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

4th-B Class Coast Station

Sungai Lumpur

(Coast Station No. 63)

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- ☑ Operation Schedule (Frequencies)

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

Note :

- ☑ Available in this list
- ☒ Not Available in this list
- ☐ Unnecessary in this list
- * Combined in one drawing

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

November 2001

SUMMARY OF COAST STATION

SITE	SUNGAI LUMPUR		
CLASS	4th-B	NO.	63

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX				105° 48′ 37″ E	03° 23′ 02″ S

2. GENERAL CONDITIONS

Moving from Jakarta				Site Access from Port	Road Traffic	Accommodation	Population
By Air	to Palembang	[Taking time	1.00 hr]	☐ Highway	☐ Heavy	☑ Hotel	
By Car	to SLP	[Taking time	6.00 hr]	☑ Paved	☐ Medium	☐ Motel	
				☐ Unpaved road	☑ Light		
					☐ None		

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

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

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Wooden & Stone
Type of roof	Zinc
Type of ceiling	Wooden
Type of wall	Wooden
Wall finish	Painting
Flooring	Tile
Room Area (m²)	
Operation room	3.60
E / G room	
Remark	

3.3 Power Source

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

Quality of PLN source		
Fluctuations	220 V ± 10 %	
Availability of power per day	24 Hours	
Power interruption /month	5 Times	
Total interpt hours /month	20 Hours	
Max interpt hours at once	12 Hours	

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

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

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

4. OPERATION AND MAINTENANCE

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

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

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

5. PERSONNEL FORMATIONS

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

Training Record				
Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	SUNGAI LUMPUR		
CLASS	4th-B	NO.	63

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	Operated by Kanpel Staff

INVENTORY

Site Name: Sungai Lumpur

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

STATUS OF TROUBLES

SITE NAME : SUNGAI LUMPUR **SLP-63-(1/1)**

Item / Equipment	SSB Furuno / -		
Manufacturer	Furuno		
Manufacturer in year	1987		
Defective panel / unit	-		
Details of Trouble Status	Cause doe to:	Urgency of Repair	Repairing to be:
	☑ Aging		☑ Immediacy
	☑ Lightning		☐ By next year budget
	☐ Corrosion		☐ By next project
	☑ Lack of Spares		☐ Unnecessary
	☐ Others		
General Comment for Maintenance:			

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Sungai Lumpur

SLP-063-(1/1)

Call Sign : Mobile Service .
Fix Service .

