

**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 (17)
TARAKAN**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Area (17) Tarakan

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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

2nd Class District Navigation Office (Area-17) Tarakan

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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	TARAKAN		
	CLASS	2nd	NO.	17

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Yos Sudarso No. 6, Tarakan	0551-22866	0551-31333	117° 35' 44" E	03° 17' 40" N

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Balikpapan [Taking time 1:30 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	57,000
By Air to Tarakan [Taking time 1:30 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
By Car to Location [Taking time 0.45 hr.]	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
		<input type="checkbox"/> None		

3. CONDITIONS OF DISNAV OFFICE	Refer to attached drawing
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3.1 Site Conditions				
Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input type="checkbox"/> <input checked="" type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/> <input type="checkbox"/> Lightning system
Altitude	5 m		Telephone Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way
Land area	2,550 m ²		<input checked="" type="checkbox"/> 2 Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions
Num. of story	Two	Voltage	220 V	Good Bad
Structure	Concrete	Phase	3	<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System
Type of roof	Roof-Tile	Wire	4	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G
Type of ceiling	Plywood	kVA	3	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine
Wall finish	PC	Fluctuations	V ± 15 %	Day tank Liter
Flooring	Ceramic	Availability of power per day	24 Hours	Main tank k Liter
Room Area (m ²)		Power interruption /month	5 Times	E/G Stand-by System
Operation room	750	Total interpt. hours /month	11 Hours	<input type="checkbox"/> Single System
E / G room		Max. interpt. hours at once	6 Hours	<input type="checkbox"/> Dual System
Remark				

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

SUMMARY OF DISNAV	SITE	TARAKAN		
	CLASS	2nd	NO.	17

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
Tarakan
(Coast Station No. 149)**

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	TARAKAN		
	CLASS	3rd	NO.	149

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No. 6	0551-21550	0551-31333	117° 35' 25" E	03° 17' 20" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Balikpapan [Taking time: 1:30 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	57,000
By Air	to Tarakan [Taking time: 2:00 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
By Car	to Location [Taking time: 0:15 hr.]	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
			<input type="checkbox"/> None		

3. CONDITIONS OF STATION	Refer to attached drawing
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3.1 Site Conditions				
Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/> <input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/> <input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> <input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/> <input type="checkbox"/> Lightning system
Altitude	5.00 M		Telephone Lines	<input checked="" type="checkbox"/> <input type="checkbox"/> Feeder Cable Way
Land area	2,550 m ²		<input checked="" type="checkbox"/> 2 Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	3	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Roof Tile	Wire	4	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Plywood	kVA	7.5	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	PC	Fluctuations	V ± 15 %		Day tank
Flooring	Tile	Availability of power per day	24 Hours	Main tank	100 Liter
Room Area (m ²)		Power interruption /month	5 Times	E/G Stand-by System	
Operation room	24.00	Total interpt. hours /month	11 Hours	<input checked="" type="checkbox"/> Single System	
E / G room	20.00	Max. interpt. hours at once	6 Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS					
Actions taken in equipment failure									
Restoration flow	Module Changing			Chief		TX/RX			
Examples of major failure	AVR and HF telephone path			Operator (skilled)		11 (7)			()
Sufficiency of spares	Un-available			Technician (skilled)		()			()
Records of damages				Environmental Conditions		Administrator			
<input type="checkbox"/> Heavy rainfall		Good	Bad						
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/>	External noises	Total		12		
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air pollution					
<input type="checkbox"/> Other calamity									
Institutional and Human Statuses					Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee	
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough						
3 Measuring eqpt /tools	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough						
4 Number of Operator	<input checked="" type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough						
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough						
6 Capability of Operator	<input checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable						
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable						

SUMMARY OF COAST STATION	SITE	TARAKAN		
	CLASS	3rd	NO.	149

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		3	4		1991			308	1996			282
1997		4	6		1992			314	1997	157	511	276
1998		2	5		1993			288	1998	172	554	264
1999		3	3		1994			297	1999	324	1,281	259
2000		2			1995			277	2000	221	750	231

7. COMMENTS

Suggestion	Ocean Ships already used Inmarsat, it is time for Indonesia to use Inmarsat for Maritime Telecommunications
	Local ship station majority only send the information without MSG
	Referring to the request for GMDSS installation in North Kalimantan, for Area-1, beckon Tower and Ships request for Repeater installation in order to monitoring along the coast area
Remarks	

INVENTORY

Site Name: Tarakan

TRK-149- (1/17)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter	RH-00-2	005	Sailor	1995	F-TA-193: PH3		Good
2		MF Transmitter	RH-00-2	006	Sailor	1995	F-TA-193: PH3		Good
3		HF Transceiver (2 Sets)	RH-16-3	007	Sailor	1995	F-TA-193: PH3		Good
4		HF Transceiver	M-700	6160	ICOM	1996			Damaged
5		HF Transceiver	M-700		ICOM	1991			Damaged
1-2		Operator Console/Desk/Rack							
1-2-1		MF Console	RH-002	005	Sailor	1996	F-TA-193: PH3		Good
1		MF Transmitter (Type A)	TI1127L	504130	Sailor	1996	F-TA-193: PH3		Damaged
		- Tx (400W)	TI1127L	504134	Sailor	1996	F-TA-193: PH3		Good
		- Tx (400W)	S1301L	504138	Sailor	1996	F-TA-193: PH3		Good
		- Exciter	S1301L	504058	Sailor	1996	F-TA-193: PH3		Good
		- Exciter	HI201	504159	Sailor	1996	F-TA-193: PH3		Good
		- Tuner	HI201	504123	Sailor	1996	F-TA-193: PH3		Good
		- Tuner	NI401	504147	Sailor	1996	F-TA-193: PH3		Good
		- Power Supply	NI401	522744	Sailor	1996	F-TA-193: PH3		Good
		- Power Supply							Good
1-2-2		MF/HF Console	RH-16-3	1	Sailor	1996	F-TA-193: PH3		Good
1		MF/HF Equipment	T2131	513479	Sailor	1996	F-TA-193: PH3		Good
		- Tx (600 W) (on the wall)	T2131	513483	Sailor	1996	F-TA-193: PH3		Good
		- Tx (600 W) (on the wall)	N2171	515495	Sailor	1996	F-TA-193: PH3		Damaged
		- AC Power Supply	N2171	515497	Sailor	1996	F-TA-193: PH3		Good
		- AC Power Supply	AT2112	514514	Sailor	1996	F-TA-193: PH3		Good
		- Antenna Coupler (on the wall)	AT2112	514515	Sailor	1996	F-TA-193: PH3		Good
		- Antenna Coupler (on the wall)	H2185	512149	Sailor	1995	F-TA-193: PH3		Good
		- CW Unit	H2185	514375	Sailor	1995	F-TA-193: PH3		Good
		- CW Unit							Good
		All Wave Receiver							Good
2		- Control Unit HF1	RE2100	521646	Sailor	1996	F-TA-193: PH3		Good

Tarakan

INVENTORY

Site Name: Tarakan

TRK-149- (2 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition	
3		- Control Unit HF2	RE2100	511895	Sailor	1996	F-TA-193: PH3		Good	
		- Duplex Receiver	R2120T	237208	Sailor	1996	F-TA-193: PH3		Good	
		- Loudspeaker	H2054	237196	Sailor	1996	F-TA-193: PH3		Good	
4		- Spot Receiver		2	Sailor	1996	F-TA-193: PH3		Good	
		- MF/HF DSC W/K RX	RM2150	511367	Sailor	1996	F-TA-193: PH3		Damaged	
		- Power Supply	N2165	520221	Sailor	1996	F-TA-193: PH3		Good	
5		Terminal Unit (DSC VHF/HF)								
		DSC System	TT-6200A	1	Sailor	1996	F-TA-193: PH3		Good	
		- LAN	TT-101064	1	Sailor	1996	F-TA-193: PH3		Damaged	
		- LAN I/O	TT-101065	1	Sailor	1996	F-TA-193: PH3		Damaged	
		- CPU	TT-101051	1	Sailor	1996	F-TA-193: PH3		Good	
		- CPU I/O	TT-10123	1	Sailor	1996	F-TA-193: PH3		Good	
		- Paralel	TT-101190	1	Sailor	1996	F-TA-193: PH3		Damaged	
		- Paralel I/O	TT-101217	1	Sailor	1996	F-TA-193: PH3		Good	
		- VHF Modem	TT-102239	1	Sailor	1996	F-TA-193: PH3		Damaged	
		- HF Modem	TT-102237	1	Sailor	1996	F-TA-193: PH3		Good	
		- Modem I/O	TT-102238	2	Sailor	1996	F-TA-193: PH3		Good	
		- Alarm I/O	TT-101242	1	Sailor	1996	F-TA-193: PH3		Good	
		- Power Supply	TT-101122	1	Sailor	1996	F-TA-193: PH3		Good	
		- Power Input	TT-101241	1	Sailor	1996	F-TA-193: PH3		Good	
		6		- DSC Op. Position Term /PC						
1) Compaq Proline 466				160648-202	Sailor	1996	F-TA-193: PH3		Good	
2) Compaq Monitor 140				532AF05CB850	Sailor	1996	F-TA-193: PH3		Good	
- Printer (H-1252A) (On the Console)	TT-1608C			5CAP3193256	Sailor	1996	F-TA-193: PH3		Damaged	
- Monitor Display	TT-3602B			9603544	Sailor	1996	F-TA-193: PH3		Good	
- DSC Alarm	TT-1542B			1	Sailor	1996	F-TA-193: PH3		Good	
Signal Control Panel										
- Audio/Digital Matrix	MTX-1616			130	Sailor	1996	F-TA-193: PH3		Damaged	
- Keyer	KK-1			1	Sailor	1996	F-TA-193: PH3		Good	
- Loudspeaker	H2054			2	Sailor	1996	F-TA-193: PH3		Good	
Telephone Repeater (Phone Patch)										
- Radio/Tel I/F Unit	RTU-280	346	Sailor	1996	F-TA-193: PH3		Good			

Tarakan

INVENTORY

Site Name: Tarakan

TRK-149- (3 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
7		ARQ Equipment - Radiotelex Modem - ARQ Key Board - Printer (H1252A) (on the Console) - Telex Alarm	TT-1585E TT-1601 A TT-1680C TT-1542B	9603504 9603534 5CAP3193327 9603516	Sailor Sailor Sailor Sailor	1996 1996 1996 1996	F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3		Good Good Damaged Good
1-3		Receiver MF/HF Receiver MF/HF Receiver	IC-R71E NRD-15J	0203 BR-12241	ICOM JRC	1992 1972			Damaged Damaged
1-4		VHF System VHF Transceiver (3 Sets) VHF Transceiver VHF Transceiver Operation Console Multichannel VHF Transceiver	RH-16-1 M-58 227 YH RH-16-1	007 02070 BH-16877 007	Sailor ICOM JRC Sailor	1995 1996 1989 1996	F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3		Good Good Good Good
		- VHF T/R (Modified) - VHF T/R (Modified) - VHF T/R (Modified) - VHF T/R (Modified) - Linier Power Amplifier - Linier Power Amplifier - Linier Power Amplifier - Linier Power Amplifier - Duplex Filter CH-70 VHF T/R	RT 2048 RT 2048 RT 2048 RT 2048 A2080BE-H A2080BE-H A2080BE-H A2080BE-H -	523733 523704 523714 523689 360 573 237 310 2	Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor	1996 1996 1996 1996 1996 1996 1996 1996 1996	F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3		Good Good Good Good Good Good Good Good Good
5		- VHF T/R - High Low I/F Unit (Relay Box) - RF Power Amplifier - AC Power Supply - DC Power Supply - AC Power Supply Term Equipmt (DSC VHF/HF) - Audio/Digital Matrix	RT2048 - A2080BE-H N163S N420 PSF-1	523712 2 221 516304 1 TWR/12770/043	Sailor Sailor Sailor Sailor Sailor Sailor	1996 1996 1996 1996 1996 1996	F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3		Good Good Good Good Good Good
6		MTX-1616	MTX-1616	128	Sailor	1996	F-TA-193: PH3		Good

Tarakan

INVENTORY

Site Name: Tarakan

TRK-149- (4 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
7		Telephone Repeater - Radio/Tel I/F Unit - Telephone set with call timer - Headset - Hand set - Desk Microphone - Quartz Clock - Service Engineer Kit - Mouse - Instr. Manual Comp. Compaq - Chair	RTU-280 - DM 811 - - - - - - -	184 2 2 6 2 1 1 1 1 1	Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor Sailor	1996 1996 1996 1996 1996 1996 1996 1996 1996 1996	F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3 F-TA-193: PH3		Good Damaged Damaged Good Good Good Good Good Good Good Good
2		Tower & Antenna System							
2-1		Tower & Mast TX Station 20mH Tower (3 Sets)	Triangle						Good
2-2		Antenna System TX Station Single Tower Antenna 3-Wire T Type Antenna T-Type Antenna Celwave VHF Antenna (3 Sets) AAS HF7 Antenna Multi Doublet Antenna AAD Cage Antenna I/L Antenna for T/R VHF 3 Antenna	T-Type T-Type Dipole Dipole E-22 CA 5/1-20-15 HF7		JRC ICOM Sailor Sailor Furuno Sailor Sailor	1991 1972 1991 1996 1995 1995 1996 1996	F-TA-193: PH3 F-TA-193: PH3	Good Good Good Good Good Good Good Good	
2-3		Antenna Switch - Desk Microphone Automatic Antenna Tuner Antenna Distributor	AT-130 AAD101/A-J1-6G	1 3	Sailor ICOM Sailor	1996 1995 1996	F-TA-193: PH3 F-TA-193: PH3		Good Good Good Good
1									
2									

Tarakan

INVENTORY

Site Name: Tarakan

TRK-149- (5 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		Power Supply Equipment							
3-1		Power Distribution Board		9505	Sailor	1996	F-TA-193: PH3		Good
1		7.5kVA PDB for TX/RX							
2		Control Panel (AMF)	PL 95-7s	9510	Sailor	1996	F-TA-193: PH3		Good
		- 10 kVA Single Standby	-	1	-	1996	F-TA-193: PH3		Good
		Starting, Fuel, Exhaust System	-	1	-	1996	F-TA-193: PH3		Good
		Fuel Day Tank	-	1	-	1996	F-TA-193: PH3		Good
		- 100 L	-						
		- Fuel Control Unit	-						
		Fuel Storage Tank	-						
		- 1000 L	-						
3-2		Isolation Transformer							
1		Trafo	IST 10P3	9505	PNT	1995			Good
2		7.5kVA, 4W, 3P	IST 10P3	9505	Sailor	1996	F-TA-193: PH3		Good
3-3		Step-Up Transformer							
1		Step-Up Transformer	SUT 10P3	9511	PNT	1995			Good
2		9.9kVA, 4W, 3P	STU 10P3	9511	Sailor	1996	F-TA-193: PH3		Good
3-4		UPS & AVR							
1		5kVA AVR	NBZ-295A	BP-295A	JRC	1972			Good
2		2.5kVA AVR	AVR 7P3	9513	PNT	1995	F-TA-193: PH3		Good
3		DC Power Supply Regulator	PS-450-AX		WELL	1996			Good
4		DC Power Supply Regulator	SP-3500		Swallow	1995			Good
5		DC Power Supply Regulator	DM 130MVZ		Alinco	1994			Good
6		DC Power Supply Regulator	EP 3010		Alinco	1992			Good
7		Battery Charge	N 200		Delta	1995			Damaged
8		Accumulator (x3)	AVR7P3		Gold Star	1995			Good
9		AVR : 7.5kVA, 4W, 3P		9513	Sailor	1996			Good

Tarakan

INVENTORY

Site Name: Tarakan

TRK-149- (6 / 7)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-5		Engine Generator	V 1505	664664	Kubota	1995	F-TA-193: PH3		Good
1		Diesel Motor	TS 230N	1323003	Yanmar	1996	F-TA-193: PH3		Damaged
2		Diesel Motor	TS 155C		Yanmar	1973			Good
3		Diesel Motor	BCI-164D26	COS168412	Newage	1995	F-TA-193: PH3		Good
4		AC Stamford Generator	FA 10 F	0468787	Denyo	1996	F-TA-193: PH3		Good
5		AC Generator	730C	0163	Osaka	1973			Good
6		7.5kVA Single Standby AMF	PL-95-7S	9710	PNT	1995	F-TA-193: PH3		Good
7		Diesel E/G							
8		Single Standby	EG 10 RA	1	JRC	1996	F-TA-193: PH3		Good
		- 10 kVA, 380V, 3P, 4W	V-1505E	V1505/664664	JRC	1996	F-TA-193: PH3		Good
		Engine	BCI-164-D	COS1684/2	JRC	1996	F-TA-193: PH3		Good
		Generator	-	9513	JRC	1996	F-TA-193: PH3		Good
		E/G Panel							
4		Measuring Equipment							
1		Analog Oscilloscope	PM 3065		Phillips	1995	F-TA-193: PH3		Good
2		Multi Meter (3 Sets)	Fluxe 87		Fluxe	1995	F-TA-193: PH3		Good
3		Insulation Tester	2406		Yokogama	1995	F-TA-193: PH3		Good
4		Multi Meter	SP-15D		Sanwa	1995	F-TA-193: PH3		Good
5		Multi Meter	CX-505	047132	Sanwa	1990			Good
6		Analog Oscilloscope	PM3065	DM639017	JRC	1996	F-TA-193: PH3		Good
		- Plobe/Lead (x2)		2					
		- Power Cable (x1)		1					
		- Black Cover (x1)		1					
		- Operation Manual		1					
7		Fluke 87 Multimeter	-	64510741	JRC	1996	F-TA-193: PH3		Good
8		Fluke 87 Multimeter	-	64510742	JRC	1996	F-TA-193: PH3		Good
9		Fluke 87 Multimeter	-	64510743	JRC	1996	F-TA-193: PH3		Good
		- Test Lead Set (x1)		3					
		- Hoester House Yellow (x1)		3					
		- User Manual (x2)		6					

Tarakan

INVENTORY

Site Name: Tarakan

TRK-149- (7 / 7)

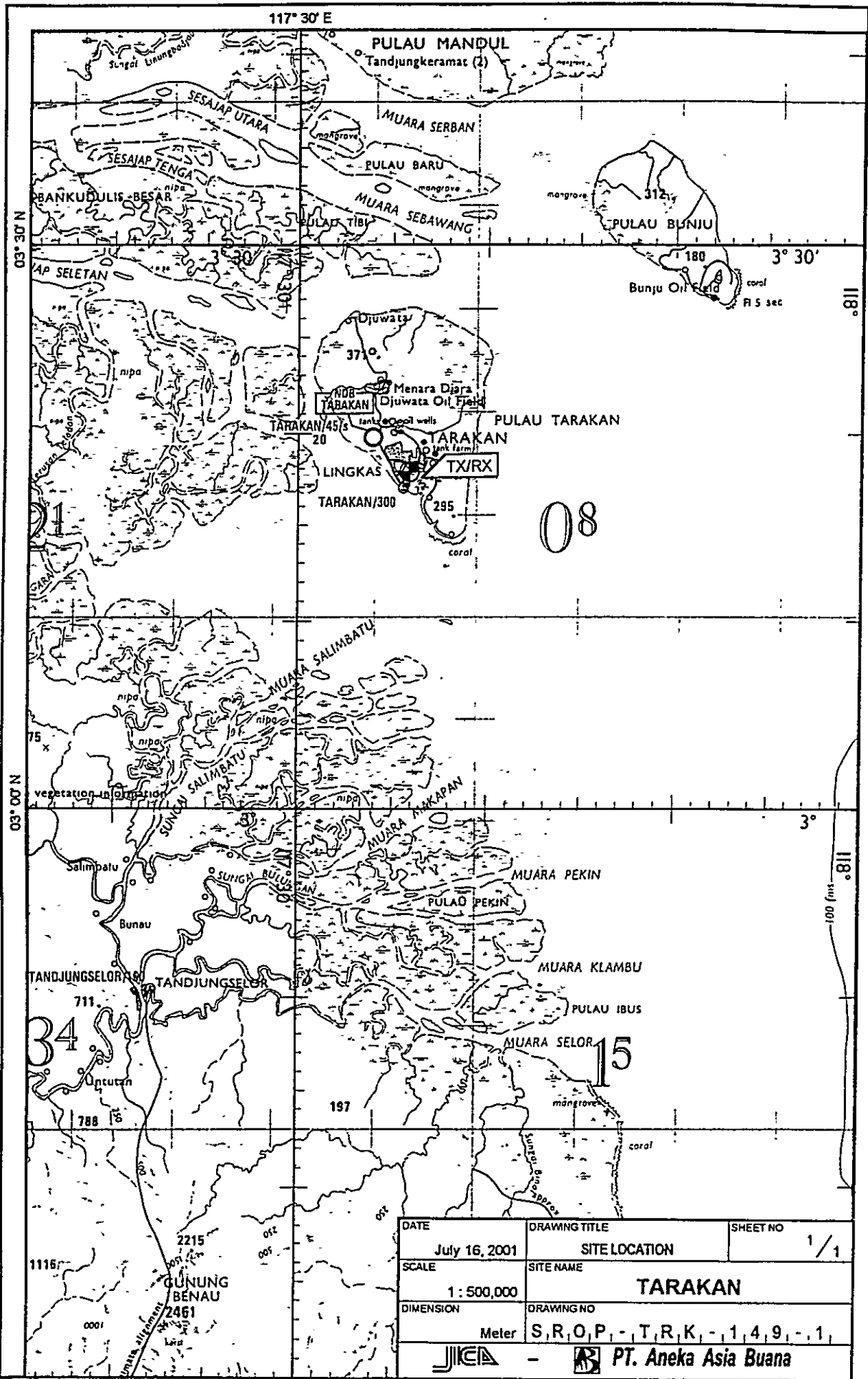
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
10		Insulation Tester - Line Plobe (x1) - Earth Plobe (x1) - Carrying Case (x1) - Instruction Manual (x1) RF Coaxial Load Resistor RF Coaxial Load Resistor - Connection Cable (x1)	2406A	65WA1524 1 1 1 1	JRC	1996	F-TA-193: PH3		Good
11		RF Coaxial Load Resistor	8201	17083	JRC	1996			Good
12		RF Coaxial Load Resistor	8201	17087	JRC	1996			Good
5		Others							
1		Air Conditioner			Carrier	1995			Good
2		Air Conditioner	AF-1300M		Sharp	1994			Good
3		Air Conditioner			Sanyo	1994			Good
4		Type Writer	Carina 3		Olympia	1994			Good
5		Type Writer	Carina 3		Olympia	1994			Good
6		Tool Kit			Proskit	1996	F-TA-193: PH3		Good
7		Dummy Load	Bird 8201		Bird	1996	F-TA-193: PH3		Good
8		Vacuum Cleaner	MC-2600	112860	National	1995	F-TA-193: PH3		Good
9		Compressor	MS-32		Mitsui	1996	F-TA-193: PH3		Good
10		Services Engineers Kit	RS 541-365	1	JRC	1996	F-TA-193: PH3		Good

STATUS OF TROUBLES

SITE NAME : TARAKAN

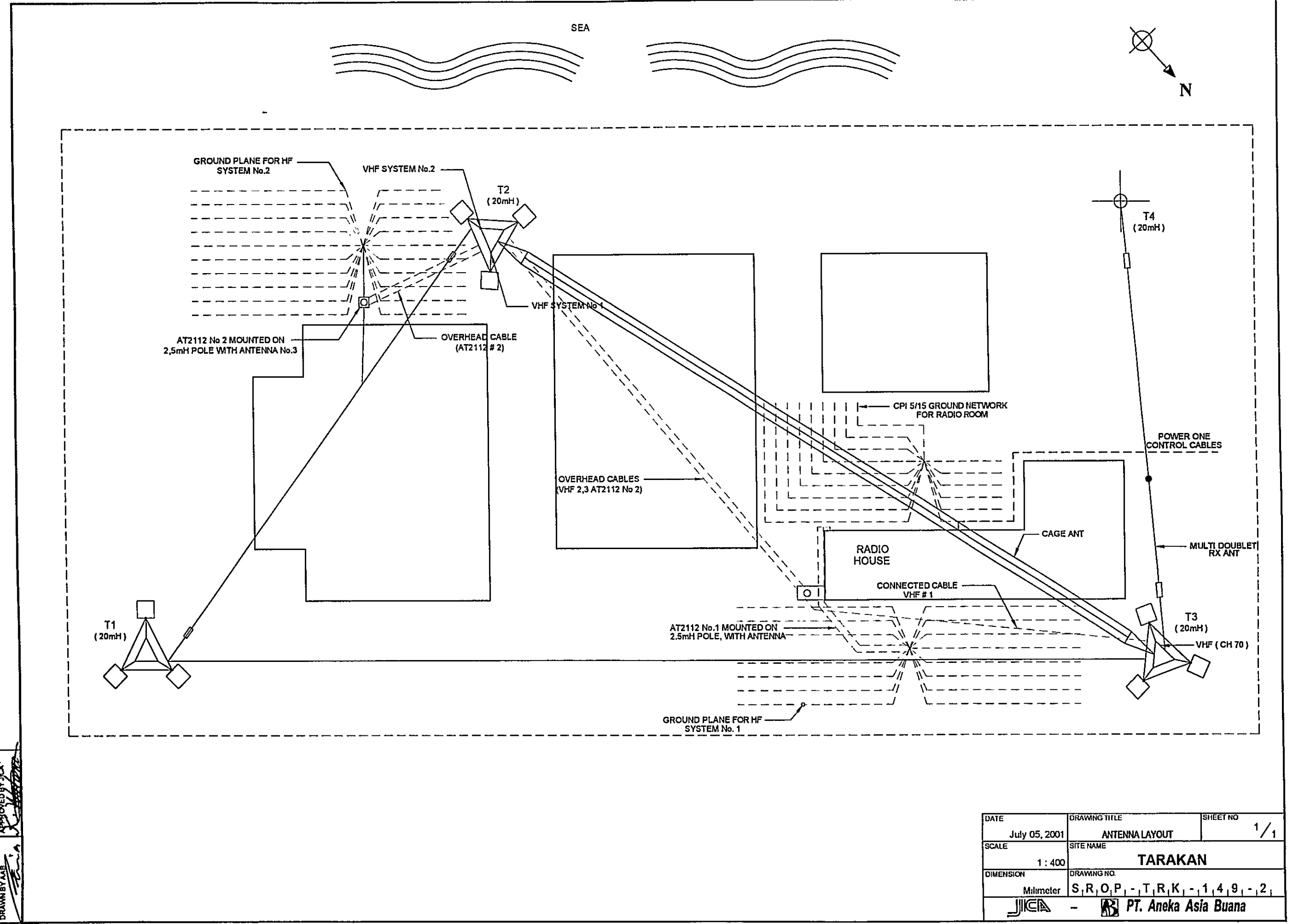
TRK-149-(1/1)

Item / Equipment	HF Phone Patch Unit, AVR, MF Receiver / -	
Manufacturer	JPS Communications Inc, TNT Jakarta, JRC	
Manufacturer in year	1995, 1995, 1972	
Defective panel / unit	Damaged, Totally damaged, Must be changed	
Details of Trouble Status	Cause doe to:	Urgency of Repair
	<input type="checkbox"/> Aging	
	<input checked="" type="checkbox"/> Lightning	
	<input type="checkbox"/> Corrosion	
	<input checked="" type="checkbox"/> Lack of Spares	
<input type="checkbox"/> Others		
Repairing to be:		
<input checked="" type="checkbox"/> Immediacy		
<input type="checkbox"/> By next year budget		
<input type="checkbox"/> By next project		
<input type="checkbox"/> Unnecessary		
<u>General Comment for Maintenance:</u>		
Can not be repaired, because there is no technician		
Un-availability of spare unit		
Difficult to find out the spare part		
Un-sufficiency budget for maintenance		



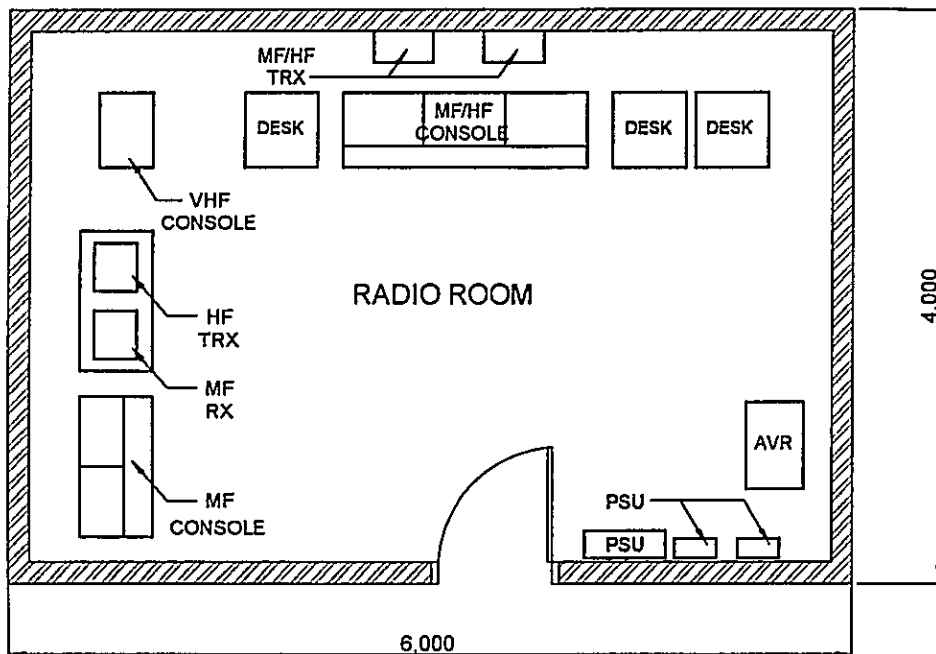
DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
July 16, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 500,000	TARAKAN	
DIMENSION	DRAWING NO	
Meter	S, R, O, P, - T, R, K, - 1, 4, 9, - 1,	



DRAWN BY AIR
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
July 05, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 400	TARAKAN	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - T, R, K, - 1, 4, 9, - 2, 1	

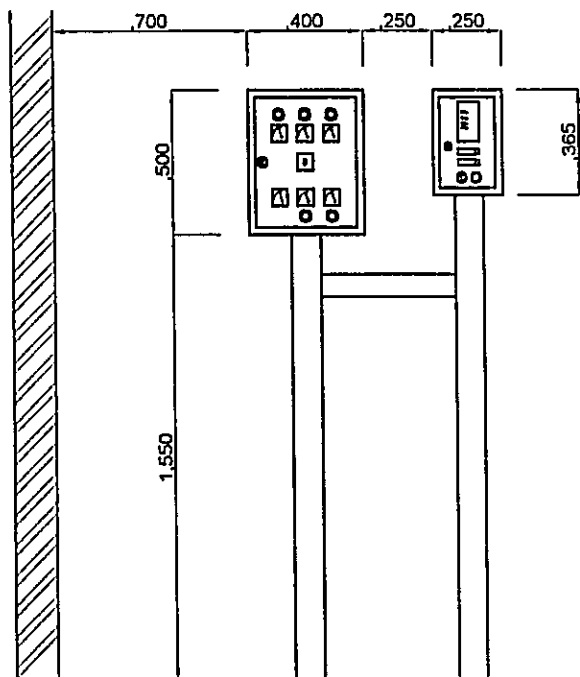


LEGEND

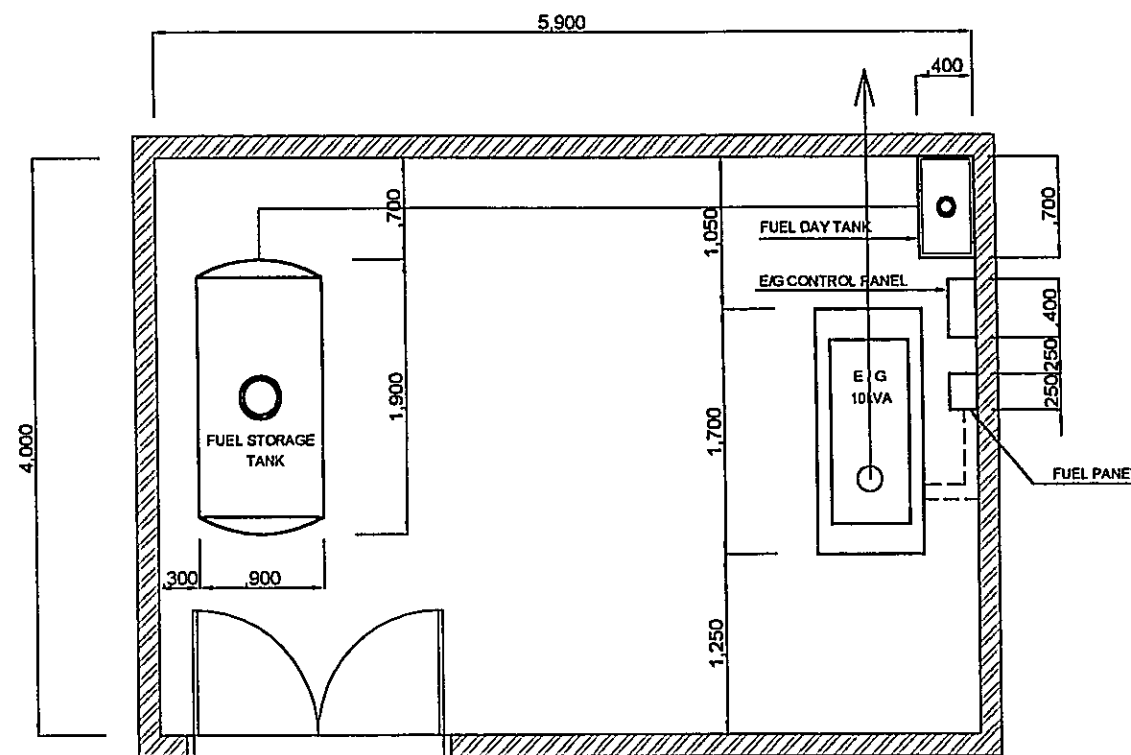
- AVR : AUTOMATIC VOLTAGE REGULATOR
- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- TRX : TRANSCEIVER
- VHF : VERY HIGH FREQUENCY

DATE July 05, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 50	SITE NAME TARAKAN	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - T, R, K, - 1, 4, 9, - 3,	
- PT. Aneka Asia Buana		

