

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

4th-B Class Coast Station Pangkalan Susu (Coast Station No. 20)

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	PANGKALAN SUSU		
	CLASS	4th-B	NO.	20

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				98° 10' 30" E	04° 07' 00" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Medan [Taking time: 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	
By Car	to Location [Taking time: 4.00 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
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3.1 Site Conditions			
Topography	Nature of Soil		Past disaster of site
<input 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 type="checkbox"/> Sandy		
Altitude	M		Telephone Lines
Land area	m²		<input type="checkbox"/> Lines

3.2 Building Conditions		3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions
Num of story		Voltage	V	Good Bad
Structure		Phase		<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System
Type of roof		Wire		<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G
Type of ceiling		kVA		<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of AVR
Type of wall		Quality of PLN source		Capacity of fuel for engine
Wall finish		Fluctuations	V ± %	Day tank
Flooring		Availability of power per day	Hours	Main tank
Room Area (m²)		Power interruption /month	Times	E/G Stand-by System
Operation room		Total interpt. hours /month	Hours	<input type="checkbox"/> Single System
E / G room		Max. interpt. hours at once	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 type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input 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 COAST STATION	SITE	PANGKALAN SUSU		
	CLASS	4th-B	NO.	20

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: Pangkalan Susu

PLS-020- (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									

**OPERATION SCHEDULE
(FREQUENCIES)**

Site Name: Pangkalan Susu

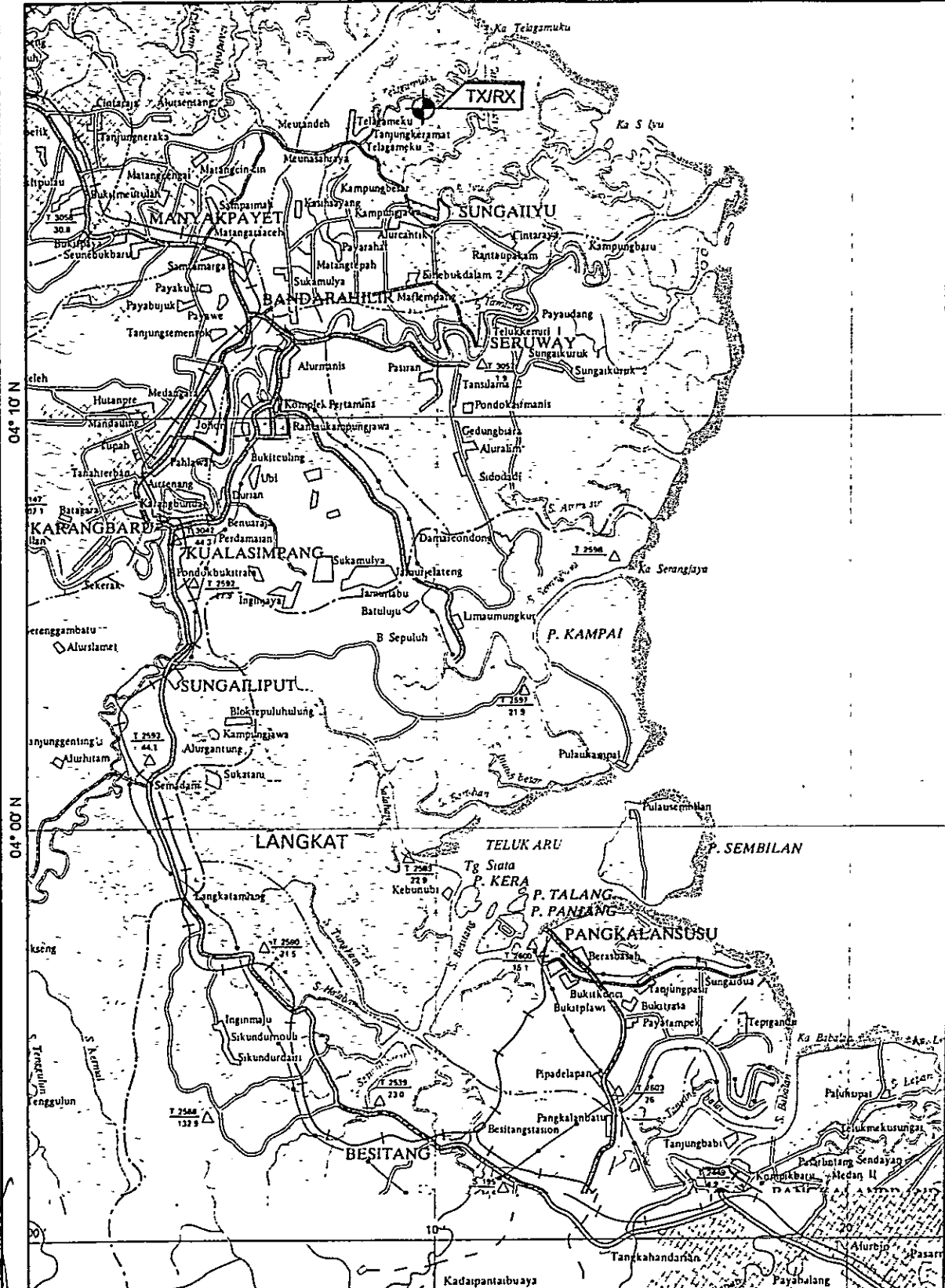
Call Sign : Mobile Service
Fix Service :

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

**Data not Available due to no
Response from Coast Station**

98° 10' E

98° 20' E



DRAWN BY AAB
 APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
July 18, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	PANGKALAN SUSU	
DIMENSION	DRAWING NO	
Meter	S, R, O, P, - P, L, S, - 0, 2, 0, - 1, 1	

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

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

**SUB DISTRICT NAVIGATION AREA (3)
SIBOLGA**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

Sub District Navigation Area (3) Sibolga

Table of Content

DISNAV	3	Sibolga	Sub
SROP	21	Sibolga	3rd Class
	22	Gunung Sitoli	4th-A Class
	23	Pulau Tello	4th-A Class
	24	Lahewa	4th-A Class
	25	Teluk Dalam	4th-A Class

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

**Sub District Navigation Office (Area-3)
Sibolga**

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- Summary of Coast Station
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- 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	SIBOLGA		
	CLASS	Sub	NO.	3

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Horas No 5, Sibolga	0631-22197	0631-22197	98° 47' 00" E	01° 43' 54" N

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to Medan [Taking time: 2 00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	54,000
By Ship to Sibolga [Taking time: 9 00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input type="checkbox"/> Motel	
	<input type="checkbox"/> Unpaved road	<input checked="" 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	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 checked="" type="checkbox"/> Dry Stony	<input type="checkbox"/> <input checked="" type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy	<input checked="" type="checkbox"/> Ground Subsidence	<input type="checkbox"/> <input checked="" type="checkbox"/> Lightning system
Altitude	3 m	Telephone Lines	<input type="checkbox"/> <input checked="" type="checkbox"/> Feeder Cable Way
Land area	850 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	1	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System
Type of roof	Asbestos	Wire	2	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling	Wooden/Asbestos	kVA	6 6	<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	V ± 25 %	Day tank 100 Liter
Flooring	Mortar	Availability of power per day	24 Hours	Main tank 0 1 k Liter
Room Area (m ²)		Power interruption /month	4 Times	E/G Stand-by System
Operation room	99	Total interpt. hours /month	20 Hours	<input checked="" type="checkbox"/> Single System
E / G room		Max. interpt hours at once	8 Hours	<input type="checkbox"/> Dual System
Remark				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure								
Restoration flow	Repairment			Chief	1			
Examples of major failure	DSC Computer			Operator (skilled)	()			
Sufficiency of spares	Must be ordered in Jakarta			Technician (skilled)	()			
Records of damages			Environmental Conditions		Administrator	21		
<input type="checkbox"/> Heavy rainfall			Good	Bad				
<input type="checkbox"/> Storm			<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises	Total	22		
<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 type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input 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	SIBOLGA		
	CLASS	Sub	NO.	3

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	Regarding of availability Satellite Telecommunication System facility, it is not necessary additional Coast Station For the time being, total Coast Station in Sibolga is enough
Remarks	

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

3rd Class Coast Station Sibolga (Coast Station No. 21)

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	SIBOLGA		
	CLASS	3rd	NO.	21

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl Horas, Pelabuhan Sibolga	0631-21612		98° 47' 00" E	01° 43' 54" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Medan [Taking time 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	54,000
By Car	to Sibolga [Taking time 6.00 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
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3.1 Site Conditions			
Topography	Nature of Soil		Past disaster of site
<input checked="" type="checkbox"/> Flat	<input checked="" 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 checked="" type="checkbox"/> Ground Subsidence
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy		
Altitude	3.00 M		Telephone Lines
Land area	920.00 m ²		<input checked="" type="checkbox"/> 1 Lines

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	Asbestos	Wire	2	<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G	
Type of ceiling	Asbestos	kVA	6.6	<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	V ± %	Day tank	100 Liter
Flooring	Tile	Availability of power per day	24 Hours	Main tank	200 k Liter
Room Area (m²)		Power interruption /month	7 Times	E/G Stand-by System	
Operation room	36.00	Total interpt. hours /month	21 Hours	<input type="checkbox"/> Single System	
E / G room	23.00	Max interpt. hours at once	12 Hours	<input checked="" type="checkbox"/> Dual System	
Remark	One E/G (3 KVA) not operation				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure								
Restoration flow				Chief	TX/RX			
Examples of major failure	DSC Equipment			Operator (skilled)	9 (3)	()		
Sufficiency of spares	Must be ordered in Jakarta			Technician (skilled)	2 (1)	()		
Records of damages		Environmental Conditions		Administrator	1			
<input type="checkbox"/> Heavy rainfall				Good Bad				
<input type="checkbox"/> Storm				<input checked="" type="checkbox"/> <input type="checkbox"/> External noises	Total	13		
<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	Pre	I	JKT		1
3 Measuring eqpt /tools	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough	PRE	II	JKT		8
4 Number of Operator	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough	ORU	JKT			4
5 Number of Technician	<input type="checkbox"/> Enough	<input checked="" type="checkbox"/> Reasonable	<input 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 checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	SIBOLGA		
	CLASS	3rd	NO.	21

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	36	43			1991	150			1996	97		
1997	34	51			1992	112			1997	86		
1998	24	46			1993	161			1998	106		
1999	16	54	3	10	1994	123			1999	120		
2000	5	49	18		1995	116			2000	172		

7. COMMENTS	
Suggestion	RX and TX are colocation cause difficult to perform simultaneously communications For example: Distress Signal, Navigation Emergency etc, received by telegraph as Mapel from Jakarta DSC received in DSC/HF Frequency with automatic monitoring unit, NBDP connecting with NBDP Jakarta Radio/Bekasi
Remarks	

INVENTORY

Site Name: Sibolga

SBA-021- (1 / 4)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF SSB Transceiver	1200C	01249	Markoni	1964			Damaged
1	1 - 1	MF/HF Transceiver			Lusitronic	1985			Good
2		MF/HF Transceiver			PYE	1974			Damaged
3		HF Transceiver	130N	5676		1977			Damaged
4	1 - 2	HF Transceiver	NS 11 A	5320	Furuno	1981			Good
5	1 - 3	MF/HF Transceiver	FT 300 C	8204048	Yaesu	1993			Good
6	1 - 4	MF/HF Transceiver	JSB 161	BS24884	JRC	1993			Good
7	1 - 5	MF/HF Transceiver	FT 80 C	SJ290364	Yaesu	1995			Good
8	1 - 6	MF/HF Transceiver	FT 80 C	5E242010	Yaesu	1996			Good
1-2	1 - 11	MF/HF Radio Console							
1-2-1		MF/HF Console	RH-16-3		Sailor	1997	PFKP Jakarta		Good
1		MF / HF Equipment	T2131		Sailor	1997	PFKP Jakarta		Good
2		MF/HF Transmitter (600W)	T2131		Sailor	1997	PFKP Jakarta		Good
3		MF/HF Transmitter (600W) wall	N2171		Sailor	1997	PFKP Jakarta		Good
4		AC Power Supply	AT2112		Sailor	1997	PFKP Jakarta		Good
5		Antenna Coupler	AT2112		Sailor	1997	PFKP Jakarta		Good
6		Antenna Coupler -wall	AT2112		Sailor	1997	PFKP Jakarta		Good
1-2-2		CW Unit	H2185		Sailor	1997	PFKP Jakarta		Good
1		All Wave Receiver							
2		Control Unit	RE2100		Sailor	1997	PFKP Jakarta		Good
3		Control Unit	RE2100		Sailor	1997	PFKP Jakarta		Good
4		Duplex Receiver	R2120T		Sailor	1997	PFKP Jakarta		Good
5		Duplex Receiver	R2120T		Sailor	1997	PFKP Jakarta		Good
1		Loudspeaker	H2054		Sailor	1997	PFKP Jakarta		Good
2		Spot Receiver							
1		MF/HF DSC W/K RX	RM2150		Sailor	1997	PFKP Jakarta		Good
2		Power Supply	N2165		Sailor	1997	PFKP Jakarta		Good
1-2-3		Terminal Unit (DSC VHF/HF)							
1		DSC System	TT-6200A		Sailor	1997	PFKP Jakarta		Good
2		DSC Operation Position Terminal / PC	TT-3634A		Sailor	1997	PFKP Jakarta		Good
3		Printer (H-1252A)	TT-1608C		Sailor	1997	PFKP Jakarta		Good

INVENTORY

Site Name: Sibolga

SBA-021- (2 / 4)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		Monitor Display	TT-3602B		Sailor	1997	PFKP Jakarta		Good
5		DSC Alarm	TT-1542B		Sailor	1997	PFKP Jakarta		Good
1-2-4		Signal Control Panel	MTX-1616		Sailor	1997	PFKP Jakarta		Good
1		Audio/Digital Matrix	KK-1		Sailor	1997	PFKP Jakarta		Good
2		Keyer	H2054		Sailor	1997	PFKP Jakarta		Good
3		Loudspeaker	RTU-282		Sailor	1997	PFKP Jakarta		Good
4		Radio/Tel I/F Unit							
1-2-5		ARQ Equipment	TT-158E		Sailor	1997	PFKP Jakarta		Good
1		Radiotelex Modem	TT-1601A		Sailor	1997	PFKP Jakarta		Good
2		ARQ Key Board	TT1680C		Sailor	1997	PFKP Jakarta		Good
3		Printer (H1252A)	TT-1542B		Sailor	1997	PFKP Jakarta		Good
4		Telex Alarm							
1-3		Receiver							
1		MF/HF Receiver	NMR 1030K	01249	JRC	1976			Damaged
2		MF/HF Receiver	FRG 700	120M9143	Yaesu	1981			Damaged
3	1 - 7	MF/HF Receiver	FRG 8800	9D32006	Yaesu	1989			Good
4	1 - 8	MF/HF Receiver	R 1000	06126	Trio	1984			Good
1-4		VHF System							
1-4-1		VHF Transceiver							
1		VHF Transceiver	A 23	1442	Philips	1972			Damaged
2		VHF Transceiver	IC M80	01104	ICOM	1984			Damaged
3	1 - 9	VHF Transceiver	JHV-227YA	BE16882	JRC	1993			Good
4	1 - 10	VHF Transceiver	GM 300	159TVL4966	Motorola	1995			Good
1-4-2		VHF Radio Console							
1		Operation Console	RH-16-1		Sailor	1997	PFKP Jakarta		Good
2		Audio/Digital Matrix	MTX-1616		Sailor	1997	PFKP Jakarta		Good
3		Radio/Tel I/F Unit	RTU-280		Sailor	1997	PFKP Jakarta		Good
4		Multi-Channel VHF Transceiver							
4		VHF T/R (Modified)	RT 2048		Sailor	1997	PFKP Jakarta		Good
5		RF Linear Power Amplifier	A2080BE-I		Sailor	1997	PFKP Jakarta		Good
6		Duplex Filter			Sailor	1997	PFKP Jakarta		Good
7		Ch.70 VHF Transceiver							
7		VHF T/R	RT 2048		Sailor	1997	PFKP Jakarta		Good
8		High Low I/F Unit (Relay Box)			Sailor	1997	PFKP Jakarta		Good

Sibolga

INVENTORY

Site Name: Sibolga

SBA-021- (3 / 4)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
9		RF Power Amplifier	A2080BE-H		Sailor	1997	PFKP Jakarta		Good
10		AC Power Supply	NI63S		Sailor	1997	PFKP Jakarta		Good
11		AC Power Supply	PSF-1		Sailor	1997	PFKP Jakarta		Good
2		Tower & Antenna System							
2-1		Tower & Mast							
		TX Station							
1	2 - 1	20 mH Tower (x3)	Steel Structure		ICOM	1976			Good
2-2		Antenna System							
		TX Station							
1	2 - 2	Dipole Antenna (x3)	T		Sailor	1976			Good
2	2 - 3	Long Wire Antenna (x3)	L			1976			Good
3	2 - 4	Whip Antenna (x3)				1976			Good
2-3		Antenna Matching Unit							
1	2 - 5	Antenna Matcher	MNI100L		ICOM	1976			Good
2-4		Antenna Switch							
1	2 - 6	Antenna Tuner Unit	AT 1121	-	-	1997			
3		Power Supply Equipment							
3-1		UPS							
1	3 - 1	DC Power Supply	NBD150	BS24885	JRC	1976			Good
2	3 - 2	DC Power Supply	AK4040	-	Dakai	1976			Good
3	3 - 3	DC Power Supply	PS-40A	-	Sunka	1976			Good
3-2		Engine Generator							
1		7 PK Engine	ES-79	247453146	Hatz	1976			Good
2	4 - 1	3 KVA Generator	T295	74483	Alkmar	1976			Damaged
3	4 - 2	5 KVA Engine	V 1505 E	706650	Kubota	1997			Good
4		Measuring Equipment							
1	5 - 1	Multitester	YX360	-	Sanwa	1993			Good
2	5 - 2	SWR & RF Meter	-	-	Daiwa	-			Good
3	5 - 3	Proskit (x1)	-	-	-	1997			Good

Sibolga

INVENTORY

Site Name: Sibolga

SBA-021- (4 / 4)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5	6 - 1 6 - 2	Others Air Conditioner (x2) AVR	Window RE - 9009	- -	National Salicru	- -			Good Good

STATUS OF TROUBLES

SITE NAME : SIBOLGA

SBA-21-(1/1)

Item / Equipment	Radio Console / -	
Manufacturer	Sailor	
Manufacturer in year	1997	
Defective panel / unit	Computer DSC	
Details of Trouble Status	Cause doe to:	Urgency of Repair
	<input type="checkbox"/> Aging	
	<input type="checkbox"/> Lightning	
	<input checked="" type="checkbox"/> Corrosion	
	<input type="checkbox"/> Lack of Spares	
	<input type="checkbox"/> Others	
<u>General Comment for Maintenance:</u>		Repairing to be:
Spare part is difficult to find out, therefore it must be ordered in Jakarta and waiting for along time and Budget for maintenance of 5 Coast Stations in Sibolga Sub District Navigations is minimum		<input checked="" type="checkbox"/> Immediacy
		<input type="checkbox"/> By next year budget
		<input type="checkbox"/> By next project
		<input type="checkbox"/> Unnecessary

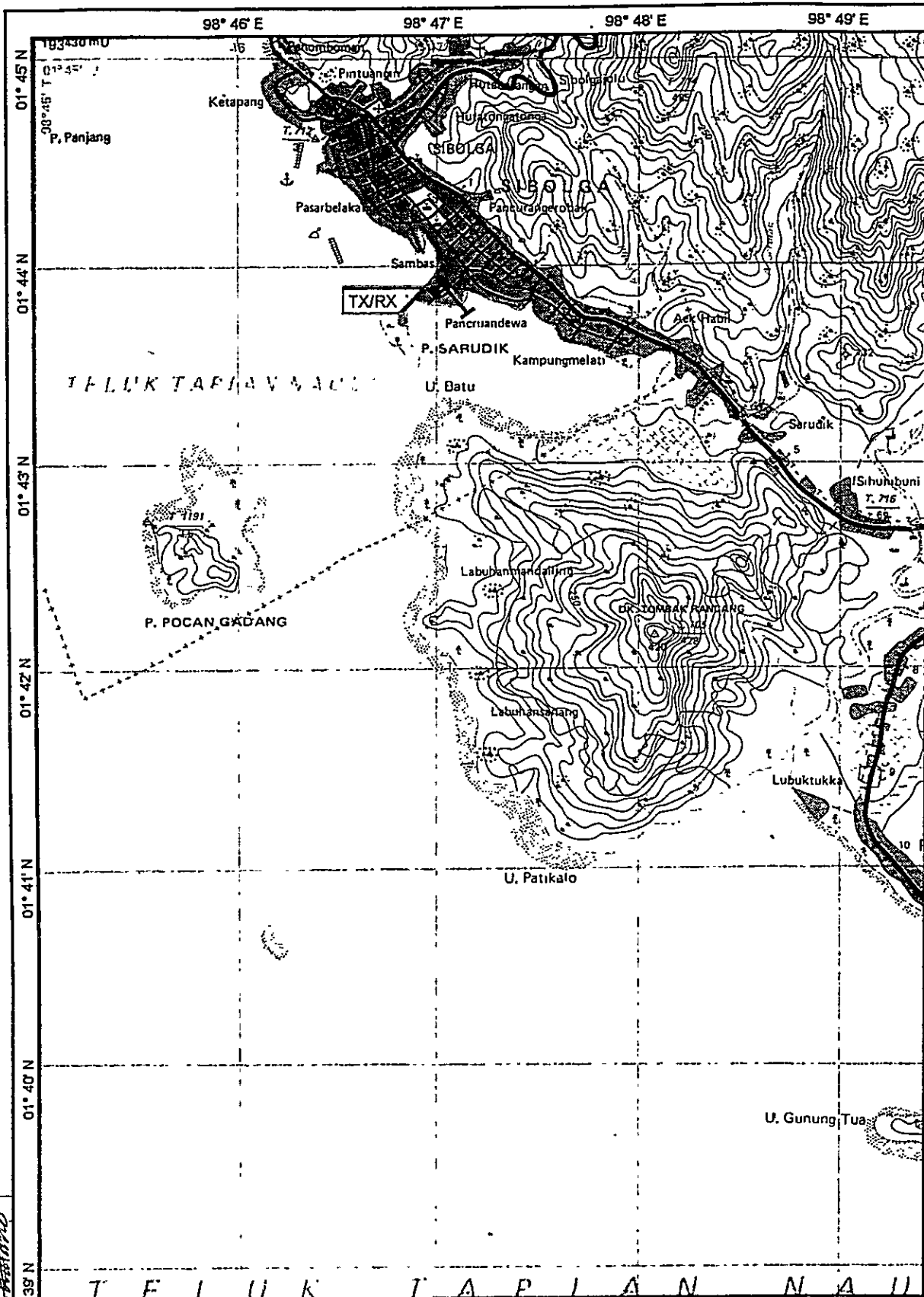
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Sibolga

SBA-021-(1/1)



Call Sign: Mobile Service : PKB3
Fix Service : 8A14

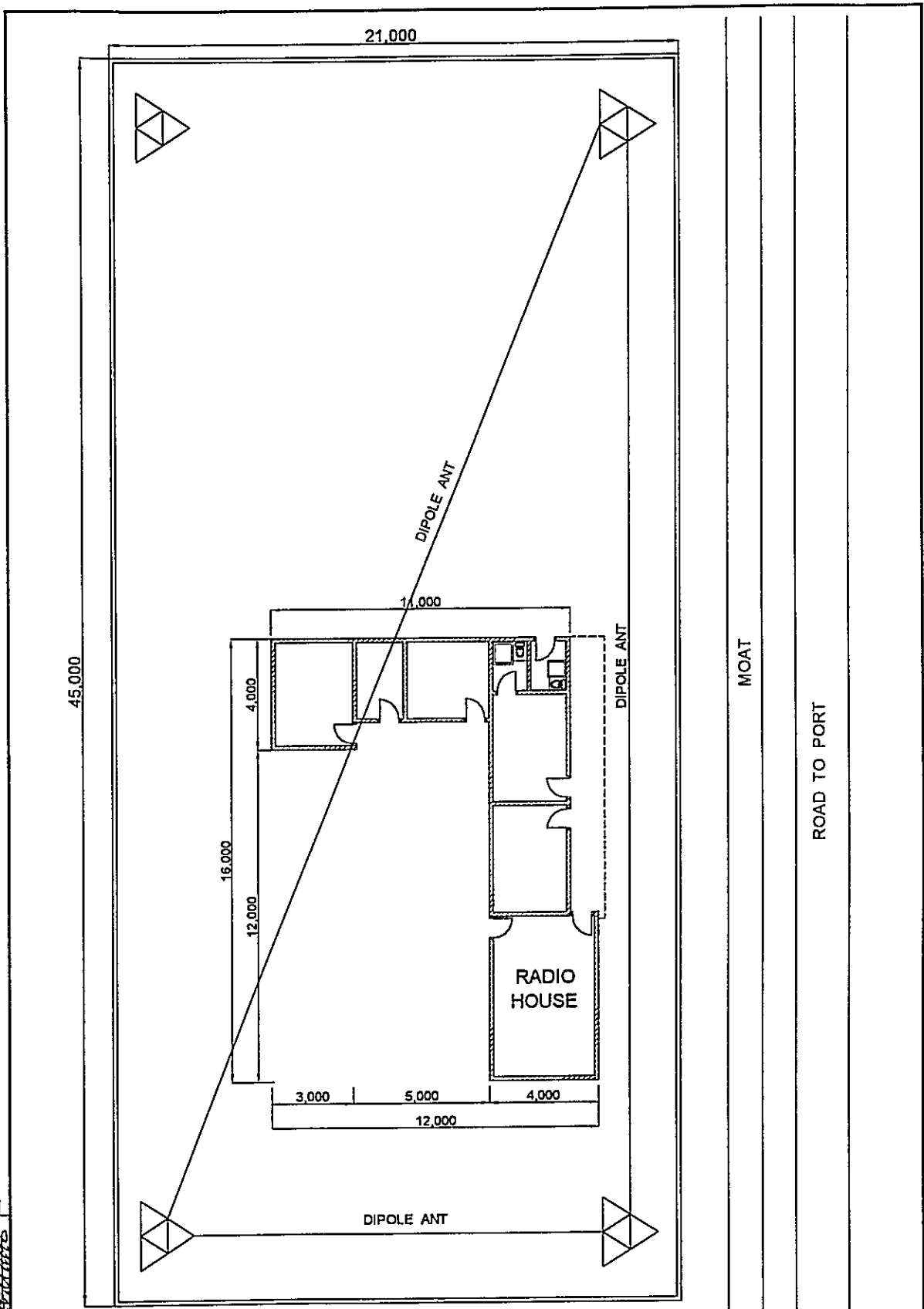
	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	Mobile Service																											
1	474,0	A1A	100																									
2	500,0	A1A	100																									
3	6 355,0	A1A	100																									
4	2 182,0	J3E	100																									
5	2 187,5	J3E	100																									
6	2 690,0	J3E	100																									
7	3 180,0	J3E	100																									
8	6 215,0	J3E	100																									
9	6 510,0	J3E	100																									
10	6 224,0	J3E	100																									
11	2 174,5	J3E	100																									
	VHF Service																											
11	Channel-13	F3E	25																									
12	Channel-14	F3E	25																									
13	Channel-16	F3E	25																									
14	Channel-20	F3E	25																									
15	Channel-70	DSC																										
	Fix Service																											
16	5 165,0	J3E	100																									
17	5 295,0	J3E	100																									
18	2 147,0	F1B	500																									
19	6 327,0	F1B	500																									
20																												
21																												
22																												
23																												



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 APPROVED BY JICA

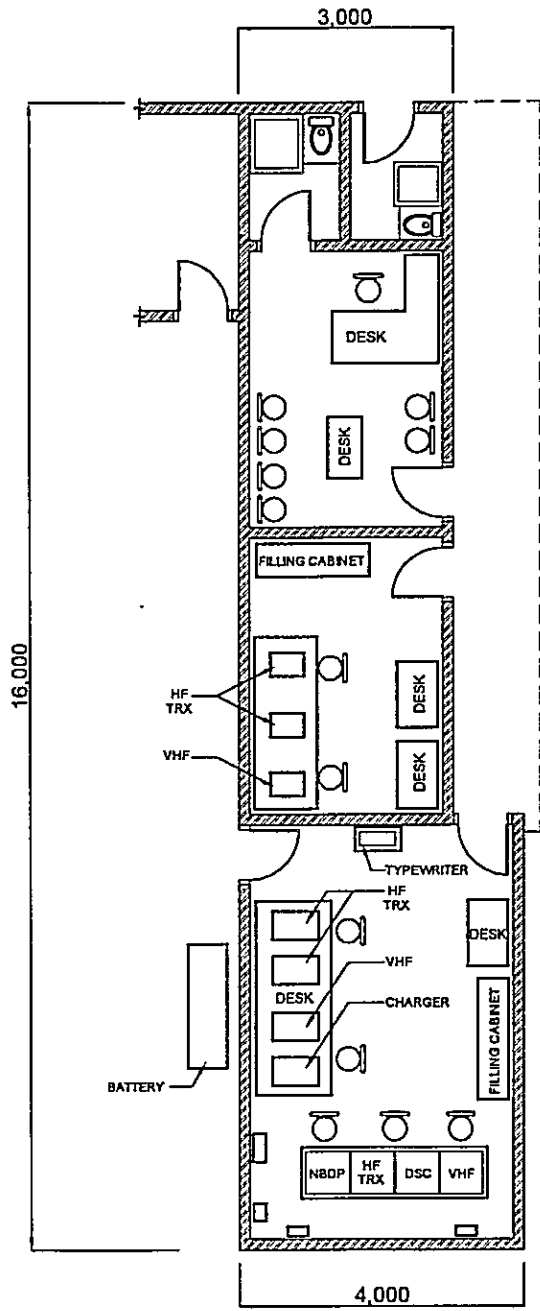

T E L U K T A P I A N N A U

DATE	DRAWING TITLE	SHEET NO.
July 02, 2001	SITE LOCATION	- 1/1
SCALE	SITE NAME	
1 : 50,000	SIBOLGA	
DIMENSION	DRAWING NO.	
Meter	S R O P - S B A - 0 2 1 - 1	
 -  PT. Aneka Asia Buana		



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[Signature]

DATE	DRAWING TITLE	SHEET NO
June 13, 2001	ANTENNA LAYOUT FOR STATION	1/1
SCALE	SITE NAME	
1:200	SIBOLGA	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, S, B, A, -, 0, 2, 1, -, 2,	
- PT. Aneka Asia Buana		

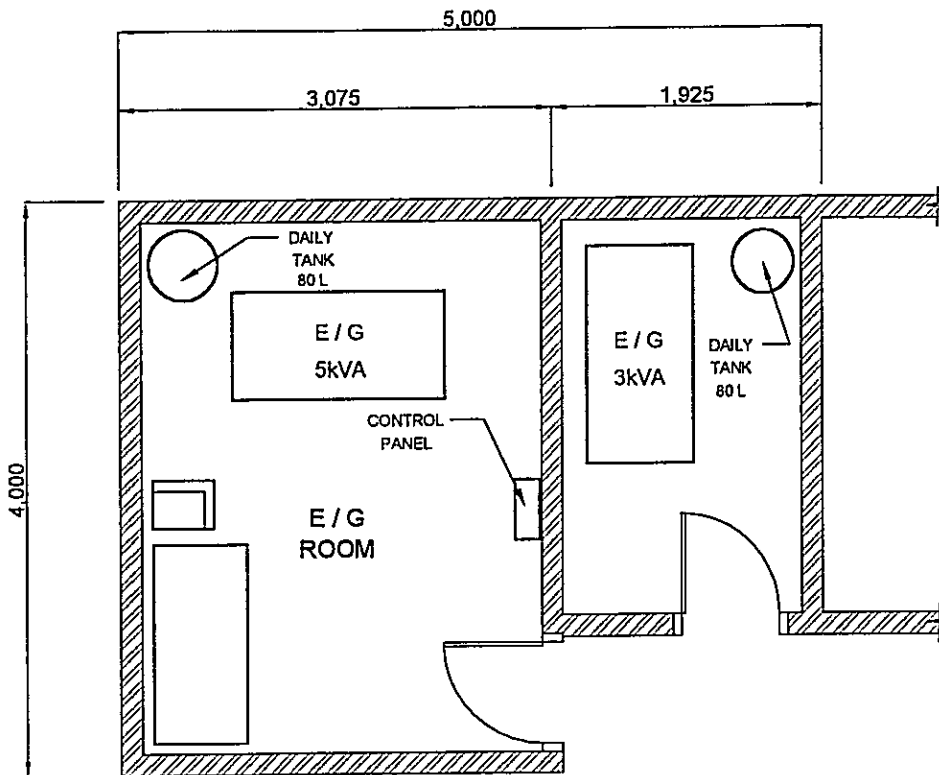


LEGEND

- DSC : DIGITAL SELECTIVE CALLING
- E/G : ENGINE GENERATOR
- HF : HIGH FREQUENCY
- NBDP : NARROW - BAND DIRECT - PRINTING
- TRX : TRANSCEIVER (ING)
- VHF : VERY HIGH FREQUENCY

APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO
June 13, 2001	EQUIPMENT FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 100	SIBOLGA	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, S, B, A, -, 0, 2, 1, -, 3,	
- PT. Aneka Asia Buana		

