### REPORT

ON

# HOSPITAL FACILITIES IMPROVEMENT PROJECT REPUBLIC OF INDONESIA

**VOLUME 3** 

OCTOBER 1978

JAPAN INTERNATIONAL COOPERATION AGENCY

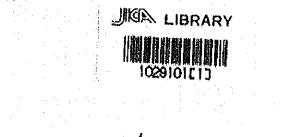
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# WATER SUPPLY AND OTHERS

5-1 Water Supply facilities (A1)

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Group symbol									
Class	Name of hospital	Numb of beds	erdnozo	Water supply facility	Kitchen facility		Waste disposal facility		Cooling facility
	Porsea	60		<b>(d)</b>					
Ð	Bantaeng	100	]	<b>ⓑ</b>					c - (j)
	Tanjung Balai	130							
	Tenr lawaru	75	ļ Į	(a) (b)					
p+	Tebing Tinggi	80		(a)					: : :
D)	Liun Kendage	80	I	W-I	K-I	L-I	D-I-II		c - (2)
	Soppeng	100		<b>(a)</b>					
İ	Rantan Prapat	100		©		; ; ;		4	
	Elim Rantepao	120		(a)		<b>]</b>			
	Palopo	120		(a)	j	1	į		
	Pare- Pare	100		<b>a</b>	1	* ************************************			
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		140 nain		<b>(b)</b>		1	:		c -(3)
	Tondano	1.50	II	W-II	K-11	L-II		į	
	Kotamobagu					:			
	Tartung	225		(a)				• •	
В	Rematang Siantar	290	111	W-III	K-111	L-III	:		c - 4
	Gunung Wenang	450	TV	W-IV	K-1V	1114	D-111-IV	B~1V	C - '5'
٨	Ujung Pandang	450	4		1		:		C - 6
[	Medan	750	ν	W~V	K-V	L- V	D-V	B-V	C - 7

The water supply facilities are divided into the following sub-groups as the water supply systems differ according to the type of water source.

<sup>(</sup>a) PAM or local self-governing body (b) Well and water wagon

<sup>(</sup>b) Well

River

# Construction classification

1tem	local currency	foreign exchange	Remarks
Building (common to all facilities)	Everything (machine base included)	<b>.</b>	
Water supply facility	Well/Water receiving tanks/ Outdoor water feed pipes arrangement/ Indoor water supply facilities (except in the kitchen, laundry and boiler house)	Water supply facilities except the well and water receiving tanks/ water treatment facility/Control facility	For comparison of costs, the elevated water tank and lift pump are quoted as options.
Kitchen facility	Lead-in of pipes to the necessary portion in the kitchen (primary side) / Construction of all facilities of hood, ventilating fan, drain pit, funshade on the tank, built-in shelves, and the office, warehouse, water closet, etc. appendant to the kitchen	All appliances/ all facilities concerning kirosene/ Connection of lead-in pipes to appliances in the kitchen (secondary side)	Thorough discussion should be made on the floor foreign exchange
Laundry facility	Lead-in of pipes to the necessary positions in the laundry (primary side) / Drain pit	All appliances/ Connection of lead-in pipes to the appli- ances in the laundry (secondary side)/ Ventilating duct	Same as above

Item	local currency	foreign exchange	Remarks
Waste disposal Facility	•	Main body of incinerator (chimney included)/All facilities concerning oil	
Boiler Facility	Chimney/Lead-in of water supply pipes to the necessary positions in the boiler house and the drain facility subsequent to the drain pit	All equipments and pipes in the boiler house/All facilities concerning oil (except the tank base)/All outdoor steam pipe arrangement	Excavation and foundation for the outdoor tanks are included in the local currency Thorough discussion should be made on the floor finish.
Cooling facility	All constructions but estimated as foreign exchange	Only the supply of main body	
Miscellaneous construction	All repair constructions of buildings related to this construction	Works concerning the presentation and approval of the working drawings and samples of materials and products	<b>3</b>

It is necessary to separately estimate the following costs as not included in this estimation

- (1) Traffic expenses and hotel charges if foreign supervisors or other personnel are dispatched.
- 2 Materials for carry-in and installation (tow truck etc.) and large tools
- 3 Wages of native workers (estimation is made on assumption that only the field overseer will be dispatched).
- 4 Temporary construction cost, power cost, water cost, etc.

# .1 Water Supply Facilities Appliance Selection Criteria

Each hospital improvement plan

Name of	Water supply facility	Water treatment facility	Outdoor pipe arrangement	Remarks
Gunung Wenang	***	<b></b>	<b></b>	No improvement is necessary, judging from the present condition of PAM.
Londano	<b>-</b>	<u>-</u>	For PAM	No improvement is necessary, judging from the present condition of PAM.
Kotamobagu		•	<b>**</b>	No improvement is necessary, judging from the present condition of PAM, except that the open pipes in the site should be protected.
Corontalo	Only from the well to the main ward	Two systems for the main ward and maternity ward	Only for the main ward	The shallow well in the site can be used. The deep well in the possetion of the local government is necessary. Both are temporary water sources before the water becomes available from the PAM water source.
idun Kendage	•	•	<del>-</del>	No improvement is necessary, judging from the water supply facilities of the local governing body and the future plan of PAM. Since the water is directly fed from the pipes, water treatment is necessary at the water source.
Ujung Pandang	2)	4)	O Newly installed for PAM	The plan is based on the assumption of water supply from the PAM.
are⊶Pare	0	0	<b>(</b> )	It is necessary to substitute 3" size pipes for the 2" size pipes arranged from the water distributing tower to the hospital. All pipes in the site should be replaced.
Palopo	0	4)	0	

Name of Hospital	Water supply facility	Water treatment facility	Outdoor pipe arrangement	Remarks
Soppeng	0	0	0	Water should be derived from the spring, using a water wagon. It is desired, however, that the spring water is reused by the PAM in the future.
Tenri- awaru	1) well 3) PAM	4) PAM  O x 2  Two systems for PAM and the well	Two systems for PAM and the well	The well in the site should be reused until the completion of improvement construction of PAM, so that water is available from two supply systems. The well water should be used solely in the water closets and laundry, which should be substituted by the PAM water in the future.  The measurement of water quantity is necessary.  Covers should be put on the existing PAM water receiving tank and the well.

#### Notes:

- 1. Water supply facilities
  - O New facility installation.
  - O A water wagon is necessary in addition to the new facility installation.
  - 1) The existing elevated water tank should be checked whether usable or not.
  - 2) Unnecessary if the water pressure of PAM-supplied water is sufficient,
  - 3) The existing water receiving tank is used.
- 2. Water treatment facility
  - O Installation of chlorine sterilization facility.
  - O Installation of water filter in addition to the above.
  - 4) Unnecessary if the outdoor pipes are newly installed and water treatment is completed by the PAM.
- 3. Outdoor pipe arrangement
  - O Installation of pipes in the hospital.
  - Installation of pipes from the water source to the hospital, in addition to the above.

Name of Hospital	Water supply facility	Water treatment facility	Outdoor pipe arrangement	Remarks
Elim Rantepao	1)	0	0	Water supply facility should be newly installed for cholrine sterilization and stabilization of water quantity and pressure.
Bantoeng	1) O For well	0	0	The well in the site should be used. The quantity of well water should be checked
Medan	1) O	4)	0	
Pematang Siantar	2)	4)	Ο	No improvement is necessary, judging from the future plan of PAM. Since the water is directly fed from the pipes, water treatment is necessary on the PAM side.
Tartung	3)	0	<b>©</b>	For the purpose of chlorine sterilization and attaining a sufficient water pressure, a water supply facility should be newly installed besides the water receiving tank. The 4" size exclusive pipes should be newly installed from the water source of distributiveservoir to the hospital.
Kisaran	0	4)	0	Water should be derived from 5" size pipes now under the construction by PAM. A water supply facility should be new installed to cope with the hour-restricted water supply.
Rantau Prapat	For the well	0	0	Since there is no way of increasing water quantity, a water wagon is necessary untiwater becomes available from the PAM. Also a water receiving tank should be newlinstalled in the site to storwater sent by the water wagon

Name of Rospital	Water supply facility	Water treatment facility	Outdoor pipe arrangement	Remarks
Tebing Tinggi	• • • • • • • • • • • • • • • • • • •		0	Improvement should be made by effective opeation of valves and pumps of the PAM. It is desired, however, that the water is derived from the new water source of PAM in the future. It is preferable to reserve the shallow well for emergency.
Pranjung Balai		•	©	Exclusive pipes should be newly installed from the elevated water tank of PAN to the hospital. The water pressure will be sufficient for direct feeding from the pipes.
Porsea	For the river	<b>©</b>	<b>(</b>	The water, as directly derived from the river, should be once stored in a water storage tank and then supplied to the water receiving tank via a water filter. In case of transfer of the hospital, pipes should be installed from the river to the hospital.

## Notes:

- 1 Water supply facility
  - ONew facility installation.
  - OA water wagon is necessary in addition to the new facility installation.
  - 1) The existing elevated water tank should be checked whether usable or not.
  - 2) Unnecessary if the water pressure of PAM-supplied water is sufficient.
  - 3) The existing water receiving tank is used.
- 2 Water treatment facility
  - Oinstallation of chlorine sterilization facility.
  - OInstallation of water filter in addition to the above,
  - 4) Unnecessary if the outdoor pipes are newly installed and water treatment is completed by the PAM.

- 3 Outdoor pipe arrangement
  - O Installation of pipes in the hospital.
  - Onstallation of pipes from the water source to the hospital, in addition to the above.