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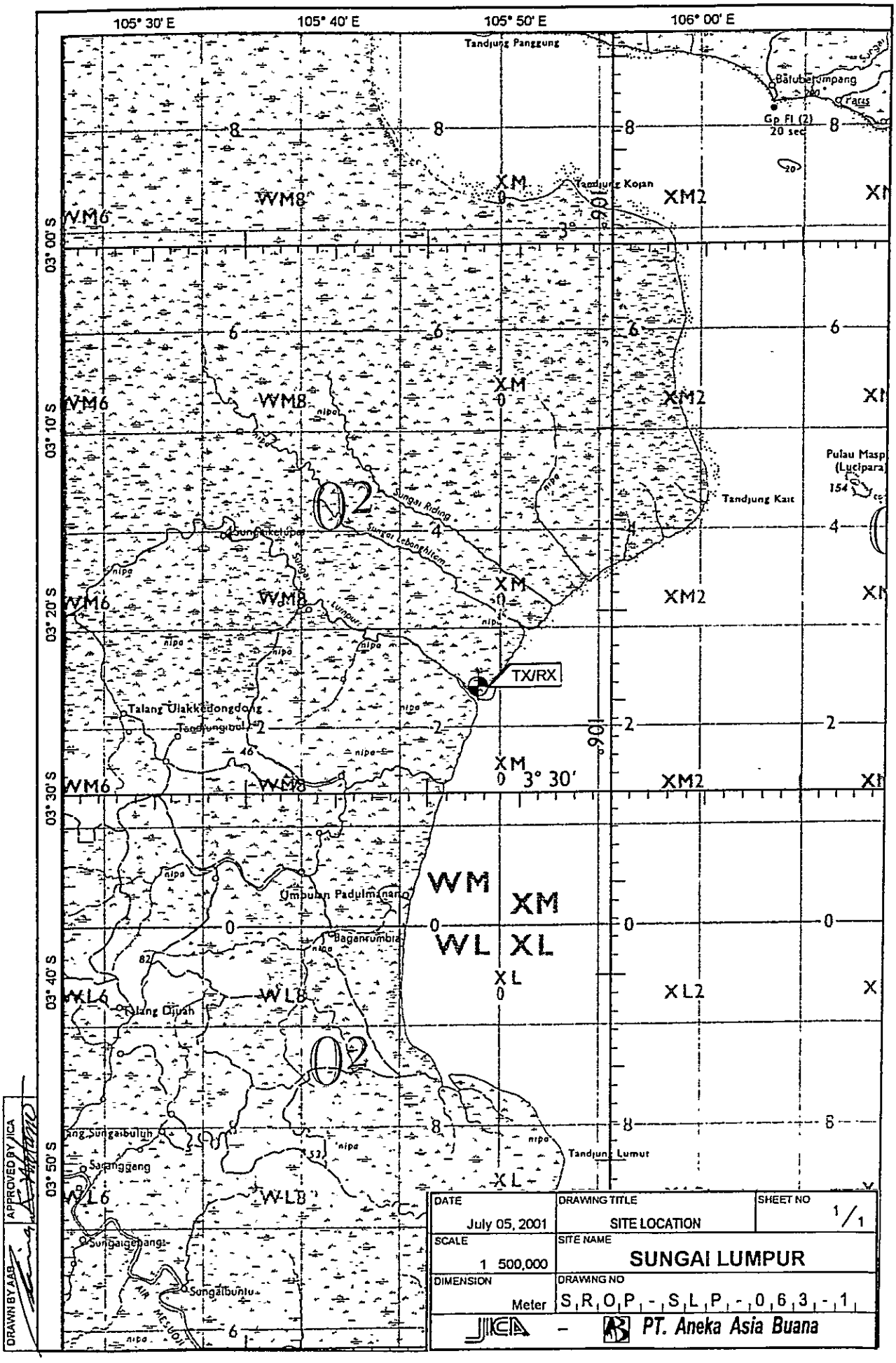
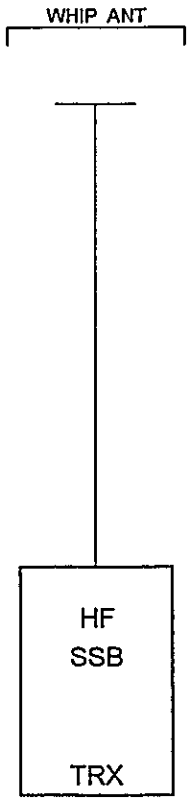


DATE: July 05, 2001	DRAWING TITLE: SITE LOCATION	SHEET NO: 1/1
SCALE: 1 500,000	SITE NAME: SUNGAI LUMPUR	
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,S,L,P,-,0,6,3,-,1	
JICA – PT. Aneka Asia Buana		

DRAWN BY AAB | APPROVED BY JICA



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 27, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SUNGAI LUMPUR	
DIMENSION: Milimeter	DRAWING NO: S,R,O,P,-,S,L,P,-,0,6,3,-,5,	
JICA – PT. Aneka Asia Buana		

LEGEND

AC	: ALTERNATING CURRENT
HF	: HIGH FREQUENCY
TRX	: TRANSCEIVER
V	: VOLT
W	: WIRE
Ø	: PHASE

APPROVED BY JICA

DRAWN BY AAB

DATE: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: SUNGAI LUMPUR	
DIMENSION: Milimeter	DRAWING NO: SROP-SLP-063-6	
JICA – PT. Aneka Asia Buana		

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

4th-B Class Coast Station

Toboali

(Coast Station No. 64)

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	TOBOALI		
CLASS	4th-B	NO.	64

1. LOCATION

Station	Address	Tel.	Fax	Longitude	Latitude
TX/RX	Jl. Pelabuhan, Toboali	0718-41151		106° 26′ 54″ E	03° 01′ 00″ S