DRAWN BY AAB
 APPROVED BY JICA



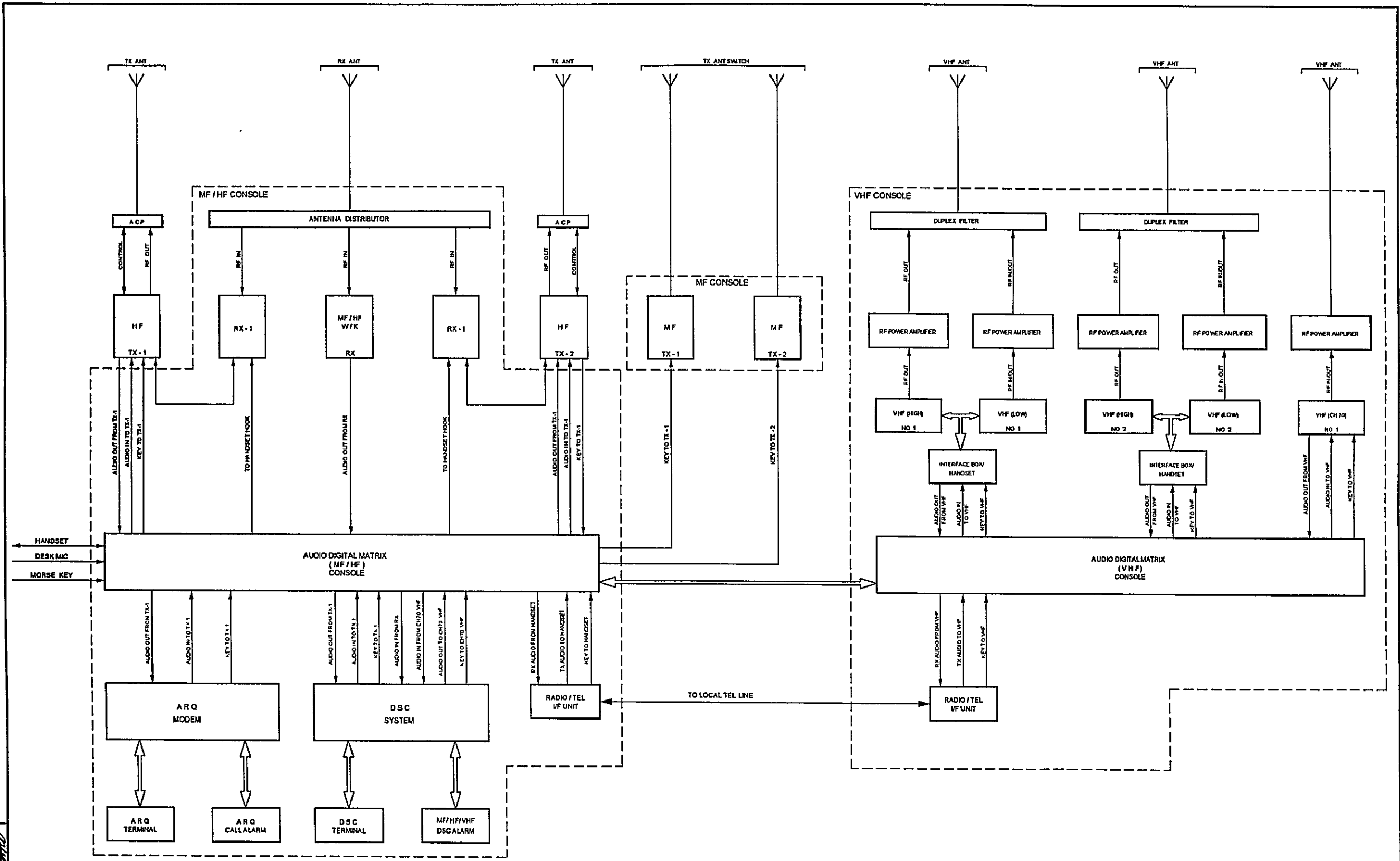
FRONT VIEW E/G PANEL



DRAWN BY AAR.
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
July 05, 2001	E/G FLOOR LAYOUT	1/1
SCALE	SITE NAME	
1 : 25 / 1 : 50	TARAKAN	
DIMENSION	DRAWING NO	
Millimeter	S, R, O, P - T, R, K, - 1, 4, 9, - 4	
JICA	PT. Aneka Asia Buana	

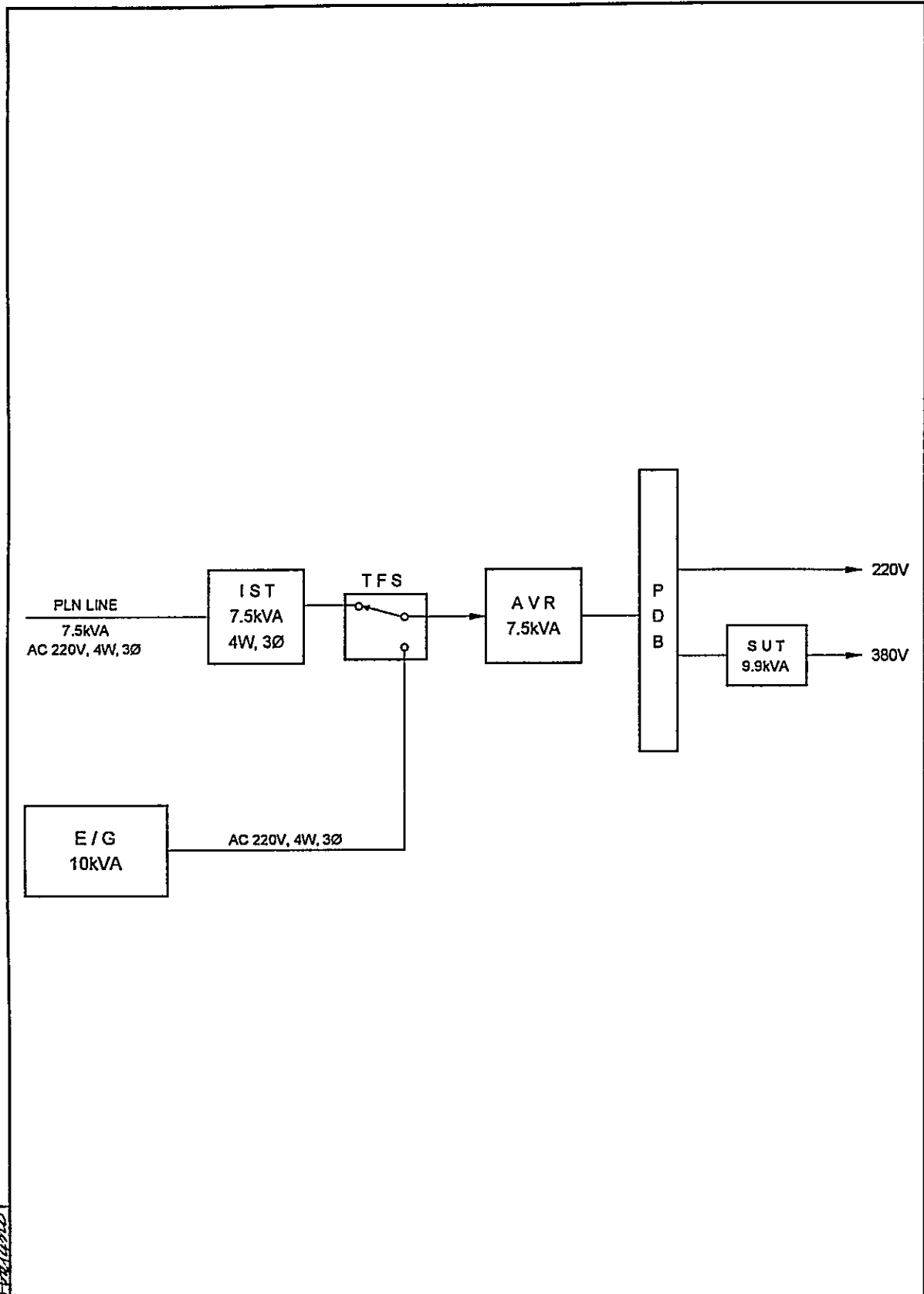
DRAWN BY AAB
APPROVED BY JICA
[Signature]



LEGEND



- ANT . ANTENNA
- DSC DIGITAL SELECTIVE CALLING
- H F : HIGH FREQUENCY
- M F : MEDIUM FREQUENCY
- VHF : VERY HIGH FREQUENCY

DATE	DRAWING TITLE	SHEET NO.
August 02, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	TARAKAN	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, - , T, R, K, - , 1, 4, 9, - , 5,	
- PT. Aneka Asia Buana		



LEGEND

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

DATE	DRAWING TITLE	SHEET NO
August 02, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	TARAKAN	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - T, R, K, - 1, 4, 9, - 6,	
 -  PT. Aneka Asia Buana		

APPROVED BY JICA
 DRAWN BY AAB

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

4th-A Class Coast Station Nunukan (Coast Station No. 150)

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	NUNUKAN		
	CLASS	4th-A	NO.	150

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan Baru	21505		117° 40' 00" E	04° 49' 00" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Balikpapan [Taking time: 1:30 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	74,000
By Air	to Tarakan [Taking time: 1:45 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
By Ship	to Nunukan [Taking time: 0.5 hr.]	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
			<input type="checkbox"/> None		

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

3.1 Site Conditions					
Topography		Nature of Soil		Past disaster of site	Confirmation of existing system
<input type="checkbox"/> Flat	<input checked="" type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna
<input checked="" type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/>	<input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy			<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	15.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	687.50 m ²		<input checked="" type="checkbox"/> 1 Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> City water

3.2 Building Conditions			3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	110/220 V	Good Bad
Structure	Concrete	Phase	1	1	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Zinc	Wire	2	2	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA	1.2	3/2	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	10 V ± %		Day tank 10 Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m²)		Power interruption /month	9 Times	E/G Stand-by System	
Operation room	24.00	Total interpt. hours /month	18 Hours	<input type="checkbox"/> Single System	
E / G room	5.00	Max. interpt. hours at once	18 Hours	<input checked="" type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS					
Actions taken in equipment failure					TX/RX				
Restoration flow				Chief	1				
Examples of major failure				Operator (skilled)	(1)		(0)		
Sufficiency of spares				Technician (skilled)	(0)		(0)		
Records of damages			Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall			Good	Bad					
<input type="checkbox"/> Storm			<input checked="" type="checkbox"/>	<input type="checkbox"/>	External noises		Total 2		
<input type="checkbox"/> Lightning			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air pollution				
<input type="checkbox"/> Other calamity									
Institutional and Human Statuses					Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient		Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough		Operator	Oru	Jakarta	94-95	1
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough						
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough						
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough						
6 Capability of Operator	<input checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable						
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable						

SUMMARY OF COAST STATION	SITE	NUNUKAN		
	CLASS	4th-A	NO.	150

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: Nunukan

NNK-150- (1 / 2)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter	NTD/177	004-04	INTI	1981			Damaged
1		HF Transceiver	FT/300C	08411066	CITRA	1985			Damaged
2		MF/HF Transceiver	IC-M700	01238	ICOM	1988			Good
3		MF/HF Transceiver	IC-77	1507	ICOM	1993			Good
4		MF/HF Transceiver							
1-2		VHF System							
1		VHF Transceiver	FM-400	247648	Furuno	1988			Damaged
2		VHF Transceiver	IC-M59	11030	ICOM	1997			Damaged
3		VHF Transceiver			Kenwood				Good
2		Tower & Antenna System							
2-1		Antenna System							
1		3W Antenna (1)	T						
2		Antenna (2)	L						
3		Antenna (1)	T						
2-2		Antenna Switch							
1		Antenna Coupler	XW-49	002-40	INTI	1981			
2		Antenna Selector							
3		Automatic Antenna Tuner	AT-120		ICOM	1988			
2-3		Automatic Antenna Tuner	AT-120		ICOM	1988			Good
1		Antenna Matching Unit							
2		Antenna Matcher	CNW-419	HD9174	DAIWA	1985			Not used
3		Antenna Coupler		002-49	INTI	1981			No Good
3-1		Power Supply Equipment							
1		UPS & AVR System							
2		Power Supply		002-40	INTI	1981			Good
		Power Supply			Carlton	1990			Good

Tarakan

INVENTORY

Site Name: Nunukan

NNK-150- (2 / 2)

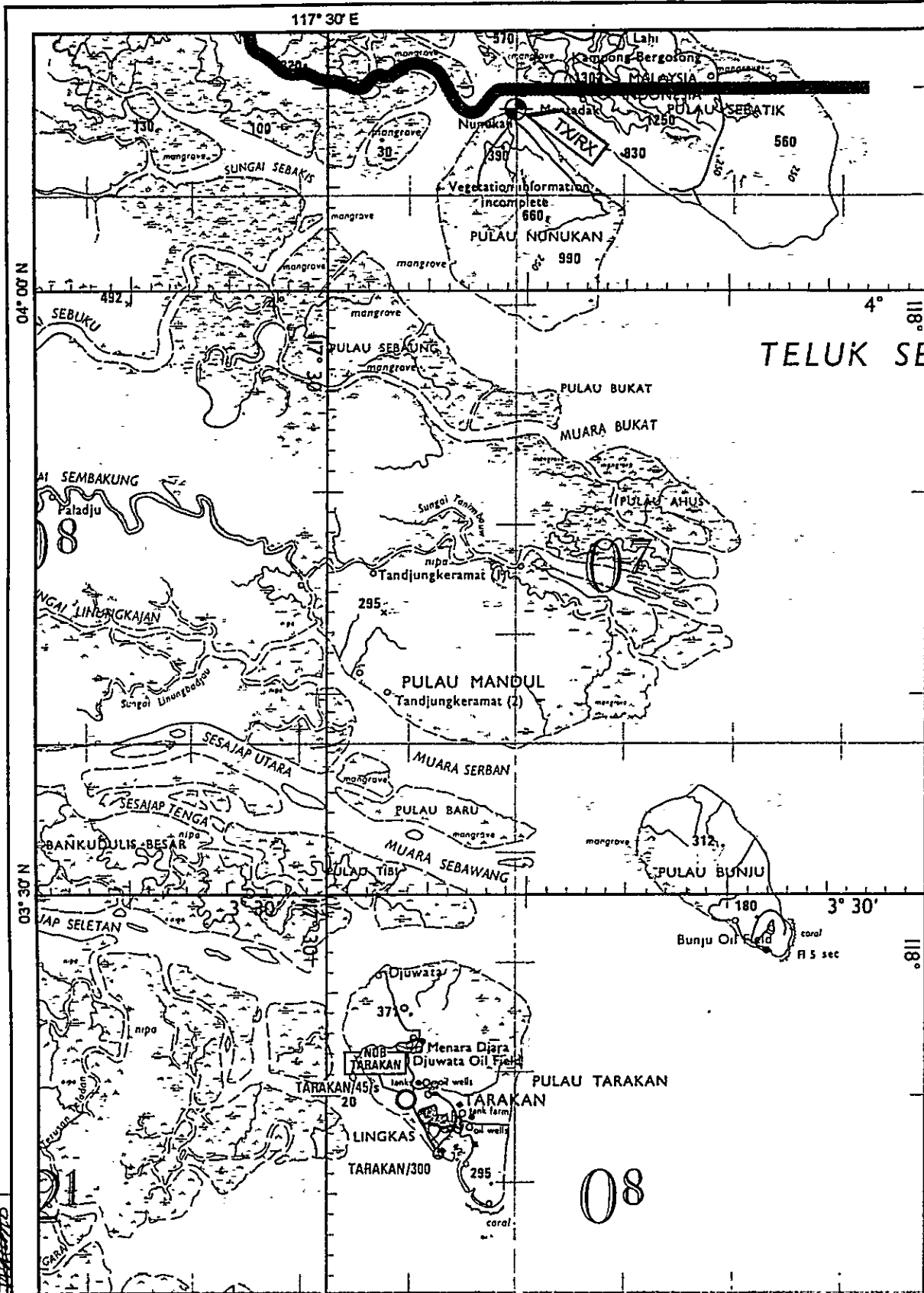
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		Power Supply			Well	1995			Good
4		Power Supply		7001062	Dakai	1997			Good
5		Accumulator 2x12V/50AH			Yuasa	1994			
6		Accumulator 2x12V/100AH			NS	1996			
7		Battery Charger 110/220V			Kobe	1994			
8		Battery Charger 110/220V			Delta	1995			
3-2		Engine Generator							
1		Engine	TS-60C	014638	Yanmar	1981			
2		Engine	TS-130C	0442491	Yanmar	1985			
3		Generator C232KVA			DENYO	1981			
4		Generator 3KVA			DENYO	1985			
4		Measuring Equipment							
1		Multi Tester	YX-360TRE		Sanwa	1996			
5		Others							
1		Portable Fan							
2		Hanging Fan		5755	Maspion National	1985			

STATUS OF TROUBLES



SITE NAME : NUNUKAN

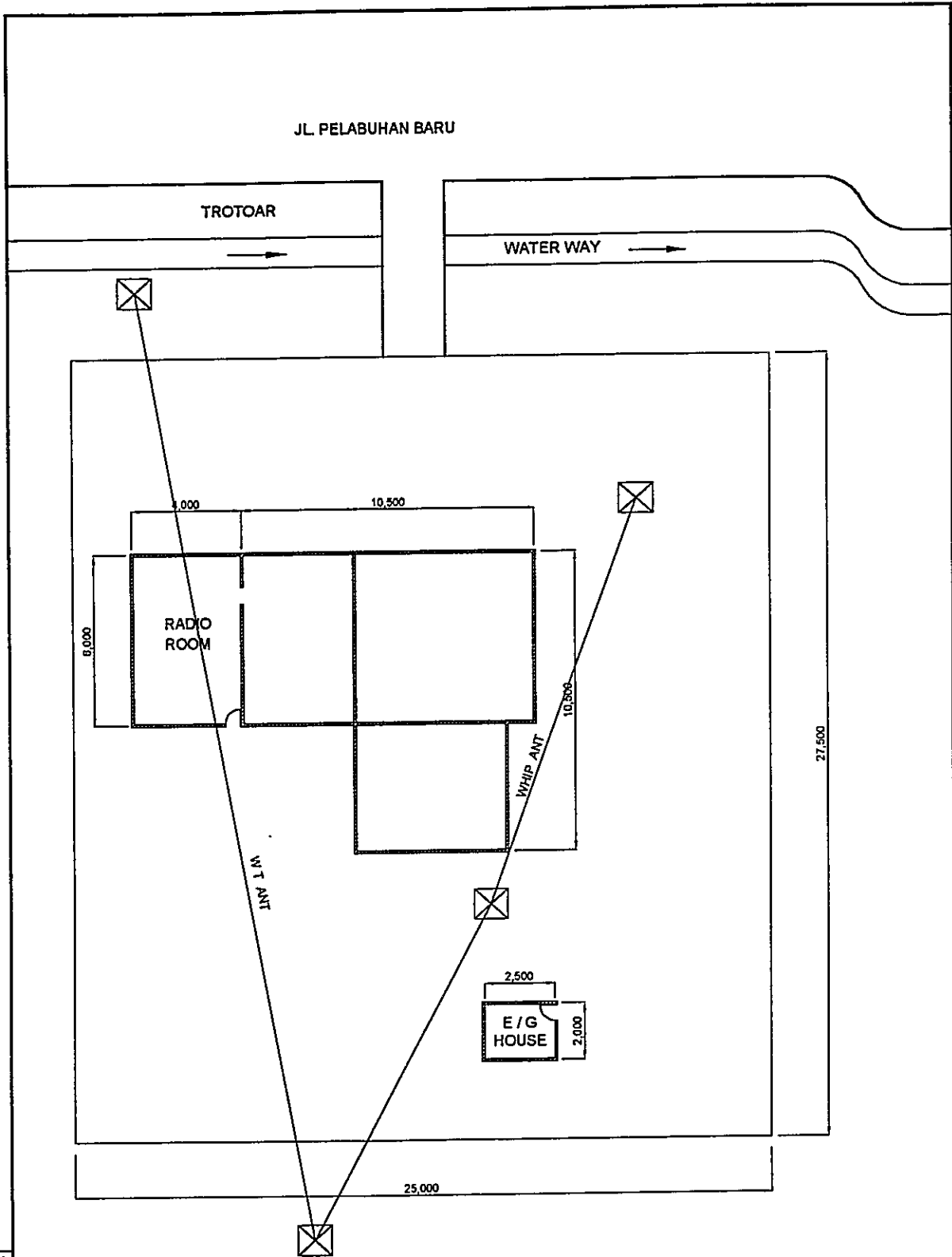
NNK-150-(1/1)

Item / Equipment	MF/HF Transceiver / -		
Manufacturer	PT. Citra Kirana		
Manufacturer in year	1981		
Defective panel / unit	Damaged		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	<input checked="" type="checkbox"/> Aging		<input type="checkbox"/> Immediacy
	<input type="checkbox"/> Lightning		<input type="checkbox"/> By next year budget
	<input type="checkbox"/> Corrosion		<input type="checkbox"/> By next project
	<input type="checkbox"/> Lack of Spares		<input checked="" type="checkbox"/> Unnecessary
	<input type="checkbox"/> Others		
<u>General Comment for Maintenance:</u>			



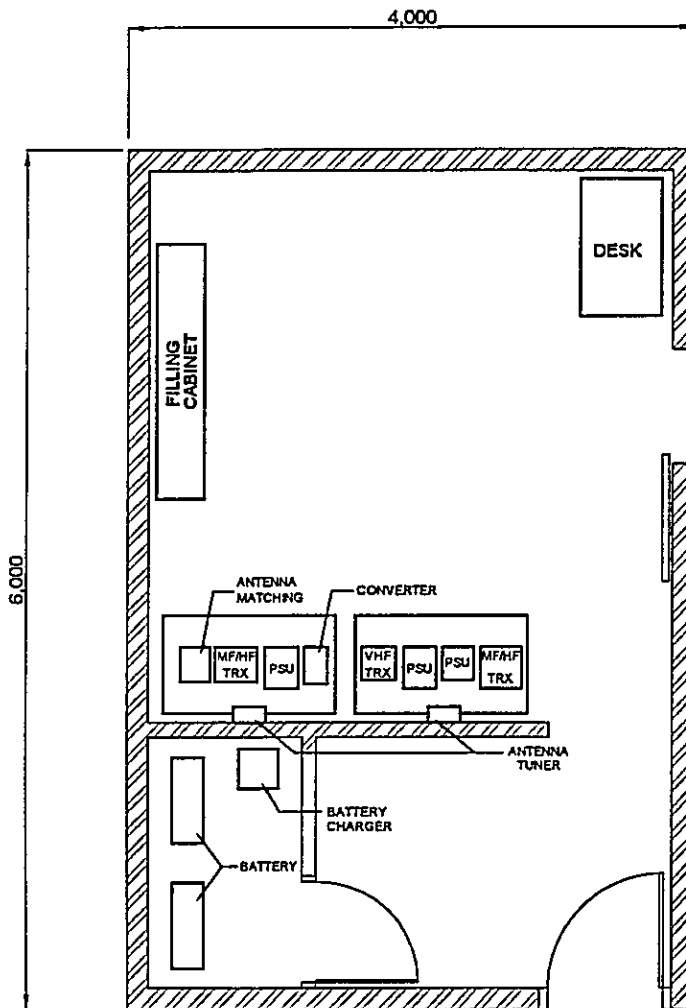
DRAWN BY AAB.
 APPROVED BY JICA


DATE	DRAWING TITLE	SHEET NO.
July 16, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 500,000	NUNUKAN	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - N, N, K, - 1, 5, 0, - 1,	
		 PT. Aneka Asia Buana



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 APPROVED BY JICA
[Signature]

DATE July 04, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1 / 1
SCALE 1 : 200	SITE NAME NUNUKAN	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - N, N, K, - 1, 5, 0, - 2,	
- PT. Aneka Asia Buana		

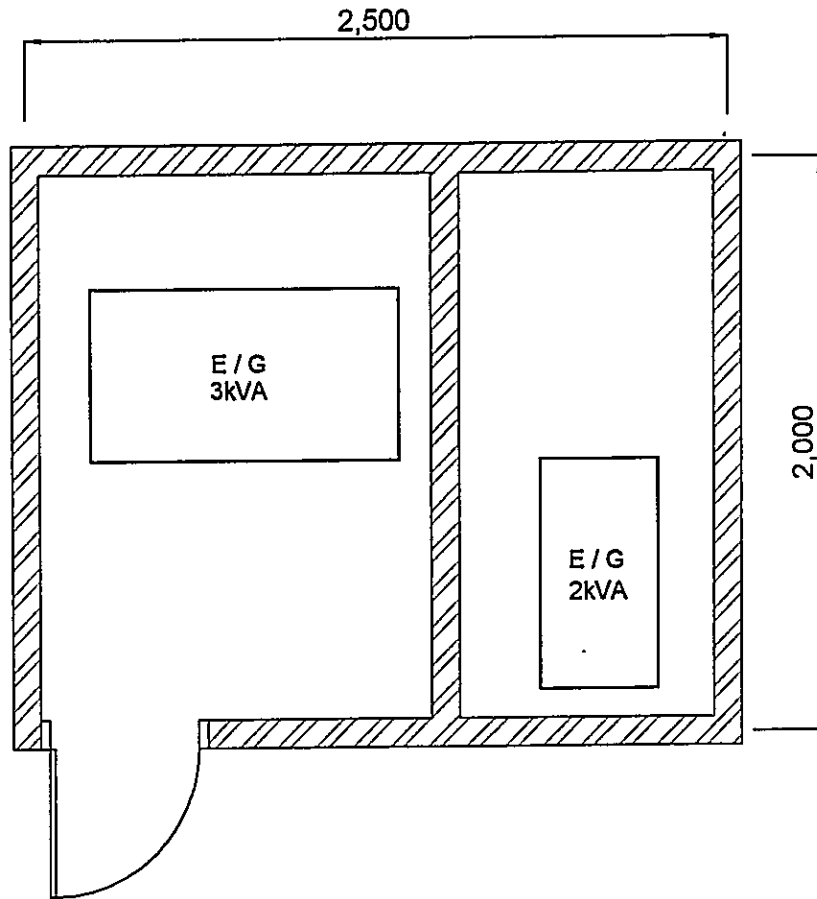


LEGEND

- AMU . ANTENNA MATCHING UNIT
- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- PSU : POWER SUPPLY UNIT
- TRX : TRANSCIVER (ING)
- VHF : VERY HIGH FREQUENCY

DRAWN BY AAB
 APPROVED BY JICA
[Signature]

DATE	DRAWING TITLE	SHEET NO
July 04, 2001	EQUIPMENT FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 50	NUNUKAN	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, N, N, K, -, 1, 5, 0, -, 3,	
- PT. Aneka Asia Buana		



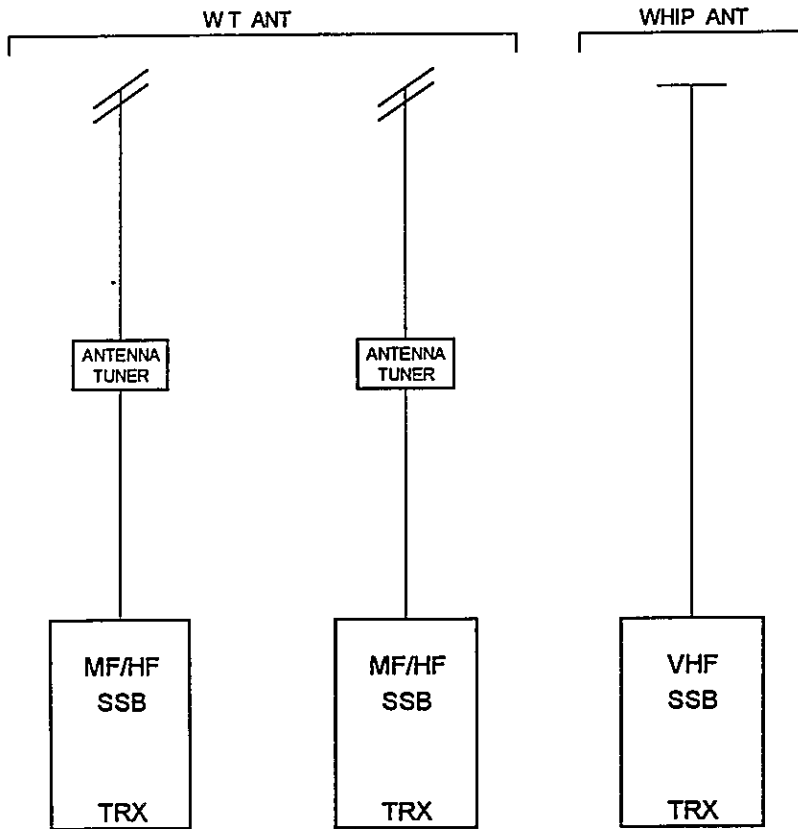
LEGEND

E/G : ENGINE GENERATOR
 KVA : KILO VOLT AMPERE

APPROVED BY JICA

 DRAWN BY AAB-



DATE July 04, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO. 1/1
SCALE 1 : 25	SITE NAME NUNUKAN	
DIMENSION Millimeter	DRAWING NO S, R, O, P, - N, N, K, - 1, 5, 0, - 4,	
- PT. Aneka Asia Buana		

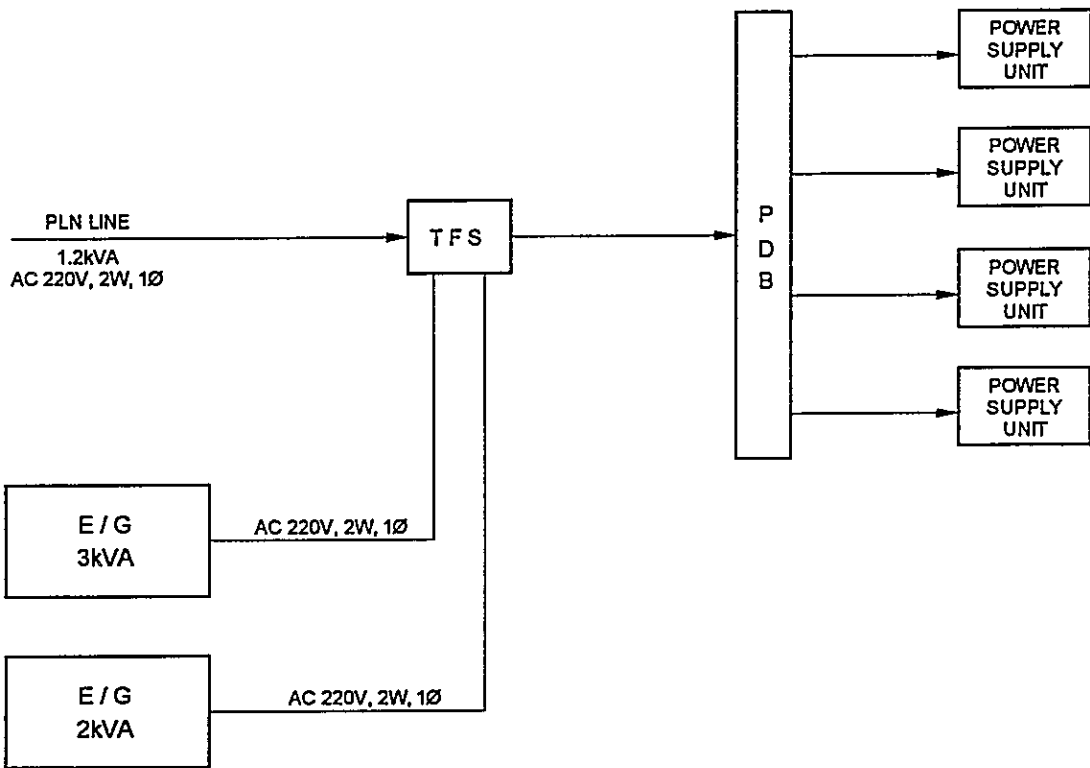


LEGEND

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

DRAWN BY AAB
 APPROVED BY JICA


DATE August 02, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME NUNUKAN	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - N, N, K, - 1, 5, 0, - 5,	
  PT. Aneka Asia Buana		



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

LEGEND

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

DATE August 02, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO. 1/1
SCALE No Scale	SITE NAME NUNUKAN	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, N, N, K, -, 1, 5, 0, -, 6,	
- PT. Aneka Asia Buana		

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

**4th-B Class Coast Station
Tg. Selor
(Coast Station No. 151)**

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	TG. SELOR		
	CLASS	4th-B	NO.	151

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				117° 22' 00" E	02° 48' 00" N

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

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

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

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System	
Type of roof	Zinc	Wire	2	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G	
Type of ceiling	Plywood	kVA	1,8	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	PC	Fluctuations	V ± 15 %	Day tank	Liter
Flooring	PC	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month		E/G Stand-by System	
Operation room	12.00	Total interpt. hours /month	7 Times	<input type="checkbox"/> Single System	
E / G room		Max. interpt. hours at once	7 Hours	<input type="checkbox"/> Dual System	
Remark					

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

SUMMARY OF COAST STATION	SITE	TG. SELOR		
	CLASS	4th-B	NO.	151

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

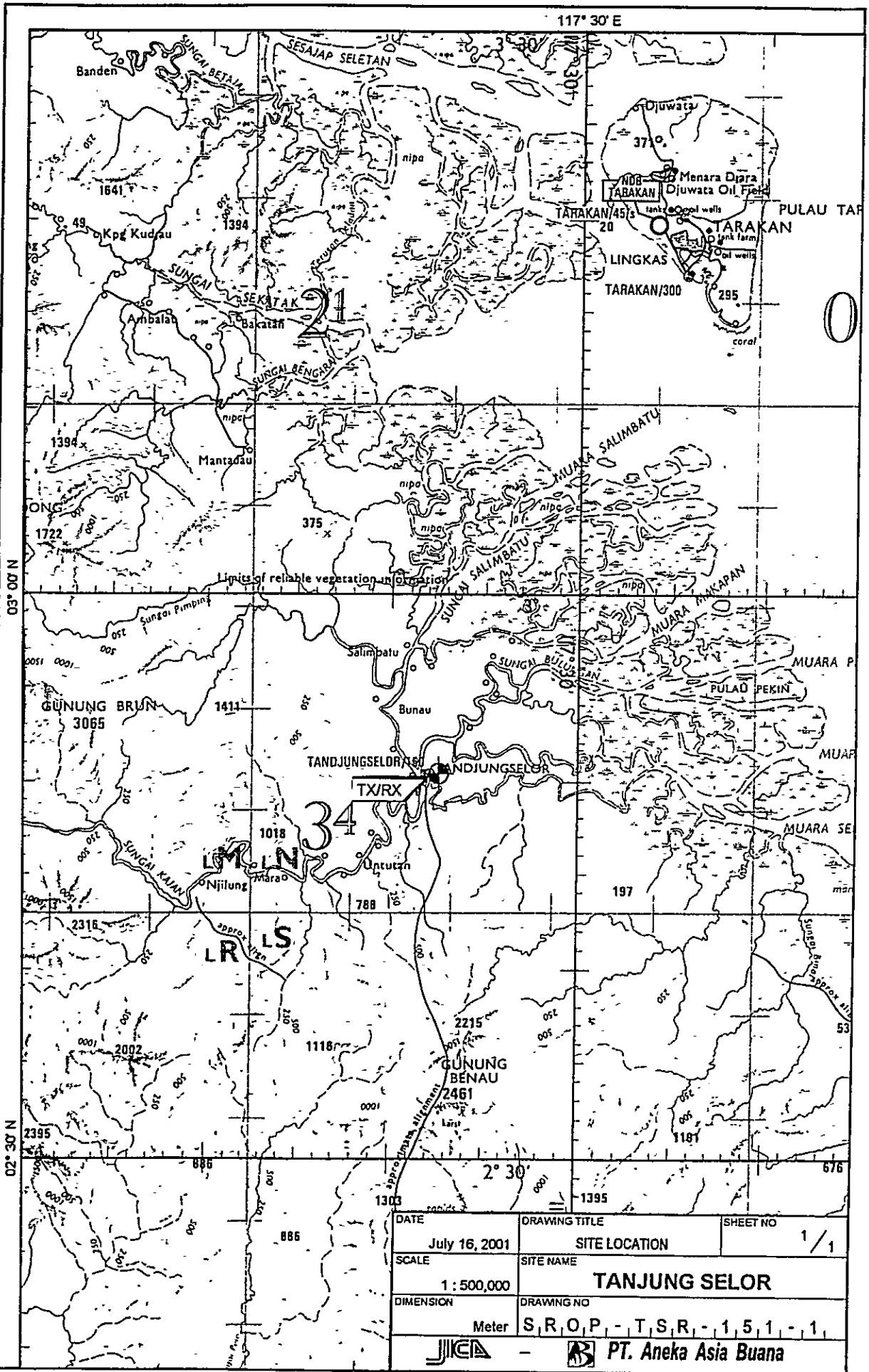
7. COMMENTS	
Suggestion	Maritime Telecommunications covered by Tarakan Coast Station SSB/HF Transceiver for fixed/point to point Request for VHF facility and telephone call
Remarks	No Data (Operated by Kanpel Staff)

