Receiver	FRG-7700	13423	Yaesu				Good
1-3		**VHF System**							
1		VHF Transceiver	FTC-1540A		Yaesu	1985			Good
2		**Tower & Antenna System**							
2-1		**Antenna System**							
1		Antenna Dipole							Good
3		**Power Supply Equipment**							
3-1		**UPS & AVR**							
1		Power Supply	24/12 VDC		Diamond				Good

Banjarmasin

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Batulicin

BTL-137-(1/1)

Call Sign : Mobile Service : PKG.31
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	REMARK
	Mobile Service				
1	2 182,0	J3E	100		
2	6 215,0	J3E	100		
	VHF Service				
3	Channel-16	G3E	50		
4					
5					
6					
7					
8					
9					
10					
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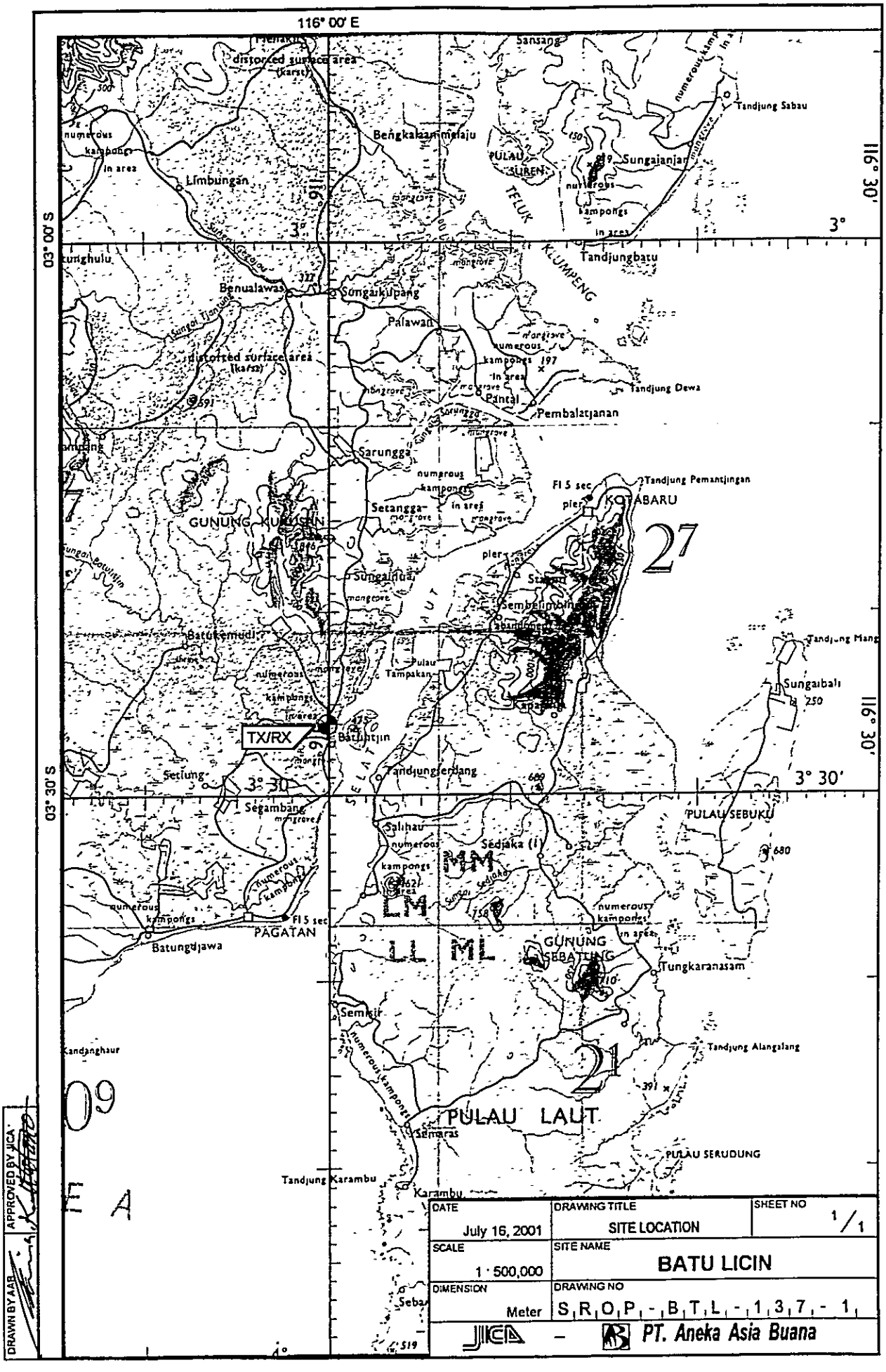
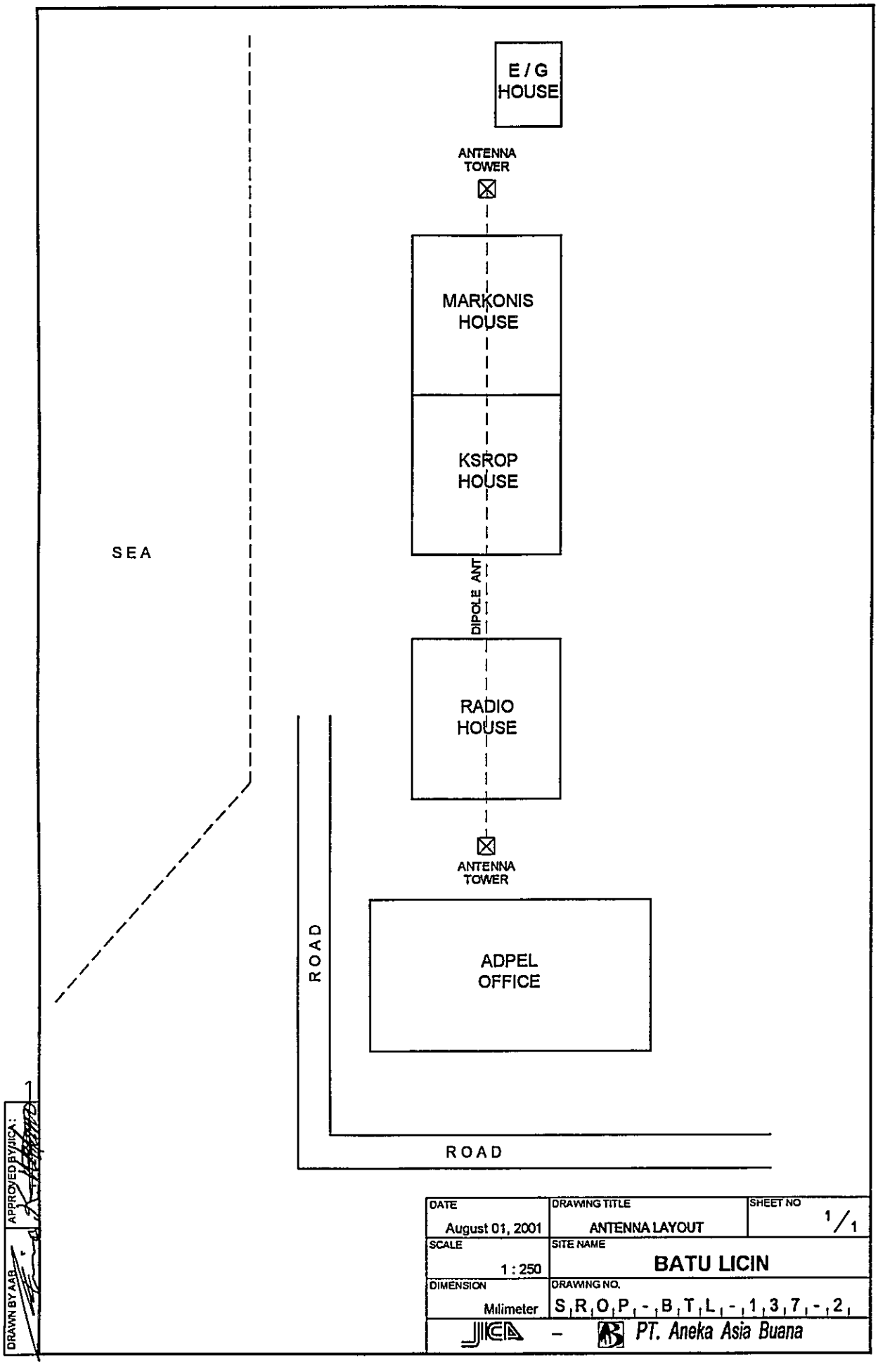
25					