Appliance selection criteria

	Classes A and B	Classes C, D and D	Remarks
Mater supply Guantity/day	500 1/bed, day	300 1/bed, day	
owest water pressure limit	0.7 Kg/cm <sup>2</sup>	0.7 Kg/cm <sup>2</sup>	A booster pump is installed for appliances requiring higher water pressure
water receiving ank capacity	Water supply quantity/day	Water supply quantity/day	To facilitate maintenance, the water tanks are divided into two groups.
Elevated water tank system			
Elevated water tank capacity	(Water supply quantity/day) + 10(Hr)	(Water supply quantity/day) + 5 (Hr)	To facilitate maintenance, the water tanks are divided into two groups.
Lift pump capacity	(Water supply quantity/day) + 2.5 (Hr)	(Water supply quantity/day) + 2.5 (Hr)	Two pumps automa- tically alternate their operations.
2. Pressure tank system/Pump capacity	(Water supply quantity/day) + 2,5 (Hr)	(Water supply quantity/day) + 2.5 (Hr)	Pumps automatically alternate their operations, Or both automatic alternating
Direct pump feed system with no tank/ pump capacity	(Water supply quantity/day) + 2.5 (Hr)	(Water supply quantity/day) + 2.5 (Hr)	operation and parallel operation are available (to allow a large flow capacity). For parallel operation, the pump capacity is divided according to the number of pumps, and another pipe is added as a stand-by.

```
Filter
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 $=\frac{Q}{1.V}$ 

A: Sectional area of filter  $(M^2)$ 

Q: Water supply quantity (M3/Hr)

LV: Filter flow speed (M/Nr) = 6

phlorine sterilization facility

B=100xl/xQ

B: Quantity of Nac10 solution (10% strength) (cc/Hr)

N: Strength of NH4 (ppm)

Remarks) Necessary quantity of Nac10

=10ppm / NH<sub>4</sub> 1ppm

Necessary quantity of NaclO solution

(10% strength)=100ppm /  $NH_4$  1ppm

1/34

EQUIPMENT LIST

1/10

NAME

Water Lifting Pump

#### TECHNICAL DATA

: Horizontal multistage pump Type

Mandling fluid : Clean water (Temperature 0 \ 40°C PH 6 \ 9)

Suction side : Suction operation only (Lift Head -- within -6 meters)

Installation site: Indoor

: Dripproof, cage type, 3 phase induction motor Accessory motor

11 Kw below : Direct on Line Starting method 11 Kw over :  $\lambda - \Delta$ 

Operating method: Automatic alternate operation

: 3 phase, 220 volts, 50 Hz Power supply

; two sets No. of pumps

Accessories (per one set)

Sluice value -- one set

Check value -- one set

· Foot value -- one set

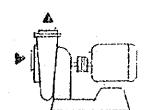
Suction cover -- one set

Pressure guage -- one set

also, one full set of other standard accessories.

Spare parts (per one set)

gland packing -- two sets



ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
1 - 1	$50\phi \times 200 \text{ l/min} \times 30\text{m} \times 3.7\text{kW} \times 2 \text{ sets}$	0.4 0.52	3.7
1 - 11	80φ × 400 l/min × 30m × 5.5kW × 2 sets	0.57 0.74	5.5
1 - III 1 - IV	$100\phi \times 1000$ l/min $\times$ 30m $\times$ 11kW $\times$ 2 sets	0.9 1.17	11
1 - IV	125φ × 1300 l/min × 30m × 15kW × 2 sets	1,2 1,56	15
1 - V	$125\phi \times 2000 \text{ L/min} \times 30\text{m} \times 18.5\text{kW} \times 2 \text{ sets}$	1,25 1,62	18.5
REMARKS			

					i	ı
λΛ1	WATER SUPPLY	WATER SUPPLY EQUIPMENT	2/34	EQUIPMENT LIST	2/10	

NAME Elevated Water Tank (FRP)

#### TECHNICAL DATA

k Elevated Water Tank

Material: PRP Panel

Hator zum

Type : Rectangular type with partition wall

(double compartment type) made by unit panel

(1000mm × 1000mm)

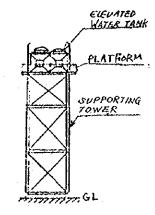
Assembly method: Job-site bolt construction type

Accesory: Manhole (600) 2 p.c.s.

Inner ladder2Outer ladder2

Air vent (with insect screen) 2 Nozzle (optional size) 8

Electrode base (with cover) 2



\* Supporting Tower

Angle steel structure with platform 10mH

\* Spare Parts

Bolt, nut with washer 20 p.c.s.
Gasket 10 "
Stay Bolt 2 "
Sealing Block 4 "

Silicone Sealer 4

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
2 - 1	2,000 <sup>L</sup> × 2,000 <sup>W</sup> × 2,000 <sup>H</sup>	4.78 10.78	-
2 - 11	2,500 × 3,000 × 2,000	5.48 17.48	<b>-</b> .
2 - 111	$3,000 \times 3,000 \times 2,000$	6.09 21.09	~
2 - 17	$3,000 \times 4,000 \times 2,000$	6.3 26.3	<del>-</del>
2 - V	3,000 × 4,000 × 3,000	8,57 38,57	
REMARKS	-Para Rush resignation by quart date of ground the hologophy had become under the color of the such but the retail of my hand and my color of the such but the retail of the color of the c	market and a second need	han spingurga, <sub>18</sub> 0, yangan bigan bir bir ya

Elevated Water Tank NAME

ELEVATED

WATER TANK

PLATFORM

SUPPORTING

TOWER

שול תחוקדונונים

#### TECHNICAL DATA

Elevated Water Tank

Material: FRP Panel

Steel Panel with Nylon-12 coating

Type : Rectangular type with partition wall

(double compartment type) made by unit panel

(1000mm 1000nm)

Assembly method: Job-site bolt construction type

Accesory: Manhole ( 600) 2 p.c.s. 2

Inner ladder

Outer ladder Air vent (with insect screen)

Nozzle (optional size)

Electrode base (with cover)

Supporting Tower

Angle steel structure with platform 10mH

Spare Parts

Bolt, nut with washer 20 p.c.s.

10 Gasket \*\* 2 Stay Bolt

Ĥ Sealing Block Silicone Sealer

ден ко.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
3 - I	2,000 <sup>L</sup> × 2,000 <sup>W</sup> × 2,000 <sup>H</sup>	5.32 11.32	<del>-</del>
3 - 11	2,500 × 3,000 × 2,000	6.21 18.21	. <del>-</del>
3 ~ 111	$3,000 \times 3,000 \times 2,000$	6.92	-
71 - 1	$3,000 \times 4,000 \times 2,000$	7.27	-
\$ - V	$3,000 \times 4,000 \times 3,000$	9.83	-
REMARKS			

WATER SUPPLY 4/34 EQUIPMENT LIST 4/10

NAME REPLY - EQUIPMENT 4/34 EQUIPMENT LIST 4/10

#### TECHNICAL DATA

Equipment list

Equipment name; Pressure Tank Unit

Standard specifications

Water source To Indo

Air pressure tank

Outline of unit

This unit, composed namely of a centrifugal pump, an air pressure tank, and an automatic control panel, is capable of automatically operating with pressure from the air tank.

The automatic air-feeding device eliminates the need for air compressor.

### Operating conditions

- 1) Installation site; Indoors
- 2) Handling fluid; Clean water (temperature 0-40°C, pH 6-9)
- 3) Suction side; uction operation only (Lift Head -i within -6 meters)
- 4) Power supply: 3 phase, 220 volts, 50 Hz

11 Kw below: Direct on Line

11 Kw over :  $\lambda - \Delta$ 

#### Component structure

1) Air pressure tank (steel with epoxy-coated interior) -- one set

Accessories -- one set each --

pressure gauge

Safety valve

Discharge valve

Sluice valve

Air suction valve

Water supply magnetic valve

Water discharge magnetic valve

2) Pump (Horizontal type) -- 2 sets (Automatic alternate operation)
or 3 sets (Automatic alternate parallel operation)

Accessories -- one set each --

Sluice valve

Check valve

Foot valve

Suction cover

Auxiliary water tank

- 3) Control panel (for automatic operation, with dry-operation-preventive device) -- one set
- 4) Other components -- Suction pipe

Piping for connecting pump with water tank
Electric wiring between pump and control panel,

#### Spare parts

Air discharge valve -- one set

Pressure switch -- two sets

Water discharge magnetic valve -- one set

Water suction magnetic valve -- one set

Air suction valve -- one set

Gland packing -- two sets

ITEM NO.			SPEC1F	ICAT 101	N		. :	WEIG . (T		ELECTRIC CAPACITY (KW)
	Water Supply	Starting pressure	Stop	Tank	· · · · · · · · · · · · · · · · · · ·	Pump				
	2/min	kg/cm³	kg/cm'	m³	Diameter	power kw	Number of instal- lation			
4 - I	200	3.0	4.1	1,2	50	3.7	2	0.94	2.14	3.7
4 - 11	400	4.0	6.3	2.3	50	5.5 x 2	3	2.51	4.81	5.5 x 2
4 - 111	1,000	4.0	6.2	3.0	65	7.5 x 2	3	3.5	6,50	7.5 x 2
4 - IV	1,300	4.0	6.2	4.0	80	11 x 2	3	4.96	8.96	11 x 2
4 - V	2,000			8.0	100	15 x 2	3	6.09	14.04	15 x 2
REMARKS	<del> </del>				yallariy di ngifi sitalian yari disalikar	aksanga kapkangilika silik sar Amerik Affira ard			<b></b>	

Weight; Left - Gross shipping weight

Right - Net weight

A1 WATER		5/34	EQUIPME	NT LIST	5/1	
NAME	Tankless Direct Pump Un	1.t		rander fra e skipe e en		
	TECHN	ICAL DATA				
21) Pumps	are started or stopped by w	ater quanti	ty or pressu	re.		
25	Case I, II ; The pump is started by pressure switch. The pump is stopped by proximity switch at V.S type flow detector.					
Case	No.1 pump and No. No.2 pump is stop detector, and No.	ped by pres	sure switch	at the V.S t	Abe trom	
2) Item						
Pressi Proxii Accum Contre Pumps Valve Commo 3) Spare V.S t press	V.S type flow detector  Pressure Switch  Proximity Switch  Accumulator  Control panel  Pumps and motors  Valves  Common base  3) Spare parts  V.S type flow detector  Pressure Switch  Accumu-  LATOR  SLICE VALVE  SLICE VALVE  VS TYPE FLOW DETECTO  NOTOR FUMP  W.L  MARCH PANEL  PRESSURE  SWITCH  ACCUMU-  LATOR  SWITCH					
Start	ing Method 11 Kw below : I		ne			
	11 Kw over : 2	( - Δ				
ITEM NO.	SPECIFICATION	um, que registado en destrucción de espera esperar de espera de espera de espera de espera de espera de espera	WEIGHT (T)	ELECTRIC CAPACITY (KW)		
······································	65 x 30 x 200 4min x 30 m x	3.7 KW x 2	0.54	2 7		
5 - 1	AUTOMATIC OLTERNATE OPERATIO		0.32	3.7	•	
5 <b>-</b> 11	65 + × 50 + × 400 4/min × 30 m ×		0.56	5.5		
5 - 111	AUTOMATIC ALTERNATE OPERA 80 * × 500 */min × 40 m × 7.5 ! AUTOMATIC ALTERNATE OPER	CWX3 (SPARE )		7.5 × 2		
5 <b>-</b> IV	100 4 x 650 4/min x 40 m x 11 KW XV	3 (SPARE 1)	4.27	11 × 2		
5 - V	AUTOMATIC ALTERNATE OPERATION ATTOMATIC 125° x 1000 <sup>9</sup> /min x 40m x 15 km x AUTOMATIC ALTERNATE OPERATIO AUTOMATIC PARALLEL OPERATIO	J (SPARE 1		15 × 2		
REMARKS			and the second s			
Retoht	Ton - Cross shinning unish					

I'	TEM	NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
	 S	1	65° × 50 × 200 4min × 30 m × 3.7 KW × 2	0.54	3.7
	5 -		AUTOMATIC OLTERNATE OPERATION 50° 65° × 50° × 400° 4/min × 30 m × 55kW × 2	0.56	5.5
<b> </b>	- 5 -		AUTOMATIC ALTERNATE OPERATION SOF	3,20	7.5 × 2
-	 5 +	IV	AUTOMATIC ALTERNATE OPERATION WELD MEANING STATE 1009 x 650 min x 40 m x 11 kW xy (SPARE 1)	4.29	11 × 2
	5		AUTOMATIC ALTERNATE OPERATION ASSOCIATIC PARALLEL OPERALION ALZS.  185° × 1000 9min × 40m × 15 FW × 3 (SPARE 1)	4.57	15 × 2
		-	AUTOMATIC ALTERNATE OPERATION  AUTOMATIC PARALLEL OPERATION 100% 125%	2.90	
R	ЕМАР	KS			

A1 WATER WATER SUPPLY 6/34 EQUIPMENT LIST 6/10

NAME Water Lifting Pump

#### TECHNICAL DATA

Horizontal centrifugal pump

Handling fluid : Clean water (Temperature 0  $\sim$  40°C PH6  $\sim$  9)

Suction side : Suction operation only (Lift head-within -6 meters)

Installation site: Indoor

Accessory motor : Dripproof, cage type, 3 phase induction motor

starting method : Direct on line

Operating method: Automatic alternate operation

Power supply : 3 phase, 220 volts, 50 Hz

No. of pumps : two sets
Accessories (per one set)

Sluice valve -- one set

Check valve -- one set

Foot valve -- one set

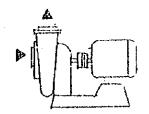
Suction cover -- one set

Pressure guage -- one set

also, one full set of other standard accessories.

Spare parts (per one set)

gland packing -- two sets



ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
6 - I 6 - II	50 $\phi$ × 200 $\ell$ /min × 10 m × 1.5 kw × two sets 65 $\phi$ × 400 $\ell$ /min × 10 m × 1.5 kw × tow sets	0.27 0.30 0.30 0.33	1.5
6 - I 6 - II			
REMARKS			and the second of the second s