INVENTORY

Site Name: Tanjung Selor

TSR-151-(1/1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
Data not Available due to no Response from Coast Station									



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

DATE	DRAWING TITLE	SHEET NO
July 16, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 500,000	TANJUNG SELOR	
DIMENSION	DRAWING NO	
Meter	S, R, O, P, - T, S, R, - 1, 5, 1, - 1,	

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

**4th-B Class Coast Station
Tg. Redeb
(Coast Station No. 152)**

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	TG. REDEP		
	CLASS	4th-B	NO.	152

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pulau Derawan No. 388			117° 28' 00" E	02° 08' 00" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Balikpapan [Taking time: 1:30 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	118,960
By Air	to TG. Redep [Taking time: 2:30 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input type="checkbox"/> Motel	
By Car	to Location [Taking time: 1:00 hr.]	<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> None		

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

3.1 Site Conditions				
Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes No
<input type="checkbox"/> Slope	<input checked="" type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/> <input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/> <input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> <input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy			<input checked="" type="checkbox"/> <input type="checkbox"/> Lightning system
Altitude	4.00 M		Telephone Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way
Land area	1,300 m ²		<input type="checkbox"/> Lines	<input checked="" type="checkbox"/> <input type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System	
Type of roof	Zinc	Wire	2	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G	
Type of ceiling	plywood	kVA		<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	PC	Fluctuations	V ± %	Day tank	Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	15 Times	E/G Stand-by System	
Operation room	3.00	Total interpt. hours /month	20 Hours	<input type="checkbox"/> Single System	
E / G room		Max. interpt. hours at once	6 Hours	<input type="checkbox"/> Dual System	
Remark	No Data (Operated by Kanpel staff)				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow	Repaired in Tarakan			Chief				
Examples of major failure				Operator (skilled)	1	0	0	
Sufficiency of spares				Technician (skilled)	0	0	0	
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input type="checkbox"/>	<input checked="" type="checkbox"/>	External noises	Total			
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air pollution	1			
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	TG. REDEP		
	CLASS	4th-B	NO.	152

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	Communications between SSB and VHF does not active
Remarks	

INVENTORY

Site Name: Tanjung Redeb

TRB-152- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
Data not Available due to no Response from Coast Station									

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

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

**1ST CLASS DISTRICT NAVIGATION AREA (18)
MAKASSAR**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

1st Class District Navigation Area (18) Makassar

Table of Content

DISNAV	18	Makassar	1st Class
KANWIL	18	Makassar	
KPLP	18	Makassar	
SROP	153	Makassar	1st Class
	154	Pare-pare	4th-A Class
	155	Mamuju	4th-A Class
	156	Palopo	4th-A Class
	157	Bulukumba	4th-B Class
	158	Majene	4th-B Class
	159	Bajoe	4th-B Class
	160	Selayar	4th-B Class
	161	Polewali	4th-B Class
	162	Sinjai	4th-B Class
	163	Jeneponto	4th-B Class

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

**1st Class District Navigation Office (Area-18)
Makassar**

Table of Content

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

Note :

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF DISNAV	SITE	MAKASSAR		
	CLASS	1st	NO.	18

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Madura No. 2, Ujung Pandang 90111	0411-320987,327505	0411-320987	119° 24' 28" E	05° 07' 34.1" S

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Makassar [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	
By Car to Location [Taking time 0.30 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
		<input type="checkbox"/> None		

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

3.1 Site Conditions			
Topography	Nature of Soil	Past disaster of site	Confirmation of existing system
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> <input checked="" type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input type="checkbox"/> Ground Subsidence	<input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy		<input type="checkbox"/> <input checked="" type="checkbox"/> Lightning system
Altitude	10 m	Telephone Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way
Land area	315 m ²	<input checked="" type="checkbox"/> 2 Lines	<input checked="" type="checkbox"/> <input type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions
Num. of story	Two	Voltage	220 V	Good Bad
Structure	Concrete	Phase	3	<input type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Plasterboard	Wire	4	<input type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Asbestos	kVA	5.9	<input type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine
Wall finish	Mortar	Fluctuations	220 V ± 10 %	Day tank
Flooring	Tile	Availability of power per day	24 Hours	Main tank
Room Area (m²)		Power interruption /month	5 Times	E/G Stand-by System
Operation room		Total interpt. hours /month	10 Hours	<input type="checkbox"/> Single System
E / G room		Max. interpt. hours at once	2 Hours	<input type="checkbox"/> Dual System
Remark				

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

SUMMARY OF DISNAV	SITE	MAKASSAR		
	CLASS	1st	NO.	18

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

7. COMMENTS	
Suggestion	Equipment facility same as equipment facility in Kanwil
Remarks	

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

**Kanwil Office (Disnav Area - 18)
Makassar**

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	MAKASSAR		
	CLASS		NO.	18

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Madura No 1	327505	320987	119° 24' 26.7" E	05° 07' 32.1" N

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Makassar [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	
By Car to Location [Taking time 0.45 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
		<input type="checkbox"/> None		

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

3.1 Site Conditions			
Topography	Nature of Soil		Past disaster of site
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy		
Altitude	10 m	Telephone Lines	<input checked="" type="checkbox"/> Feeder Cable Way
Land area	315 m ²	<input type="checkbox"/> Lines	<input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	Two	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	3	<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System	
Type of roof	Zinc	Wire	4	<input type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Triplex	kVA	5.9	<input type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	220 V ± 10 %	Day tank	Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m²)		Power interruption /month	5 Times	E/G Stand-by System	
Operation room	2.50	Total interpt. hours /month	10 Hours	<input type="checkbox"/> Single System	
E / G room		Max. interpt. hours at once	2 Hours	<input type="checkbox"/> Dual System	
Remark					

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

SUMMARY OF KANWIL	SITE	MAKASSAR		
	CLASS		NO.	18

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

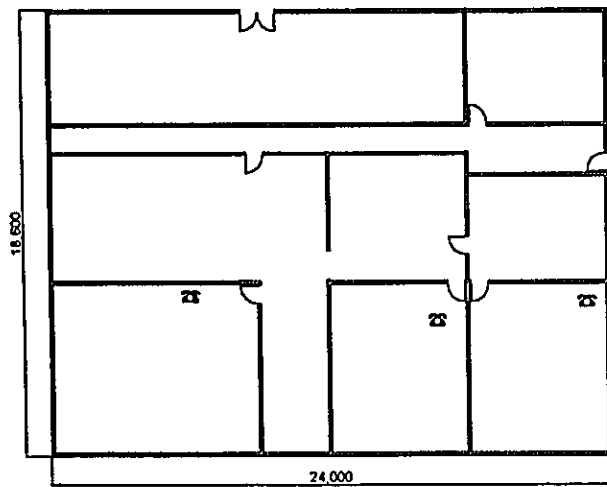
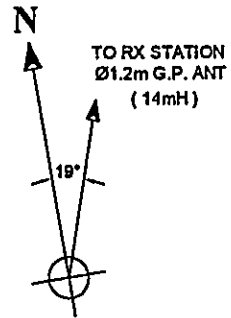
7. COMMENTS	
Suggestion	Equipment facility is better removed to Makassar Coast Station, because Makassar Coast Station also work for Communication Facility (SARCOM)
Remarks	

INVENTORY

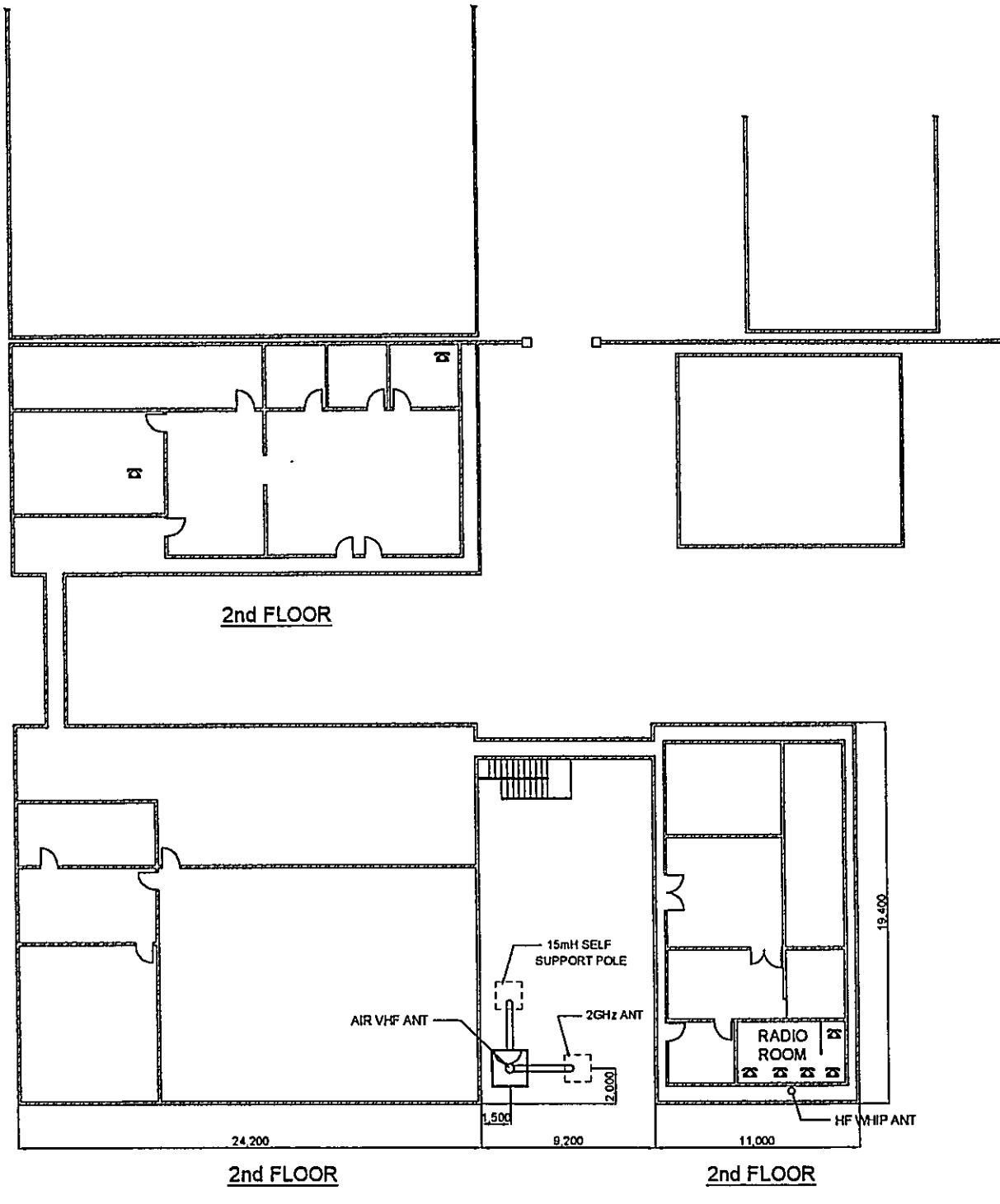
Site Name: Kanwil Makassar

KWIL-MKS-XVIII-(1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Remote Control System							
1		DRCS-SS Type-III	-	ET-12134-1	JRC	1990	SAR Project		Good
2		DRCS-SS Type-III	-	ET-12134-2	JRC	1990	SAR Project		Good
1-2		Search & Monitor Console							
1		SAR Console	II-1	BP-91898	JRC	1989	SAR Project		Good
2		- Speaker Panel	NVA-64	-	JRC	1989	SAR Project		Good
3		- TX Telecontroller	NCH-3000P	-	JRC	1989	SAR Project		Good
4		- Scanning Unit	NDH-93	-	JRC	1989	SAR Project		Good
5		- Receiver	NRD-93	-	JRC	1989	SAR Project		Good
6		- Dialing Unit	NQU-13A	-	JRC	1989	SAR Project		Good
7		- Signal Controller	NQP-21	-	JRC	1989	SAR Project		Good
8		- RX Controller	NCG-95	-	JRC	1989	SAR Project		Good
9		- Digital Clock	NKH-17	-	JRC	1989	SAR Project		Good
10		- Auto Alarm 2182 KHz Monitor	CCN-18	-	JRC	1989	SAR Project		Damaged
11		- Telephone Device	NQW-143	-	JRC	1989	SAR Project		Good
1-3		VHF System							
1		Air VHF Radio	NTE-26	-	JRC	1989	SAR Project		Good
2		Power Supply Equipment							
2-1		Power Distribution Board							
1		BPS Type-1		167064	JRC	1989	SAR Project		Not So Good
2		BPS Type-2		S6493	JRC	1989	SAR Project		Not So Good



1st FLOOR



2nd FLOOR

2nd FLOOR

2nd FLOOR

SEA

SEA

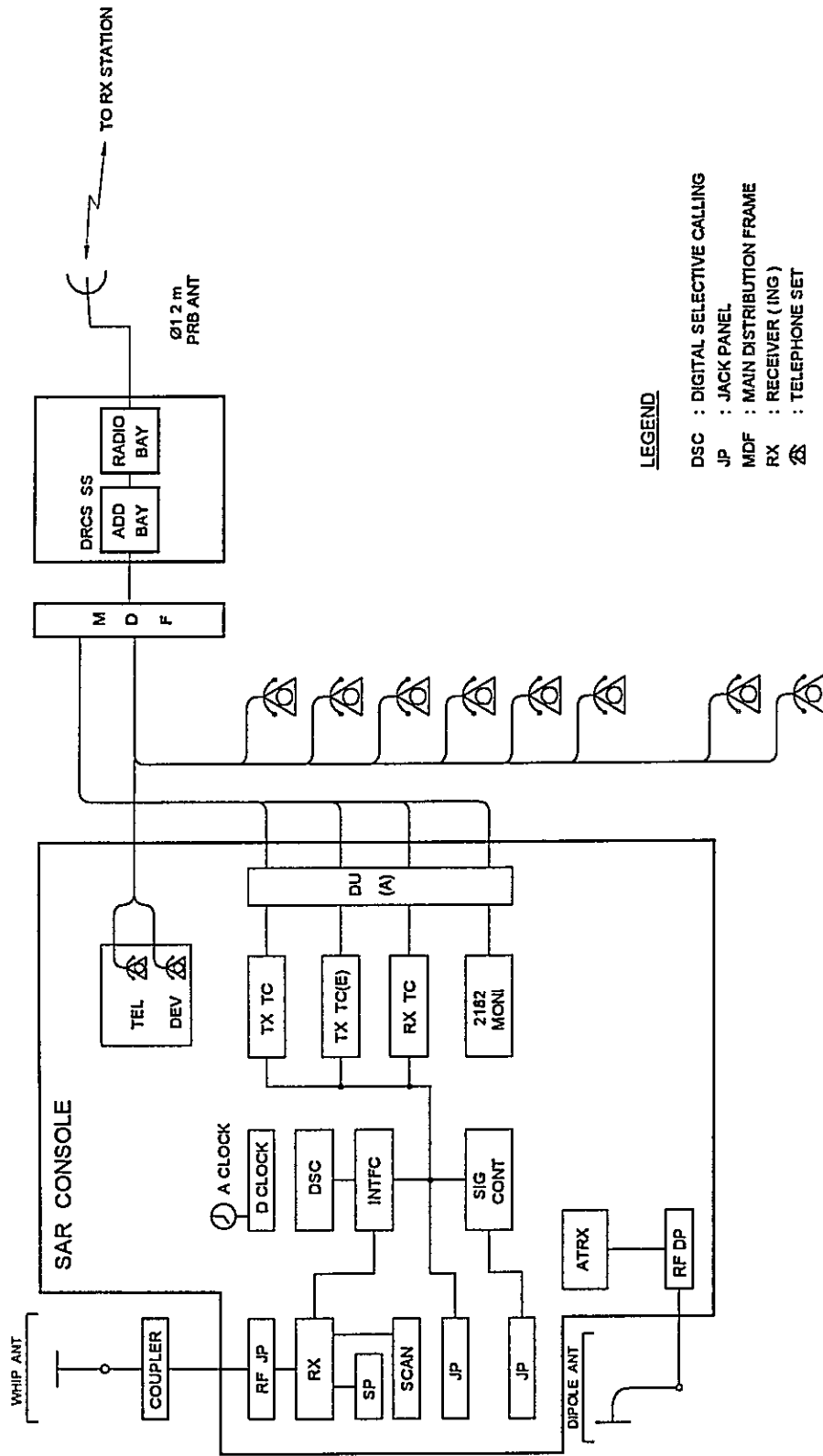
LEGEND

- ANT : ANTENNA
- HF : HIGH FREQUENCY
- VHF : VERY HIGH FREQUENCY
- ☎ : TELEPHONE

DATE	July 10, 2001	DRAWING TITLE	ANTENNA LAYOUT	SHEET NO.	1/1
SCALE	1 : 300	SITE NAME	MAKASSAR		
DIMENSION	Millimeter	DRAWING NO.	K, W, I, L, - M, K, S, - 1, 5, 3, - 2, 1		

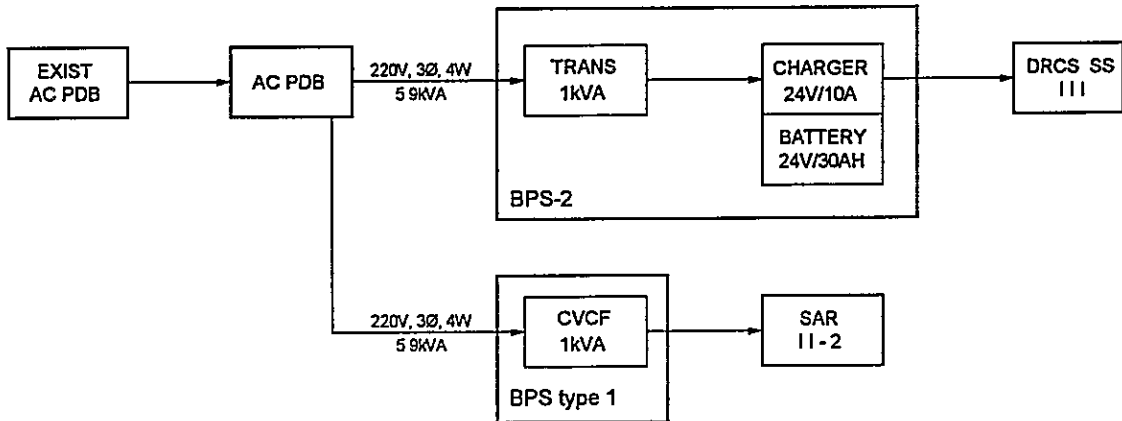
DRAWN BY AAB
 APPROVED BY JICA

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



LEGEND
 DSC : DIGITAL SELECTIVE CALLING
 JP : JACK PANEL
 MDF : MAIN DISTRIBUTION FRAME
 RX : RECEIVER (ING)
 ☎ : TELEPHONE SET

DATE	DRAWING TITLE	SHEET NO
July 09, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	MAKASSAR	
DIMENSION	DRAWING NO	
Milimeter	K, W, I, L, - M, K, S, - 1, 5, 3, - 5,	
- PT. Aneka Asia Buana		



LEGEND

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

APPROVED BY JICA:
 DRAWN BY AAB:

DATE July 09, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO. 1 / 1
SCALE No Scale	SITE NAME MAKASSAR	
DIMENSION Milimeter	DRAWING NO. K, W, I, L, - M, K, S, - 1, 5, 3, - 6,	
- PT. Aneka Asia Buana		

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

**ADPEL/KPLP Office (Disnav Area - 18)
Makassar**

Table of Content

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

Note :

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF ADPEL / KPLP	SITE	MAKASSAR		
	CLASS		NO.	XVIII

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Hatta No. 2	0411-327555	0411-323656	119° 24' 33.1" E	05° 07' 17.1" S

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Makassar [Taking time: 2.00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	1,000,000
By Car to Location [Taking time: 0:30 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
	<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
		<input type="checkbox"/> None		

3. CONDITIONS OF ADPEL/KPLP OFFICE	Refer to attached drawing
---	---------------------------

3.1 Site Conditions			
Topography	Nature of Soil	Past disaster of site	Confirmation of existing system
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Flood	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/> <input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/> <input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> <input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy		<input type="checkbox"/> <input checked="" type="checkbox"/> Lightning system
Altitude	10 m	Telephone Lines	<input checked="" type="checkbox"/> <input type="checkbox"/> Feeder Cable Way
Land area	1,800 m ²	<input type="checkbox"/> Lines	<input checked="" type="checkbox"/> <input type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	Two	Voltage	110 V	Good Bad	
Structure	Concrete	Phase	3	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Zinc	Wire	4	<input type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Asbestos	kVA	5.9	<input type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	220 V ± 10 %	Day tank	Liter
Flooring	Ceramic	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m²)		Power interruption /month	5 Times	E/G Stand-by System	
Operation room	20.00	Total interpt. hours /month	5 Hours	<input type="checkbox"/> Single System	
E / G room		Max. interpt. hours at once	1 Hours	<input type="checkbox"/> Dual System	
Remark					

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

SUMMARY OF ADPEL / KPLP	SITE	MAKASSAR		
	CLASS	NO.	XVIII	

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			

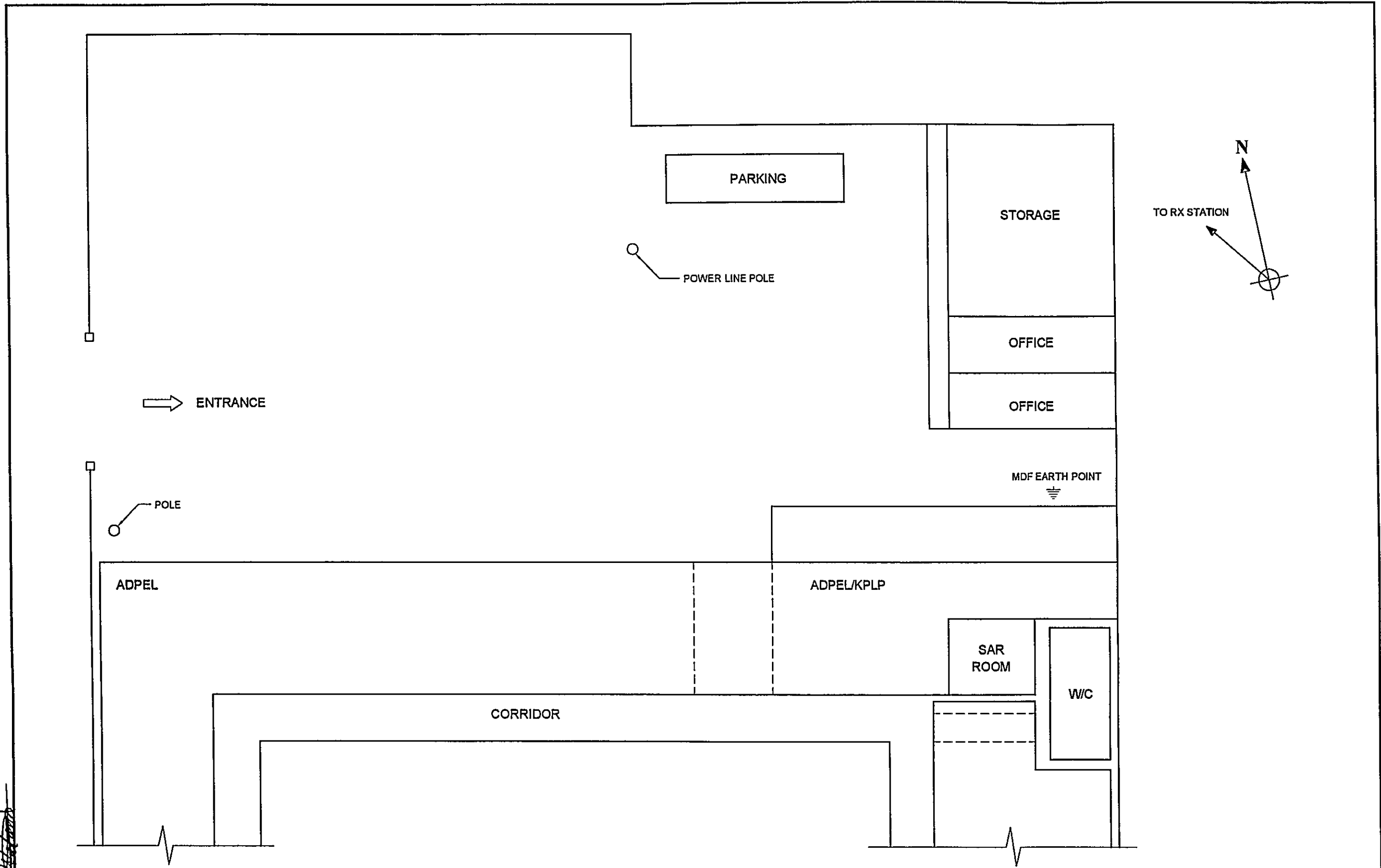
7. COMMENTS	
Suggestion	
Remarks	

INVENTORY

Site Nama: Adpel-Kplp Makassar

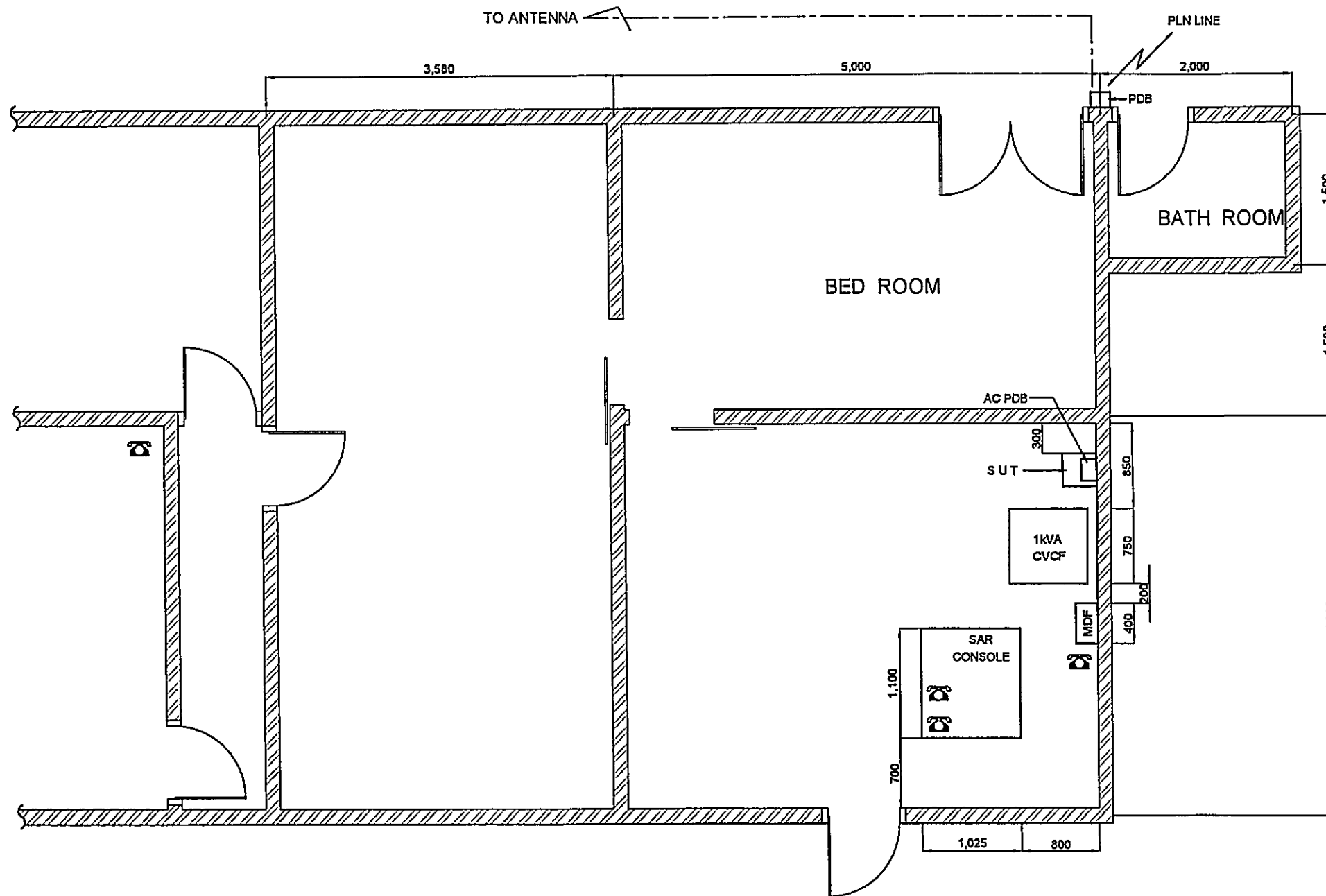
KPLP-MKS-XVIII-(1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Search & Monitor Console	BP-91913		JRC	1989	SAR Project		Good
2		SAR Console-III-2	NQU-13A	-	JRC	1989	SAR Project		Good
3		- Dialing Unit	NKH-17	-	JRC	1989	SAR Project		Good
4		- Digital Clock	NQW-143	-	JRC	1989	SAR Project		Good
		- Telephone Device							
1-2		VHF System							
1		VHF Telecontroller	NQU-134	-	JRC	1989	SAR Project		Good
2		Power Supply Equipment							
2-1		Power Distribution Board							
1		MDF	Shoden	S-18753	JRC	1989	SAR Project		Good
2		Back up Power Supply	167089	-	JRC	1989	SAR Project		Not so Good
3		BPS Type-3 (2 Unit)			JRC	1989	SAR Project		Good



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 APPROVED BY JICA: *[Signature]*

DATE	DRAWING TITLE	SHEET NO
July 10, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 200	MAKASSAR	
DIMENSION	DRAWING NO.	
Millimeter	K, P, L, P, -, M, K, S, -, 1, 5, 3, -, 2, 1	

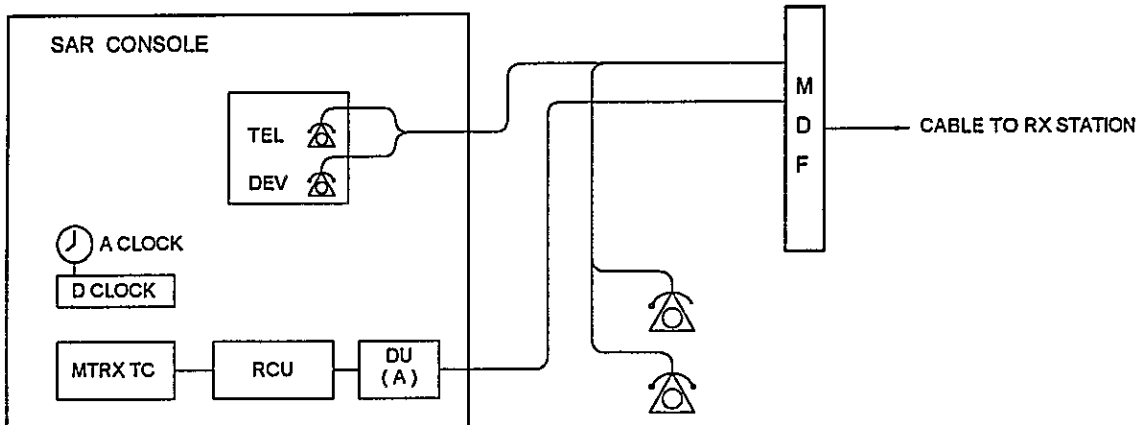


LEGEND

- AC . ALTERNATING CURRENT
- MDF . MAIN DISTRIBUTION FRAME
- PDB . POWER DISTRIBUTION BOARD
- SUT : STEP - UP TRANSFORMER
- ☎ . TELEPHONE SET

DATE July 10, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1/2
SCALE 1 : 50	SITE NAME MAKASSAR	
DIMENSION Millimeter	DRAWING NO K, P, L, P, - M, K, S, - 1, 5, 3, - 3, 1	
-		PT. Aneka Asia Buana

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 APPROVED BY JICA:
 APPROVED BY AAB:

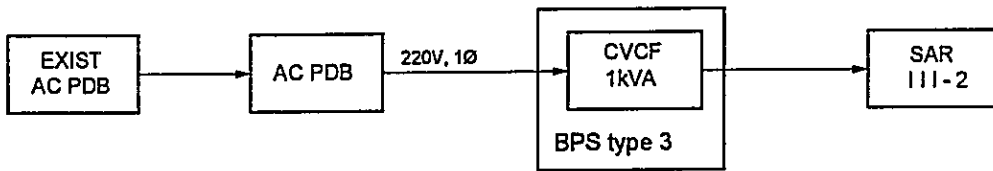


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 APPROVED BY JICA
[Signature]

LEGEND

- MDF - MAIN DISTRIBUTION FRAME
- TEL TELEPHONE
- RX RECEIVER (ING)
- TELEPHONE SET

DATE	DRAWING TITLE	SHEET NO
July 09, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	MAKASSAR	
DIMENSION	DRAWING NO.	
Milimeter	K, P, L, P, -, M, K, S, -, 1, 5, 3, -, 5,	
- PT. Aneka Asia Buana		