2. GENERAL CONDITIONS

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

3. CONDITIONS OF STATION

Refer to attached drawing

3.1 Site Conditions

Topography	Nature of Soil		Past disaster of site	Confirmation of existing system
☑ Flat	☐ Dry soil	☐ Limestone	☐ Flood	Yes No
☐ Slope	☐ Ordinary	☐ Gravel	☐ Flood Tide	☑ ☐ Antenna
☐ Hill-top	☐ Swampy	☐ Rocky	☐ Rain Leakage	☐ ☑ Towers (Masts)
☐ Basin	☐ Clay		☐ Ground Subsidence	☐ ☑ Grounding system
☐ Valley	☑ Sandy			☐ ☑ Lightning system
Altitude	92.60 M		**Telephone Lines**	☐ ☑ Feeder Cable Way
Land area	482.00 m²		☑ 1 Lines	☐ ☑ City water

3.2 Building Conditions

Constructions	
Num. of story	One
Structure	Concrete
Type of roof	Asbestos
Type of ceiling	Asbestos
Type of wall	Brick
Wall finish	Mortar
Flooring	Ceramic
Room Area (m²)	
Operation room	9.6
E / G room	
Remark	

3.3 Power Source

	PLN Source	E/G
Voltage	220 V	V
Phase	1	
Wire	2	
kVA	0.3	

Quality of PLN source		
Fluctuations	10 V ± %	
Availability of power per day	24 Hours	
Power interruption /month	10 Times	
Total interpt hours /month	40 Hours	
Max interpt. hours at once	12 Hours	

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

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

E/G Stand-by System

☐ Single System

☐ Dual System

4. OPERATION AND MAINTENANCE

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

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

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

5. PERSONNEL FORMATIONS

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

Training Record

Course	Class	Location	Period	Trainee

SUMMARY OF COAST STATION

SITE	TOBOALI		
CLASS	4th-B	NO.	64

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	Communication needed from shore to Ship. But the communication facility capable only for land to land
Remarks	Operated by Kanpel Staff

INVENTORY

Site Name: Toboali

No	Registered No.	Description	Type	Serial No	Manufacturer	Date	Reference	Maintenance Record	Condition
1		**Radio Equipment**							
1-1		MF/HF System							
1		SSB Transceiver	IC-M700	50740	ICOM	1990			Good
2		**Tower and Antenna System**							
2-1		Tower and Mast							
1		Antenna Pole (2)	Steel Pipe						
2-2		Antenna System							
1		Whip Antenna							
3		**Power Supply Equipment**							
3-1		Power Supply Adaptor							
1		Power Supply Unit	AK-4040		DAKAI	1990			Good

OPERATION SCHEDULE (FREQUENCIES)

Site Name: Toboali

TBI-064-(1/1)