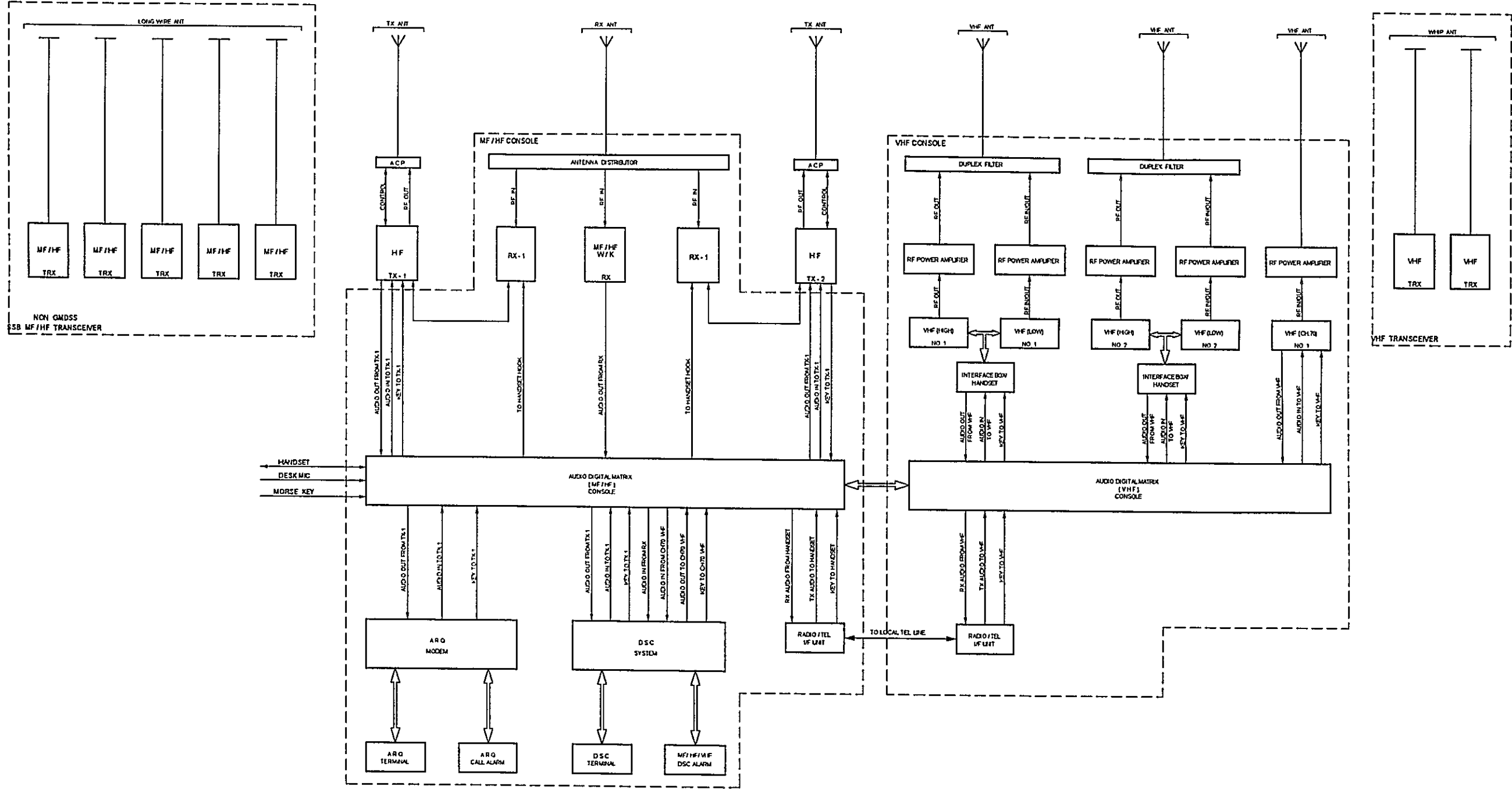


APPROVED BY: JICA
 DRAWN BY: AAB

LEGEND

- E/G : ENGINE GENERATOR
- KVA : KILO VOLT AMPERE
- L : LITER

DATE June 13, 2001	DRAWING TITLE E/G FLOOR LAYOUT	SHEET NO. 1/1
SCALE 1 : 100	SITE NAME SIBOLGA	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, S, B, A, -, 0, 2, 1, -, 4,	
- PT. Aneka Asia Buana		

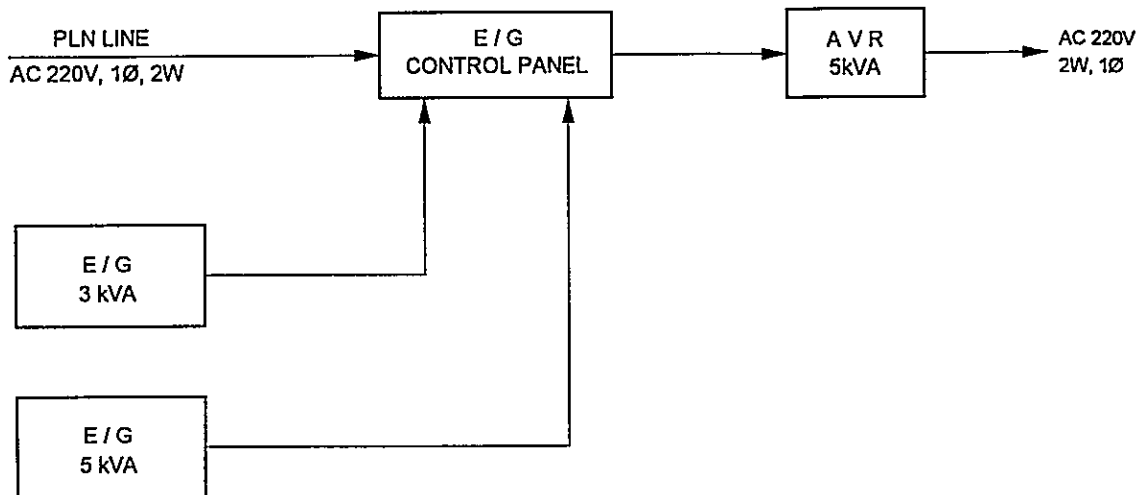


DRAWN BY AAB
 APPROVED BY MCA

LEGEND


- ACP : ANTENNA COUPLER
- ANT : ANTENNA
- DSC : DIGITAL SELECTIVE CALLING
- HF : HIGH FREQUENCY
- MF : MEDIUM FREQUENCY
- RX : RECEIVER (ING)
- TX : TRANSMITTER (ING)
- TRX : TRANCEIVER (ING)
- VHF : VERY HIGH FREQUENCY



DATE June 14, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO. 1/1
SCALE No Scale	SITE NAME SIBOLGA	
DIMENSION Millimeter	DRAWING NO S.R.O.P. - S.B.A. - 0,2,1 - 5	
- PT. Aneka Asia Buana		



LEGEND

- AC : ALTERNATING CURRENT
- AVR : AUTOMATIC VOLTAGE REGULATOR
- E/G : ENGINE GENERATOR
- KVA : KILO VOLT AMPERE
- HF : HIGH FREQUENCY
- PDB : POWER DISTRIBUTION BOARD
- V : VOLT
- W : WIRE
- Ø : PHASE

DRAWN BY AAB
 APPROVED BY JICA


DATE	DRAWING TITLE	SHEET NO
June 14, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	SIBOLGA	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, S, B, A, -, 0, 2, 1, -, 6,	
 -  PT. Aneka Asia Buana		

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

4th-A Class Coast Station Gunung Sitoli (Coast Station No. 22)

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	GUNUNG SITOLI		
	CLASS	4th-A	NO.	22

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Pelabuhan Gunung Sitoli			07° 36' 16" E	02° 16' 53" N

2. GENERAL CONDITIONS						
Moving from Jakarta		Site Access from Port		Road Traffic	Accommodation	Population
By Air	to Medan [Taking time: 2:00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel		
By Ship	to Sibolga [Taking time: 6:00 hr.]	<input checked="" type="checkbox"/> Paved	<input checked="" type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel		
By Car	to G. Sitoli [Taking time: 8:00 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 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"/> Antenna	
<input checked="" type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input type="checkbox"/> Rain Leakage	<input type="checkbox"/> Towers (Masts)	
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input checked="" type="checkbox"/> Dry Rocky	<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	M		Telephone Lines		<input checked="" type="checkbox"/> Feeder Cable Way
Land area	120.00 m ²		<input type="checkbox"/> Lines		<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	Mortar	Phase	1		<input checked="" type="checkbox"/> Power Supply System
Type of roof	Zinc	Wire	2		<input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA	0.45		<input type="checkbox"/> Operations of AVR
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	V ± %		Day tank Liter
Flooring	Mortar	Availability of power per day	24 Hours	Main tank	k Liter
Room Area (m²)		Power interruption /month		E/G Stand-by System	
Operation room	12 00	Total interpt. hours /month		Hours	<input type="checkbox"/> Single System
E / G room		Max interpt. hours at once		Hours	<input type="checkbox"/> Dual System
Remark					

4. OPERATION AND MAINTENANCE					5. PERSONNEL FORMATIONS				
Actions taken in equipment failure									
Restoration flow	Repairing				Chief	TX/RX			
Examples of major failure					Operator (skilled)	2	0		
Sufficiency of spares	Not enough				Technician (skilled)	0	0		
Records of damages			Environmental Conditions		Administrator	1			
<input type="checkbox"/> Heavy rainfall			Good	Bad					
<input type="checkbox"/> Storm			<input checked="" type="checkbox"/>	<input type="checkbox"/>	External noises	Total	4		
<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		1
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	GUNUNG SITOLI		
	CLASS	4th-A	NO.	22

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			30	1996			
1997					1992				1997			
1998					1993				1998			
1999					1994				1999			
2000					1995				2000			

7. COMMENTS	
Suggestion	Request for new additional radio equipment
Remarks	

INVENTORY

Site Name: Gunung Sitoli

GNS-022- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MFHF System							
1		MF/HF Transceiver	M - 700		ICOM	1989			Good
2		MF/HF Transceiver	FT 80	570689	Yaesu	1991			Good
1-2		VHF System							
1		VHF Transceiver	FT 20 H	36300580	Yaesu	1996			Good

OPERATION SCHEDULE (FREQUENCIES)

Call Sign : Mobile Service : PKB29
Fix Service : 8A15

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mobile Service																												
1	2 182,0	J3E	100	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
2	6.215,0	J3E	100																									
VHF Service																												
3	156 800,0	G3E	100	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
4	Channel -14	G2B	100																									
Fix Service																												
5	5,165,0	J3E	100																									
6	5 295,5	J3E	100																									
7																												
8																												
9																												
10																												
11																												
12																												
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												
21																												
22																												
23																												

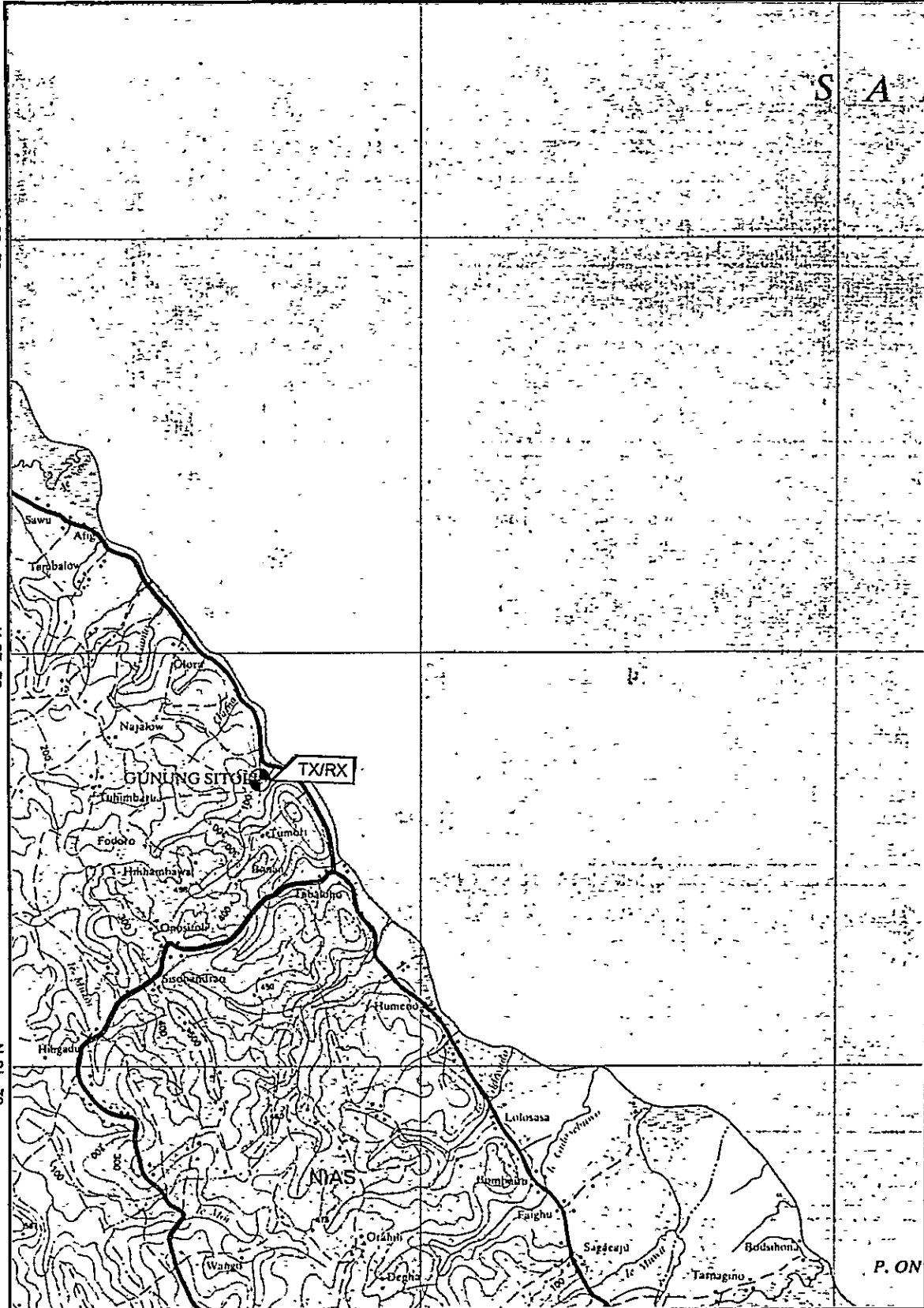
97° 40' E

97° 50' E

02° 30' N

02° 20' N

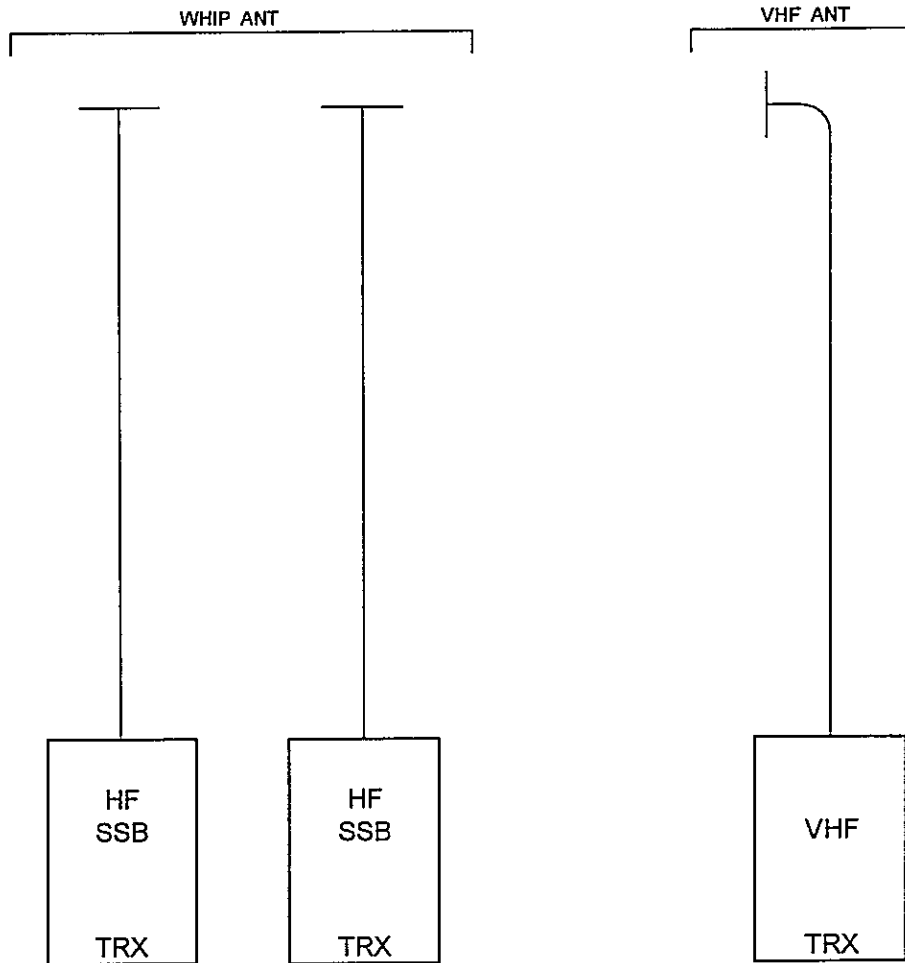
02° 10' N



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

DATE	DRAWING TITLE	SHEET NO.
July 02, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	GUNUNG SITOLI	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - G, N, S, - 0, 2, 2, - 1	
- PT. Aneka Asia Buana		



P. ON



DRAWN BY: AAB
APPROVED BY: JICA

LEGEND

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

DATE August 01, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME GUNUNG SITOLI	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, G, N, S, -, 0, 2, 2, -, 5,	
 -  PT. Aneka Asia Buana		

PLN LINE
AC 220V, 2W, 1Ø



TO RADIO
EQUIPMENT

LEGEND

AC : ALTERNATING CURRENT
V : VOLT
W : WIRE
Ø : PHASE

DRAWN BY AAB
APPROVED BY JICA
[Signature]

DATE August 01, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME GUNUNG SITOLI	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, G, N, S, -, 0, 2, 2, -, 6,	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Pulau Tello (Coast Station No. 23)

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	PULAU TELLO		
	CLASS	4th-A	NO.	23

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Pasar Pulau Tello, Batu Tulis			98° 16' 48" E	00° 03' 03" S

2. GENERAL CONDITIONS					
	Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Medan [Taking time 2.00 hr.]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	5,000
By Car	to Sibolga [Taking time 6.00 hr.]	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship	to P Tello [Taking time. 14.00 hr.]	<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 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 checked="" 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	M		Telephone Lines	<input checked="" type="checkbox"/>	<input 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	Roof-Tile	Wire	2	<input type="checkbox"/>	<input type="checkbox"/> Operations of E/G
Type of ceiling	Asbestos	kVA	0.9	<input type="checkbox"/>	<input type="checkbox"/> Operations of AVR
Type of wall	Board	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Painting	Fluctuations	V ± %	Day tank	Liter
Flooring	Tile	Availability of power per day	12 Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	Times	E/G Stand-by System	
Operation room	9.00	Total interpt. hours /month	Hours	<input type="checkbox"/>	<input type="checkbox"/> Single System
E / G room		Max interpt. hours at once	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	The trouble will be sent to Sibolga by message			Chief	1			
Examples of major failure				Operator (skilled)	1 ()		()	
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"/>	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 checked="" type="checkbox"/> Reasonable	<input 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 type="checkbox"/> Not so bad	<input checked="" 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	PULAU TELLO		
	CLASS	4th-A	NO.	23

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 utilise Port administration office, therefore we request owned building Antena condition is poor due to corrosion problem, necessary to be changed Equipment condition is poor, necessary to be changed or repaired
Remarks	

INVENTORY

Site Name: Pulau Tello

PTL-023- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF System	IC-M700	01249	ICOM	1989			Good
1		HF Transceiver	FT-80C		Yaesu	1991			Damaged
2		HF Transceiver							
2		Tower & Antenna System							
2-1		Antenna Tower & Mast							
1		20mH Antenna Pole							Good
2-1		Antenna System							
1		Dipole Antenna							Good
2-2		Antenna Matching Unit							
1		Antenna Matcher	ML-100N		ICOM	1991			Good
1		Antenna Tuner	AT-120		ICOM	1989			Good
3		Power Supply Equipment							
3-1		UPS & AVR System							
1		Power Supply 10A			VDO	1989			Damaged
2		Power Supply 30A			VEDIO	1991			Damaged
3		Battery 12V/200 AH	PS-8930	183027	GS	1996			Good

STATUS OF TROUBLES

SITE NAME : PULAU TELLO

PTL-23-(1/1)

Item / Equipment	Antenna Tower / -	
Manufacturer	-	
Manufacturer in year	-	
Defective panel / unit	-	
Details of Trouble Status	Cause due to:	Urgency of Repair
	<input type="checkbox"/> Aging	
	<input type="checkbox"/> Lightning	
	<input checked="" type="checkbox"/> Corrosion	
	<input 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>		
Not completed by technician, if there is trouble on equipment, it will be sent to Sibolga Sub District Navigation		

OPERATION SCHEDULE (FREQUENCIES)

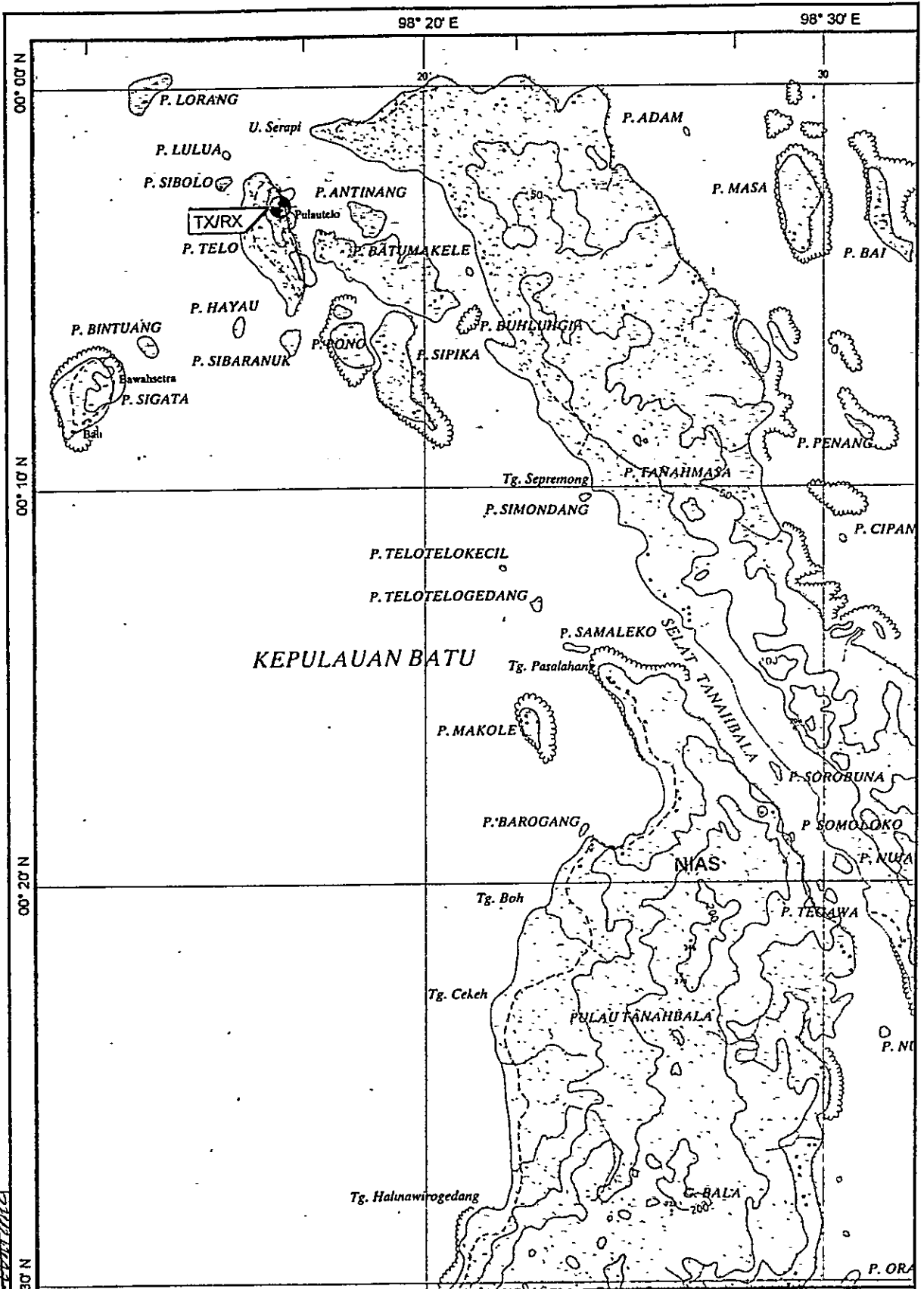
Site Name: Pulau Tello

PTL-023-(1/1)

Call Sign : Mobile Service : PKB40

Fix Service :

FREQUENCY (KHz)	EMISSION	POWER (W)	UTC																								REMARK
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mobile Service																											
1	J3E	150																									
2	J3E	150																									
Fix Service																											
3	J3E	150																									
4	J3E	150																									
5																											
6																											
7																											
8																											
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23																											
24																											
25																											



KEPULAUAN BATU

NIAS

PULAU TANAHBALA

DRAWN BY AAB

APPROVED BY JICA

00° 30' N

00° 20' N

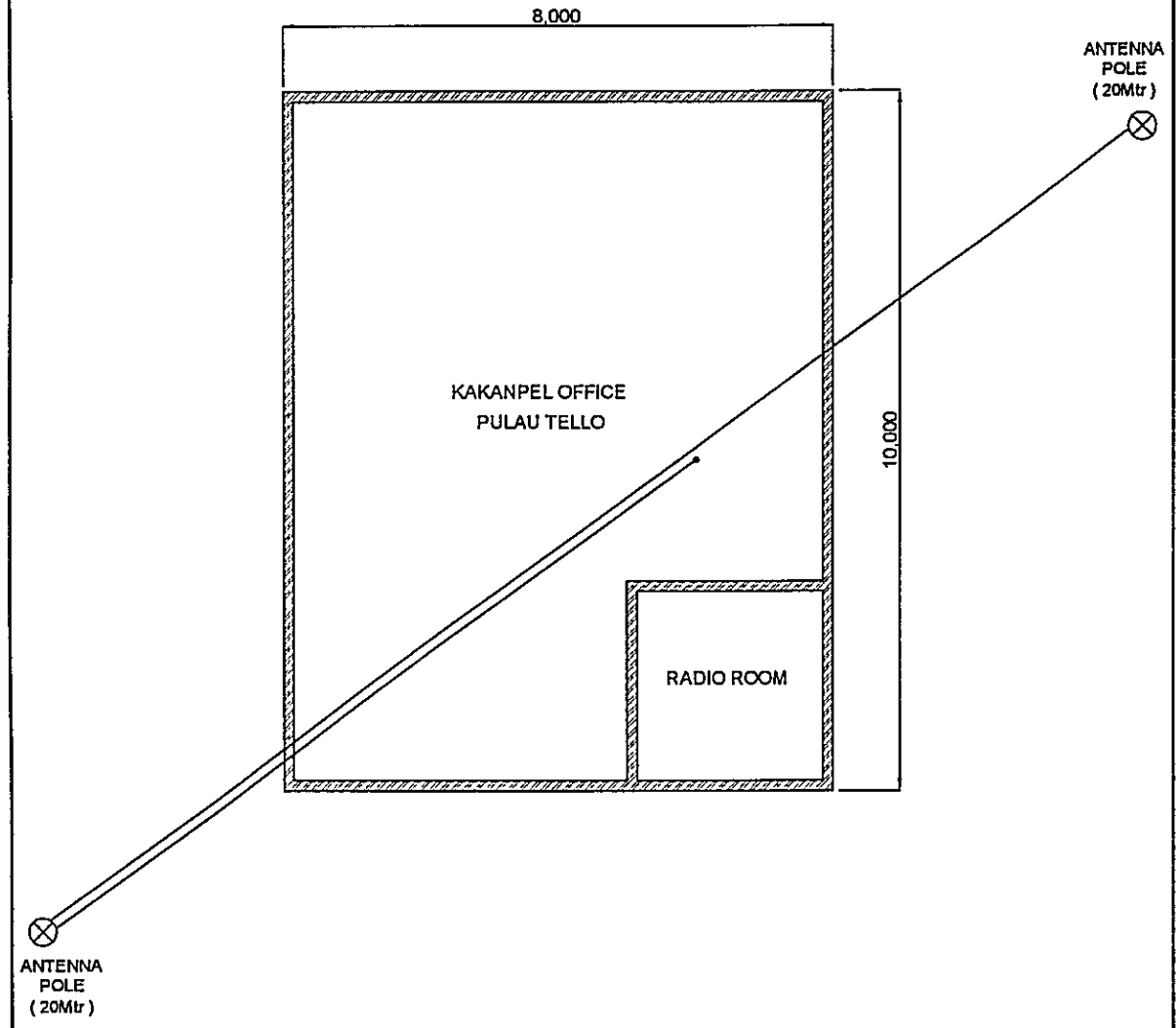
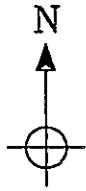
00° 10' N

00° 00' N

98° 20' E

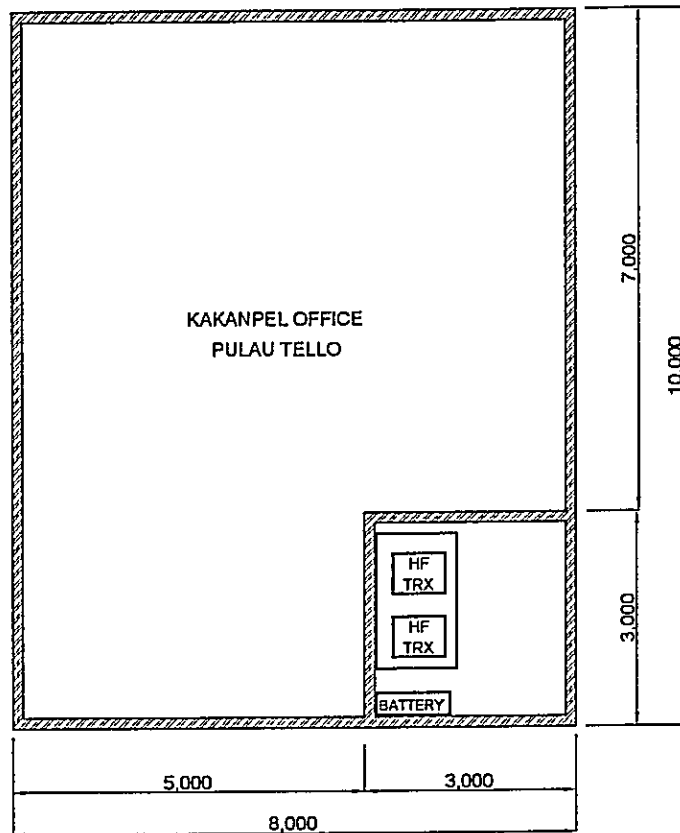
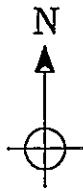
98° 30' E

DATE	July 02, 2001	DRAWING TITLE	SITE LOCATION	SHEET NO.	1 / 1
SCALE	1 : 250,000	SITE NAME	PULAU TELLO		
DIMENSION	Meter	DRAWING NO	S, R, O, P - P, T, L - 0, 2, 3 - 1		



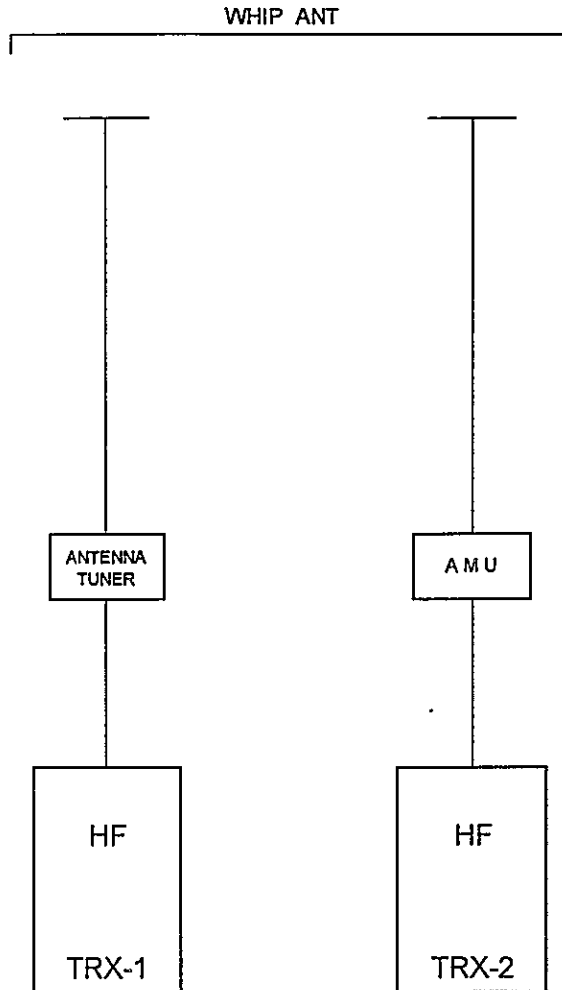
APPROVED BY JICA
DRAWN BY AAB

DATE June 14, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1 / 1
SCALE 1 : 100	SITE NAME PULAU TELLO	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, P, T, L, -, 0, 2, 3, -, 2,	
JICA - PT. Aneka Asia Buana		