199	The state of the s	- 1 (1)		1
	WATER WATER SUPPLY EQUIPMENT	7/34	EQUIPMENT LIST	7/10
後蒙	SUPPLIA		Water to the telephone of the same and the s	
77.7%				
4.3				1
	MAME Water Lifting Pump			

#### TECHNICAL DATA

: Horizontal multistage pump

Handling fluid : Clean water (Temperature 0 ~ 40°C PH 6 ~ 9)

suction side : Suction operation only (Lift Head -- within -6 meters)

installation site: Indoor

ccessory motor : Dripproof, cage type, 3 phase induction motor

tarting method : Direct on line

operating method: Automatic alternate operation

ower supply

: 3 phase, 220 volts, 50 Hz

No. of pumps : two sets

ccessories (per one set)

-- one set Sluice valve

-- one set Check valve

Foot valve -- one set

Suction cover -- one set

Pressure guage -- one set

also, one full set of other standard accessories.

pare parts (per one set)

gland packing -- two sets

TTEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
7 - 1	65 % × 400 l/min × 55 m × 7.5 kw × two sets	0.69	7.5
REMARKS			

7				1			í I	ı
4	WATER	WATER TREATMENT	8/34	]	EQUIPMENT	LIST	8/10	į
<b>X</b> 1.	SUPPLY	EQUIPMENT	0/ 34		20022111			ı
23	I DOLLY			**************************************	(			

The same of the last of the la	
	Chlorine Disinfectant Injector
NAME	chioring pisiniectant injeces
i natrid	

#### TECHNICAL DATA

ontinuous chemical feeder

Components: Fixed quantity pump, chemical tank

Spare parts: Diaphram below 2

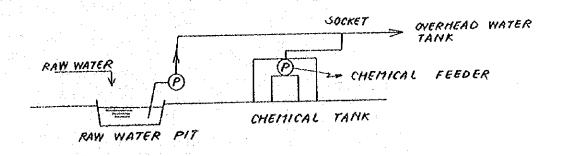
Pump head

Residual chroline measure 1

Nacl 0 20ℓ ∿ 40ℓ

Work division: Fitting guide only

Flow plan



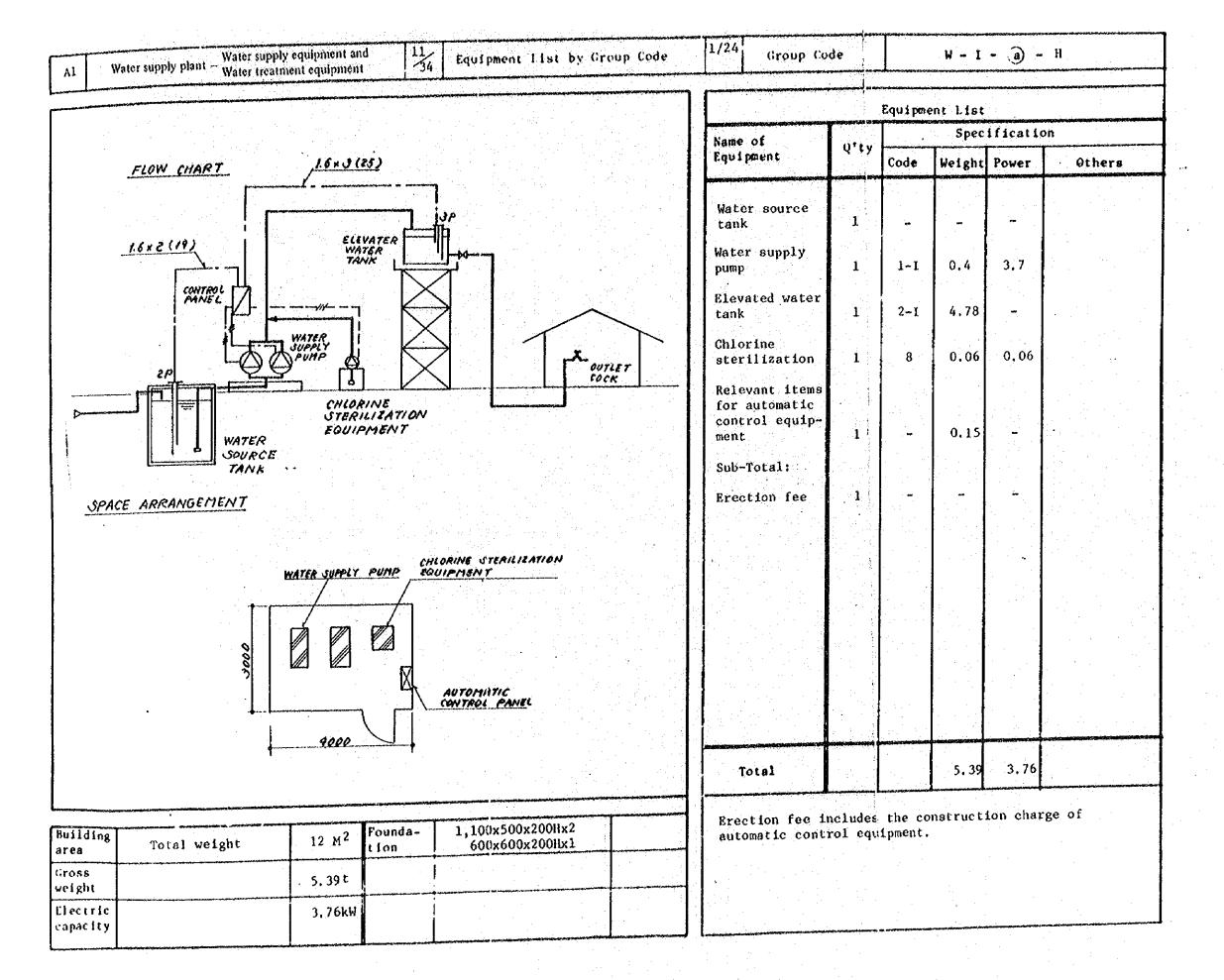
ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
8	Delivery Capacity: 4 ~ 17 cc/min  Delivery Pressure: 4 mH  Motor Specis : 220 V × 50 Hz × Single phase  Chemical Tank :  Polivinyl : 368 mm × 368 mm × 412 mmil	0.06	0.06
REMARKS			

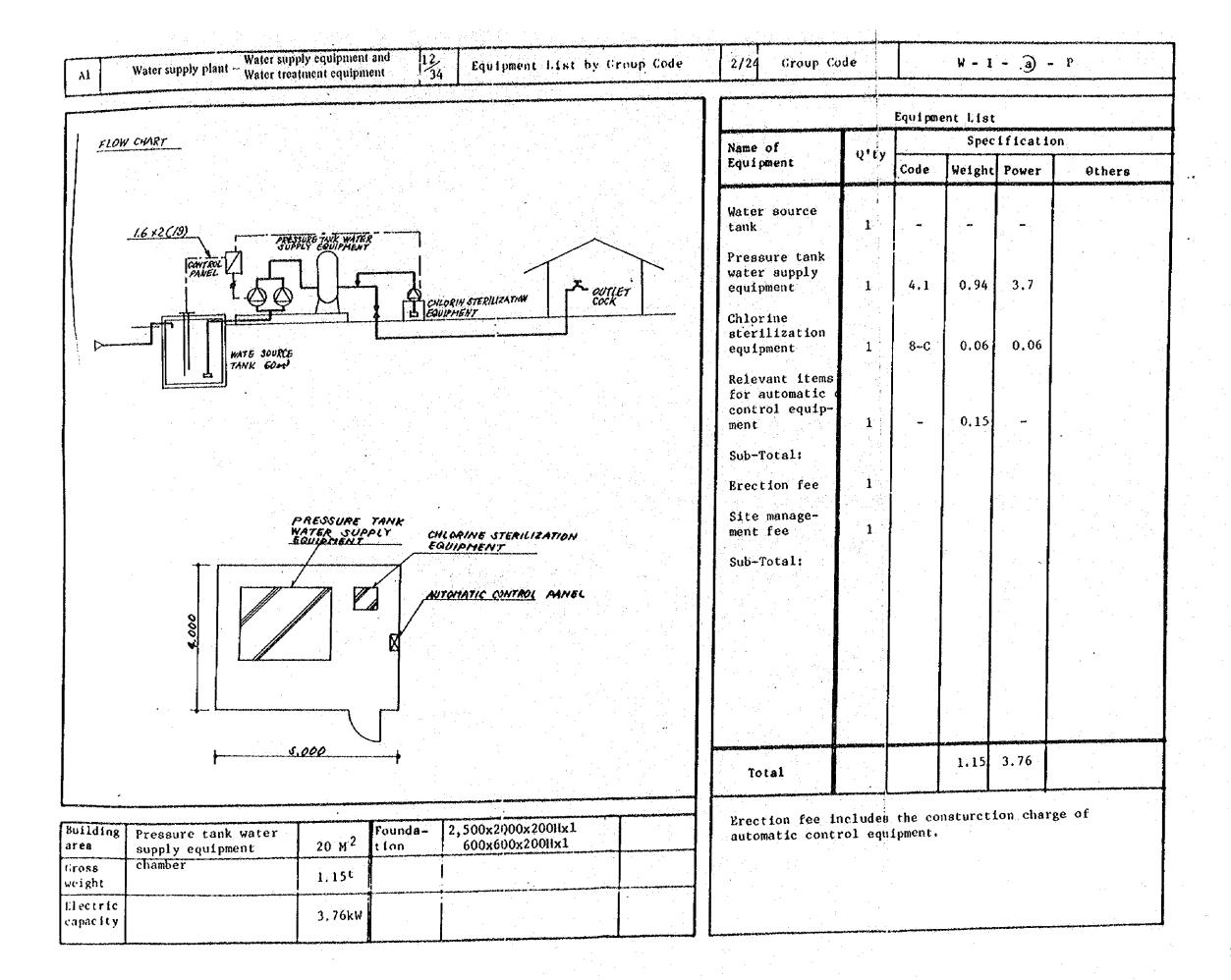
WATER SUPPLY	WATER TREATMENT 9/34 EQUIPMENT LIST EQUIPMENT	9/1
NAME	Filter	ىدىن ئۇرىلى ئۇرىلىدىن ئۇرىلىدىن ئۇرىلىدىن ئۇرىلىدىن ئۇرىلىدىن ئۇرىلىدىن ئۇرىلىدىن ئۇرىلىدىن ئۇرىلىدىن ئۇرىلىدى ئۇرىلىدىن ئۇرىلىدىن
	TECHNICAL DATA	and the second s
Spare	Raw water quality Turbidity 30  Treated water quality " 5°  Flow rate	ntrol

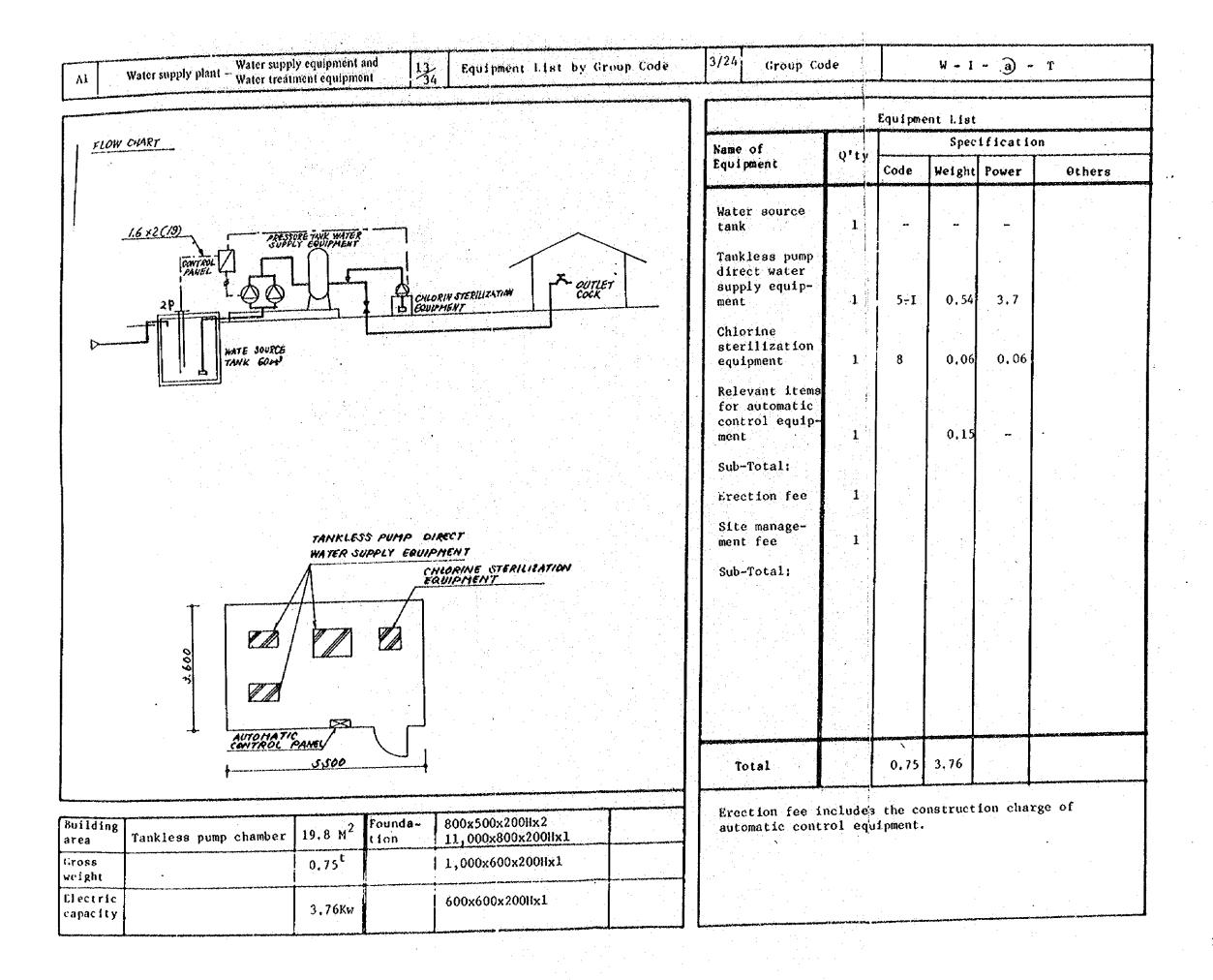
F	Flow water quantity: 6 m <sup>3</sup> /Hr, 30 m <sup>3</sup> /Day Filter dimention : 1,150 $\phi$ × 2,450 H	5.0	3.7
R B	fain pipe diagram : 1,000 \$\frac{1}{2}\$ ilter media : 1,000 \$\frac{1}{2}\$ is 40 \$\phi \times 0.1\$ m\rightarrow min \$\times \frac{1}{2}\$ kw sack wash pump : $65 \ \phi \times 0.4 \ \mathred{m}^3/\min \times \frac{2}{2}$ kw solution panel : 250 \ \mbox{mm} \times 300 \ \mbox{mm} \times 200 \ \mbo$	4.5	

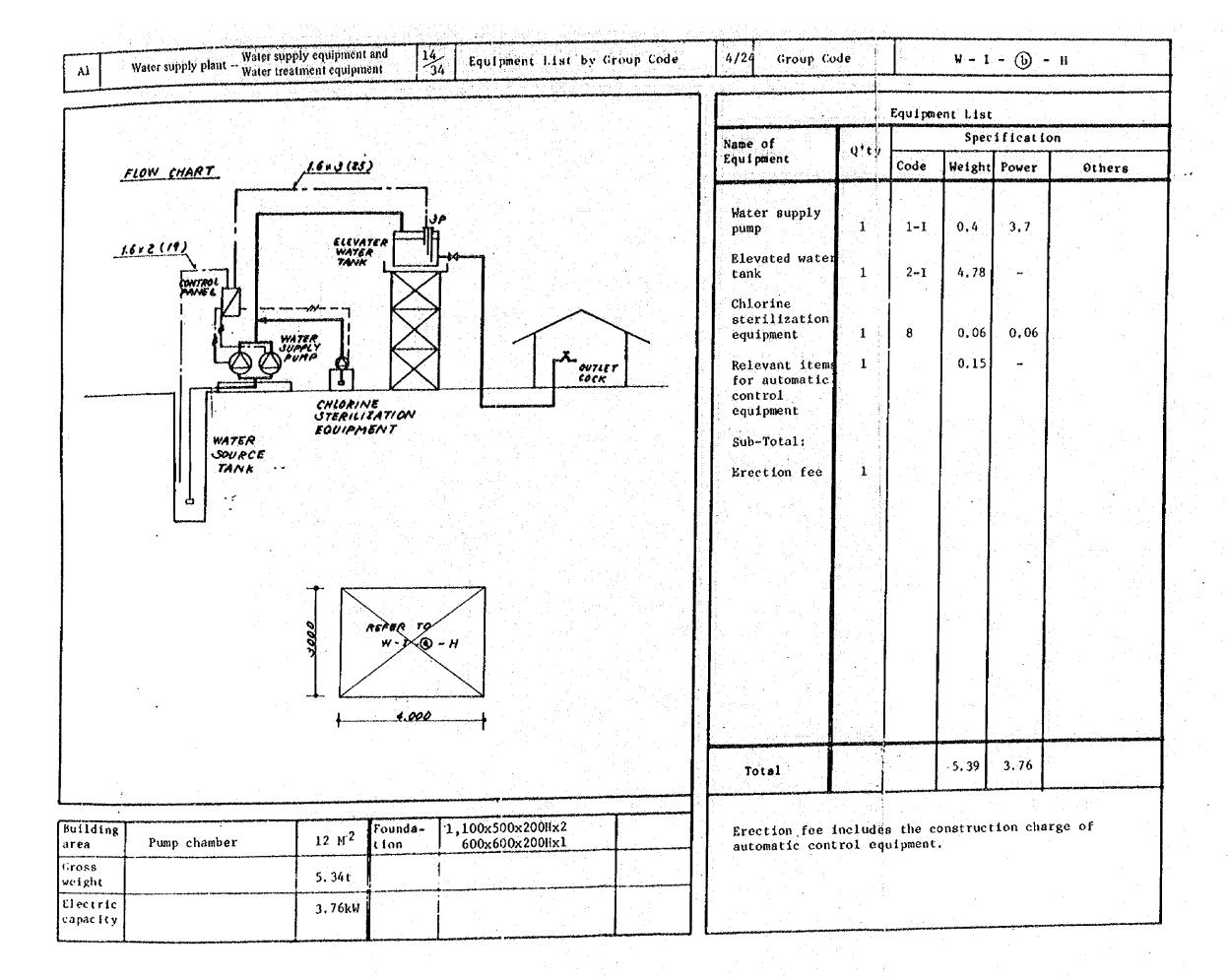
WATE	R SUPPLY - WATER TANK	LORRY	10/ 34	EQUIPMENT LIST	
	Water Tank Lorry		المناسبة ال	مان الرواقية المراقية br>- المراقية	
NAME		ئەسلىدە دەرۇپىي يېسىدىد دەرۇپىيىسىدىدىدى	مىلىدىنى ئەرىنى سىدىلىدىن مۇلەر ئىلىدىنى ئىلىدىن بىلىدىن. ئالىرىنى ئىلىدىنى ئىلىدىن ئىلىدىنى ئىلىدىن ئىلىدىن ئىلىدىن ئىلىدىن ئىلىدىن ئىلىدىن ئىلىدىن ئىلىدىن ئىلىدىن ئىل		
	Т		AL DATA	to a sold	
Body	Engine Type	: 4-c	ycle, d -line di	irect-injection, water cooled, esel engine	•
	Number of cylinders Total Piston Displacemen Max. Gross Output (SAE) Wheelbase Number of tires Optional Equipment	: 4 4 3 4 4 5 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	onrat 300 mm (  2 2  rge size  r cleane  haust br  ter leve  rning de  chometer  garette	radiator radiator r ake l, overheat, engine overrun vices	
Tank	Max. loading capacity Thickness Pump	. 3.	000 £ 2 mm 0 £/min	× 2 kg/cm <sup>2</sup>	

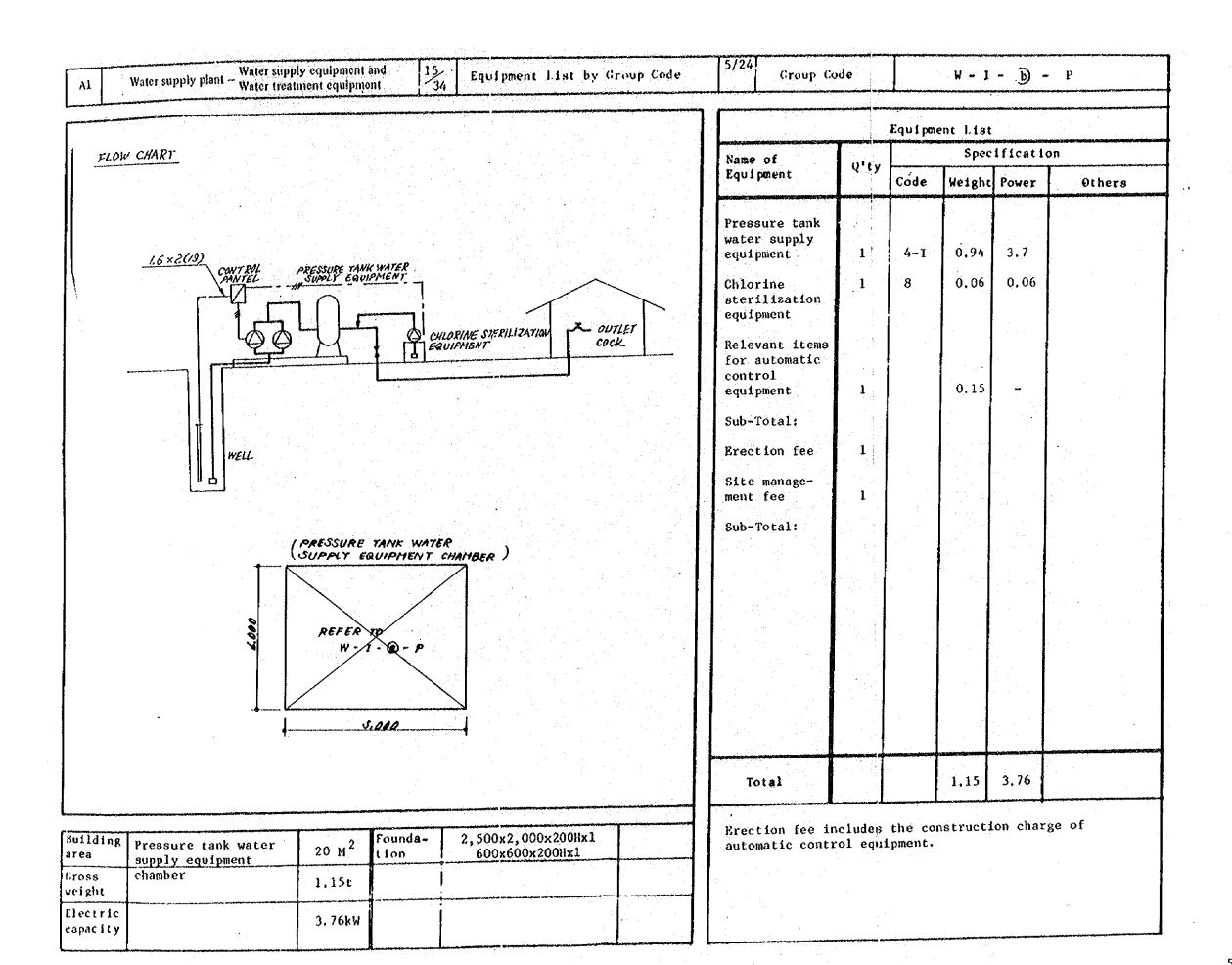
ITEM NO.	SPECIFICATION	A CONTRACTOR OF THE PROPERTY O	WEIGHT (T)	ELECTRI CAPACIT (KW)
			11.5	
				<u> </u>
REMARKS	and the state of t			
	and the same of th			
Weight; Top Bott	- Gross shipping weight om - Net weight			
	520			

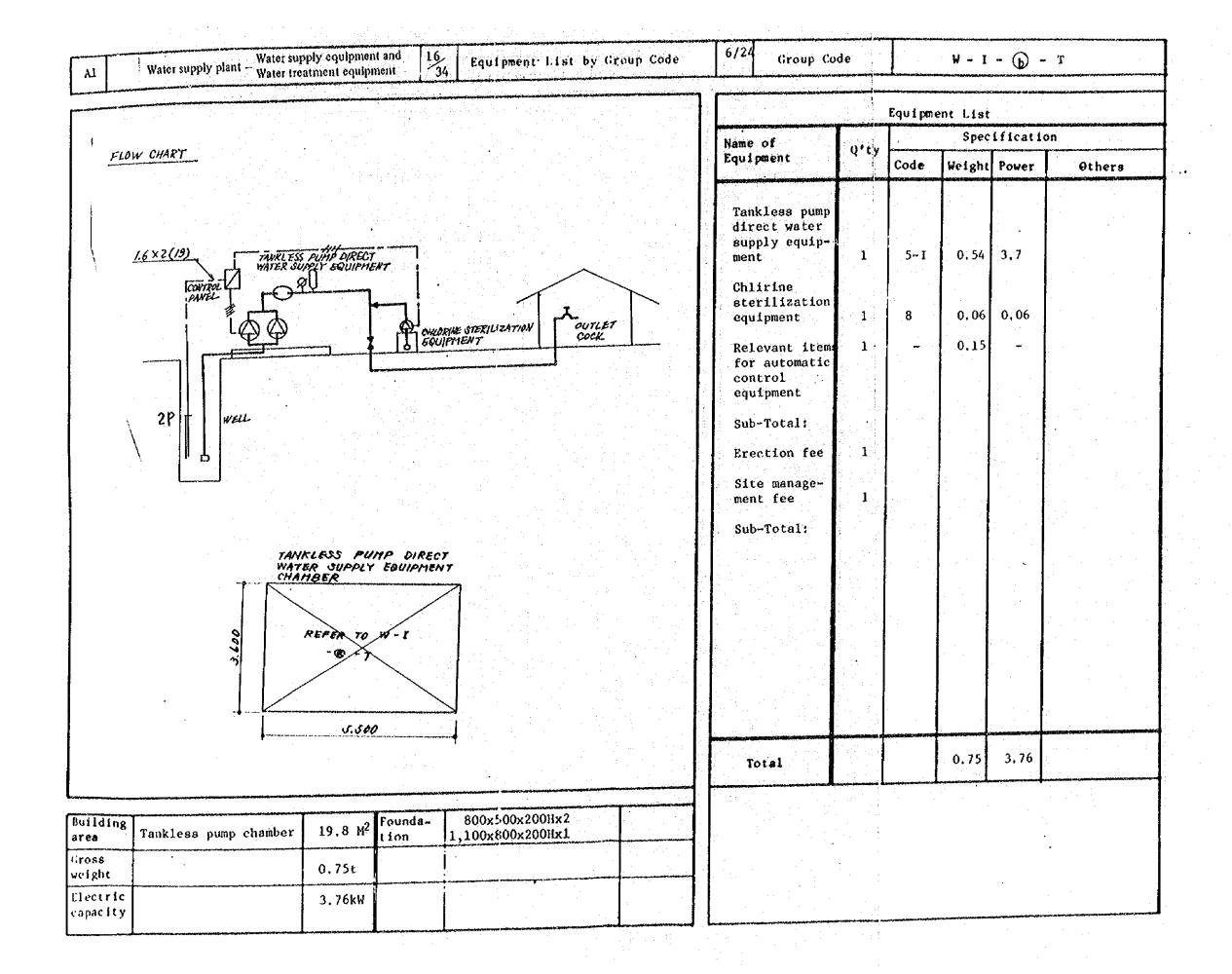


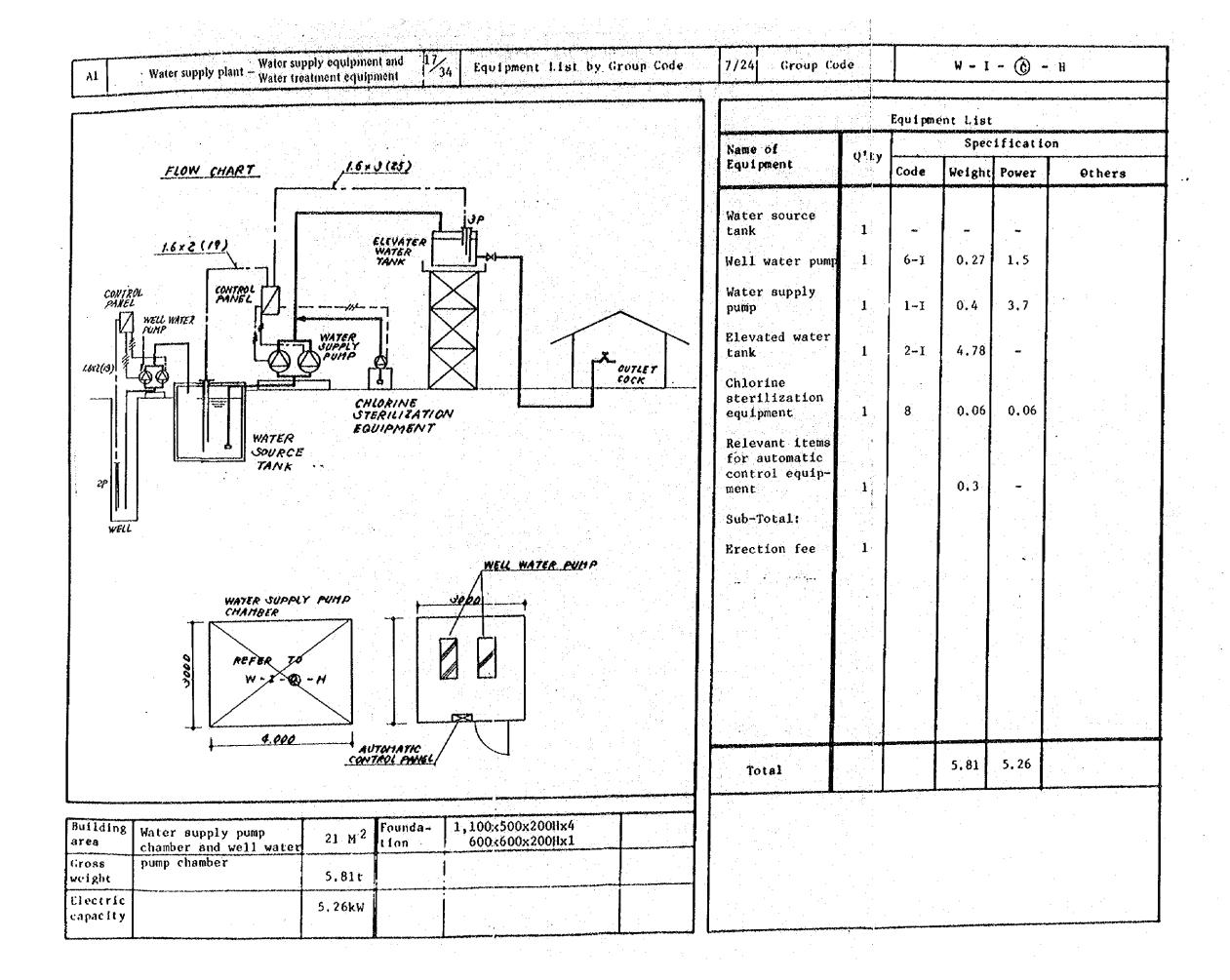


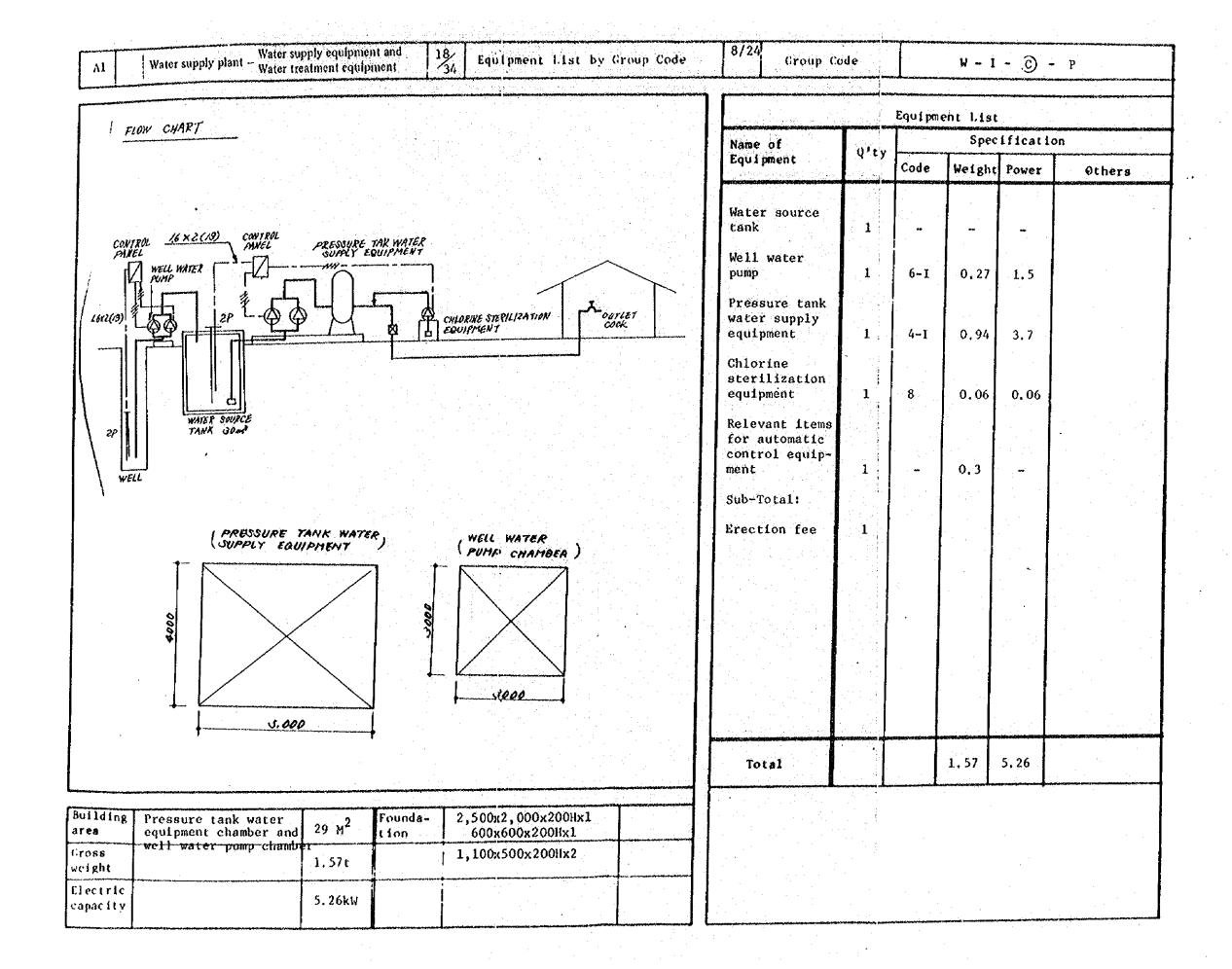


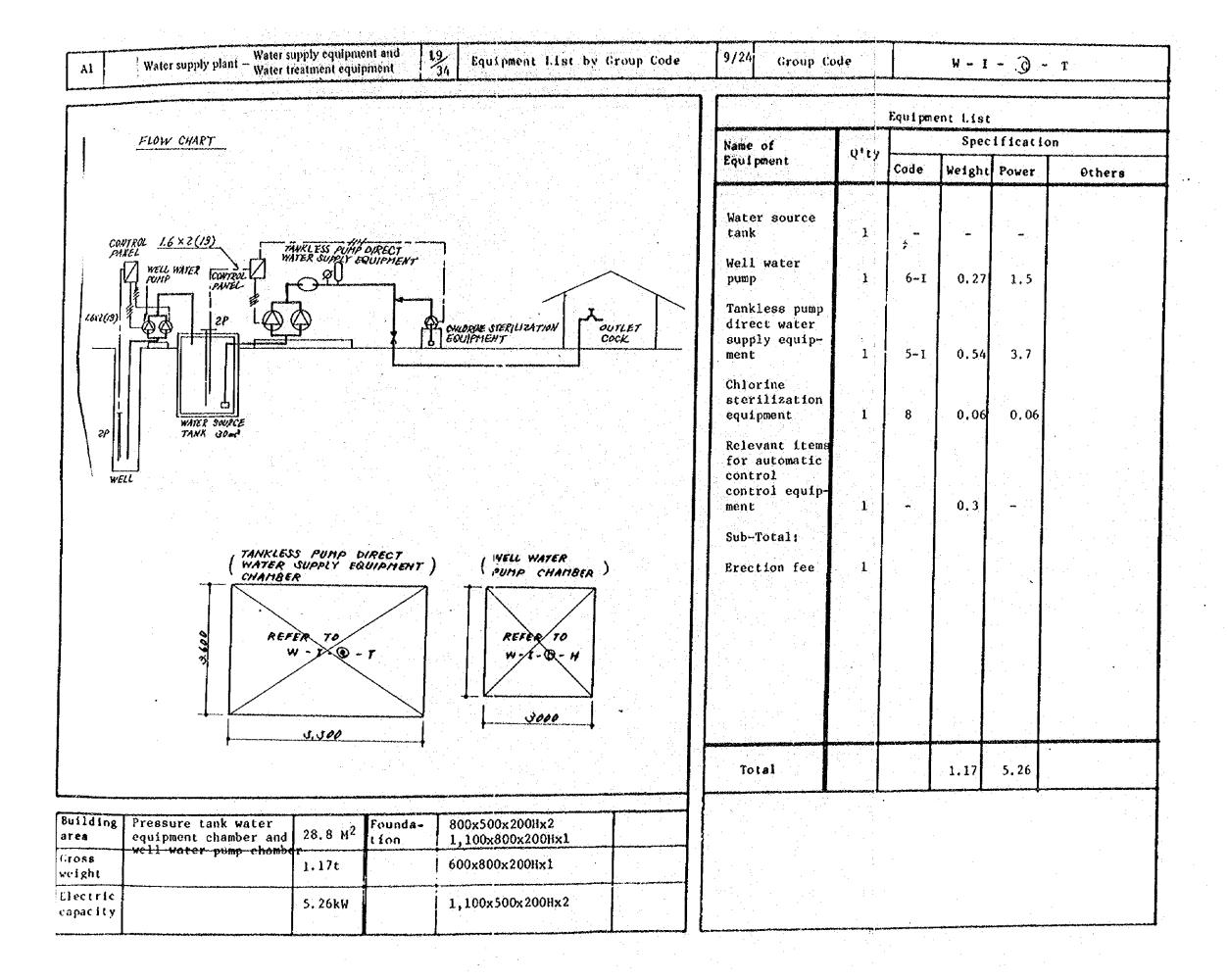


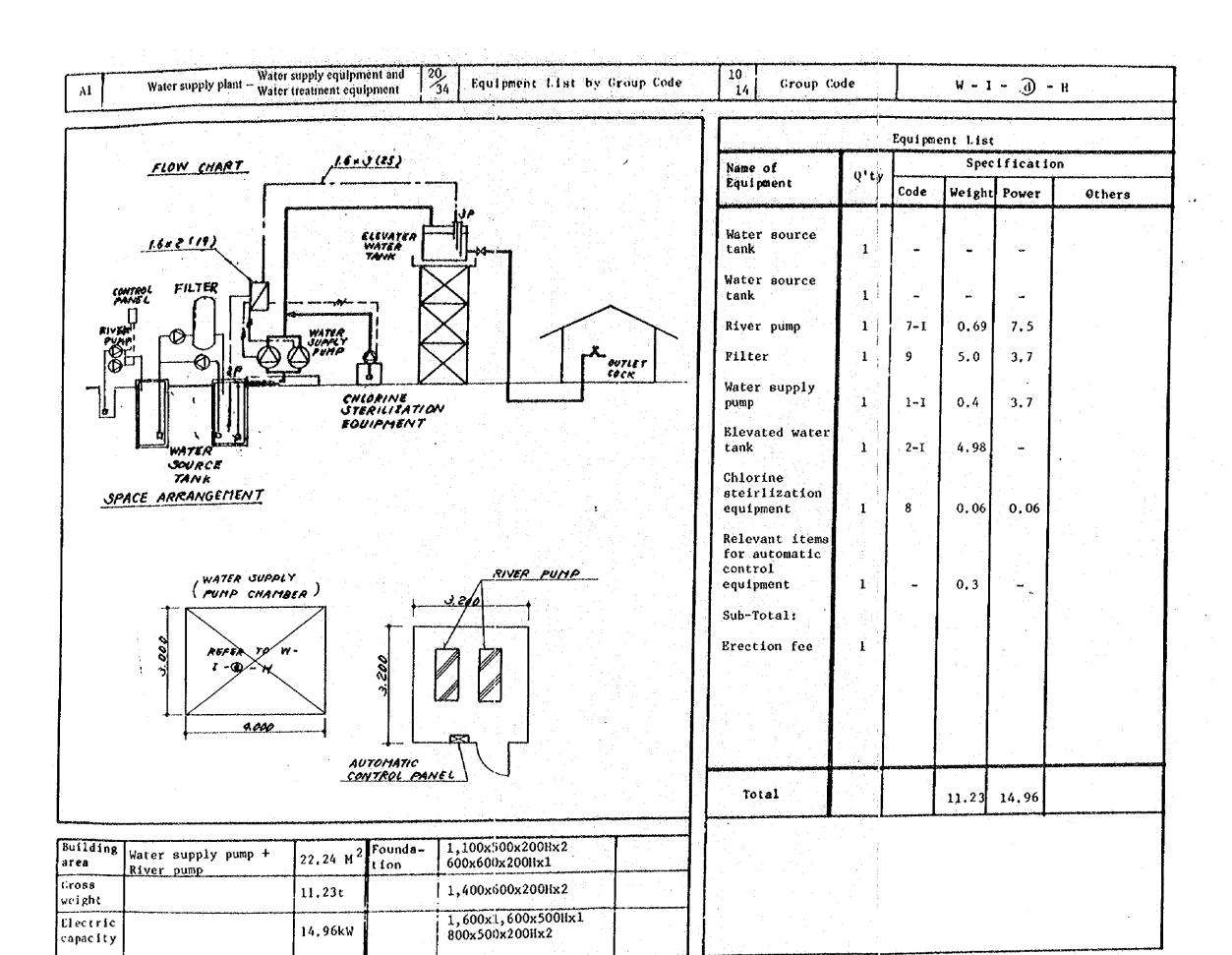


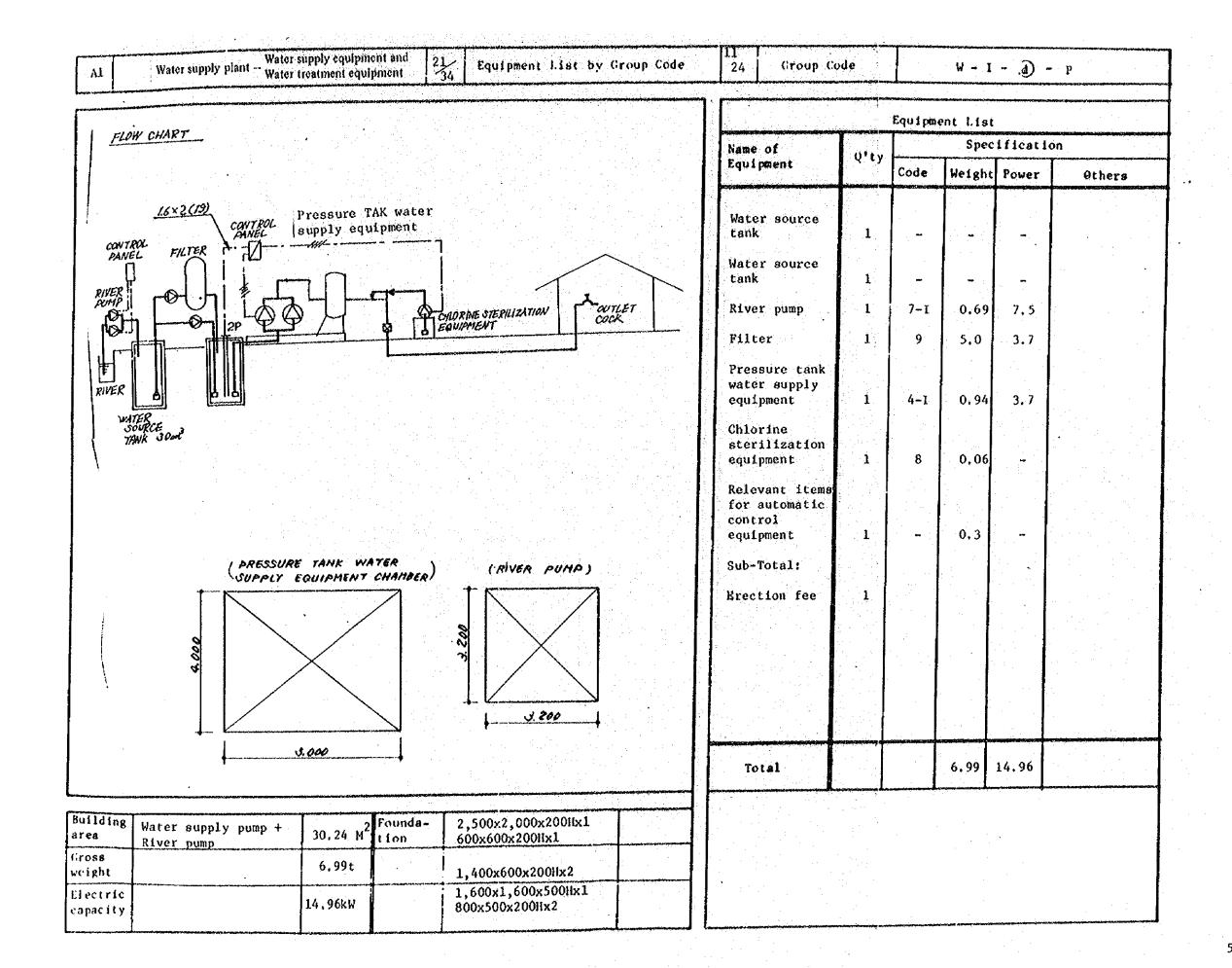


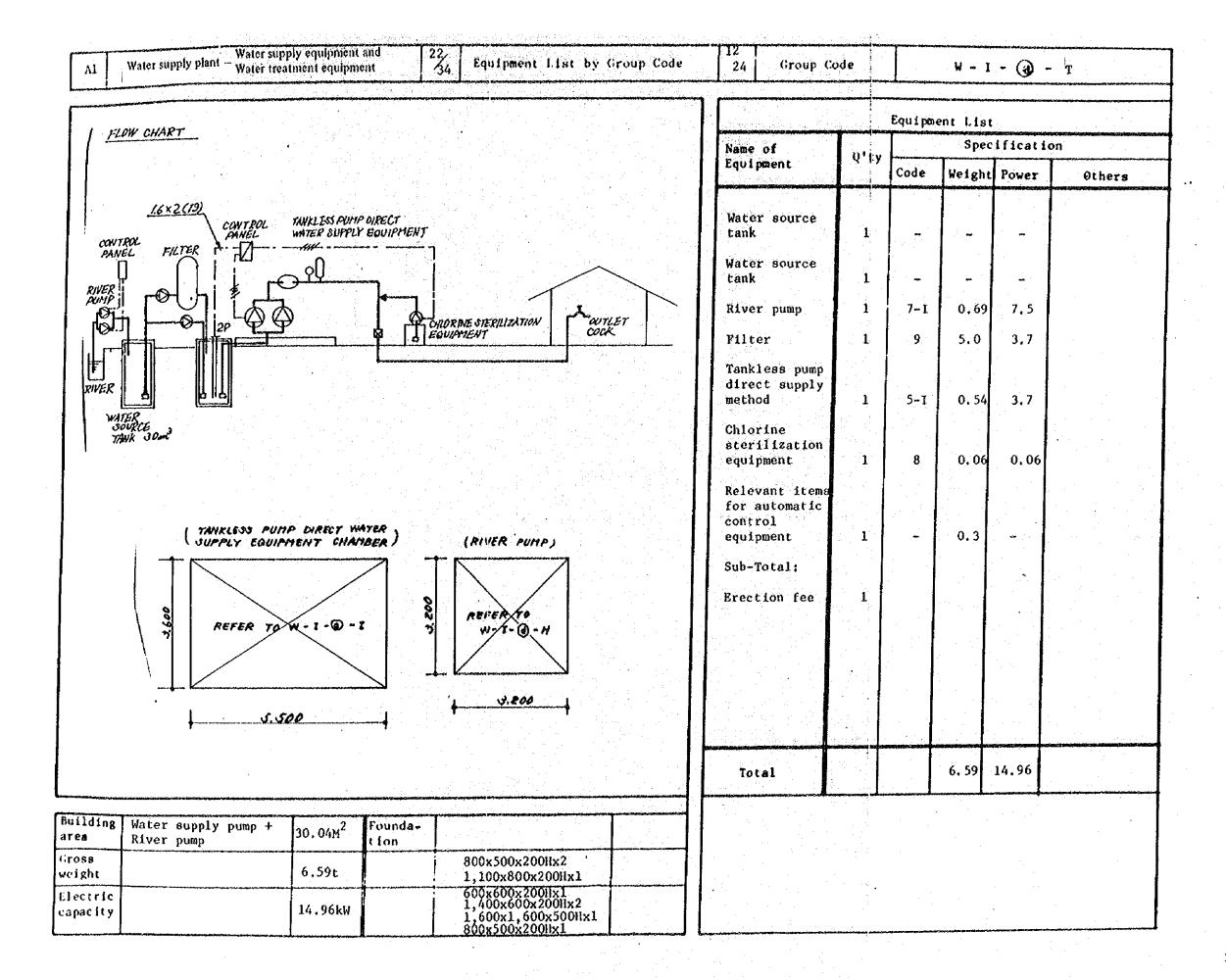


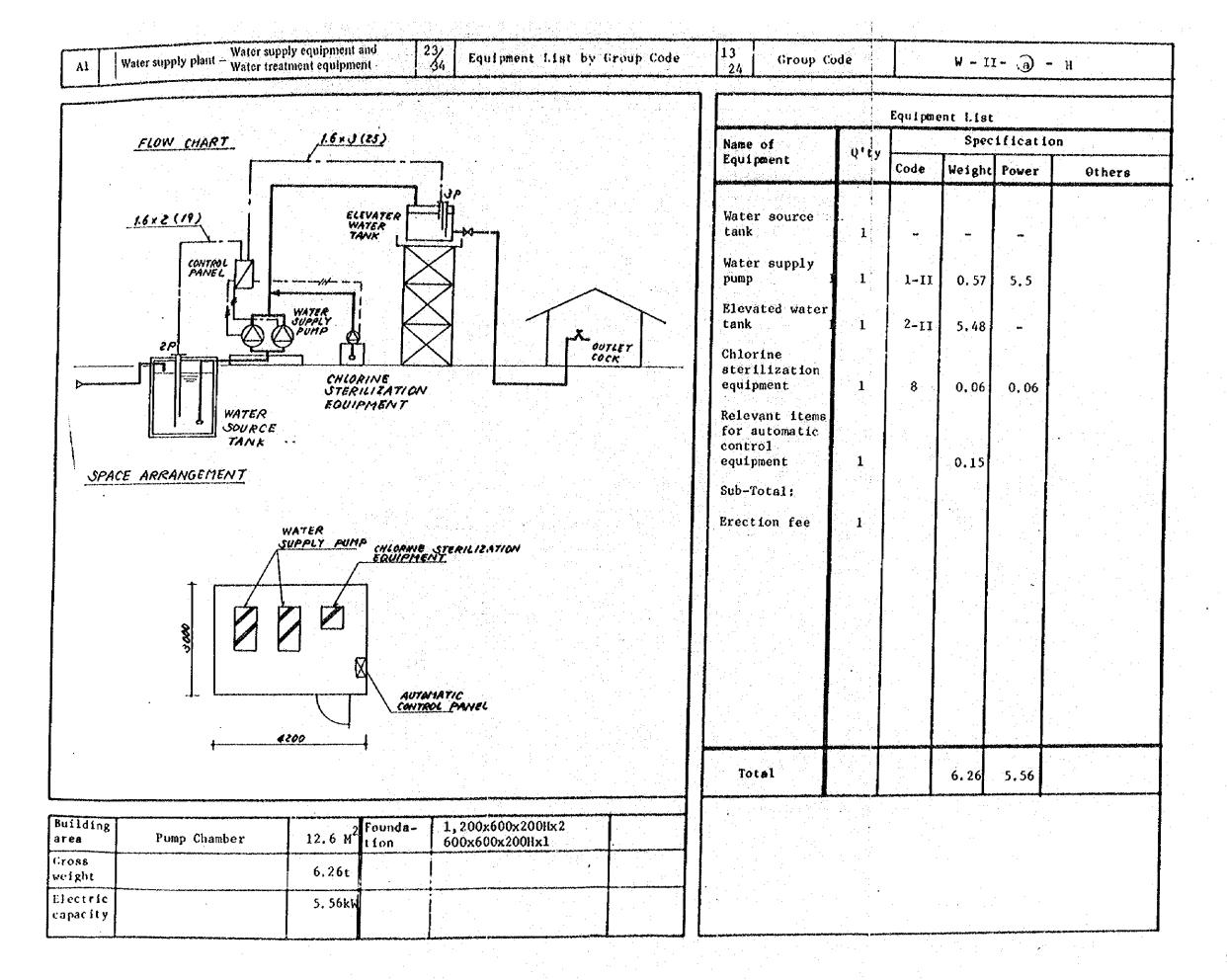


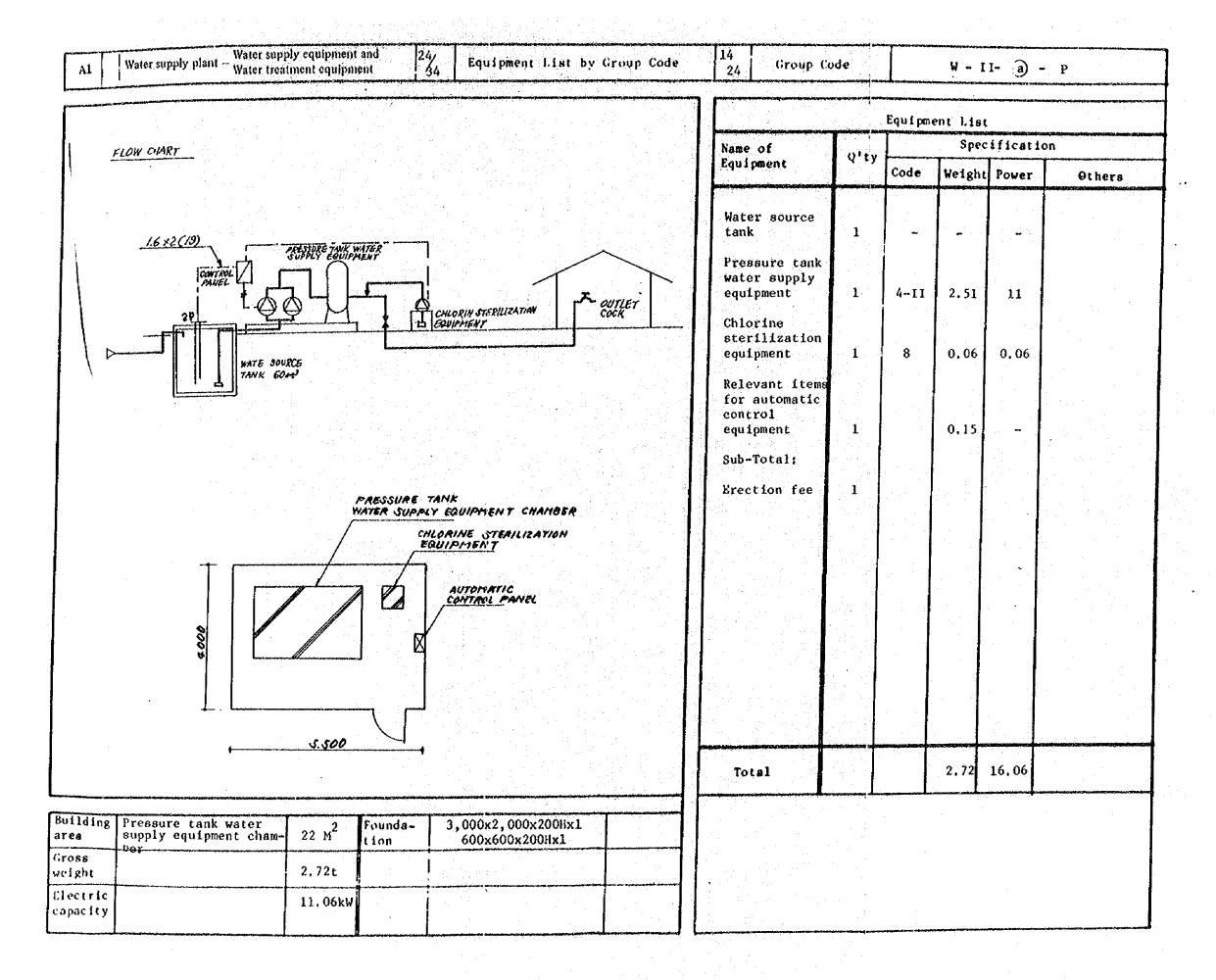


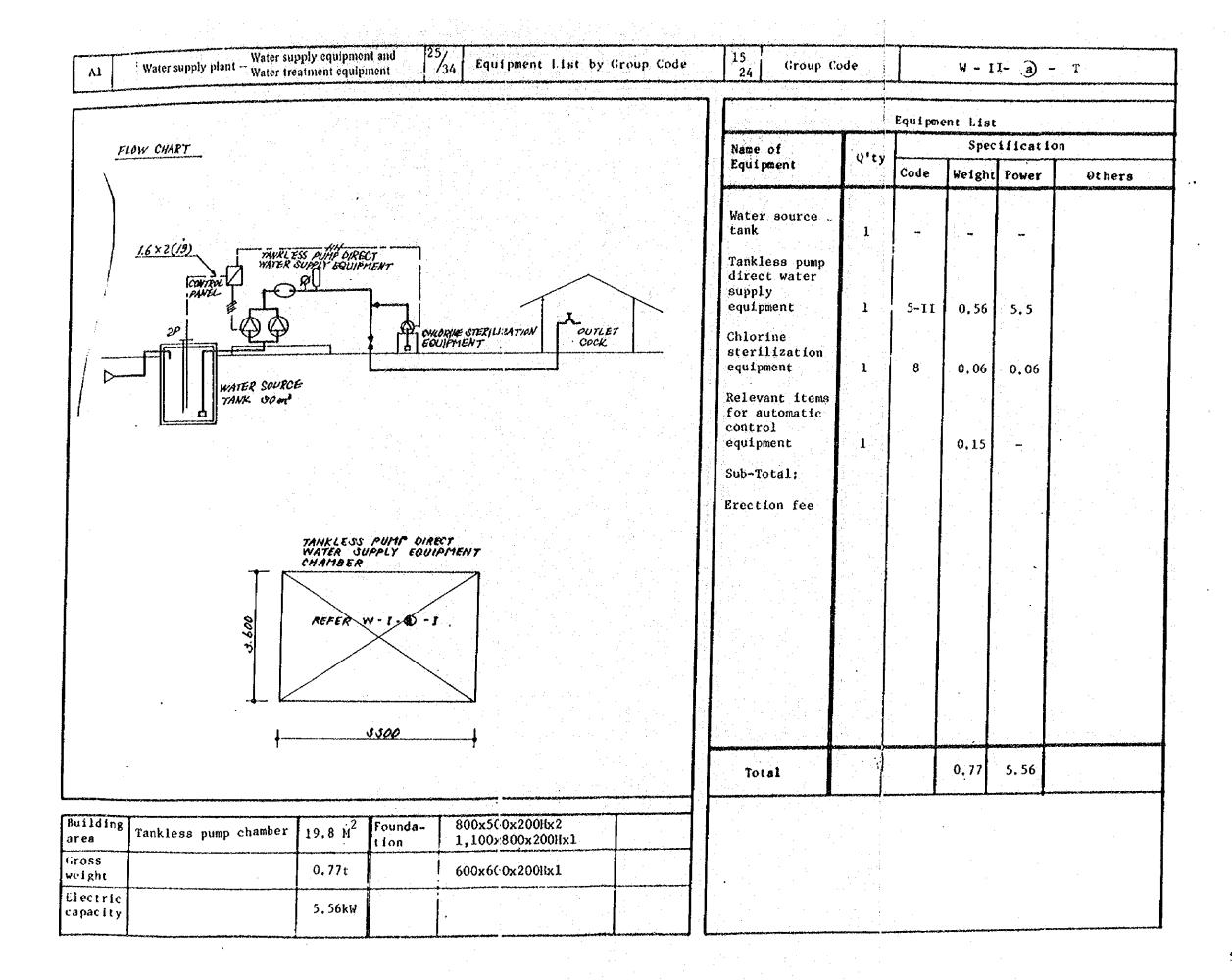


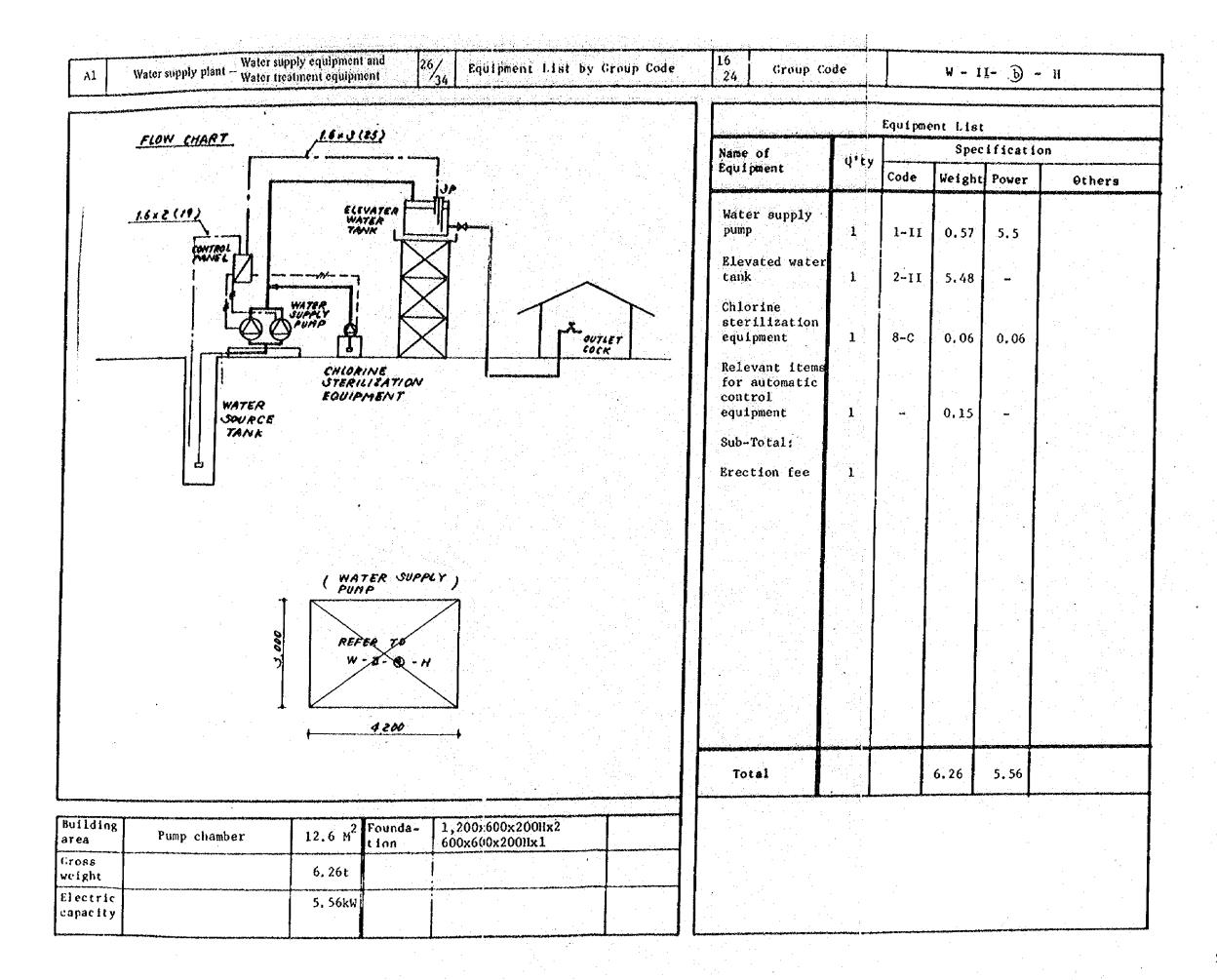


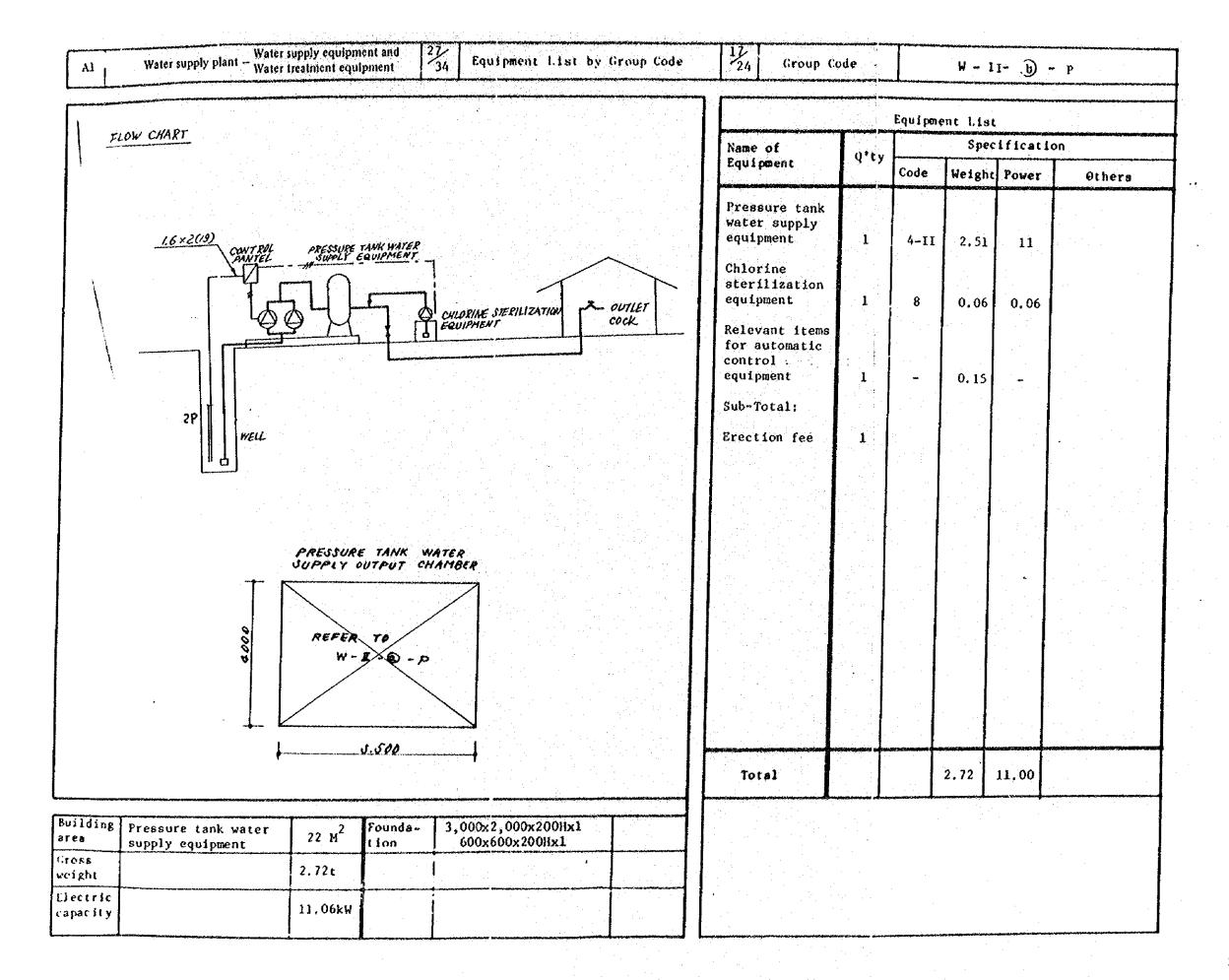


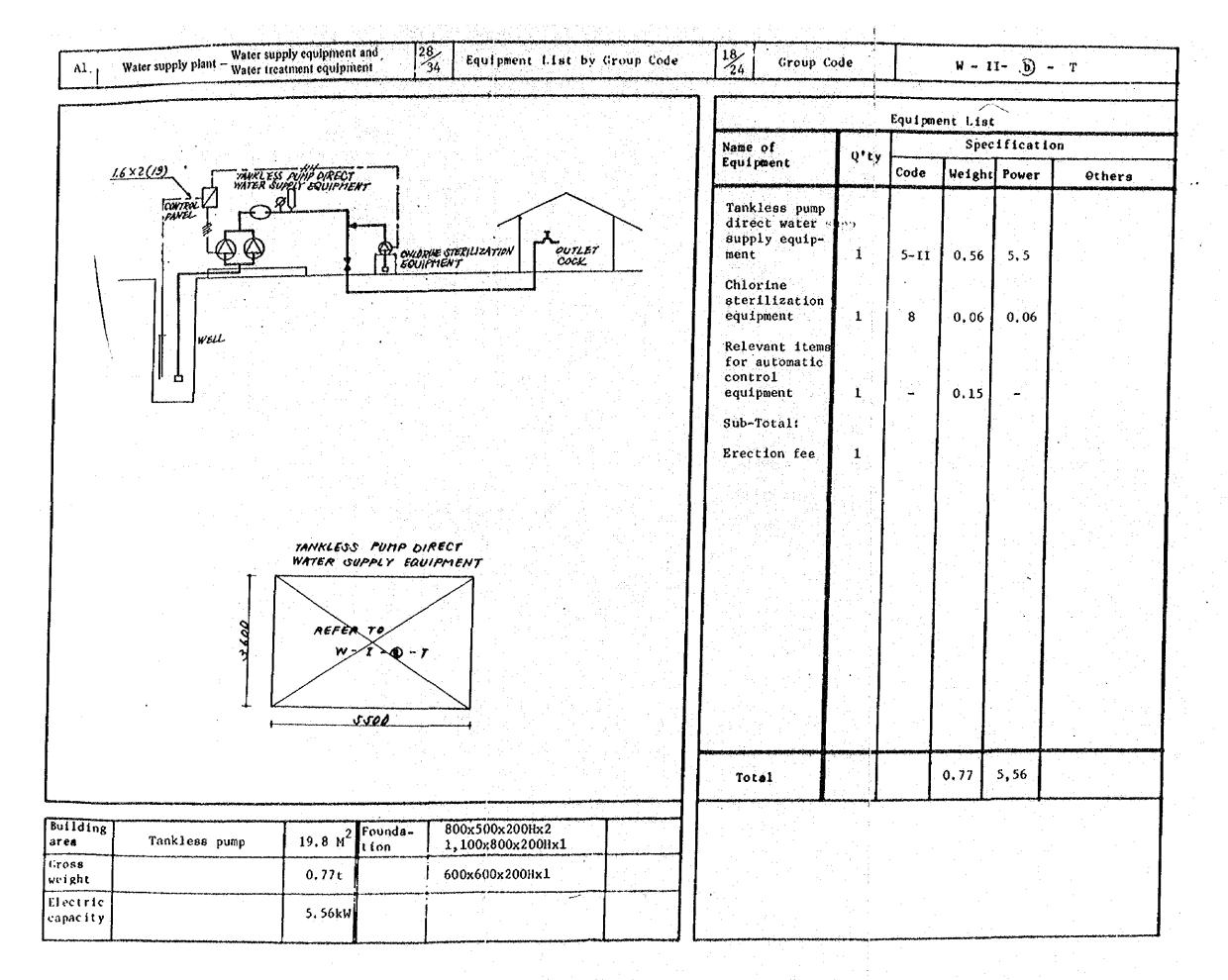


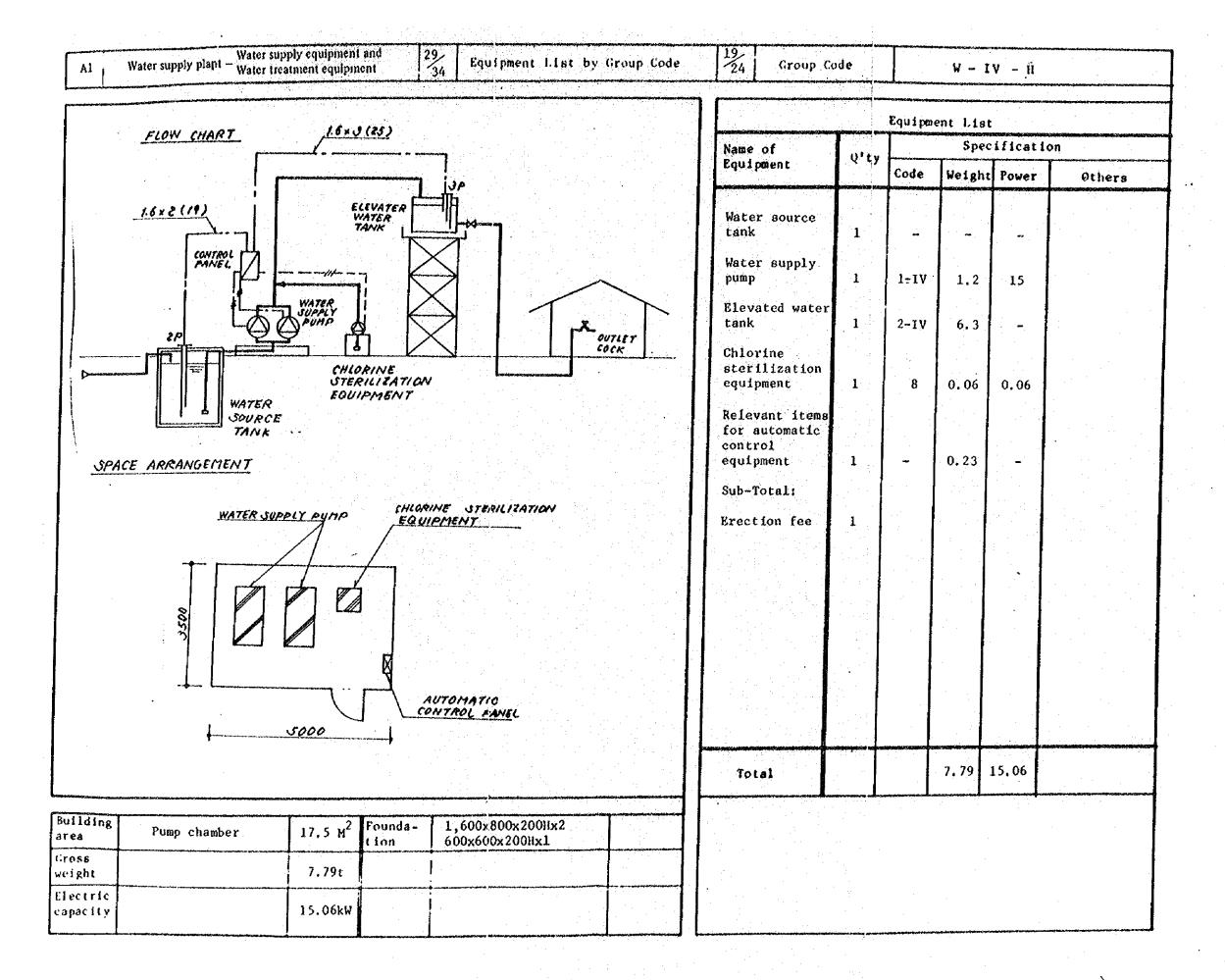


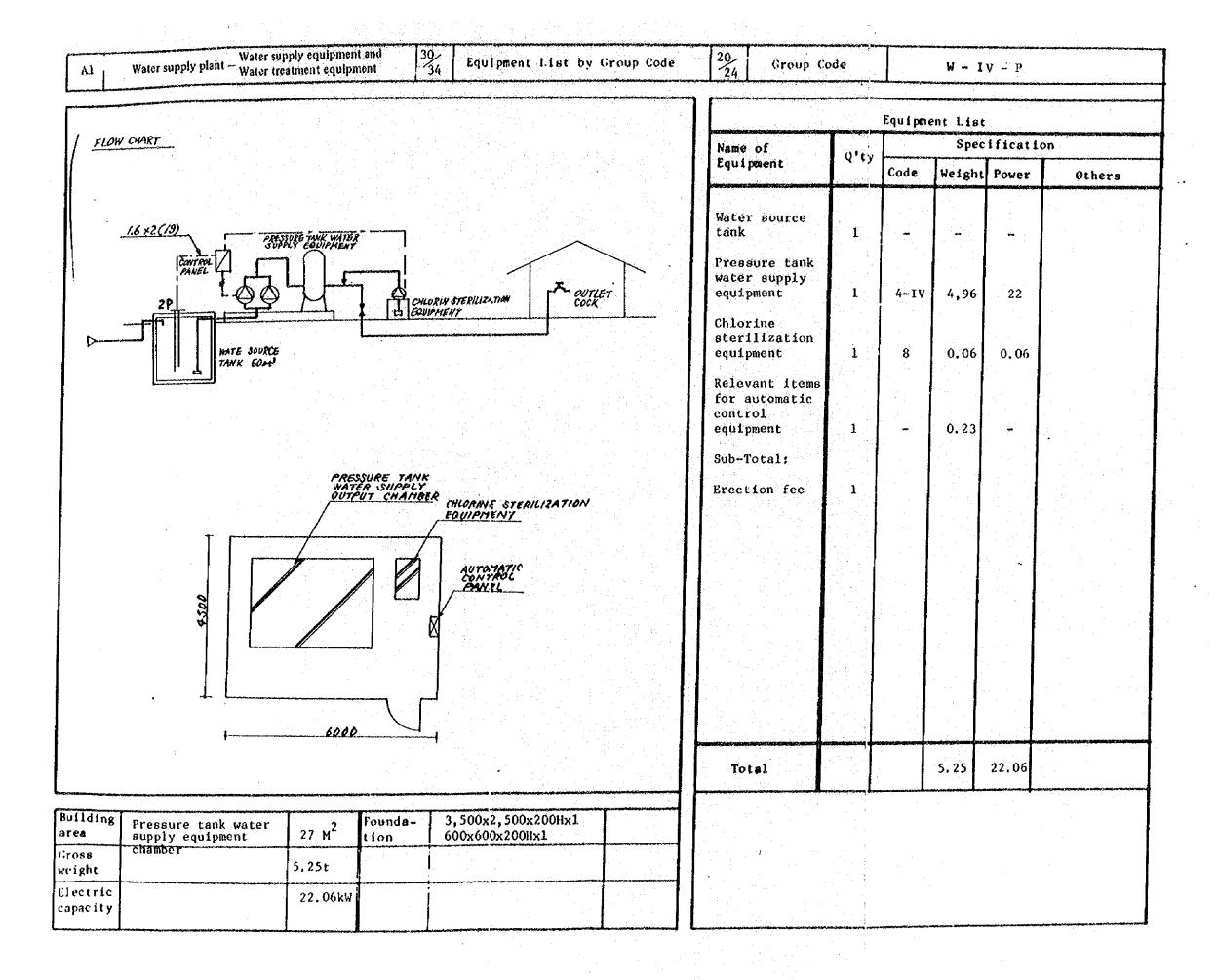


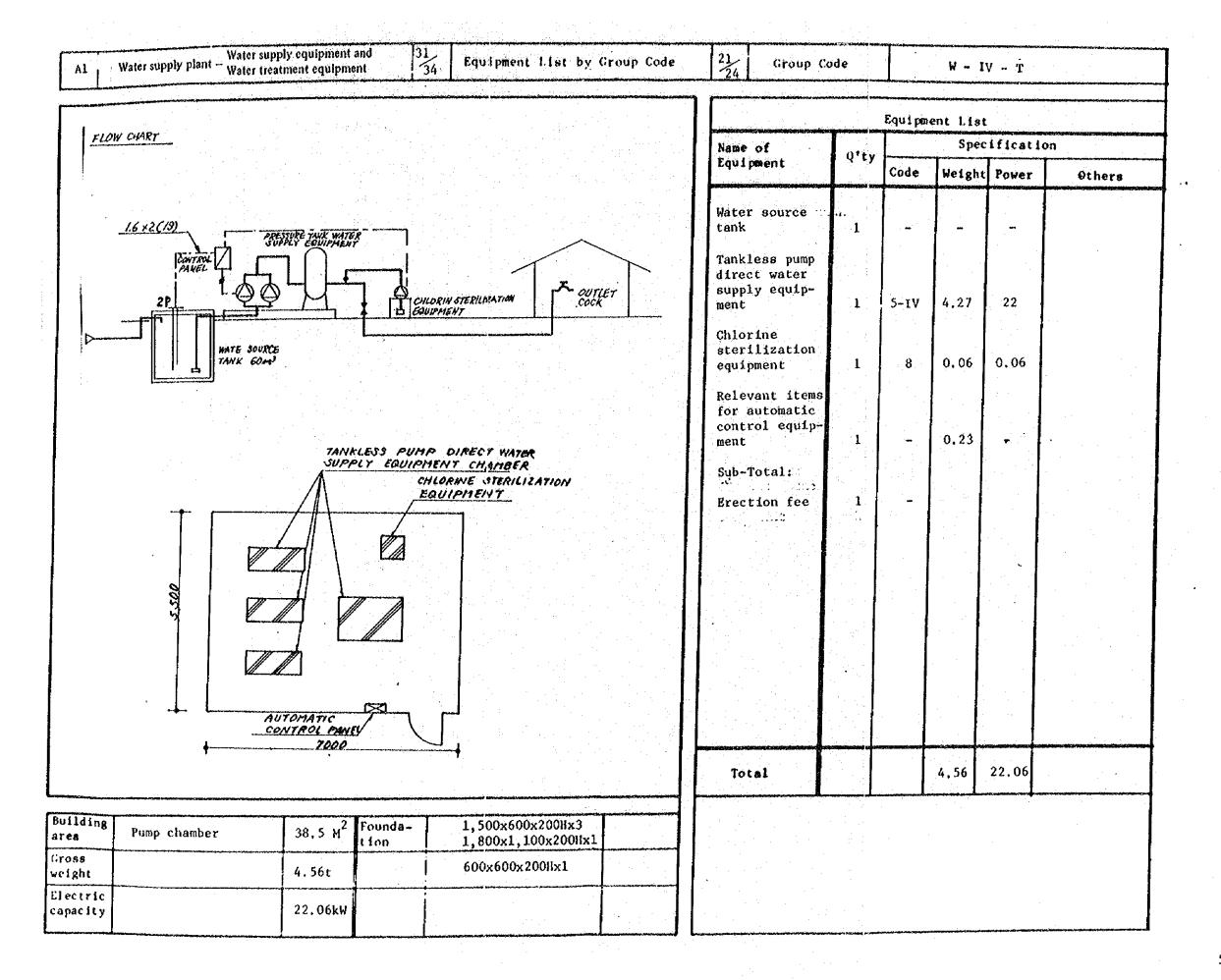


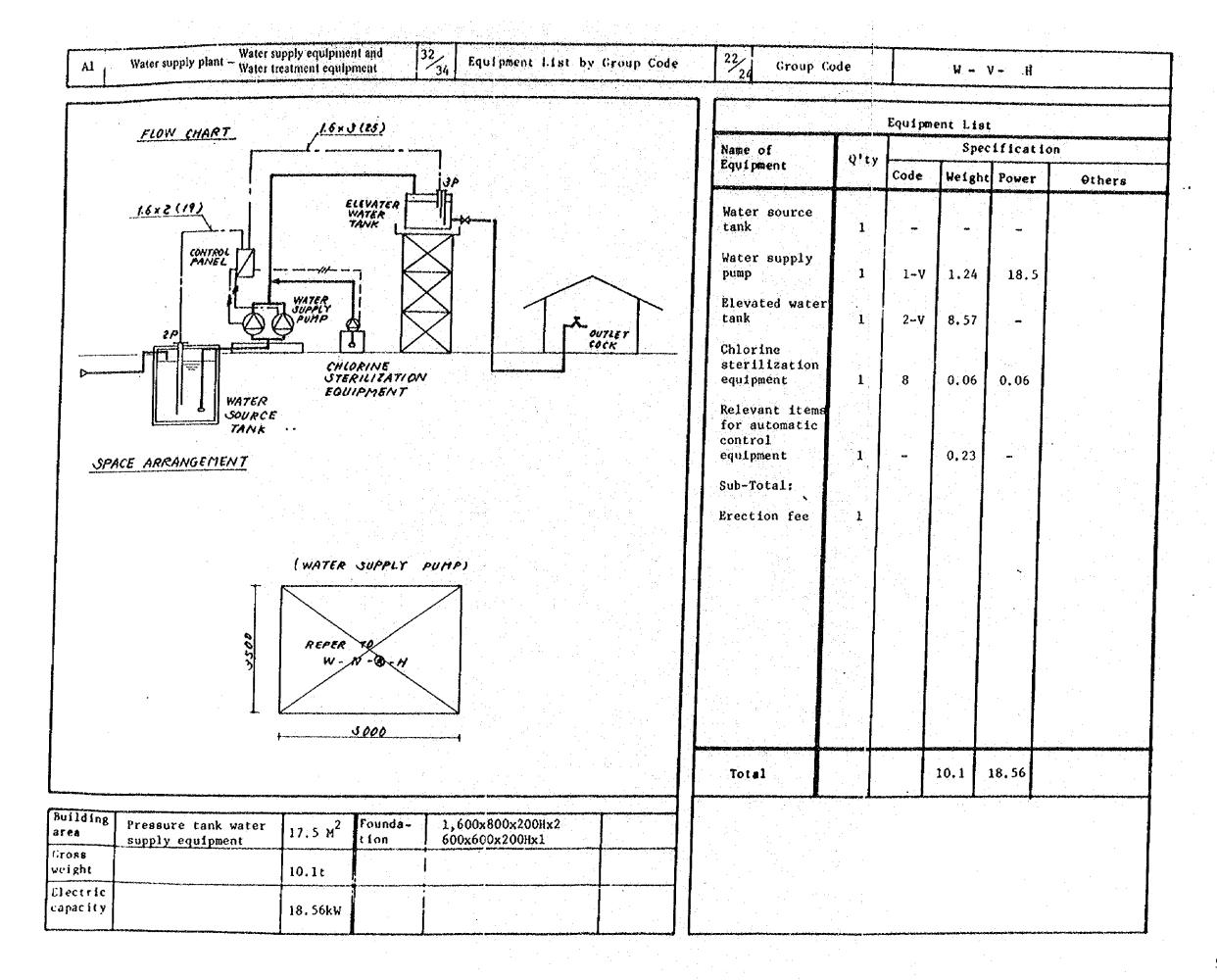


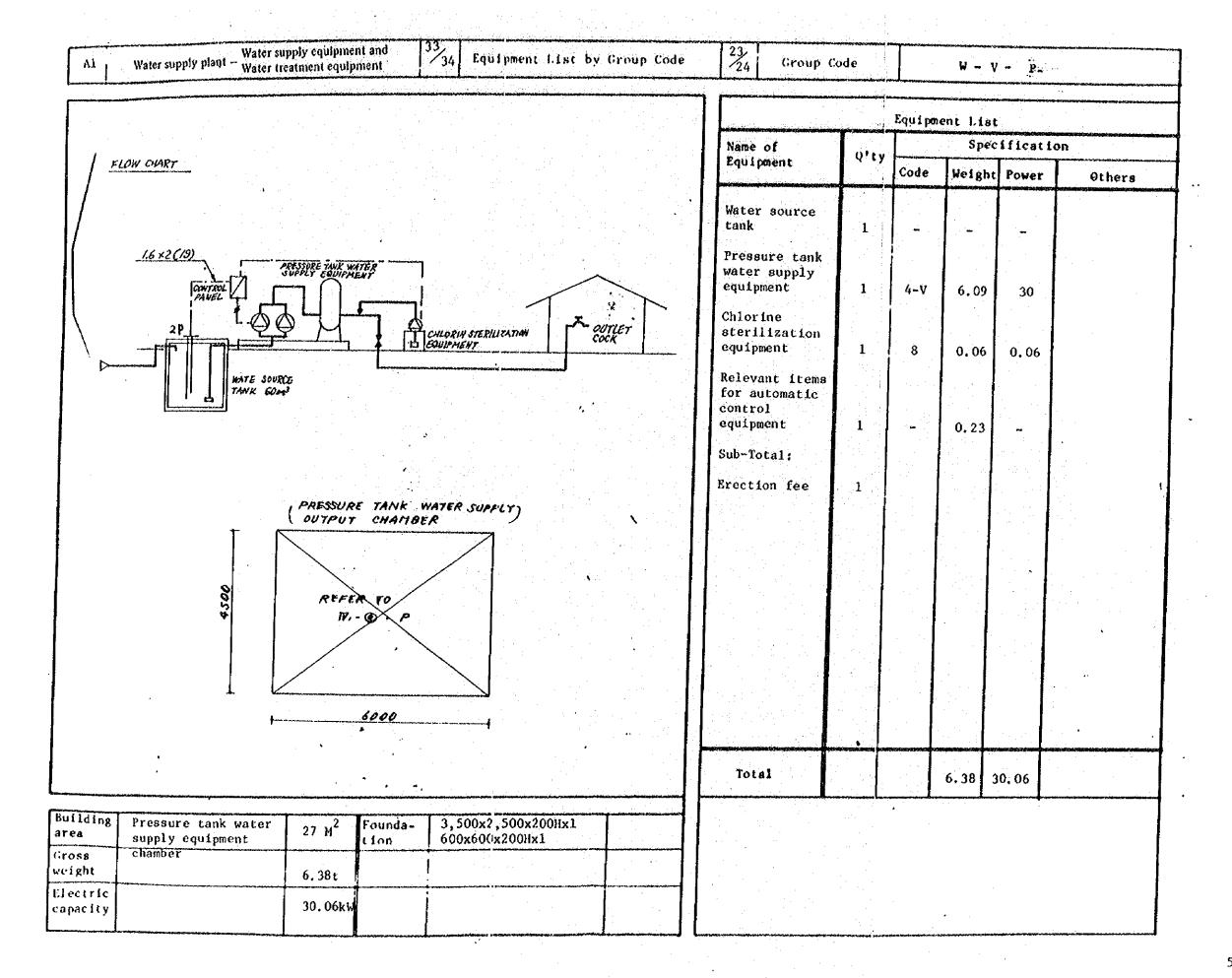


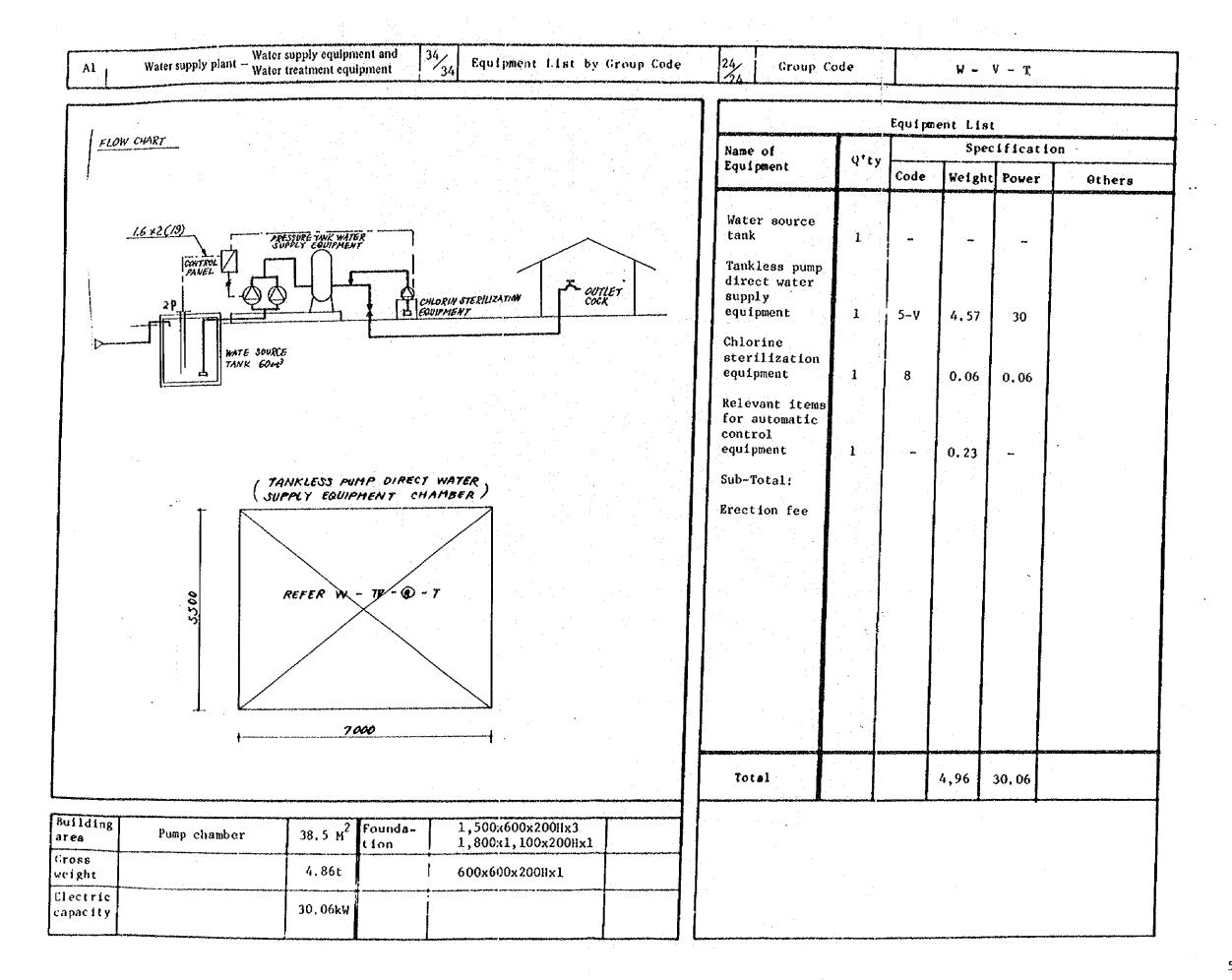












# WATER SUPPLY -- OUTSIDE WATER PIPING

1/9

NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Tondano	Galvanized iron pipes	3 "	100	
	П	2 1/2 "	80	
	11	2 11	120	
	l1	1 3/4 "	130	
	ji	1 "	300	
	. 11	3/4 "	200	en annual lang gemelh in hij eil eineann a saine in de delemen die delemen de de dele
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Gorontalo	Galvanized iron pipes	4 "	50	
	11	3 "	30	
	11	2 1/2 "	120	
	11	2 "	60	
	11	1 3/4 "	200	
	<b>H</b>	1 "	140	
	11	3/4 "	220	
				a kanandaman maganisid, ayak iana dabara irin ida dinya da iri da iri da ir
				and a supplementation of the supplementation of the supplement of the supplementation of th
		THE STATE OF THE S		



	NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
	Ujung Pandang	Galvanized iron pipes		200	
		11	4 "	50	
		11	3 "	160	
٠		<b>B B</b>	2 1/2 "	150	
ا		11	2 11	460	
			1 3/4 "	600	
		Н	1 "	700	
		11	3/4 "	800	
	Pare - Pare	Galvanized iron pipes	3 "	150	
		<b>"</b>	2 1/2 "	70	
		<b>u</b>	2 "	150	
		<b>11</b>	1 3/4 "	340	
		11	1 "	300	
		11	3/4 "	550	
		Galvanized iron pipes	3 "	30	Martin Printer and year of year course and same assumption of the state of same processing.
					ter in amount on a survivir of a decreased to the country of decreased to
				A September out out the second occurs of the second occurs occurs on the second occurs of the second occurs occurs on the second occurs occurs occurs on the second occurs	
				AND A SECOND OF SECOND SECOND	
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NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Palopo	Galvanized iron pipes	3 11	80	
	H	2 1/2 11	70	·
	j į	2 "	310	the company of the second
	11	1 3/4 "	160	
	u	1 "	60	
	II.	3/4 "	220	
Soppeng	Galvanized iron pipes	3 "	110	
	15	2 1/2 "	60	***************************************
	11	2 "	190	
	11	1 3/4 "	60	
		1 "	70	
		3/4 "	200	
				paga palaman ng muniqui nga nga katala diptarah manaka (di karina 97-194).
				anas pipususususususus envaraennyttii
	STATE STREET, STATE OF THE PROPERTY OF THE PRO	eriggeroprotestates de la c		



NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Tenr 1 awaru	Galvanized iron pipes		330	# 1
	<b>N</b>	2 "	360	
	<b>H</b>	1 3/4 "	240	
	1	1 "	230	
	11	3/4 11	300	
		**************************************		
			<del></del>	
	***************************************	MP-W-S-OFFE T-S-VIEW-CS-	***************************************	chail tar to manacharacharacharacharachar
Elim Rantepao	Galvanized iron pipes	3 "	200	
	11	2 1/2 "	40	
	И	2 "	120	<u>,</u>
	<b>51</b>	1 3/4	170	
	11	1 "	140	
	11	3/4 "	300	
		**************************************		
				<u></u>



NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Bantaeng	Galvanized iron pipes		100	
	ls	2 1/2 "	20	
	ti.	2 "	140	
	11	1 3/4 "	100	
	T B	1 "	50	
	11	3/4 "	230	
	-		-	
Medan				
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name of Hospital	MATERIAL OF PIPES	SIZE (E	LENGT (m)	H REMARKS
Pematang Siantar	Galvanize iron pipe	d 4 "	470	
	11	3 "	250	
	11	2 1/2	" 150	
		2 "	600	
	11	1 3/4	1,200	
	"	1 11	1,650	
	11	3/4 "	1,000	
	and a second comments of			
Tartung	Galvanized iron pipes	4 11	180	
	Н	3 "	120	
	Ü	2 1/2 "	200	
	п	2 11	510	
	11	1 3/4 "	700	
	11	1 11	1,000	
	11	3/4 "	700	
	Galvanized iron pipes	4 11	3,000	outside of site
			er er 1914 graphydd 1944	ENCOUNTERENTATION CONTRACTOR



٠.	NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
	Kisaran	Galvanized iron pipes	3 "	10	
		0	2 "	1,000	
		<b>U</b>	1 "	540	
		n	3/4 "	300	
:					
	Rantau	Galvanized			
	Prapat	iron pipes	3 "	10	
			2 1/2 "	240	
		0	2	400	
		10	1 3/4 "	200	
		II.	1 "	320	
		N	3/4 "	250	***
					***************************************
					-beginning through the gray through the special of the control of the special control of the special of the spe
		<del>opisalesta externit</del> est	TO STATE STATE OF THE STATE OF	iborezakoanus per l	
		16			



	NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
	Tebing Tinggi	Galvanized iron pipes		160	
		11	2 1/2 "	80	
		11	2 "	180	
		tí.	1 3/4 "	120	
		11	1 "	130	
		11	3/4 "	200	
					*
	Tanjung Balai	Galvanized iron pipes	3 "	70	
		11	2 1/2 "	50	
		u	2 п	210	
		u	1 3/4 "	230	
			1 "	370	
		•	3/4 "	300	
		Vinyl pipes	3 "	-	outside of site
					Allered Services and Allered S
				DES ILKSESUCKY),	······································
<u> </u>		-			



NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Rorsea	Galvanized Iron pipes	3 "	10	
	11	2 1/2 "	20	
	11	2 "	130	
	11	1 3/4 "	130	
	H	1 "	40	
	0	3/4 "	1.80	
	Galvanized Iron pipes	3 "	500	outside of site
			de de la companya de	
		***		
		******************************		•
				······································
				***************************************
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				enterior de la compansa que enterior de la compansa
				P. P
		* S. T. Control of the Control of th	CENTER OF THE PERSON OF THE	data (ili interioria) para para mana di seria da seria d

# 5-3 Kitchen (B)

# ° List of kitchen appliances

Name of appliance	Gunung Werang Vjung Pandang Medan	Other hospitals
Kitchen tables	o 1)	o 2)
Rice cookers	o 3)	×
Fryers	o 1)	x
Tilting pans	0 1)	х
Refrigerators	o 1)	o 1)
Sink appliances	0	. O
Working tables	0	0
Racks	0	o
Automatic dishwasher	o 3)	x
Serving wagons	•	0
Flatware and other fixtures	0	0
Disinfectors	o 3)	o <sup>2</sup> )

- 1) Operates on electric power
- 2) Operates on kerosene
  - 3) Operates on steam

B KITC	HEN	1/23	EQUIPMENT LIST	1/17
				·
NAME	Cooking Table (Kerosene	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		IVOIT DIM		

Body Frame

; Steel angle L 5  $\times$  50  $\times$  50 m/m

Top Plate

: Cast iron t = 12 m/m

Apron

: Stainless steel SUS 430, t = 1.2 m/m

: Stainless steel angle SUS 430, L  $3 \times 40 \times 40$ 

Adjust Ball

: Cast iron crome plated.

Burner

: Kerosene burner, vaporized type, 120,000 Kcal per each burner,

with vaporizing heater.

Vaporizing Heater: lp/100v/0.6 kw per each burner. This heater shall be operated

about 5 % 6 minutes before burner ignitioned for vaporrize kerosene, and stopped automatically after burner ignitioned.

Burner Ring

: 6 320 m/m, cast iron

pare Parts

0,1,111 4 burner model Dim. 1,800 × 750 × 850 m/m  3 ourner model Dim. 1,400 × 750 × 850 m/m  0.32	ELECTRIC CAPACITY (KW)
Dim 1 400 v 750 v 250	2,4
	2.0
MARKS	

ight; Top - Gross shipping weight Bottom - Net weight

ji.	KITCHEN	2/23	EQUIPMENT LIST	2/17
	NAME Cooking Table (Electric)			

mdy Exterior: Stainless Steel SUS. 430, t = 1.0 m/m

Plate : Plate Heater, 3p/220v/15kw.

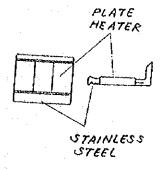