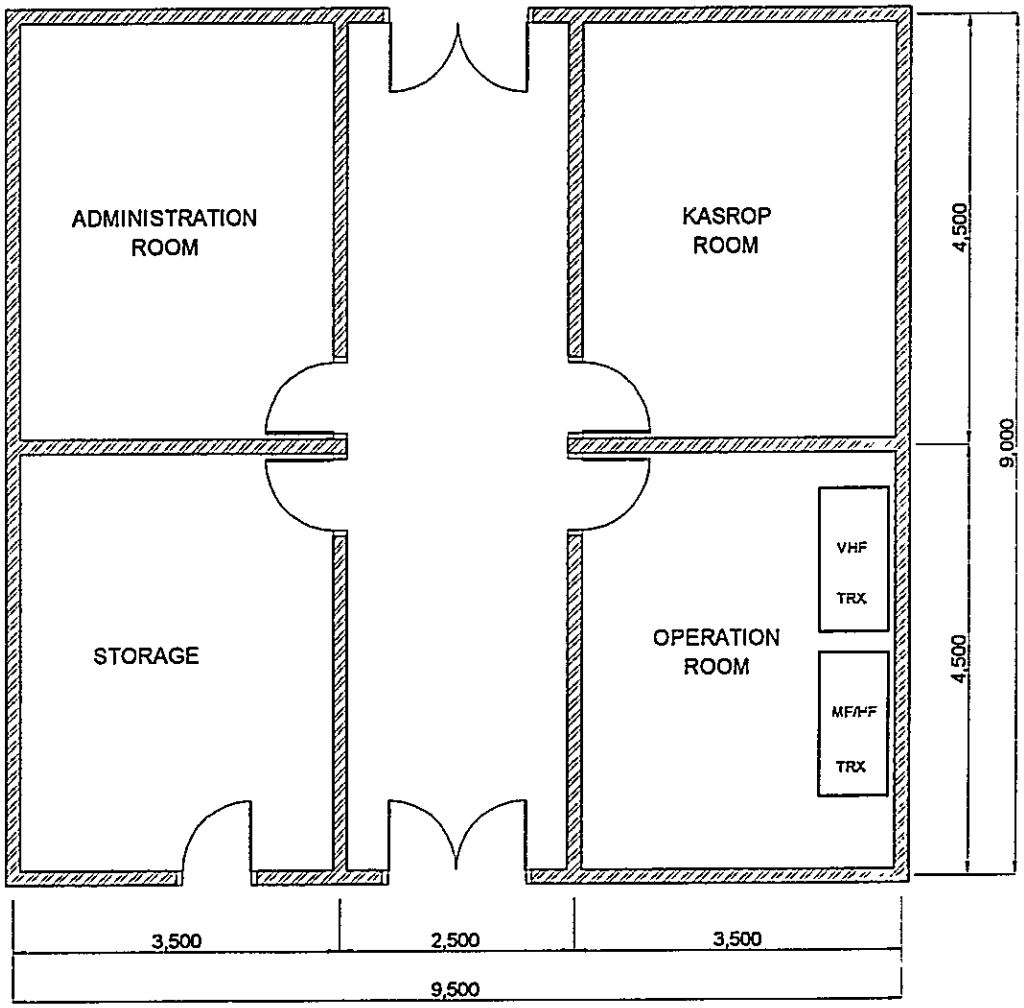
DATE: July 16, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 : 500,000	SITE NAME: BATU LICIN	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,B,T,L,-,1,3,7,-,1	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB | APPROVED BY JICA



DATE: August 01, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO: 1/1
SCALE: 1 : 250	SITE NAME: **BATU LICIN**	
DIMENSION: Milimeter	DRAWING NO.: S,R,O,P,-,B,T,L,-,1,3,7,-,2,	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB
APPROVED BY JICA:



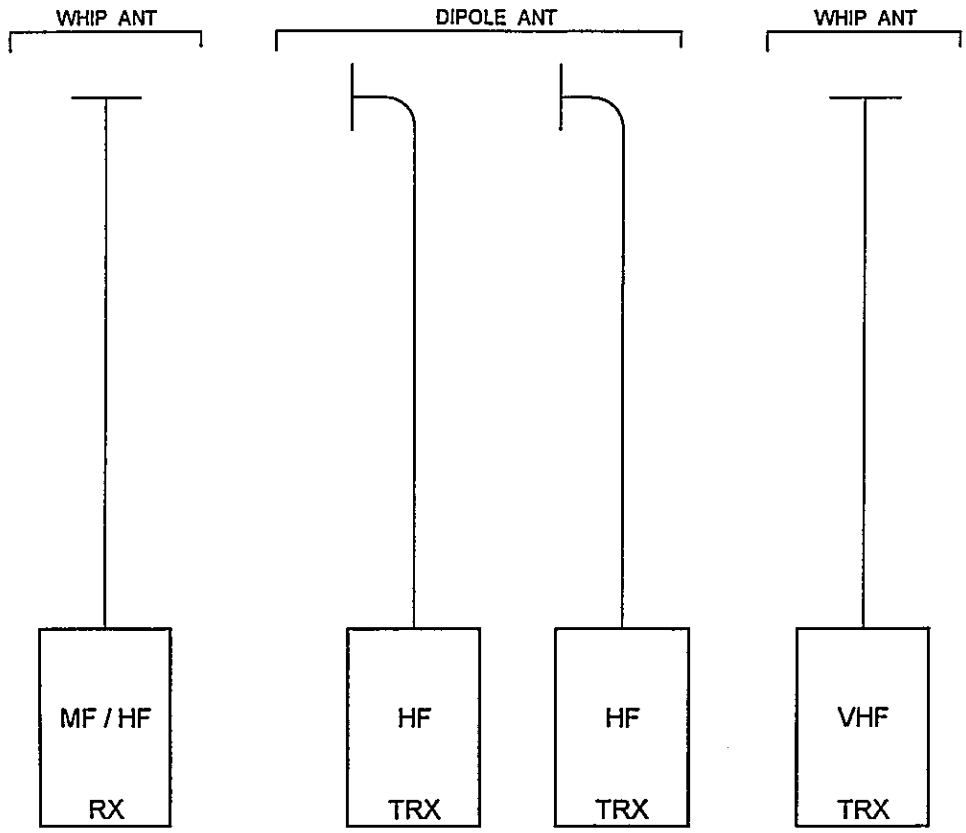
LEGEND

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

DATE: August 01, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 : 75	SITE NAME: BATU LICIN	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B,T,L -,1,3,7,- 3,	
JICA –	PT. Aneka Asia Buana	

APPROVED BY JICA :

DRAWN BY AAB



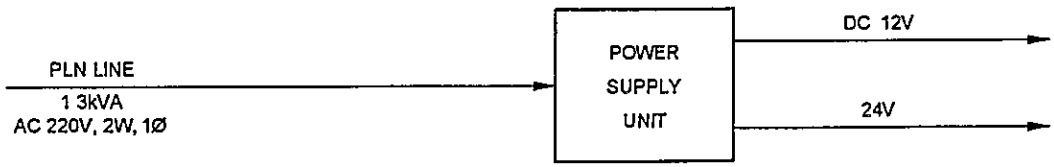
LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 30, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: **BATU LICIN**	
DIMENSION: Milimeter	DRAWING NO.: S R O P - B T L - 1 3 7 - 5	
JICA –	PT. Aneka Asia Buana	



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 30, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: BATU LICIN	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,B.T.L - 1 3.7 -.6	
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Maritime Telecommunication Facilities: Inventory, Plant Records and Outlook-2001

4th-B Class Coast Station

Pegatan

(Coast Station No. 138)

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	PEGATAN		
CLASS	4th-B	NO.	138

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				115° 55′ 40″ E	03° 36′ 20″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to B. Masin	[Taking time:	1:30 hr.]	☐ Highway	☐ Heavy	☐ Hotel	
By Car	to Location	[Taking time:	5:00 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	**m²**		☐ Lines	☐	☐ City water

3.2 Building Conditions

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

3.3 Power Source

	PLN Source	E/G
Voltage	V	V
Phase		
Wire		
kVA		

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

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

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

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

4. OPERATION AND MAINTENANCE

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

Records of damages		Environmental Conditions		
		Good	Bad	
☐ Heavy rainfall				
☐ 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		
T o t a l		

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	PEGATAN		
CLASS	4th-B	NO.	138

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: Pagatan

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

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

OPERATION SCHEDULE (FREQUENCIES)