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

DATE	DRAWING TITLE	SHEET NO
June 14, 2001	EQUIPMENT FLOOR LAYOUT	1/1
SCALE	SITE NAME	
1 : 100	PULAU TELLO	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, P, T, L, -, 0, 2, 3, -, 3,	
- PT. Aneka Asia Buana		

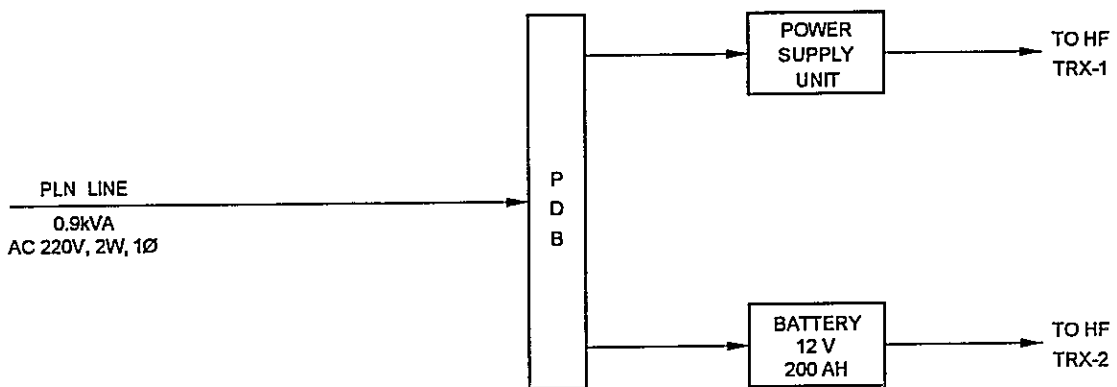


DRAWN BY ABB
 APPROVED BY JICA

LEGEND

- ANT . ANTENNA
- AMU . ANTENNA MATCHING UNIT
- HF . HIGH FREQUENCY
- TRX . TRANSCEIVER (ING)

DATE	DRAWING TITLE	SHEET NO
July 27, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	PULAU TELLO	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, - P, T, L, - 0, 2, 3, - 5, 1	
- PT. Aneka Asia Buana		



LEGEND

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

DRAWN BY AAB
 APPROVED BY JICA

DATE July 27, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME PULAU TELLO	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - P, T, L, - 0, 2, 3, - 6,	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Lahewa (Coast Station No. 24)

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	LAHEWA		
	CLASS	4th-A	NO.	24

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Bowo No 01, Lahewa			97° 09' 20" E	01° 24' 00" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Medan [Taking time: 2.00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	37,000
By Car	to Sibolga [Taking time 6.00 hr.]	<input type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship	to Lahewa [Taking time. 8.00 hr.]	<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"/> Flood	Yes No
<input type="checkbox"/> Slope	<input checked="" type="checkbox"/> Ordinary	<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"/> 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	15.00 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		Voltage	220 V	Good Bad
Structure		Phase	1	<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System
Type of roof		Wire	2	<input type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling		kVA	0.45	<input type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall		Quality of PLN source		Capacity of fuel for engine
Wall finish		Fluctuations	V ± %	Day tank
Flooring		Availability of power per day	Hours	Liter
Room Area (m ²)		Power interruption /month	10 Times	Main tank
Operation room		Total interpt. hours /month	25 Hours	k Liter
E / G room		Max interpt. hours at once	5 Hours	E/G Stand-by System
Remark				<input type="checkbox"/> Single System
				<input type="checkbox"/> Dual System

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure						TX/RX		
Restoration flow	Sent to Sibolga Sub District Navigation Office			Chief			1	
Examples of major failure	By lightening and other			Operator (skilled)			1 (1) ()	
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 type="checkbox"/>	<input checked="" type="checkbox"/>	External noises	Total		2	
<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 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 type="checkbox"/> Not so bad	<input checked="" 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	LAHEWA		
	CLASS	4th-A	NO.	24

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	Necessary to build Lahewa Coast Station Office, and for the moment utilize Lahewa Port Office Request for a signal lamp of Lahewa Port Request for Traffic Light at the entrance of Lahewa Port
Remarks	

INVENTORY

Site Name: Lahewa

LHW-024- (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	FT 80 C	1G570668	Yaesu	1991			Good
2		Tower & Antenna System							
2-1		Antenna Matching Unit							
1		Antenna Matcher	MP 100 L	04483	ICOM				Good
3		Power Supply Equipment							
3-1		UPS & AVR System							
1		Power Supply							
2		Battery Charger							
3		Battery Charger							

STATUS OF TROUBLES

SITE NAME : LAHEWA

LHW-24-(1/1)

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

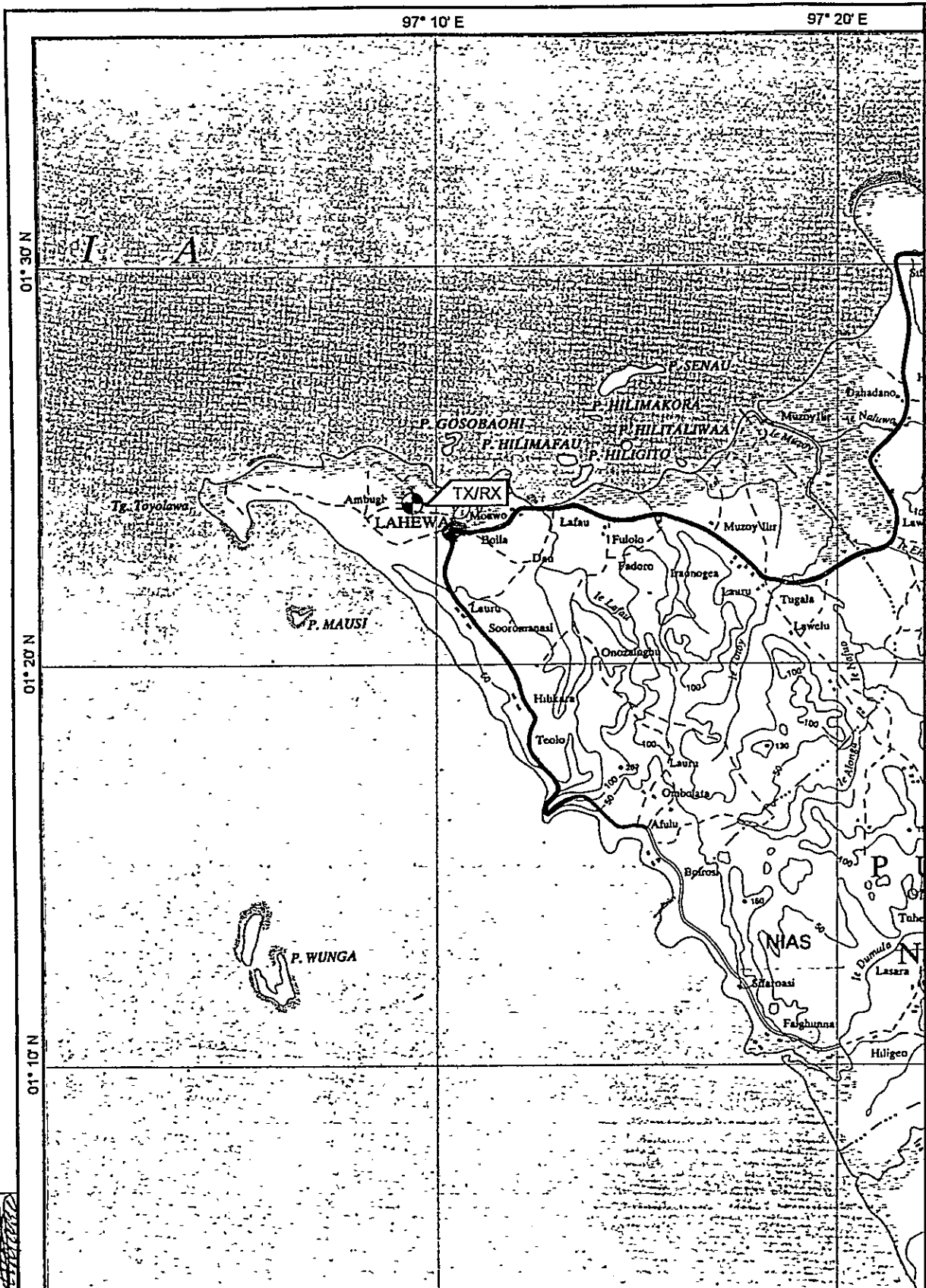
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Lahewa



LHW-024-(1/1)

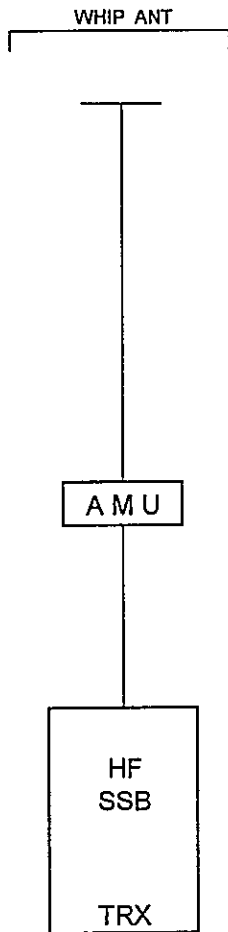
Call Sign : Mobile Service
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	Mobile Service 2182,0	J3E	100																									
2	3180,0	J3E	100																									
3																												
4																												
5																												
6																												
7																												
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27																												



APPROVED BY JICA: 
 DRAWN BY AAB: 

DATE	DRAWING TITLE	SHEET NO.
July 02, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 250,000	LAHEWA	
DIMENSION	DRAWING NO.	
Meter	S R O P - L H W - 0 2 4 - 1	
 -  PT. Aneka Asia Buana		

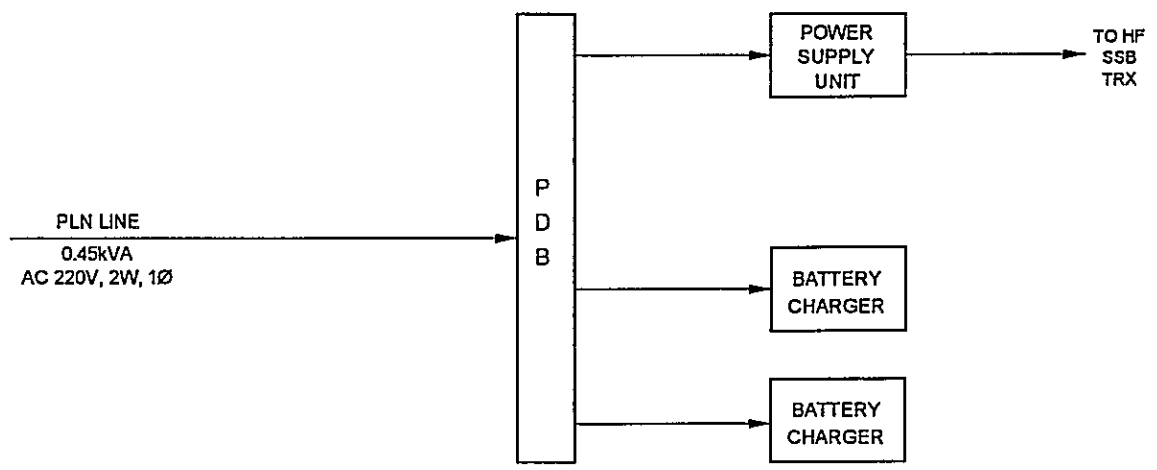


DRAWN BY AAB
 APPROVED BY JICA

LEGEND

- ANT . ANTENNA
- AMU : ANTENNA MATCHING UNIT
- HF . HIGH FREQUENCY
- TRX . TRANSCIVER (ING)

DATE August 01, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME LAHEWA	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, L, H, W, -, 0, 2, 4, -, 5,	
- PT. Aneka Asia Buana		



LEGEND

- AC : ALTERNATING CURRENT
- HF : HIGH FREQUENCY
- kVA : KILO VOLT AMPERE
- PDB : POWER DISTRIBUTION BOARD
- TRX : TRANSCEIVER (ING)
- V : VOLT
- W : WIRE
- Ø : PHASE

APPROVED BY JICA
 DRAWN BY JICA

DATE	DRAWING TITLE	SHEET NO
August 01, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	LAHEWA	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - L, H, W, - 0, 2, 4, - 6,	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Teluk Dalam (Coast Station No. 25)

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	TELUK DALAM		
	CLASS	4th-A	NO.	25

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Yos Sudarso No 4	0630-21326	0630-21012	97° 49' 05" E	00° 33' 52" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Medan [Taking time 2.00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	500,000
By Air	to Nias [Taking time 1.00 hr.]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Car	to T Dalam [Taking time 4.00 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 checked="" 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"/> Ground Subsidence
<input type="checkbox"/> Valley	<input checked="" type="checkbox"/> Sandy		
Altitude	2.00 M	Telephone Lines	<input type="checkbox"/> Feeder Cable Way
Land area	m ²	<input checked="" type="checkbox"/> 2 Lines	<input type="checkbox"/> City water

3.2 Building Conditions	3.3 Power Source		
Constructions	PLN Source	E/G	Existing Power Conditions
Num of story	Voltage 220 V	V	Good Bad
Structure	Phase 1		<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System
Type of roof	Wire 2		<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of E/G
Type of ceiling	kVA		<input type="checkbox"/> <input checked="" type="checkbox"/> Operations of AVR
Type of wall	Quality of PLN source		Capacity of fuel for engine
Wall finish	Fluctuations	220 V ± 20 %	Day tank Liter
Flooring	Availability of power per day	24 Hours	Main tank k Liter
Room Area (m ²)	Power interruption /month	20 Times	E/G Stand-by System
Operation room	Total interpt. hours /month	15 Hours	<input checked="" type="checkbox"/> Single System
E / G room	Max interpt hours at once	10 Hours	<input type="checkbox"/> Dual System
Remark	E/G Damage		

4. OPERATION AND MAINTENANCE	5. PERSONNEL FORMATIONS
Actions taken in equipment failure	TX/RX
Restoration flow	Repaired in Sibolga Sub District Navigation
Examples of major failure	By Lightning/Error
Sufficiency of spares	
Records of damages	Environmental Conditions
<input type="checkbox"/> Heavy rainfall	Good Bad
<input type="checkbox"/> Storm	<input type="checkbox"/> <input checked="" type="checkbox"/> External noises
<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
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 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	TELUK DALAM		
	CLASS	4th-A	NO	25

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	No replacement for HF and VHF radio equipment which has been stolen Coast Station utilise Port office Teluk Dalam Request to have owned buiding.
Remarks	

INVENTORY

Site Name: Teluk Dalam

TDL-025- (1 / 1)

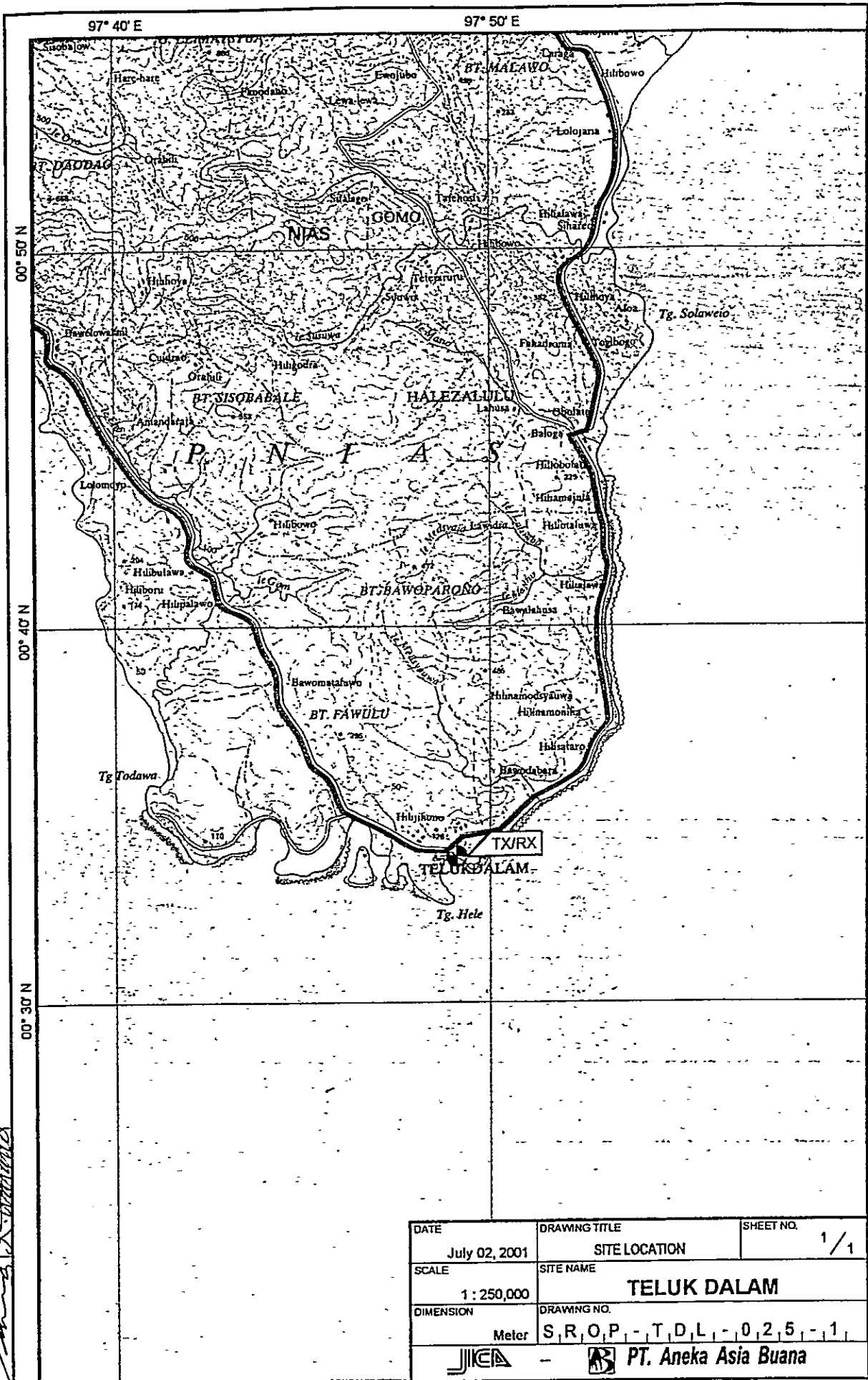
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		MF/HF System							
1		HF Transceiver	FT 80 C	1162851	Yaesu				Stolen
2		HF Transceiver	M 700	01265	ICOM				Remove
1-2		VHF System							
1		VHF Transceiver	FN 400	247646	Furuno				Stolen
2		Tower & Antenna System							
2-1		Tower & Mast							
1		Antenna Pole (x2)							Good
2-2		Antenna System							
1		Antenna (x1)							Good
2-3		Antenna Switch							Good
1		Antenna Tuner	AT 120		ICOM				
3		Power Supply Equipment							
3-1		UPS							
1		DC Power Supply	PS 8930	183027					Damaged
2		Battery Charger	Coin						Damaged
3		Louds Speaker	SC-AD		AIWA				Damaged
3-2		Engine Generator							
1		Generator	RM 65	03436	Mitsubishi				Damaged

STATUS OF TROUBLES

SITE NAME : TELUK DALAM

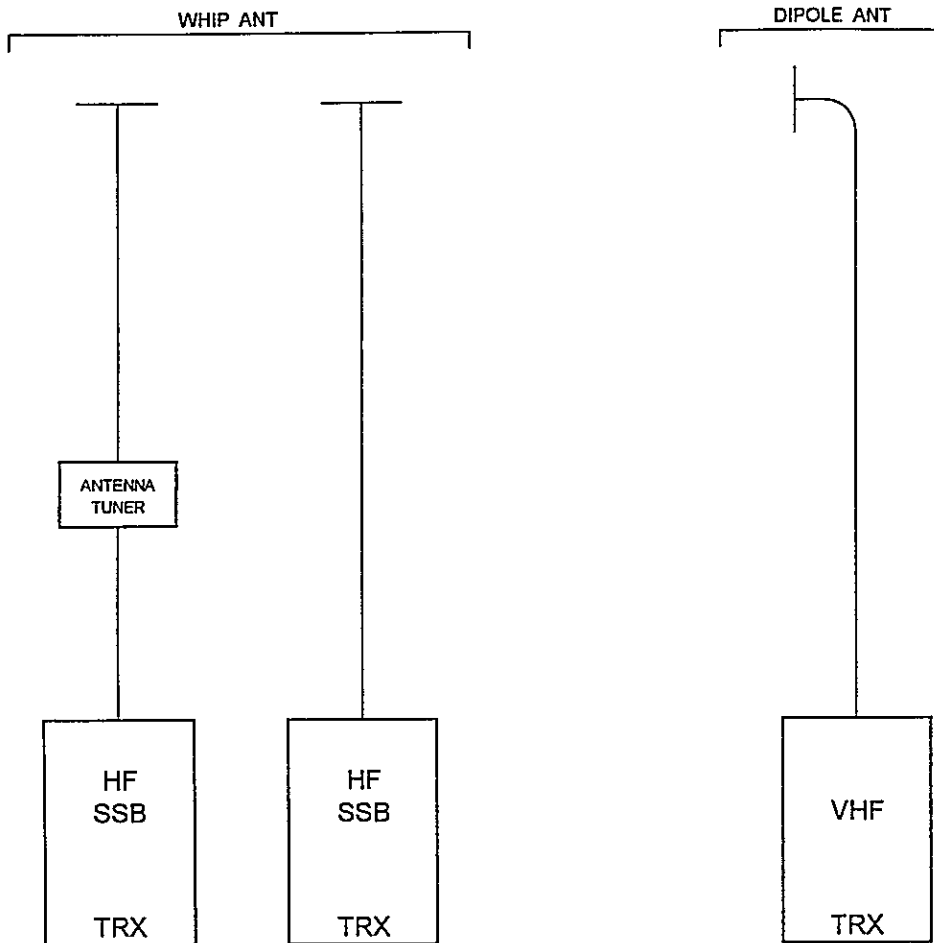
TDL-25-(1/1)

Item / Equipment	HF/VHF Equipment / -	
Manufacturer	Yaesu/Furuno	
Manufacturer in year	-	
Defective panel / unit	-	
Details of Trouble Status	Cause doe to.	Urgency of Repair
	<input type="checkbox"/> Aging	
	<input type="checkbox"/> Lightning	
	<input type="checkbox"/> Corrosion	
	<input type="checkbox"/> Lack of Spares	
	<input checked="" type="checkbox"/> Others	
Repairing to be:		
<input 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>		
Request for new All band VHF Radio equipment		



APPROVED BY JICA
 DRAWN BY AAB



DATE	DRAWING TITLE	SHEET NO.
July 02, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 250,000	TELUK DALAM	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P - T, D, L - 0, 2, 5 - 1	
- PT. Aneka Asia Buana		



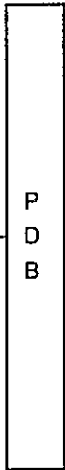
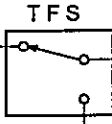
LEGEND

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

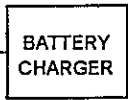
APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO
August 01, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	TELUK DALAM	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, T D L, - . 0 2, 5, - . 5, .	
  PT. Aneka Asia Buana		

PLN LINE
AC 220V, 2W, 1Ø



TO RADIO EQUIPMENT



E/G

LEGEND

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

DRAWN BY AAB
APPROVED BY JICA

DATE	DRAWING TITLE	SHEET NO
August 01, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	TELUK DALAM	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, T, D, L, -, 0, 2, 5, -, 6,	
- PT. Aneka Asia Buana		

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

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

**1ST CLASS DISTRICT NAVIGATION AREA (4)
DUMAI**

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

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

1st Class District Navigation Area (4) Dumai

Table of Content

DISNAV	4	Dumai	1st Class
KPLP	4	Dumai	
SROP	26	Dumai	1st Class
	27	Tembilahan	4th-A Class
	28	Bagan Siapi-Api	4th-A Class
	29	Panipahan	4th-A Class
	30	Bengkalis	4th-A Class
	31	Selat Panjang	4th-A Class
	32	Pekan Baru	4th-A Class
	33	Rengat	4th-A Class
	34	Pulau Kijang	4th-B Class
	35	Kuala Enok	4th-B Class
	36	Sungai Guntung	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-4)
Dumai**

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	DUMAI		
	CLASS	1st	NO.	4

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
Jl. Datuk Laksamana, Dumai 28814	0765-31228	0765-33205	101° 27' 20" E	01° 41' 10" N

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to PK. Baru [Taking time 2.00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	180,000
By Car to Dumai [Taking time 4.00 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 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 checked="" type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input checked="" type="checkbox"/> Antenna
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input checked="" type="checkbox"/> Towers (Masts)
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input type="checkbox"/> Ground Subsidence	<input type="checkbox"/> Grounding system
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy		<input checked="" type="checkbox"/> Lightning system
Altitude	m	Telephone Lines	<input type="checkbox"/> Feeder Cable Way
Land area	3,500 m ²	<input checked="" type="checkbox"/> 2 Lines	<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	V
Structure	Concrete	Phase	1	Good Bad
Type of roof	Asbestos	Wire	2	<input checked="" type="checkbox"/> Power Supply System
Type of ceiling	Triplex	kVA		<input type="checkbox"/> Operations of E/G
Type of wall	Brick	Quality of PLN source		<input type="checkbox"/> Operations of AVR
Wall finish	Mortar	Fluctuations	V ± %	Capacity of fuel for engine
Flooring	Concrete	Availability of power per day	24 Hours	Day tank
Room Area (m ²)		Power interruption /month	5 Times	Liter
Operation room	1,000	Total interpt. hours /month	12 Hours	Main tank
E / G room		Max. interpt. hours at once	6 Hours	k Liter
Remark				

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS					
Actions taken in equipment failure									
Restoration flow	Repairment			Chief					
Examples of major failure	Low spout			Operator (skilled) ()					
Sufficiency of spares	Not available			Technician (skilled) ()					
Records of damages		Environmental Conditions			Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad	Total					
<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 Statures				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 checked="" type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input type="checkbox"/> Not enough						
5 Number of Technician	<input checked="" type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input 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 checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable						

SUMMARY OF DISNAV	SITE	DUMAI		
	CLASS	1st	NO.	4

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

7. COMMENTS	
Suggestion	SSB Transceiver only used for communications between beckon Tower- other beckon Tower in the area of Dumai District navigation.
Remarks	

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

**ADPEL/KPLP Office (Disnav Area - 4)
Dumai**

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	DUMAI		
	CLASS	NO.	IV	

1. LOCATION				
Address	Tel.	Fax	Longitude	Latitude
			101° 27' 20" E	01° 41' 10" N

2. GENERAL CONDITIONS				
Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air to P Baru [Taking time 2:00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	180,000
By Car to Dumai [Taking time 4:00 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 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"/> Limestone	Yes No	
<input type="checkbox"/> Slope	<input checked="" type="checkbox"/> Ordinary	<input type="checkbox"/> Gravel	<input checked="" type="checkbox"/> Antenna	
<input type="checkbox"/> Hill-top	<input type="checkbox"/> Swampy	<input type="checkbox"/> Rocky	<input checked="" type="checkbox"/> Towers (Masts)	
<input type="checkbox"/> Basin	<input type="checkbox"/> Clay	<input type="checkbox"/> Ground Subsidence	<input checked="" type="checkbox"/> Grounding system	
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy		<input type="checkbox"/> Lightning system	
Altitude	25 m	Telephone Lines	<input type="checkbox"/> Feeder Cable Way	
Land area	m ²	<input checked="" type="checkbox"/> 2 Lines	<input type="checkbox"/> City water	

3.2 Building Conditions		3.3 Power Source		
Constructions		PLN Source	E/G	Existing Power Conditions
Num of story		Voltage 220 V	V	Good Bad
Structure		Phase 1		<input type="checkbox"/> <input checked="" type="checkbox"/> Power Supply System
Type of roof		Wire 2		<input type="checkbox"/> <input type="checkbox"/> Operations of E/G
Type of ceiling		kVA 3		<input type="checkbox"/> <input type="checkbox"/> Operations of AVR
Type of wall		Quality of PLN source		Capacity of fuel for engine
Wall finish		Fluctuations	V ± %	Day tank Liter
Flooring		Availability of power per day	24 Hours	Main tank k Liter
Room Area (m ²)		Power interruption /month	8 Times	E/G Stand-by System
Operation room		Total interpt. hours /month	12 Hours	<input type="checkbox"/> Single System
E / G room		Max. interpt hours at once	6 Hours	<input type="checkbox"/> Dual System
Remark	All Radio equipment have been removed to Coast Station			

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure								
Restoration flow	All of the equipment damaged and robbed			Chief	1			
Examples of major failure				Operator (skilled)	10 ()			
Sufficiency of spares				Technician (skilled)	5 ()			
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 16			
<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 type="checkbox"/> Insufficient	Course	Class	Location	Period	Trainee
2 Spares	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input 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 ADPEL / KPLP	SITE	DUMAI		
	CLASS		NO.	IV

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	During the operation of communication facility (SARCOM) , - Communication with Ship decrease - Integrated SAR Communication not yet started on special SAR Frequency. All of the equipment has been damaged and robbed except equipment for TX and RX, but it does not function because not complete anymore
Remarks	

INVENTORY

Site Name: Adpel-KpIp Dumai

KPLP-DUM-IV-(1 / 3)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		DRCS (Subscriber Station Eqpt)							
1		Type-II Radio and Control Bay	JUL 105.5	1235-1	JRC	1989	SAR Project		Damaged
2		Type-II Additional Bay	NUL-149		JRC	1989	SAR Project		Good
3		Standard Accessories	6ZPND00115		JRC	1989	SAR Project		Not used
4		Consumable Spares	6ZXND01912		JRC	1989	SAR Project		Not used
1-2		Operator Console/Desk/Rack							
1-2-1		HF TG/TP Console							
1		TX Telecontroller	NCH-300P		JRC	1989	SAR Project		Good
1-2-2		Search & Monitor Console							
1		SAR Console-II	NCA-682C	BP-91903	JRC	1989	SAR Project		Damaged
2		Allwave Receiver	NRD-93		JRC	1989	SAR Project		Good
3		Dialing Unit	NQU-13A/A4		JRC	1989	SAR Project		Damaged
4		Digital Clock	NKH-17		JRC	1989	SAR Project		Damaged
5		2182KHz/A Monitor	CCN-181		JRC	1989	SAR Project		Good
6		Telephone Device	NQW-143		JRC	1989	SAR Project		Good
1-2-3		DSC Console							
1		RCRx							
2		RX Telecontroller	NCG-95		JRC	1989	SAR Project		Damaged
3		Accessories			JRC	1989	SAR Project		Not used
4		Spare Parts			JRC	1989	SAR Project		Not used
		Spot Scanning Unit	NDH-93		JRC	1989	SAR Project		Good
1-2-4		DSC Equipment							
1		DSC Equipment	NCT-60G		JRC	1989	SAR Project		Damaged
2		Spare Part	6ZXAF00078		JRC	1989	SAR Project		Not used
3		Spare Part (for NQU-13)			JRC	1989	SAR Project		Not used
4		Accessories			JRC	1989	SAR Project		Not used
5		Spare Part (for NRD-93)	NCA-682C-ACC 6ZXJD-51049		JRC	1989	SAR Project		Damaged

INVENTORY

Site Name: Adpel-Kplp Dumai

KPLP-DUM-IV-(2 / 3)