Call Sign : Mobile Service
Fix Service

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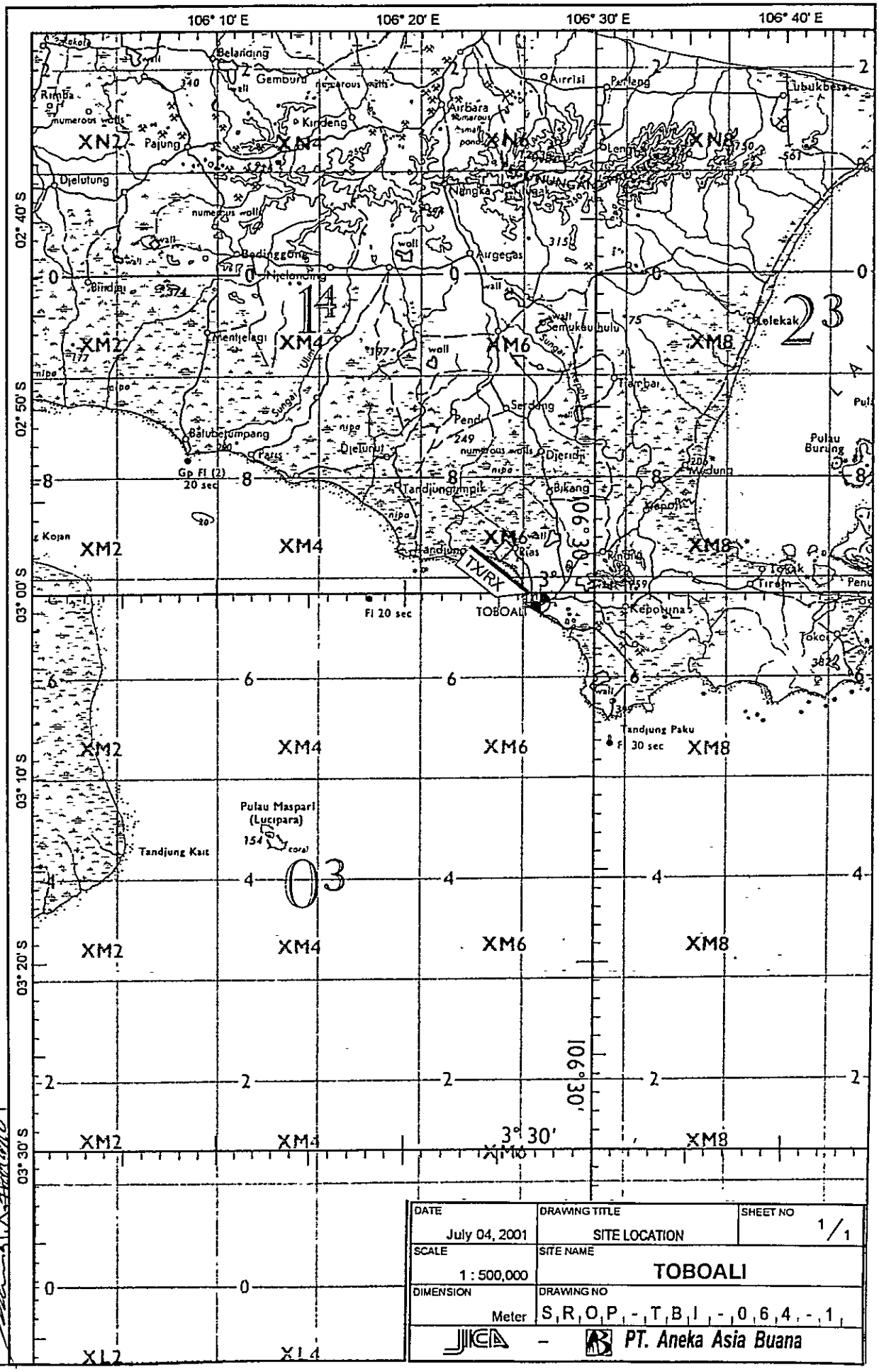