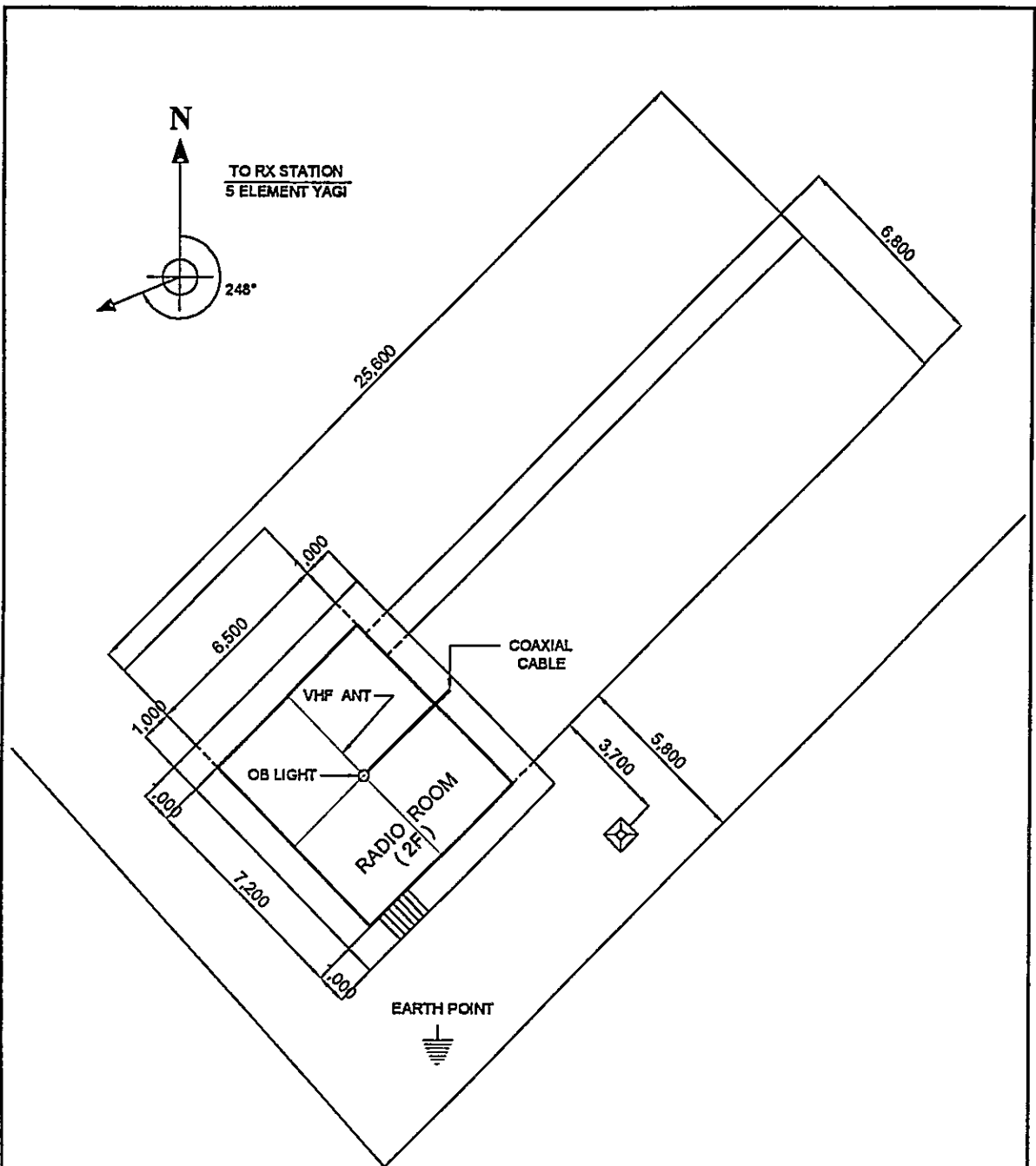


LEGEND

AC · ALTERNATING CURRENT
 kVA · KILO VOLT AMPERE
 PDB POWER DISTRIBUTION BOARD
 V VOLT
 Ø PHASE

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

DATE July 09, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME MAKASSAR	
DIMENSION Milimeter	DRAWING NO K, P, L, P, - M, K, S, - 1, 5, 3, - 6	
- PT. Aneka Asia Buana		



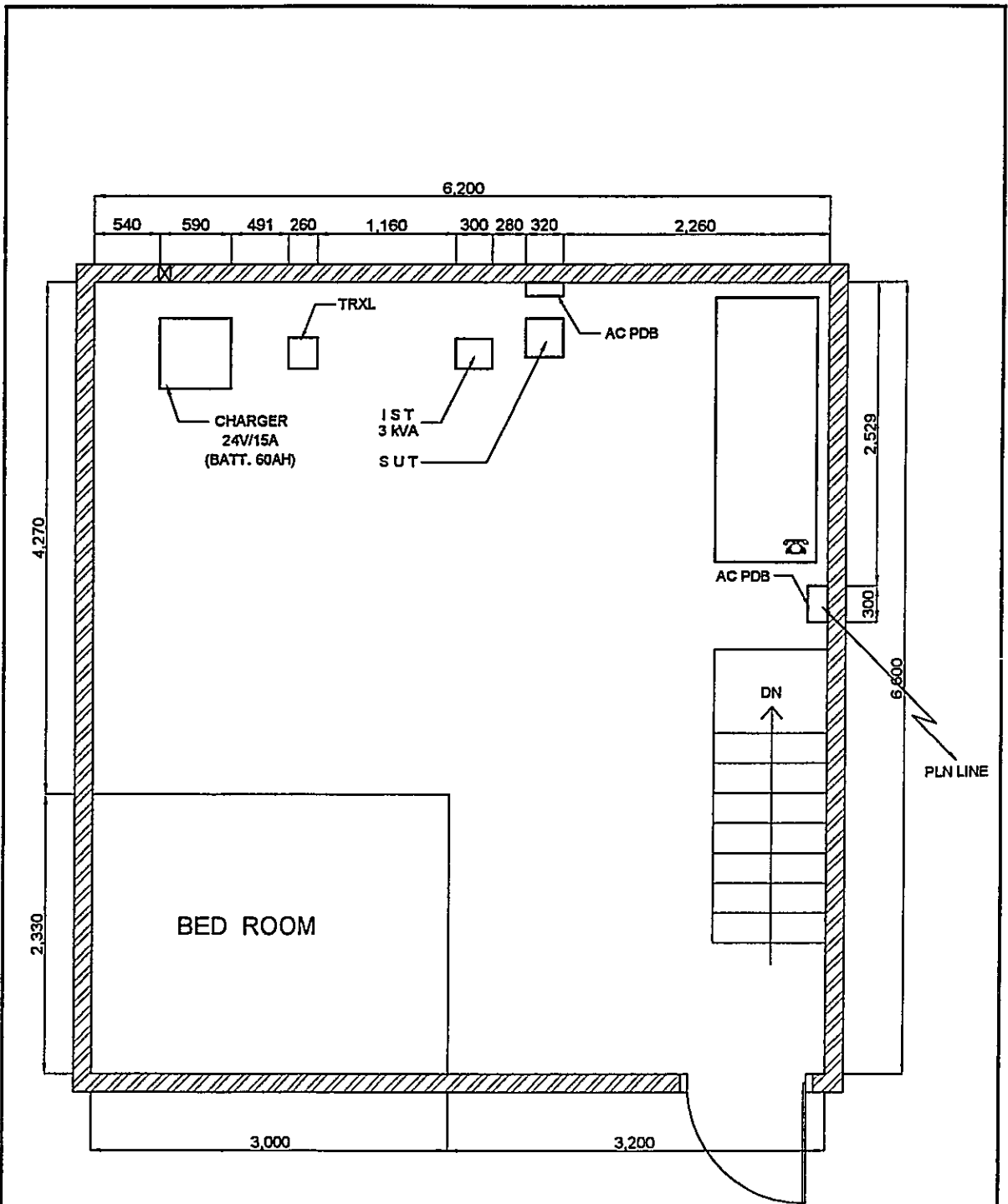
APPROVED BY JICA
 DRAWN BY AAB

LEGEND

ANT : ANTENNA

VHF : VERY HIGH FREQUENCY

DATE	DRAWING TITLE	SHEET NO.
July 10, 2001	ANTENNA LAYOUT	1/1
SCALE	SITE NAME	
1 : 200	MAKASSAR	
DIMENSION	DRAWING NO	
Millimeter	K, K, R, - M, K, S, - 1, 5, 3, - 2,	
- PT. Aneka Asia Buana		

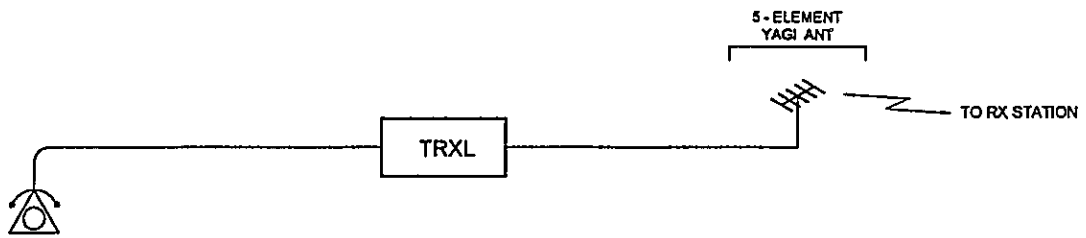


DRAWN BY: AAB
 APPROVED BY: JCA


LEGEND

- AC : ALTERNATING CURRENT
- IST : ISOLATION TRANSFORMER
- KVA : KILO VOLT AMPERE
- PDB : POWER DISTRIBUTION BOARD
- SUT : STEP - UP TRANSFORMER
- V : VOLT
- ☎ : TELEPHONE SET



DATE	DRAWING TITLE	SHEET NO
July 10, 2001	EQUIPMENT FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 50	MAKASSAR	
DIMENSION	DRAWING NO.	
Milimeter	K, K, R, - M, K, S, - 1, 5, 3, - 3	

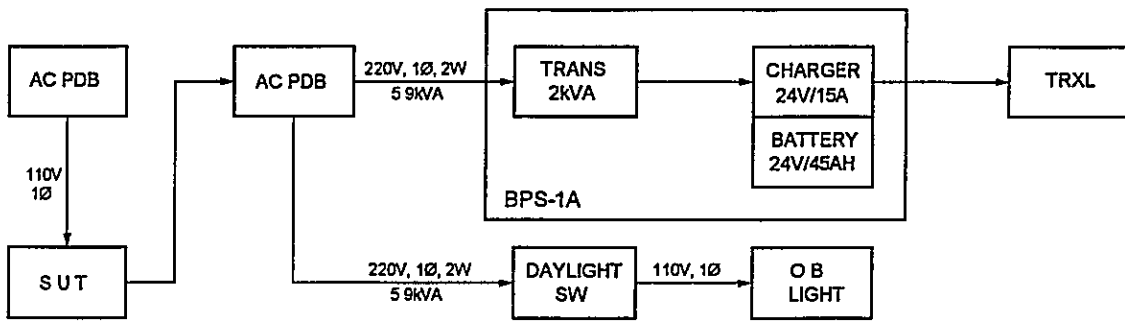


LEGEND

- ANT - ANTENNA
- MDF - MAIN DISTRIBUTION FRAME
-  TELEPHONE

DRAWN BY AAB: 
 APPROVED BY JICA: 



DATE	DRAWING TITLE	SHEET NO.
July 09, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	MAKASSAR	
DIMENSION	DRAWING NO.	
Milimeter	K, K, R, -, M, K, S, -, 1, 5, 3, -, 5,	
 -  PT. Aneka Asia Buana		



LEGEND

- AC : ALTERNATING CURRENT
- KVA : KILO VOLT AMPERE
- PDB POWER DISTRIBUTION BOARD
- SUT STEP - UP TRANSFORMER
- V : VOLT
- Ø : PHASE

APPROVED BY JICA: 
 DRAWN BY AAB: 

DATE July 09, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME MAKASSAR	
DIMENSION Milimeter	DRAWING NO. K, K, R, - , M, K, S, - , 1, 5, 3, - , 6,	
 -  PT. Aneka Asia Buana		

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

**1st Class Coast Station
Makassar
(Coast Station No. 153)**

Table of Content

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

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

Note :

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

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION	SITE	MAKASSAR		
	CLASS	1st	NO.	153

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
RX	Jl. Hatta No. 1 Pelabuhan Sukarno	0411-322886, 319282	0411-322886	119° 24' 31" E	05° 07' 14" S
TX	JL. S. Abdullah No. 42	452303		119° 26' 20" E	05° 06' 30" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Makassar [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	1,000,000
By Car	to Location [Taking time: 0.30 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
		<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
			<input type="checkbox"/> None		

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

3.1 Site Conditions						
Topography	Nature of Soil		Past disaster of site	Confirmation of existing system		
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input checked="" type="checkbox"/> Flood	Yes	No	
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna	
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/>	<input type="checkbox"/> Towers (Masts)	
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/> Grounding system	
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system	
Altitude	10.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way	
Land area	1,350 m ²		<input checked="" type="checkbox"/> 2 Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> City water	
3.2 Building Conditions			3.3 Power Source			
Constructions		PLN Source	E/G	Existing Power Conditions		
Num. of story	One	Voltage	220 V	110 V	Good Bad	
Structure	Concrete	Phase	3	1	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Asbestos	Wire	4	2	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling	Asbestos	kVA	13	5	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine		
Wall finish	Mortar	Fluctuations	220 V ± 10 %		Day tank	20 Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter	
Room Area (m ²)		Power interruption /month	2 Times	E/G Stand-by System		
Operation room	120.00	Total interpt. hours /month	4 Hours	<input type="checkbox"/> Single System		
E / G room	33.29	Max. interpt. hours at once	3 Hours	<input checked="" type="checkbox"/> Dual System		
Remark						

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

Site Conditions					
Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input checked="" type="checkbox"/> Flood	Yes	No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/>	<input type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	2.00 m		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	20.000 m ²		<input checked="" type="checkbox"/> Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> City water

SUMMARY OF COAST STATION	SITE	MAKASSAR		
	CLASS	1st	NO.	153

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	110 V	Good Bad	
Structure	Concrete	Phase	3	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of roof	Asbestos	Wire	4	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of ceiling		kVA	4.5	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of AVR	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	110 V ± 10 %	Day tank	20 Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m²)		Power interruption /month	2 Times	E/G Stand-by System	
Operation room	93.30	Total interpt. hours /month	4 Hours	<input type="checkbox"/> Single System	
E / G room	70.00	Max. interpt. hours at once	3 Hours	<input checked="" type="checkbox"/> Dual System	
Remark					

5. OPERATION AND MAINTENANCE				6. PERSONNEL FORMATIONS				
Actions taken in equipment failure					RX	TX		
Restoration flow	Repaired by him self			Chief	1	1		
Examples of major failure				Operator (skilled)	27 (26)	12 (12)		
Sufficiency of spares	Not Enough			Technician (skilled)	1 (1)	4 (3)		
Records of damages		Environmental Conditions		Administrator	6			
<input type="checkbox"/> Heavy rainfall		Good	Bad					
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises	Total	35,34		17	
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/> Air pollution					
<input type="checkbox"/> Other calamity								
Institutional and Human Statuses				Training Record				
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
4 Number of Operator	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough					
6 Capability of Operator	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					
7 Capability of Technician	<input type="checkbox"/> Skilled	<input checked="" type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					

7. STATISTICAL COMMUNICATION TRAFFIC DATA												
Maritime Safety					Public Telecommunication Service							
Years	TG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991				1996			
1997					1992				1997			
1998					1993				1998			
1999	2	3			1994				1999			
2000	8	6		10	1995				2000	501	186	729

8. COMMENTS	
Suggestion	Activity for public correspondence decreased, especially for communications by using telegraph, because ship make direct communication with agent/ownership by using Inmarsat facility.
Remarks	

INVENTORY

Site Name: Makassar

MKS-153- (1 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Transmitter							
1-1		Transmitter							
1		1KW MF Transmitter	JRS-10BP	BS-62123	JRC	1989	F-TA-193:PH2		Good
2		1KW MF Transmitter	JRS-10BP	BS-63478	JRC	1995	F-TA-193:PH3		Good
3		1KW HF TX NBDP	JRS-713AM	BS-63509	JRC	1995	F-TA-193:PH3		Good
4		1KW HF TX DSC	JRS-713AM	BS-63508	JRC	1995	F-TA-193:PH3		Good
5		1KW MF/HF Transmitter	JRS-106NB	BS-61494	JRC	1985	F-TA-193:PH1		Good
6		1KW MF/HF Transmitter	JRS-106NB	BS-61495	JRC	1985	F-TA-193:PH1		Good
7		1KW MF/HF Transmitter	JRS-106NB	BS-61496	JRC	1985	F-TA-193:PH1		Good
8		1KW HF Transmitter	JRS-106NB	BS-61398	JRC	1985	F-TA-193:PH1		Good
9		1KW HF Transmitter (SAR)	JRS-106NB	BS-62090	JRS	1990	SAR Project		Good
10		1KW HF Transmitter	JRS-106NB	BS-62091	JRC	1990	SAR Project		Good
11		1KW MF TX (NAVTEX)	JRS-108P	BS-63478	JRC	1996	F-TA-193:PH3		Good
12		1KW HF TX (DSC)	JRS-713AM	BS-63508	JRC	1996	F-TA-193:PH3		Good
13		1KW HF TX (NBDP)	JRS-713AM	BS-63509	JRC	1996	F-TA-193:PH3		Good
14		1kW MF/HF Transmitter (MOBIL)	JRS-713AM	JF00035	JRC	1997	F-TA-193:PH3		Good
1-2		Remote Control System							
1-2-1		Remote Control							
1		Remote Control Rack	GED-1049B	BP-98018	JRC	1985	F-TA-193:PH1		Good
2		Local Terminal Unit	JCC-300RL8	BP-89307	JRC	1985	F-TA-193:PH1		Good
3		Local Terminal Unit	JCC-300RL8	BP-89308	JRC	1985	F-TA-193:PH1		Good
4		Local Terminal Unit	JCC-300RL8	BP-89388	JRC	1987	F-TA-193:PH1		Good
5		Multiplex Radio Relay	JUP-450	EM-11648	JRC	1987	F-TA-193:PH1		Good
6		Multiplex Radio Relay	JUP-450	EM-11649	JRC	1987	F-TA-193:PH1		Good
7		Multiplex Equipment (12/24Ch)	JUP-5A	EP-119447	JRC	1985	F-TA-193:PH1		Good
8		Voice Frequency Telegraph	JUT-1A	EQ-1284B	JRC	1985	F-TA-193:PH1		Good
9		Main Distribution Frame	NCE-40A2	BP-1346B	JRC	1987	F-TA-193:PH1		Good
10		Telephone Repeater	JUR-5A	EQ-1281B	JRC	1985	F-TA-193:PH1		Good
11		Remote Control & Morse Rack	GED-1050B	BP-89022	JRC	1985	F-TA-193:PH1		Good
12		Remote Control Unit	JCC-300RQS	BP-89323	JRC	1985	F-TA-193:PH1		Good
13		Morse Transmitter	NGK-2	BS-61454	JRC	1985	F-TA-193:PH1		No Good

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MKS-153- (2 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
14		Multiplex Terminal Equipment	JUF-5A	EP-11948	JRC	1985	F-TA-193:PH1		Good
15		Voice Frequency Telegraph	JUT-1A	EQ-12844	JRC	1985	F-TA-193:PH1		Good
16		Main Distribution Frame	NCE-40A2	BP-13464	JRC	1985	F-TA-193:PH1		Good
17		Interface Relay Circuit	CSC-257	BP-89611	JRC	1985	F-TA-193:PH1		Good
18		Interface Relay Circuit	CSC-257	BP-89612	JRC	1985	F-TA-193:PH1		Good
19		Interface Relay Circuit	CSC-257	BP-89613	JRC	1985	F-TA-193:PH1		Good
20		Switch Board	NCB-429	BP-10061	JRC	1969	F-TA-193:PH1		Good
21		Switch Board	NCB-430	BP-10067	JRC	1969			Good
22		Telecontroller (MOBIL)	NCH-701M	JF31965	JRC	1997	F-TA-193:PH3		Good
23		Tx Selector	NCL-676	JF32060	JRC	1997	F-TA-193:PH3		Good
24		Common Repeater	NQQ-18GC	JF31947	JRC	1997	F-TA-193:PH3		Good
1-2-2		Supervisory Console							
1		Console	NCA-563B	BP-89351	JRC	1985	F-TA-193:PH1		Good
2		Receiver	NRD-93	BR-33399	JRC	1985	F-TA-193:PH1		Good
3		Speaker panel (1)	NVA-64G		JRC	1985	F-TA-193:PH1		Good
4		TX Status Display Panel	NCG-61C		JRC	1985	F-TA-193:PH1		Good
5		Ant. Matrix Status Display Panel (1)	NCG-62B		JRC	1985	F-TA-193:PH1		Good
6		Independent Clock (1)	QA-513		JRC	1985	F-TA-193:PH1		Good
7		Power Supply (1)	CBD-665		JRC	1985	F-TA-193:PH1		Good
1-3		Operator Console Desk/Rack							
1-3-1		MF TG Console							
1		Console	NCA-559B	BP-89342	JRC	1985	F-TA-193:PH1		Good
2		Receiver	NRD-93	BR-33400	JRC	1985	F-TA-193:PH1		Good
3		Receiver	NRD-93	BR-33406	JRC	1985	F-TA-193:PH1		Good
4		Speaker Panel (1)	NVA-64G		JRC	1985	F-TA-193:PH1		Good
5		Radio Terminal	NQP-11	BP-89399	JRC	1985	F-TA-193:PH1		Good
6		Radio Terminal	NQP-11	BP-89400	JRC	1985	F-TA-193:PH1		Good
7		TX Controller	NCH-230	BP-89482	JRC	1985	F-TA-193:PH1		Good
8		TX Controller	NCH-230	BP-89483	JRC	1985	F-TA-193:PH1		Good
9		CQ Transmitter (1)	RS-4K		JRC	1985	F-TA-193:PH1		Good
10		Telephone Type Station	YT-4K		JRC	1985	F-TA-193:PH1		Good
11		Slave Clock (1)			JRC	1985	F-TA-193:PH1		Good
12		Power Supply (1)	NBK-31B		JRC	1985	F-TA-193:PH1		Good

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MKS-153- (3 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3-2		HF TG Console							
1		Console	NCA-560B	BP-89344	JRC	1985	F-TA-193:PHI		Good
2		Receiver	NRD-93	BR-33401	JRC	1985	F-TA-193:PHI		Good
3		Receiver	NRD-93	BR-33402	JRC	1985	F-TA-193:PHI		Good
4		Scanning Unit	NDH-93	BRS-5462	JRC	1985	F-TA-193:PHI		Good
5		Speaker Panel (1)	NVA-64G		JRC	1985	F-TA-193:PHI		Good
6		Radio Terminal	NQP-11	BP-89405	JRC	1985	F-TA-193:PHI		Good
7		Radio Terminal	NQP-11	BP-89406	JRC	1985	F-TA-193:PHI		Good
8		TX Controller	NCH-230	BP-89490	JRC	1985	F-TA-193:PHI		Good
9		TX Controller	NCH-230	BP-89491	JRC	1985	F-TA-193:PHI		Good
10		CQ Transmitter (1)	RS-4K		JRC	1985	F-TA-193:PHI		Good
11		Telephone Type Station	YT-A		JRC	1985	F-TA-193:PHI		Good
12		Slave Clock (1)			JRC	1985	F-TA-193:PHI		Good
13		Power Supply (1)	NBK-31B		JRC	1985	F-TA-193:PHI		Good
1-3-3		MF/HF TP/Console							
1		Console	NCA-562B	BP-89348	JRC	1985	F-TA-193:PHI		Good
2		Receiver	NRD-93	BR-33403	JRC	1985	F-TA-193:PHI		Good
3		Receiver	NRD-93	BR-33403	JRC	1985	F-TA-193:PHI		Good
4		Scanning Unit	NDH-93	BR-35461	JRC	1985	F-TA-193:PHI		Good
5		Speaker Panel (2)	ANA-6461		JRC	1985	F-TA-193:PHI		Good
6		Radio Terminal	NQP-11	BP-80419	JRC	1985	F-TA-193:PHI		Good
7		Radio Terminal	NQP-11	BP-80420	JRC	1985	F-TA-193:PHI		Good
8		TX Controller	NCF-230	BP-89503	JRC	1985	F-TA-193:PHI		Good
9		TX Controller	NCF-230	BP-89504	JRC	1985	F-TA-193:PHI		Good
10		Telephone Type Station	YT-A		JRC	1985	F-TA-193:PHI		Good
11		Slave Clock (1)			JRC	1985	F-TA-193:PHI		Good
12		Power Supply (1)	NBK-31B		JRC	1985	F-TA-193:PHI		Good
1-3-4		FIX COM Console							
1		Console	NCA-5610	BP-89346	JRC	1985	F-TA-193:PHI		Good
2		Receiver	NRD-93	BR-33443	JRC	1985	F-TA-193:PHI		Good
3		Receiver	NRD-93	BR-33444	JRC	1985	F-TA-193:PHI		Good
4		Speaker Panel (1)	NVA-646		JRC	1985	F-TA-193:PHI		Good
5		Radio Terminal	NQP-11	BP-89415	JRC	1985	F-TA-193:PHI		Good
6		TX Controller	NCH-230	BP-89496	JRC	1985	F-TA-193:PHI		Good

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No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
7		Telephone Repeater	NQQ-31A	BP-89446	JRC	1985	F-TA-193:PHI		Good
8		Lincompex	NZA-15	BB-10097	JRC	1985	F-TA-193:PHI		Good
9		ARQ Equipment	NCL-550A	GA-10262	JRC	1985	F-TA-193:PHI		Good
10		Telephone Type Station	YT-A		JRC	1985	F-TA-193:PHI		Good
11		Slave Clock (1)	NBK-31B		JRC	1985	F-TA-193:PHI		Good
12		Power Supply (1)	JUR-5A	EQ-12819	JRC	1985	F-TA-193:PHI		Good
13		Telephone Repeater			JRC	1995	F-TA-193:PHI		Good
1-3-5		Search & Monitor Console							
1		Console	NCA-564A	BP-31105	JRC	1985	F-TA-193:PHI		Good
2		Receiver	NRD-93	BR-33405	JRC	1985	F-TA-193:PHI		Good
3		Scanning Unit	NDH-93	BR-35460	JRC	1985	F-TA-193:PHI		Good
4		Speaker Panel (1)	NVA-64G		JRC	1985	F-TA-193:PHI		Good
5		500 Khz AA Rec	JXA-15A	BA-20739	JRC	1985	F-TA-193:PHI		Good
6		2182 Khz AA Rec	JXA-8A	BA-21037	JRC	1985	F-TA-193:PHI		Good
7		Automatic DF	JLR-1002	MF-12479	JRC	1985	F-TA-193:PHI		Good
8		Telephone Type Station	YT-A		JRC	1985	F-TA-193:PHI		Good
9		Slave Clock (1)			JRC	1985	F-TA-193:PHI		Good
10		Power Supply	NBK-31B		JRC	1985	F-TA-193:PHI		Good
11		500 Khz BUZZER	BZ-18	BA-20739	JRC	1985	F-TA-193:PHI		Good
12		Power Unit	NBA-3519	BP-20739	JRC	1985	F-TA-193:PHI		Good
13		Power Supply	NBA-1180	MF-12479	JRC	1985	F-TA-193:PHI		Good
14		Audio Select & Monitor	NSJ-280A	BP-89372	JRC	1985	F-TA-193:PHI		Good
15		Audio Select & Monitor	NSJ-280B	BP-89381	JRC	1985	F-TA-193:PHI		Good
16		Control Exchange Unit	YKK-16	160884Y	JRC	1985	F-TA-193:PHI		Good
17		Connection Rack	GE-1056B	BP-89027	JRC	1985	F-TA-193:PHI		Good
1-3-6		DSC Console							
1		Console	NCA-783B	BP-98269	JRC	1996	F-TA-193:PH3		Good
2		Tele Controller	NCH-701M	BP-98703	JRC	1996	F-TA-193:PH3		Good
3		Master Clock	NKH-100	BP-99586	JRC	1996	F-TA-193:PH3		Good
4		Junction Box (1)	NQD-3655B		JRC	1996	F-TA-193:PH3		Good
5		Power Supply (1)	NBK-31		JRC	1996	F-TA-193:PH3		Good
6		Telecontroller	NCH-701M	BP-98703	JRC	1996	F-TA-193:PH3		Good
7		Personal Computer 150DX4-100MHz	PC-100	A19000A4KMZ	JRC	1996	F-TA-193:PH3		Good
8		CRT Display	6542-105	66-66293	JRC	1996	F-TA-193:PH3		No Good

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MKS-153- (5 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
9		Key Board	A	L-0960	JRC	1996	F-TA-193:PH3		Good
10		Printer	LX-300	077428	JRC	1996	F-TA-193:PH3		Good
11		Chair (1)			JRC	1996	F-TA-193:PH3		Good
12		Printer Rack (1)	P-1020G		JRC	1996	F-TA-193:PH3		Good
1-3-7		DSC W/K Rack (2U)							
1		Rack (2U)	GED-12496	BP-98302	JRC	1995	F-TA-193:PH3		Good
2		Antenna Coupler	NAJ-110A	BC-19365	JRC	1995	F-TA-193:PH3		Good
3		Receiver Controller	NCJ-536A	BP-98375	JRC	1995	F-TA-193:PH3		Good
4		Power Supply	NBA-3979C		JRC	1995	F-TA-193:PH3		Good
5		DSC W/K RX Rack (2U type)	GED-1249C	BP-98302	JRC	1996	F-TA-193:PH3		Good
6		RF Jack Panel (1)	NQE-584R-C		JRC	1996	F-TA-193:PH3		Good
7		Junction Box (1)	NQD-3631C		JRC	1996	F-TA-193:PH3		Good
8		ALM Buzzer (1)	CCD-242		JRC	1996	F-TA-193:PH3		Good
1-3-8		DSC Rack							
1		DSC W/K Receiver	NRD-740	BR-69422	JRC	1996	F-TA-193:PH3		Good
2		DSC W/K Receiver	NRD-740	BR-69423	JRC	1996	F-TA-193:PH3		Good
3		DSC W/K Receiver	NRD-740	BR-69424	JRC	1996	F-TA-193:PH3		Good
4		DSC W/K Receiver	NRD-740	BR-69425	JRC	1996	F-TA-193:PH3		Good
5		DSC W/K Receiver	NRD-740	BR-69426	JRC	1996	F-TA-193:PH3		Good
6		DSC W/K Receiver	NRD-740	BR-69427	JRC	1996	F-TA-193:PH3		Good
7		DSC W/K Receiver	NRD-740	BR-69428	JRC	1996	F-TA-193:PH3		Good
8		DSC W/K Receiver	NRD-740	BR-69429	JRC	1996	F-TA-193:PH3		Good
9		RX Controller	NCJ-536A	BP-98375	JRC	1996	F-TA-193:PH3		Good
10		Antenna Multicoupler	NAJ-110A	BC-19365	JRC	1996	F-TA-193:PH3		Good
11		1600KHz High Pass Filter	CFK-2	BC-19350	JRC	1996	F-TA-193:PH3		Good
12		System Rack with Mother Board & PS	NCT-32	BP-98543	JRC	1996	F-TA-193:PH3		Good
13		DSC DEM	CND-129A	BP-98460	JRC	1996	F-TA-193:PH3		Good
14		DSC DEM	CND-129A	BP-98461	JRC	1996	F-TA-193:PH3		Good
15		DSC MOD	CNM-159A	BP-98497	JRC	1996	F-TA-193:PH3		Good
16		VHF DSC Modem (Ch70)	CNM-158A	BP-98521	JRC	1996	F-TA-193:PH3		Good
17		CPU IF	CDC-721A	BP-98422	JRC	1996	F-TA-193:PH3		Good
18		Power Supply	NBA-3979C	BP-98556	JRC	1996	F-TA-193:PH3		Good

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MKS-153- (6 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3-9		NBDP Console							
1		Console	NCA-784A	BP-98280	JRC	1995	F-TA-193:PH3		Good
2		Receiver	NRD-93	BR-69363	JRC	1996	F-TA-193:PH3		Good
3		Receiver	NRD-93	BR-69364	JRC	1996	F-TA-193:PH3		Good
4		Telecontroller	NCH-701M	BP-98704	JRC	1995	F-TA-193:PH3		Good
5		Signal Controller	NQP-21-1	BP-98629	JRC	1995	F-TA-193:PH3		Good
6		Telephone Controller	NGQ-31BA	BP-98642	JRC	1995	F-TA-193:PH3		Good
7		Converter	NHH-556A-3 2W/4W	BP-99821	JRC	1995	F-TA-193:PH3		Good
8		Personal Computer	150-100DX4	A19000A4KWL	IBM	1995	F-TA-193:PH3		Good
9		Monitor	G-40		IBM	1995	F-TA-193:PH3		Good
10		Key Board	A	Y-1631	JRC	1996	F-TA-193:PH3		Good
11		Printer (2)	LX-300		EPSON	1996	F-TA-193:PH3		Good
12		Paper Tape Reader	DPT-610A		JRC	1996	F-TA-193:PH3		Good
13		Speaker Panel (1)	NVA-64		JRC	1996	F-TA-193:PH3		Good
14		Slave Clock (1)			CITIZEN	1996	F-TA-193:PH3		Good
15		Console (2U type)	NCA-784A	BP-98280	JRC	1996	F-TA-193:PH3		Good
16		Jack Panel (1)	NQC-742A		JRC	1996	F-TA-193:PH3		Good
17		RF Jack Panel (1)	NQE-584C		JRC	1996	F-TA-193:PH3		Good
18		Junction Box (1)	NQD-3654A		JRC	1996	F-TA-193:PH3		Good
19		Power Supply (1)	NBK-31		JRC	1996	F-TA-193:PH3		Good
20		Receiver	NRD-93	BR-69363	JRC	1996	F-TA-193:PH3		Good
21		Receiver	NRD-93	BR-69364	JRC	1996	F-TA-193:PH3		Good
22		Hybrid (1)	CB-721S-S		JRC	1996	F-TA-193:PH3		Good
23		Speaker Panel (1)	NVA-64-2		JRC	1996	F-TA-193:PH3		Good
24		Telecontroller	NCH-701M	BP-98704	JRC	1996	F-TA-193:PH3		Good
25		Signal Controller	NQP-21-1	BP-98629	JRC	1996	F-TA-193:PH3		Good
26		Telephone Repeater	NQQ-31BA	BP-98642	JRC	1996	F-TA-193:PH3		Good
27		System Rack with Mother Board & PS	NCT-32S-A	BP-98569	JRC	1996	F-TA-193:PH3		Good
28		FS Modem	CHF-12A	BP-98397	JRC	1996	F-TA-193:PH3		Good
29		CPU IF	CDC-721A	BP-98421	JRC	1996	F-TA-193:PH3		Good
30		Level Converter	CMH-1280A	BP-98577	JRC	1996	F-TA-193:PH3		Good
31		2W/4W Converter	NHH-556A-3	BP-99821	JRC	1996	F-TA-193:PH3		Good
32		Personal Computer	6281-V5B	A19000A4KNI	JRC	1996	F-TA-193:PH3		Good