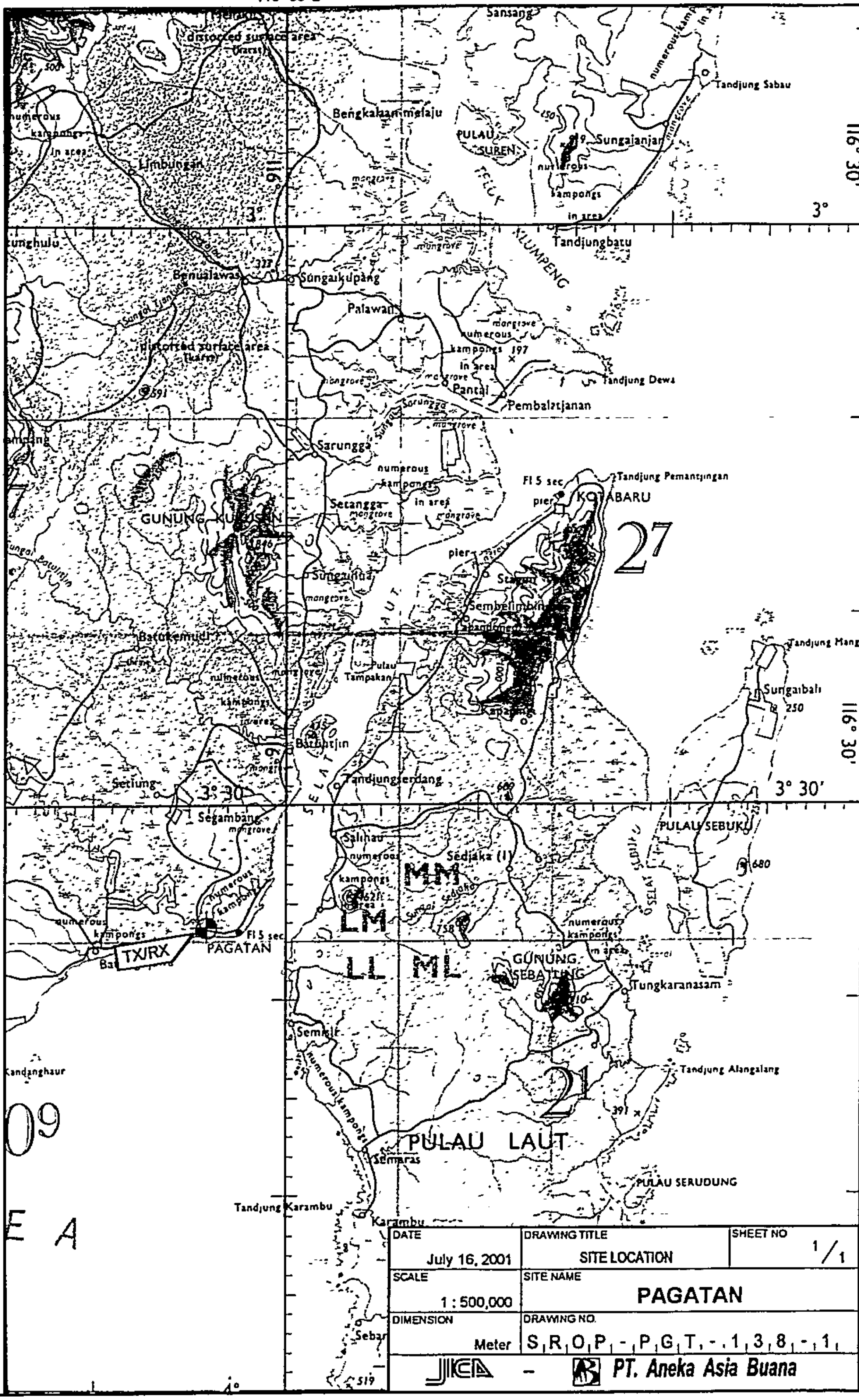
Site Name: Pagatan

PGT-138-(1/1)

Call Sign : Mobile Service :
Fix Service :

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

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



116° 00' E
03° 00' S
03° 30' S
116° 30'
3°
3° 30'
Sansang
Tandjung Sabau
Bengkalaanmelaju
PULAU SUREN
Sungaianjar
numerous kampongs in area
distorted surface area (karst)
Limbungan
Tandjungbatu
KLUMPENG
Benualawas
Sungaikupang
Palawan
Tandjung Dewa
Pantai
Pembalatjanan
Sarungga
Setangga
Tandjung Pemantjingan
KOTABARU
27
GUNUNG KUKUSAN
Sungaiduta
Stagen
Sembelimbing
Batukemudi
Pulau Tampakan
Tandjung Mangk
Sungaibali
Batulitjin
Tandjungserdang
Setiung
Segambang
PULAU SEBUKU
Salihau
Sedjaka (I)
MM
LM
LL
ML
TX/RX
PAGATAN
Fl 5 sec
GUNUNG SEBATUNG
Tungkaranasam
Semisir
Kandanghaur
Tandjung Alangalang
21
09
PULAU LAUT
Semaras
PULAU SERUDUNG
Tandjung Karambu
Karambu
Sebar
E A

DATE	DRAWING TITLE	SHEET NO
July 16, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 500,000	PAGATAN	
DIMENSION	DRAWING NO.	
Meter	S R O P - P G T - 1 3 8 - 1	

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