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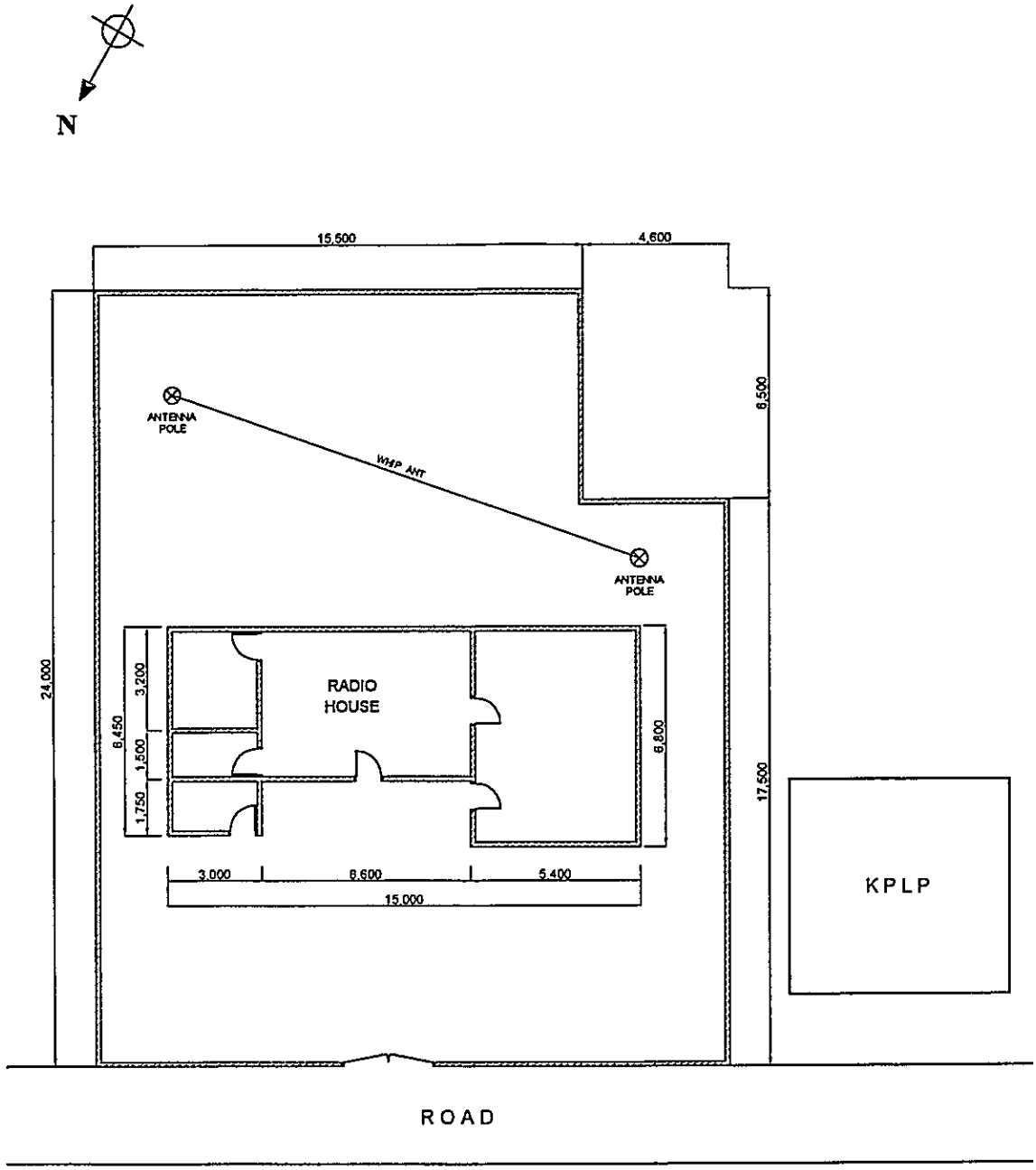
DIMENSION: Meter	DRAWING NO: S,R,O,P,-,T,B,I,-,0,6,4,-,1	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB

APPROVED BY JICA



DRAWN BY AAB | APPROVED BY ICA

DATE: Sept 21, 2001	DRAWING TITLE: ANTENNA LAYOUT	SHEET NO.: 1/1
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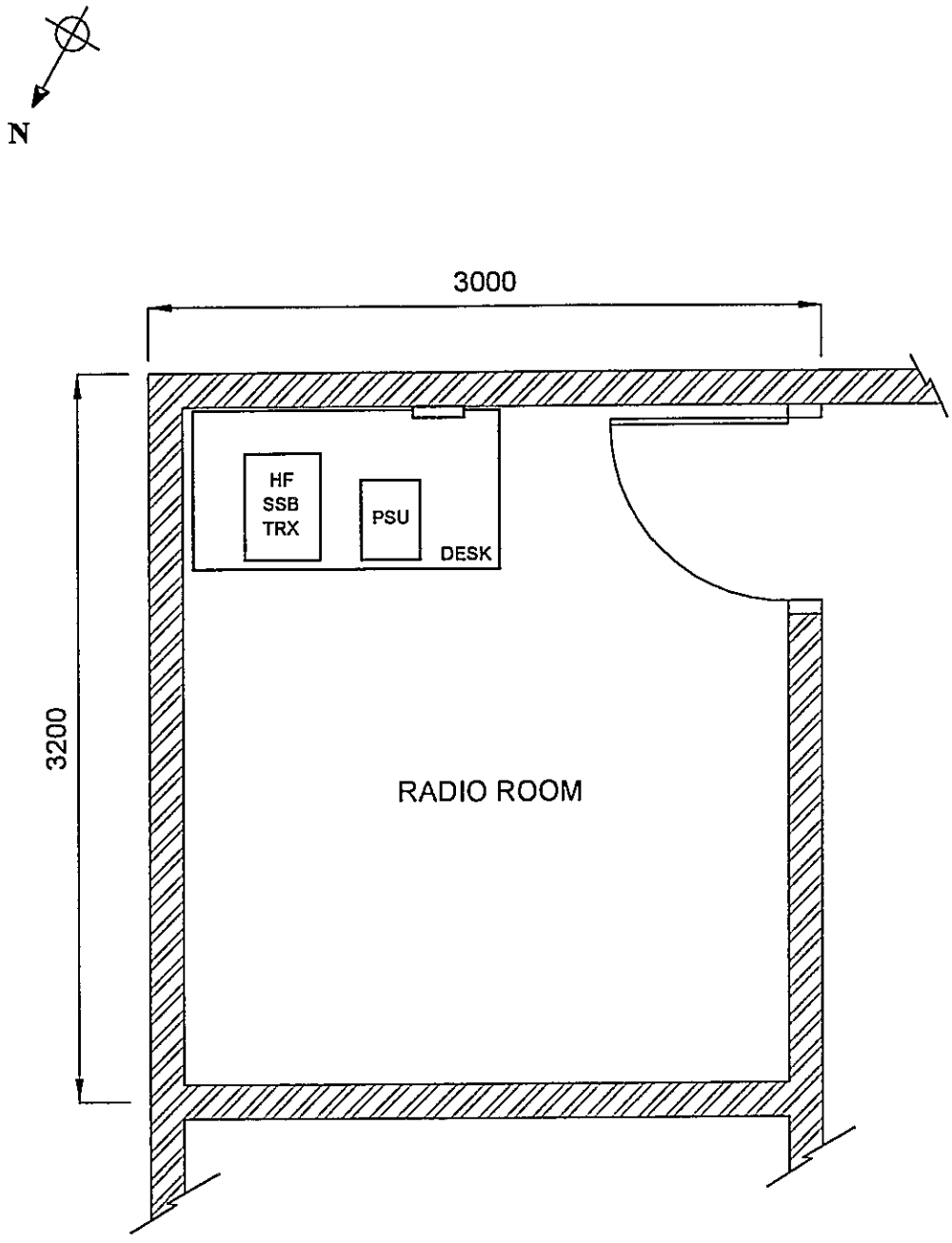
DIMENSION: Milimeter	DRAWING NO: SROP-TBI-0641-2	
JICA – PT. Aneka Asia Buana		