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No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
33		CRT Display	6542-105	66-66287	JRC	1996	F-TA-193:PH3		Good
34		System Floppy Disk (NBDP/TLX)	7YLED10106		JRC	1996	F-TA-193:PH3		Good
35		Clock (+8H) (1)	6HCED00074		JRC	1996	F-TA-193:PH3		Good
36		Headset (1)	NTR-3302		JRC	1996	F-TA-193:PH3		Good
37		Morse Key (1)	HK-704		JRC	1996	F-TA-193:PH3		Good
38		Cable for Key (1)	KC-547		JRC	1996	F-TA-193:PH3		Good
39		Headphone (1)	ST-3		JRC	1996	F-TA-193:PH3		Good
40		Chair (1)			JRC	1996	F-TA-193:PH3		Good
41		Printer Rack (1)	P-1020G		JRC	1996	F-TA-193:PH3		Good
42		Printer	LX-300	077432	JRC	1996	F-TA-193:PH3		Good
43		Printer	LX-300	078113	JRC	1996	F-TA-193:PH3		Good
44		Printer Auto Switch (1)	ASL-21(240)		JRC	1996	F-TA-193:PH3		Good
45		Paper Tape Reader/Puncher	DPT-610A	Q567262	JRC	1996	F-TA-193:PH3		Good
1-4		MUX CH Expansion (UHF)							
1		CH TR Sub.Rack	NGD-508	NBZ-001	JRC	1989	SAR Project		Good
2		12/24 Ch50 24/24 Ch		NBZ-501	JRC	1989	SAR Project		Good
3		CH Modem Unit	NMC-100A1	NBX-042	JRC	1989	SAR Project		Good
4		CH Modem Unit	NMC-100A1	NBX-043	JRC	1989	SAR Project		Good
5		CH Modem Unit	NMX-100A1	NBX-067	JRC	1989	SAR Project		Good
6		CH Modem Unit	NMC-100A1	NBX-068	JRC	1989	SAR Project		Good
7		CH Modem Unit	NMC-100A1	NBX-069	JRC	1989	SAR Project		Good
8		CH Modem Unit	NMC-100A1	NBX-080	JRC	1989	SAR Project		Good
9		CH Modem Unit	NMC-100A1	NBX-023	JRC	1989	SAR Project		Good
10		CH Modem Unit	NMC-100A1	NBX-033	JRC	1989	SAR Project		Good
11		CH Modem Unit	NMC-100A1	NBX-040	JRC	1989	SAR Project		Good
12		CH Modem Unit	NMC-100A1	NBX-041	JRC	1989	SAR Project		Good
13		CH Modem Unit	NMC-100A1	NBX-087	JRC	1989	SAR Project		Good
14		CH Modem Unit	NMC-100A1	NBX-088	JRC	1989	SAR Project		Good
15		GSR Unit	NNE-100	N-59069	JRC	1989	SAR Project		Good
16		GSR Unit	NNE-100	N-59069	JRC	1989	SAR Project		Good
1-5		NAVTEX							
1		NAVTEX Receiver	NVR-300A	GD-22728	JRC	1996	F-TA-193:PH3		Good
2		ARQ Modem	NCL-800		JRC		F-TA-193:PH3		Good

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No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		ARQ Modem(for Navtex) with FD	NCI-800	BP-73267	JRC	1996	F-TA-193:PH3		Good
4		Personal Computer 486DX4-100MHz	PC-100	AJ9000A+KNY	JRC	1996	F-TA-193:PH3		Good
5		CRT Display		66L6178	JRC	1996	F-TA-193:PH3		Good
6		Key Board	A	Y-3502	JRC	1996	F-TA-193:PH3		Good
7		Printer	LX-300	077431	JRC	1996	F-TA-193:PH3		Good
8		Desk (1)	CD4-398		JRC	1996	F-TA-193:PH3		Good
1-6		Receiver							
1		HF Receiver (SAR)	NRD	BR-334005	JRC	1995	F-TA-193:PH3		Good
1-7		VHF System							
1		VHF Console	GFD-501YC (A)	VC-57491	JRC	1995	F-TA-193:PH3		Good
2		VHF Transceiver 50W	GFD-260YK	CV-57460	JRC	1995	F-TA-193:PH3		Good
3		VHF Transceiver 50W	GFD-260YK	CV-57471	JRC	1995	F-TA-193:PH3		Good
4		VHF Transceiver 50W	GFD-260YK	CV-57472	JRC	1995	F-TA-193:PH3		Good
5		VHF Transceiver	JRV-500AP	BH-24427	JRC	1995	F-TA-193:PH3		Good
6		VHF TX/RX (CI170 DSC)	JRV-500AP	BH-20427	JRC	1996	F-TA-193:PH3		Good
7		Duplexer	AW-158YB	950712	JRC	1996	F-TA-193:PH3		Good
8		Coaxial Arrester	NYZ-10	95006	JRC	1996	F-TA-193:PH3		Good
2		Tower & Antenna System							
2-1		Tower & Mast							
		TX Station							
1		30mH Self Supporting	Triangle	T2 T3 T4	JRC	1969			Good
2		35mH Self Supporting	Triangle	T1	JRC	1969			Good
3		30mH Self Supporting	Square	T5	JRC	1969			Good
4		RX Station	Triangle		JRC	1969			Good
5		30mH Self Supporting	Triangle	T2.T3.T4	JRC	1969			Good
		35MH Self Supporting	Triangle	T1	JRC	1969			Good
2-2		Antenna System							
		TX Station							
1		Inverted Antenna (3)	L Antenna		JRC	1969			Good
2		Inverted Antenna (2)	L Antenna		JRC	1969			Good
3		3W Antenna (1)	T Antenna		JRC	1969			Good
4		Antenna (3)	FAN Antenna		JRC	1969			Good

Makassar

INVENTORY

Site Name: Makassar

MKS-153- (9 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		Antenna (6)	Multi Doublet		JRC	1969			Good
6		Automatic Aevia (Exchanger)	NOZ-168A	BP-80180	JRC	1969			Good
7		Antenna Exchanger	CS-201		Daiwa	1969			Good
8		Antenna Matching Unit	NFG-2C	BP-88959	JRC	1969			Good
9		Antenna Matching Unit	NFG-2C	BP-88960	JRC	1969			Good
10		Antenna Matching Unit	NFG-140A	BP-985993	JRC	1996	F-TA-193:PH3		Good
11		Antenna Matching Unit	NFG-140A	BP-95594	JRC	1996	F-TA-193:PH3		Good
12		Antenna Matching Unit	NFG-140A	JF31873	JRC	1997	F-TA-193:PH3		Good
13		Antenna Changer (1)	NKZ-221		JRC				Good
14		Antenna Changer (3)	CS-201N		JRC	1969			Good
15		Antenna Changer	NKZ-230	JF31979	JRC	1997	F-TA-193:PH3		Good
16		MF Antenna Exchanger	NKZ-223	BP-99945	JRC	1996	F-TA-193:PH3		Good
17		Matching Unit Controlle	NCM-134F	BP-99949	JRC	1996	F-TA-193:PH3		Good
18		Lightning Rod (2)			JRC	1996	F-TA-193:PH3		Good
19		Inverted Antenna for TX	L Antenna		JRC	1996	F-TA-193:PH3		Good
20		Broad Band H Antenna for TX (1)	HD-220--1-2		JRC	1996	F-TA-193:PH3		Good
21		Brown Cardioide Antenna (1)	BRC-1511		JRC	1996	F-TA-193:PH3		Good
		RX Station							
1		Antenna (4)	Interval L Ant.		JRC	1969			Good
2		Lop Antenna (1)	Lop Ant		JRC	1969			Good
3		Antenna (1)	Double Doublet		JRC	1969			Good
4		Doublet Antenna (1)	Doublet		JRC	1969			Good
5		5 Element Yagi Antenna (1)			JRC	1969			Good
6		2GHz Antenna (1)			JRC	1989	SAR Project		Good
7		VHF Antenna (2)			JRC	1989	SAR Project		Good
8		VHF Antenna (1)			JRC	1989	SAR Project		Good
9		Cadiode Antenna	BRC-1501	4032	JRC	1985	F-TA-193:PH1		Good
10		Cadiode Antenna	BRC-1501	4039	JRC	1985	F-TA-193:PH1		Good
11		Cadiode Antenna	BRC-1501	4050	JRC	1985	F-TA-193:PH1		Good
12		Band Pass Filter	BP2-1500A	F-4446	JRC	1985	F-TA-193:PH1		Good
13		Duplex Antenna 25	OF-1500A	F-44455	JRC	1985	F-TA-193:PH1		Good
14		Duplex Antenna 25	OF-1500A	F-44456	JRC	1985	F-TA-193:PH1		Good
15		Lightning Rod (3)			JRC	1996	F-TA-193:PH3		Good

Makassar

INVENTORY

Site Name: Makassar

MKS-153- (10 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2-3		Antenna Switch							
1		MF Antenna Exchanger	NKZ-223A	BP-99945	JRC	1996	F-TA-193:PH3		Good
2		Exchanger Antenna	NKZ-223	BP-91883	JRC	1989	SAR Project		Good
3		Antenna Selector							
4		Antenna Selector Rack	GJD-1076	BP-89116	JRC	1985	F-TA-193:PH1		Good
5		Antenna Selector (1)	NKZ-220B		JRC	1985	F-TA-193:PH1		Good
6		Antenna Multicoupler	NAF-80FA	BC-13451	JRC	1985	F-TA-193:PH1		Good
7		Antenna Multicoupler	NAV-80FA	BC-13452	JRC	1985	F-TA-193:PH1		Good
8		Antenna Multicoupler	NAV-80FA	BC-13453	JRC	1985	F-TA-193:PH1		Good
		Antenna Multicoupler	NAV-80FA	BC-13454	JRC	1985	F-TA-193:PH1		Good
3		Power Supply Equipment							
3-1		Power Distribution Board							
1		Distribution Board	NCB-432	BP-10064	JRC	1969			Good
2		Main Distribution Board	NCB-432	BP-7325	TAIYO	1969			Good
3		Power Distribution Board	NBJ-402RAJ	BP-98325	JRC	1995	F-TA-193:PH3		Good
4		Power Distribution Board	NBJ-402RB	BP-98332	JRC	1995	F-TA-193:PH3		Good
5		Power Distribution Board	NBJ-402RC		JRC	1995	F-TA-193:PH3		Good
6		Type RAI(forRX)220V,1Ph (1) New	NBJ-402RAI		JRC	1996	F-TA-193:PH3		Good
3-2		Isolation Transformer							
1		Isolation Transformer 55 KVA	NZL-22732	BP-99806	JRC	1996	F-TA-193:PH3		Good
2		Isolation Transformer	T1-20-10	1540	JRC	1989	SAR Project		Good
3		Isolation Transf. 55KVA220V,3Ph	NBL-227B2	BP-99806	JRC	1996	F-TA-193:PH3		Good
3-3		Step-Up Transformer							
1		Step Up Transformer	NBL-2265	BP-99795	JRC	1995	F-TA-193:PH3		Good
2		3.5 KVA (for TX) 220V/380V,3Ph	NBA-226B	BP-99780	JRC	1996	F-TA-193:PH3		Good
3		5KVA, 110V/220V,1Ph	NBL-226C	BP-99798	JRC	1996	F-TA-193:PH3		Good
3-4		UPS & AVR System							
1		AVR	NBK-102A	BP-99780	JRC	1996	F-TA-193:PH3		Good
2		AVR	GERED 00018	1525643		1989	SAR Project		Good
3		UPS 2KNA	NETPRO 2000			1996	F-TA-193:PH3		No Good
4		AVR 55KVA 220V,3Ph	NBK-102A	BP-99780	JRC	1996	F-TA-193:PH3		Good
5		2KVA,220V,1Ph Net.Pro 2000	NP-20A049-	626A008	JRC	1996	F-TA-193:PH3		Good

Makassar

INVENTORY

Site Name: Makassar

MKS-153- (11 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3-5		Engine Generator							
1		Engine 70HP	4LG	4270	Kubota	1969			Good
2		Engine 70HP	4LG	4271	Kubota	1969			Good
3		Engine 9HP	ER-90N	6041	Kubota	1969			Good
4		Engine 9HP	ER-90N	6048	Kubota	1969			Good
5		Generator 127/220V/3Ph 50KVA	VSDEP-275	120597	Kubota	1969			Good
6		Generator 127/220V/3Ph 50KVA	VSDEP-275	120600	Kubota	1969			Good
7		Generator 110 /1Ph 5KVA	AJK-150	51230		1969			Good
8		Generator 110 /1Ph 5KVA	AJK-150	51229		1966	F-TA-193:PH3		Good
9		Battery Charger Input 110/220V	13091/01	DL-4138A	Philips				Good
10		Battery 12V/200AH (4)			Yuasa				No Good
11		Battery 12V/70AH (2)			GS				Good
4		Measuring Equipment							
1		Oscilloscope	2235	B-017850		1985	F-TA-193:PH1		Good
2		Digital Circuit Tester	MD-200C	841196		1985	F-TA-193:PH1		Good
3		Frequency Counter	5383A	2338A06193		1985	F-TA-193:PH1		Good
4		Audio Distortion Meter	796F	M-14427019		1985	F-TA-193:PH1		Good
5		RF Signal Generator	MSG-2560B	84113135		1985	F-TA-193:PH1		Good
6		Mega Ohm Tester	3213	35015		1985	F-TA-193:PH1		Good
7		Electric Voltmeter With Probe	ML-69A	M-15486		1985	F-TA-193:PH1		Good
8		VHF Signal Generator	MG-54E	M-44184		1985	F-TA-193:PH1		Good
9		VHF Output Testing Equipment	MS-52B	M-49283		1985	F-TA-193:PH1		Good
10		Directional Coupler	MA-52A	M-94587		1985	F-TA-193:PH1		Good
11		VHF/UHF Dummy Load	TP-5J10	22161		1985	F-TA-193:PH1		Good
12		Portable Test Rack (1)	206			1985	F-TA-193:PH1		Good
13		DC Power Supply unit	PAD-35-5L	1840890		1985	F-TA-193:PH1		Good
14		Motor Drive Wire Wrapper	EW-70			1985	F-TA-193:PH1		Good
15		Tools (1)	Zped 0002			1985	F-TA-193:PH1		Good
16		Tools (1)	S-10			1985	F-TA-193:PH1		Good
17		Tools (1)	ND-XP2174--74			1985	F-TA-193:PH1		Good
18		Dummy Load	DL-102A-3J-A	93895-3		1985	F-TA-193:PH1		Good

Makassar

INVENTORY

Site Name: Makassar

MKS-153- (12 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		Others							
1		Tape Recorder	X-2000	50789	Teac	1985	F-TA-193:PHI		Good
2		Tape Recorder	X-2000	50602	Teac	1985	F-TA-193:PHI		Good
3		Master Clock	KM-6THS	2182		1984	F-TA-193:PHI		No Good
4		Telex on Line	LO-133		Lorens				No Good
5		Telex on Radio	T-1000	BCK-280780	Siemens	1984	F-TA-193:PHI		Good
6		Air Conditioner (10)	CW-120JS225			1989	SAR Project		No Good
7		Air Conditioner	CW-71Y	3471403		1989			No Good
8		Exhaust Fan	FV-30VAN	180183		1969			Good
9		Exhaust Fan	FV-30VAN	180184		1969			Good

STATUS OF TROUBLES

SITE NAME : MAKASSAR

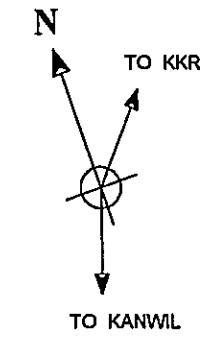
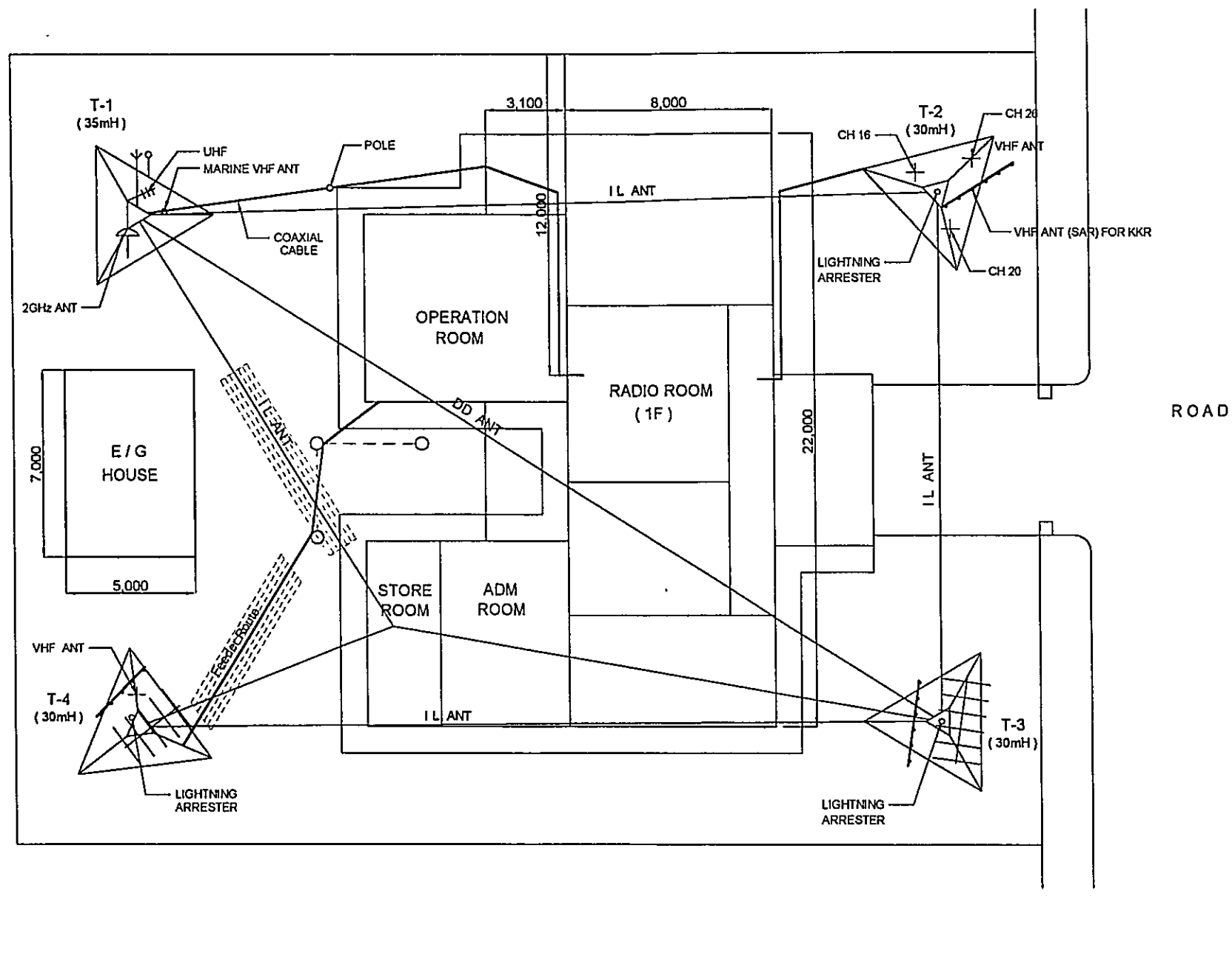
MKS-153-(1/1)

Item / Equipment	- / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	<input type="checkbox"/> Aging		<input type="checkbox"/> Immediacy
	<input type="checkbox"/> Lighting		<input type="checkbox"/> By next year budget
	<input type="checkbox"/> Corrosion		<input type="checkbox"/> By next project
	<input type="checkbox"/> Lack of Spares		<input type="checkbox"/> Unnecessary
	<input type="checkbox"/> Others		
<u>General Comment for Maintenance:</u>			
Can not work maximal, because spare part un-available			



DRAWN BY: ABA
 APPROVED BY: JICA

DATE	DRAWING TITLE	SHEET NO.
July 10, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 50,000	MAKASSAR	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P - M, K, S - 1, 5, 3 - 1	
JICA	PT. Aneka Asia Buana	

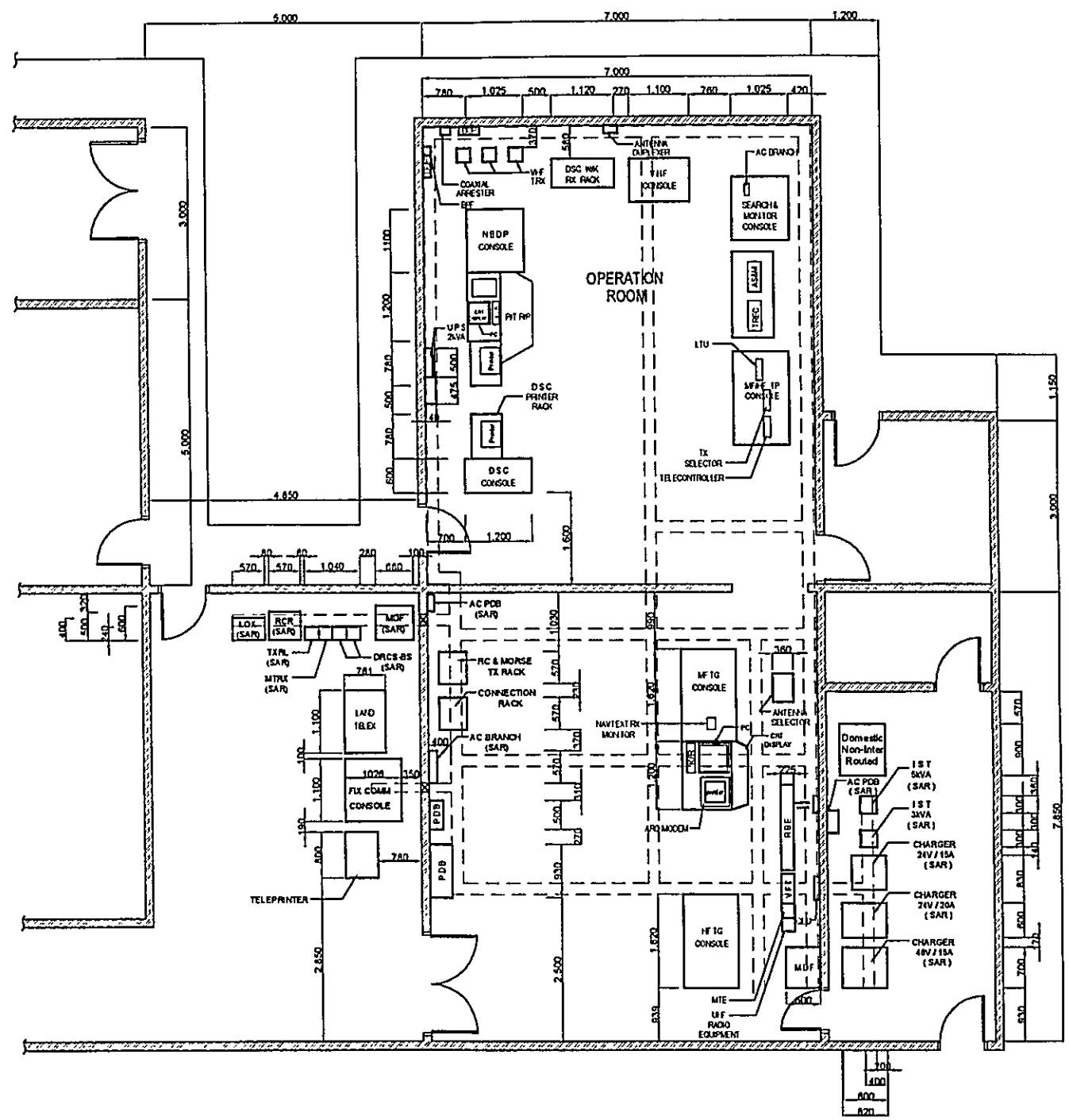


DRAWN BY ALB
 APPROVED BY JCA
 [Signature]

LEGEND

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

DATE	DRAWING TITLE	SHEET NO
July 09, 2001	ANTENNA LAYOUT FOR RX STATION	1 / 1
SCALE	SITE NAME	
1 : 200	MAKASSAR	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - M, K, S, - 1, 5, 3, - 2, R	

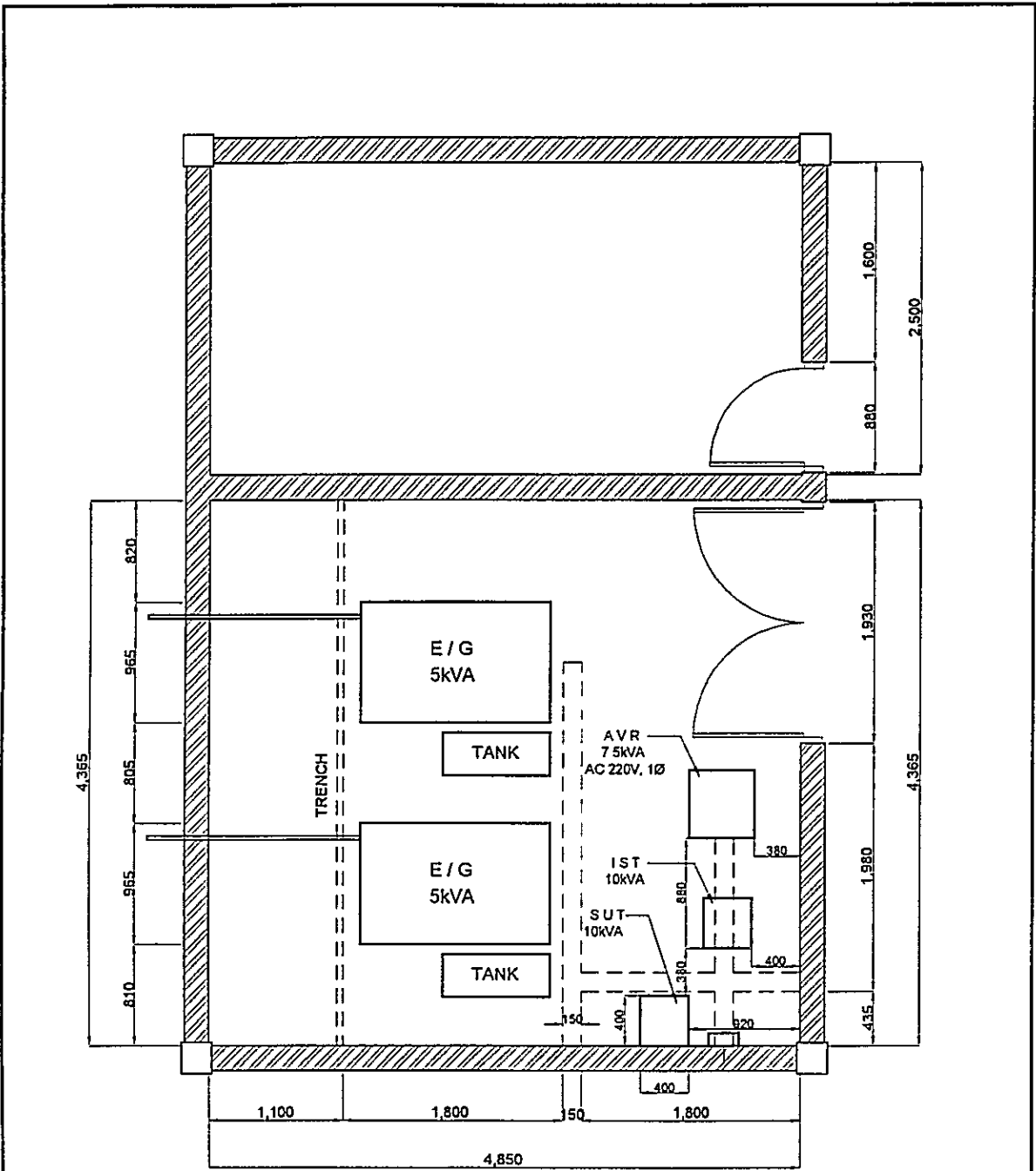


LEGEND

AS&M AUDIO SELECT & MONITOR	IST ISOLATION TRANSFORMER	RBE RADIO BEACON EQUIPMRNT	UPS UNINTERRUPTED POWER SUPPLY
BPF BATTERY POWER SUPPLY	KVA KILO VOLT AMPERE	RCR REMOTE CONTROL RADIO	V VOLT
CEU CENTRAL EXCHANGE UNIT	MF MEDIUM FREQUENCY	TG TELEGRAPHY	VFT VOICE FREQUENCY TELEGRAPH
DUP DUPLEXER	MDF MAIN DISTRIBUTION FRAME	TP TELEPHONY	VHF : VERY HIGH FREQUENCY
DSC DIGITAL SELECTIVE CALING	MTE MULTIPLEX TERMINAL EQUIPMENT	TREC TAPE RECORDER	
FIX : FIX COMMUNICATION	NBDP NARROW - BAND DIRECT - PRINTING	TRX : TRANSCIVER (ING)	
HF HIGH FREQUENCY	PDB POWER DISTRIBUTION BOARD	TX TRANSMITTER (ING)	

DATE July 10, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT FOR RX STATION	SHEET NO 1/1
SCALE 1 : 100	SITE NAME MAKASSAR	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - M, K, S, - 1, 5, 3, - 3, R	

DRAWN BY: [Signature]
 APPROVED BY: [Signature]

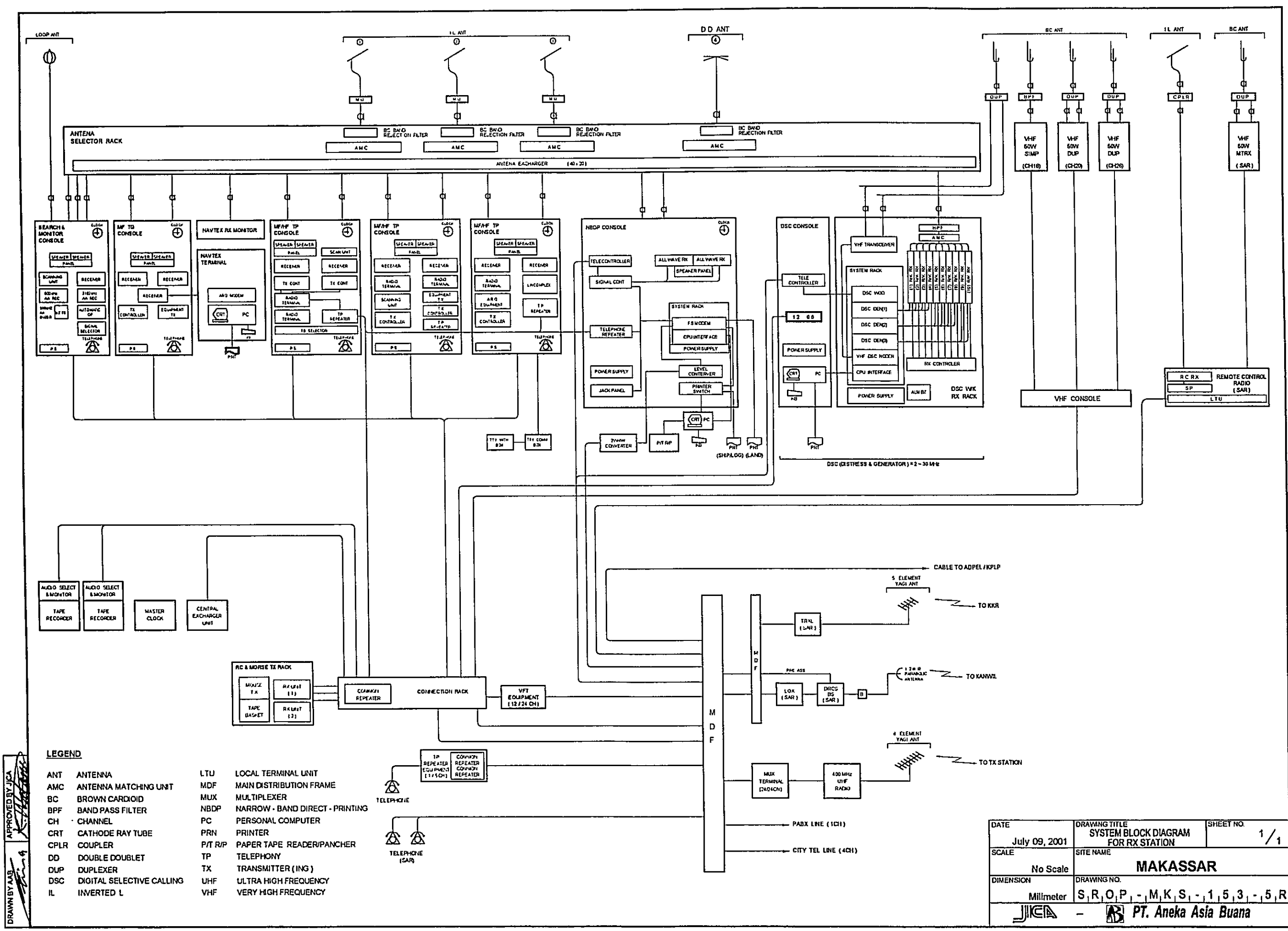


DRAWN BY AAB
 APPROVED BY JCA

LEGEND

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

DATE	DRAWING TITLE	SHEET NO.
July 09, 2001	E/G FLOOR LAYOUT FOR RX STATION	1 / 1
SCALE	SITE NAME	
1 : 50	MAKASSAR	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - M, K, S, - 1, 5, 3, - 4, R	
- PT. Aneka Asia Buana		



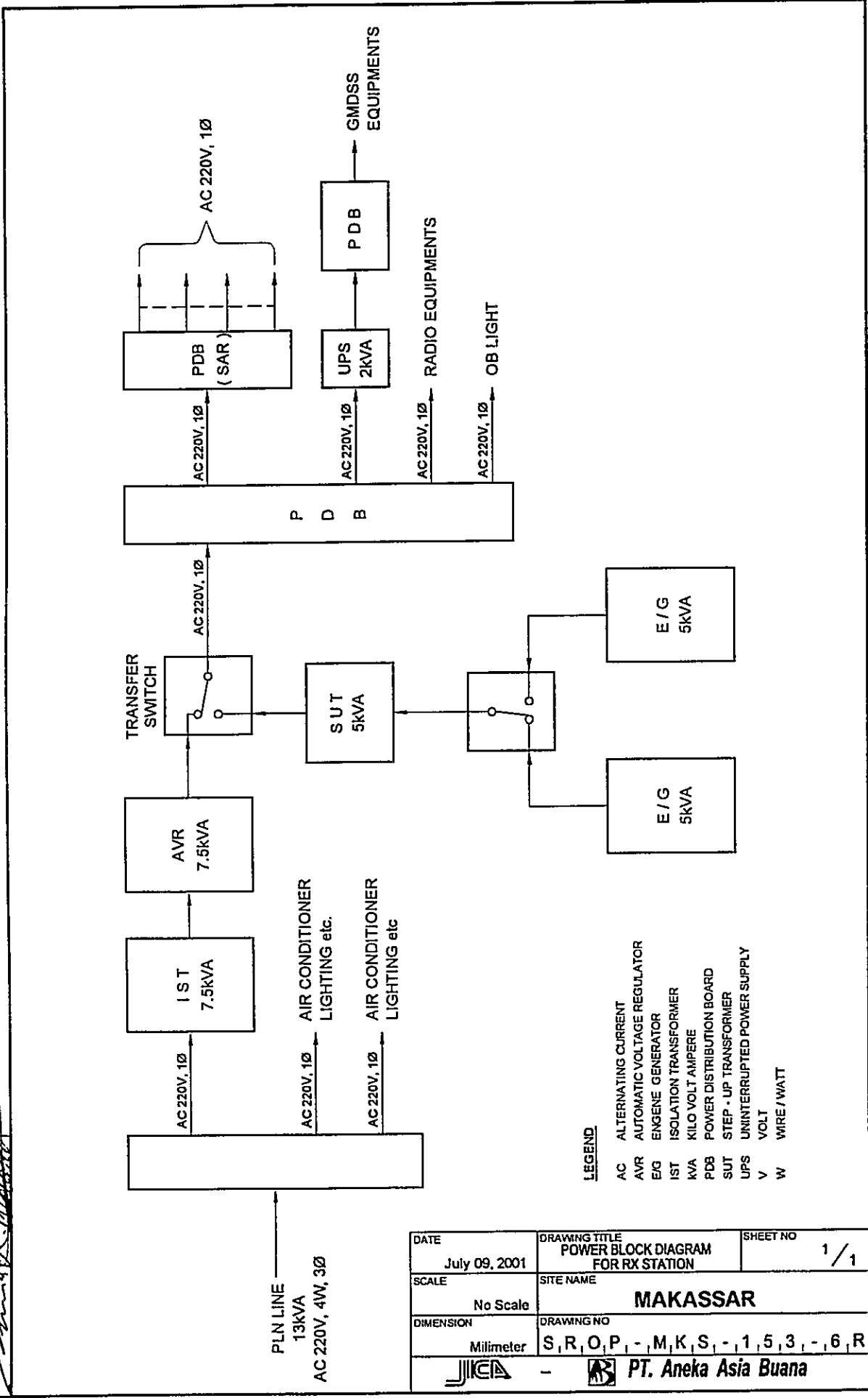
DRAWN BY AAB
 APPROVED BY JICA

LEGEND

ANT	ANTENNA	LTU	LOCAL TERMINAL UNIT
AMC	ANTENNA MATCHING UNIT	MDF	MAIN DISTRIBUTION FRAME
BC	BROWN CARDIOID	MUX	MULTIPLEXER
BPF	BAND PASS FILTER	NBDP	NARROW - BAND DIRECT - PRINTING
CH	CHANNEL	PC	PERSONAL COMPUTER
CRT	CATHODE RAY TUBE	PRN	PRINTER
CPLR	COUPLER	P/T R/P	PAPER TAPE READER/PANCHER
DD	DOUBLE DOUBLET	TP	TELEPHONY
DUP	DUPLEXER	TX	TRANSMITTER (ING)
DSC	DIGITAL SELECTIVE CALLING	UHF	ULTRA HIGH FREQUENCY
IL	INVERTED L	VHF	VERY HIGH FREQUENCY