witch : 3-step Switch. (High, Middle, Low.)

ingermostat : High cut thermostat.

Mider Cabinet: Open Cabinet type w/ shelf.
Adjustable Leg: Cast Iron, Crome Plated.

Spare Parts : 1 Pilot Lump

1 Switch Knob



em no.	SPECIPICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
- IV,V	Dim. 900 × 970 × 850 m/m	0.3	15
Marks		المستورية والمستورة	ito ( griffin angura ) Ngapatatan satu ta v

Might; Top - Gross shipping weight Bottom - Net weight

		And the second s	
KITCHEN	3/23	EQUIPMENT LIST 3	/17
The state of the s	······································		

Rice Cooker (Steam operated.)

#### TECHNICAL DATA

Bdy

Body shall be constructed of 9 m/m thickness steel plate and 1.2 m/m thickness steel plate exterior with glass wool insulation between double wall. Inside the body, unit shall have shelfwith pipe roller which can be easily to put in or taken out cooking pan. The unit has cast-iron legs at lower part and legs are fitted to the floor with anchor bolt.

**0**01

Door shall be constructed of 9 m/m thickness steel plate and 0.8 m/m stainless steel exterior. Door shall be opened or closed by rods installed radially by operating handle.

Control System

: It shall be operated on pressure switch and steam supply and drain velves are open and closed. Steaming timer is controlled by a timer. Control box is provided with pressure gauge, thermostat, timer, switches, and indicating lump.

Max.Steam Pressure: 0.9 kg/cm² Standard Accessory: Cooking Pan.

15 pcs for Model RCS-5, 21 pcs for RCS-8.

EM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
IV	75 kgs cap.	1.2	0.1
	Dim. × × m/m Steam consumption: 64 kg/Hr		
V	kgs cap.	1.6	0.1
	Dim. $1,400 \times 1,150 \times 1,920 \text{ m/m}$		
	Steam consumption: 108 kg/Hr		
MARKS			

ight; Top - Gross shipping weight Bottom - Net weight

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Ł			1.0					100						1
Εl					. ( ) ( ) ( )				اممدتنا	l .	TEATER TO SERVICE			1
ŧΙ	200			100	the second second				1.722		EOUTPMENT	1 157	1, 1, 5	1
		TY HK	N					9	7/4/		*** ** * * * * * * * * * * * * * * * *	DIDI .	V1/1/	
1	V 1	TCHE	• •							1.	•	•	F1 / A. /	1
		4.0	4.0	ARTON AND AREA	25 7.8	A STANDARD LAND	سحم وعدف سدم	and the resident	10.00	The second second second				ı
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μ.	ويونونونون ر			11 11 11 11	. 17 . 17 . 1	1. ·	4.74							•

NAME Fryer (Bleetric.)

## TECHNICAL DATA

Redy | Stainless Steel SUS. 430, t = 1.0 m/m

in Plate : Stainless Steel SUS. 430, t = 1.2 m/m

Basin : Stainless Steel SUS. 430, t = 1.2 m/m with oil cock.

Heater : 3p-220v-9kw

Robertshow 300°C Robertshow 300°C (two) baskets.

Ord Drain Board: Stainless Steel SUS. 430, t = 0.8 m/m

Dimension:  $450 \times 970 \times 850 \text{ m/m}$ 

Spare Parts : Thermostat 1 (one)

Pilot Lamp 1 (one)

doral no.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
A IV,V	As above.	0.3	9.0
REVARKS			

ght; Top - Gross shipping weight Bottom - Net weight

			7
KITCHEN	5/23	EQUIPMENT LIST	5/17
mark the second	H	ninger-Berlins Billy habit general services and the services are the services and the services and the services and the services and the services are the services are the services and the services are the servi	1
The second secon	-		

Tilting - Braising Pan

#### TECHNICAL DATA

Pan

: Stainless Steel SUS. 430, 1.2 m/m

Dim. 1,000  $\times$  650  $\times$  180 (Depth) m/m, Cap. 100 liter

: Stainless Pipe SUS. 304, ø 50 m/m

Heater : 3p-220v-15kw

Thermostat : Robertshow 300°C Overall Dim.: 1,450 × 920 × 850 m/m

Spare Parts : 1 Pilot Lump

1 Thermostat

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
- TV, V	As above	0.42	15
REMARKS			

Weight; Top - Gross shipping weight Bottom - Net weight

KITCHEN	6/23	BOUIPMENT LIST 6	/17
			:

Refrigerator (Reach-in type)

#### TECHNICAL DATA

Exterior

: Stainless Steel SUS. 430, t = 0.7 #4 polish finishing.

Interior

: Stainless Steel SUS. 304, t = 0.7 2B polish finishing.

Door

: Stainless Steel SUS. 430, t = 0.7 m/m with lock.

Inner Shelf

: 6 6 m/m wire, polyethlene coated.

Insulation

: Expanded polyulethane.

Cooling System: Fin Tube Type

Compressor

: Closed Type.

Defrost

! Heater defrost, timer reset system.

Electricity

: 1p 100v

Spare Parts

item no.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
	Cap. Dim (m/m)		
6 - 0	412 Liter. 625 × 800 × 1,800	0.26	0.3
6 - 1	504 750 × 800 × 1,800	0.3	0.4
6 - 11	887 1,210 × 800 × 1,800	0.45	0.4
6 - 111 - 9	1,062 1,460 × 800 × 1,800	0.52	0.4
e - 14	$1,346$ $1,795 \times 800 \times 1,800$	0.6	0.4
6 ~ v	1,611 2,170 × 800 × 1,800	0.7	0.5
REMARKS			

Weight; Top - Gross shipping weight Bottom - Net weight

KITCHEN	7/23	EQUIPMENT LIST	7/17
NAME Single Bowl Sink			

ank Bowl : Stainless Steel SUS. 430, t = 1.2 m/m, 350 m/m depth.

pron : Stainless Steel SUS. 430, t = 1.0 m/m, Front & both sides.

Stainless Steel SUS. 430, 1,  $3 \times 40 \times 40$  m/m

Under Shelf : Stainless Steel SUS, 430 Channel.

Aljustable leg: Stainless Steel SUS. 304.

Drainage: 50 A (2 inche) with over flow.

Spare Parts : ---

pte: \*\*\* All sink shall have back splash gurd which placed wall side.

EM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
0,1,11	Dim. 750 × 750 × 850 m/m	0.1	0
MARKS			ngan galawan sebi atau sa di residenti sa di r

ight; Top - Gross shipping weight Bottom - Net weight KITCHEN 8/23 EQUIPMENT LIST 8/17

NAME

Double Bowl Sink

#### TECHNICAL DATA

Sink Bowl : Stainless Steel SUS. 430, t = 1.2 m/m, 350 m/m depth.

Apron : Stainless Steel SUS. 430, t = 1.0 m/m, Front & both sides.

Leg : Stainless Steel SUS. 430, J. 3 × 40 × 40 Angle

Under Shelf ; Stainless Steel SUS. 430 Channel.

Adjustable Leg: Stainless Steel SUS. 304.

brain : 50 A (2 inches) with over flow.

Spare Parts : ---

Note: \*\*\* All sink shall have back splash gurd which placed wall side.

тем ко.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
- 0 ∿ V	Dim. 1,500 × 750 × 850 m/m	0.16	
		The complete of the complete o	
EMARKS		- eq u y una à tima pang la	ome had anny hage any to be 1 - 12 - 1

eight; Top - Gross shipping weight
Bottom - Net weight

Carrie of the Parks of the Park			 7	· · · · · · · · · · · · · · · · · · ·	
KITCHEN			9/23	EQUIPMENT LIST	9/17
No. of Concession, named on the Party of the Owner, where the Party of	والمناه المناهد والمناهدة فيتورزي جدارة	marked ( delated on )	 	I	i 1

Triple Bowl Sink

## TECHNICAL DATA

Sink Bowl : Stainless Steel SUS. 430, t = 1.2 m/m, 350 m/m depth.

Apron : Stainless Steel SUS. 430, t = 1.0 m/m, Front & both side.

Leg : Stainless Steel SUS. 430, L  $3 \times 40 \times 40$  Angle.

Under shelf : Stainless Steel SUS. 430 Channel.

Adjustable Leg: Stainless Steel SUS. 304.

Drain : 50 A (2 inches)

Spare Parts : ---

Note: \*\*\* All sink shall have back splash gurd which placed wall side.

тен но.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
9 - 0 <b>v</b>	Dim. 2,250 × 750 × 850 m/m	0.3	0
NEMARKS		· · · · · · · · · · · · · · · · · · ·	Principal de la company de

leight; Top - Gross shipping weight
Bottom - Net weight

10/23 1.0 EQUIPMENT LIST KITCHEN

Work Table NAME

#### TECHNICAL DATA

: Stainless Steel Top Plate

SUS, 430, t = 1.2 m/m

Leg

: Stainless Steel Angle SUS. 430, L 3 × 40 × 40

Under Shelf : Stainless Steel Channel SUS. 430, t = 1.0 m/m

Adjustable Leg: Stainless Steel

SUS. 304.

Spare Parts : ---

Note: All work table, include mobile table, shall have splash back gurd which

placed wall side.

item no.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
10 - 0 ∿ V	Dim. 1,500 × 750 × 850 m/m	0.18	0
REMARKS			

Bottom - Net weight

		I		
B	KITCHEN	$\begin{vmatrix} 11 \\ 23 \end{vmatrix}$	EQUIPMENT LIST	11/
*****	***************************************			1. 1. 7
	and the second of the second o			
	The state of the s	-		
3				
NA!	ME Mobile Table	:	production of the second second	

Top Plate : Stainless Steel SUS. 430, t = 1.2 m/m

Leg | Stainless Steel SUS. 430 Angle L 3 × 40 × 40

Under Shelf: Stainless Steel SUS. 430 Channel t = 1.0 m/m

Caster : 4 Swivel Caster \$ 125 m/m (5 inches)

\* 2 of them, with stopper.

Spare Parts: ---

TEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
) - 1 v (	7 Dim. 1,500 × 750 × 850 m/m	0.18	0
EMARKS eight;		بيران سريشه وساده موده الاد	~

Bottom - Net weight

			*****																							
7						1									٠					14	<del>~</del> -	7	Г	The second state of the second state of the second state of the second state of the second se	<del></del>	
-			TCI	HE	N										:	<u>.</u>			·	-	23			EQUIPMENT LIST	1	$\frac{12}{17}$
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	,-40	سنبي	-			-	***	-	•••	-	 -	-		نسنجي	-							÷.,	٠			

Pot & Pan Rack (4 shelves), Assembly Type

# TECHNICAL DATA

: Stainless Steel SUS. 430, t = 1.0 m/m, Dynafomed.

: Stainless Steel Pipe SUS. 430,  $\phi$  32 with Adjust ball.

Spare Parts: ---

TEM NO.	SPECIPICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
- 0 V V	Dim. 1,500 × 600 × 1,800 m/m	0.13	0
		Accommon and a second	÷
EMARKS		1	<del>- Tarasi</del> nen <del>aus arjun udur us</del> de ek

eight; Top - Gross shipping weight Bottom - Net weight

Dish Washing Machine (Steam)

#### TECHNICAL DATA

2 tank, conveyor type dish washing machine, 760 m/m loading section, 1,015 m/m pre washing section, 1,015 m/m power washing section and 1,830 m/m drying and unloading section, total overall length 4,650 m/m.

Chamber & Exterior : Stainless steel SUS. 304, t = 1.5 m/m

Body & Frame

1 Steel channel.

Adjust Ball

Stainless steel SUS. 304.

Pump Motor

Pre-wash 0.75 kw, power wash 0.75 kw

Conveyor Driving Motors 0.4 kw.

Control System

Assembled in water-protected stainless steel enclosure.

Electricity

: 3p 220V

Max.Steam Pressure

 $: 2 \text{ kg/cm}^2$ 

Standard Accessory

Detergent dispenser, steam booster & rinse injector, and

3 washing basket.

Spare Parts

: I magnet switch, 2 pilot lump, 1 thermo-meter,

2 push button switch.

TEM NO. SPECIFICATIO	N WEIGHT ELECTRIC GAPACITY (T) (KW)
3 - IV,V As sbove.	1.2 1.9
Steam consumption: 85	kg/iir

REMARKS

Steam pressure

2 kg/cm/

Steam consumption: 85 kg/llr.

Keight;

	N	AHE	Sterilizing Sink (Boiled type, Steam)	
	أسببي		and the state of t	
	В	KIT	CHEN EQUIPMENT L	.1ST 14
80 B			The state of the s	the state of the first property of the state

Structure

: Bottom of stainless steel sink, inner-housing shall be equiped steam coiling element for the boiled sterilising operation.

Sink Bowl

: Stainless steel SUS. 430, t = 1.2 m/m

Apron

: Stainless steel SUS. 430, 1.0 m/m

Legs

: Stainless steel angle SUS. 430, L 3  $\times$  40  $\times$  40 m/m

Steam Coil

: Cooper tube \$ 9.0 m/m

8asket

: Stainless steel wire SUS. 304, 2 pcs.

Max. Steam Pressure: 2 kg/cm2

Spare Parts

\* \*\*\*\*

TEM NO.	SPECIFICATION	MEICHI	ELECTRIC CAPACITY (KW)
4 - LV, y	Dim. 1,500 $\times$ 750 $\times$ 850 m/m Steam consumption: 45 kg/Hr.	0.17	0
		The control of the co	
PARKS	Steam consumption	on: 45	kas 182.
	Steam pressure		kgs/cm².

NAME

Sterilising Sink (Kerosene heated)

#### TECHNICAL DATA

Structure : Unit shall have kerosene burner for boiled sterilising.

Sink Bowl

: Stainless steel SUS. 430, t = 1.2 m/m with cover.

Apron

: Stainless steel SUS. 430, t = 1.0 m/m.

Legs

: Stainless steel SUS. 430, angle L 3  $\times$  40  $\times$  40 m/m