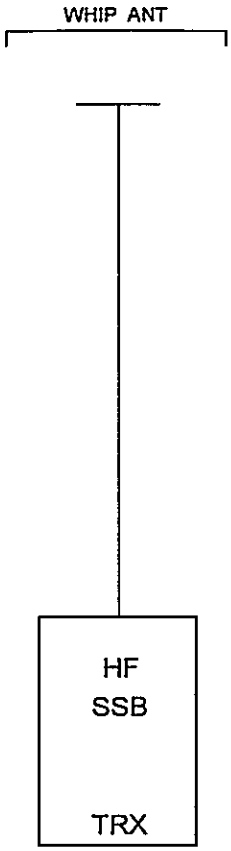


LEGEND

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

DATE: Sept 21, 2001	DRAWING TITLE: EQUIPMENT FLOOR LAYOUT	SHEET NO.: 1/1
SCALE: 1 30	SITE NAME: TOBOALI	
DIMENSION: Milimeter	DRAWING NO.: SROP-TBI-064-3	
JICA –	PT. Aneka Asia Buana	

DRAWN BY AAB
APPROVED BY JICA



LEGEND

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

DRAWN BY AAB
APPROVED BY JICA

DATE: Sept 21, 2001	DRAWING TITLE: SYSTEM BLOCK DIAGRAM	SHEET NO: 1/1
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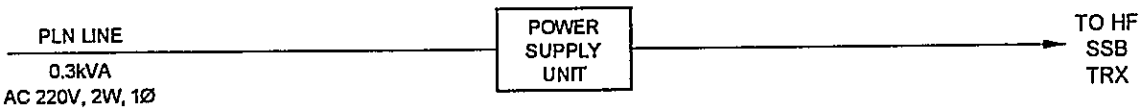
DIMENSION: Milimeter	DRAWING NO: SROP-TBI-064-5	
JICA – PT. Aneka Asia Buana		



LEGEND

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

APPROVED BY JICA

DRAWN BY AAB

DATE: July 27, 2001	DRAWING TITLE: POWER BLOCK DIAGRAM	SHEET NO: 1/1
SCALE: No Scale	SITE NAME: TOBOALI	
DIMENSION: Milimeter	DRAWING NO.: SROP-TBI-064-6	
JICA –	PT. Aneka Asia Buana	

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