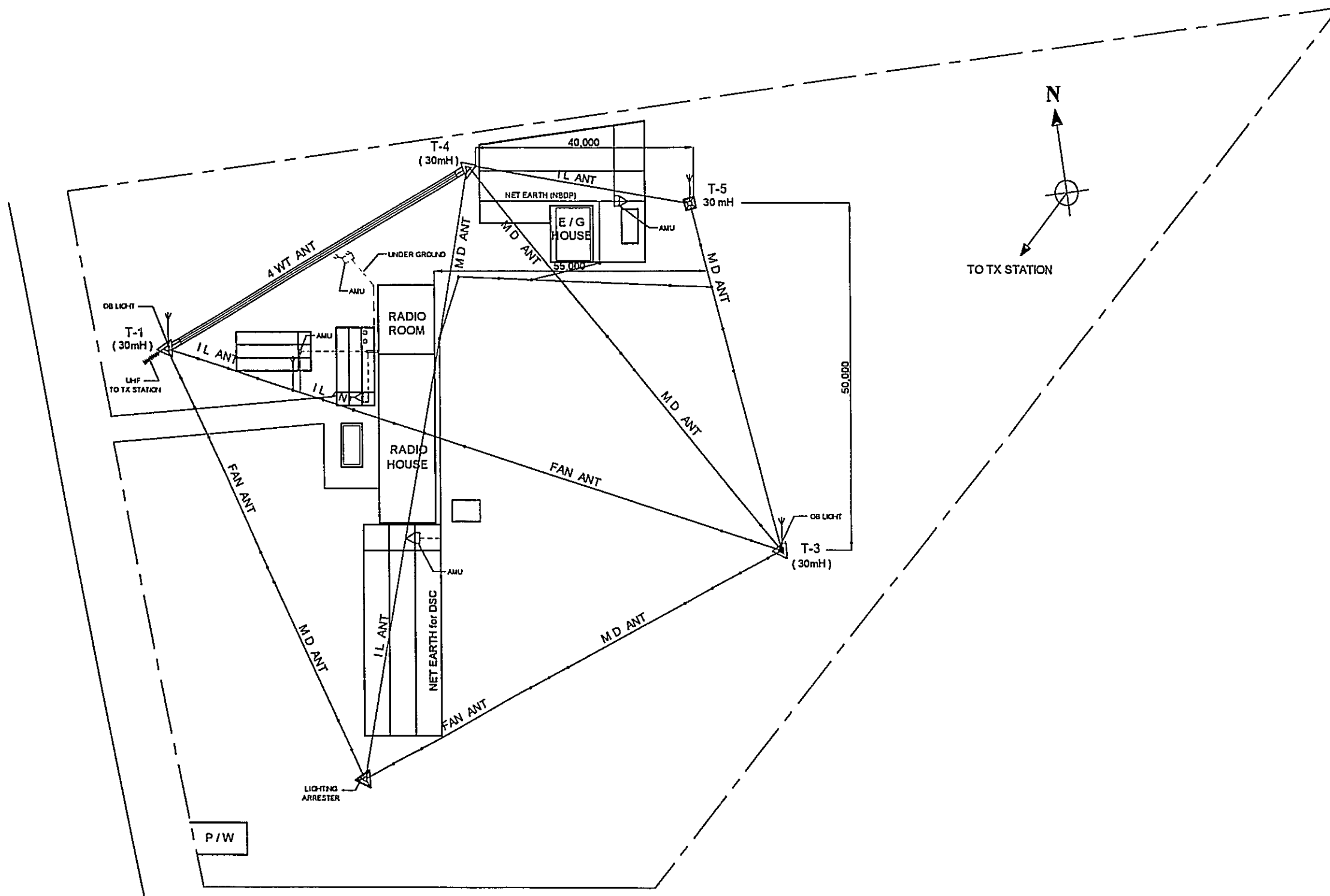
DATE July 09, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM FOR RX STATION	SHEET NO. 1 / 1
SCALE No Scale	SITE NAME MAKASSAR	
DIMENSION Millimeter	DRAWING NO. S,R,O,P - M,K,S - 1,5,3 - 5,R	
-		

DRAWN BY AAB
 APPROVED BY JICA



- LEGEND**
- AC ALTERNATING CURRENT
 - AVR AUTOMATIC VOLTAGE REGULATOR
 - E/G ENGINE GENERATOR
 - IST ISOLATION TRANSFORMER
 - kVA KILO VOLT AMPERE
 - PDB POWER DISTRIBUTION BOARD
 - SUT STEP - UP TRANSFORMER
 - UPS UNINTERRUPTED POWER SUPPLY
 - V VOLT
 - W WIRE / WATT

DATE July 09, 2001	DRAWING TITLE POWER BLOCK DIAGRAM FOR RX STATION	SHEET NO 1 / 1
SCALE No Scale	SITE NAME MAKASSAR	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - M, K, S, - 1, 5, 3, - 6, R	
PT. Aneka Asia Buana		

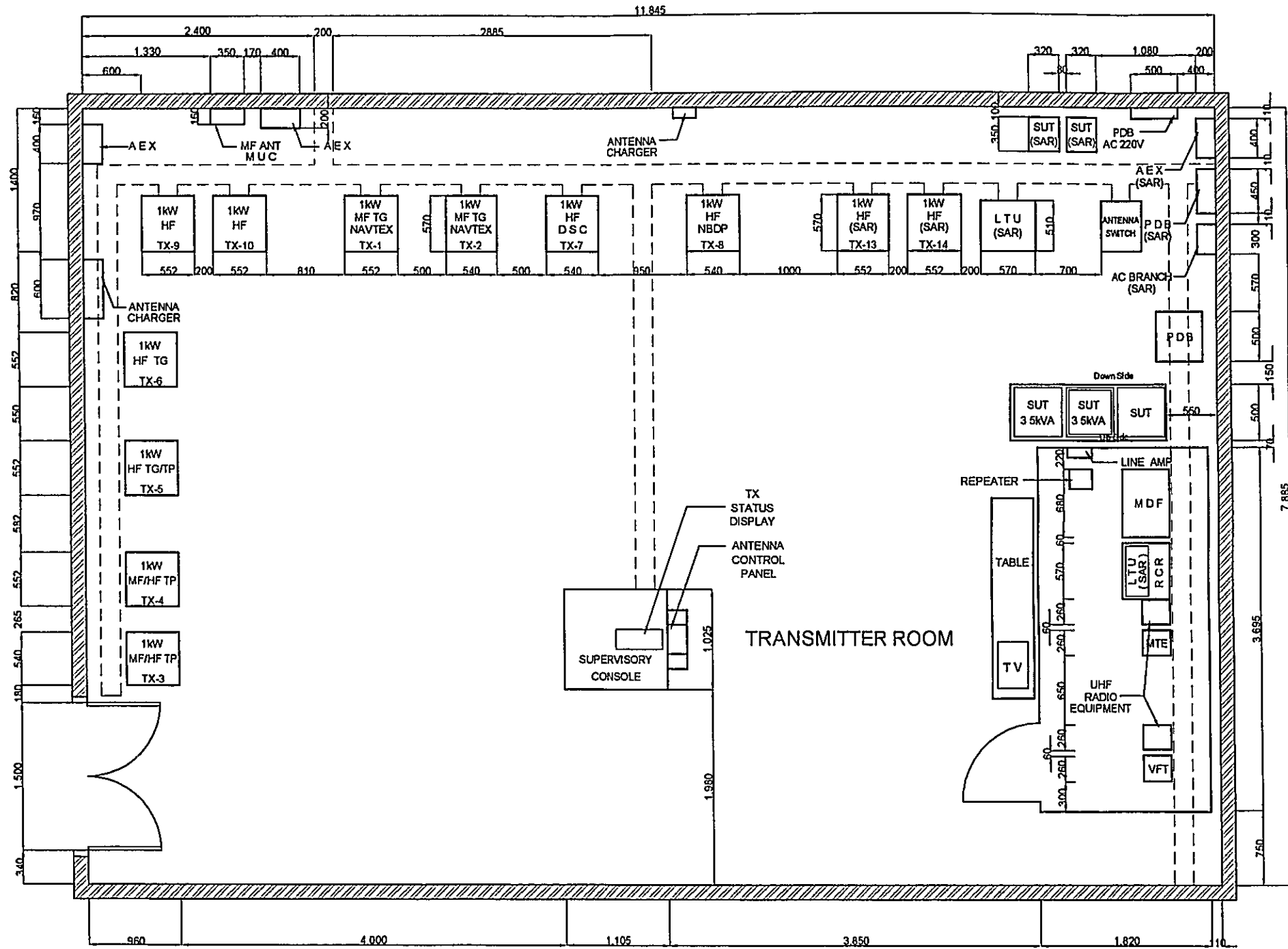


DRAWN BY AIR
 APPROVED BY JICA:

LEGEND

- ANT : ANTENNA
- E/G : ENGINE GENERATOR
- IL : INVERTED L
- MD : MULTI DOUBLET
- UHF : ULTRA HIGH FREQUENCY
- WT : WRE T TYPE

DATE July 09, 2001	DRAWING TITLE ANTENNA LAYOUT FOR TX STATION	SHEET NO 1/1
SCALE 1 : 1,000	SITE NAME MAKASSAR	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - M, K, S, - 1, 5, 3, - 2, 1	
-		

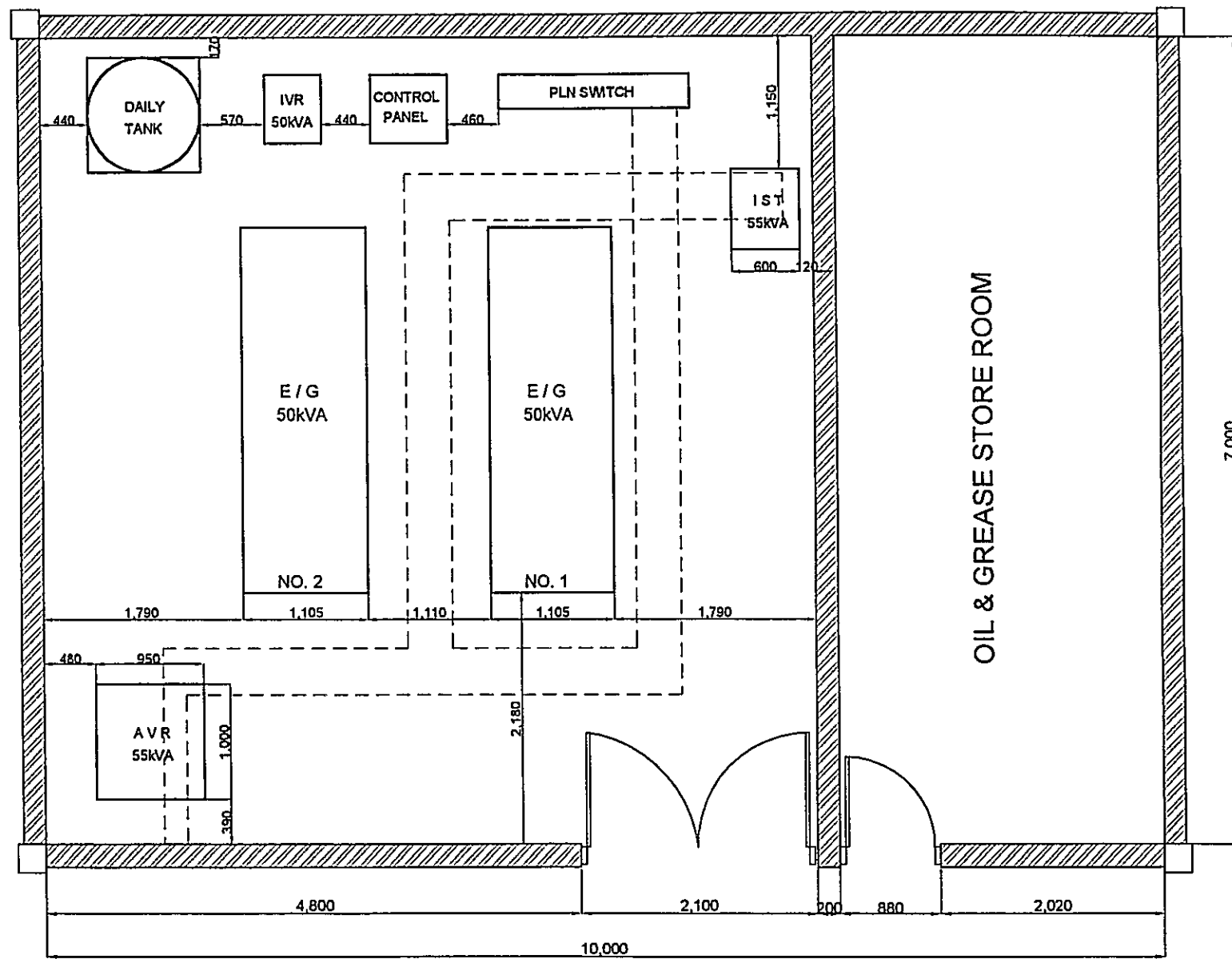


LEGEND

- | | | | | | |
|-----|---------------------------|------|---------------------------------|-----|---------------------------|
| AC | ALTERNATING CURRENT | MDF | MAIN DISTRIBUTION FRAME | TP | TELEPHONY |
| AEX | ANTENNA EXCHANGER | MTE | MULTIPLEX TERMINAL EQUIPMENT | TX | TRANSMITTER (ING) |
| DSC | DIGITAL SELECTIVE CALLING | MUC | MATCHING UNIT CONTROL | UHF | ULTRA HIGH FREQUENCY |
| HF | HIGH FREQUENCY | NBDP | NARROW - BAND DIRECT - PRINTING | VFT | VOICE FREQUENCY TELEGRAPH |
| KVA | KILO VOLT AMPERE | PDB | POWER DISTRIBUTION BOARD | | |
| LTU | LOCAL TERMINAL UNIT | SUT | STEP - UP TRANSFORMER | | |
| MF | MEDIUM FREQUENCY | TG | TELEGRAPHY | | |

DATE July 10, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT FOR TX STATION	SHEET NO. 1/1
SCALE 1:50	SITE NAME MAKASSAR	
DIMENSION Millimeter	DRAWING NO. S.R.O.P. - M.K.S. - 1.5.3 - 3.T	

DRAWN BY AAB
 APPROVED BY JCA:

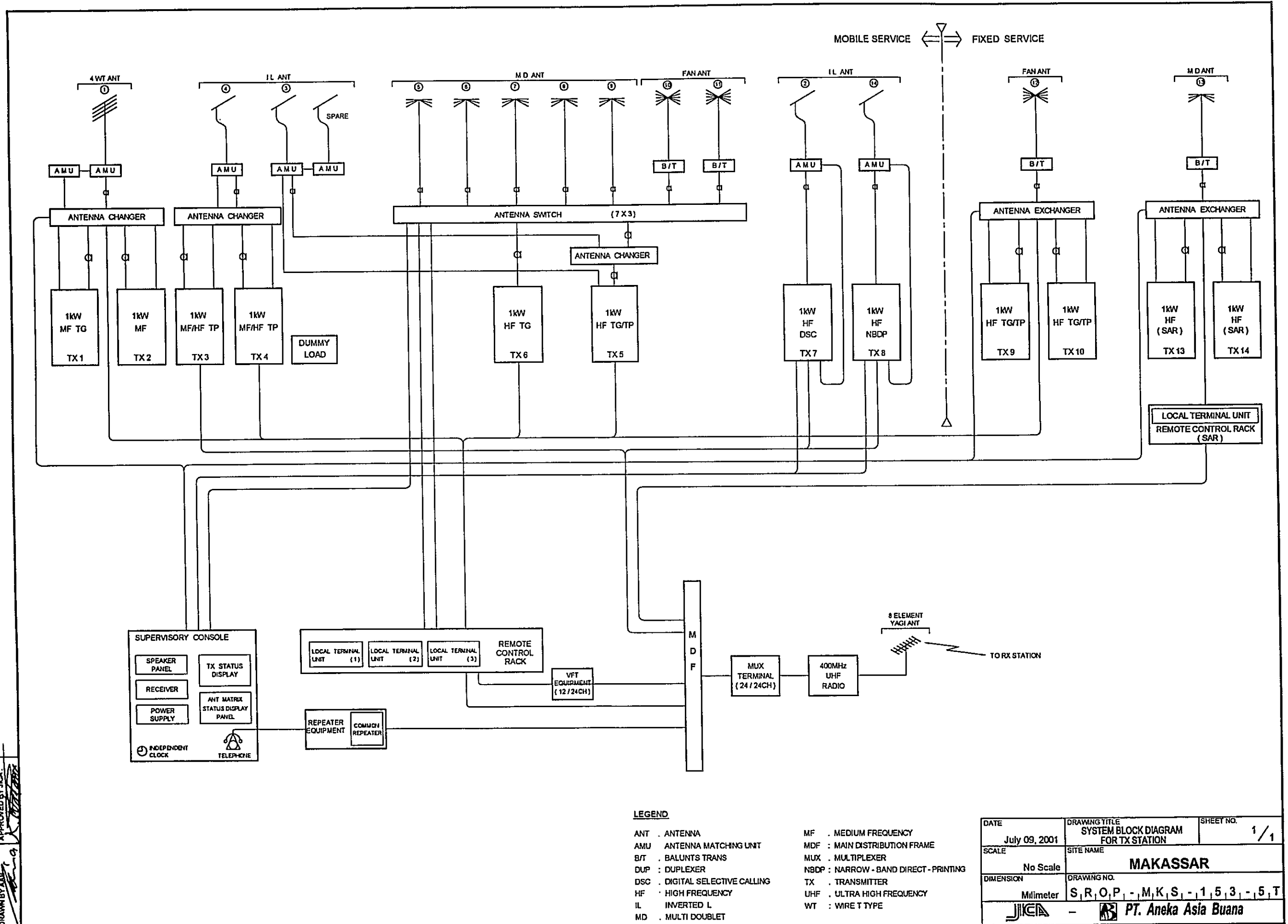


DRAWN BY: MAB. APPROVED BY: JICA.

LEGEND

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

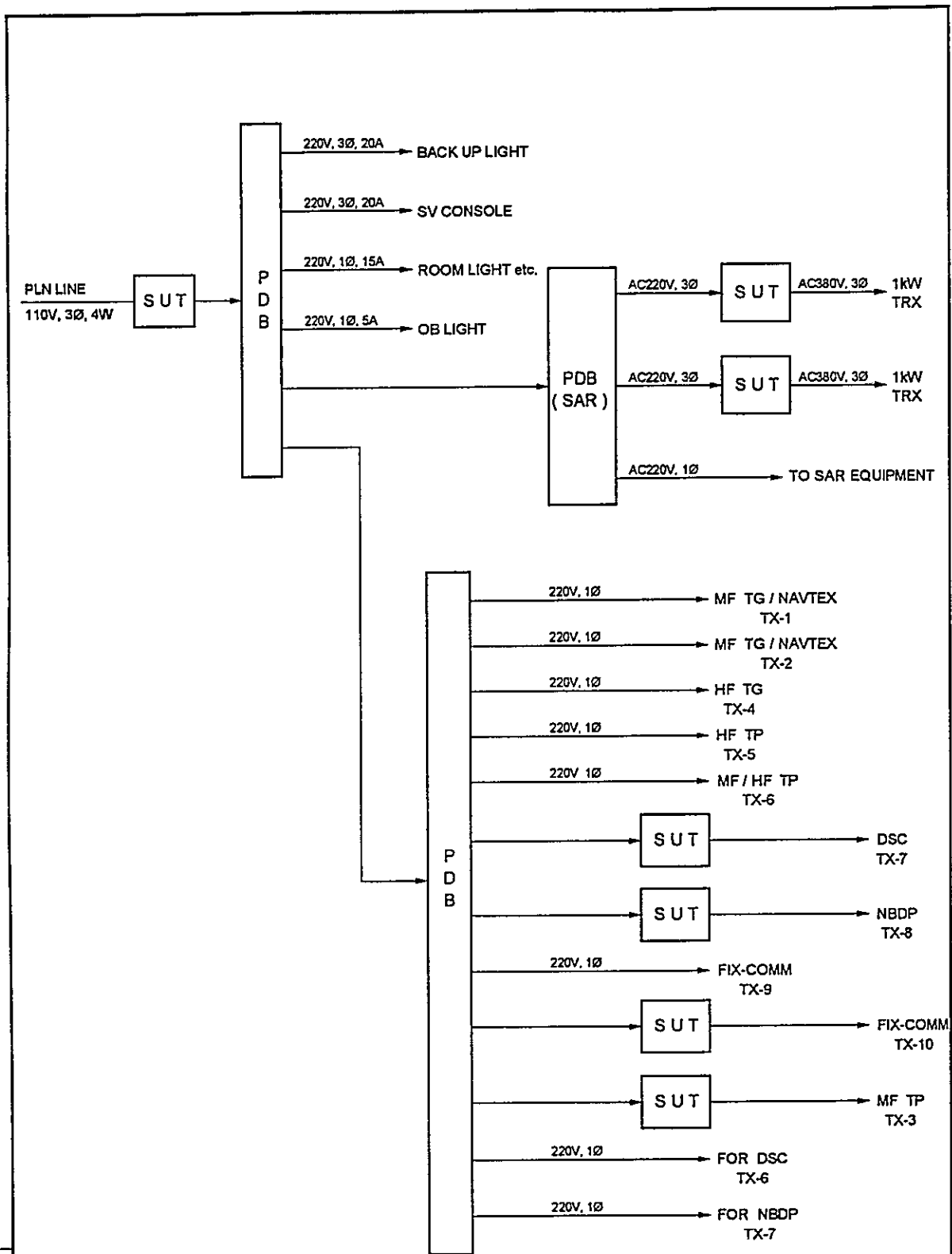
DATE July 09, 2001	DRAWING TITLE E/G FLOOR LAYOUT FOR TX STATION	SHEET NO. 1 / 1
SCALE 1 : 50	SITE NAME MAKASSAR	
DIMENSION Millimeter	DRAWING NO. S, R, O, P, - M, K, S, - 1, 5, 3, - 4, T	
- PT. Aneka Asia Buana		



DRAWN BY: AAS
 APPROVED BY: JICA

- LEGEND**
- ANT . ANTENNA
 - AMU . ANTENNA MATCHING UNIT
 - B/T . BALUNTS TRANS
 - DUP . DUPLEXER
 - DSC . DIGITAL SELECTIVE CALLING
 - HF . HIGH FREQUENCY
 - IL . INVERTED L
 - MD . MULTI DOUBLET
 - MF . MEDIUM FREQUENCY
 - MDF . MAIN DISTRIBUTION FRAME
 - MUX . MULTIPLEXER
 - NSDP . NARROW - BAND DIRECT - PRINTING
 - TX . TRANSMITTER
 - UHF . ULTRA HIGH FREQUENCY
 - WT . WIRE T TYPE

DATE July 09, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM FOR TX STATION	SHEET NO. 1/1
SCALE No Scale	SITE NAME MAKASSAR	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, M, K, S, -, 1, 5, 3, -, 5, T	



DRAWN BY AAR
 APPROVED BY JICA

LEGEND

AC	ALTERNATING CURRENT	TP	TELEPHONY
DSC	DIGITAL SELECTIVE CALLING	TX	TRANSMITTER (ING)
HF	HIGH FREQUENCY	V	VOLT
MF	MEDIUM FREQUENCY	Ø	PHASE
NBDP	NARROW - BAND DIRECT - PRINTING		
PDB	POWER DISTRIBUTION BOARD		
SUT	STEP - UP TRANSFORMER		
TG	TELEGRAPHY		

DATE	DRAWING TITLE	SHEET NO.
July 09, 2001	POWER BLOCK DIAGRAM FOR TX STATION	1 / 1
SCALE	SITE NAME	
No Scale	MAKASSAR	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, M, K, S, -, 1, 5, 3, -, 6, T	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Pare-pare (Coast Station No. 154)

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	PARE-PARE		
	CLASS	4th-A	NO.	154

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Atletik	0421-27088		119° 37' 44" E	04° 01' 03" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Makassar [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	100,000
By Car	to Pare-Pare [Taking time: 3:00 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Motel	
		<input type="checkbox"/> Unpaved road	<input type="checkbox"/> Light		
		<input type="checkbox"/> None			

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

3.1 Site Conditions				
Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
<input type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input checked="" type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/> Antenna
<input checked="" type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input checked="" type="checkbox"/> Limestone	<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy			<input checked="" type="checkbox"/> Lightning system
Altitude	50.00 M		Telephone Lines	<input checked="" type="checkbox"/> Feeder Cable Way
Land area	1,000 m ²		<input checked="" type="checkbox"/> 1 Lines	<input checked="" type="checkbox"/> City water

3.2 Building Conditions		3.3 Power Source				
Constructions		PLN Source	E/G	Existing Power Conditions		
Num. of story	One	Voltage	220 V	Good Bad		
Structure	Concrete	Phase	1	<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System		
Type of roof	Roof Tile	Wire	2	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G		
Type of ceiling	Asbestos	kVA	1.3	<input type="checkbox"/> <input type="checkbox"/> Operations of AVR		
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine		
Wall finish	Mortar	Fluctuations	220 V ± 10 %		Day tank	5 Liter
Flooring	Ceramic	Availability of power per day	24 Hours	Main tank	k Liter	
Room Area (m ²)		Power interruption /month		E/G Stand-by System		
Operation room	32.5	Total interpt. hours /month		<input type="checkbox"/> Single System		
E / G room	49.50	Max. interpt. hours at once		<input checked="" type="checkbox"/> Dual System		
Remark						

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

SUMMARY OF COAST STATION	SITE	PARE-PARE		
	CLASS	4th-A	NO.	154

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	1		
1999					1994				1999	1		
2000					1995				2000	2		

7. COMMENTS

Suggestion	Coast Station must be completed by GMDSS system, minimal Area A1. For Public correspondence from SROP to ship or the opposite, it must be done by Coast Station Class-I Makassar.
Remarks	

INVENTORY

Site Name: Pare-Pare

PPR-154-(1/1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter		3953	ICOM	1994			Good
1		SSB Transceiver	IC-M700						
1-2		VHF System		51643	ICOM	1996			Good
1		VHF Radio Transceiver	IC-2000						
2		Tower & Antenna System							
2-1		Tower & Mast							
1		Antenna Tower							Good
2		Antenna Tower							Good
3		Power Supply Equipment							
3-1		UPS & AVR System							
1		Accumulator	N200		GS	1994			No Good
3-1		Engine Generator							Damaged
1		Engine Generator (1 kVA)							Damaged
2		Engine Generator (3 kVA)							Damaged
4		Measuring Equipment							
1		Multi Meter	SP-15		Sanwa				Good

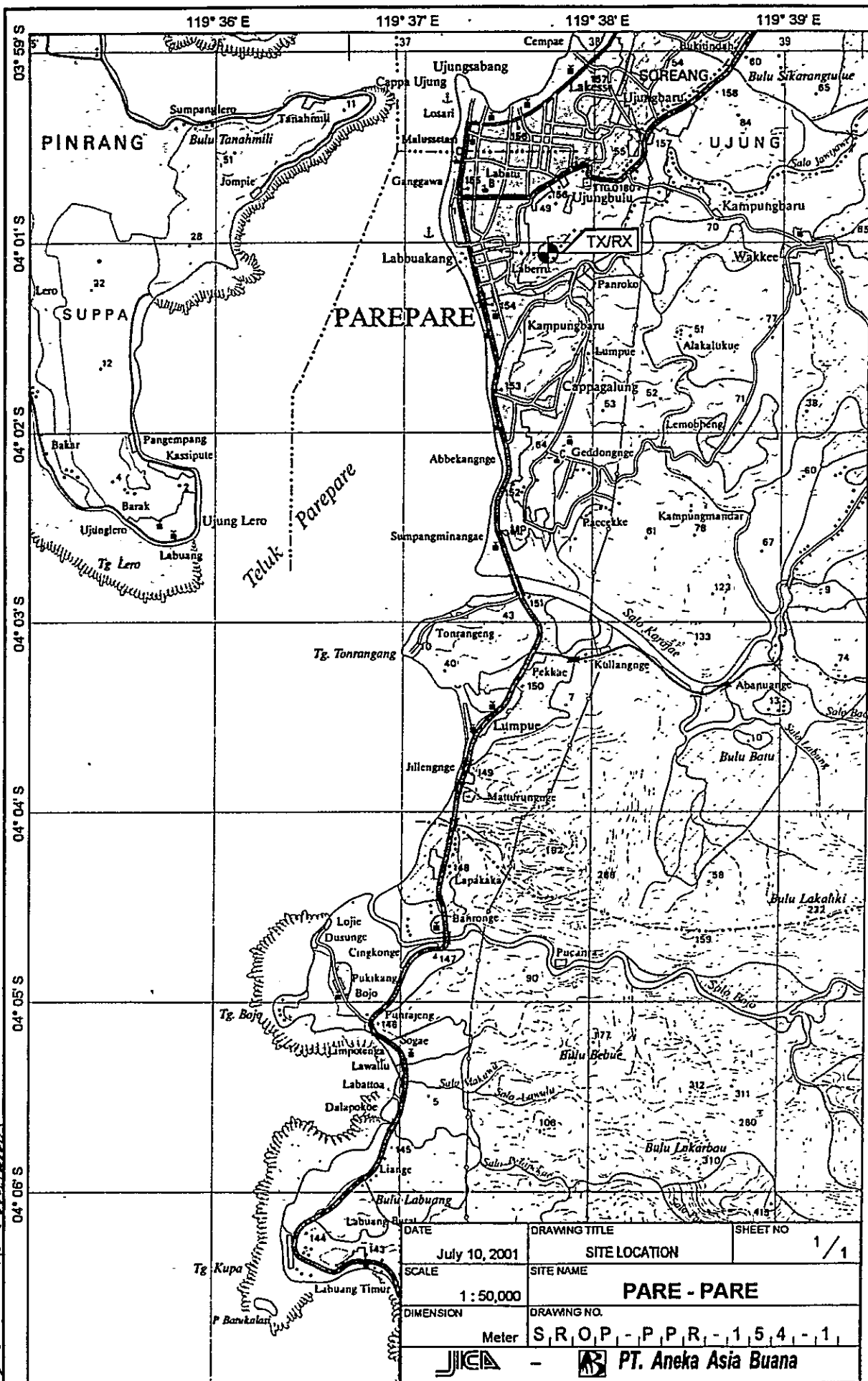
Makassar

STATUS OF TROUBLES

SITE NAME : PARE-PARE

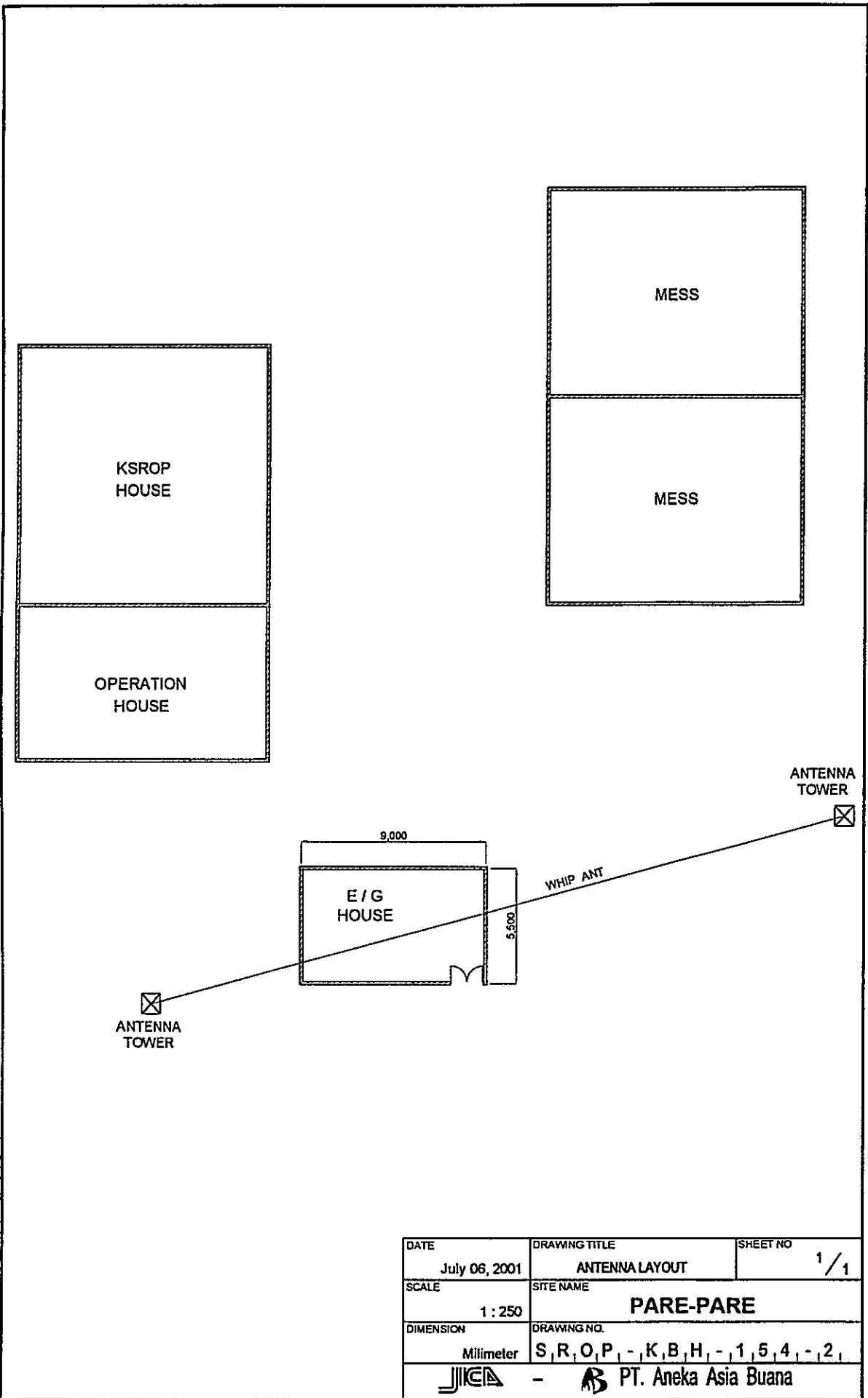
PPR-154-(1/1)