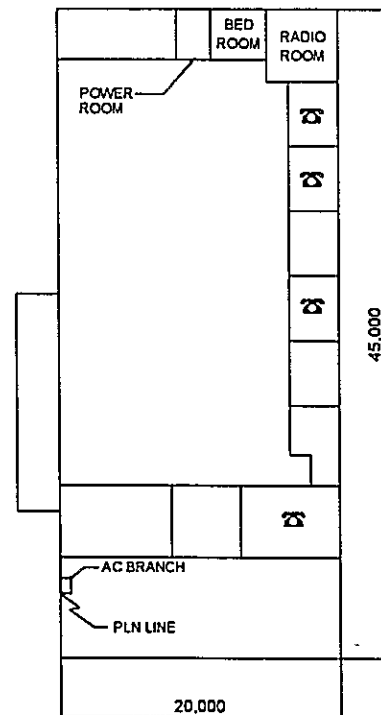
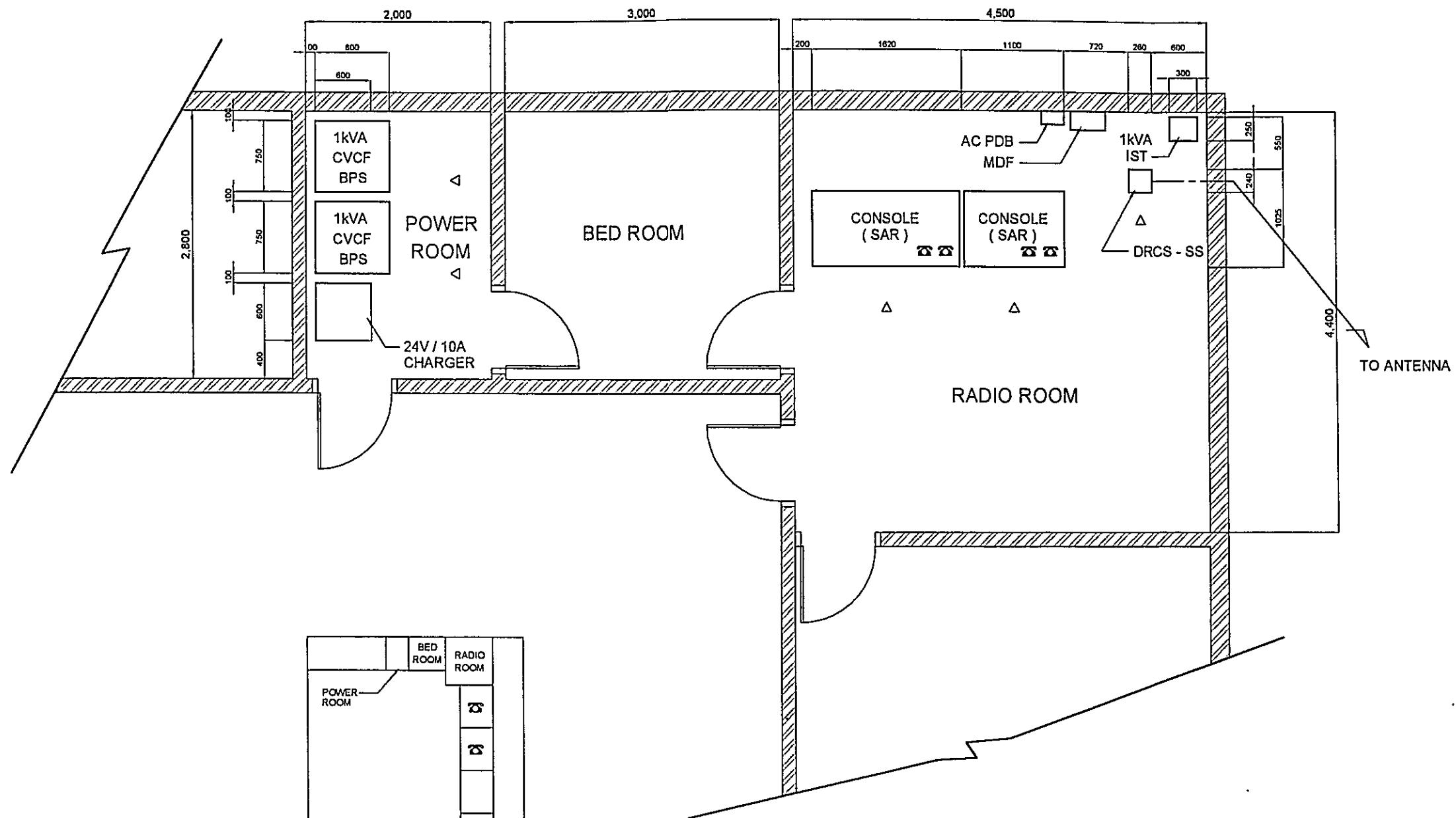
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
6		Accessories (for NDH-93)			JRC	1989	SAR Project		Not used
7		Spare Part (for NQP-21)			JRC	1989	SAR Project		Not used
8		Spare Part (for NCH-300P)			JRC	1989	SAR Project		Not used
9		Accessories (for NCH-300P)			JRC	1989	SAR Project		Not used
1-2-5		NBDP Console			JRC	1989	SAR Project		Damaged
1		Signal Controller	NQP-21		JRC	1989	SAR Project		Good
2		Jack Panel	NQC-497A		JRC	1989	SAR Project		Good
3		RF Jack Panel	NQE-584C		JRC	1989	SAR Project		Good
4		Interface Unit	CMH-913		JRC	1989	SAR Project		Damaged
5		Junction Box	NQD-1466		JRC	1989	SAR Project		Good
6		Power Supply	EWS 15-12		JRC	1989	SAR Project		Good
7		Power Supply	NBK-31D		JRC	1989	SAR Project		Good
8		Speaker Panel	NVA-64		JRC	1989	SAR Project		Good
9		Analog Clock	HCED-10054		JRC	1989	SAR Project		Good
1-3		VHF System			JRC	1995	F-TA-193, PH3		Good
1		Main Distribution Frame	NQE-40A						
2		Tower & Antenna System							
2-1		Antenna System							
		RX Antenna							
1		Element	WA-13		JRC	1989	SAR Project		Good
2		Base Bracket			JRC	1989	SAR Project		Good
3		2GHZ 1,2 MO Grid Parabolic	KP4F-23		JRC	1989	SAR Project		Good
4		Antenna Tower 41M X 1 M	3-45M						
2-2		Antenna Selector							
1		Antenna Coupler	CB-011/1		JRC	1995	F-TA-193: PH3		Good

INVENTORY

Site Name: Adpel-Kplp Dumai

KPLP-DUM-IV-(3 / 3)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		Power Supply Equipment							
3-1		Power Distribution Board							
1		AC PDB			JRC	1989	SAR Project		Good
3-2		Back-up Power Supply Type-2							
1		IKVA CVCFF	EZED00020	167072	JRC	1989	SAR Project		Damaged
2		Spare Parts			JRC	1989	SAR Project		Not used
3		Accessories			JRC	1989	SAR Project		Not used
4		Valve Regulated Scale Battery	HSE-40-12		JRC	1989	SAR Project		Good
5		Battery Accessories			JRC	1989	SAR Project		Not used
3-3		Isolation Transformer							
1		IKVA Isolation Transformer	TI-220/220-1	1944	JRC	1989	SAR Project		Good
2		Accessories for Isolation Trans.			JRC	1989	SAR Project		Not used
3-4		Step-Up Transformer							
1		Tools For HF			JRC	1989	SAR Project		Not used
2		Maintenance Tools for HF	ZPED-2		JRC	1989	SAR Project		Damaged
		Multimeter	AX-313TR						
3-5		UPS & AVR System							
1		Charger Rectifier (24V/10A)	NBB-31-410Z	S-6494	JRC	1989	SAR Project		Good
2		Lead-Accid Battery (30Ah, 13 Cells)	CS-30E		JRC	1989	SAR Project		Damaged
3		Battery Accessories			JRC	1989	SAR Project		Not used
4		Spare Part for Charger Rectifier			JRC	1989	SAR Project		Not used
4		Others							
		Digital Clock	NKH-17		JRC	1989	SAR Project		Good
1		TP (Irene Free Hello) 10 Units			JRC	1985	SAR Project		Damaged
2		Air Conditioner			SANYO		SAR Project		Damaged

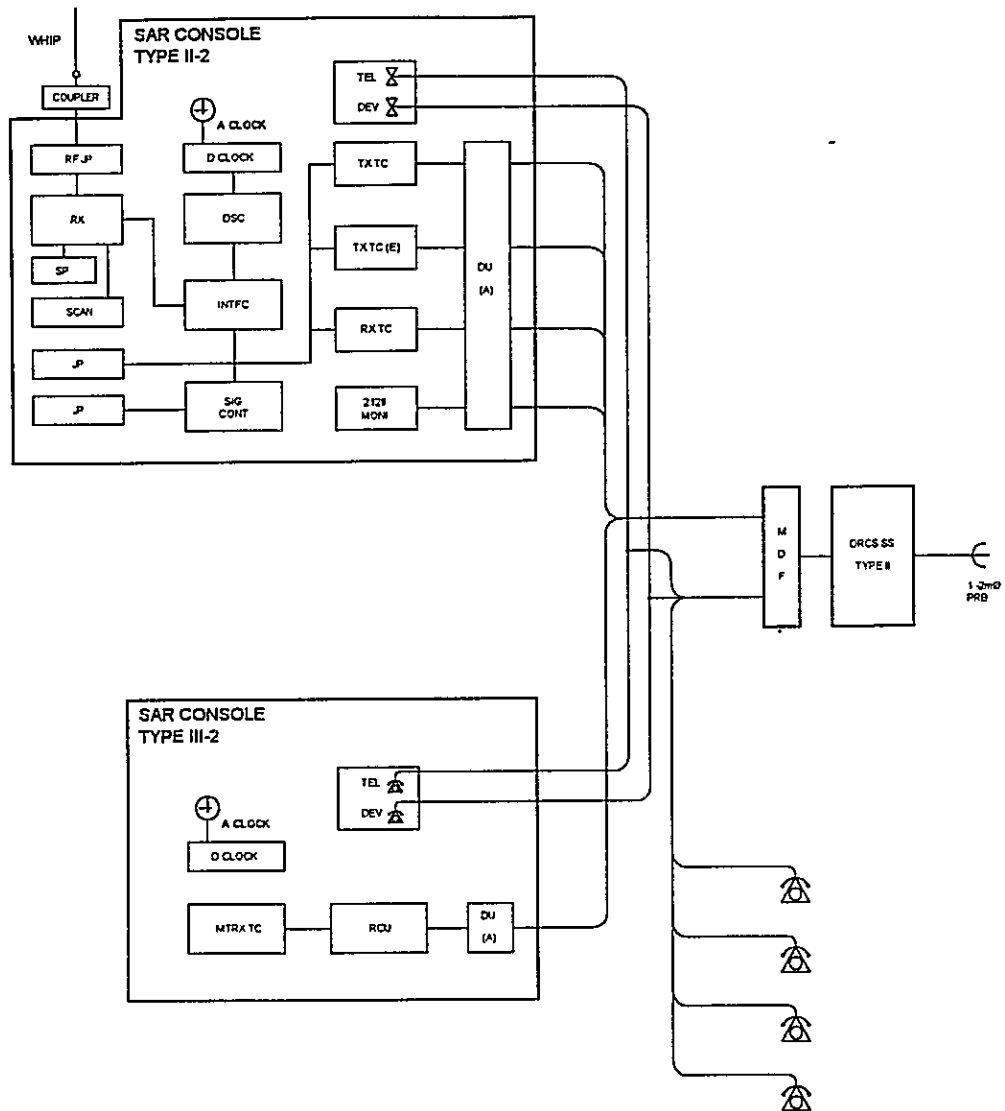


LEGEND

- A : AMPERE
- AC : ALTERNATING CURRENT
- BPS : BATTERY POWER SUPPLY
- IST : ISOLATION TRANSFORMER
- kVA : KILO VOLT AMPERE
- MDF : MAIN DISTRIBUTION FRAME
- V : VOLT

DATE June 19, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1/1
SCALE 1 : 50 / 1 : 500	SITE NAME DUMAI	
DIMENSION Millimeter	DRAWING NO K, P, L, P, - D, U, M, - 0, 2, 6, - 3, 1	
JICA	PT. Aneka Asia Buana	

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



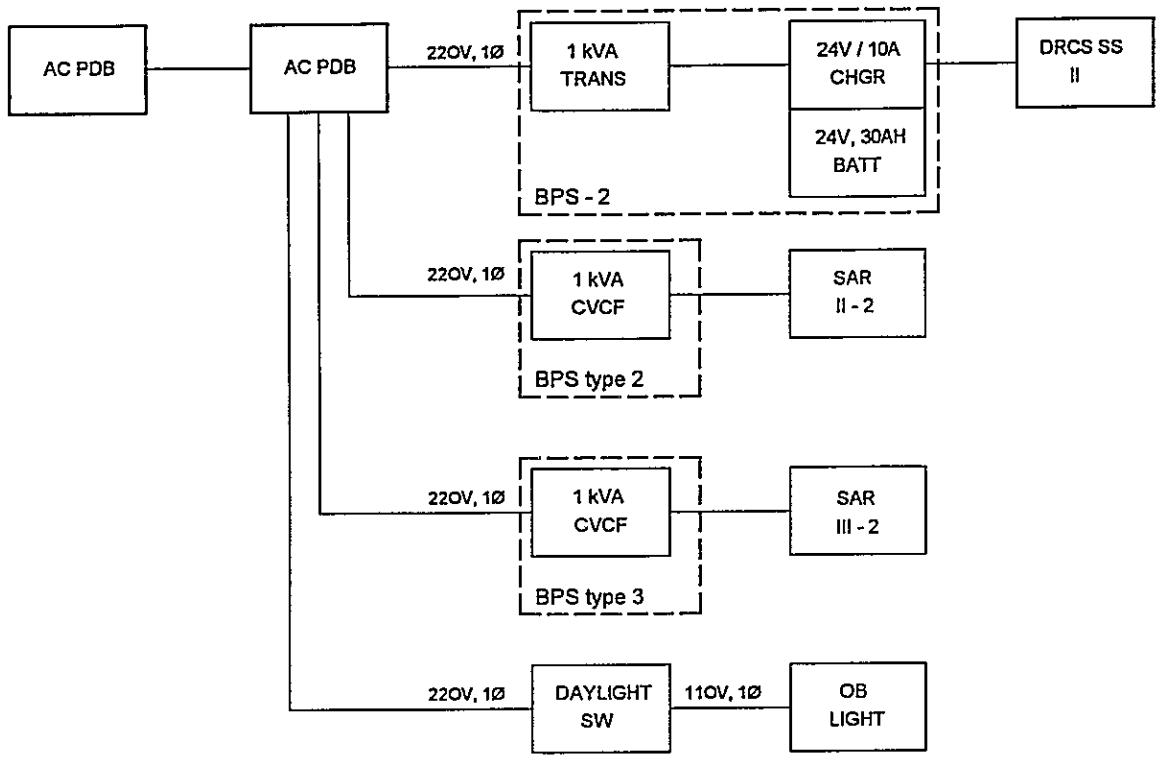
LEGEND

DSC DIGITAL SELECTIVE CALLING
 MOF MAIN DISTRIBUTION FRAME
 TX TRANSMITTER (ING)
 RX RECEIVING (ING)

APPROVED BY JICA

DRAWN BY AAE

DATE	DRAWING TITLE	SHEET NO.
June 18, 2001	SYSTEM BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	DUMAI	
DIMENSION	DRAWING NO	
Milimeter	K, P, L, P, - D, U, M, - 0, 2, 6, - 5, 1	
		PT. Aneka Asia Buana



HAVE BEEN REMOVED

APPROVED BY JICA:
 DRAWN BY AAB:

LEGEND
 PDB POWER DISTRIBUTION BOARD
 V VOLT
 Ø PHASE

DATE June 18, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO. 1 / 1
SCALE No Scale	SITE NAME DUMAI	
DIMENSION Milimeter	DRAWING NO K, P, L, P, -, D, U, M, -, 0, 2, 6, -, 6, 1	
- PT. Aneka Asia Buana		

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

1st Class Coast Station
Dumai
(Coast Station No. 26)

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	DUMAI		
	CLASS	1st	NO.	26

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
RX	Jl. Tegalega No. 1	31221-31429		101° 26' 16" E	01° 39' 24" N
TX	Jl. Sutan Syarif Kasyim No. 22	31382		101° 27' 20" E	01° 41' 10" N

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Pekanbaru [Taking time: 2.00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	180,000
By Car	to Dumai [Taking time: 4.00 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 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 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	1.00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	10,000 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	Slate	Wire	4	<input checked="" type="checkbox"/>	<input type="checkbox"/> Operations of E/G
Type of ceiling	Plasterboard	kVA	30	<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 ± 15 %	Day tank	50 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	98.00	Total interpt. hours /month	20 Hours	<input checked="" type="checkbox"/>	<input type="checkbox"/> Single System
E / G room	40.00	Max. interpt hours at once	8 Hours	<input type="checkbox"/>	<input 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 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	2.50 m		Telephone Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/> Feeder Cable Way
Land area	40,000 m ²		<input checked="" type="checkbox"/> Lines	<input type="checkbox"/>	<input checked="" type="checkbox"/> City water

SUMMARY OF COAST STATION	SITE	DUMAI		
	CLASS	1st	NO	26

4. CONDITIONS OF TRANSMITTING STATION (Continued)				Refer to attached drawing	
Building Conditions		Power Source			
Constructions		PLN Source		Existing Power Conditions	
Num. of story	One	Voltage	220/380 V	E/G	220/380 V
Structure	Concrete	Phase	3	Good Bad	
Type of roof	Asbestos	Wire	4	<input checked="" type="checkbox"/> <input type="checkbox"/> Power Supply System	
Type of ceiling	Triplex	kVA	50	<input checked="" type="checkbox"/> <input type="checkbox"/> Operations of E/G	
Type of wall	Brick	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Mortar	Fluctuations	220 V ± 14 %		Day tank
Flooring	Tile	Availability of power per day	24 Hours		50 Liter
Room Area (m²)		Power interruption /month		E/G Stand-by System	
Operation room	96.00	Total interpt. hours /month	10 Times		Main tank
E / G room	40 00	Max interpt hours at once	20 Hours		5 k Liter
				<input checked="" type="checkbox"/> Single System	
				<input type="checkbox"/> Dual System	
Remark					

5. OPERATION AND MAINTENANCE				6. PERSONNEL FORMATIONS							
Actions taken in equipment failure						RX	TX				
Restoration flow	Repairing			Chief		1					
Examples of major failure	Lightening disturbance/Up-Down PLN Power			Operator (skilled)		(46)	0				
Sufficiency of spares	Un-available			Technician (skilled)		0	70				
Records of damages			Environmental Conditions		Administrator		5				
<input type="checkbox"/> Heavy rainfall			Good	Bad							
<input type="checkbox"/> Storm			<input checked="" type="checkbox"/>	<input type="checkbox"/>	External noises		Total	52			
<input type="checkbox"/> Lightning			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Air pollution			7			
<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		Pre	I	JKT		1
3 Measuring eqpt /tools	<input type="checkbox"/> Enough		<input checked="" type="checkbox"/> Reasonable		<input type="checkbox"/> Not enough		Pre	II	JKT		2
4 Number of Operator	<input checked="" type="checkbox"/> Enough		<input type="checkbox"/> Reasonable		<input type="checkbox"/> Not enough		ITP	II	JKT		2
5 Number of Technician	<input checked="" type="checkbox"/> Enough		<input type="checkbox"/> Reasonable		<input type="checkbox"/> Not enough		ITP	III	JKT		1
6 Capability of Operator	<input checked="" type="checkbox"/> Skilled		<input type="checkbox"/> Not so bad		<input type="checkbox"/> Not capable		Operator	Oru	MDN		12
7 Capability of Technician	<input checked="" type="checkbox"/> Skilled		<input type="checkbox"/> Not so bad		<input type="checkbox"/> Not capable						

7. STATISTICAL COMMUNICATION TRAFFIC DATA												
Maritime Safety						Public Telecommunication Service						
Years	JG	TEL	DSC	NBDP	Years	Telephone		TG Call	Years	Telephone		TG Call
						Call	Minute			Call	Minute	
1996					1991			369	1996	16	83	643
1997	2	25			1992			365	1997			685
1998		95			1993	14	80	385	1998	18	75	845
1999		66			1994	12	59	432	1999	50	207	607
2000		48			1995	27	156	755	2000	6	24	458

8. COMMENTS	
Suggestion	Construction or installation new repeater in 1st class Coast Station Dumai on position Selat Morong or Tanjung Medang Develop or install new VTS for Dumai Disnav's area in Tg Parit, Tg Medang and P. jemur. Provide new SAR integrated equipment at Tg Medang
Remarks	

INVENTORY

Site Name: Dumai

DUM-026- (1 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter							
		1kW MF/HF Transmitter (MOBIL)	JRS-713AM	JF00033	JRC	1997	F-TA-193:PH3		Good
		1kW MF/HF Transmitter (FIX)	JRS-713BM	JF00039	JRC	1997	F-TA-193:PH3		Good
1		1 kW HF DSC Transmitter	JRS-713AM	BS63504	JRC	1995	F-TA-193:PH3		Good
2		1 kW HF NBDP Transmitter	JRS-713AM	BS63503	JRC	1995	F-TA-193:PH3		Good
3		1kW HF SSB Transmitter	JRS-106 NB	BS-61497	JRC	1989	F-TA-193:PH2		Good
4		1kW MF Transmitter	JRS-108 P	BS-62120	JRC	1989	F-TA-193:PH2		Good
5		1kW HF Transmitter	JRS-106 NB	BS-62104	JRC	1989	F-TA-193:PH2		Good
6		1kW HF Transmitter	JRS-106 NB	BS-62105	JRC	1989	F-TA-193 PH2		Good
7		1kW HF Transmitter	JRS-106 NB	BS-62113	JRC	1989	F-TA-193:PH2		Good
8		1kW HF Transmitter	JRS-106 NB	BS-62078	JRC	1990	SAR Project		Good
9		1kW HF Transmitter	JRS-106 NB	BS-62079	JRC	1990	SAR Project		Good
10		HF Telephone Transmitter	MC 2428/502	955/32/53305	Philips	-			Good
11		HF Telephone Transmitter	MC 2428/501	955/32/13205	Philips	-			Good
12		MF/HF TP Transmitter	MC 2428/501	955/32/53305	Philips	-			Good
13		MF Telegraph Transmitter	MC 2428/501	955/32/59352	Philips	-			Good
1-2		Remote Control System							
1		Multiplex Radio	JUP-450	EM- 11509	JRC	1985	F-TA-193:PH1		Good
2		Multiplex Radio	JUP-450	EM-11510	JRC	1985	F-TA-193:PH1		Good
3		Multiplex Radio	JUP-450	EM-11511	JRC	1985	F-TA-193:PH1		Good
4		Multiplex Radio	JUP-450	EM-11512	JRC	1985	F-TA-193:PH1		Good
5		Multiplex Terminal	JUF-5A	EP-11844	JRC	1985	F-TA-193:PH1		Good
6		Multiplex Terminal	JUF-5A	EP-11845	JRC	1985	F-TA-193:PH1		Good
7		DRCS-BS (Radio Bay)	NUL-14B	ET-12099-1	JRC	1990	SAR Project		Damaged
8		DRCS-BS (Digital Interface Bay)	NUL-93A	ET-12099-2	JRC	1990	SAR Project		Damaged
9		Local Exchange	JUX-150D2	ET-15889	JRC	1989	SAR Project		Damaged
10		Voice Frequency Telegraph	JUT-1A	EQ-12842	JRC	1985	F-TA-193:PH1		Good
11		Voice Frequency Telegraph	JUT-1A	EQ-12843	JRC	1985	F-TA-193:PH1		Good
12		Remote Control Rack	GED-113A	BP-91859	JRC	1989	F-TA-193:PH1		Good
13		Remote Control Rack	GED-1110B	BP-91930	JRC	1989	SAR Project		Damaged
14		Local Terminal Unit	JCC-300LR&W	BP-89314	JRC	1985	F-TA-193:PH1		Good

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INVENTORY

Site Name: Dumai

DUM-026- (2 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
15		Local Terminal Unit	JCC-300LRB	BP-91769	JRC	1989	F-TA-193:PH2		Good
16		Local Terminal Unit	JCC-300LRB	BP-91776	JRC	1989	F-TA-193:PH2		Good
17		Local Terminal Unit	JCC-300LRB	BP-91771	JRC	1989	F-TA-193:PH2		Good
18		Local Terminal Unit	JCC-300LRB	BP-91772	JRC	1989	F-TA-193:PH2		Good
19		Telecontroller	NCH-300D	BP-91753	JRC	1985	F-TA-193:PH1		Good
20		Telecontroller	NCH-300D	BP-91754	JRC	1985	F-TA-193:PH1		Good
21		Telecontroller	NCH-300D	BP-91756	JRC	1985	F-TA-193:PH1		Good
22		Main Distribution Frame	NQE-40A	EQ-12821	JRC	1986	F-TA-193:PH1		Good
23		Main Distribution Frame	NQE-40A2	EQ-12822	JRC	1986	F-TA-193 PH1		Good
1-3		Operator Console/Desk/Rack							
1-3-1		Search & Monitor Console							
1		Search & Monitor Console Receiver	NCA-564B	BP-89353	JRC	1985	F-TA-193:PH1		Good
2		Search & Monitor Console Receiver	NRD-93	BR-33377	JRC	1985	F-TA-193:PH1		Good
3		Scanning Unit	NDH-93	BR-35456	JRC	1985	F-TA-193:PH1		Good
4		500 kHz AA Rec.	JXA-15A	BA-20744	JRC	1985	F-TA-193:PH1		Good
5		2182 kHz AA Rec.	JXA-8A	BA-21042	JRC	1985	F-TA-193:PH1		Good
6		Auto Direction Finder	JLR-1002	MF-12476	JRC	1985	F-TA-193:PH1		Good
7		500 kHz AA Buzzer	BZ-18	BA-20744	JRC	1985	F-TA-193:PH1		Good
8		Power Unit	NBA-3579	BP-20744	JRC	1985	F-TA-193:PH1		Good
9		Power Supply	NBA-1180	MF-12476	JRC	1985	F-TA-193:PH1		Good
10		Audio Select and Monitor	NCJ-280 B	BP-89377	TEAC	1985	F-TA-193:PH1		Good
11		Tape Recorder	X-2000 R	50582	TEAC	1985	F-TA-193:PH1		Good
1-3-2		MF TP Console							
1		Console	NCA-822B	JF31757	JRC	1997	F-TA-193 PH3		Good
2		Receiver	NRD-93	BR33384	JRC	1985	F-TA-193:PH1		Good
3		Receiver	NRD-93	BR33441	JRC	1985	F-TA-193:PH1		Good
4		Scanning Unit	NDH-93	BR-35454	JRC	1985	F-TA-193:PH1		Good
5		Scanning Unit (existing)	NDH-93	BR-35455	JRC	1985	F-TA-193:PH1		Good
6		Speaker Panel	NVA-64-2	BP-23747	JRC	1985	F-TA-193:PH1		Good
7		Signal Controller	NQP-21-1	JF31872	JRC	1997	F-TA-193:PH3		Good
8		Signal Controller	NQP-21-1	JF31872	JRC	1985	F-TA-193:PH1		Good
9		Telephone Repeater	NQQ-31BB	JF31891	JRC	1997	F-TA-193:PH3		Good

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INVENTORY

Site Name: Dumai

DUM-026- (3 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
10		Telecontroller	NCH-701M	JF31957	JRC	1997	F-TA-193:PH3		Good
11		Tx Selector	NCJ-676	JF32058	JRC	1997	F-TA-193:PH3		Good
12		Junction Box	NQD-3760	1	JRC		F-TA-193:PH3		Good
13		Jack Panel	NQC-742A	1	JRC		F-TA-193:PH3		Good
14		RF Jack Panel	NQE-584C	1	JRC		F-TA-193:PH3		Good
15		Power Supply	NBK-31	1	JRC		F-TA-193:PH3		Good
16		Clock (+7H)	6HCED00073	1	JRC		F-TA-193:PH3		Good
17		Headset	NTR-3302	1	JRC		F-TA-193 PH3		Good
18		Telecontroller	NCH-300P	BP91755	JRC	1985	F-TA-193,PH1		Good
1-3-3		HF TG/NBDP/TP Console							
1		Console	NCA-821B	JF31763	JRC	1997	F-TA-193:PH3		Good
2		Receiver	NRD-93	BR33377	JRC	1985	F-TA-193 PH1		Good
3		Receiver	NRD-93	BR33383	JRC	1985	F-TA-193 PH1		Good
4		Scanning Unit	NDH-93	BR-35454	JRC	1985	F-TA-193:PH1		Good
5		Speaker Panel	NVA-64-2	BP-23749	JRC	1986	F-TA-193 PH1		Good
6		Speaker Panel	NVA-64-3	BP-23750	JRC	1987	F-TA-193:PH1		Good
7		Signal Controller	NQP-21-1	JF31873	JRC	1997	F-TA-193:PH3		Good
8		Signal Controller	NQP-21-1	JF31874	JRC	1997	F-TA-193:PH3		Good
9		Telephone Repeater	NQQ-31BB	JF31892	JRC	1997	F-TA-193:PH3		Good
10		Telecontroller	NCH-300P	BP89299	JRC	1985	F-TA-193:PH1		Good
11		Telecontroller	NCH-300P	BP91754	JRC	1985	F-TA-193,PH1		Good
12		Telecontroller	NCH-701M		JRC	1985	F-TA-193,PH1		Good
13		System Rack	NCT-32S	JF31739	JRC	1997	F-TA-193:PH3		Good
14		Power Supply	NBA-3979C		JRC	1997	F-TA-193,PH3		Good
15		FS MODEM	CHF-12A	JF31708	JRC	1997	F-TA-193 PH3		Good
16		CPU Interface	CDC-721A	JF31721	JRC	1997	F-TA-193:PH3		Good
17		Level Converter	CMH-1280B	JF31732	JRC	1997	F-TA-193:PH3		Good
18		Personal Computer	PC 300 GL	90-C8KW9	IBM	1997	F-TA-193:PH3		Good
19		CRT Display	6540-02E	66-52053	IBM	1997	F-TA-193:PH3		Good
20		Keyboard	KB-8923	0180759	IBM	1997	F-TA-193:PH3		Good
21		Mouse		23-033546	IBM	1997	F-TA-193,PH3		Good
22		Software for NBDP/TELEX	7YLED1106	1		1997	F-TA-193 PH3		Good
23		Desk for Personal Computer	CD4-398	1		1997	F-TA-193:PH3		Good

INVENTORY

Site Name: Dumai

DUM-026- (4 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
24		Printer Rack	P-1020G	1		1997	F-TA-193:PH3		Good
25		Printer	LX-300	1YNY044232	EPSON	1997	F-TA-193:PH3		Good
26		Printer	LX-300	1YNY044214	EPSON	1997	F-TA-193:PH3		Good
27		Printer Auto-Switch	ASL-21(230)	1		1997	F-TA-193:PH3		Good
28		Power Supply	NQD-3759	2	JRC	1997	F-TA-193:PH3		Good
29		Power Supply	NQD-3759		JRC	1997	F-TA-193:PH3		Good
30		Junction Box	NRD-3759B	2	JRC	1997	F-TA-193:PH3		Good
31		Junction Box	NRD-3759B		JRC	1997	F-TA-193:PH3		Good
32		Jack Panel	NQC-742A	2	JRC	1997	F-TA-193:PH3		Good
33		Jack Panel	NQC-742A		JRC	1997	F-TA-193:PH3		Good
34		RF Jack Panel	NQE-584C	2	JRC	1997	F-TA-193:PH3		Good
35		RF Jack Panel	NQE-584C		JRC	1997	F-TA-193:PH3		Good
36		Power Supply	NBK-31	1	JRC	1997	F-TA-193:PH3		Good
37		Power Supply	NBK-31A	1	JRC	1997	F-TA-193:PH3		Good
38		Clock (+7H)	6HCED00073	1	JRC	1997	F-TA-193:PH3		Good
39		Key	HK-704	2	JRC	1997	F-TA-193:PH3		Good
40		Key	HK-704		JRC	1997	F-TA-193:PH3		Good
41		Headphone	ST-3	1	JRC	1997	F-TA-193:PH3		Good
42		Headset	NTR-3302	2	JRC	1997	F-TA-193:PH3		Good
43		Paper Tape Reader Puncher	DPT-610A	1	JRC	1997	F-TA-193:PH3		Good
44		Morse Converter	NGK-9	JF31746	JRC	1997	F-TA-193:PH3		Good
45		Software for NGK-9	7YRED0002	1		1997	F-TA-193:PH3		Good
46		Personal Computer	PC 300 GL	90-C8L38	IBM	1997	F-TA-193:PH3		Good
47		CRT Display	6540-02E	66-52041	IBM	1997	F-TA-193:PH3		Good
48		Keyboard	KB-8923	0180759	IBM	1997	F-TA-193:PH3		Good
49		Mouse		23-003504	IBM	1997	F-TA-193:PH3		Good
50		Printer	LX-300	1YNY044232	EPSON	1997	F-TA-193:PH3		Good
51		Desk for Personal Computer	CD4-398	1		1997	F-TA-193:PH3		Good
1-3-4		FIX COMM. Console							
1		Console	NCA-823B	JF31767	JRC	1997	F-TA-193:PH3		Good
2		Receiver	NRD-93	BR78046	JRC	1985	F-TA-193:PH1		Good
3		Receiver	NRD-93	BR33380	JRC	1985	F-TA-193:PH1		Good
4		Speaker Panel	NVA-64-2	BP-23748	JRC	1985	F-TA-193:PH1		Good