Adjustable leg: Stainless steel SUS. 304.

Basket : Stainless steel wire SUS, 304, 1 pc.

Electricity : 1p 100v

Spare Parts : ---

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)	
15 - IVIII	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.1	
	Kerosene consumption: 0.5 ∿ 3 l/Hr			
REMARKS				

		KITCHEN	Parket Andreas (Andreas (Andre	$\begin{bmatrix} 16 \\ 23 \end{bmatrix}$ EQUIPMENT LIST $\begin{bmatrix} 16 \\ 17 \end{bmatrix}$
				The state of the s
1	NAME	Dish Wagon	(24 trays cap)	

structure : Unit shall be assembled by 6 wire shelves, 2 posts, 1 dolly,

1 top plate and 2 acryl side boards.

: Steel wire \$ 4.5 m/m, crome plated. Shelves

Post

Sottom - Net weight

: Alminum plate t = 2.5 m/m, 4 caster, 4 corner bumper. Dolly

Top plate : Alminum plate  $t = 2.5 \text{ m/m} \cdot 1.5 \text{ m/m}$ .

Spare Parts: 2 shutter.

IDI NO.	SPECIFICATION	WEICHT (T)	ELECTRIC CAPACITY (KW)
~ 0~v	Dim. 1,220 × 830 × 1,650 m/m	0.2	0
Maks			
DURKS	op - Gross shipping weight		Alfred (miss substitution subst

سيع	A	- Andreas of the State of the S	en anno maria de la companya del la companya de la		
2			117 1		1 1
	KITCHEN		1 4 夕 1	61 A * * * * * * * * * * * * * * * * * *	117, 1
58	KIIOIIM		1 /2 2 1	EQUIPMENT LIST	1.1/
		for the second second	[ [ 123]	- de antimité fixtur	[17]
31	A SALES AND ASSESSMENT OF PROPERTY OF PROPERTY AND ASSESSMENT OF PROPERTY OF P		***************************************	National Association and the Control of the Control	1 2.7 1
a					

NAME

011 (Kerosene) Injector

### TECHNICAL DATA

structure : Tank shall be constructed by steel plate of thickness 2.3 m/m and fixed on a frame which constructed by steel angle. Tank shall be rust-proof painted finish, and installed at such aplace out side of kitchen where the piping distance is the shortest.

Basement

: Concrete basement shall be provided, by construction contractor, and support the tank frame with anchor bolt.

Piping

: \$ 8 m/m copper tube is adopted for piping.

Gear pump

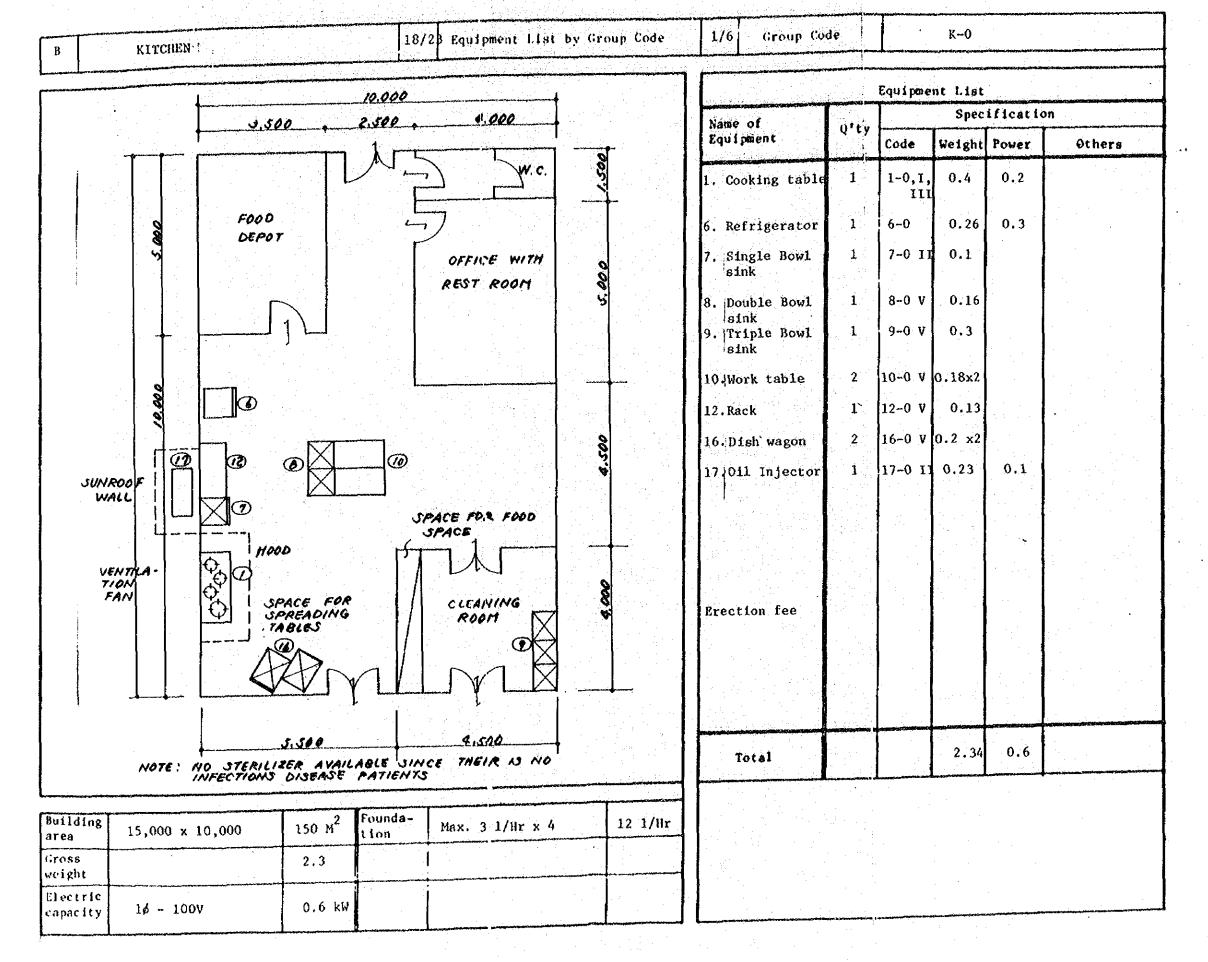
: A gear pump for injection of oil (kerosene) to the tank is provided

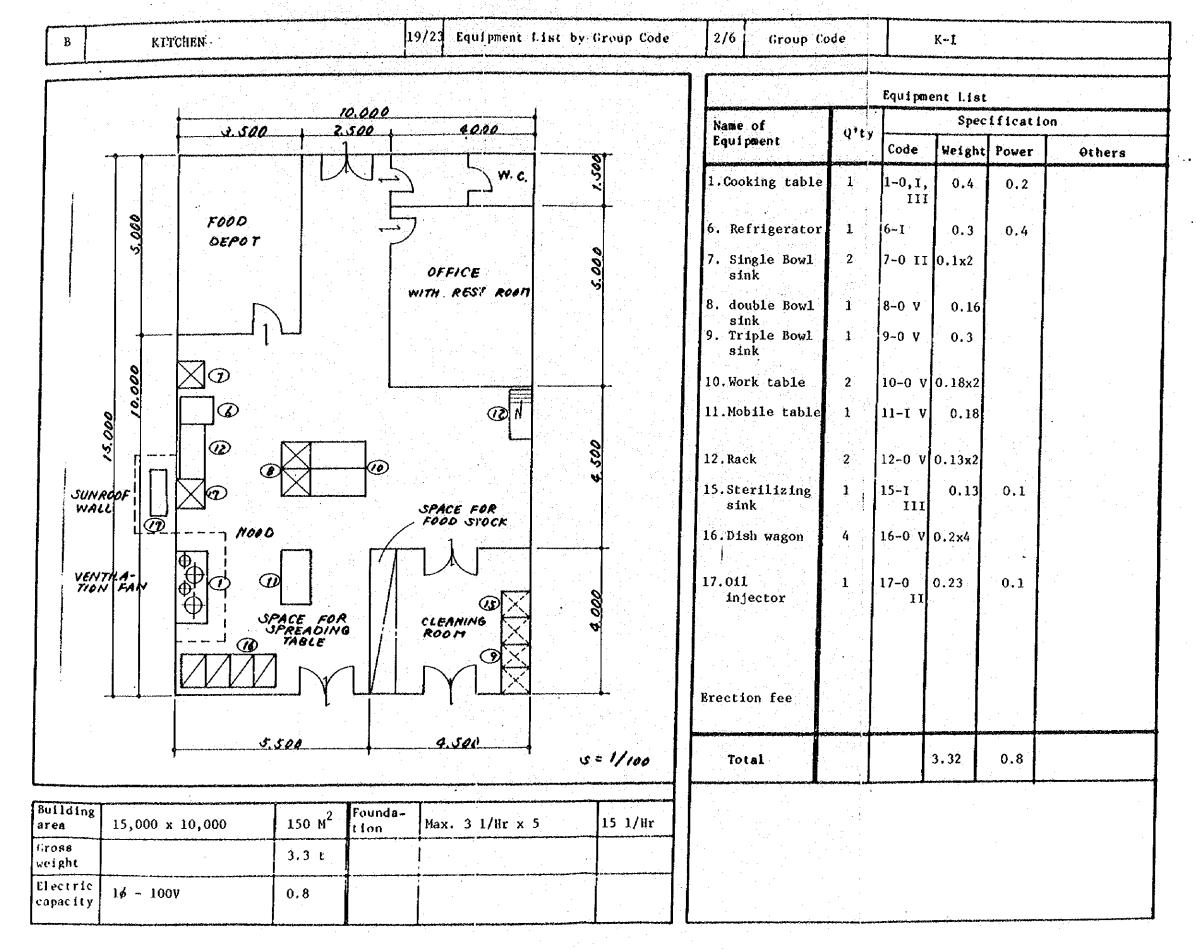
additionaly.

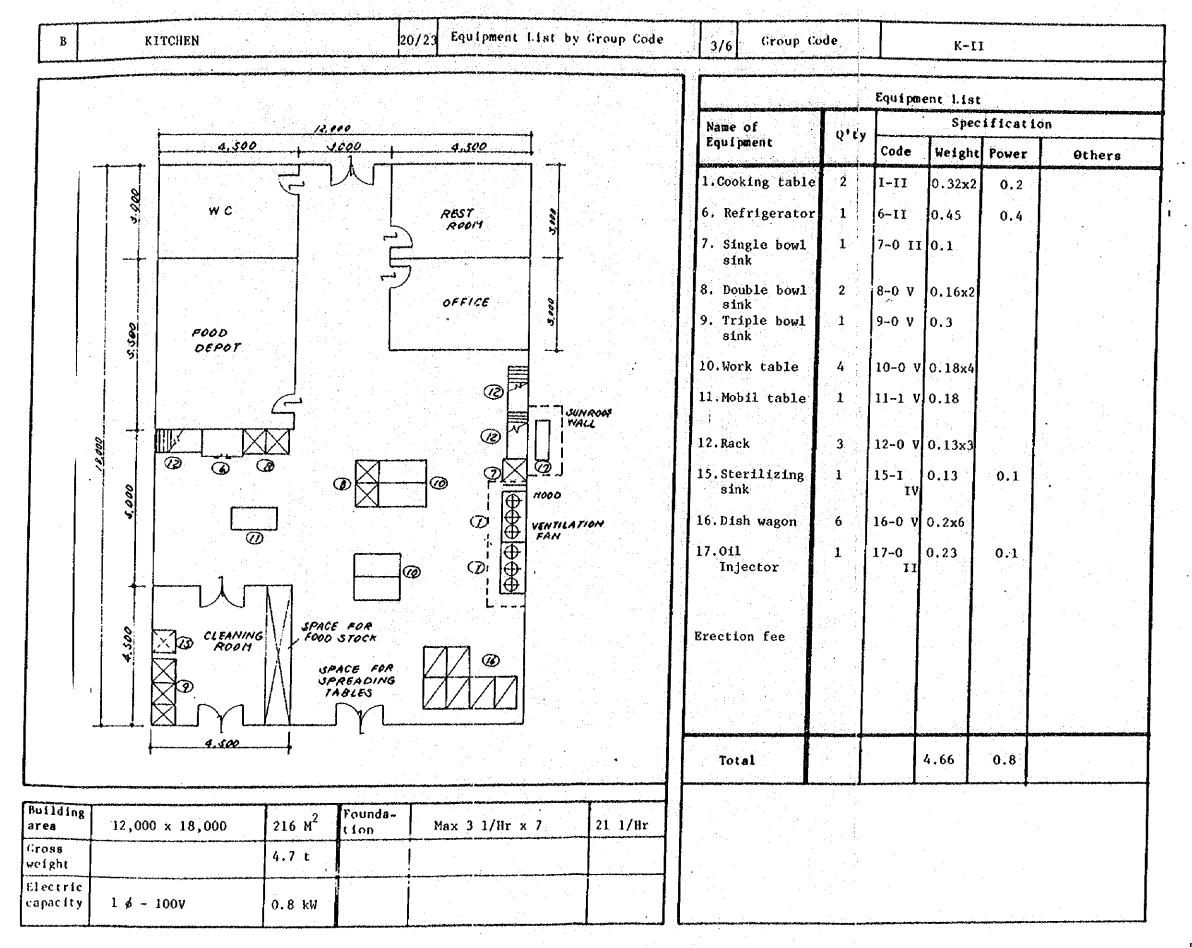
Electricity: 1p 100v

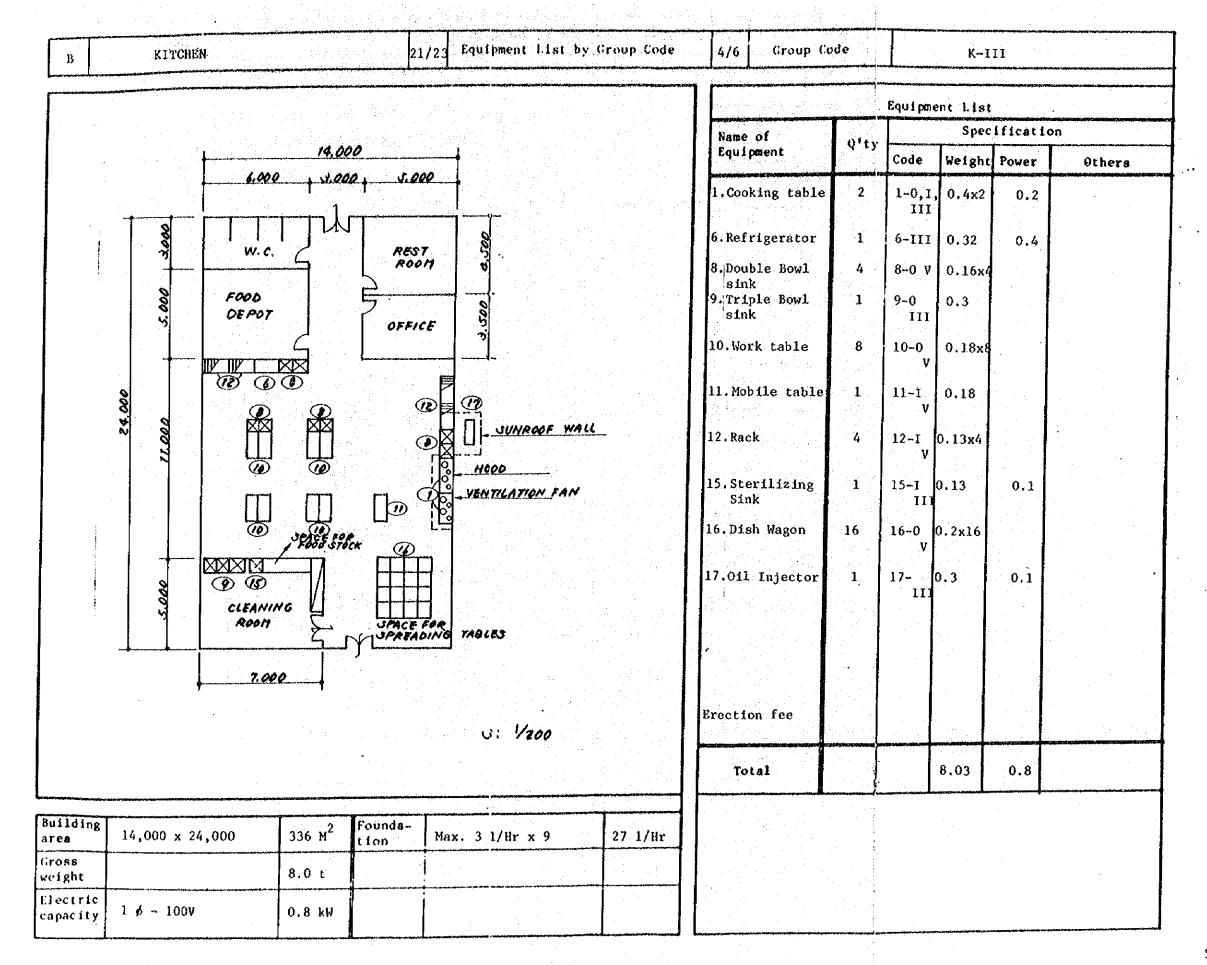
Spare Parts: --

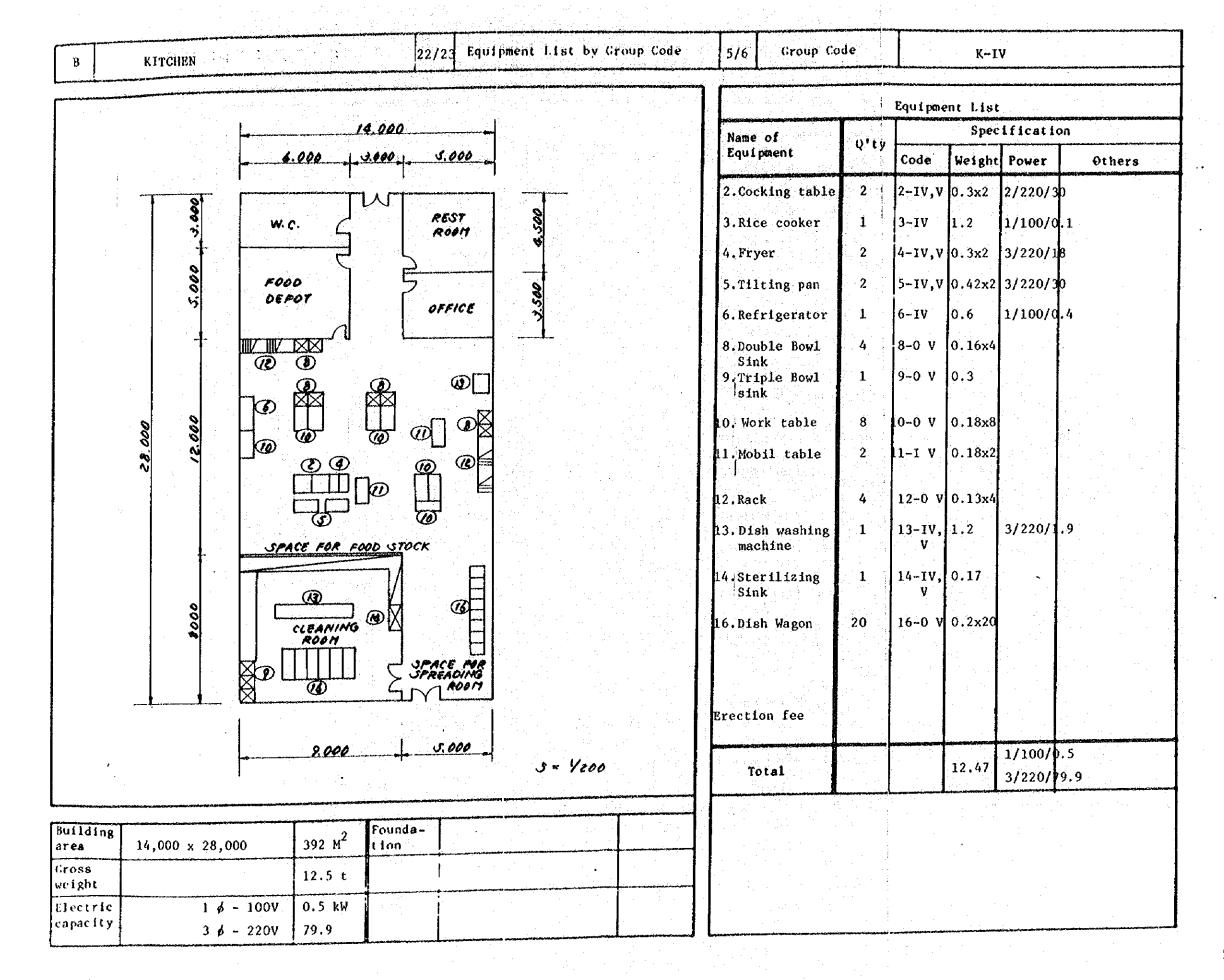
TEN NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
h - 011	II Tank storage cap. 200 litre.		0.1
V - III	Tank storage cap. 400 litre.	0.3	0.1
BEWARKS		-	

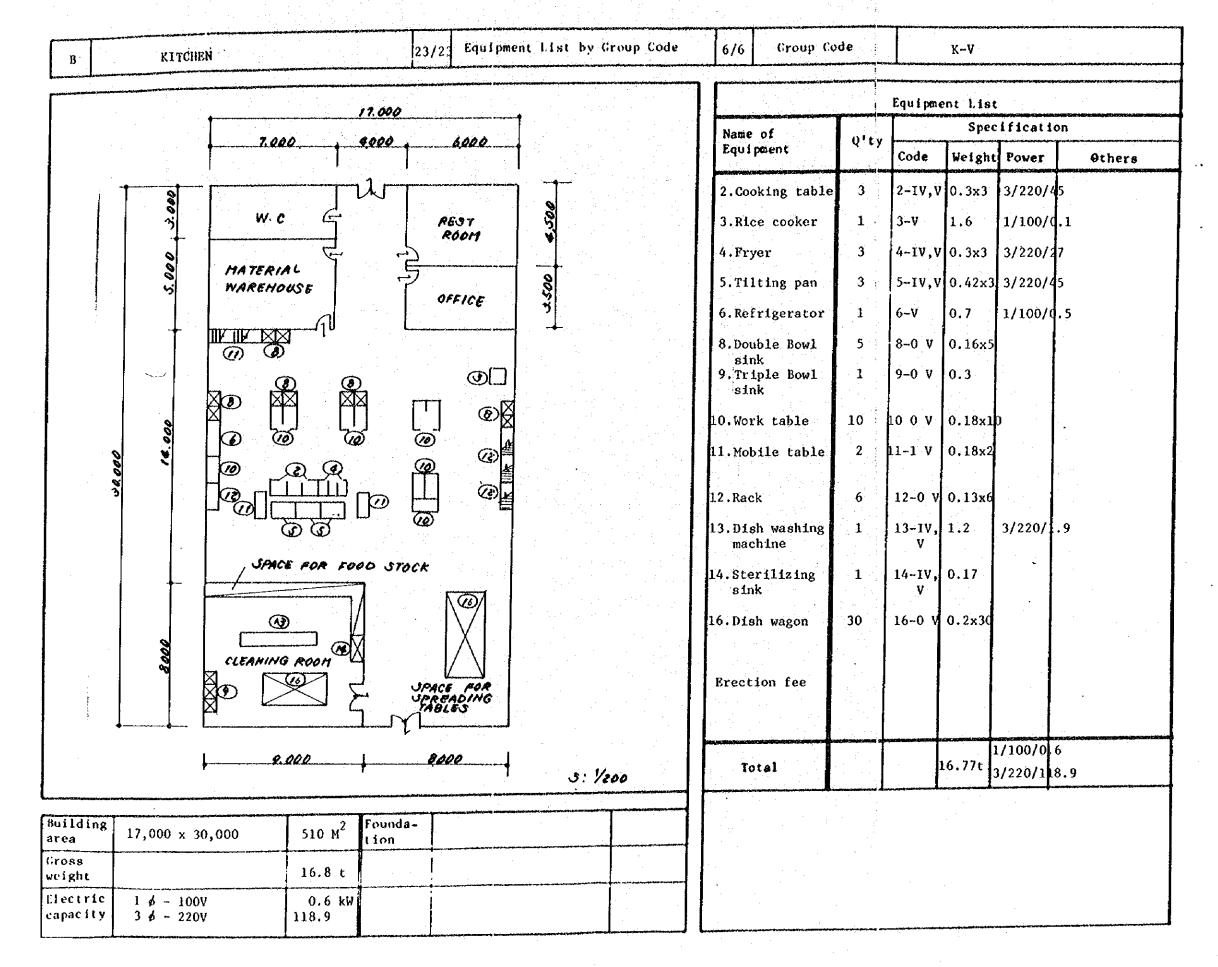












# 5-4 Laundry Facility

## c List of laundry appliances

Appliance	Gunung Wenang Ujung Pandang Medan	Other hospitals
Washers	O	o
Dehydrators	O	0
Driers	- o 1)	x
Sheet rollers	o 1)	×
Electric irons		0
Treadle sewing machines	<b>\</b>	O
Working tables and other appliances	0	o
Disinfectors	o	0

### 1) Operates on steam

# \* Appliance selection criteria

Laundry quantity/day = 1kg/bed, day
Working time = 5 hours/day
Laundry quantity per hour=0.2 kg/bed, hour

The above estimation is based on the assumption that the sheets and pillowcases for patients are replaced every other day.

C LAUN	DRY	1/24	EQUIPMENT LIST	1/19
NAME	Laundry Washer	and the state of t		and the second s
ر در				<del></del>
- Company of the Comp	TECH	NICAL DATA		
		يان المداد الدين والوادات الدائم المائل		
Type Dry Weight Cylinder  Tub  Electricit Motor Speed Redu Operation  Accessorie	: 0.75 kw, 4-p. : Worm gear 1:20 : Automatic time ted from drive cylinder sheav s : Water level to button, Timer,	$0 \neq \times 760 \text{ mm.}$ $6-304 \text{ t} = 1.0 \text{ rpm.}$ $0 \neq \times 900 \text{ mm.}$ $6-304 \text{ t} = 0.8 \text{ elz, } 3-\text{Phase.}$ er, magnetic motor, throwe by V-belts ube, Thermome	reverse cylinder. Power was speed reducer, to the	main chine
Spare Part	2 Ma 2 Mi 1 Th 1 Wa 2 Wa 4 Fu 4 Pi	gnetic switch cro switch. ermometer, ter level tul ter level tul	oe packing.	31. n switch.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
1 - 1	Dimension : 1,290(W) × 950(D) × 1,205(H)mm.  Machine Weight : 270 kg.  Water Inlet : 1 1/4 B.  Drain Valve : 2 B  Water Consumption: 0.6 m³/Hr.		0.75 kw
	Approx. shipping weight	400 kg  450 kg   70cft	
REMARKS	Foundation: Ballast = 300 mm. Concrete	= 200 m	m.

NAME Laundry Washer

#### TECHNICAL DATA

Type : Side Loading.
Dry Weight Capacity: 20 \( \times \) 30 kg/load.

cylinder : Size =  $720 \phi \times 820 \text{ mm}$ . : Material = SUS-304 t = 1.0

: R.P.M. = 30 rpm.

Tub : Size =  $820 \text{ } \% \times 1,000 \text{ } \text{ mm}$ .

Material = SUS-304 t = 1.0

Electricity : 220/380-V, 50-Hz, 3-Phase.

Motor : 0.75 kw, 4-P.
Speed Reduction : Worm gear 1:20

Operation : Automatic timer, magnetic reverse cylinder.

Power transmitted from drive motor, through speed reducer,

to the main cylinder sheave by V-belts.

Accessories : Water level tube, Thermometer, Automatic buttons, Inching buttons, Laundry timer, Soap inlet, Indicator lamp, Door

limit switch, Buzzer, Foot operated drain valve and Water

inlet valve.

Spare Parts : Quantity-2 Reversing timer. Quantity-1 Water level tube.

2 Laundry timer. 2 V-belt, A-62. 2 Magnetic switch. 2 V-belt, B-62. 2 Thermal relay. 2 Drain valve.

2 Thermal relay. 2 Drain valve. 1 Limit switch. 1 Thermometer.

1 Push button switch.
4 Pilot lamp bulb.

4 Fuse.

2 Water level packing.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
2 - 11,111	Dimension : 1,495(N) × 985(D) × 1,185(H)mm.  Machine Weight : 450 kg. Water Inlet : 1 1/4 B  Drain Valve : 100 \$\delta\$ mm. Water Consumption: 1.0 m <sup>2</sup> /Hr.  Approx. shipping weight	1.0 48	0.75 kw
REMARKS	Poundation: Ballast = 300 mm. Concrete  Drain Pit: 500(W) × 500(D) × 500(H) mm		Alli.

NAME Laundry Washer

### TECHNICAL DATA

: Side Loading Dry Weight Capacity: 35 % 45 kg/load. cylinder : Size \* 805  $\% \times 1,020$  mm. : Material = SUS-304 t = 1.0 1 R.P.M. = 25 rpm. : Size == 910 \$\delta \times 1,220 mm. i Material = SUS-304 t = 1.2 : 220/380-v, 50-Hz, 3-Phase. Electricity 1.5 kw, 4-P. Motor : Worm gear 1:20 Speed Reduction : Automatic timer, magnetic reverse cylinder. Operation Power transmitted from drive motor, through speed reducer, to the main cylinder sheave by V-belts.
: Water level tube, Thermometer, Automatic buttons, luching Accessories buttons, Laundry timer, Soap inlet, Indicator lamp, Door limit switch, Buzzer, Foot operated drain valve and Water inlet valve.

Spare Parts: Quantity-2 Reversing timer. Quantity-1 Water level tube.

2 Laundry timer. 2 V-belt, A-65
2 Magnetic switch. 2 V-belt, B-64
2 Thermal relay. 2 Drain valve.
1 Limit switch. 1 Thermometer.

1 Push button switch.
4 Pilot lamp bulb.
4 Fuse.
2 Water level tube packing

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
1 - 14.4	Dimension : 1,720(W) × 1,075(D) × 1,280(H) mm.  Machine Weight : 550 kg.  Water Inlet : 1 1/4 B  Steam Inlet : 3/4 B  Drain Valve : 100 d mm.  Water Consumption: 1.5 m /Hr.  Steam Pressure : 5 ~ 6 kg/cm  Steam Consumption: 60 kg/Hr.  Approx. shipping weight	1700 16	i
120AFYS	Foundation: Ballast = 300 mm. Concrete Brain Pit : $500(\%) \times 500(D) \times 500(\%)$ cm.		

C	LAUNDRY	والمراجعة والمساور والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة و	4/24	EQUIPMENT LIST	4/19
N/	AME Laundry E	xtractor.	agalanga pisanga katanga katan		ى ئەلىرىيىلىقى دىدا خىلىدىن ئايىلىدىن ئايىلىدىن ئايىلىدىن ئايىلىدىن ئايىلىدىن ئايىلىدىن ئايىلىدىن ئايىلىدىن ئا ئايىلىدىن ئايىلىدىن
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		TECHN	ICAL DATA		one make kepan ngaga tin tao na kapita kana dilakin tingka pilakinan.
Ou G E1 Mo Co	y Weight Capacity; sket  rer Shell Force ectricity tor entrol	Material = SUS R.P.M. = 1,6 Material = SS= 850 G. 220/380-V, 50- 1.5 kw, 4-P. ( Magnetic start Power transmit	~304 t = 1. 50 rpm. 41 Hz, 3~Phase High torque er switch 1 ted by V~be	· 6	c brake.
Sp	are Parts	Quantity-2 Di 2 Be 2 Be 2 V- 1 Ma 2 Pe 3 P: 3 P:	sc brake paring, 630 bearing, 630 belt. Agnetic switten belt lamp belot lamp gimer.	8ZZ. 9ZZ. tch. switch. ulb.	

HEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
	Dimension : 990(W) × 1,195(D) × 610(H) mm.  Machine Weight: 320 kg.  Drain : 70 ø mm.  Approx. shipping weight	450 kg 360 kg 50cft	•
ROMENS	Foundation: Ballast = 300 mm. Concrete  Drain Pit : 200(W) × 500(H) mm.	= 200 1	nm.

C LAUI	NDRY	The state of the s	5/24	EQUIPMENT LIST	5/19
<b>NAME</b>	Laundry	Extractor			
		TECHNI	CAL DATA		and an analysis of the second sec
Type Dry Weight Basket  Outer Shel G-Force Electricit Notor Control Accessorie	Capacity: : : : : : : : : : : : : : : : : : :	Power transmitte	<ul> <li>x 295 m</li> <li>y 295 m</li> <li>y 3-Phase</li> <li>gh torque</li> <li>r switch bed by Y-be</li> </ul>	<b>.</b>	brake. dicator
Spare Part	<b>S</b>	2 Bear 2 V-be 1 Magr 2 Pust 3 Pilo	ring, 6309 ring, 6310 elt. letic swith button s ot lamp bu et lamp gl	ZZ. ZZ. ch. witch. lb.	

TEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
- 11,111	Dimension : 1,065(W) × 1,305(D) × 670(H) mm.  Machine Weight: 420 kg.  Drain : 70 ø mm.		1.5 kw
	Approx. shipping weight	550 kg 480 kg 70cft	
EMARKS	Foundation: Ballast = 300 mm. Concrete Drain Pit : $200(W) \times 500(H)$ mm.	≈ 200 п	nın.

A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			[
LAUNDRY	6/2	EQUIPMENT LIST	6/19
and the second s	The second secon	4	

NAME Laundry Extractor

#### TECHNICAL DATA

Type : Gentrifugal.

Dry Weight Capacity: 35 ∿ 42 kg/load.

Basket : Size = 838  $\phi \times 340$  mm.

: Material = SUS-304

: R.P.M. = 1,150 rpm.

Outer Shell : Material = SS-41.

G-Force : 620 G.

Electricity : 220/380-V, 50-Hz, 3-Phase.

Motor : 3.7 kw, 4-P. (High torque motor)

control : Magnetic starter switch box with timer and buzzer.

Power transmitted by V-belts and hand operated disc brake.

Accessories : Cover limit switch, Timer, Buzzer, Push buttons, Indicator

lamp.

Spare Parts : Quantity-2 Disc brake pad.

2 Bearing, 631122.

2 Bearing, 631222.

2 V-belt.

1 Magnetic switch.

2 Push button switch.

3 Pilot lamp bulb.

3 Pilot lamp globe.

2 Timer.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
- IV,V	Dimension : 1,310(W) × 1,645(D) × 790(H) mm.  Machine Weight: 860 kg.  Drain : 100 ¢ mm.		3.7 kw
	Approx. shipping weight	96088	
EMARKS	Foundation: Ballast = 300 mm. Concrete  Drain Pit : 200(W) × 500(H) mm.	= 200 (	nm.

Drying Tumbler NAME

#### TECHNICAL DATA

: Steam. Dry Weight Capacity: 20 kg/load.

: Size =  $930 \phi \times 750 \text{ mm}$ . Cylinder : Naterial = SS-41 (Galvanized)

: R.P.M. = 35 rpm.

: Material = SS-41. Outer Shell

: 220/380-V, 50-Hz, 3-Phase. Electricity : Drive = 0.4 kw, 4-P. : Fan = 0.2 kw, 4-P. Motor

Reater Radiation : 16 m<sup>2</sup>

Pan Capacity : Air volume =  $20 \sim 26 \text{ m}^3/\text{min}$ .

: Static air pressure = 25 % 35 mmAq.

: Clock type timer and reversing cylinder. Power transmitted Operation

by V-belts.

Thermometer, Steam pressure gauge, Switch, Timer, Pilot lamp, Accessories

Air control lever, Lint screen and Steam trap.

! Quantity-2 Magnetic switch. Spare Parts

Thermal relay. 1

Reversing timer.

2 Timer.

4 Fuse.

4 Pilot lamp bulb.

2 V-belt, A-64.

4 V-belt, A-61.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