Item / Equipment	- / -		
Manufacturer	-		
Manufacturer in year	-		
Defective panel / unit	-		
Details of Trouble Status	Cause due to:		Repairing to be:
	<input type="checkbox"/> Aging		<input type="checkbox"/> Immediacy
	<input type="checkbox"/> Lightning		<input type="checkbox"/> By next year budget
	<input type="checkbox"/> Corrosion		<input type="checkbox"/> By next project
	<input type="checkbox"/> Lack of Spares		<input type="checkbox"/> Unnecessary
	<input type="checkbox"/> Others		
Urgency of Repair			
<u>General Comment for Maintenance:</u>			
Engine Generator heavily damaged			





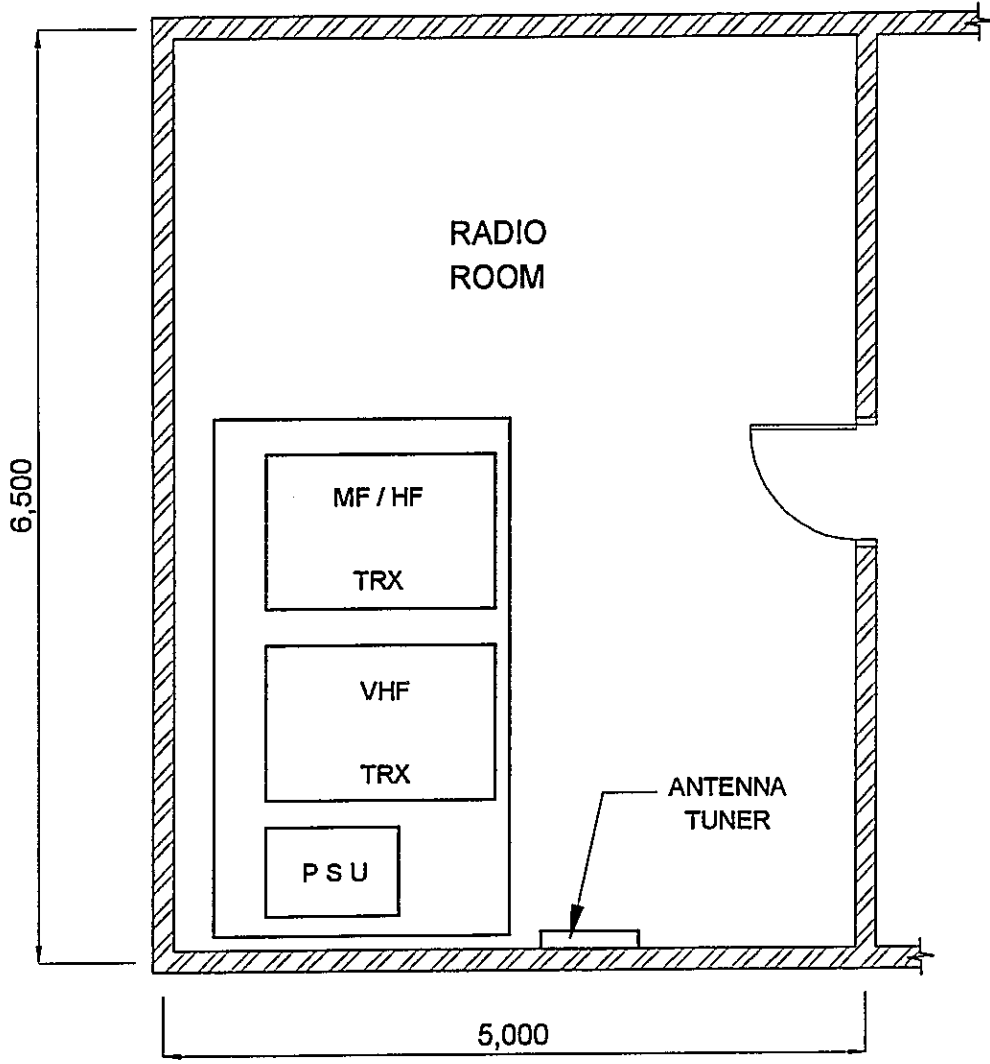
DRAWN BY AAB
 APPROVED BY JICA: *[Signature]*

DATE	DRAWING TITLE	SHEET NO
July 10, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 50,000	PARE - PARE	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P - P, P, R, - 1, 5, 4 - 1	



DRAWN BY AAB
 APPROVED BY JICA


DATE July 06, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1/1
SCALE 1 : 250	SITE NAME PARE-PARE	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, K, B, H, -, 1, 5, 4, -, 2, 1	
 -  PT. Aneka Asia Buana		

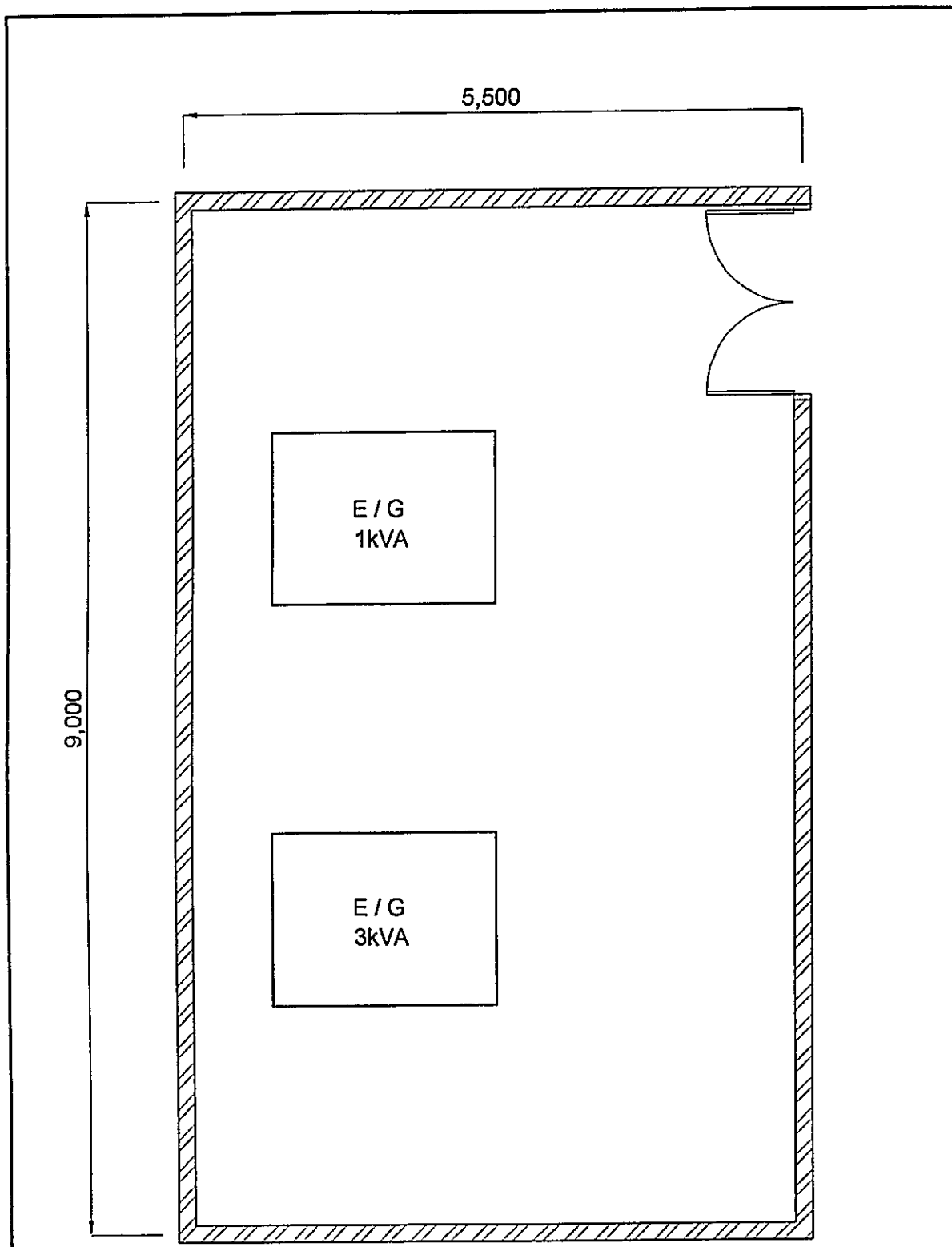


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 APPROVED BY JJCA: *[Signature]*

LEGEND

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

DATE	DRAWING TITLE	SHEET NO.
July 06, 2001	EQUIPMENT FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 50	PARE-PARE	
DIMENSION	DRAWING NO.	
Millimeter	S, R, O, P, - K, B, H, - 1, 5, 4, - 3,	
- PT. Aneka Asia Buana		

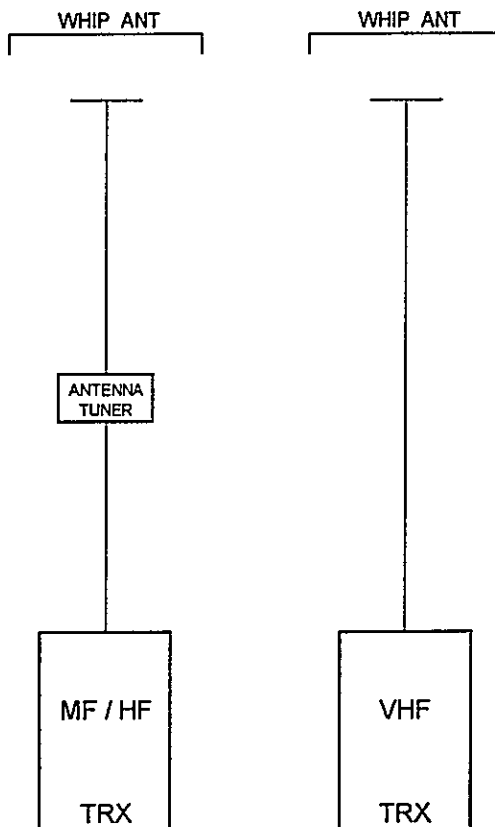


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 APPROVED BY JICA: *[Signature]*

LEGEND

E/G : ENGINE GENERATOR
 kVA : KILO VOLT AMPERE

DATE July 06, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO 1/1
SCALE 1 : 50	SITE NAME PARE-PARE	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - K, B, H, - 1, 5, 4, - 4,	
- PT. Aneka Asia Buana		

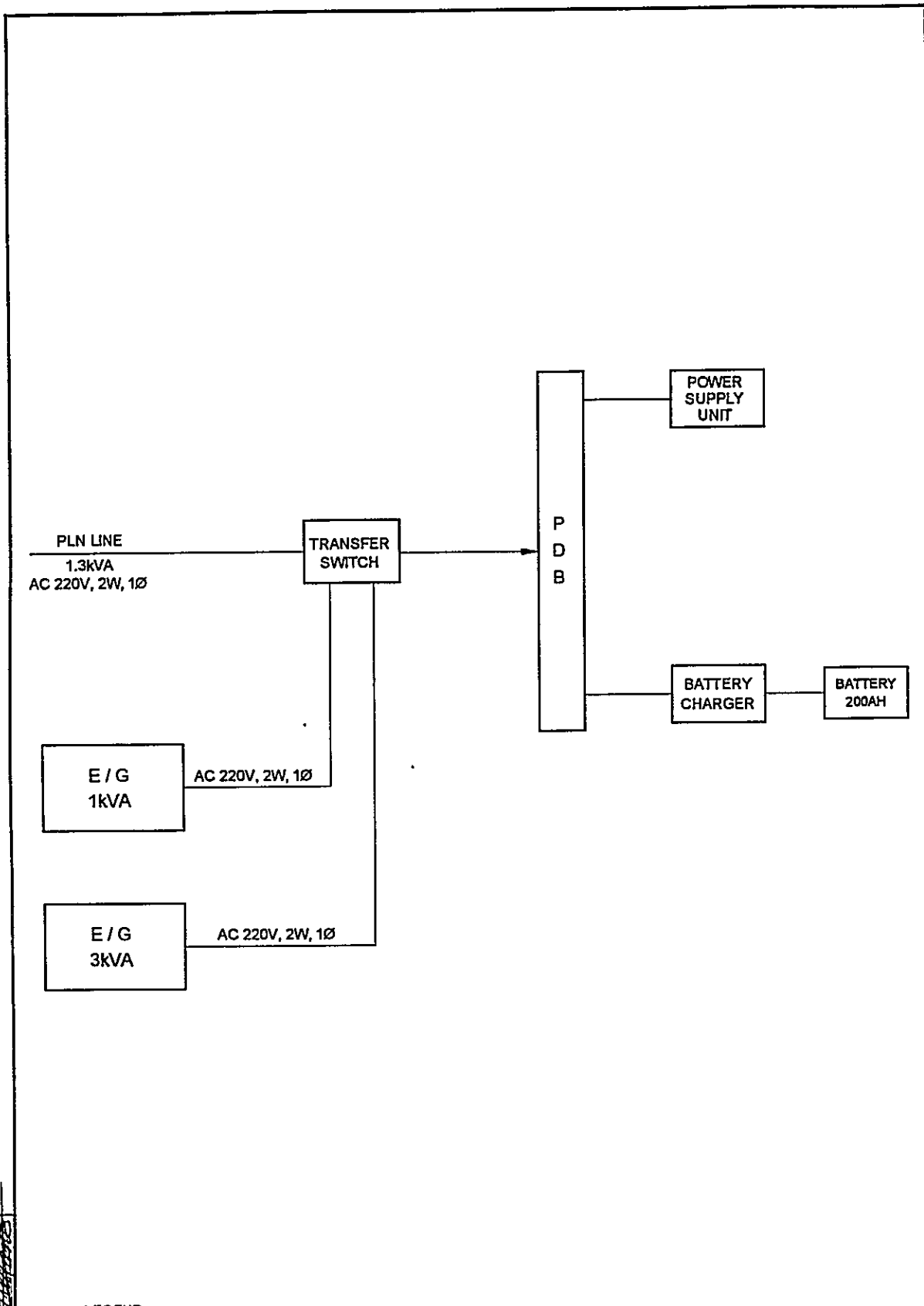


LEGEND

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

APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO
July 30, 2001	SYSTEM BLOCK DIAGRAM	1/1
SCALE	SITE NAME	
No Scale	PARE-PARE	
DIMENSION	DRAWING NO	
Millimeter	S, R, O, P, -, P, P, R, -, 1, 5, 4, -, 5, 1	
- PT. Aneka Asia Buana		



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 APPROVED BY JICA

LEGEND

- AC : ALTERNATING CURRENT
- AVR : AUTOMATIC VOLTAGE REGULATOR
- V : VOLT
- W : WIRE / WATT
- Ø : PHASE

DATE	DRAWING TITLE	SHEET NO
July 30, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	PARE-PARE	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - P, P, R, - 1, 5, 4, - 6	
- PT. Aneka Asia Buana		

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

**4th-A Class Coast Station
Mamuju -
(Coast Station No. 155)**

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	MAMUJU		
	CLASS	4th-A	NO.	155

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No. 1	0426-22274		118° 53' 20" E	02° 40' 28" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Makassar [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	30,000
By Car	to Location [Taking time: 10.00 hr.]	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
		<input checked="" type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> None		

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

3.1 Site Conditions					
Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/>	<input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy		<input checked="" type="checkbox"/> Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	3.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	500.00 m ²		<input checked="" type="checkbox"/> 1 Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> City water

3.2 Building Conditions			3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input checked="" type="checkbox"/>	<input type="checkbox"/> Power Supply System
Type of roof	Zinc	Wire	2	<input type="checkbox"/>	<input checked="" type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA	0.9	<input type="checkbox"/>	<input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	220 V ± 10 %	Day tank	Liter
Flooring	Mortar	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	10 Times	E/G Stand-by System	
Operation room	12.00	Total interpt. hours /month	30 Hours	<input checked="" type="checkbox"/>	Single System
E / G room	5.00	Max. interpt. hours at once	3 Hours	<input type="checkbox"/>	Dual System
Remark					

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

SUMMARY OF COAST STATION	SITE	MAMUJU		
	CLASS	4th-A	NO.	155

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		1			1993				1998			
1999		1			1994				1999			
2000		2			1995				2000			

7. COMMENTS	
Suggestion	Marine Safety Communication was done, after received information from the owner ship/agent/crew of the ship that there is accident in the sea.
Remarks	

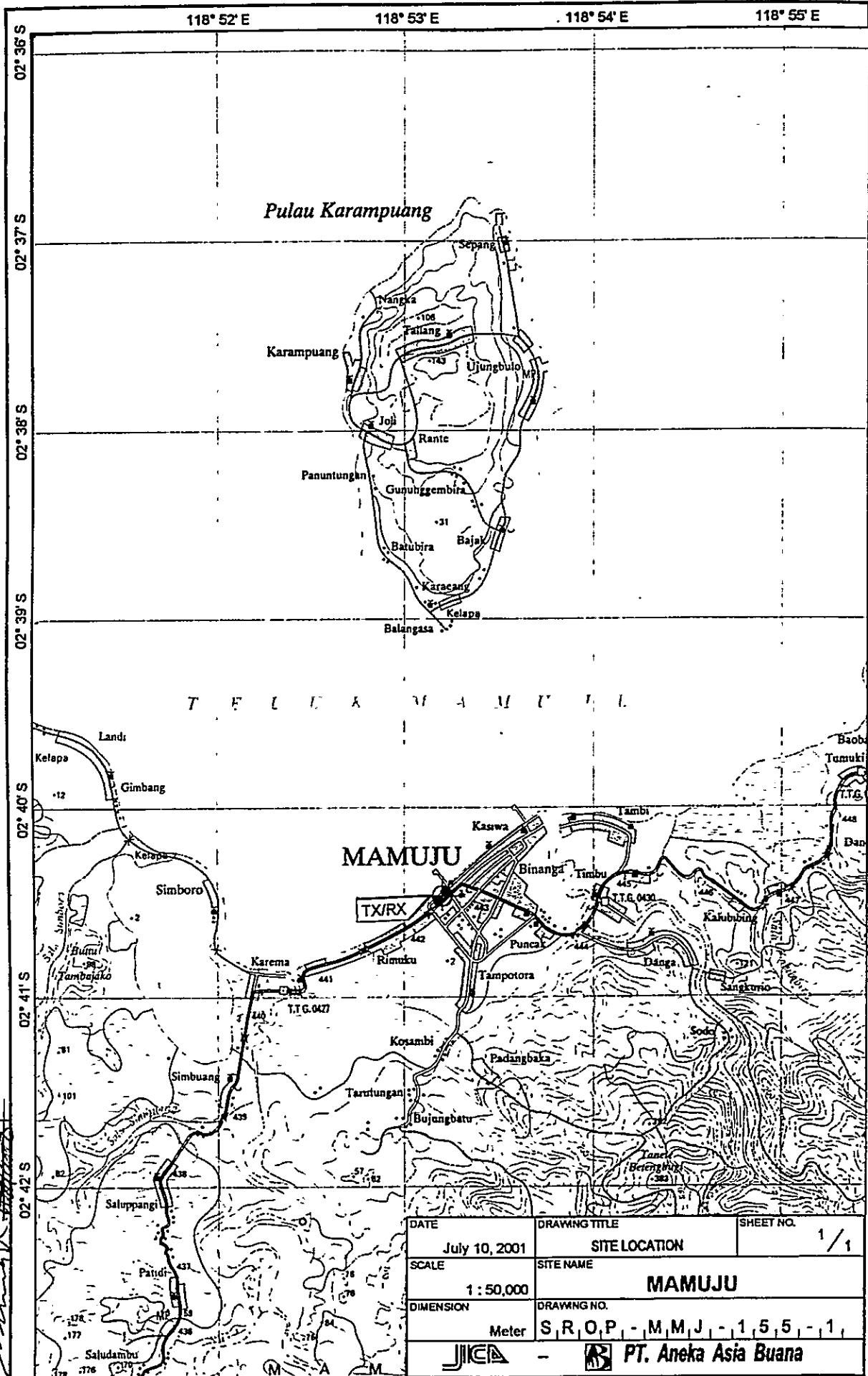
INVENTORY

Site Name: Mamuju

MMJ-155- (1 / 1)

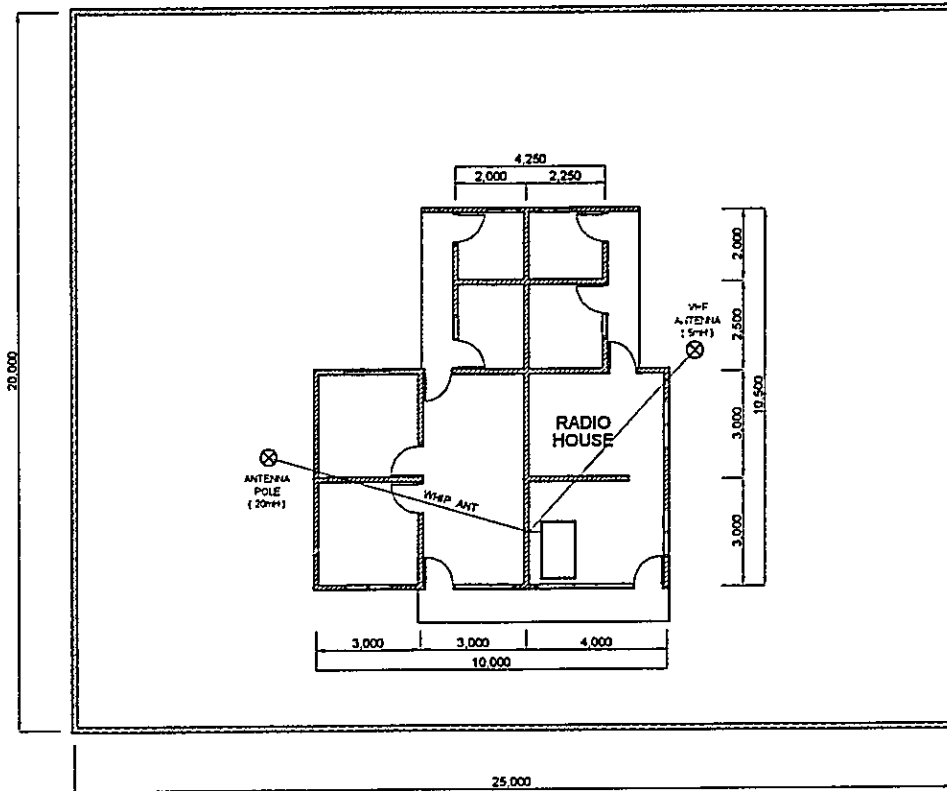
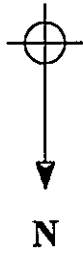
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter							
1		MF/HF Transceiver		5520-243	Furuno	1978			Good
2		MF/HF Transceiver	IC-M700	6369	ICOM				
2-1		VHF System							
1		VHF Transceiver	IC-2100H	36699	ICOM				Good
2		Tower & Antenna System							
2-1		Tower & Mast							
1		Iron Pipe Tower							Good
2-2		Antenna Matching Unit							
1		Antenna Matcher	MN-100		ICOM				Good
3		Power Supply Equipment							
3-1		UPS & AVR							
1		Power Supply							Good
3-2		Engine Generator							Good
1		Engine Generator (0,45 kVA)	SP-3500		ICOM				Good
4		Others							
1		Key (1 Set)							Good
2		Typewriter							Good
3		Tool Sheet	Portable						Good

Makassar



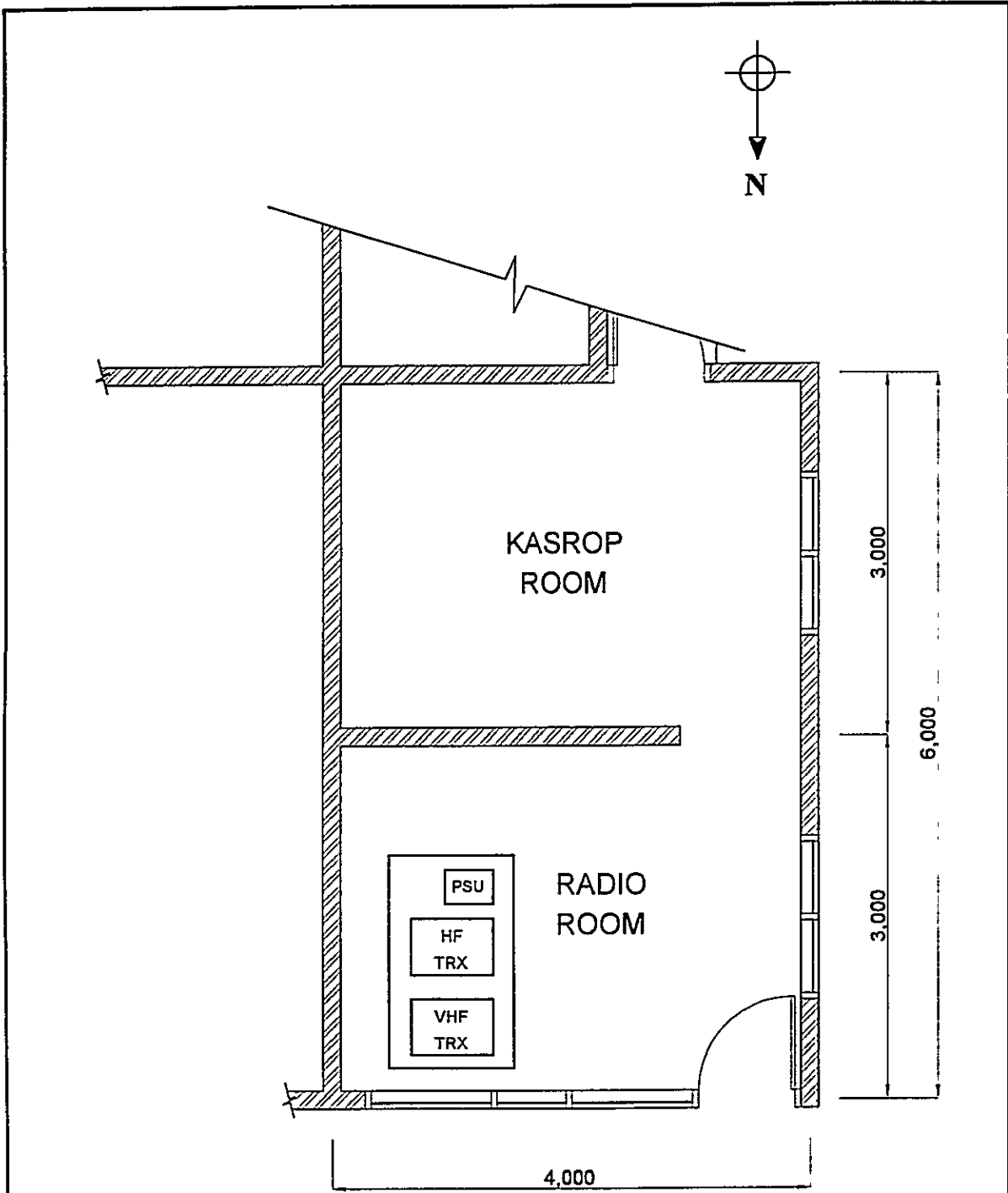
DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO.
July 10, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 50,000	MAMUJU	
DIMENSION	DRAWING NO.	
Meter	S.R.O.P. - M.M.J. - 1.5.5 - 1	
PT. Aneka Asia Buana		



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 APPROVED BY JICA



DATE	DRAWING TITLE	SHEET NO
August 24, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 200	MAMUJU	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - M, M, J, - 1, 5, 5, - 2,	
- PT. Aneka Asia Buana		

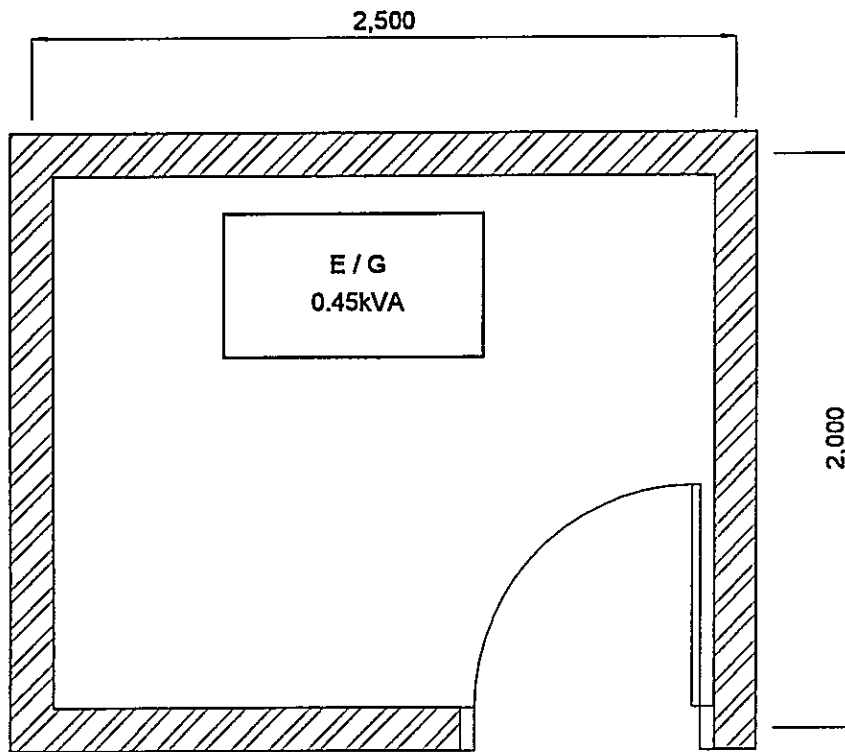


LEGEND

- HF : HIGH FREQUENCY
- PS : POWER SUPPLY
- VHF : VERY HIGH FREQUENCY
- TRX : TRANSCEIVER

DRAWN BY AAB
 APPROVED BY JICA




DATE August 24, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1/1
SCALE 1:50	SITE NAME MAMUJU	
DIMENSION Millimeter	DRAWING NO S,R,O,P,-,M,M,J,-,1,5,5,-,3,	
 -  PT. Aneka Asia Buana		

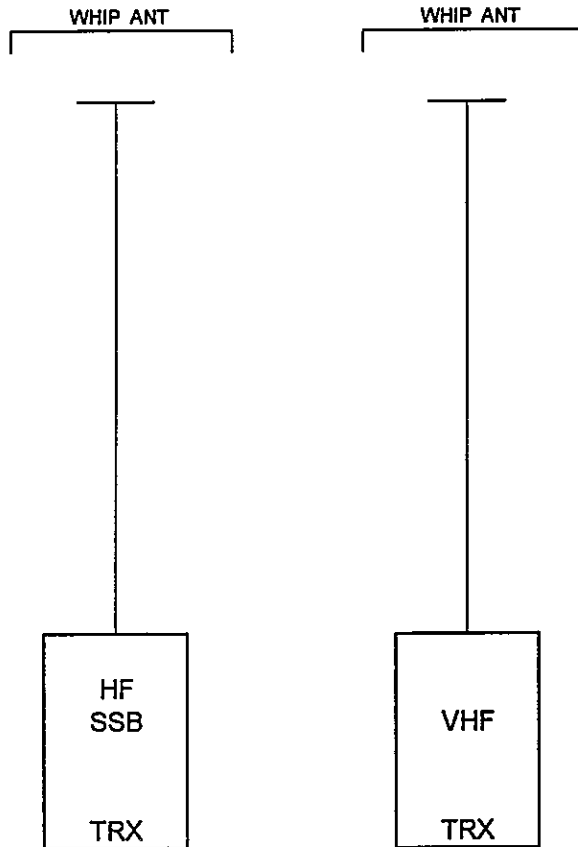


LEGEND

E/G : ENGINE GENERATOR
 KVA : KILO VOLT AMPERE

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 APPROVED BY JICA



DATE July 06, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO 1/1
SCALE 1 : 50	SITE NAME MAMUJU	
DIMENSION Millimeter	DRAWING NO. S, R, O, P, - M, M, J, - 1, 5, 5, - 4	
 -  PT. Aneka Asia Buana		

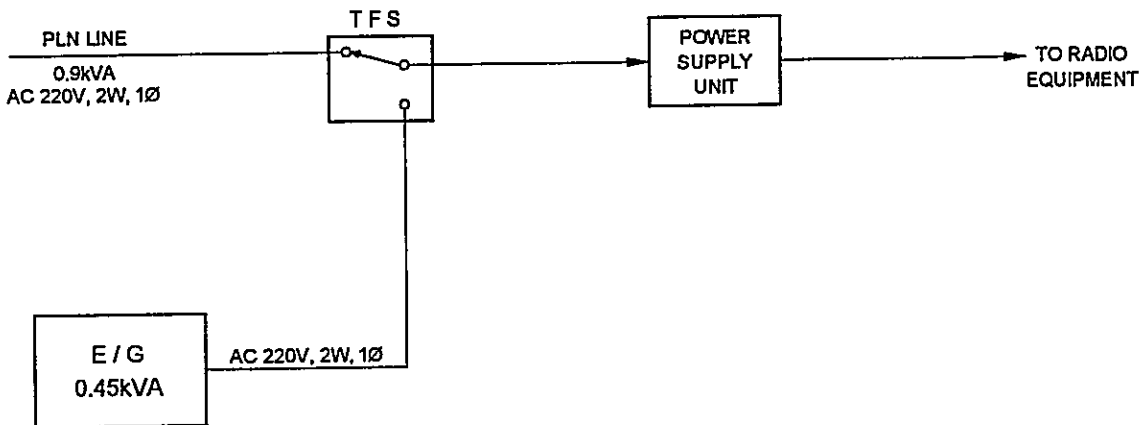


LEGEND

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

APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO.
July 06, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	MAMUJU	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, M, M, J, -, 1, 5, 5, -, 5,	
 -  PT. Aneka Asia Buana		



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

LEGEND

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

DATE	DRAWING TITLE	SHEET NO
July 06, 2001	POWER BLOCK DIAGRAM	1/1
SCALE	SITE NAME	
No Scale	MAMUJU	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - , M, M, J, - , 1, 5, 5, - , 6, 1	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Palopo (Coast Station No. 156)