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INVENTORY

Site Name: Dumai

DUM-026- (5 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
5		Telecontroller	NCH-300P	BP91746	JRC	1985	F-TA-193:PH1		Good
6		Telecontroller	NCH-701M	JF31958	JRC	1997	F-TA-193:PH3		Good
7		Signal Controller	NQP-21-1	JF31875	JRC	1997	F-TA-193:PH3		Good
8		Audio & Key Switch	NCJ-400B	JF31862	JRC	1997	F-TA-193:PH3		Good
9		Telephone Repeater	NQQ-31BB	JF31893	JRC	1997	F-TA-193:PH3		Good
10		Common Repeater	NQQ-18GC	JF31942	JRC	1997	F-TA-193:PH3		Good
11		System Rack	NCT-32S	JF31740	JRC	1997	F-TA-193:PH3		Good
12		FS MODEM	CHF-12A	JF31709	JRC	1997	F-TA-193:PH3		Good
13		CPU Interface	CDC-721A	JF31722	JRC	1997	F-TA-193:PH3		Good
14		Personal Computer	PC 300 GL	90-C8KW4	IBM	1997	F-TA-193:PH3		Good
15		CRT Display	6540-02E	66-49716	IBM	1997	F-TA-193:PH3		Good
16		Keyboard	KB-8923	0180865	IBM	1997	F-TA-193:PH3		Good
17		Mouse		23-033987	IBM	1997	F-TA-193:PH3		Good
18		Software for NBDP	7YLED1105	1	JRC	1997	F-TA-193:PH3		Good
19		Desk for PC	CD4-398	1	JRC	1997	F-TA-193:PH3		Good
20		Junction Box	NQD-3761	1	JRC	1997	F-TA-193:PH3		Good
21		Power Supply	NBK-31	1	JRC	1997	F-TA-193:PH3		Good
22		Clock (+7H)	6HCED00073	1	JRC	1997	F-TA-193:PH3		Good
23		Jack Panel	NQC-742A	1	JRC	1997	F-TA-193:PH3		Good
24		RF Jack Panel	NQE-584C	1	JRC	1997	F-TA-193:PH3		Good
25		Headset	NTR-3302	1	JRC	1997	F-TA-193:PH3		Good
26		Printer Rack	P-1020G	1	JRC	1997	F-TA-193:PH3		Good
27		Printer	LX-300	81J013917	EPSON	1997	F-TA-193:PH3		Good
1-3-5		DSC Console							
1		DSC Console (1U type)	NCA-783B	BP98268	JRC	1995	F-TA-193:PH3		Good
2		Junction Box	NQD-3655B		JRC	1995	F-TA-193:PH3		Good
3		Power Supply	NBK-31		JRC	1995	F-TA-193:PH3		Good
4		Telecontroller	NCH-701M	BP98698	JRC	1995	F-TA-193:PH3		Good
5		Personal Computer DX4/100	PC100		IBM	1995	F-TA-193:PH3		Good
6		CRT Display	6542 - 105	66-593669	IBM	1995	F-TA-193:PH3		Good
7		System Floppy Disk (DSC)	7YLED10101		IBM	1995	F-TA-193:PH3		Good
8		Master Clock	NKH-100	BP99582	JRC	1995	F-TA-193:PH3		Good
9		Printer	LX-300	77366	EPSON	1995	F-TA-193:PH3		Good

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INVENTORY

Site Name: Dumai

DUM-026- (6 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1-3-6		DSC Rack							
1		DSC W/K RX Rack (2U type)	GED-1249C	BP98300	JRC	1995	F-TA-193:PH3		Good
2		RF Jack Panel	NQE-584R-C		JRC	1995	F-TA-193:PH3		Good
3		Junction Box	NQD-3631C		JRC	1995	F-TA-193:PH3		Good
4		ALM Buzzer	CCD-242		JRC	1995	F-TA-193:PH3		Good
5		DSC W/K Receiver	NRD-740	BR-69392	JRC	1995	F-TA-193:PH3		Good
6		DSC W/K Receiver	NRD-740	BR-69393	JRC	1995	F-TA-193:PH3		Good
7		DSC W/K Receiver	NRD-740	BR-69394	JRC	1995	F-TA-193:PH3		Good
8		DSC W/K Receiver	NRD-740	BR-69395	JRC	1995	F-TA-193:PH3		Good
9		DSC W/K Receiver	NRD-740	BR-69396	JRC	1995	F-TA-193:PH3		Good
10		DSC W/K Receiver	NRD-740	BR-69397	JRC	1995	F-TA-193:PH3		Good
11		DSC W/K Receiver	NRD-740	BR-69398	JRC	1995	F-TA-193:PH3		Good
12		DSC W/K Receiver	NRD-740	BR-69399	JRC	1995	F-TA-193:PH3		Good
13		RX Controller	NCJ-536A	BP98371	JRC	1995	F-TA-193:PH3		Good
14		Antenna Multi-coupler	NAJ-110A	BC19362	JRC	1995	F-TA-193:PH3		Good
15		1600kHz High Pass Filter	CFK-2	BC19347	JRC	1995	F-TA-193:PH3		Good
16		System Rack	NCT-32	BP98540	JRC	1995	F-TA-193:PH3		Good
17		DSC DEM	CND-129A	BP98449	JRC	1995	F-TA-193:PH3		Good
18		DSC DEM	CND-129A	BP98450	JRC	1995	F-TA-193:PH3		Good
19		DSC MOD	CNM-159A	BP98491	JRC	1995	F-TA-193:PH3		Good
20		VHF DSC Modem (CH 70)	CNM-158A	BP98516	JRC	1995	F-TA-193:PH3		Good
21		CPU IF	CDC-721A	BP98412	JRC	1995	F-TA-193:PH3		Good
22		Power Supply	NBA-3979C	BP98553	JRC	1995	F-TA-193:PH3		Good
1-3-7		NBDP Console							
1		Console (2U Type)	NCA-784A	BP98278	JRC	1995	F-TA-193:PH3		Good
2		Jack Panel	NQC-742A		JRC	1995	F-TA-193:PH3		Good
3		RF Jack Panel	NQE-584C		JRC	1995	F-TA-193:PH3		Good
4		Junction Box	NQD-3654A		JRC	1995	F-TA-193:PH3		Good
5		Power Supply	NBK-31		JRC	1995	F-TA-193:PH3		Good
6		Receiver	NRD-93	BR69357	JRC	1995	F-TA-193:PH3		Good
7		Receiver	NRD-93	BR69358	JRC	1995	F-TA-193:PH3		Good
8		Hybrid	CB721S-S		JRC	1995	F-TA-193:PH3		Good
9		Speaker Panel	NVA-64-2		JRC	1995	F-TA-193:PH3		Good
10		Telecontroller	NCH-701M	BP98699	JRC	1995	F-TA-193:PH3		Good

INVENTORY

Site Name: Dumai

DUM-026- (7 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
11		Signal Controller	NQP-21-1	BP98626	JRC	1995	F-TA-193:PH3		Good
12		Telephone Repeater	NQQ-31BA	BP98639	JRC	1995	F-TA-193:PH3		Good
13		System Rack	NCT-32S-A	BP98566	JRC	1995	F-TA-193:PH3		Good
14		FS Modem	CHF-12A	BP98390	JRC	1995	F-TA-193:PH3		Good
15		CPU IF	CDC-721A	BP98413	JRC	1995	F-TA-193:PH3		Good
16		Level Converter	CMH-1280A	BP98575	JRC	1995	F-TA-193:PH3		Good
17		2W/4W Converter	NHH-556A - 3	BP99818	JRC	1995	F-TA-193:PH3		Good
18		Personnal Computer	6281-V5B PC-	A19000A4	IBM	1995	F-TA-193:PH3		Good
19		CRT Display	6542-105	66-59370	IBM	1995	F-TA-193:PH3		Good
20		System Floppy Disk	7YLED10106		IBM	1995	F-TA-193:PH3		Good
21		Desk for Computer	CD4-398		IBM	1995	F-TA-193:PH3		Good
22		Clock (+7H)	6HCED00073		IBM	1995	F-TA-193:PH3		Good
23		Headset	NTR-3302		JRC	1995	F-TA-193:PH3		Good
24		Morse Key	HK-704		JRC	1995	F-TA-193:PH3		Good
25		Cable for Key	KC-547		JRC	1995	F-TA-193:PH3		Good
26		Headphone	ST-3		JRC	1995	F-TA-193:PH3		Good
27		Printer	LX-300	77199	EPSON	1995	F-TA-193:PH3		Good
28		Printer	LX-300	77412	EPSON	1995	F-TA-193:PH3		Good
29		Printer Auto-Switch	ASL-21(240)			1995	F-TA-193:PH3		Good
30		Paper Tape Reader/Puncher	DPT-610A		JRC	1995	F-TA-193:PH3		Good
1-3-8		Operation Rack							
1		Rack	GED-1055A	BP-89361	JRC	1985	F-TA-193:PH1		Good
2		Receiver	NRD-93	BR-33381	JRC	1985	F-TA-193:PH1		Good
3		Receiver	NRD-93	BR-33382	JRC	1985	F-TA-193:PH1		Good
4		Receiver	NRD-93	BR-33378	JRC	1985	F-TA-193:PH1		Good
5		Receiver	NRD-93	BR-33379	JRC	1985	F-TA-193:PH1		Good
6		Telephone Controller	NCH-300P	BP-89299	JRC	1985	F-TA-193:PH1		Good
7		Radio Terminal	NQP-11	BP-89429	JRC	1985	F-TA-193:PH1		Good
8		Telephone Controller	NCH-300P	BP-91746	JRC	1985	F-TA-193:PH1		Good
9		Radio Terminal	NQP-11	BP-89430	JRC	1985	F-TA-193:PH1		Good
10		Lincomplex	NZA-15	BB-10101	JRC	1985	F-TA-193:PH1		Good
11		ARQ Equipment	NCL-550A	GA-10266	JRC	1985	F-TA-193:PH1		Good
12		Telephone Repeater	NQQ-31A	BP-89458	JRC	1985	F-TA-193:PH1		Good
13		Common Repeater	NQQ-18G	BP-89463	JRC	1985	F-TA-193:PH1		Good

INVENTORY

Site Name: Dumai

DUM-026- (8 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
14		Speaker Panel	NVA-92	BP-23745	JRC	1985	F-TA-193:PHI		Good
15		Speaker Panel	NVA-92	BP-23746	JRC	1985	F-TA-193:PHI		Good
16		Speaker Panel	NVA-92	BP-23751	JRC	1985	F-TA-193:PHI		Good
17		Morse Transmitter	NGK-2A		JRC	1985	F-TA-193:PHI		Good
18		Power Supply	NBK-31B		JRC	1985	F-TA-193:PHI		Good
19		Power Supply	NBK-31B		JRC	1985	F-TA-193:PHI		Good
1-3-11		Receiver							
1		Receiver	NRD-515	011/21	JRC	1982	F-TA-193:PHI		Good
2		Receiver	NRD-515	011/22	JRC	1982	F-TA-193:PHI		Good
1-4		VHF System							
1		VHF TX/RX (CH70 DSC)	JRV-500AP	BH20425	JRC	1995	F-TA-193:PH3		Good
2		VHF Transceiver (ch: 16)	GFD-260 YK	CV-57465	JRC	1985	F-TA-193:PHI		Good
3		VHF Transceiver (ch: 20)	GFD-260 YL	CV-57481	JRC	1985	F-TA-193:PHI		Good
4		VHF Transceiver (ch: 22)	GFD-260 YL	CV-57482	JRC	1985	F-TA-193:PHI		Good
5		Marine Transceiver	GFD-260YM	BH-16888	JRC	1989	SAR Project		Good
6		VHF Console	GFD-501 YB(A)	CV-57488	JRC	1985	F-TA-193:PHI		Good
7		Remote Control Rack	GED-1110A	BP-91919	JRC	1989	SAR Project		Good
8		Main Distribution Frame	?		JRC	1989	SAR Project		Good
9		Duplexer	AW-158YB	950716	JRC	1995	F-TA-193:PH3		Good
10		Duplexer	DF 33-1500A	F-44460	JRC	1985	F-TA-193:PHI		Good
11		Duplexer	DF 33-1500A	F-44466	JRC	1985	F-TA-193:PHI		Good
12		Coaxial Arrester	NYZ-150	95002	JRC	1995	F-TA-193:PHI		Good
13		Coaxial Arrester	NZY-400	84017	JRC	1985	F-TA-193:PHI		Good
14		Coaxial Arrester	NZY-400	84050	JRC	1985	F-TA-193:PHI		Good
15		Band Pass Filter	BP2-1500A	F-44451	JRC	1985	F-TA-193:PHI		Good
2		Tower & Antenna System							
2-1		Tower & Mast							
		TX Station	Square	M1(TX)		1975			Good
		30mH Guy Mast	Square	M2(TX)		1975			Good
		30mH Guy Mast							

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INVENTORY

Site Name: Dumai

DUM-026- (9/12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
3		30mH Guy Mast	Square	M3(TX)		1975			Good
4		20mH Guy Mast	Square	M4(TX)		1975			Good
5		20mH Guy Mast	Square	M5(TX)		1975			Good
6		20mH Guy Mast	Square	M6(TX)		1975			Good
7		10mH Guy Mast	Square	M7(TX)		1975			Good
8		14mH Guy Mast	Square	M8(TX)		1975			Good
9		30mH Self Supporting	Square	703514 - 1		1996	F-TA-193:PH3		Good
10		30mH Self Supporting	Square	703514 - 2		1996	F-TA-193:PH3		Good
11		30mH Self Supporting	Square	703514 - 3		1996	F-TA-193:PH3		Good
12		RX Station							
13		20mH Guy Mast	Square	M1(RX)		1975			Good
14		20mH Guy Mast	Square	M2(RX)		1975			Good
15		20mH Guy Mast	Square	M3(RX)		1975			Good
16		20mH Guy Mast	Square	M4(RX)		1975			Good
17		25mH Self Supporting	Square	T1(RX)		1975			Good
2-2		Antenna System							
		TX Station							
1		4W T Type Antenna		1		1986	F-TA-193 PH1		Good
2		Vertical Cage Antenna		2		1986	F-TA-193 PH1		Good
3		Single Doublet Antenna		3		1986	F-TA-193:PH1		Good
4		Single Doublet Antenna		4		1986	F-TA-193:PH1		Good
5		Single Doublet Antenna		5		1986	F-TA-193:PH1		Good
6		Single Doublet Antenna		6		1986	F-TA-193:PH1		Good
7		Single Doublet Antenna		7		1986	F-TA-193:PH1		Good
8		Single Doublet Antenna		8		1986	F-TA-193:PH1		Good
9		Single Doublet Antenna		9		1986	F-TA-193:PH1		Good
10		Single Doublet Antenna		10		1986	F-TA-193:PH1		Good
11		Single Doublet Antenna		11		1986	F-TA-193:PH1		Good
12		Single Doublet Antenna		12		1986	F-TA-193:PH1		Good
13		Single Doublet Antenna		13		1986	F-TA-193:PH1		Good
14		Single Doublet Antenna		14		1986	F-TA-193:PH1		Good
15		14 5mH Mono Cone Antenna		15		1986	F-TA-193:PH1		Good
16		Multi Doublet Antenna		16		1986	F-TA-193:PH1		Good
17		Inverted "L" Ant	CL-045M	17	JRC	1995	F-TA-193:PH3		Good

Dumai

INVENTORY

Site Name: Dumai

DUM-026- (10 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
18		Inverted "L" Ant	CL-045M	18	JRC	1995	F-TA-193:PH3		Good
19		8-Elements YAGI Antenna RX Station	Y8-4503SA	4080	JRC	1985	F-TA-193:PH3		Good
1		Inverted "L" Ant		1		1975			Good
2		Inverted "L" Ant		2		1975			Good
3		Inverted "L" Ant		3		1975			Good
4		Inverted "L" Ant		4		1975			Good
5		Double Doublet Antenna		5		1975			Good
6		Double Doublet Antenna		?		1975			Good
7		Single Doublet Antenna		6		1975			Good
8		Single Doublet Antenna		7		1975			Good
9		RDF Loop Antenna	AE-0-62	8		1975			Good
10		8-Elements YAGI Antenna	Y8-4503SA	4077	JRC	1985	F-TA-193:PH1		Good
11		2GHz Antenna			JRC	1990	SAR Project		Good
12		Brown Cardioid Ant	BRC-1501	4036	JRC	1985	F-TA-193:PH1		Good
13		Brown Cardioid Ant.	BRC-1501	4043	JRC	1985	F-TA-193:PH1		Good
14		Brown Cardioid Ant.	BRC-1501	4048	JRC	1985	F-TA-193:PH1		Good
15		Brown Cardioid Ant	BRC-1501	???	JRC	1989	SAR Project		Good
16		Brown Cardioid Ant	BRC-1511		JRC	1995	F-TA-193:PH3		Good
2-3		Antenna Switch							
1		Antenna Switch Rack	GED-1116	BP-91893	JRC	1989	F-TA-193:PH2		Good
2		Antenna Switch Rack	GED-1116	BP-91892	JRC	1989	F-TA-193:PH2		Good
3		Antenna Switch	NKZ-61	-	JRC	1985	F-TA-193:PH1		Good
4		Antenna Switch	NKZ-61	???	JRC	1985	F-TA-193:PH1		Good
5		Antenna Exchange	NKZ-223	BP-91985	JRC	1989	SAR Project		Good
6		Antenna Changer	NKZ-230	JF31977	JRC	1985	F-TA-193:PH1		Good
7		Antenna Selector							
8		Antenna Selector Rack	GJD-107 G	BP-89120	JRC	1985	F-TA-193:PH1		Good
9		Antenna Selector	NKZ-220C		JRC	1985	F-TA-193:PH1		Good
10		Antenna Multicoupler	NAF-80FA	BC-13473	JRC	1985	F-TA-193:PH1		Good
11		Antenna Multicoupler	NAF-80FA	BC-13474	JRC	1985	F-TA-193:PH1		Good
12		BC Band Rejection Filter	CFL-172	BC-13528	JRC	1985	F-TA-193:PH1		Good
13		BC Band Rejection Filter	CFL-172	BC-13529	JRC	1985	F-TA-193:PH1		Good
13		Antenna Filter	BPZ-1500 A	F-44451	JRC	1985	F-TA-193:PH1		Good

INVENTORY

Site Name: Dumai

DUM-026- (11 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
2-3		Antenna Matching Unit	NFG-3CA	BP-91945	JRC	1989	F-TA-193:PH2		Good
1		Antenna Matching Unit	NFG-140A	BP-91889	JRC	1989	F-TA-193:PH2		Good
2		Antenna Matching Unit	NFG-140A	BP-98588	JRC	1995	F-TA-193:PH3		Good
3		Antenna Matching Unit	NFG-140A	BP-98587	JRC	1995	F-TA-193:PH3		Good
4		Antenna Matching Unit	NFG-140A						
3		Power Supply Equipment							
3-1		Power Distribution Board							
1		PDB 2x							Good
2		PDB 1x							Good
3		Power Switch Board	BNE-832						Good
4		PDB Type TA2 - 220V, 3Ø	NBJ-402TA2	BP-98355	JRC	1995	F-TA-193:PH3		Good
5		PDB Type RA2 - 380V, 3Ø	NBJ-402RA2	BP98328	JRC	1995	F-TA-193:PH3		Good
6		PDB Type RC - 220V, 1 Ø	NBJ-402RC	BP98378	JRC	1995	F-TA-193:PH3		Good
7		PDB Type RB - 220V, 1 Ø	NBJ-402RB	BP98329	JRC	1995	F-TA-193:PH3		Good
3-2		Isolation Transformer							
1		55kVA, 220V, 3Ø	NBL-227B2	BP-99805	JRC	1995	F-TA-193:PH3		Good
2		10kVA, 380V, 3Ø	NBL-227E1	BP-99815	JRC	1995	F-TA-193:PH3		Good
3-3		Step-Up Transformer							
1		25kVA, 220/380V, 3Ø				1986	F-TA-193:PH1		Good
2		25kVA, 127/220V, 1Ø				1986	F-TA-193:PH1		Good
3		3.5kVA, 220/380V, 3Ø	NBA-226B	BP-99786	JRC	1995	F-TA-193:PH3		Good
4		3.5kVA, 220/380V, 3Ø	NBA-226B	BP-99787	JRC	1995	F-TA-193:PH3		Good
3-4		UPS							
1		2kVA, 220V, 1Ø	Net Pro 2000	9626A008	JRC	1995	F-TA-193:PH3		Good
2		Accumulator	2 x 24V/400AH						Good
3		Accumulator	2 x 24V/400AH						Good
4		Accu Charger	1 x 24V/20A						Good
3-5		Engine Generator							
1		Engine	F6L-514		A Struver	1971			Good
2		Engine	F6L-514		A.Struver	1971			Good
3		Generator 44 kVA	DGB-42/604-4	413278	AVK	1974			Good
4		Generator 44 kVA	DGB-42/604-4	413270	AVK	1974			Good
5		Engine/Generator 10kVA	DGB-42/604-4		BKB EM				Trouble

Dumai

INVENTORY

Site Name: Dumai

DUM-026- (12 / 12)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
4		Measuring Equipment							
1		Oscilloscope	2235	B017843					Damaged
2		Digital Circuit Tester	MD-200C	841168					Damaged
3		Frequency Counter	5383A	2412A06295					Good
4		Audio Distortion Meter	796F	M-14427015					Good
5		RF Signal Generator	MSG-2560B	84113133					Good
6		Mega Ohm Tester	3213	03497S					Good
7		Electronic Voltmeter	ML-69A	M15286					Good
8		VHF Signal Generator	MG-54E	M44784					Good
9		VHF Output Testing Equipment	MS-52B	M49083					Good
10		Directional Coupler	MA-52A	M94387					Good
11		VHF/UHF Dummy Load	TP-5JID	22159					Good
12		Selec. Level Meter/Gen	AD-7530	534588					Good
13		UHF Signal Generator	MG-54D	M36691					Good
14		Psophometric Weighting Netw	NJM-776B	ES11468					Good
15		Portable Test Rack (1)	206						Good
16		DC Power Supply Unit	PAD-35-5L	1840887					Good
17		Tools (1)	ZPED00002						Good
18		Tools (1)	S-10						Good
19		Tools (1)	ND-XP217A-74						Good
5		Others							
1		Switch Box	QSS-30P/3						Damaged
2		Air Conditioner 1PK		1					Damaged
3		Air Conditioner 1PK		2					Good
4		Air Conditioner 1PK		3					Good
5		Air Conditioner 1PK		4					Good
6		Air Conditioner 1.5 PK		1					Good
7		Air Conditioner 1.5 PK		2					Good
8		Air Conditioner 1.5 PK		3					Good
9		Teleprinter (on Radio)	T-1000	L-270711	Siemens	1985			Out
10		Teleprinter (on Line)	T-1000	S-280778	Siemens	1985			Out
11		Teleprinter (with Stand)	T-1000	BC/S280778	Siemens	1985			Out

STATUS OF TROUBLES

SITE NAME : DUMAI

DUM-26-(1/1)

Item / Equipment	- / -	
Manufacturer	Japan	
Manufacturer in year	-	
Defective panel / unit	Repeater	
Details of Trouble Status	Cause due to:	Urgency of Repair
	<input checked="" 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>		
To avoid the equipment damaged by lightning; We request to completed by good lightening rod JRC spare part is un-available in the market, while JRC spare part is not enough.		

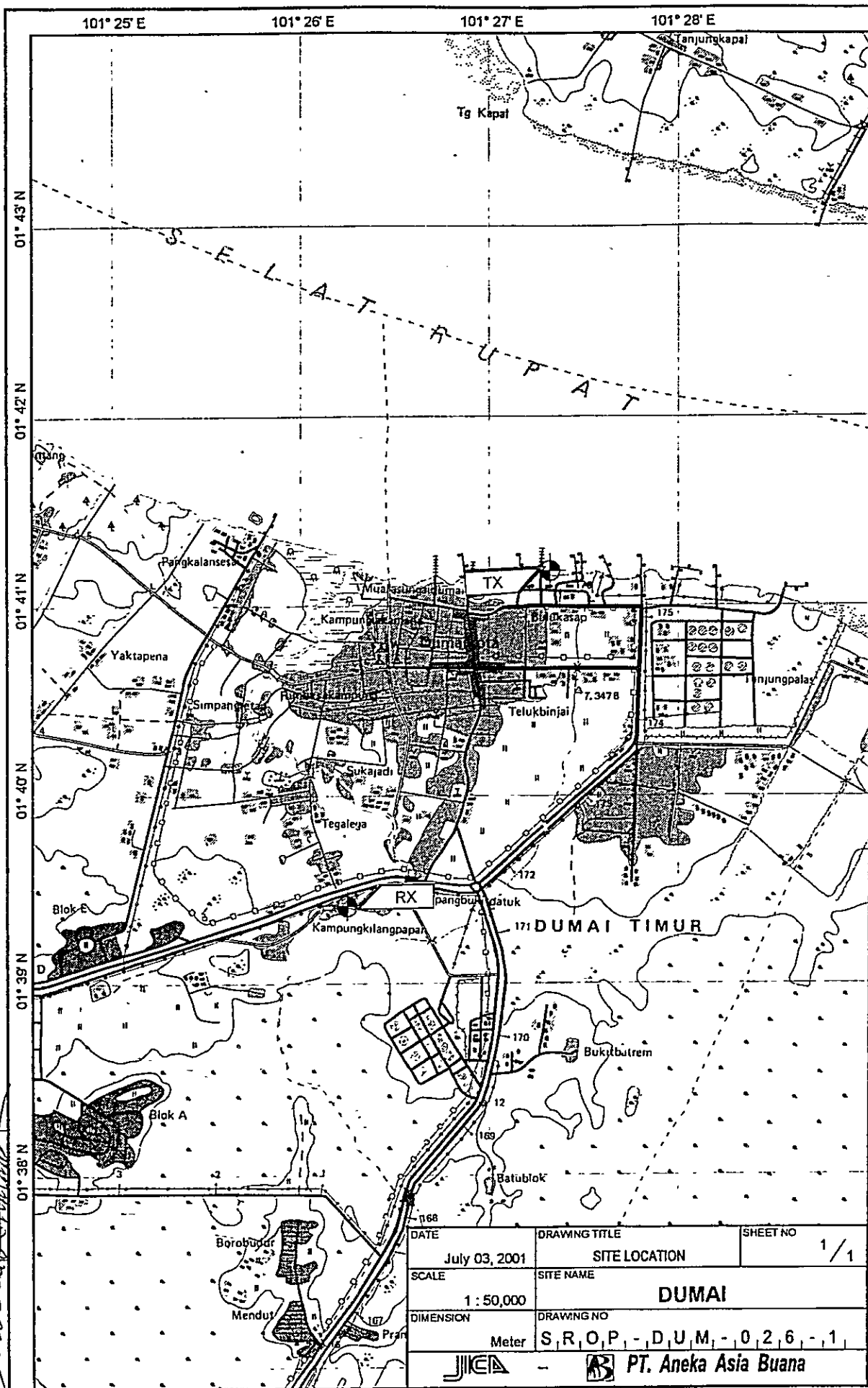
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Dumai

DUM-026-(1/1)

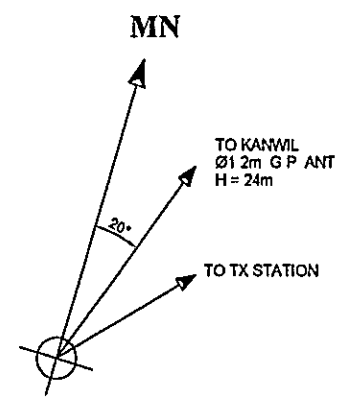
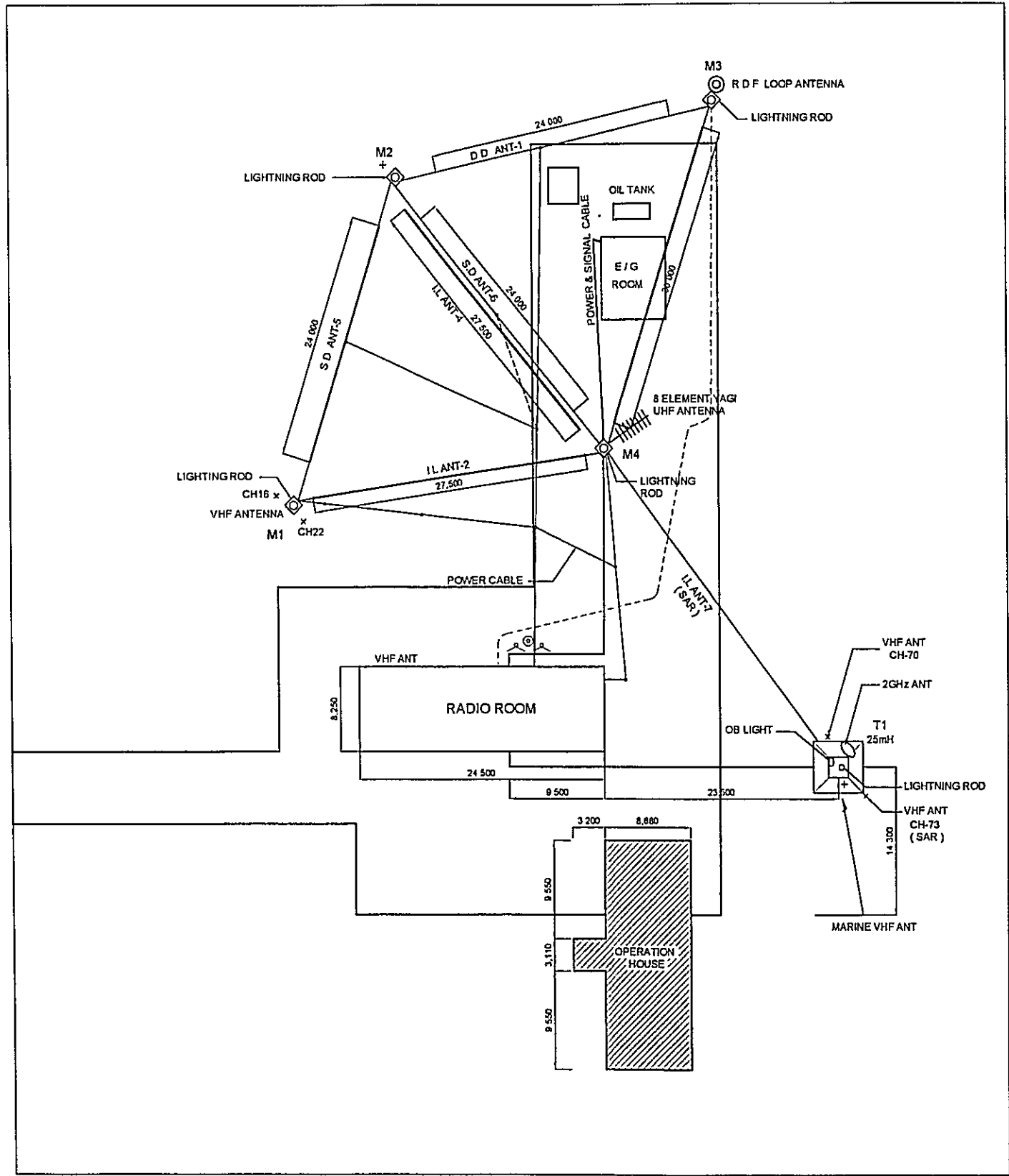
Call Sign : Mobile Service PKP
Fix Service AI008

FREQUENCY (KHz)	EMISSION	POWER (W)	UTC																								REMARK	
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mobile Service																												
1 448,0	A1A	1000																										
2 500,0	A1A	1000																										
3 6 337,0	F1B	1000																										
4 8 457,0	F1B	1000																										
5 12 682,5	F1B	1000																										
6 17 184,8	F1B	1000																										
7 2 182,0	J3E	1000																										
8 4 357,4	J3E	1000																										
9 6 215,0	J3E	1000																										
10 6 515,5	J3E	1000																										
11 2 187,5	F1B	1000																										
12 2 174,5	F1B	1000																										
13 4 207,5	F1B	1000																										
14 6 312,0	F1B	1000																										
15 8 414,5	F1B	1000																										
16 12 577,0	F1B	1000																										
17 16 804,5	F1B	1000																										
VHF Service																												
18 Channel-16	G3E	D																										
19 Channel-20	G3E	25																										
20 Channel-22	G3E	25																										
21 Channel-70	G3E	50																										
Fix Service																												
22 5 316,0	J3E	1000																										
23 10 300,0	J3E	1000																										
24 14 410,0	F1B	1000																										



APPROVED BY JICA
 DRAWN BY AAB

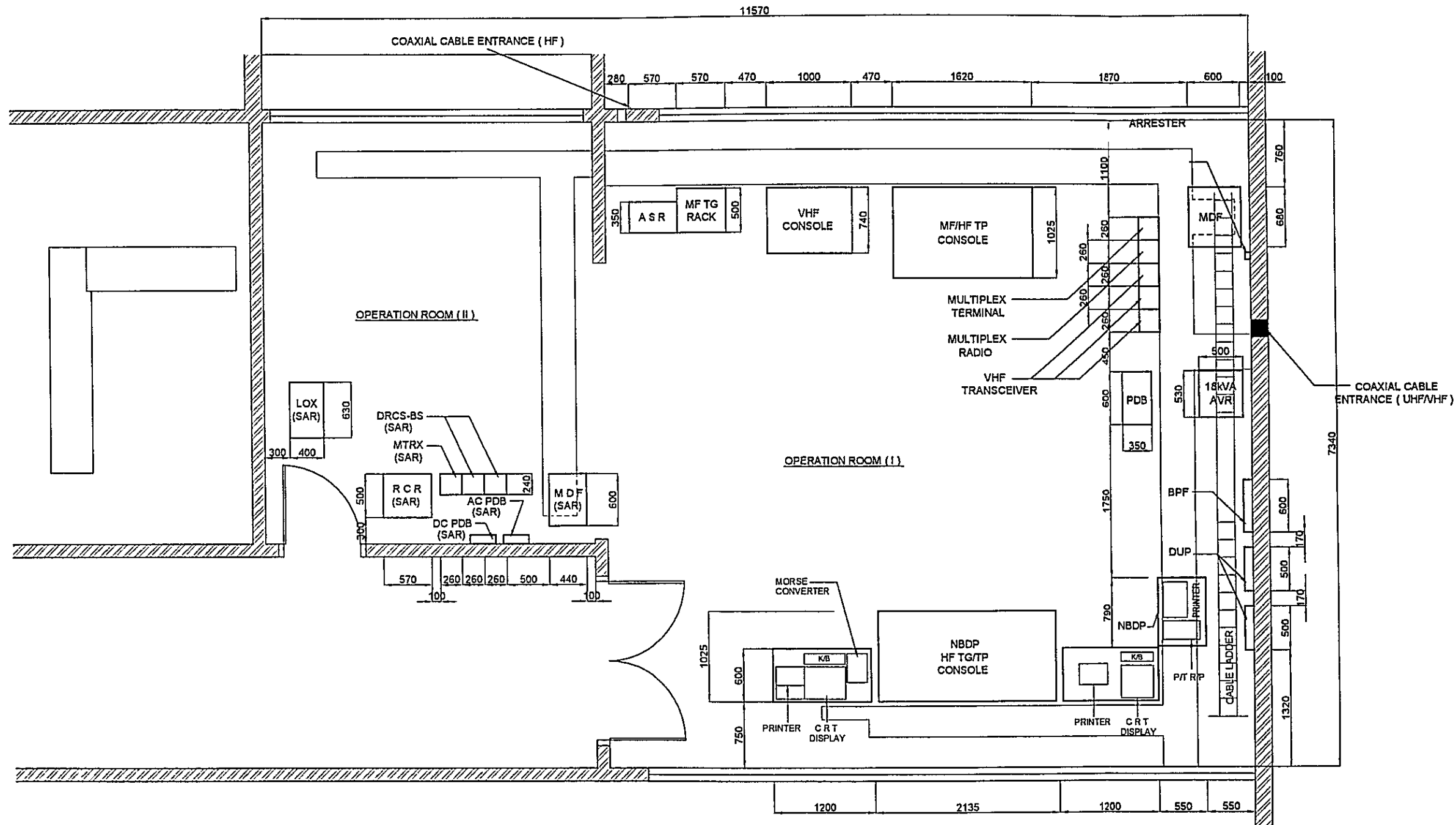
DATE	DRAWING TITLE	SHEET NO
July 03, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 50,000	DUMAI	
DIMENSION	DRAWING NO	
Meter	S, R, O, P, - D, U, M, - 0, 2, 6, - 1	
JICA	PT. Aneka Asia Buana	



DRAWN BY AAB

APPROVED BY JICA.