7 - IV,V	Dimension : 970(W) × 1,180(D) × 1,810(H) mm.  Machine Weight : 310 kg.  Steam Inlet : 1 B  " Outlet : 3/4 B  " Pressure : 5 ~ 6 kg/cm²  " Consumption: 40 kg/Hr.  Duct Size : 200 ¢ mm.  Approx. shipping weight	450 kg 340 kg 130cft	
REMARKS	Foundation: Ballast = 300 mm. Concrete  Ducting material include in the piping ma		

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C	LAUNDRY	8/24	EQUIPMENT LIST	امديما	ĺ
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AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO	
NAME	Flatwork Ironer
described to the second	

Type : Steam heated, Calender type. Roll Speed :  $1.7 \sim 5.9 \text{ m/min}$ . Roll Size : Heating roll =  $400 \text{ } \% \times 2,000 \text{ mm}$ . Pressure roll =  $160 \text{ } \% \times 2,000 \text{ mm}$ . Electricity : 220/380-V, 50-Hz, 3-Phase.

Motor : 0.4 kw.
Operation : Turn back type.

Accessories : Front table, Safety finger guard, Endless belt, Padding, Cover, Steam pressure gauge, Ammeter, Push buttons, Pilot lamp, Roll pressure pedal, Speed reducer, Variable speed

handle and steam trap.

Spare Parts : Quantity-1 Rotaly joint.

2 Padding. 2 Steam hose. 2 V-belt.

5 Guide tape. 4 Fuse.

4 Pilot lamp bulb.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
8 - IV	Dimension : 2,700(W) × 1,250(D) × 1,050(H) mm.  Machine Weight : 650 kg.  Steam Inlet : 1 B  " Outlet : 1/2 B  " Pressure : 5 ~ 6 kg/cm² " Consumption: 60 ~ 85 kg/Hr.  Approx. shipping weight	1,000kg 650kg 200 cft	0.4 kw
REMARKS	Foundation: Ballast = 300 mm. Concrete	= 200 m	in:

Flatwork Ironer NAME

#### TECHNICAL DATA

: Steam heated, Calender type. Type :  $2.2 \, \circ \, 7.7 \, \text{m/min}$ Roll Speed : Heating roll =  $280 \% \times 2,700 \text{ mm}$ . : Pressure roll =  $150 \% \times 2,700 \text{ mm}$ . Roll Size : 220/380-V, 50-Hz, 3-Phase. Electricity."

. : 0.4 kw. Motor : Turn back type.

Operation : Front table, Safety finger guard plate, Endless belt, Pad-Accessories ding, Cover, Steam pressure gauge, Ammeter, Push buttons,

Pilot lamp, Roll pressure pedal, Speed reducer, Variable

speed handle and steam trap.

Spare Parts : Quantity-1 Rotary joint.

2 Padding. 2 Steam hose. 2 V-belt.
5 Guide tape.

4 Fuse.

4 Pilot lamp bulb.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
9 - V · · ·	Dimension : 4,000(W) × 1,000(D) × 1,500(H) mm.  Machine Weight : 800 kg.  Steam Inlet : 3/4 B.  "Outlet : 1/2 B. "Pressure : 5 ~ 6 kg/cm² "Consumption: 70 ~ 100 kg/Hr.		0.4 kw
	Approx. shipping weight	1,900kg 800kg 320 cft	
REMARKS	Foundation: Ballast = 300 mm. Concrete	= 200 n	nga .

Weight; Top - Gross shipping weight Bottom - Net weight

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C	LAUNDRY	10, 24	EQUIPMENT LIST	10/19
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NAME Ironing Board

#### TECHNICAL DATA

Table

: Perforated wooden top.

Legs

: Adjustable steel pipe.

Accessories

; Padding and Rack.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
10 - Į ∿ V	Dimension: 1,510(W) × 920(D) × 640 - 760(H) mm.		
	Approx. shipping weight	52 kg 37 kg 10cft	
REMARKS			

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	c	LAUN	DRY	EQUIPMENT LIST	11,

Туре

: Electric.

Use

: Finishing for flat materials,

Heater

: 550/800/1,350 w, Three-steps-changeover switch.

Sole Plate Finish : Hark chrome.

Electricity

: 220/380-V, 50-Hz, 3-Phase.

ITEN NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
ll - I ∿ V	Sole Plate Size: 150(W) × 220(L) mm. Net Weight : 6 kg.		1.35 kw
	Approx. shipping weight	7 kg 6 kg left	
REMARKS			and a second section of the second section of the second

	LAUNDRY	12/24	EQUIPMENT LIST	12
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Турс Ассе	ossories : Table, Stand,	Bobbin, Oil	er, Ringe, Hemming presser f spanner and Needles.	oat,
Spai	1 1	pool assy. obbin assy. hread winder eather belt leedle bar as	assy.	

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
12 - I ∿ V	Dimension: 1,140(W) × 450(D) × 970(H) mm. Weight : 35 kg.  Approx. shipping weight	50 kg 35 kg 10cft	
REWARKS			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

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Table	: Wood coated wi	th melamine	resin.	er ett et erekking in også og g
Frame	: Made of steel	pipe and ad	Justable legs,	
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HEN NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
on to V	Dimension: 1,350(W) × 750(D) × 690 - 820 (H) mm. Weight : 16 kg.	The Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers and the Country Printers	·
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ESSAKS		kiron anang menulukang menganan yan <b>ab</b> a	هداده ماهو به المهاد و المهاد المهاد المهاد المهاد المهاد المهاد المهاد المهاد المهاد المهاد المهاد المهاد الم

Pap - Gross shipping weight dozen - Net weight

c	1,AUNDRY	24	EQUIPMENT LIST	19	
- 1	NAME Shelf				

Material

: Resin coated steel plate.

Number of Shelf Plate; 4, Adjustable.

Accessories

: 4 swivel rubber casters.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
4 - 1 ~ V	Dimension: 1,140(W) × 460(D) × 1,870(H) mm. Weight : 22 kg.		
	Approx. shipping weight	40 kg 22 kg 10cft	
BEMARKS		La san amanana	,

Disinfection Tub NAME

TECHNICAL DATA

Tub

: Compartment = 2. : Depth = 400 nm. : Material = SUS-304

Accessories : Drain cooks and Adjustable legs.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
15 - 1 ∿ V	Dimension: 1,800(W) × 1,200(D) × 800(H)  whm.  Weight : 60 kg.		
	Approx. shipping weight	170 kg 450 kg 85cft	
REVARKS			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

c	LAUN	DRY	16 24	EQUIPMENT LIST	16, 19
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A	ccessori	ies : Rack, Overflow	v, Plug and Ac	ljustable legs.	
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item no.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
5 - I ∿ V	Dimension: 1,800(W) $\times$ 600(D) $\times$ 800(H) mm Weight ; 45 kg.		
	Approx. shipping weight	110 kg 300 kg 45cft	
Remarks			

4				بر دخود بدود و مورد و جوان داده او دور او دور و مورد و مورد و مورد و دور و دور و دور و دور و دور و دور و دور و مورد و دور و دور و دور و دور و دور و دور و دور و دور و دور و دور و دور و دور و دور و دور و دور و دور و دور و د	
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(	Capacity	; 1 litter.			
1	fater fal	; Brass.			

ITEM NO. SPECIFICATION		WEIGHT (T)	ELECTRIC CAPACITY (KW)
7 - 1 % V	Dimension: $91 \% \times 295(H)$ mm. Weight: 1 kg.		
	Approx. shipping weight	2 kg 3 kg 2cft	
1901335	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		anapang agay perancakan kananan Ar — — A ,

C LAUI	NDRY	18 24	EQUIPMENT LIST	18
	والمستعمل المستعمل ال			1.7
NAME	Canvas Truck			HBB I demokrativským (pompograficky dysopous)
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and the second profession for	ТЕСИ	NICAL DATA		
Material	: Steel pipe f	rame and car	ivas cloth.	. Other selfs and observed reads are upon a common and a rough upon
Capacity	; 383 litter.			
Accessor	ries : 2 swivel and	2 stationar	y rubber casters.	

ITEM NO.	SPECIFICATION		ELECTRIC CAPACITY (KW)
18 - I ∿ V	Dimension: $880(W) \times 690(D) \times 750(H)$ mm. Weight : 14 kg.		
	Approx. shipping weight	20 kg 50 kg 20cft	
REMARKS		ma mar an inci ay kino mindali ki 🚟	

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c'	LAUNDRY	19/24	EQUIPMENT LIST	19 19	!

NAME Scale

TECHNICAL DATA

Made1 : A-100

Type : Dial type.

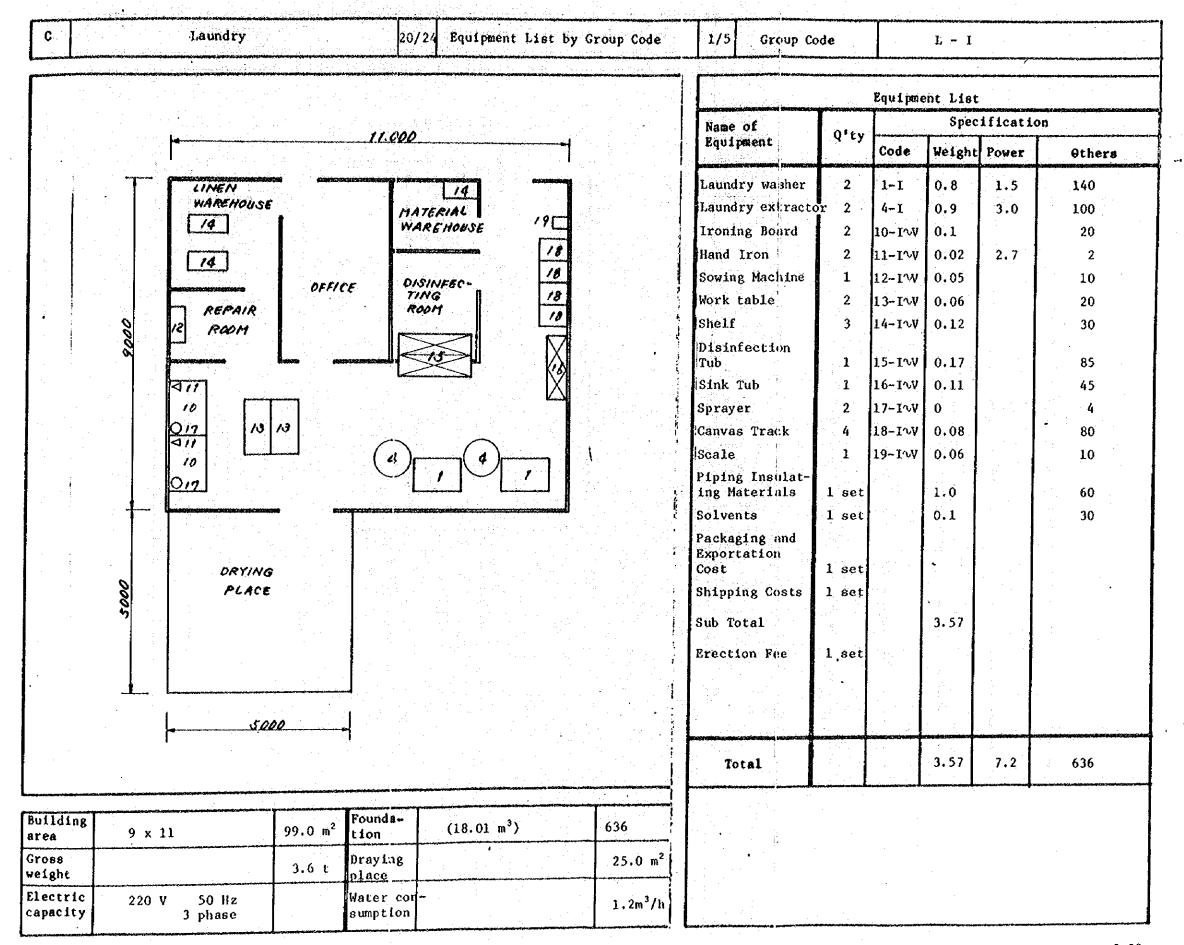
Graduation : 200 g.

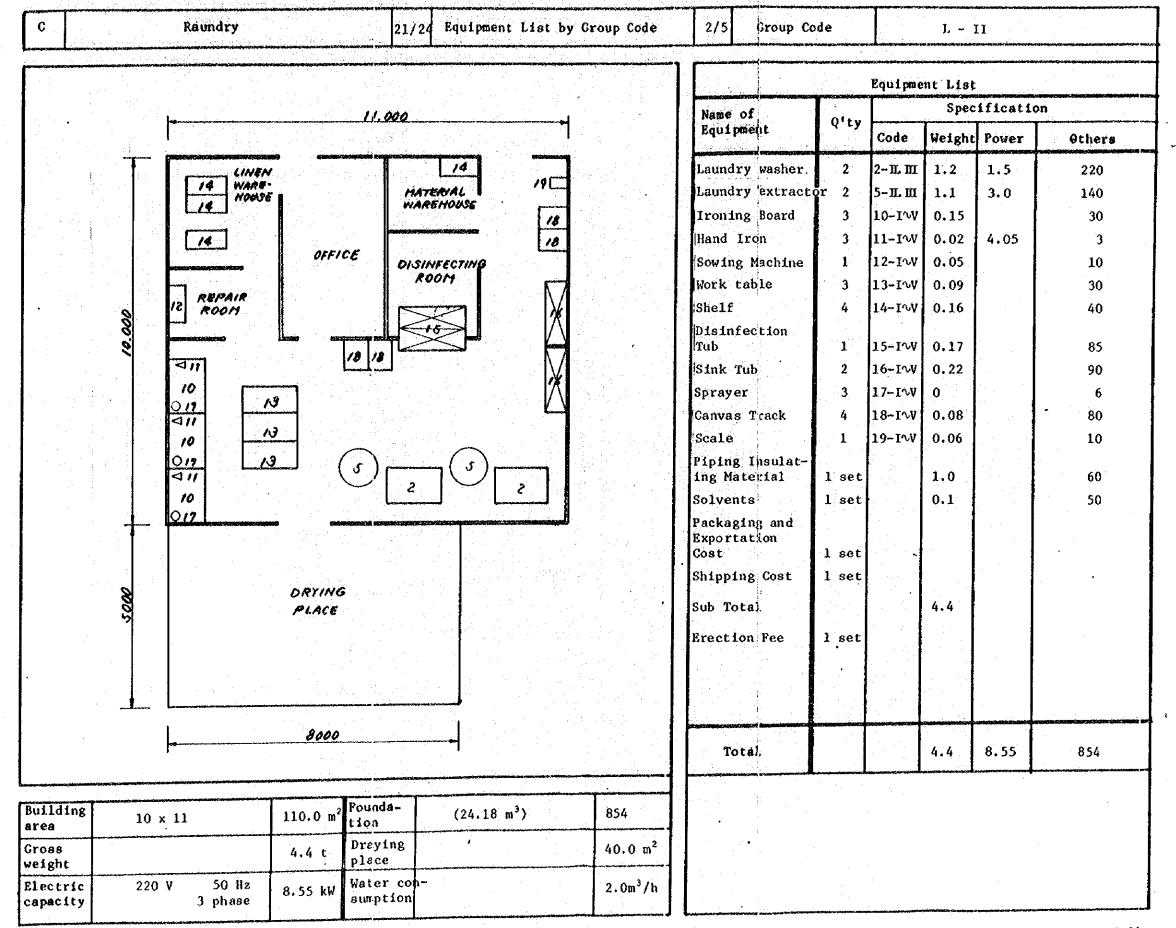
Capacity : 100 kg.

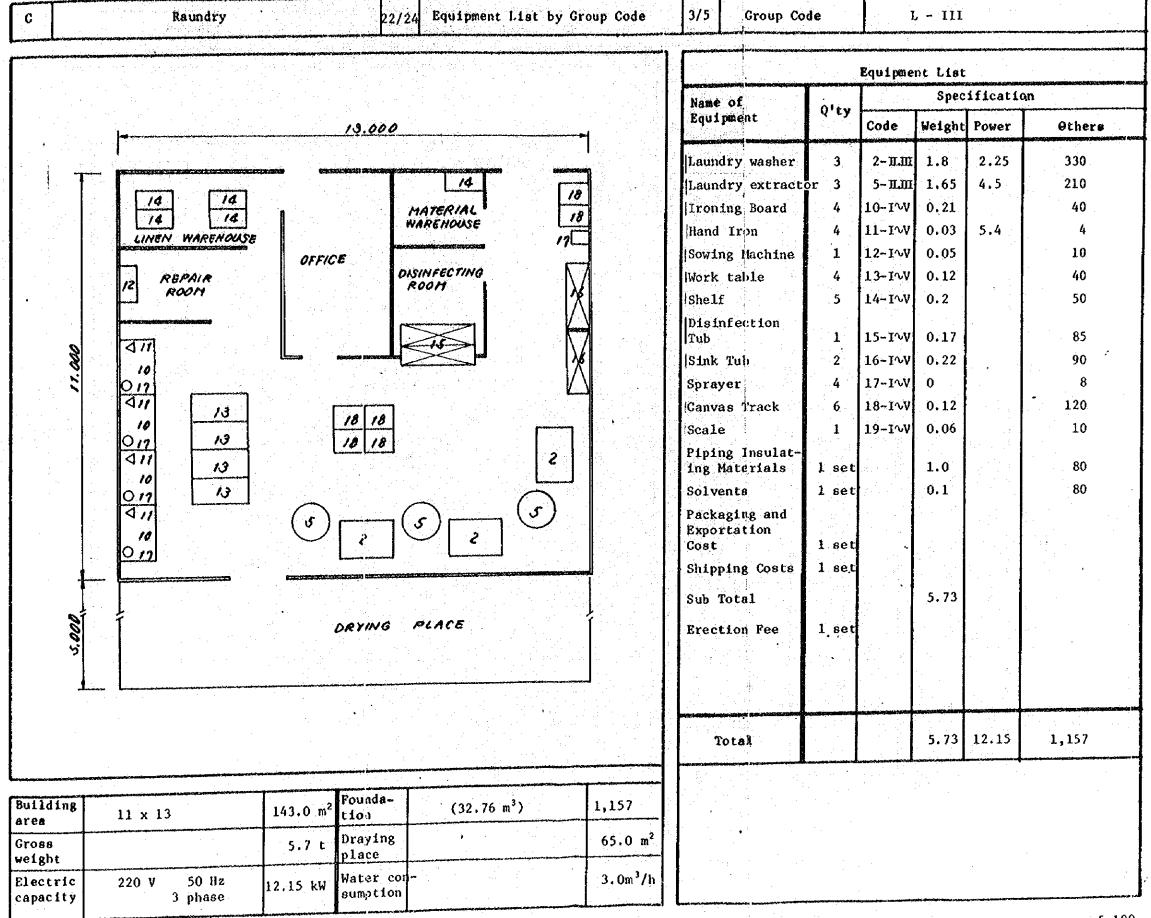
Plate Size : 255(W) × 370(D) × 170(H) mm.

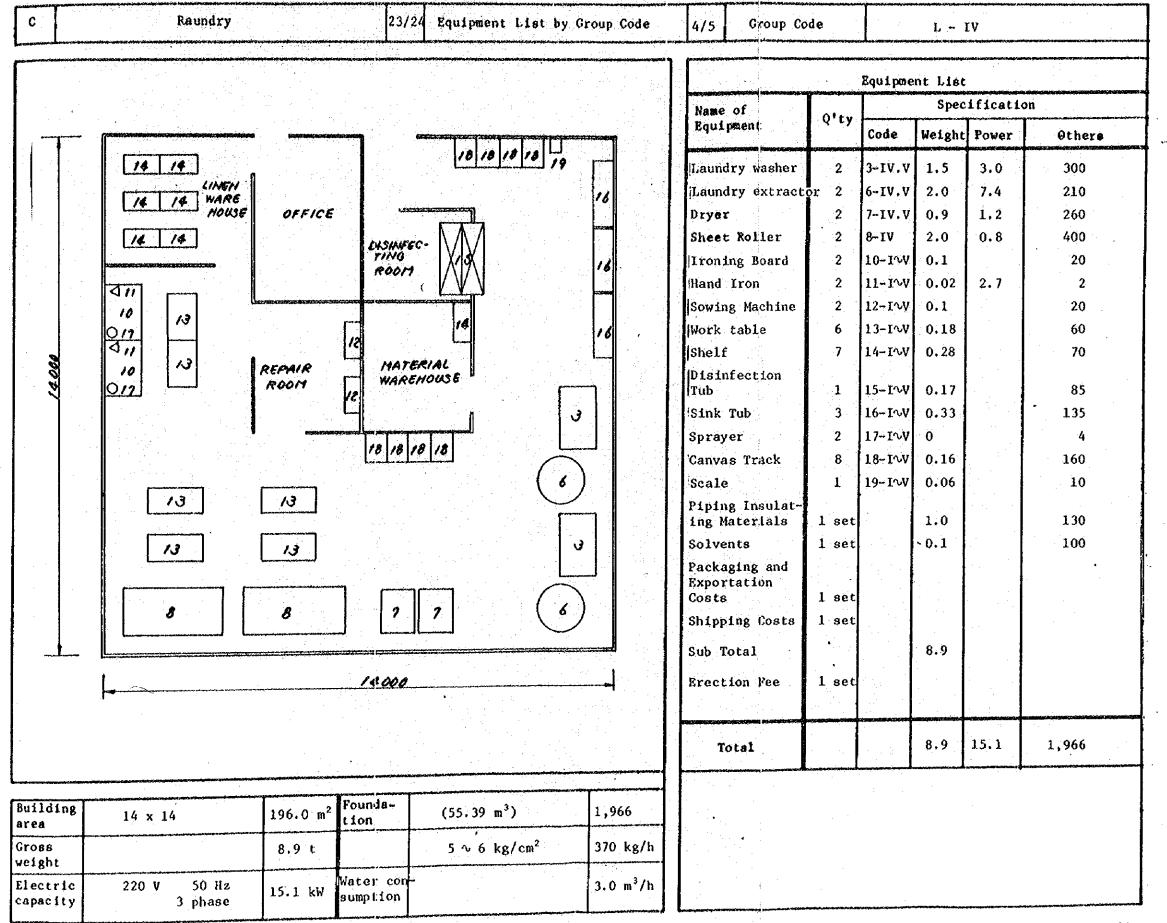
Dial Size : 280 ø mm.

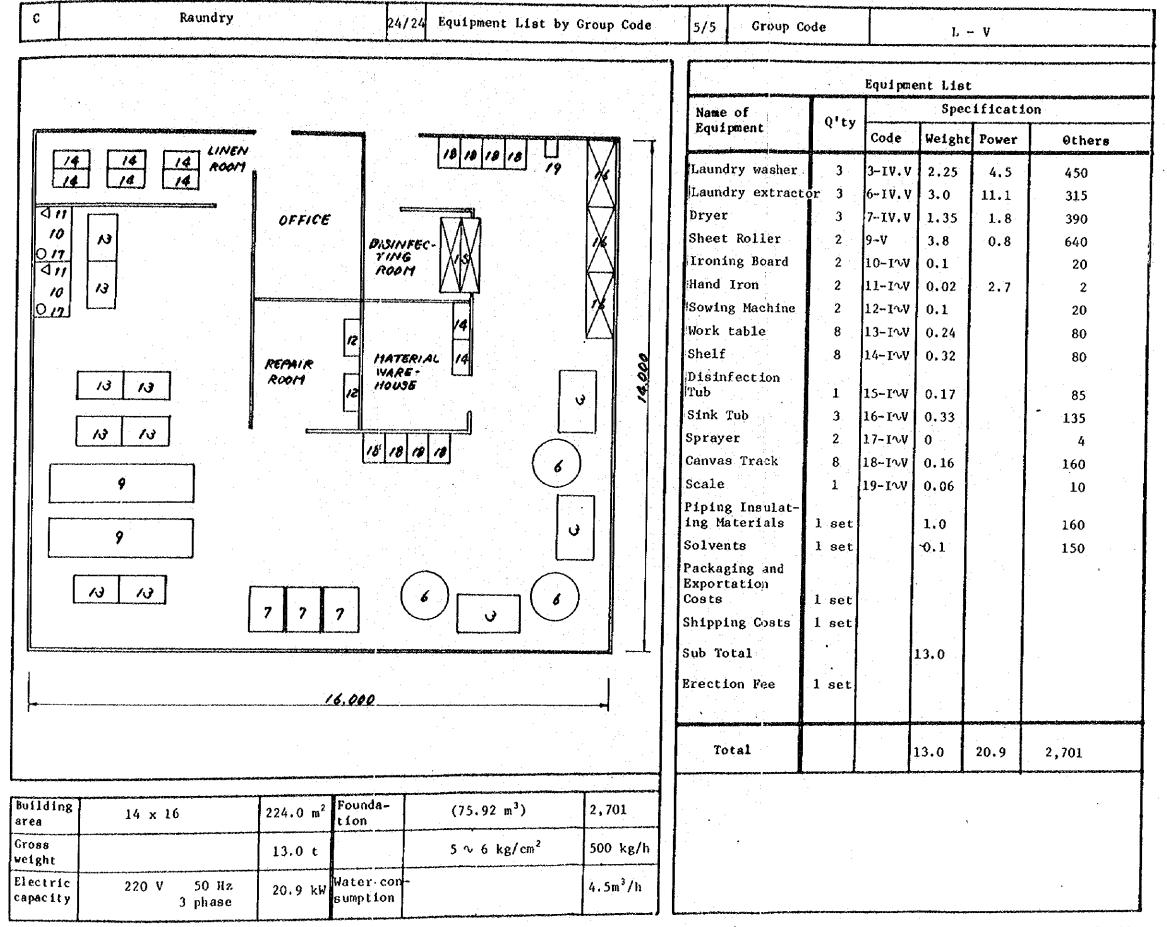
Accessories : Adjust screw and Wheel.











# 5-5 Solid disposal facility

· Appliance selection criteria

Waste quantity per day = 3 kg/bed, day (classes A and B)

= 2 kg/bed, day (classes C, D<sup>+</sup> and D)

Working time = 3 hours/day

Disposed waste quantity per hour

= 1 kg/bed, hour (classes A and B)

=  $\frac{2}{3}$  kg/bed, hour (classes C, D<sup>+</sup> and D)

Mean calorific value =. 2,000 Kcal/kg

Weight per volume '=. 400 kg/m<sup>3</sup>

Necessary auxiliary fuel =. 1,000 kcal/kg

The above estimation is based on the assumption that the waste is considerably watery.

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D	Solid	l Disposal Equipment	1/6	EQUIPMENT LIST	1/2
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	NAME	Incinerator with supplem	entary	burner	- 1

\* Structure: This equipment consists of an incinerator combined with an oil burner. The burner is electrically ignited at a temperature below the preset minimum temperature point. The furnace temperature will rise with the incineration of wastes alone. When it reaches the preset maximum temperature, an electromagnetic valve will automatically be opened to spray water into the furnace so as to prevent further uildup of the furnace temperature. The furnace has a primary combustion chamber in the center with secondary and tertiary combustion chambers in the rear. A blower is provided outside of the front charge door. This blower, together with an air discharge nozzle, will supply air to mix

with combustion gas.

Fuel : Heavy oil A (solar oil)

°0il tank : 170 liters

'Max. temp. Furnace temperature is sensed by a thermocouple and water is autocontrol matically sprayed into the furnace with the electromagnetic valve.

Water pipe: 1/2"

Spare : Thermocouple (with compensation lead) 3 sets

Spray nozzle (with pipe) 3

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
]-1.I1-(a)	Disposal capacity: 150 kg/Hr  Area of fire grate: 1.08 m <sup>2</sup> Capacity of primary combustion chamber: 1.71 m <sup>3</sup> Air feed fan : 1 ø, 100V, 0.4 kw  Pilot burner : " 0.15 kw  Fuel oil consumption: 13.2 k/Hr  Flue tube : 400 ø × 6.4 m	7.0	0.55
Penirks	The section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the se	d	and the first of district a strong and described by the processing

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NAME Incinerator with supplementary burner

### TECHNICAL DATA

hen no.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KE)
l-111 ∿ V	Disposal capacity: 300 kg/Hr Area of fire grate: 1.76 m² Capacity of primary: 3.78 m² combustion chamber Air feed fan: 3 \$\phi\$, 220V, 1.5 kw Pilot burner: " 0.2 kw Fuel oil consumption: 24.6 \$\frac{2}{17}\$Flue tube: 550 \$\phi\$ × 7.8 m	)4.5	1.7
žīvarks			

n i	Soile	d Disposal Equipment	0.4	And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t		
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N	RAME	Self-burning type inciners	ator			
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° Structure: This incinerator has an "Air-Clone" in the center of the furnace.

The Air-Clone contains a cyclone (made of stainless steel).

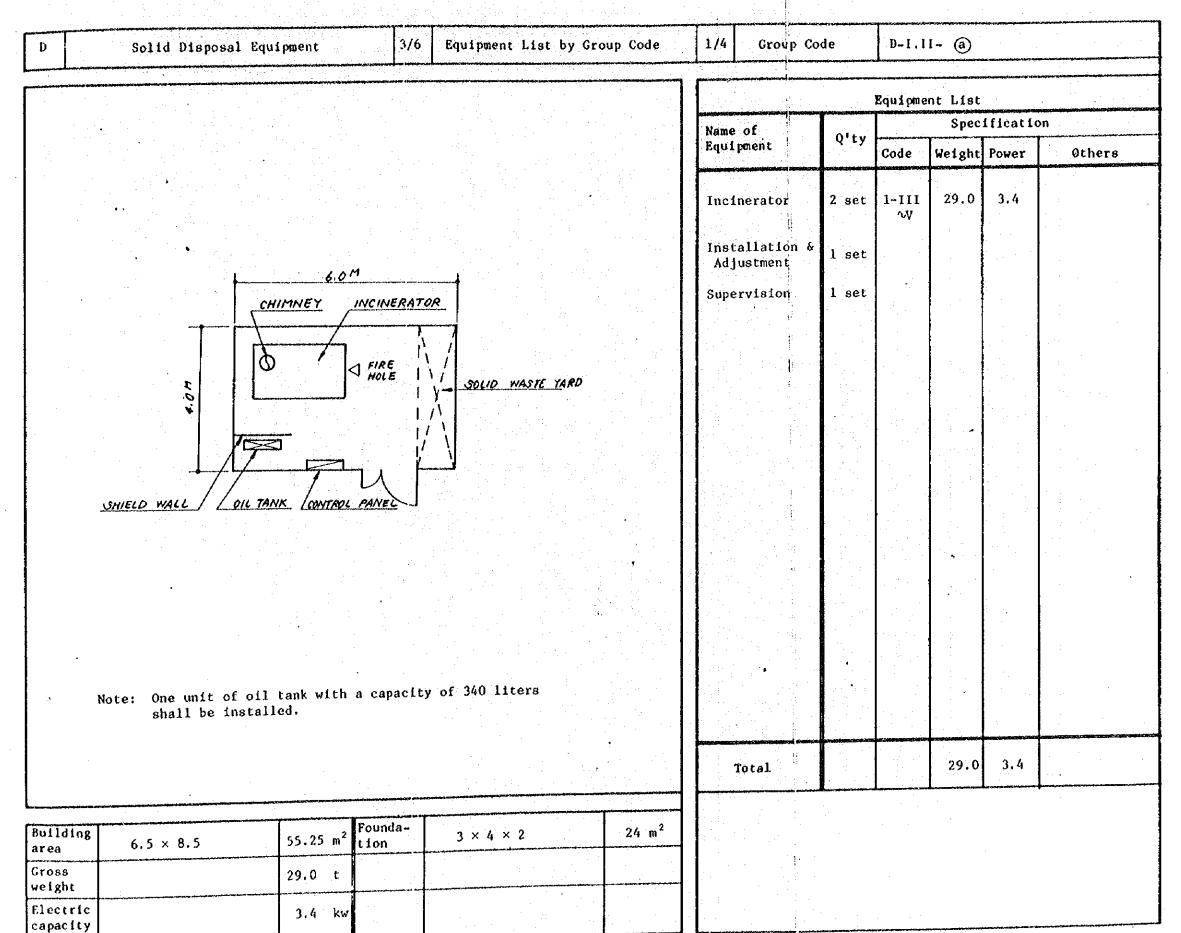
Air is supplied by a blower to an air header located in the front so that air will be fed to the Air-Clone and fire hole ring. Air which has been supplied to the Air-Clone is then discharged through its multiple small air holes to mix with combustion gas.

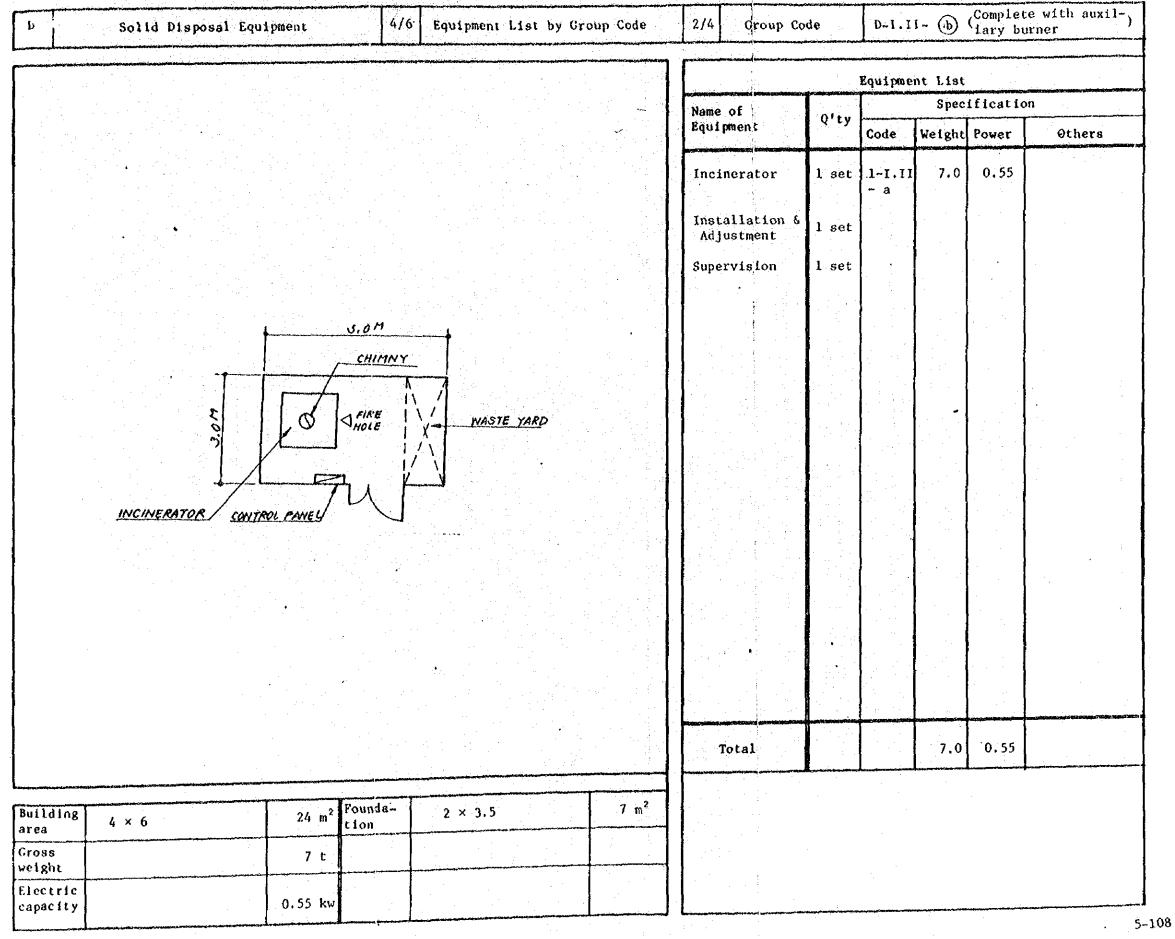
\* Max. temp. A thermocouple senses furnace temperature and activates an electrocontrol magnetic valve so that it will automatically spray water into the