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	PALOPO		
	CLASS	4th-A	NO.	156

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No. 67, Palopo Luwu	0471-325360		120° 12' 10" E	02° 59' 20" S

2. GENERAL CONDITIONS

Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Makassar [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	
By Car	to Palopo [Taking time: 10:00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
		<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system	
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input checked="" type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/>	<input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy			<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	5.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	276.00 m ²		<input checked="" type="checkbox"/> 1 Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> City water

3.2 Building Conditions

3.3 Power Source

Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage 220 V	V	Good	Bad
Structure	Concrete	Phase 1		<input checked="" type="checkbox"/>	<input type="checkbox"/> Power Supply System
Type of roof	Asbestos	Wire 2		<input type="checkbox"/>	<input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA 1.5		<input type="checkbox"/>	<input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	220 V ± 10 %	Day tank	Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	3 Times	E/G Stand-by System	
Operation room	12.00	Total interpt. hours /month	6 Hours	<input type="checkbox"/>	Single System
E / G room		Max. interpt. hours at once	3 Hours	<input type="checkbox"/>	Dual System
Remark					

4. OPERATION AND MAINTENANCE

5. PERSONNEL FORMATIONS

Actions taken in equipment failure				TX/RX	
Restoration flow	Repaired by himself			Chief	1
Examples of major failure				Operator (skilled)	2 (1) 0
Sufficiency of spares	Not enough			Technician (skilled)	0 0
Records of damages		Environmental Conditions		Administrator	
<input type="checkbox"/> Heavy rainfall		Good	Bad		
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/>	External noises	Total 3
<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air pollution	
<input type="checkbox"/> Other calamity					
Institutional and Human Statuses				Training Record	
1 Budget	<input type="checkbox"/> Sufficient	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Insufficient	Course	Class
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough	Location	Period
3 Measuring eqpt./tools	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough	Trainee	
4 Number of Operator	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough		
5 Number of Technician	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" type="checkbox"/> Not enough		
6 Capability of Operator	<input checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable		
7 Capability of Technician	<input type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input checked="" type="checkbox"/> Not capable		

SUMMARY OF COAST STATION	SITE	PALOPO		
	CLASS	4th-A	NO.	156

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	Coast Station must be completed by GMDSS, minimum A1 Office location must be moved, because there is widening of road
Remarks	Coast Station not yet use for Public Correspondence

INVENTORY

Site Name: Palopo

PLP-156- (1 / 1)

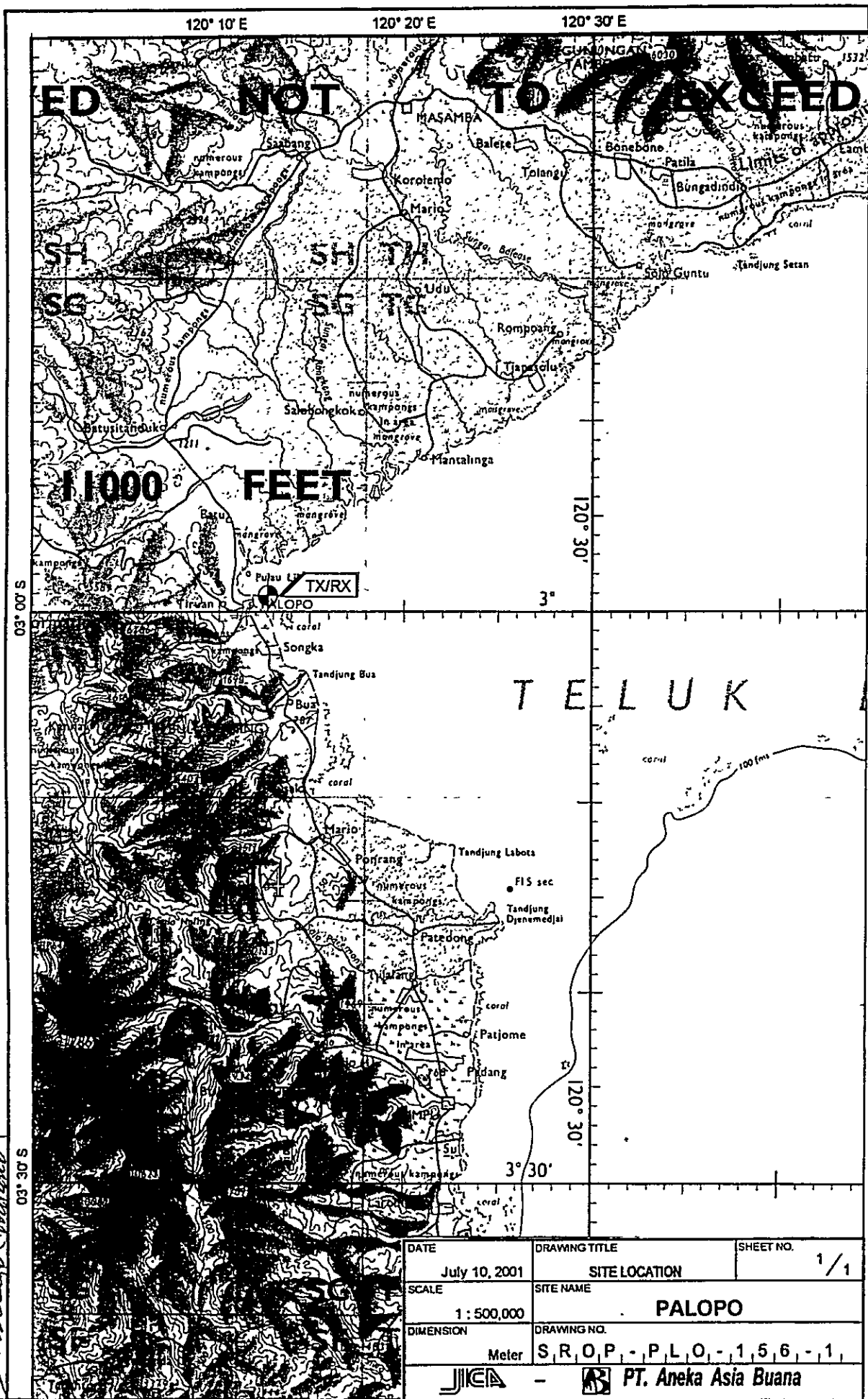
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter							
1		HF Transceiver	IC-M700	20124	ICOM	1994			Good
2		MF/HF Transceiver	NS-11A	5320043	Furuno	1978			Damaged
2		Tower & Antenna System							
2-1		Antenna Selector	CN-419		Daiwa				Good
1		Antenna Tuner	MN-100	H.12248					Damaged
2		Antenna Balun Mancher							
3		Power Supply Equipment							
3-1		UPS & AVR							
1		Power Supply	RPC-7130	D.22789	Koyania				Good

STATUS OF TROUBLES

SITE NAME : PALOPO

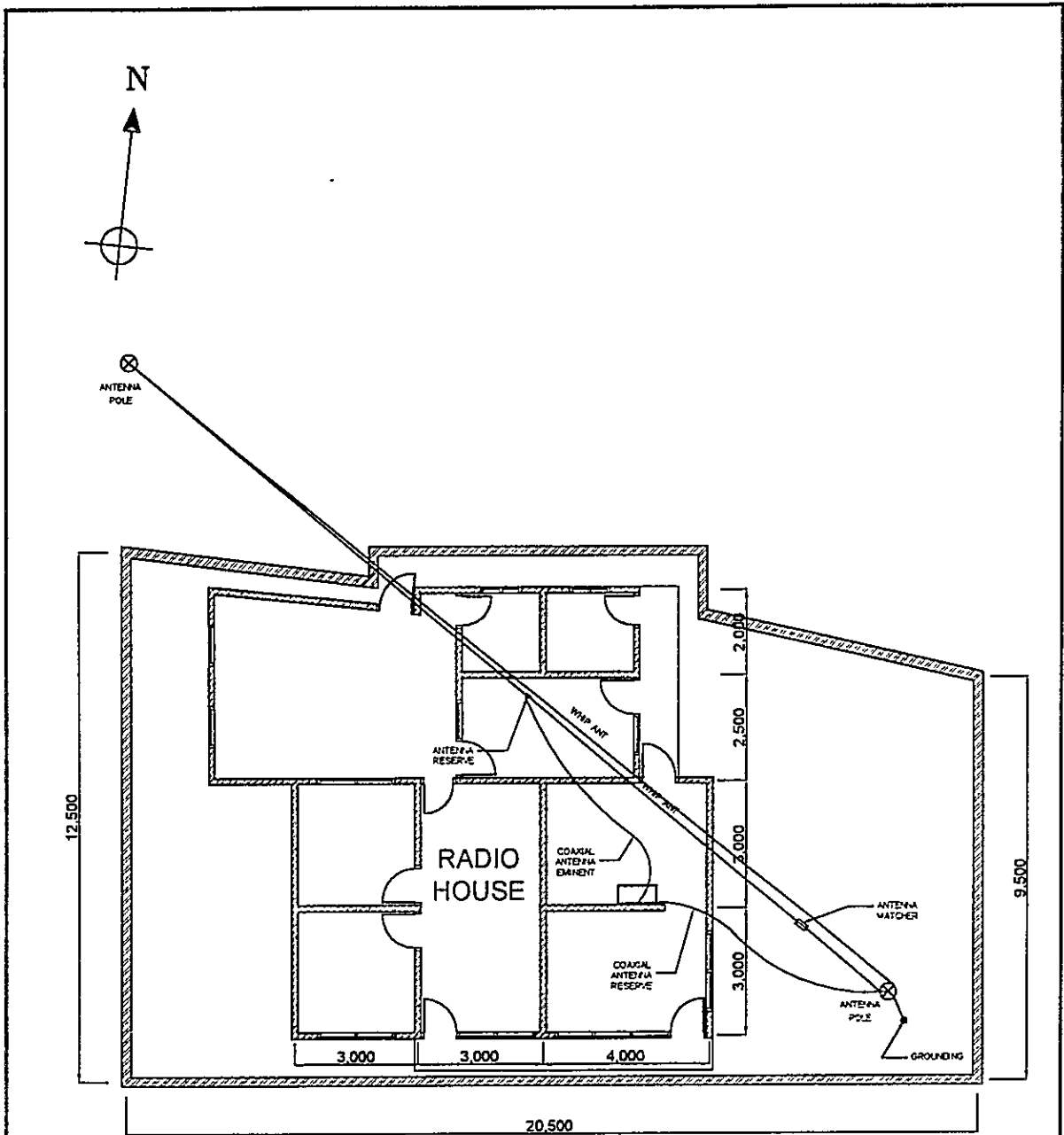
PLO-156-(1/1)

Item / Equipment	Tower 15M / -		
Manufacturer	Makassar Navigation		
Manufacturer in year	1980		
Defective panel / unit	Tower Structure		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	<input type="checkbox"/> Aging		<input type="checkbox"/> Immediacy
	<input type="checkbox"/> Lightning		<input checked="" type="checkbox"/> By next year budget
	<input checked="" type="checkbox"/> Corrosion		<input type="checkbox"/> By next project
	<input type="checkbox"/> Lack of Spares		<input type="checkbox"/> Unnecessary
	<input type="checkbox"/> Others		
<u>General Comment for Maintenance:</u>			
Antenna Tower must be repaired			



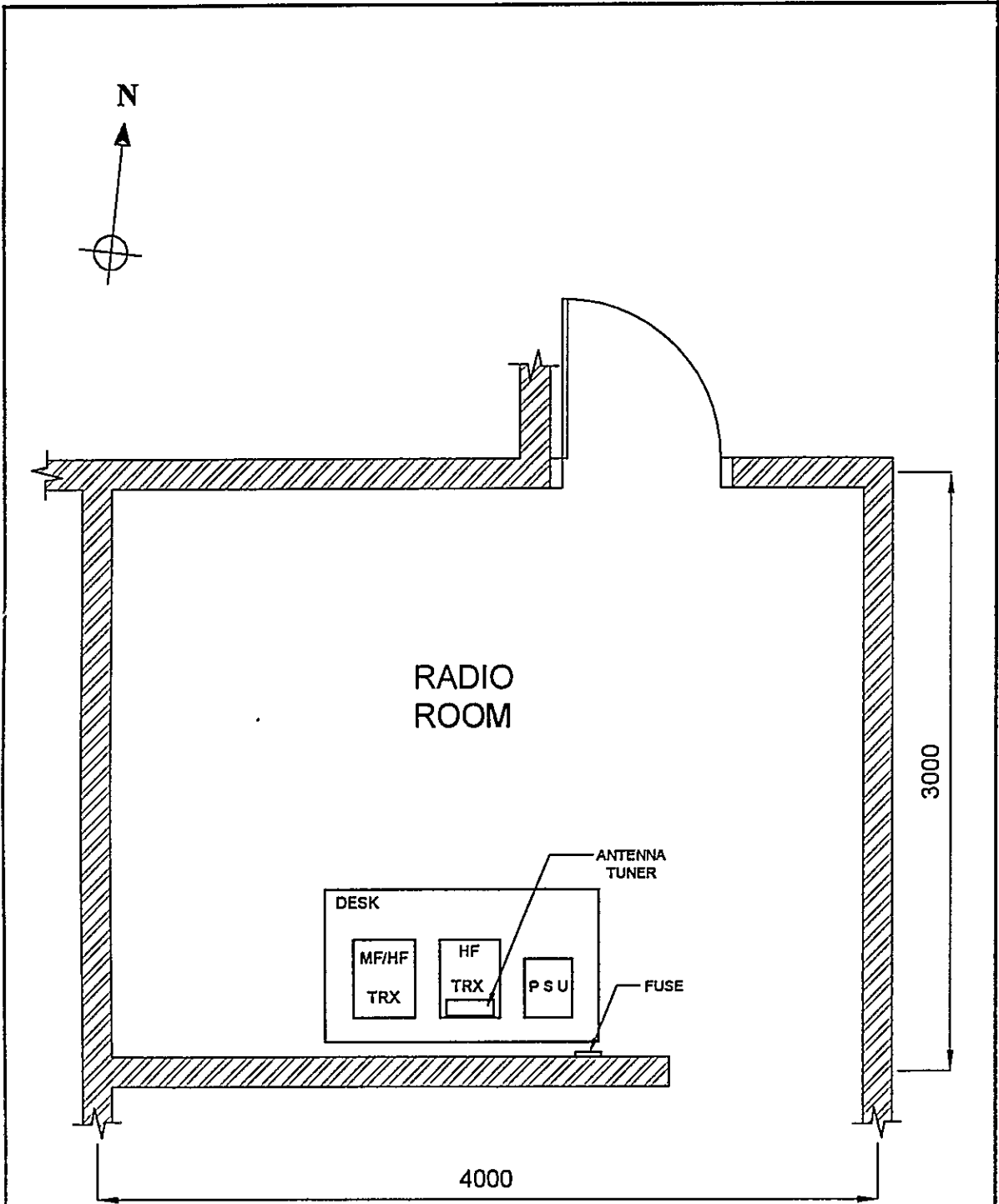
DRAWN BY AAB
 APPROVED BY AICA
 S 03 03

DATE	DRAWING TITLE	SHEET NO.
July 10, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 500,000	PALOPO	
DIMENSION	DRAWING NO.	
Meter	S.R.O.P - P.L.O. - 1.5.6 - 1	



DRAWN BY AAB
 APPROVED BY JICA

DATE Sept 13, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1/1
SCALE 1:150	SITE NAME PALOPO	
DIMENSION Milimeter	DRAWING NO S,R,O,P,-,P,L,O,-,1,5,6,-,2,	
- PT. Aneka Asia Buana		

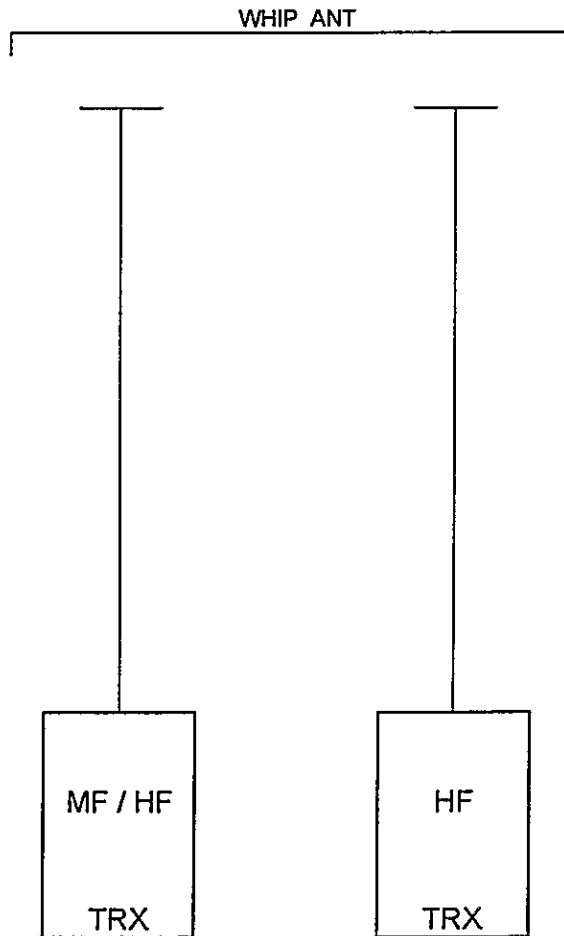


DRAWN BY AAB, APPROVED BY JICA.

LEGEND

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

DATE	DRAWING TITLE	SHEET NO
Sept 13, 2001	EQUIPMENT FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 30	PALOPO	
DIMENSION	DRAWING NO	
Millimeter	S, R, O, P, - , P, L, O, - , 1, 5, 6, - , 3,	
-		PT. Aneka Asia Buana



LEGEND

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

DATE	DRAWING TITLE	SHEET NO
July 30, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	PALOPO	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, P, L, O, -, 1, 5, 6, -, 5, 1	
- PT. Aneka Asia Buana		

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

PLN LINE
1.5kVA
AC 220V, 2W, 1Ø



POWER
SUPPLY
UNIT

TO MF/HF
TRX

LEGEND

AC : ALTERNATING CURRENT
KVA : KILO VOLT AMPERE
V : VOLT
W : WIRE / WATT
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 PALOPO	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - P, L, O, - 1, 5, 6, - 6,	
 -  PT. Aneka Asia Buana		

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

4th-B Class Coast Station Bulukumba (Coast Station No. 157)

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	BULUKUMBA		
	CLASS	4th-B	NO.	157

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No. 7	81295		120° 12' 00" E	05° 33' 17" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Makassar [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	
By Car	to Location [Taking time: 3:00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
		<input type="checkbox"/> Unpaved road	<input checked="" type="checkbox"/> Light		
			<input type="checkbox"/> None		

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

3.1 Site Conditions					
Topography		Nature of Soil		Past disaster of site	Confirmation of existing system
<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No
<input type="checkbox"/> Slope	<input type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input checked="" type="checkbox"/> Flood Tide	<input checked="" type="checkbox"/>	<input type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/>	<input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay		<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy			<input checked="" type="checkbox"/>	<input type="checkbox"/> Lightning system
Altitude	5.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	m ²		<input checked="" type="checkbox"/> 1 Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> City water

3.2 Building Conditions			3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions	
Num. of story	One	Voltage	220 V	Good Bad	
Structure	Concrete	Phase	1	<input type="checkbox"/>	<input checked="" type="checkbox"/> Power Supply System
Type of roof	Zinc	Wire	2	<input type="checkbox"/>	<input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA	0.9	<input type="checkbox"/>	<input checked="" type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	220 V ± 10 %	Day tank	Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	10 Times	E/G Stand-by System	
Operation room	12.00	Total interpt. hours /month	10 Hours	<input type="checkbox"/>	<input type="checkbox"/> Single System
E / G room		Max. interpt. hours at once	1 Hours	<input type="checkbox"/>	<input type="checkbox"/> Dual System
Remark					

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

SUMMARY OF COAST STATION	SITE	BULUKUMBA		
	CLASS	4th-B	NO.	157

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			

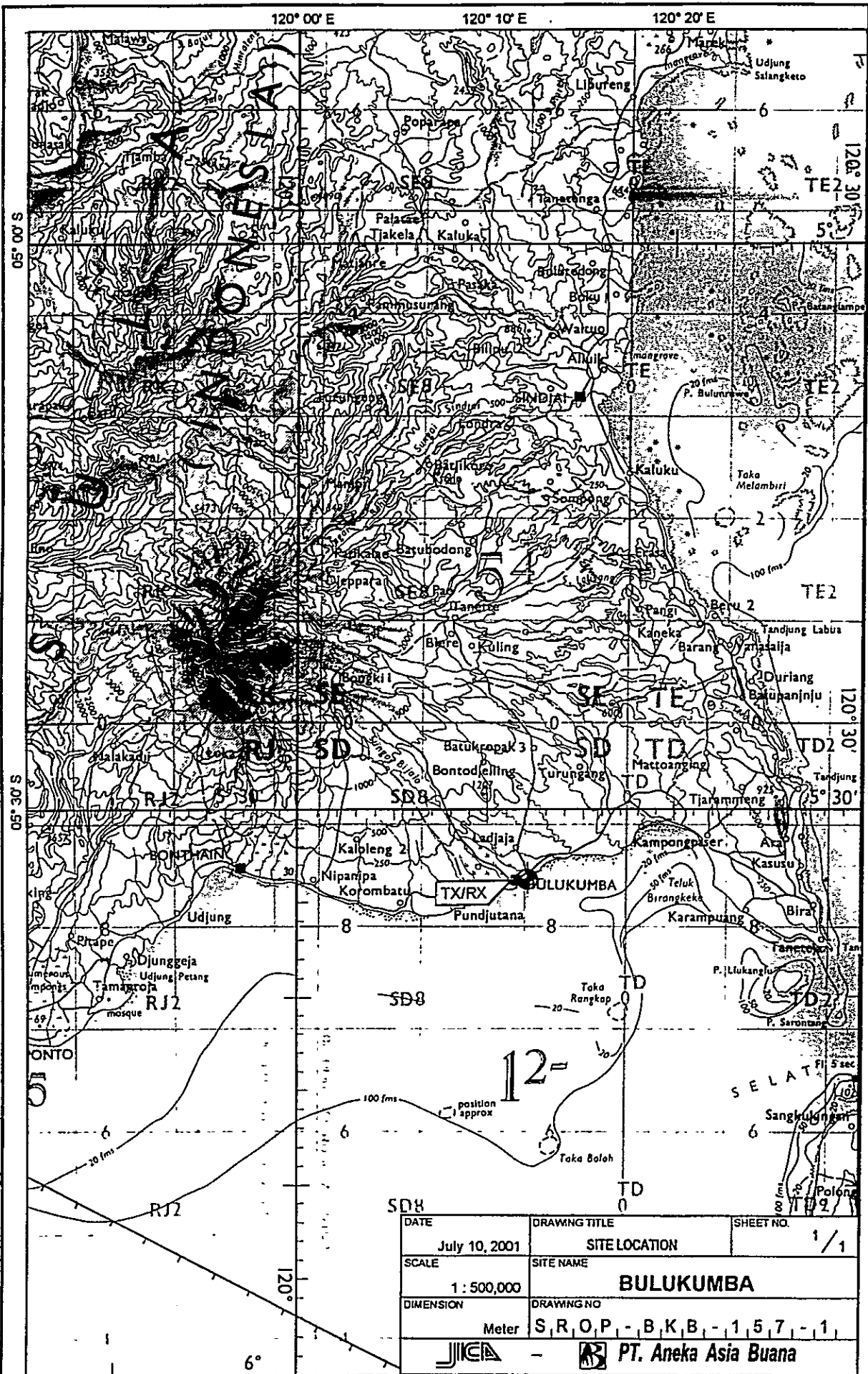
7. COMMENTS	
Suggestion	Coast Station equipment replaced in Port Office, Radio communication only for official used, as the channel for commandant of Diijen Hubla
Remarks	- Coast Station not yet used for public correspondence, and it is operated by Kanpel Staff

INVENTORY

Site Name: Bulukumba

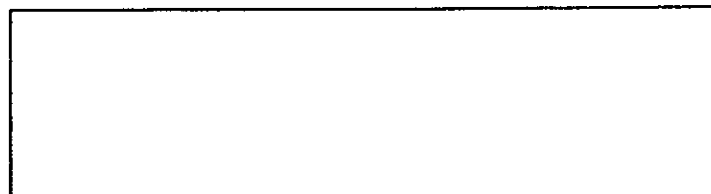
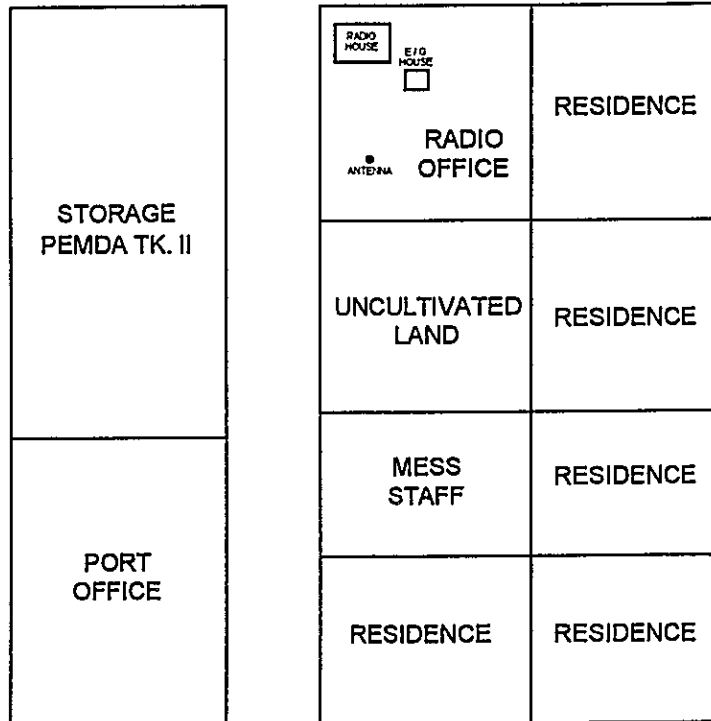
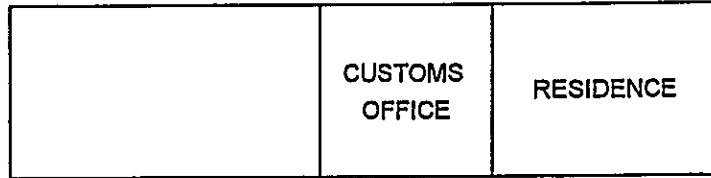
BKB-157-(1/1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1 1-1 1		Radio Equipment Transmitter MF/HF Transceiver	IC-77	04115	ICOM				Good



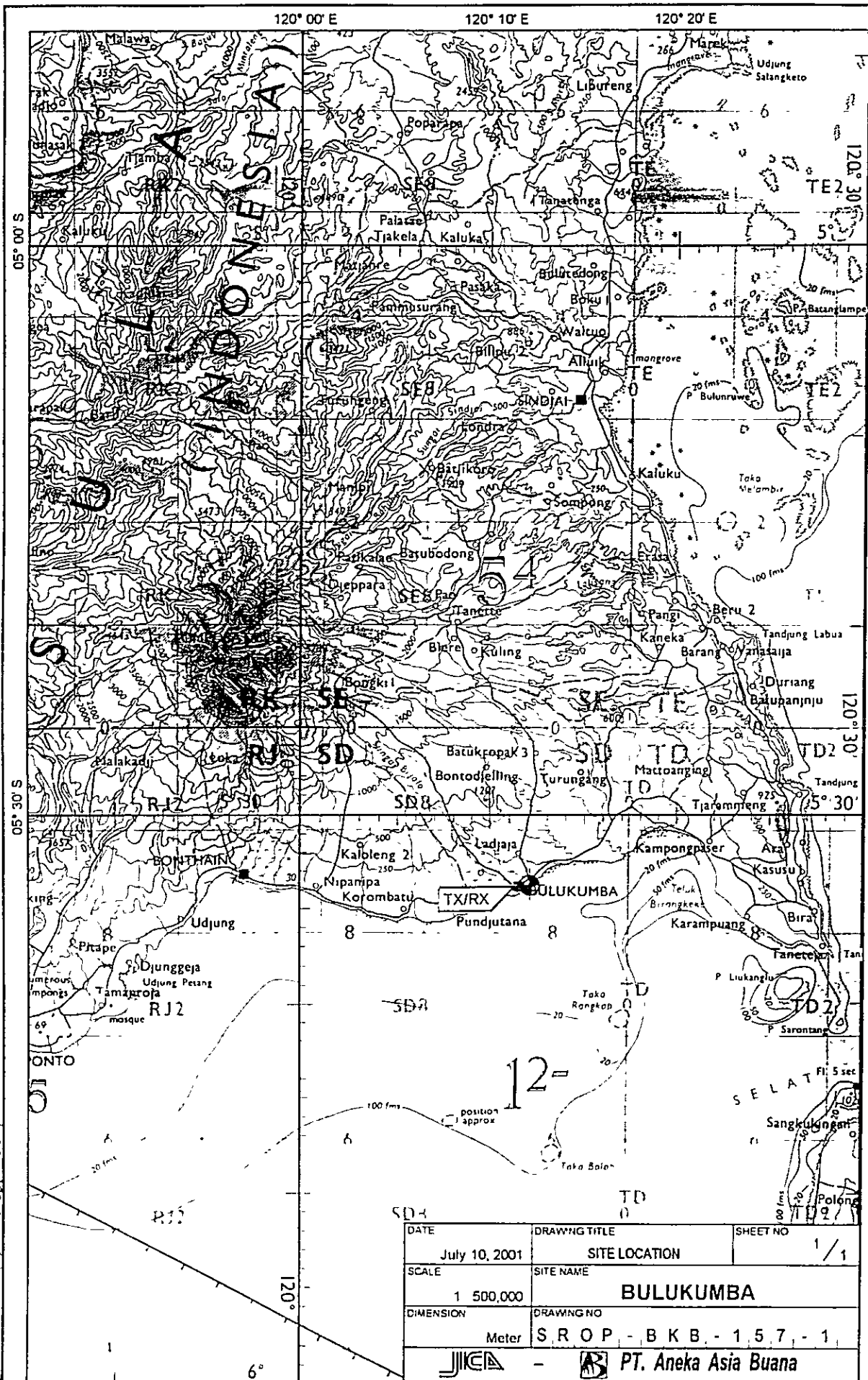
DRAWN BY AAB
 APPROVED BY JICA: *[Signature]*

DATE	DRAWING TITLE	SHEET NO.
July 10, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 500,000	BULUKUMBA	
DIMENSION	DRAWING NO	
Meter	S, R, O, P, - B, K, B, - 1, 5, 7, - 1	



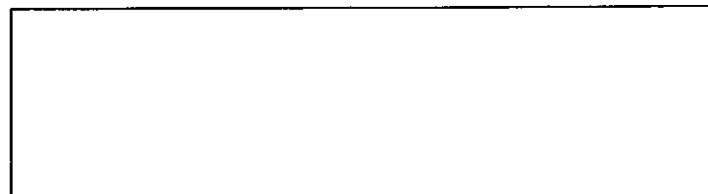
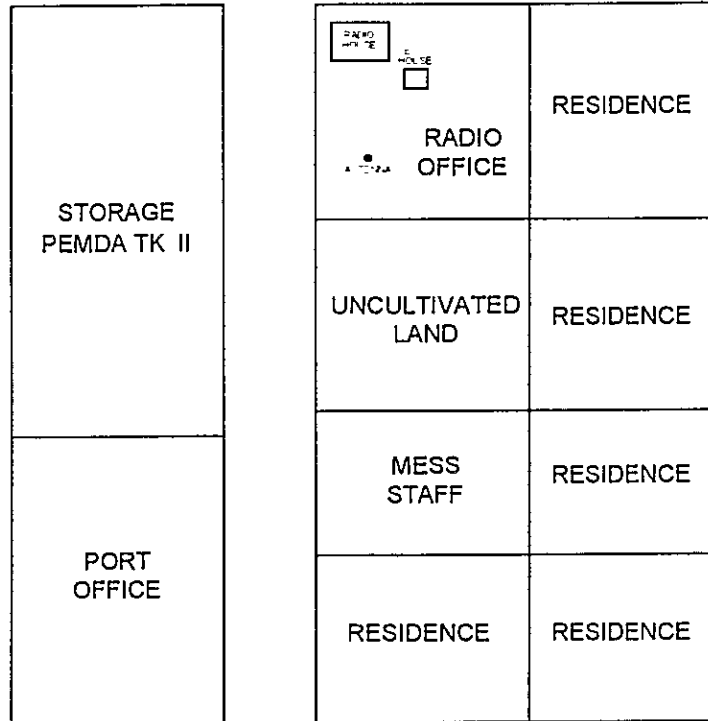
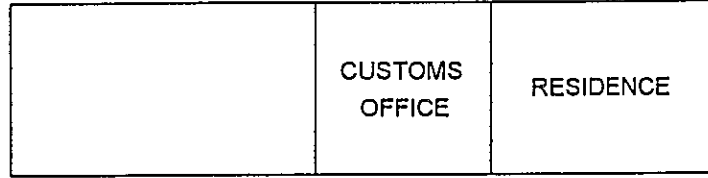
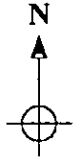
DRAWN BY: *[Signature]*
 APPROVED BY: JICA *[Signature]*

DATE August 02, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1/1
SCALE 1 : 750	SITE NAME BULUKUMBA	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - B, K, B, - 1, 5, 7, - 2,	
- PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
July 10, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 500,000	BULUKUMBA	
DIMENSION	DRAWING NO	
Meter	S R O P - B K B - 1 5 7 - 1	
- PT. Aneka Asia Buana		



DRAWN BY: AAB
 APPROVED BY: JICA

DATE August 02, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1/1
SCALE 1 : 750	SITE NAME BULUKUMBA	
DIMENSION Millimeter	DRAWING NO S R O P - B K B - 1 5 7 - 2	
- PT. Aneka Asia Buana		

WHIP ANT

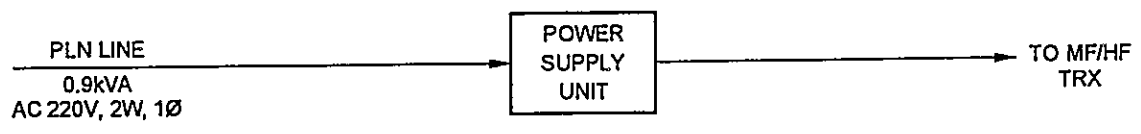


LEGEND

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

APPROVED BY JICA
DRAWN BY AAB



DATE	July 30, 2001	DRAWING TITLE	SYSTEM BLOCK DIAGRAM	SHEET NO	1/1
SCALE	No Scale	SITE NAME			
		BULU KUMBA			
DIMENSION	Milimeter	DRAWING NO.			
		S, R, O, P, -, B, K, B, -, 1, 5, 7, -, 5,			
		- PT. Aneka Asia Buana			



DRAWN BY: AAB: 
 APPROVED BY: JICA: 

LEGEND

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

DATE July 30, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME BULU KUMBA	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, B, K, B, -, 1, 5, 7, -, 6,	
 -  PT. Aneka Asia Buana		