DATE June 20, 2001	DRAWING TITLE ANTENNA LAYOUT FOR RX STATION	SHEET NO. 1/1
SCALE 1 : 500	SITE NAME DUMAI	
DIMENSION Millimeter	DRAWING NO S, R, O, P, - D, U, M, - 0, 2, 6, - 2, R	
- PT. Aneka Asia Buana		

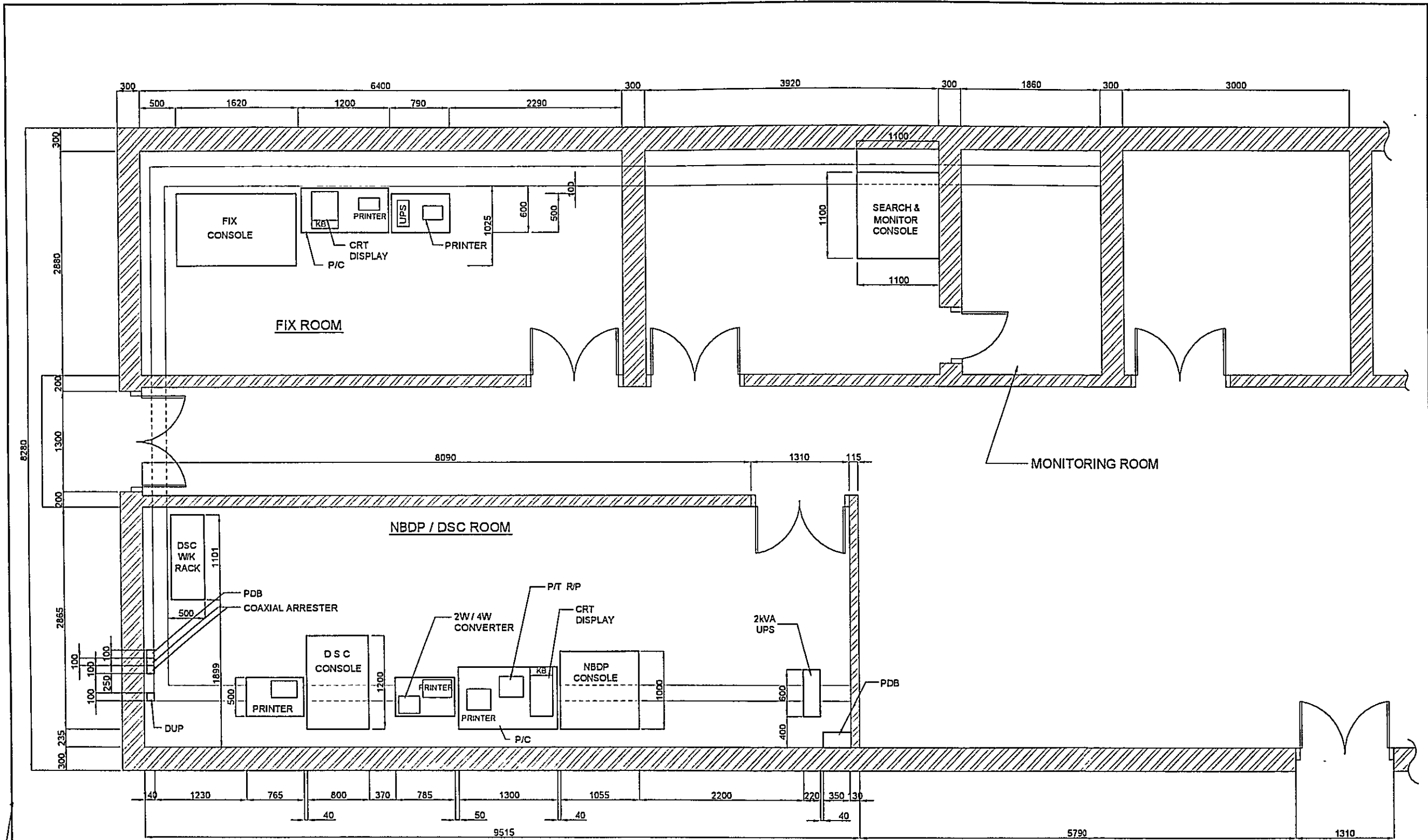


LEGEND

- | | |
|-----------------------------------|--|
| ASR : ANTENNA SWITCH RACK | NBDP : NARROW - BAND DIRECT - PRINTING |
| AVR : AUTOMATIC VOLTAGE REGULATOR | PDB : POWER DISTRIBUTION BOARD |
| BPF : BAND PASS FILTER | P/T R/P : PAPER TAPE READER/PUNCHER |
| DUP : DUPLEXER | RCR : REMOTE CONTROL RACK |
| HF : HIGH FREQUENCY | TG : TELEGRAPHY |
| KVA : KILO VOLT AMPERE | TP : TELEPHONY |
| MF : MEDIUM FREQUENCY | UHF : ULTRA HIGH FREQUENCY |
| MDF : MAIN DISTRIBUTION FRAME | |

DATE June 20, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT FOR RX STATION	SHEET NO 1 / 2
SCALE 1 : 50	SITE NAME DUMAI	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - , D, U, M, - , 0, 2, 6, - , 3, R	
-		

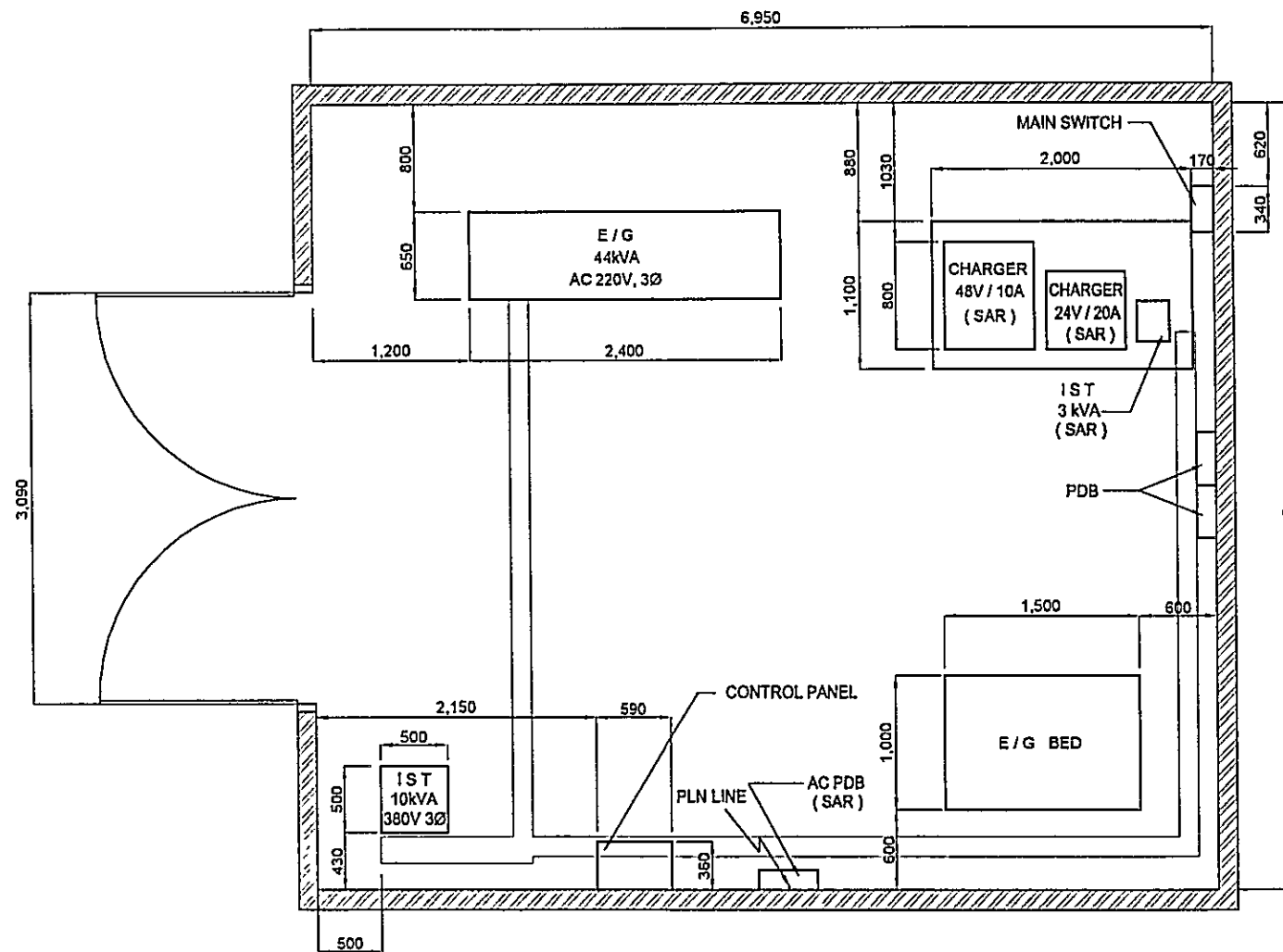
DRAWN BY AAG
 APPROVED BY JICA



- LEGEND**
- DUP : DUPLEXER
 - DSC : DIGITAL SELECTIVE CALLING
 - FIX : FIX COMMUNICATION
 - kVA : KILO VOLT AMPERE
 - NBDP : NARROW - BAND DIRECT - PRINTING
 - PDB : POWER DISTRIBUTION BOARD
 - UPS : UNINTERRUPTED POWER SUPPLY
 - W : WATT

DATE June 20, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT FOR RX STATION	SHEET NO 2 / 2
SCALE 1 : 50	SITE NAME DUMAI	
DIMENSION Millimeter	DRAWING NO S ₁ R ₁ O ₁ P ₁ -D ₁ U ₁ M ₁ -0 ₁ 2 ₁ 6 ₁ -3 ₁ R	
-		

DRAWN BY AAB
 APPROVED BY JICA



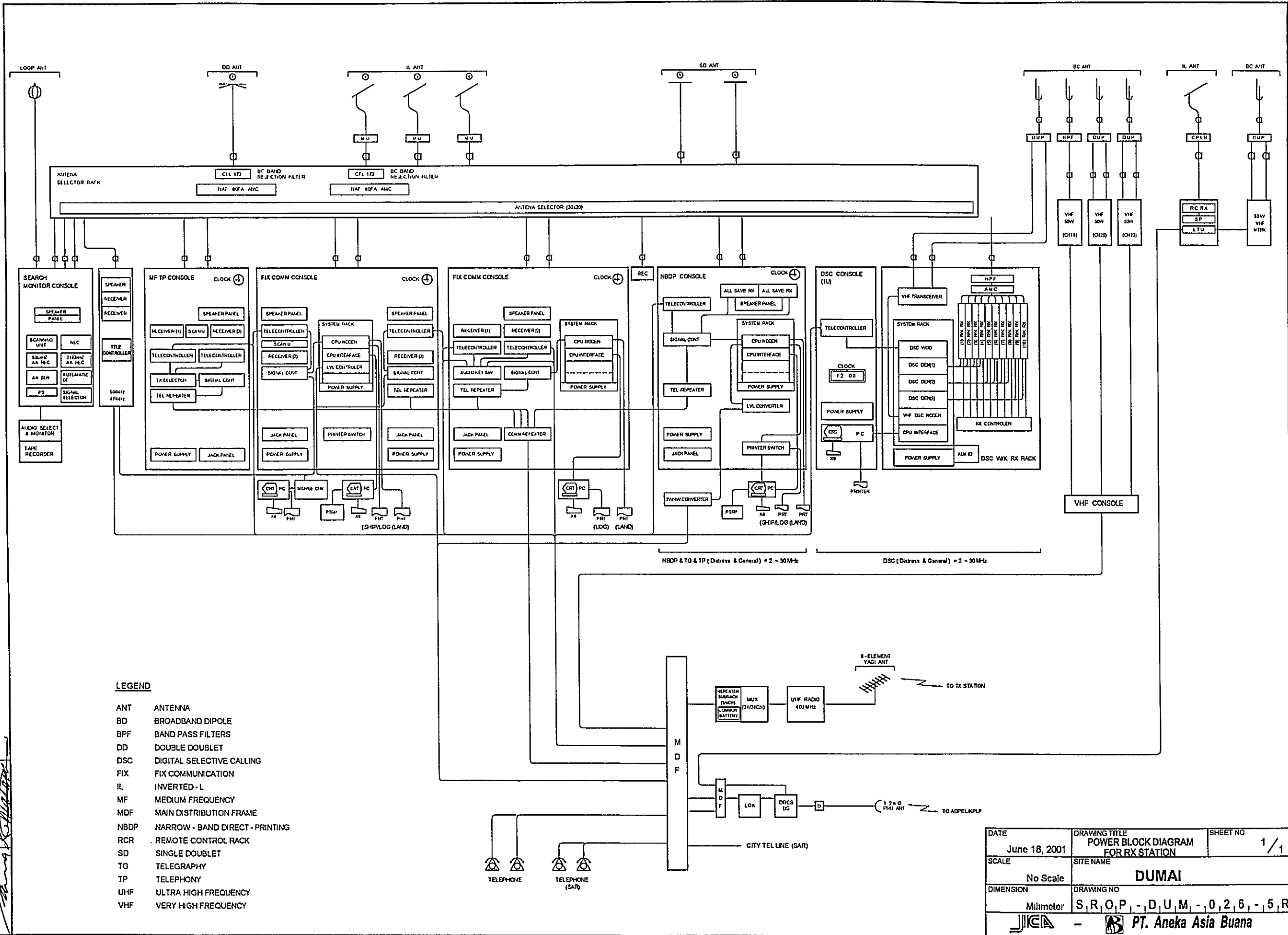
LEGEND

E/G : ENGEINE / GENERATOR
 IST : ISOLATION TRANSFORMER
 KVA : KILO VOLT AMPERE

DATE June 18, 2001	DRAWING TITLE E/G FLOOR LAYOUT FOR RX STATION	SHEET NO 1/1
SCALE 1 : 50	SITE NAME DUMAI	
DIMENSION Millimeter	DRAWING NO S, R, O, P, - D, U, M, - 0, 2, 6, - 4, R	
- PT. Aneka Asia Buana		

DRAWN BY AAB

APPROVED BY JICA



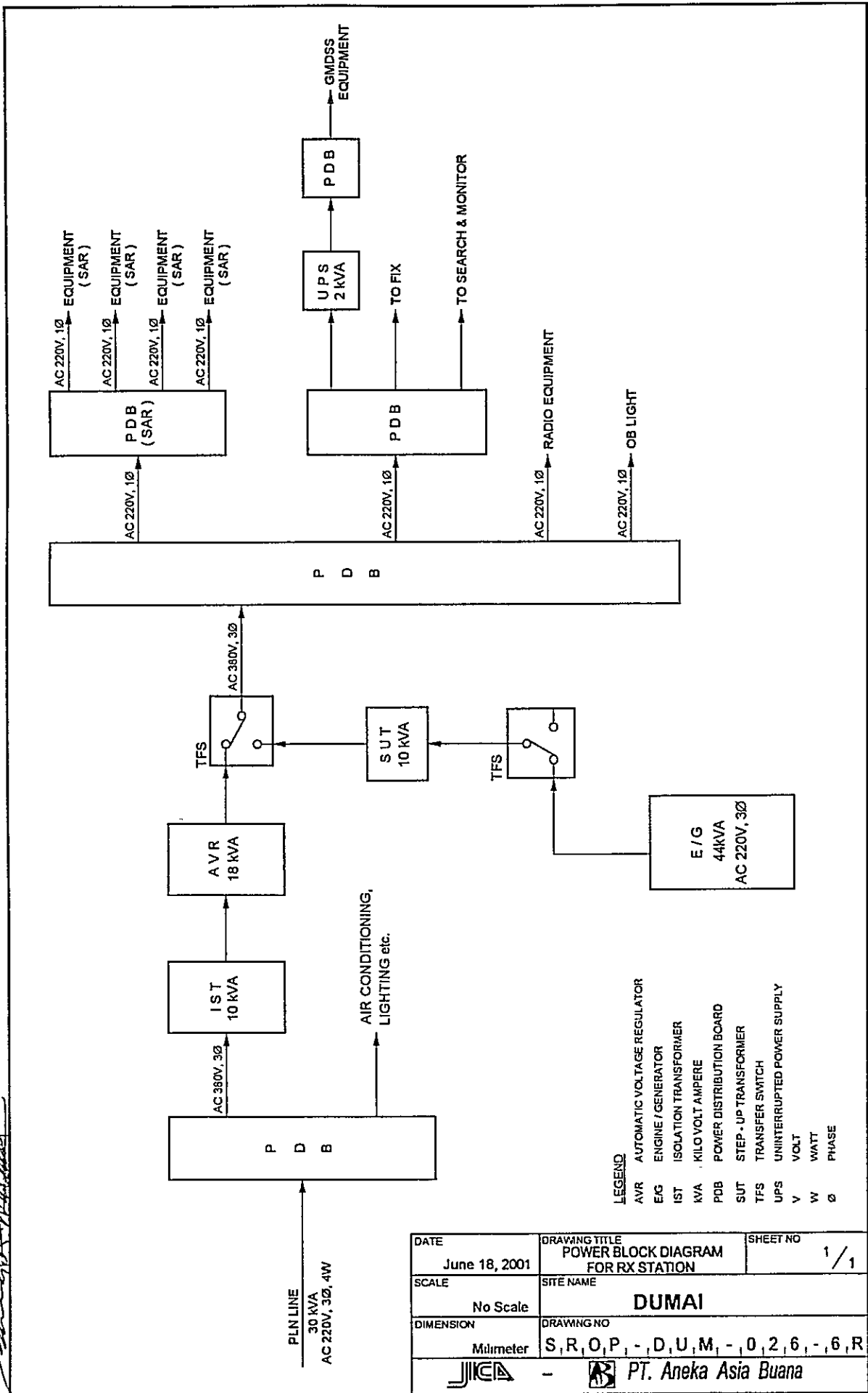
LEGEND

- ANT ANTENNA
- BD BROADBAND DIPOLE
- BPF BAND PASS FILTERS
- DD DOUBLE DOUBLET
- DSC DIGITAL SELECTIVE CALLING
- FIX FIX COMMUNICATION
- IL INVERTED - L
- MF MEDIUM FREQUENCY
- MDF MAIN DISTRIBUTION FRAME
- NBDP NARROW - BAND DIRECT - PRINTING
- RCR REMOTE CONTROL RACK
- SD SINGLE DOUBLET
- TG TELEGRAPHY
- TP TELEPHONY
- UHF ULTRA HIGH FREQUENCY
- VHF VERY HIGH FREQUENCY

DATE June 18, 2001	DRAWING TITLE POWER BLOCK DIAGRAM FOR RX STATION	SHEET NO 1 / 1
SCALE No Scale	SITE NAME DUMAI	
DIMENSION Milimeter	DRAWING NO S, R, O, P, - D, U, M, - 0, 2, 6, - 5, R	

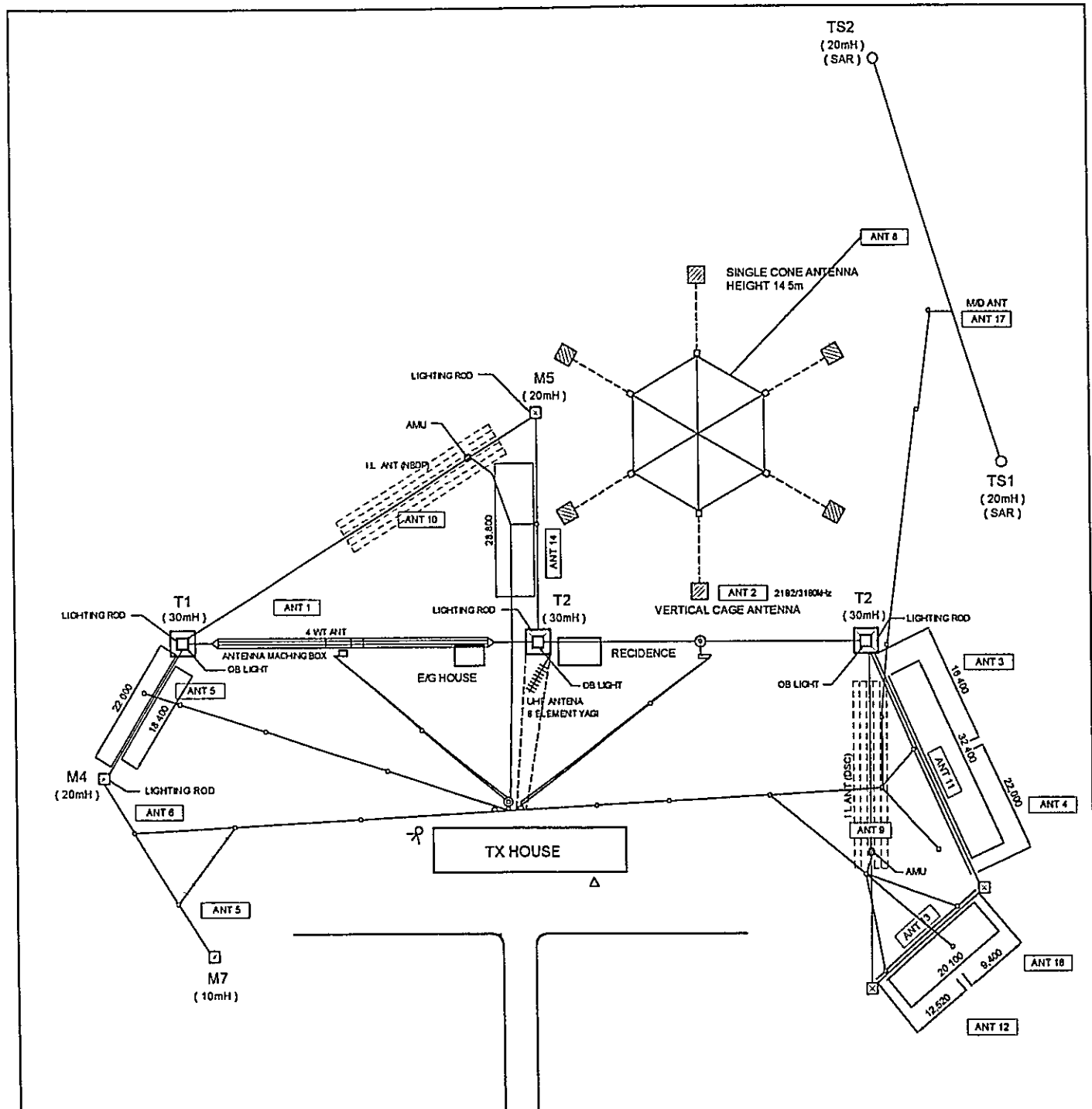
DRAWN BY AAR
 APPROVED BY JICA

DRAWN BY AAR
 APPROVED BY JICA



- LEGEND**
- AVR AUTOMATIC VOLTAGE REGULATOR
 - E/G ENGINE / GENERATOR
 - IST ISOLATION TRANSFORMER
 - kVA KILO VOLT AMPERE
 - PDB POWER DISTRIBUTION BOARD
 - SUT STEP-UP TRANSFORMER
 - TFS TRANSFER SWITCH
 - UPS UNINTERRUPTED POWER SUPPLY
 - V VOLT
 - W WATT
 - Ø PHASE

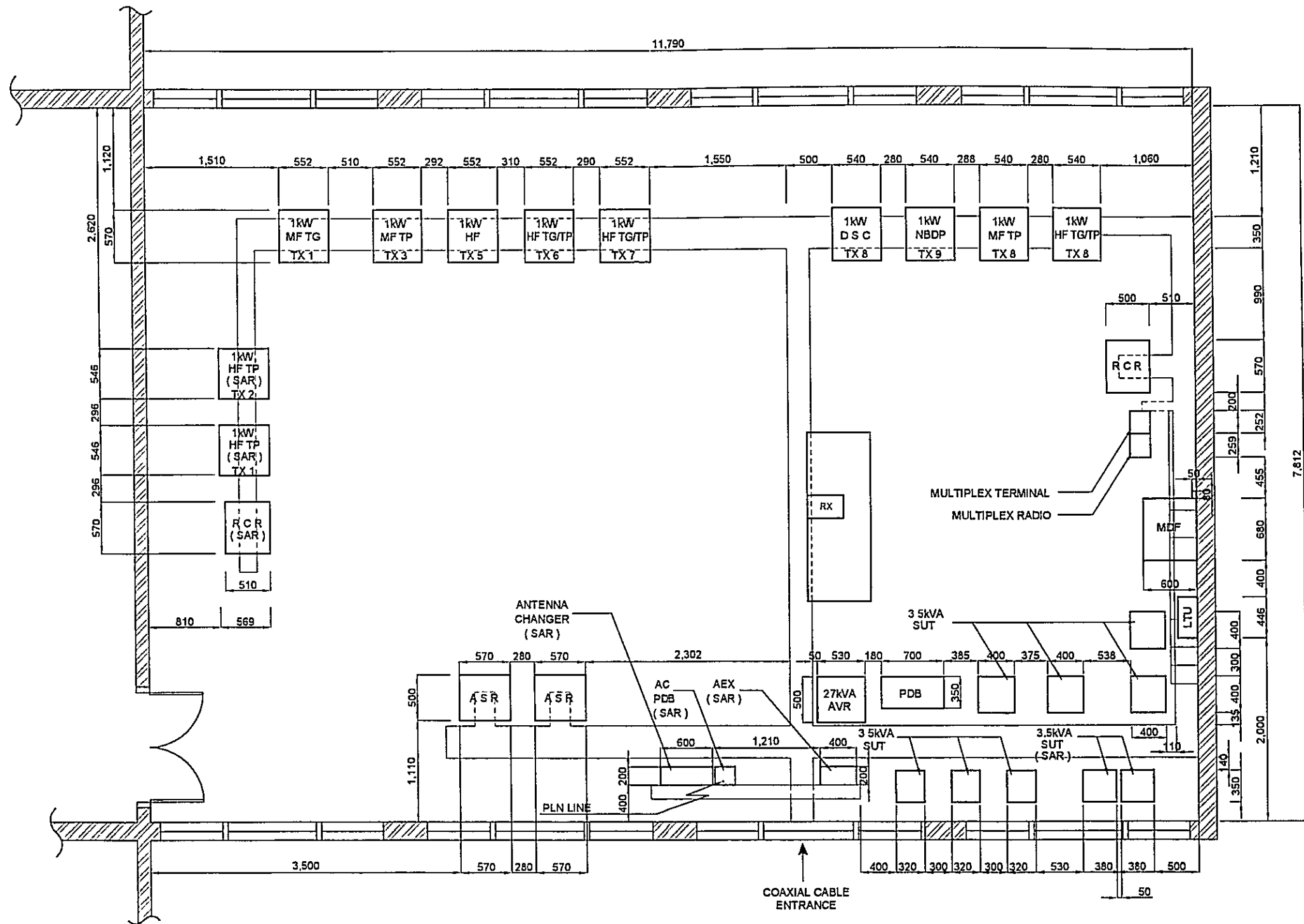
DATE June 18, 2001	DRAWING TITLE POWER BLOCK DIAGRAM FOR RX STATION	SHEET NO 1 / 1
SCALE No Scale	SITE NAME DUMAI	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, D, U, M, -, 0, 2, 6, -, -, 6, R	



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

- LEGEND**
- ANT ANTENNA
 - AMU ANTENNA MATCHING UNIT
 - E/G ENGINE / GENERATOR
 - IL INVERTED L
 - UHF ULTRA HIGH FREQUENCY

DATE June 20, 2001	DRAWING TITLE ANTENNA LAYOUT FOR TX STATION	SHEET NO 1 / 1
SCALE 1 : 1000	SITE NAME DUMAI	
DIMENSION Millimeter	DRAWING NO S, R, O, P, - D, U, M, I - 0, 2, 6, - 2, 1	
-		



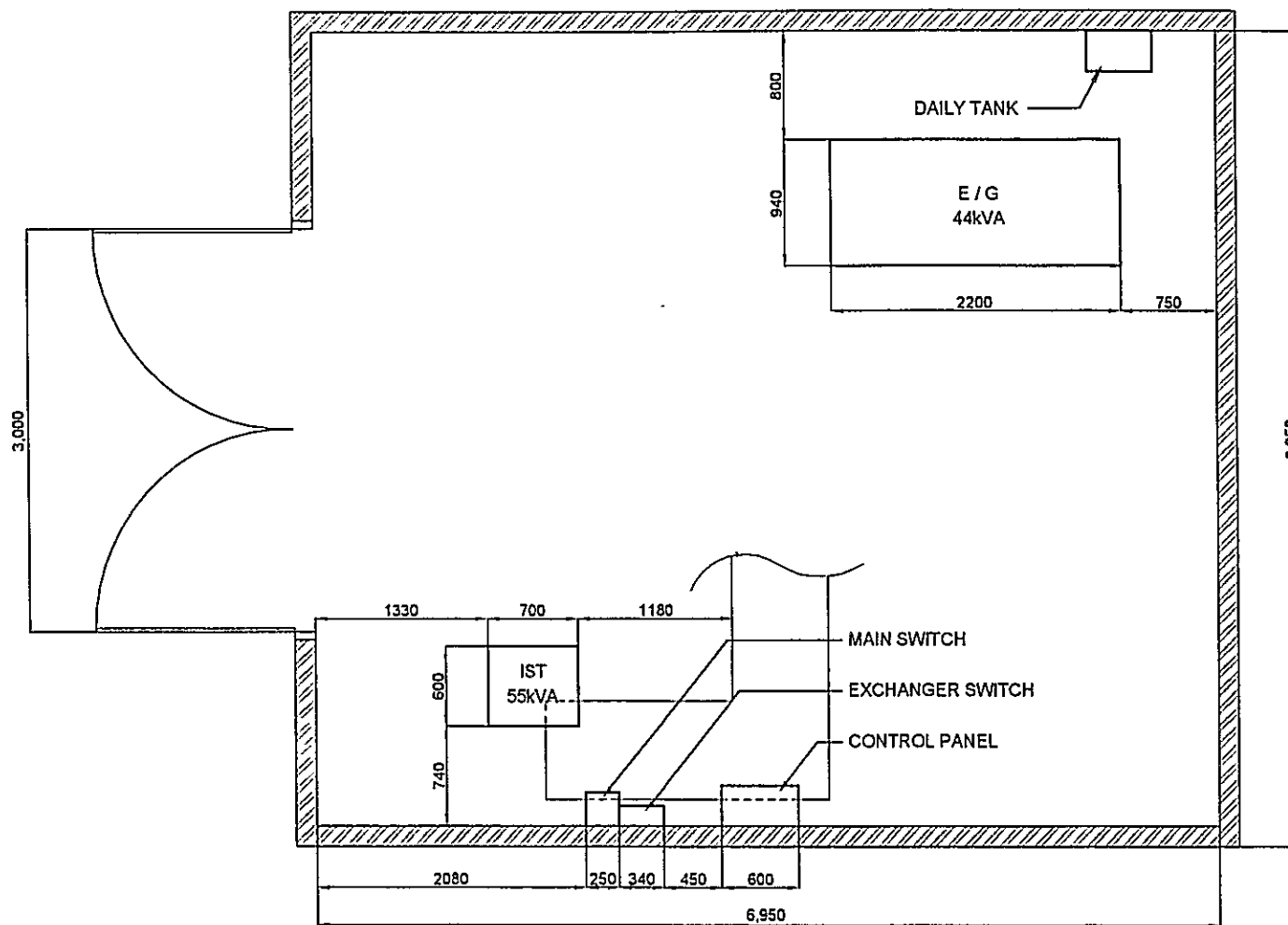
LEGEND

AEX : ANTENNA EXCHANGER
 ASR : ANTENNA SWITCH RACK
 AVR : AUTOMATIC VOLTAGE REGULATOR
 HF : HIGH FREQUENCY
 KW : KILO WATT
 KVA : KILO VOLT AMPERE