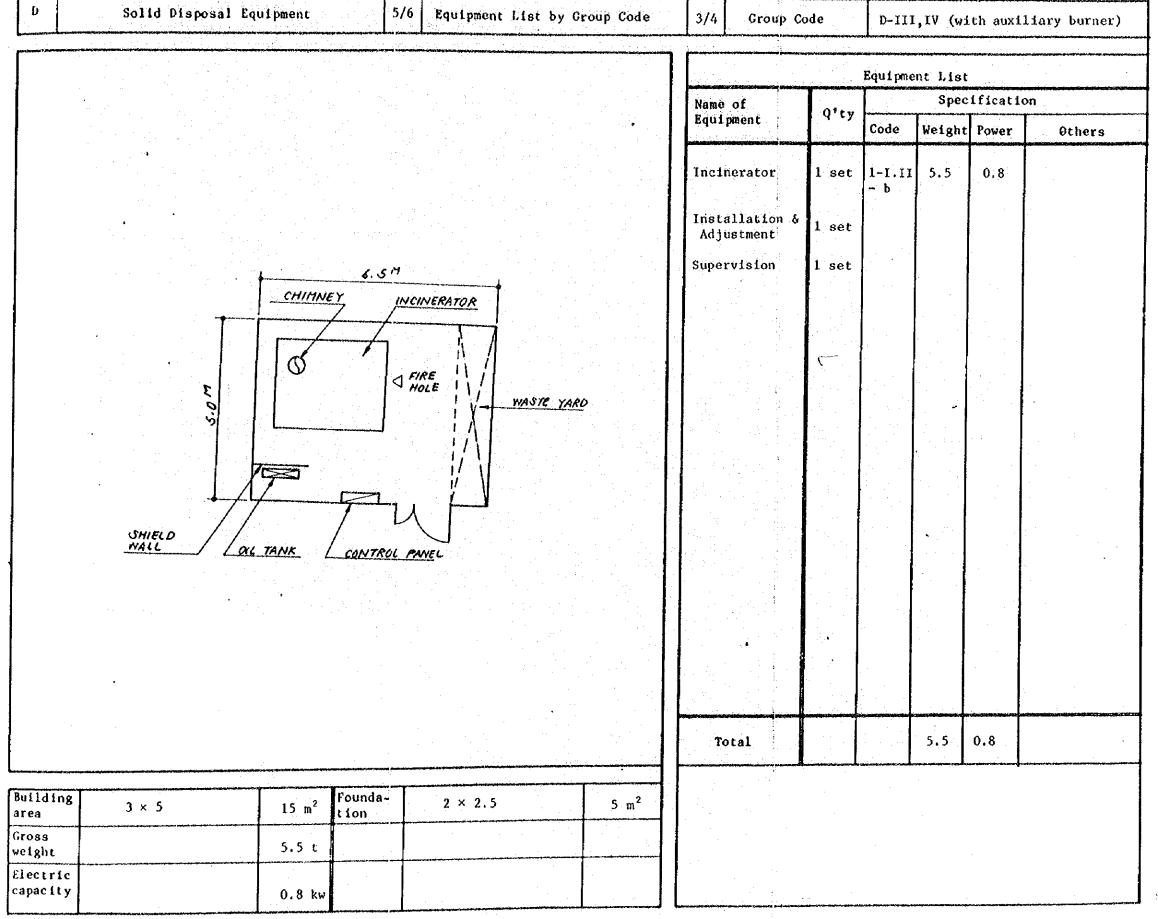
° Water pipe: 1/2"

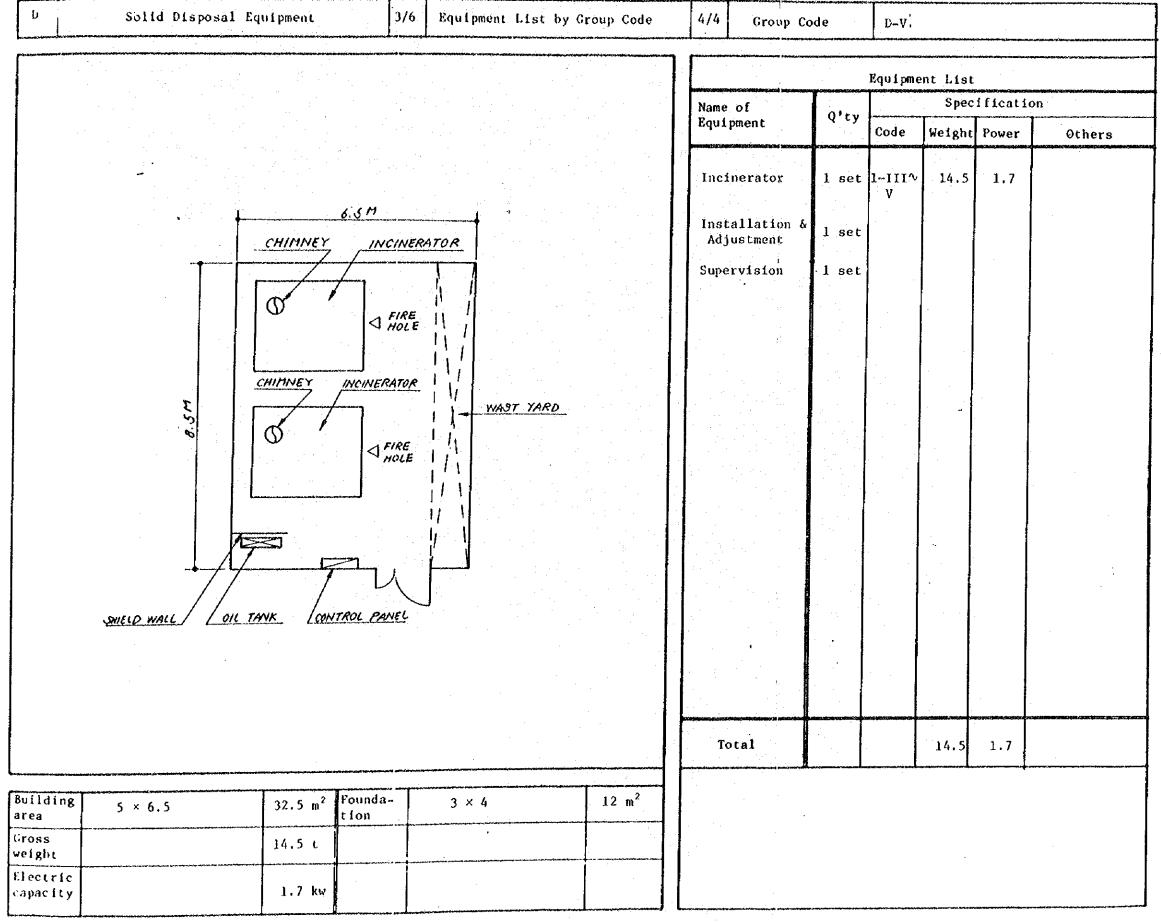
Spare : Thermocouple (with compensation lead) 3 sets
Spray nozzle (with pipe) 3 "

HEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
-1.II-(b)	Disposal capacity: 135 kg/Hr Area of fire grate: 1.12 m <sup>2</sup> Capacity of combustion chamber: 1.35 m <sup>3</sup> Blower: 3 \$\delta\$, 220V, 0.8 kw Flue tube: 350 \$\delta \times 5.1 m	5.5	0.8
MEMARKS			









6 Boiler - boiler plant Steam consumption

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	Necessary	Steam consumpt	ion (kg/hour)
Appliance	(kg/cm <sup>2</sup> )	Gunung Wenang Ujung Pandang	Medan
Rice cooker, dishwasher and disinfector	l or less	40	50
Washer, drier and sheet roller	5 ∿ 6	400	600
Autoclave and supersonic washer	3 ~ 4	200	300
Distiller	3 ~ 4	70	70
Distiller	3 ~ 4	70	70
		780 Kg/Hr	1,090 Kg/Hr
	Rice cooker, dishwasher and disinfector Washer, drier and sheet roller Autoclave and supersonic washer Distiller	Appliance (kg/cm <sup>2</sup> )  Rice cooker, 1 or less dishwasher and disinfector  Washer, drier 5 \( \sigma 6 \)  Autoclave and supersonic washer  Distiller 3 \( \sigma 4 \)	Appliance (kg/cm²) Gunung Wenang Ujung Pandang  Rice cooker, dishwasher and disinfector  Washer, drier and sheet roller  Autoclave and supersonic washer  Distiller 3 ~ 4 70  Distiller 3 ~ 4 70

ppliance selection criteria

Boiler capacity \* Steam consumption  $\times 1.5$   $\times 3$  (cans)

(where one can is for stand-by use)

Boiler steam pressure = 7 kg/cm<sup>2</sup>

Main oil tank capacity

= (0il consumption per week) x 2 (cans)

Oil service tank capacity

\* (0il consumption in two weeks) x l(can)

Used oil : Heavy oil A (Solar)

Pipe arranging method: No water recirculating pipe

TECHNICAL DATA  Type : Spiral smoke tube and straight wax. pressure : 10 kg/cm²  Yax. pressure : 7 kg/cm²  Tell : Heavy oil A (Solar oil)  Operation control method : H-L-Off or On-Off, full automate water supply : 3 %, 220V  Wotor control panel: To be treated for heat resistant soiler plant consists of:  Boiler proper   1 unit   1 will off the set of	ic operation
TECHNICAL DATA  Type : Spiral smoke tube and straight wax. pressure : 10 kg/cm² Rorking pressure : 7 kg/cm² Fuel : Heavy oil A (Solar oil) Operation control : H-L-Off or On-Off, full automate water supply : 3 6, 220V Solor control panel: To be treated for heat resistant soller plant consists of:  Boiler proper   1 unit   1   Oil burner   1 " (2   Full automatic combustion   1 set   Automatic water regulator   1 " Control panel   1 " Kater pump (multistage)   2 units   Water injector   1 " Flow meter   1 "	ic operation
Type : Spiral smoke tube and straight yax. pressure : 10 kg/cm² Working pressure : 7 kg/cm² Fuel : Heavy oil A (Solar oil) Operation control method : H-L-Off or On-Off, full automate Power supply : 3 %, 220V Wotor control panel: To be treated for heat resistant Soiler plant consists of:  Boiler proper   1 unit   1   Oil burner   1 " (2   Full automatic combustion device   1 set  Automatic water regulator   1 " Control panel   1 " Water pump (multistage)   2 units Water injector   1 " Flow meter   1 "	ic operation
Type : Spiral smoke tube and straight yax. pressure : 10 kg/cm² Working pressure : 7 kg/cm² Fivel : Heavy oil A (Solar oil) Operation control method : H-L-Off or On-Off, full automate Power supply : 3 %, 220V Wotor control panel: To be treated for heat resistant Soiler plant consists of:  Boiler proper   1 unit   1   Oil burner   1 " (2   Full automatic combustion device   1 set  Automatic water regulator   1 " Control panel   1 " Water pump (multistage)   2 units Nater injector   1 "	ic operation
Working pressure : 7 kg/cm²  Fuel : Heavy oil A (Solar oil)  Operation control : H-L-Off or On-Off, full automat  Power supply : 3 \$\delta\$, 220V  Motor control panel: To be treated for heat resistan  Soiler plant consists of:  Boiler proper   1 unit   1  Oil burner   1 " (2  Full automatic combustion   device   1 set  Automatic water regulator   1 "  Control panel   1 "  Water pump (multistage)   2 units  Water injector   1 "  Flow meter   1 "	ic operation
Working pressure: 7 kg/cm²  Fivel: Heavy oil A (Solar oil)  Operation control  method: H-L-Off or On-Off, full automat  Power supply: 3 \$\delta\$, 220V  Solor control panel: To be treated for heat resistan  Soiler plant consists of:  Boiler proper: 1 unit 1  Oil burner: 1 " (2  Full automatic combustion device: 1 set  Automatic water regulator: 1 "  Control panel: 1 "  Water pump (multistage): 2 units  Water injector: 1 "  Flow meter: 1 "	ic operation
fuel : Heavy oil A (Solar oil)  Operation control : H-L-Off or On-Off, full automate were supply : 3 %, 220V  Solar control panel: To be treated for heat resistant soler plant consists of:  Boiler proper   1 unit   1   (2   (2   (2   (2   (2   (2   (2	
method ; H-L-Off or On-Off, full automate Power supply : 3 %, 220V Notor control panel: To be treated for heat resistant soiler plant consists of:  Boiler proper   1 unit   1   (2   1   1   1   1   1   1   1   1   1	
Rower supply : 3 %, 220V Rotor control panel: To be treated for heat resistan Roiler plant consists of:  Boiler proper	
Rower supply : 3 %, 220V Rotor control panel: To be treated for heat resistant Soiler plant consists of:  Boiler proper 1 unit 1 Oil burner 1 " (2 Full automatic combustion device 1 set  Automatic water regulator 1 " Control panel 1 " Water pump (multistage) 2 units Nater injector 1 " Flow meter 1 "	
Motor control panel: To be treated for heat resistant consists of:  Boiler proper	
Boiler plant consists of:  Boiler proper 1 unit 1 Oil burner 1 " (2 Full automatic combustion device 1 set  Automatic water regulator 1 " Control panel 1 " Water pump (multistage) 2 units Water injector 1 " Flow meter 1 "	og.
Boiler proper Oil burner Full automatic combustion device Automatic water regulator Control panel Water pump (multistage) Vater injector Flow meter	, c
Oil burner Full automatic combustion device Automatic water regulator Control panel Water pump (multistage) Vater injector Flow meter  1 " (2)	
device 1 set Automatic water regulator 1 " Control panel 1 " Water pump (multistage) 2 units Nater injector 1 " Flow meter 1 "	set of spare parts
Automatic water regulator 1 " Control panel 1 " Water pump (multistage) 2 units Water injector 1 " Flow meter 1 "	years requirement)
Control panel  Water pump (multistage)  Water injector  Flow meter	
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Flow meter	
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Piping 1 set	
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ien no.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY
- 1V	Equivalent evaporation (rated capacity) 900 kg/Hr Oil consumption (rated capacity)	4.5	10.0
- 1	Equivalent evaporation (rated capacity)	5.5	
	1,200 ke/hr	5.0	The second section is a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second
	011 consumption 72 %/Hr	6.6	11.0
MRKS	Product weight: 3.9t for 1-IV, 4.3t for 1-V		- Marine Marine Control of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the
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Bottom - Net weight 5-112

El Boll	er-Boiler Plant 2,	/13	EQUIPMENT LIST	2/1
NAME	Main oil tank			
<del>ngagaga sababahan</del> akan 40 kg	TECHNICAL.	DATA		
Type System	Round type, steel plate, wel Rust preventive treatment on (Protective material to be in		locally)	
ccessor le	s; Oil filling inlet 1 second 1 check valve 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering 1 metering 1 metering band, etc. 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 metering port 1 mete			

ier no.	SPECIFICATION	WEIGHT.	ELECTRIC CAPACITY
- IV	Capacity : 5000 £		(RW)
	Dimensions: 1,400 & × 3,900 L (overall length) Accessories: manhole 2 pcs, oil gauge, etc.	1.8	
P	Same as above	6.3 t	
****	odine as above	1.8	THE RESERVE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE
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Arks	Product weight: 1.27t for 2-IV, 1.27t for 2-V Cost of protective material is included in equipment of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr		More represented, space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Space of the American Spac

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E)	Boiler-Boiler Plant	3/13	EQUIPMENT LIST	3/11
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NAME 011 service tank

### TECHNICAL DATA

Type : Square type, steel plate welding construction

Accessories: To be provided with connecting ports for oil supply, oil return, oil feed, oil drain, overflow, air vent pipe, etc. as well as float switch, and level gauge mounting seats.

Oil gauge 1 set Manhole 1 "

With frame, 1,000 m

HEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KN)
3 - IV	Capacity : 500 £  Dimensions: 700 × 700 × 1,000 m	0.27	nera mengebi iga di menangen permaganakan pendagan kanan dan pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak pendagan berandak penda
- v	Frame : 1,000 m	0.73	
	Capacity: 600 ½ Dimensions: 800 × 800 × 1,000 m	0.3	
-	Prame : 1,000 m	0.86	
DYARKS	Product weight: 0.23t for 3-IV, 0.26t for 3-V	<u></u>	The Material State of the State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of Stat
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Bottom - Net weight

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£1	Boile	er-Boiler Plant	4/13	EQUIPMENT LIST	4/11
1	vame	Oil gear pump			
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Туре

: Direct drive, gear pump

Accessories: Shaft coupling protective cover 1 set

Motor

Flange (with bolts)

Anchor bolt, etc.

Heatproof treatment, 3 \$, 2200

ITEX NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY
- IV	15 $6 \times 10$ $\ell/\min \times 0.4$ kw	0.05	(KW)
. "	Dimensions: 500 W × 700 L × 400 m	0.05	0.4
- V {	Same as above	0.05	mender men op versjohele groep hav en versjohen har geven bevaal
		0.05	0,4
3ARKS	Product weight: 0.044t for 4-1V, 0.044t for 4-	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	e de regione de la companyación de com-

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El Boil	er-Boiler Plant	5/13	EQUIPMENT LIST	5/11
			n general de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition de la proposition della proposition de	
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	TEC	HNICAL DATA		
Туре	: Multistage centrifug	al pump		
Accessori	es: Stop valve	1		
	Check valve	1		
	Pressure gauge	1		
	Priming funnel	· · · · · · · · · · · · · · · · · · ·		
	Purge valve Drain valve	1		
	Shaft coupling protec	tive 1		
	Flange (with bolts)	1		
	Anchor bolt, etc.	1		
Motor	: To be treated for hear	t resistance ;	3 ø, 220v	

IU XO.	SPECIFICATION	WEIGHT. (T)	ELECTRIC CAPACITY (KE)
· IV	40 \$ × 160 £ × 20 m × 1.5 kw Dimensions: 300 W × 860 L × 380 m	0.13	1,5
· V	Same as above	0.12 ° 0.13 ° 0.12 °	1.5
		on only conducting	
Maks	Product weight: 0.115t for 5-IV, 0.115t for 5-V		em drawe de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir de la partir dela partir de la partir de la partir de la partir de la partir dela partir de la partir de la partir dela partir d

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El Boile	r-Boiler Plant	6/13 EQUIPMENT LIST	6/11