LTU : LOCAL TERMINAL UNIT
 MF : MEDIUM FREQUENCY
 MDF : MAIN DISTRIBUTION FRAME
 PDB : POWER DISTRIBUTION BOARD
 RCR : REMOTE CONTROL RACK
 SUT : STEP - UP TRANSFORMER

DATE June 19, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT FOR TX STATION	SHEET NO 1/1
SCALE 1 : 50	SITE NAME DUMAI	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, D, U, M, -, 0, 2, 6, -, 3, T	

DRAWN BY: [Signature] APPROVED BY: JICA

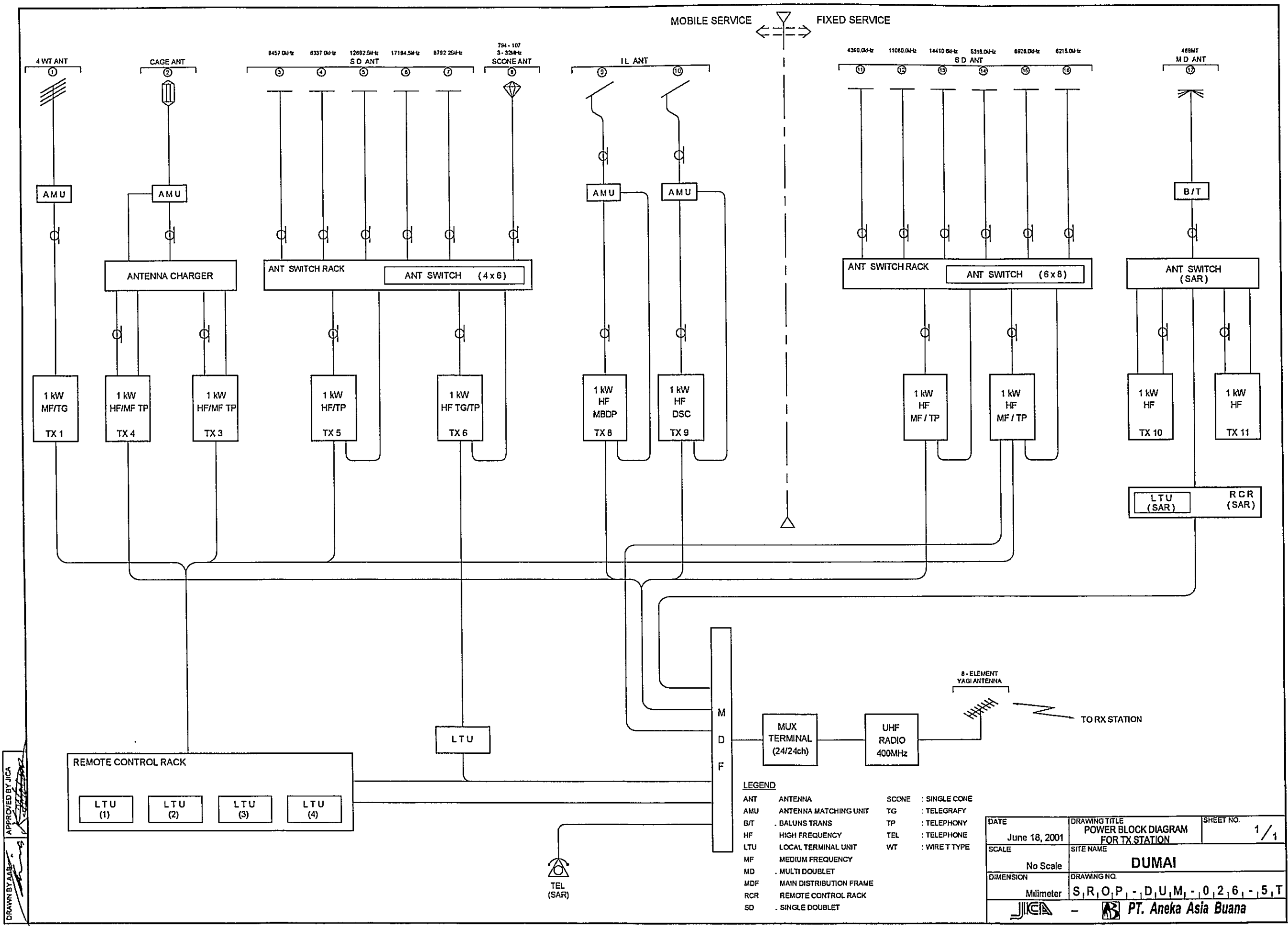


LEGEND

E/G : ENGEINE / GENERATOR
 IST : ISOLATION TRANSFORMER
 KVA : KILO VOLT AMPERE

DATE June 18, 2001	DRAWING TITLE E/G FLOOR LAYOUT FOR TX STATION	SHEET NO 1 / 1
SCALE 1 : 50	SITE NAME DUMAI	
DIMENSION Millimeter	DRAWING NO S, R, O, P, - , D, U, M, - , 0, 2, 6, - , 4, T	
- PT. Aneka Asia Buana		

DRAWN BY AAB
 APPROVED BY JICA



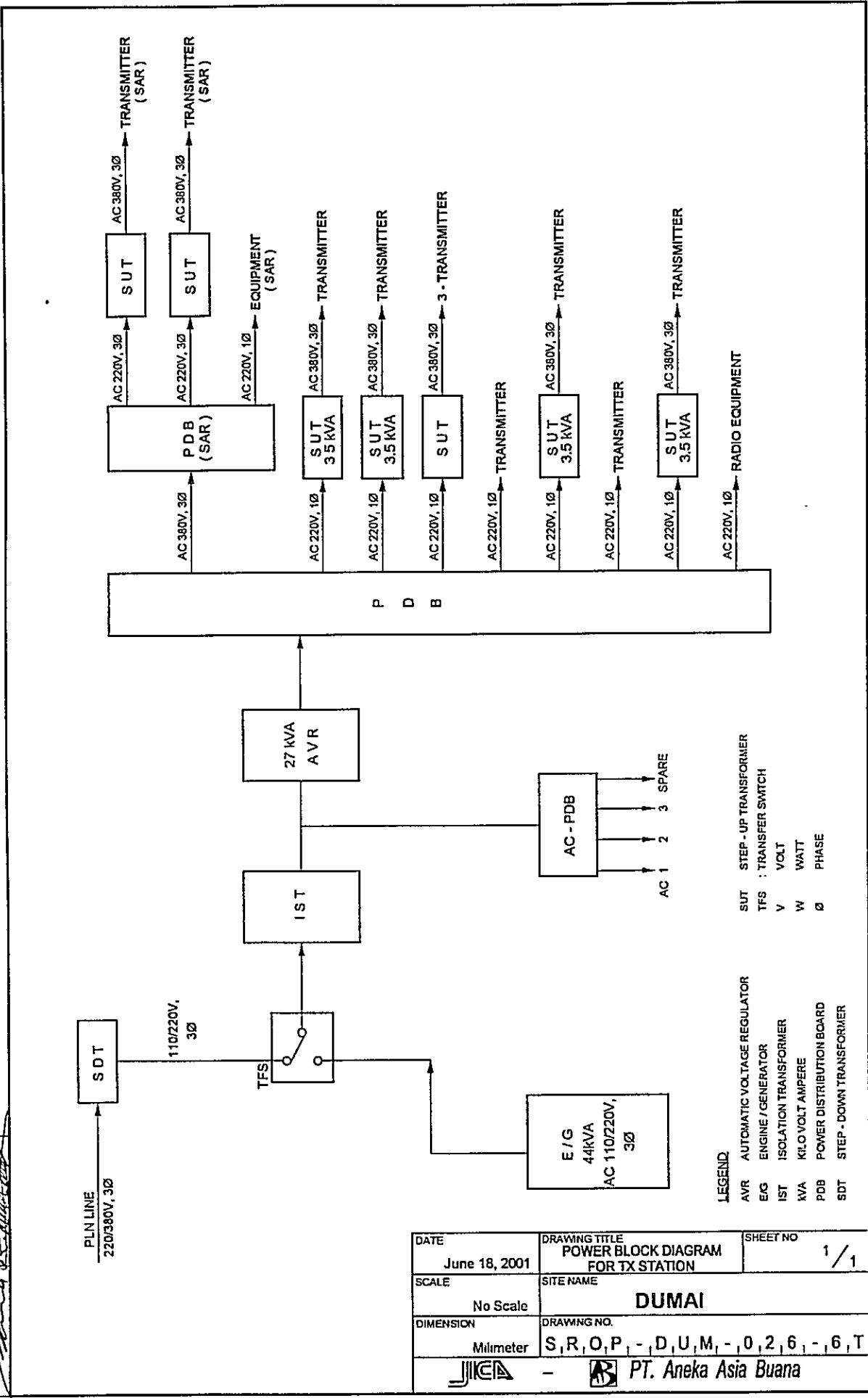
MOBILE SERVICE ← → FIXED SERVICE

- LEGEND**
- ANT : ANTENNA
 - AMU : ANTENNA MATCHING UNIT
 - B/T : BALUNS TRANS
 - HF : HIGH FREQUENCY
 - LTU : LOCAL TERMINAL UNIT
 - MF : MEDIUM FREQUENCY
 - MD : MULTI DOUBLET
 - MDF : MAIN DISTRIBUTION FRAME
 - RCR : REMOTE CONTROL RACK
 - SD : SINGLE DOUBLET
 - SCONE : SINGLE CONE
 - TG : TELEGRAFY
 - TP : TELEPHONY
 - TEL : TELEPHONE
 - WT : WIRE T TYPE

DATE June 18, 2001	DRAWING TITLE POWER BLOCK DIAGRAM FOR TX STATION	SHEET NO. 1/1
SCALE No Scale	SITE NAME DUMAI	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - , D, U, M, - , 0, 2, 6, - , 5, T	

DRAWN BY: A.S.B. APPROVED BY: JICA

DRAWN BY AAB
APPROVED BY JICA



LEGEND

AVR AUTOMATIC VOLTAGE REGULATOR
 E/G ENGINE / GENERATOR
 IST ISOLATION TRANSFORMER
 WA KILO VOLT AMPERE
 PDB POWER DISTRIBUTION BOARD
 SDT STEP - DOWN TRANSFORMER

SUT STEP - UP TRANSFORMER
 TFS TRANSFER SWITCH
 V VOLT
 W WATT
 Ø PHASE

DATE	DRAWING TITLE	SHEET NO
June 18, 2001	POWER BLOCK DIAGRAM FOR TX STATION	1 / 1
SCALE	SITE NAME	
No Scale	DUMAI	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P - D, U, M, - 0, 2, 6, - 6, T	

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

4th-A Class Coast Station Tembilahan (Coast Station No. 27)

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	TEMBILAHAN		
	CLASS	4th-A	NO.	27

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pangeran Hidayat No. 14	0768-23535		103° 09' 41" E	00° 09' 04" S

2. GENERAL CONDITIONS					
Moving from Jakarta		Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Pekanbaru [Taking time: 2.00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	30,000
By Car	to Tembilahan [Taking time: 7.00 hr]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input 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 checked="" 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 checked="" 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"/> Ground Subsidence
<input type="checkbox"/> Valley	<input type="checkbox"/> Sandy		
Altitude	12.00 M	Telephone Lines	
Land area	726.70 m ²	<input checked="" type="checkbox"/> 1 Lines	

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 type="checkbox"/> Operations of E/G	
Type of ceiling	Triplex	kVA		<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	V ± %	Day tank	Liter
Flooring	Tile	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	10 50	Total interpt hours /month	12 Hours	<input type="checkbox"/> Single System	
E / G room		Max. interpt hours at once	24 Hours	<input type="checkbox"/> Dual System	
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow	Repairing			Chief	1			
Examples of major failure	Power Supply			Operator (skilled)	0 0			
Sufficiency of spares	Un-available			Technician (skilled)	0 0			
Records of damages		Environmental Conditions		Administrator				
<input type="checkbox"/> Heavy rainfall		Good	Bad	Total 1				
<input type="checkbox"/> Storm		<input checked="" type="checkbox"/>	<input type="checkbox"/> External noises					
<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 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 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 COAST STATION	SITE	TEMBILAHAN		
	CLASS	4th-A	NO.	27

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

7. COMMENTS	
Suggestion	Request to have ch 70 VHF transceiver.
Remarks	

INVENTORY

Site Name: Tembilahan

TBN-027- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1	1	MF/HF System	IC-M700	01290	ICOM	1990			Good
	2	SSB Transceiver	FS-1200	533-1136	Furuno	1982			Good
1-2	1	VHF System	FM-1400	2732	Furuno	1990			Good
2		Tower & Antenna System							
2-1	1	Antenna System	T			1982			Good
	2	T-Type Antenna	YAGI			1990			Good
2-2	1	VHF Antenna	AT.120		ICOM	1990			Good
		Antenna Switch							
		Antenna Tuner							
3		Power Supply Equipment							
3-1	1	UPS & AVR	FS-8930	183027	VIDEO				
	2	Power Supply			VIDEO				
	3	Power Supply			K'Shima	1990			Good
	4	AVR	1000N		YUASA	1997			Good
	5	Accumulator	N120		YUASA	1997			Good
		Accumulator	N120						
4	1	Measuring Equipment							
		AVO Meter			Sanwa	1990			Good

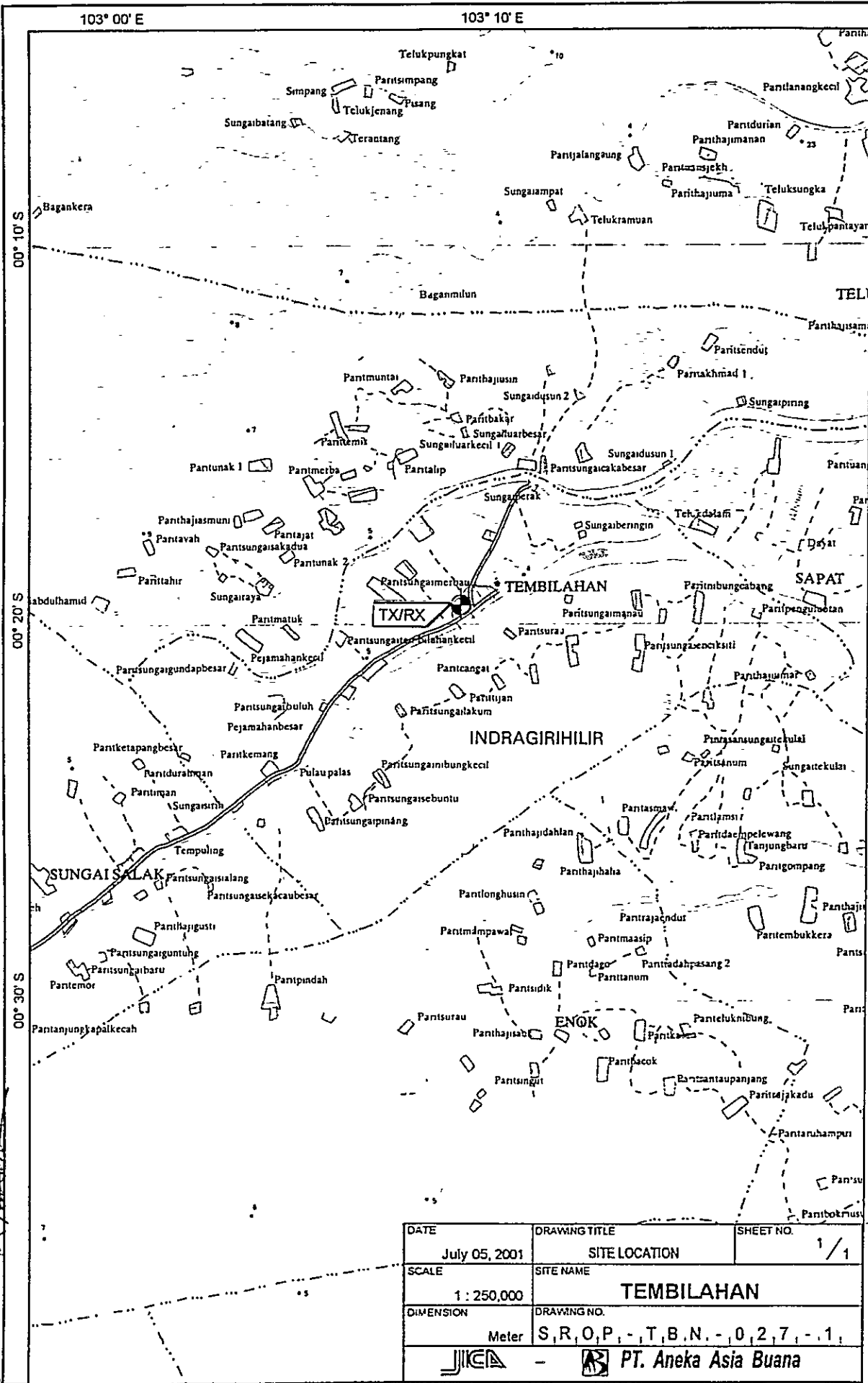
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Tembilaan

TBN-027-(1/1)

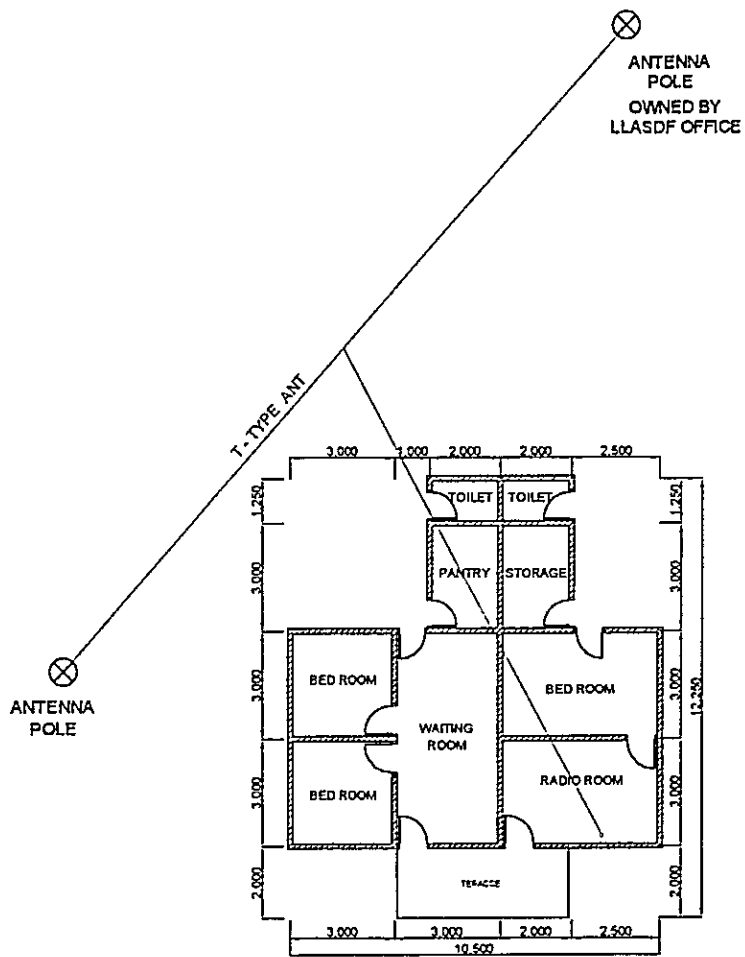
Call Sign : Mobile Service : PKP.45
 Fix Service : 8A03

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mobile Service																												
1	2 182,0	J3E	100																									
2	6 209,0	J3E	100																									
3	6 215,0	J3E	100																									
4	6 510,0	J3E	100																									
VHF Service																												
5	Channel -12	G3E	100																									
6	Channel -14	G3E	100																									
7	Channel -16	G3E	100																									
8	Channel -20	G3E	100																									
9	Channel -22	G3E	100																									
Fix Service																												
10	4 055,0	J3E	100																									
11	5 316,0	J3E	100																									
12	6 926,0	J3E	100																									
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												
21																												
22																												
23																												



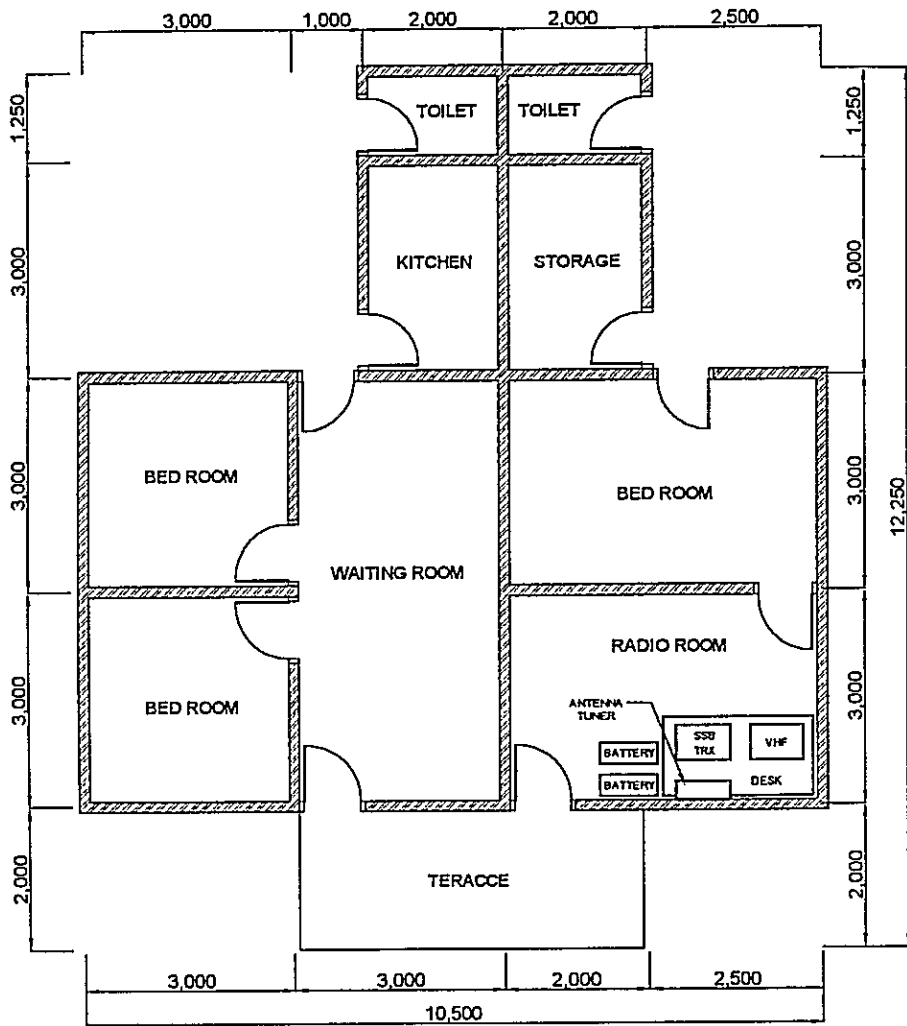
DRAWN BY: A.B.B.
 APPROVED BY: JICA

DATE	DRAWING TITLE	SHEET NO.
July 05, 2001	SITE LOCATION	1/1
SCALE	SITE NAME	
1 : 250,000	TEMBILAHAN	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - T, B, N. - 0, 2, 7, - 1	



DRAWN BY: AAB
 APPROVED BY: JICA

DATE June 14, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1 / 1
SCALE 1 : 100	SITE NAME TEMBILAHAN	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, T, B, N, -. . 0, 2, 7, -. . 2.	
- PT. Aneka Asia Buana		



DRAWN BY AAB

APPROVED BY JICA

LEGEND
 TRX TRANSCEIVER
 VHF : VERY HIGH FREQUENCY

DATE June 14, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 100	SITE NAME TEMBILAHAN	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, - T, B, N, - 0, 2, 7, - 3,	
- PT. Aneka Asia Buana		

T-TYPE ANT



ANTENNA
TUNER

MF/HF
SSB

TRX

YAGI ANT



ANTENNA
TUNER

VHF



TRX

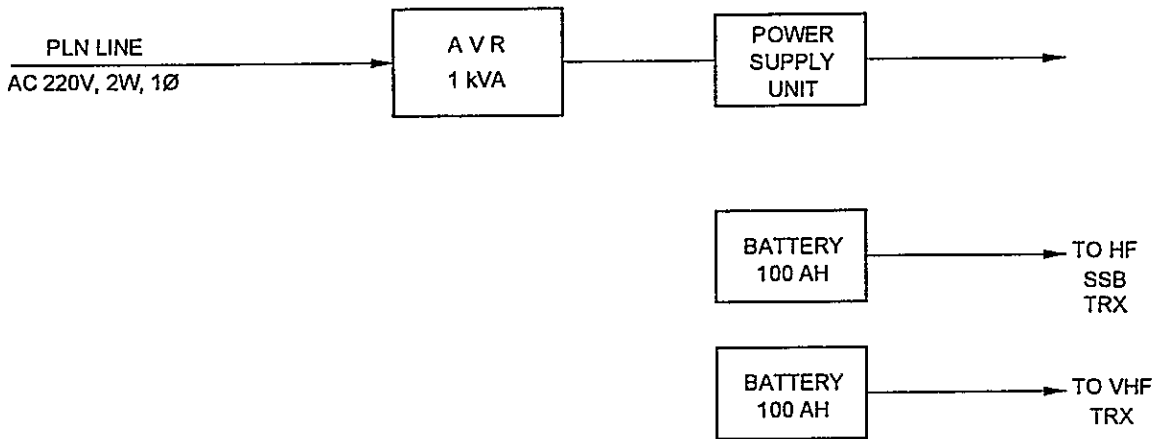
LEGEND

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

APPROVED BY JICA.

DRAWN BY AAB.

DATE June 14, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME TEMBILAHAN	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, T, B, N, -, 0, 2, 7, -, 5,	
 -  PT. Aneka Asia Buana		



LEGEND

AVR . AUTOMATIC VOLTAGE REGULATOR
 HF . HIGH FREQUENCY
 TRX . TRANSCIVER (ING)
 VHF . VERY HIGH FREQUENCY

APPROVED BY JICA
 DRAWN BY AAB

DATE June 14, 2001	DRAWING TITLE POWER BLOCK DIAGRAM	SHEET NO 1 / 1
SCALE No Scale	SITE NAME TEMBILAHAN	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, T, B, N, -, 0, 2, 7, -, 6, 1	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Bagan Siapi-API (Coast Station No. 28)

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	BAGAN SIAPI-API		
	CLASS	4th-A	NO	28

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Syahbandar No 4/B			100° 48' 10" E	02° 09' 45" N

2. GENERAL CONDITIONS					
	Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Pekanbaru Baru [Taking time 2.00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input checked="" type="checkbox"/> Hotel	30,000
By Car	to BSA [Taking time 4.00 hr]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input 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 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 checked="" 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	10 00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input 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	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	Wooden Board	kVA	3	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	V ± %		Day tank
Flooring	Tile	Availability of power per day		24 Hours	Main tank
Room Area (m ²)		Power interruption /month		5 Times	E/G Stand-by System
Operation room	29 00	Total interpt hours /month		20 Hours	<input checked="" type="checkbox"/> Single System
E / G room	16.00	Max interpt hours at once		12 Hours	<input type="checkbox"/> Dual System
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow	Repairing			Chief	1			
Examples of major failure	Power Supply			Operator (skilled)	0 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 1				
<input checked="" type="checkbox"/> Lightning	SSB Transceiver		<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	SKO Dumai 1985 -				
3 Measuring eqpt /tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" 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 checked="" type="checkbox"/> Skilled	<input type="checkbox"/> Not so bad	<input type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	BAGAN SIAPI-API		
	CLASS	4th-A	NO	28

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

7. COMMENTS	
Suggestion	Request to have ch.70 VHF transceiver
Remarks	

INVENTORY

Site Name: Bagan Siapi-api

BSA-028- (1 / 1)

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter							
1		SSB Transceiver	FS-1200	533-1134	Furuno	1984			Damaged
2		Tower & Antenna System							
2-1		Antenna System							
1		Dipole Antenna				1984			Good
3		Power Supply Equipment							
3-1		UPS & AVR							
1		Battery 12V/120AH				1993			Good
2		Battery Charger		TA-2200E	Yuasa Tosy	1984			Good
3-2		Engine Generator							
1		Engine 6 PK	TF 65H-DI	05200-51111	Yanmar	1996			Good
2		Generator 3kVA	ST-3 TH	60481	Huafa	1996			Good
4		Others							
1		Air Conditioner 2 PK		CU-1803	National	1996			Good

STATUS OF TROUBLES

SITE NAME : BAGAN SIAPI-API

BSA-28-(1/1)

Item / Equipment	SSB Transceiver / -			
Manufacturer	Japan			
Manufacturer in year	1984			
Defective panel / unit	-			
Details of Trouble Status	Cause doe to:		Urgency of Repair	
	<input checked="" type="checkbox"/> Aging			
	<input checked="" type="checkbox"/> Lightning			
	<input checked="" type="checkbox"/> Corrosion			
	<input checked="" type="checkbox"/> Lack of Spares			
	<input type="checkbox"/> Others			
Repairing to be:				
<input 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>				
Regarding the equipment has been aged and damaged; We request for new All Band SSB Transceiver				

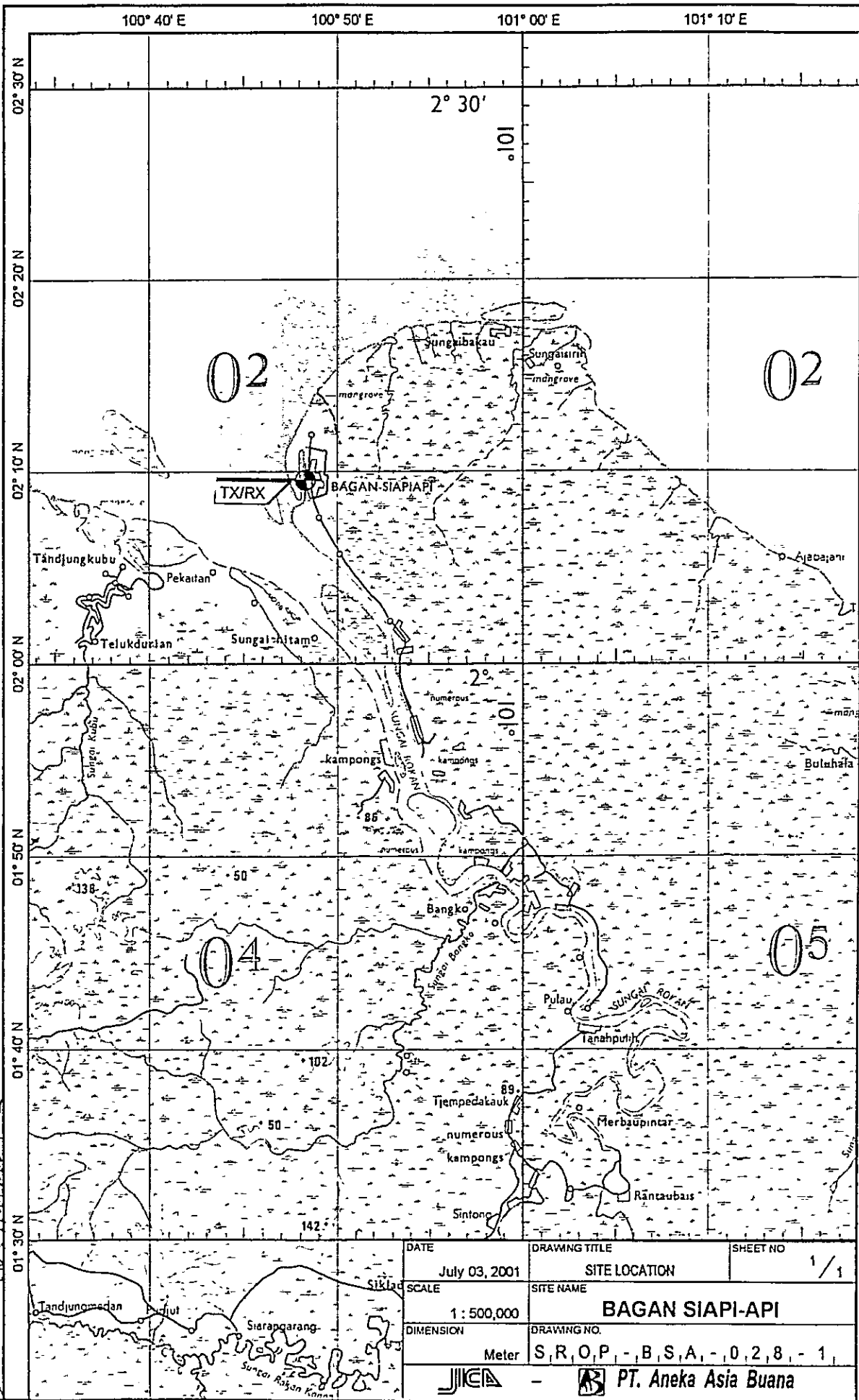
OPERATION SCHEDULE (FREQUENCIES)

Site Name: Bagan Siapi-api

BSA-028-(1/1)

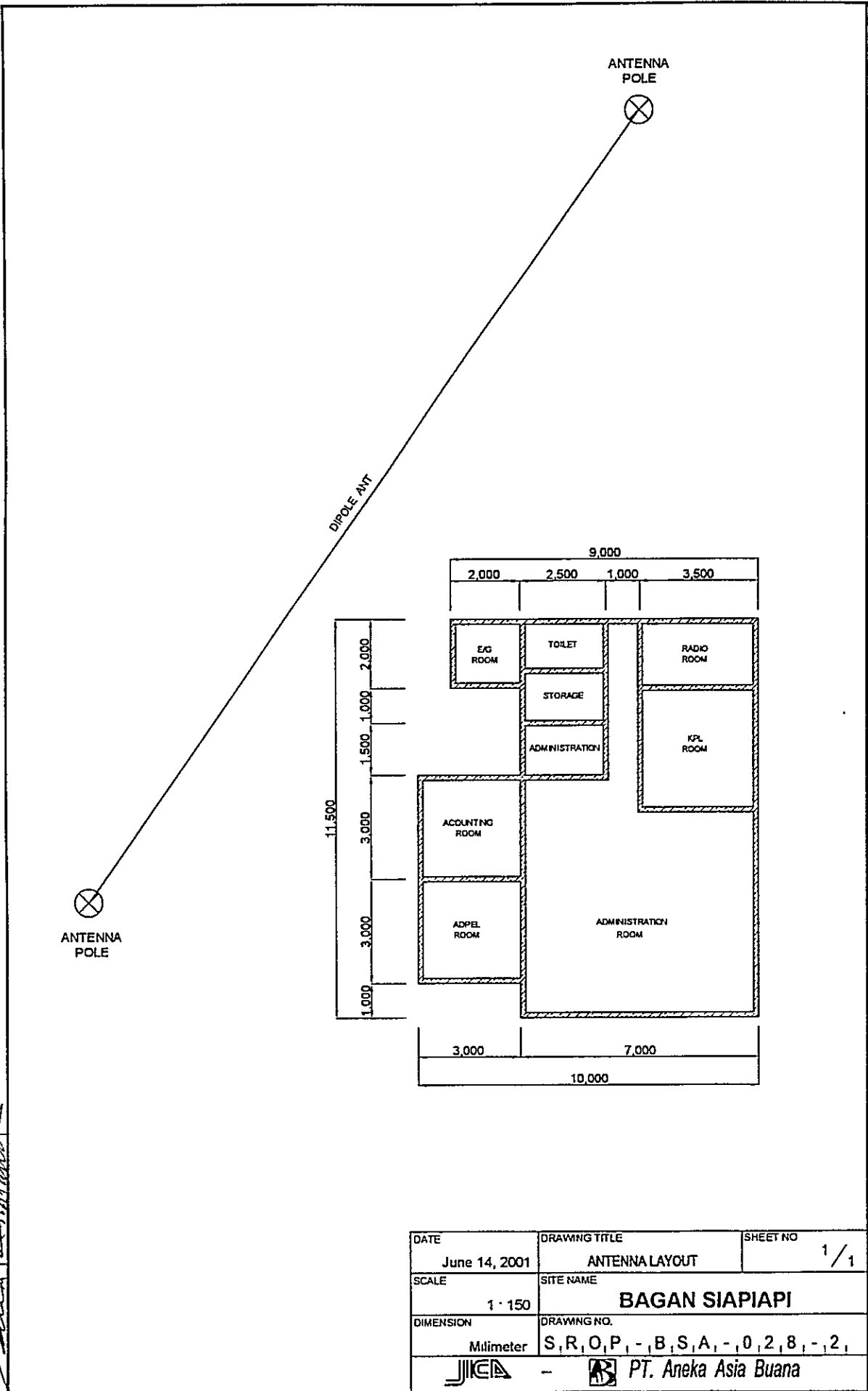
Call Sign : Mobile Service PKP 60
Fix Service . 8A05

FREQ (kHz)	EMISSION	POWER (W)	UTC																								REMARK
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Fix Service 5 316.0	J3E	100																									
1																											
2																											
3																											
4																											
5																											
6																											
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APPROVED BY JICA
 DRAWN BY AAB

DATE	DRAWING TITLE	SHEET NO
July 03, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 : 500,000	BAGAN SIAPI-API	
DIMENSION	DRAWING NO.	
Meter	S, R, O, P, - B, S, A, - 0, 2, 8, - 1	

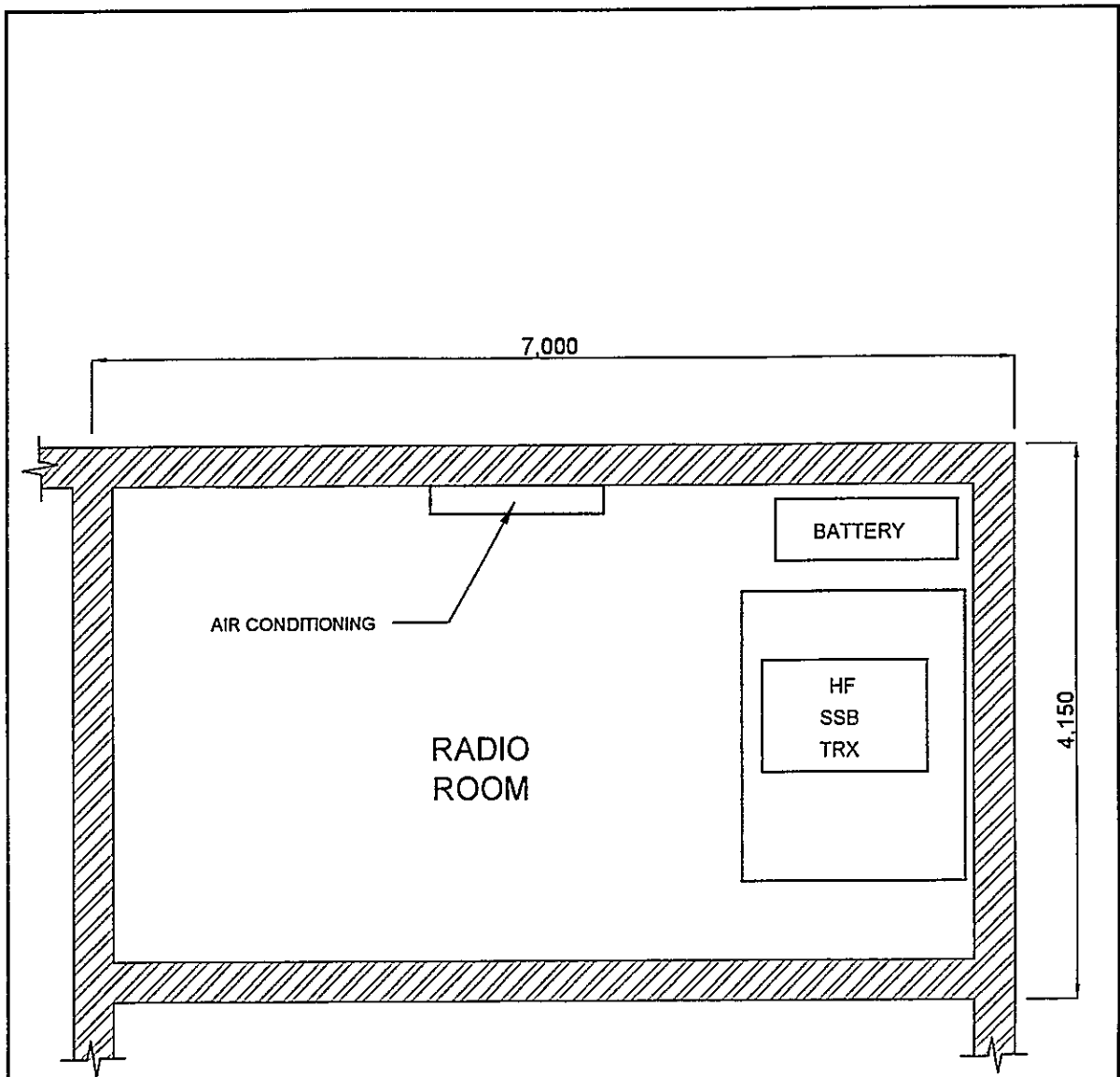


DRAWN BY AAB

APPROVED BY JICA

[Signature]

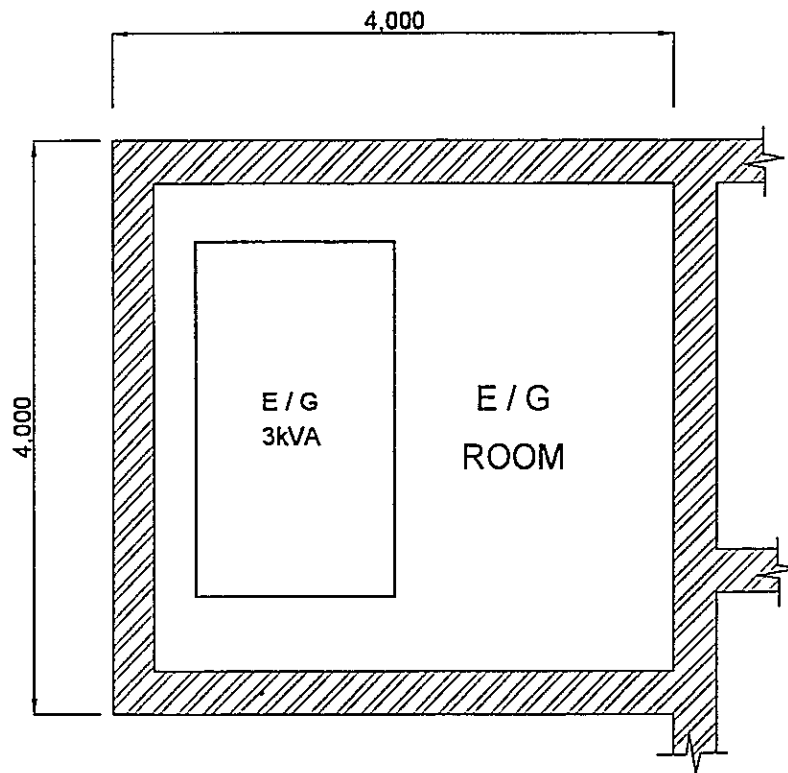
DATE	DRAWING TITLE	SHEET NO
June 14, 2001	ANTENNA LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 150	BAGAN SIAPIAPI	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, - B, S, A, - 0, 2, 8, - 2, 1	
- PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA

LEGEND
 HF HIGH FREQUENCY
 TRX : TRANSCEIVER (ING)

DATE June 14, 2001	DRAWING TITLE EQUIPMENT FLOOR LAYOUT	SHEET NO 1 / 1
SCALE 1 : 50	SITE NAME BAGAN SIAPIAPI	
DIMENSION Milimeter	DRAWING NO. S, R, O, P, -, B, S, A, -, 0, 2, 8, -, 3,	
- PT. Aneka Asia Buana		



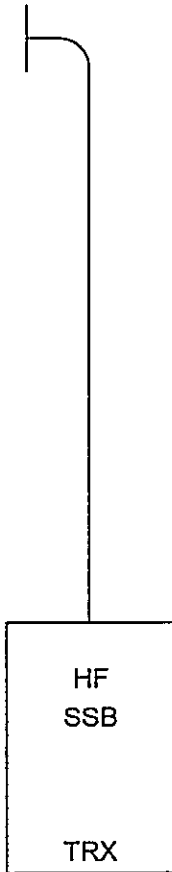
DRAWN BY AAR
 APPROVED BY JICA

LEGEND

E/G : ENGINE GENERATOR
 KVA : KILO VOLT AMPERE

DATE	DRAWING TITLE	SHEET NO
June 14, 2001	E/G FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 25	BAGAN SIAPIAPI	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, B, S, A, -, 0, 2, 8, -, 4, 1	
PT. Aneka Asia Buana		

DIPOLE ANT



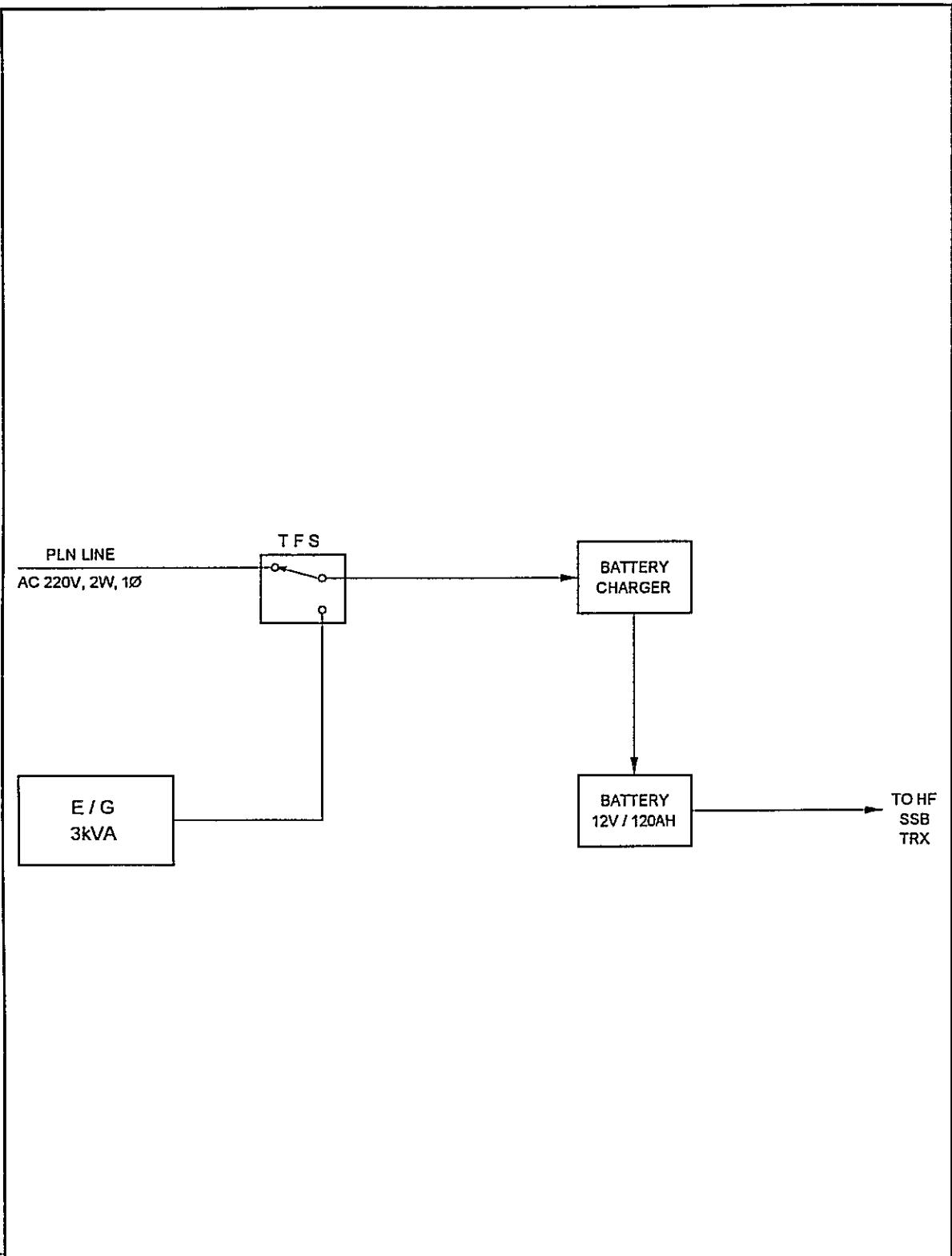
APPROVED BY JICA

DRAWN BY ABB

LEGEND

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

DATE June 14, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO 1/1
SCALE No Scale	SITE NAME BAGAN SIAPIAPI	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, B, S, A, -, 0, 2, 8, -, 5,	
JICA - PT. Aneka Asia Buana		



DRAWN BY AAB
 APPROVED BY JICA

- LEGEND**
- E/G ENGINE GENERATOR
 - HF HIGH FREQUENCY
 - KVA · KILO VOLT AMPERE
 - TFS · TRANSFER SWITCH
 - TRX : TRANSCEIVER (ING)
 - V : VOLT
 - W : WIRE
 - Ø : PHASE

DATE	DRAWING TITLE	SHEET NO
June 14, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	BAGAN SIAPIAPI	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, B, S, A, -, 0, 2, 8, -, 6, 1	
- PT. Aneka Asia Buana		

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

4th-A Class Coast Station Panipahan (Coast Station No. 29)

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	PANIPAHAN		
	CLASS	4th-A	NO	29

1. LOCATION					
Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Bakti No 11			100° 20' 50" E	02° 28' 10" N

2. GENERAL CONDITIONS					
	Moving from Jakarta	Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Pekanbaru [Taking time 2.00 hr]	<input type="checkbox"/> Highway	<input type="checkbox"/> Heavy	<input type="checkbox"/> Hotel	20,000
By Car	to BSA [Taking time 4.00 hr]	<input checked="" type="checkbox"/> Paved	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Motel	
By Ship	to Panipahan [Taking time 6.00 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 type="checkbox"/> Flat	<input type="checkbox"/> Dry soil	<input type="checkbox"/> Limestone	<input type="checkbox"/> Flood	Yes	No
<input checked="" 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 checked="" 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	10 00 M		Telephone Lines	<input checked="" type="checkbox"/>	<input 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	V	Good Bad	
Structure	Wooden	Phase		<input type="checkbox"/>	<input type="checkbox"/> Power Supply System
Type of roof	Zinc	Wire		<input type="checkbox"/>	<input type="checkbox"/> Operations of E/G
Type of ceiling	Triplex	kVA		<input type="checkbox"/>	<input type="checkbox"/> Operations of AVR
Type of wall	Wooden	Quality of PLN source		Capacity of fuel for engine	
Wall finish	Painting	Fluctuations	V ± %	Day tank	Liter
Flooring	Wooden Board	Availability of power per day	Hours	Main tank	k Liter
Room Area (m ²)		Power interruption /month	Times	E/G Stand-by System	
Operation room	6 00	Total interpt. hours /month	Hours	<input type="checkbox"/>	Single System
E / G room		Max interpt. hours at once	Hours	<input type="checkbox"/>	Dual System
Remark					

4. OPERATION AND MAINTENANCE				5. PERSONNEL FORMATIONS				
Actions taken in equipment failure				TX/RX				
Restoration flow		Maintenance		Chief	1			
Examples of major failure		Power Supply		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"/>	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	Oru	Oru	Medan	1999	
3 Measuring eqpt /tools	<input type="checkbox"/> Enough	<input type="checkbox"/> Reasonable	<input checked="" 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 type="checkbox"/> Not capable					

SUMMARY OF COAST STATION	SITE	PANIPAHAN		
	CLASS	4th-A	NO.	29

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

7. COMMENTS	
Suggestion	Request for new All Band SSB Transceiver and DSC VHF Ch 70 Multi System
Remarks	

INVENTORY

Site Name: Panipahan

PNH-029- (1 / 1)

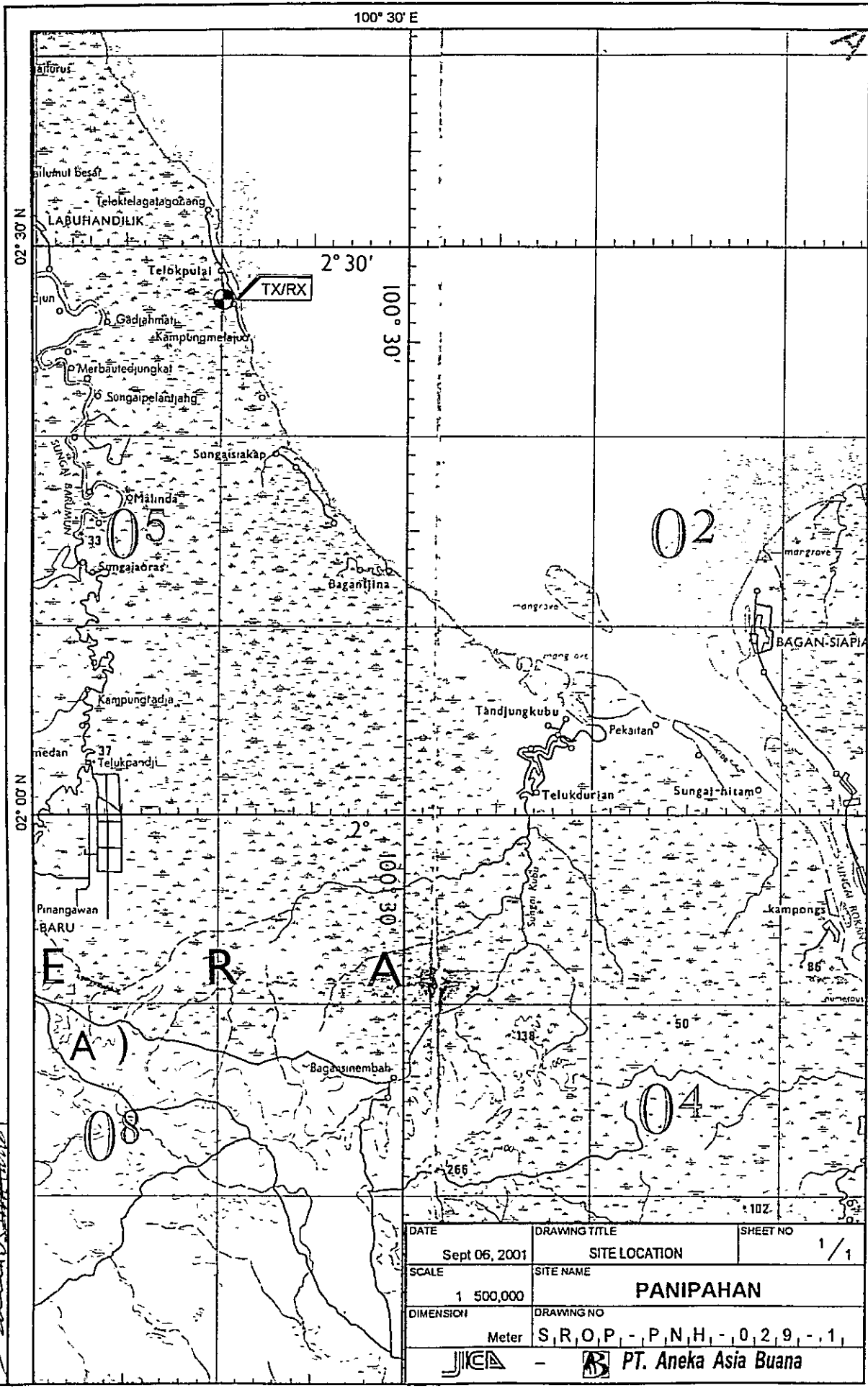
No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		Radio Equipment							
1-1		Transmitter							
1		SSB Radio	FS-1200	533-1636	Furuno	1984			Good
2		Tower & Antenna System							
2-1		Antenna System							
1		Dipole Antenna				1984			Good
3		Power Supply Equipment							
3-1		UPS & AVR							
1		Battery 12V/200AH	N 200		Yuasa	1992			Good

Site Name: Panipahan

**OPERATION SCHEDULE
(FREQUENCIES)**

Call Sign : Mobile Service · PKP 59
Fix Service :

	FREQUENCY (kHz)	EMISSION	POWER (W)	UTC																								REMARK
				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	5 316,0	J3E	100																									
2	6 926,0	J3E	100																									
3																												
4																												
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100° 30' E

02° 30' N

2° 30'

100° 30'

02° 00' N

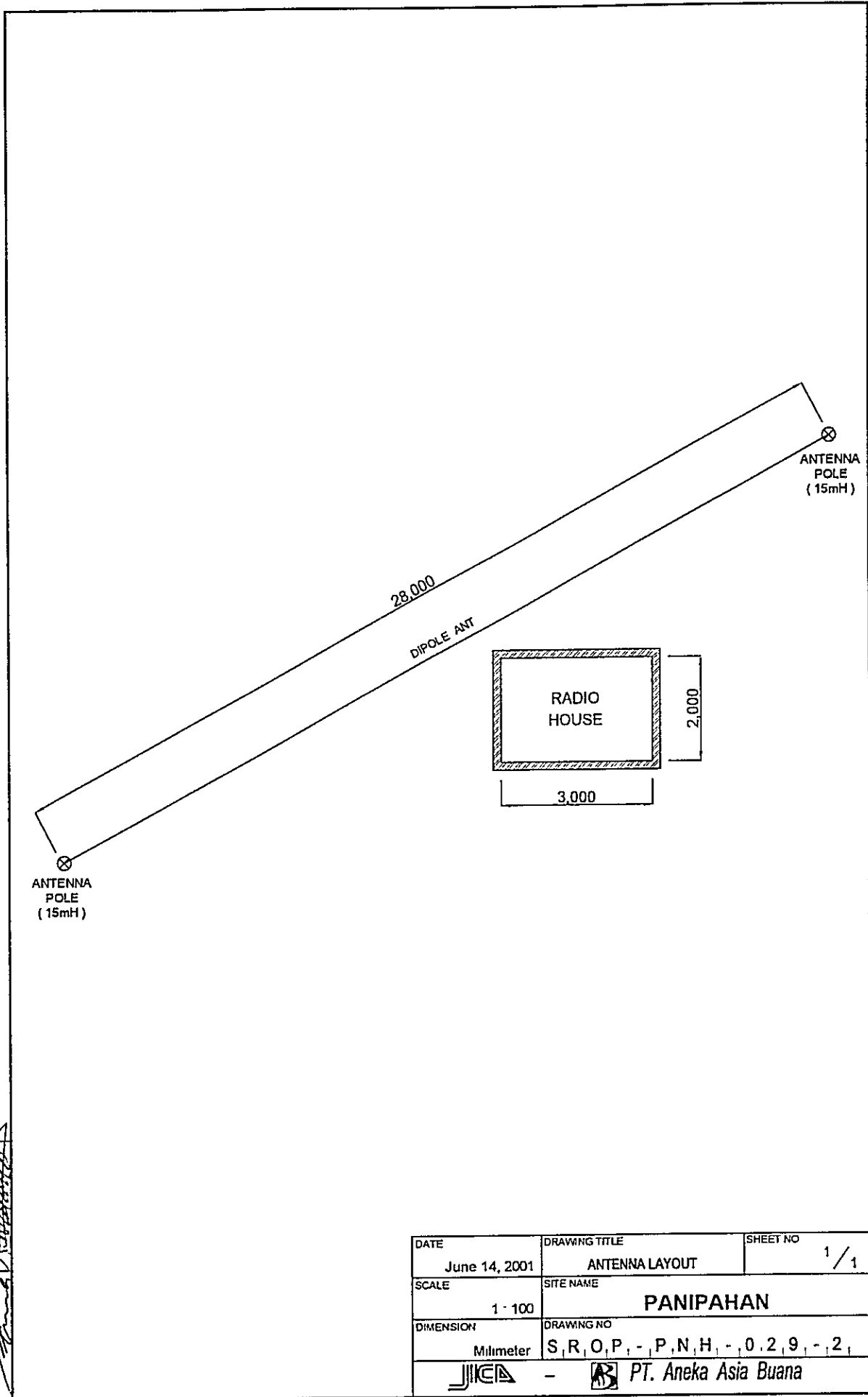
2°

100° 30'

ERABA

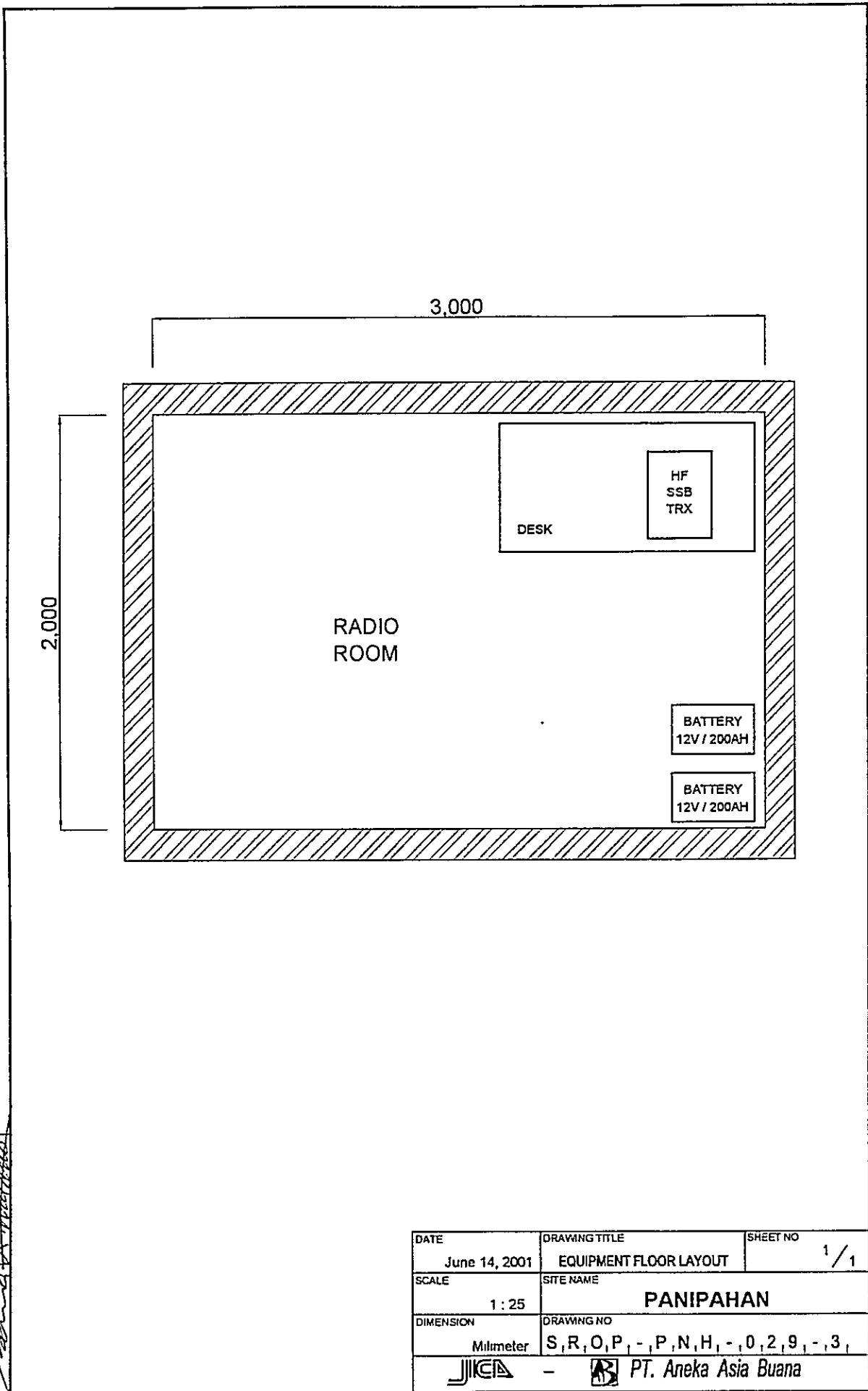
DATE	DRAWING TITLE	SHEET NO
Sept 06, 2001	SITE LOCATION	1 / 1
SCALE	SITE NAME	
1 500,000	PANIPAHAN	
DIMENSION	DRAWING NO	
Meter	S, R, O, P - P, N, H, - 0, 2, 9, - 1,	
JICA	PT. Aneka Asia Buana	

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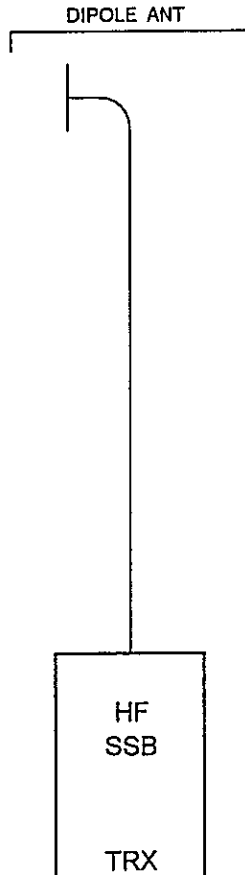
APPROVED BY JICA
 DRAWN BY AAB

DATE June 14, 2001	DRAWING TITLE ANTENNA LAYOUT	SHEET NO 1 / 1
SCALE 1 : 100	SITE NAME PANIPAHAN	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, P, N, H, -, 0, 2, 9, -, 2,	



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[Signature]

DATE	DRAWING TITLE	SHEET NO
June 14, 2001	EQUIPMENT FLOOR LAYOUT	1 / 1
SCALE	SITE NAME	
1 : 25	PANIPAHAN	
DIMENSION	DRAWING NO	
Milimeter	S, R, O, P, -, P, N, H, -, 0, 2, 9, -, 3, 1	
- PT. Aneka Asia Buana		

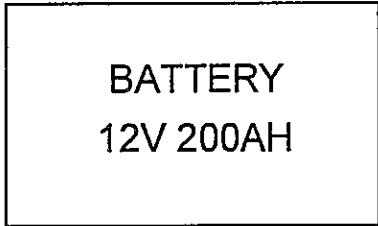


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 [Signature]
 DRAWN BY AAE
 [Signature]



LEGEND

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

DATE June 14, 2001	DRAWING TITLE SYSTEM BLOCK DIAGRAM	SHEET NO. 1 / 1
SCALE No Scale	SITE NAME PANIPAHAN	
DIMENSION Milimeter	DRAWING NO S, R, O, P, -, P, N, H, -, 0, 2, 9, -, 5, 1	
- PT. Aneka Asia Buana		



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 APPROVED BY: JICA: *[Signature]*

DATE	DRAWING TITLE	SHEET NO.
June 14, 2001	POWER BLOCK DIAGRAM	1 / 1
SCALE	SITE NAME	
No Scale	PANIPAHAN	
DIMENSION	DRAWING NO.	
Milimeter	S, R, O, P, -, P, N, H, -, 0, 2, 9, -, 6, 1	
 -  PT. Aneka Asia Buana		