NAME	Filtration equipme	nt	Marie and described to the second second second
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	T	ECHNICAL DATA	İ
Criteria	: Raw water	quality turbidity 8 degrees	7-W-84-1-44
	Quality of	f treated water " below 2 degree	e.s
1	Filtration	1  speed $LV = 6  m/H$	]
	Backwash s	speed LV = over 25 m/H	
Equipment	components: Flow meter	, single operation valve, filter porper, lter medium, pressure gauge, etc.	filter
Spare parts (for 2 year		1um 300 & (6 - VI) 350 & (6 - V)	

Sheet packing 1 pc

Operation method

Gauge pipe 2 pcs

: Manual changeover operation

TEN NO. WEIGHT. SPECIFICATION ELECTRIC CAPACITY . (T) Filter medium :  $1 \times 2 \text{ m}^3/\text{H}$ Dia of - IV 1.1 Filter medium : 300 l Dia. of main pipe : 40 A Equipment dimensions: 650 \$ × 1.524 m 1.3 Flow rate ۱۲ -: 2 ~ 4 m<sup>3</sup>/H Filter medium 1.3 : 350 £ Dia. of main pipe : 40 A Equipment dimensions: 750  $6 \times 1.524$  m 1.8 DURKS

E1	Boiler	r-Boiler Plant	7/13	EQUIPMENT LIST	7/11
			<del></del>	والمراوع والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية والمتعارية وا	
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NA.	ME	Water softener			

Criteria

: Raw water quality

hardness 5°dH (89.25ppm as CaCO<sub>3</sub>)

Quality of treated water

below 0.1°dH

Flow rate

LV = over 5 m/H

Equipment components: Water softener, flow meter, single control valve, ion

exchange resin, pressure gauge, etc.

Spare parts

(2 years supply)

: Ion exchange resin 300 ½ (7 - VI), 350 £ (7 - V)

Sheet packing

1 pc

Gauge pipe

2 pcs

Operation method

: Manual changeover operation

ITEN NO.	SPECIFICATION	WEIGHT. (T)	ELECTRIC CAPACITY (KW)
) - IV	Flow rate : $4 \sim 10 \text{ m}^3/\text{H}$ , $120 \text{ m}^3/\text{cycle}$ Ion exchange resin : $300 \text{ k}$ Dia. of main pipe : $40 \text{ A}$ Equipment dimensions: $650 \text{ m} \times 1.524 \text{ m}$	0.88	-
V ·	Flow rate : 4 \( \cdot 10 \) m <sup>3</sup> /H, 140 m <sup>3</sup> /cycle  Ion exchange resin : 350 g  Dia. of main pipe : 40 A  Equipment dimensions: 750 g/ × 1,524 m	1.3	-
EMARKS		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	nn to a seather one of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the colonial section of the col

El Boiler	-Boiler Plant	8/13	EQUIPMENT LIST 8/11
NAME	Softened water tank		

Type

: Square type, steel plate welding construction

Interior - epoxy resin coating

Exterior - rust preventive treatment

Accessories: To be provided with connecting ports for feed water, drain water, overflow, air vent pipe, etc. as well as electrode mounting seat

Manhole  $600 \times 600$ , frame 500H

IEI NO.	SPECIFICATION	WEIGHT.	ELECTRIC
- 14	Capacity : 1,800 & Dimensions : 1,300 × 1,300 × 1,500 m Frame : 500 m Accessories: Manhole and others	0.99 2.6	CAPACTTY (KW)
	Capacity : 2,400 2 Dimensions : 1,500 × 1,500 × 1,500 m Frame : 500 m Accessories: Manhole and others	1.09	e (10 ° 10 ° 10 ° 10 ° 10 ° 10 ° 10 ° 10
arks	Product weight: 0.75t for 8-IV, 0.91t for 8-V		the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa

Boile	r-Boiler Plant 9/13 EQUIPMENT LIST	9/
NAME	Boiler chemical treatment equipment	,
	TECHNICAL DATA	****************
	DATA	
friter ia	Compound boiler chemicals  Quality of feed water Soft water  Injection point Intake side of feed pump	
quipment c	omponents: Chemical injection pump (3 units),	
	Chemical solution tank (1 unit), check valve, grade hose, etc.	
pare parts 2 years sup	ply) : Compound boiler chemicals 500 kg/2 years (9 - IV)	
	Diaphragm bellows 2 pcs	
eration me	Pump head  1 pc  thod : Automatic operation (in link motion with boiler feed pump  To be treated for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second for the second	
tor	: To be treated for heat resistance	)

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IV XO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY	
1 <b>V</b>	Rate of chemical injection: 8 \( \) 125 cc/min  Discharge pressure : 7 kg/cm²G  Tank capacity : 100 f (tank made of	0.05	(RE)	
7	Motor : 3 6 × 220V × 500m2	0.08	0.09	
to a difference processor	Same as above	0.05	0.09	
		0.08		
J.R.K.S			and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	
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Boil	er-Boiler Plant	10/	EQUIPMENT LIST	10/
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Туре

: Made of steel pipe

Steam pressure less than 10 kg/cm<sup>2</sup>G

Accessories: Trap connecting port

Frame 1,000H

EN NO.	SPECIFICATION	WEIGHT.	ELECTRIC CAPACITY (KE)
- IV	Dimensions: 200	0.43	-
y	Same as above	0.43	and the same agree the same of the same same same same same same same sam
		0.4	
iks	Product weight: 0.37t for 11-1V, 0.37t f	or 11 y	haliana aday da hagibapina dabal yana a biga digi

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NAME

Pipes and flue

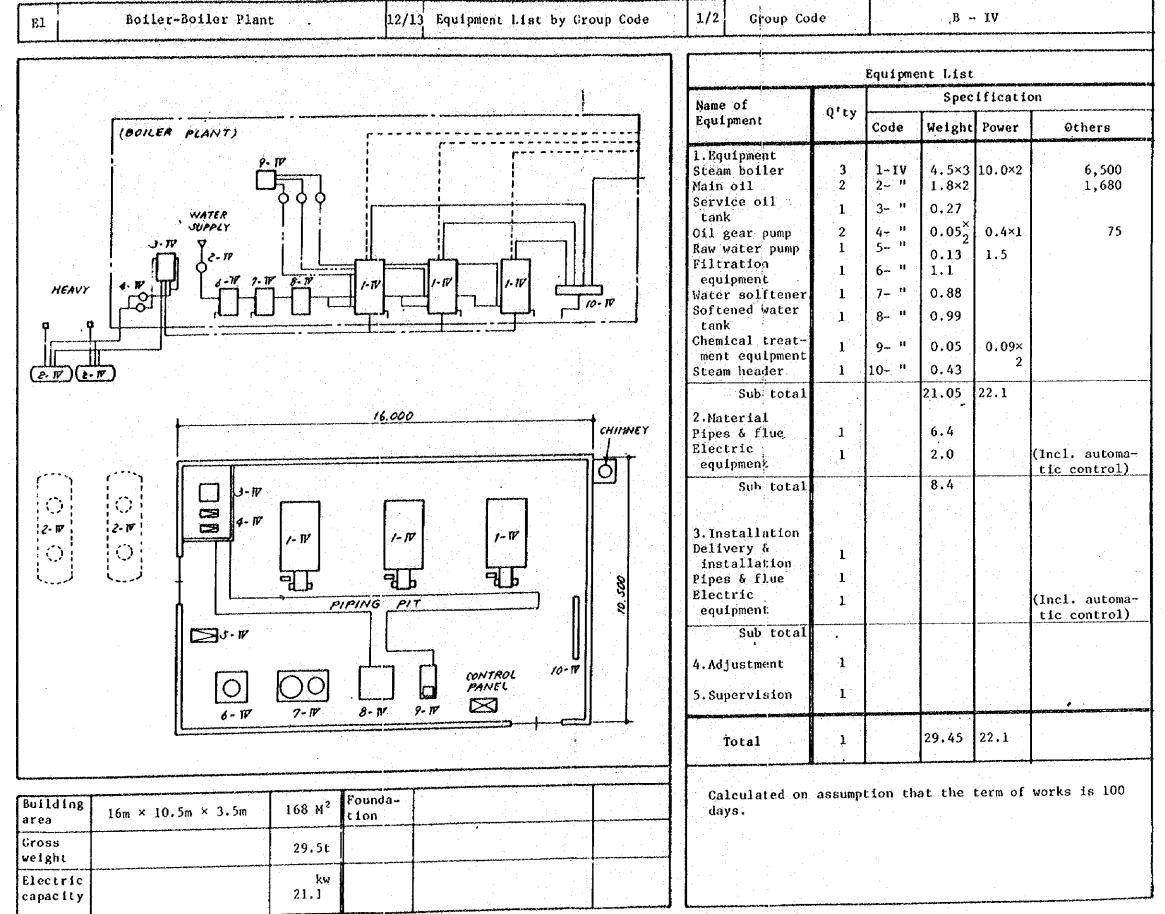
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Classifi cation	Material	Application Point	Insulation	Paint
Esteam pipe	Galvanized iron pipe (black)	THE TOTAL	Rock wool + cotton finish	Filler + ready mixed paint
		Concealed	" + aluminum glass cloth	
		In pit	" + water- proof hemp cloth	
		Exposed, exterior	" + galva- nized iron sheet	Anti-corrosive paint + ready mixed paint
pipe	Vinyl lin- ing iron pipe	Exposed, interior  Concealed	Form polystyrene + cotton cloth	Filler f ready mixed paint
		oonceated	vinyl tape	

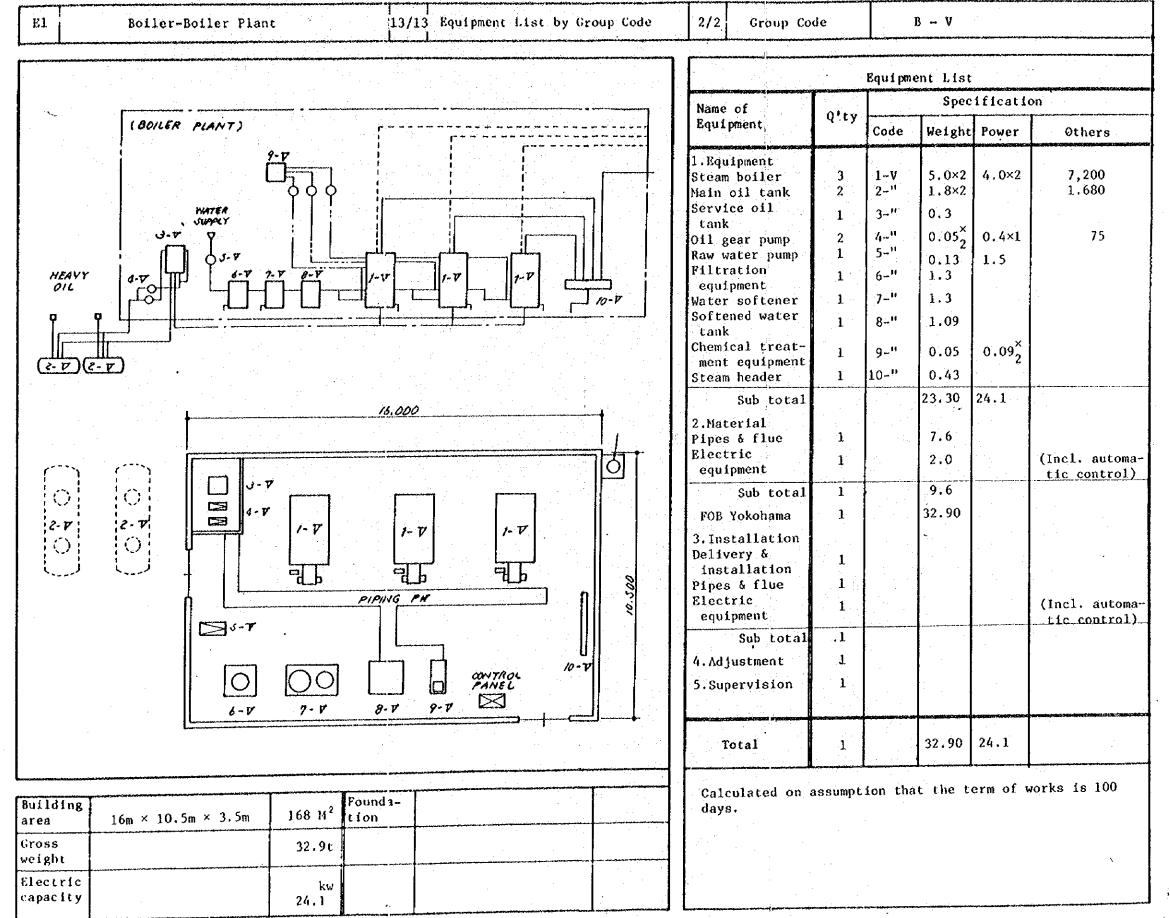
Piping Insulation Painting Pluc Electricity Piping Insulation Painting O.1 Piping Insulation Painting O.3 Painting O.1	ELECTRIC CAPACITY (KE)
Insulation 0.3 Painting 0.3	
Flue 2.2 Electricity 2.0	eer sommen ee
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E1 I	oiler-Boiler	Plant	11/ 13 EQUI	PMENT LI	ST	
NAME	Pipes	and flue				14-h-12-,
	and the second second second second	TECHNICAL	DATA	والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية	**************************************	,
Classifi cation	Material	Application Poin		ion	Paint	
Kater pipe		In pit	Foam polystre waterproof he	ene +	Filler 4 rec	dу
ı		Exposed, exterior	Foam polystre galvanized in	ne + on sheet	Anti-correct	
Drainage pipe	Galvanized iron pipe (for water.	Exposed, interior	Foam polystyr cotton cloth	ene +	Filler + read	ly
	supply)	In pit	Foam polystyre viuly tape	ene +	De 20	
		Highly humid place	Foam polystyre galvanized iro	ene + on sheet	Filler + read mixed paint	y
Pil pipe	Galvernized iron pipe (black)	Exposed, interior			Filler + ready mixed paint	)'
		In pit			Filler + ready	,
		Buried portion	Wound with jut	e	her the	
TEY NO.		SPECIFICATION		WEIGHT	ELECTRIC CAPACITY	
				. (T)	(KW)	
MARKS		foregrands and administrative territories and designed along of the state rate relative and along a space of				~
ight; To	op - Gross sh ottom - Net w	ipping weight eight 5-123		<del>a kanganganganganganganganganganganganganga</del>		

El	Boiler-Boiler P1		1.3 EQUIPMENT	LIST
NAME	Pipes and	d flue		training to grant and the second grant dealers are particularly the second grant and are recognised as the second
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		to the state of the state of the state of the state of the state of the state of the state of the state of the		ar dan ayang ang ang ang ang ang ang ang ang ang
Flue	steel plate construction (4.5 mm)	Av	75mm Rock wool + galvernized iron sheet	Filler + Heatproof pain
		Specific gravity 1-1/2-3" = 30mm; ation: Thickness	$32\text{kg/m}^3$ ; thickness $1/2$ over $4'' = 40\text{mm}$ 20mm	2 - 1" = 25 mm;
		x-1/2-3 = 30  mm;	over 4" = 40mm	2 - 1" = 25 mm;
		x-1/2-3 = 30  mm;	over 4" = 40mm	2 - 1" = 25 mm;
		x-1/2-3 = 30  mm;	over 4" = 40mm	2 - 1" = 25 mm;
		x-1/2-3 = 30  mm;	over 4" = 40mm	2 - 1" = 25 mm;
		x-1/2-3 = 30  mm;	over 4" = 40mm	2 - 1" = 25 mm;
		x-1/2-3 = 30  mm;	over 4" = 40mm	2 - 1" = 25 mm;
		x-1/2-3 = 30  mm;	over 4" = 40mm	2 - 1" = 25 mm;

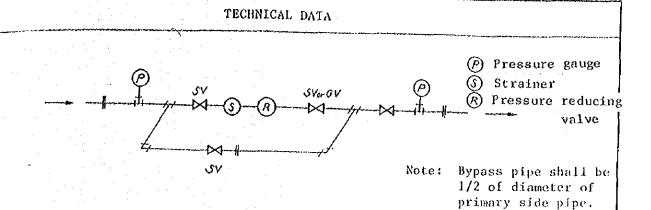
IEY NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
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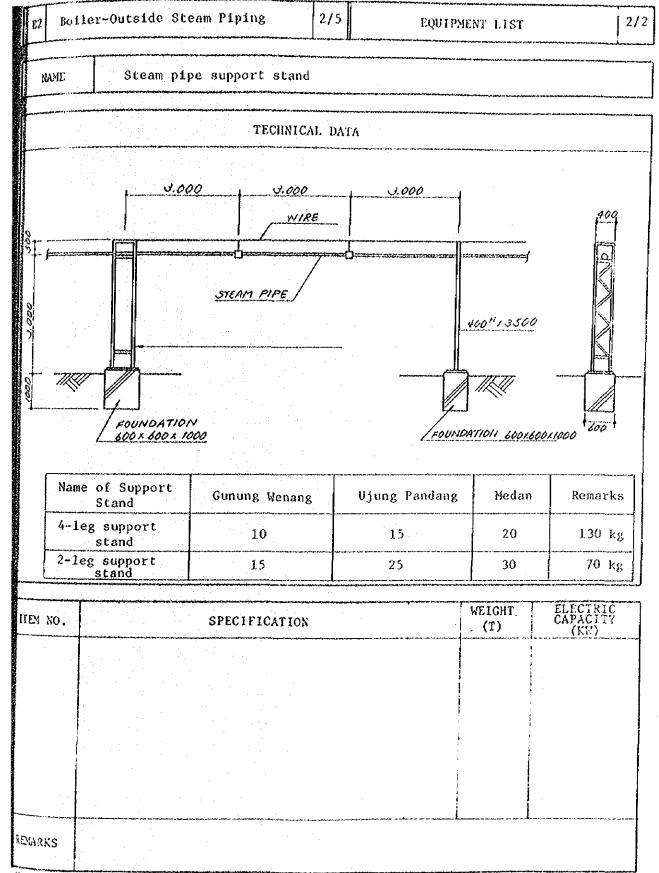
NAME Pressure reducing valve



Valve Size Table

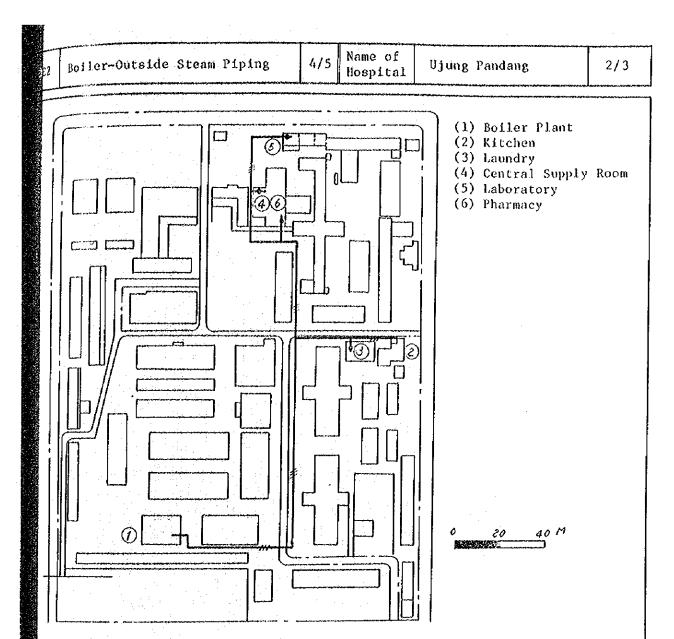
Name of equipment	Gunung Wenang	Ujung Pandang	Hedan	Remarks
Kitchen	3/4 × 1/2	$3/4 \times 1/2$	3/4 × 3/8	
Laundry	1 1/4 × 1/2	1 1/4 × 1/2	1 1/2 × 1 1/2	1
Central Supply Room Autoclave	3/4 × 3/4	3/4 × 3/4	1 × 1	
" " " Ultrasonic washing machine	3/4 × 3/8	3/4 × 3/8	3/4 × 3/8	
Pharmacy	$3/4 \times 3/4$	3/4 × 3/4	3/4 × 3/4	
Laboratory	$3/4 \times 3/4$	3/4 × 3/4	3/4 × 3/4	]
		(Flange dia.) x	(Piping dia.)	(. <del></del>

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KU)
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DYARKS			

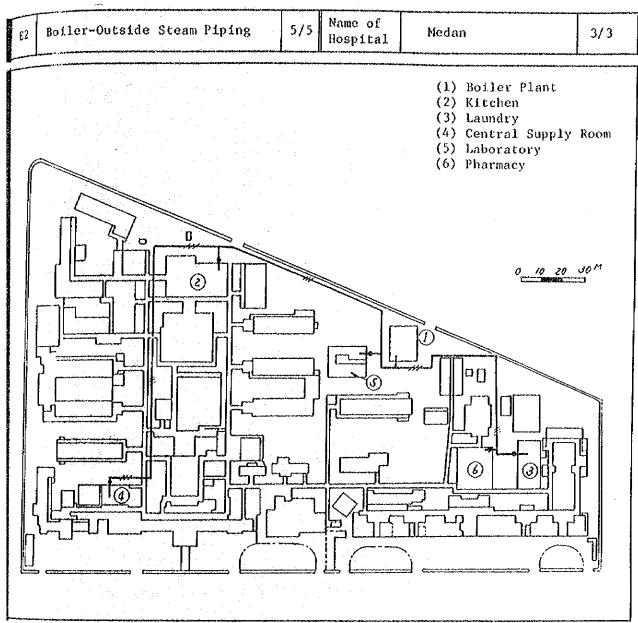


12	Boiler-Outside Steam Piping	3/5	Name of Hospital	Gunung Wenang	1/3
				(1) Biler Plant (2) Kitchen (3) Laundry (4) Central Supp (5) Laboratory (6) Pharmacy	oly R.

Item	Specification	Q, ty	Remarks
eam pipe	15 A	5 m	Expansion bend to be installed at:
	20	5	32 A 10 m pitch
	25	10	40 15
	32	180	50 20
·	40	20	65 25
	50	25	
	65	15	
essure re-		l set	$3/4 \times 1/2$ 1 $3/4 \times 3/4$ 3 1 $1/4 \times 1/2$ 1 $3/4 \times 3/8$ 1
Port stand		l set	Angle support (3500H) to be installed at 9m pitch.



Item	Specification	Q, ty	Remarks				
eam pipe	15 A	5 m	Expansion bend to be installed at:				
: 	20	5	32 A 10 m pitch				
	25	10	40 15				
	32	85	50 20				
	40	95	65 25				
	50	30	•				
	65	165					
essure re- cing valve		l set	$3/4 \times 1/2$ 1 $3/4 \times 3/4$ 3 1 $1/4 \times 1/2$ 1 $3/4 \times 3/8$ 1				
Port stand		l set	Angle support (3500H) to be in- stalled at 9m pitch.				



Item	Specification	Q, ty	Remarks				
team pipe	15 A	5 m	Expansion bend to be installed at:				
	20	5	32 A 10 m pitch				
	25	10	40 1.5				
	32	25	50 20				
	40	320	65 25				
	50	20	80 30				
	65	120					
	80	10					
essure re-		1 set	$3/4 \times 3/8  2  1 \times 1  1 \\ 1 \ 1/2 \times 1 \ 1/2 \ 1  3/4 \times 3/4  2$				
port stand		l set	Angle support (3500H) to be in- stalled at 9m pitch.				

# 5-8 Cooling facility

## · Appliance selection criteria

Name of room		Floor space (M <sup>2</sup> )	Unit heat load (Kcal/Hr.M <sup>2</sup> )	Heat load (Kcal/Hr)
Operating room		30	180	5,400
x-ray	apparatus room	36	150	5,400
Coba1	t-60 bomb room	36	150	5,400
	Bacilloscopy room	30	180	5,400
Inspecting room	Disinfecting room	20	250	5,000
	Measuring equipment room	20	180	3,600
Ins	General inspecting roo	m 30	180	5,400
Delivery room		30	180	5,400
I C U		30	180	5,400

Based on the above result of computation, the cooling capacity is standardized at 5,400 Kcal/hour.

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F	Air-Conditioning Unit	1/2	EQUIPMENT LIST	1/1
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NAME

Window-type Air-conditioning Unit

## TECHNICAL DATA

\* Construction: This unit shall consist of a regrigerator, air-cooled radiator, and air conditioner (air filter, evaporator and fan) assembled in a package. The unit shall be so constructed that it will perform its functions when power is supplied. It shall be equipped with a mechanism to control the volume of air as well as an automatic temperature control.

HEM NO.	SP	ECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KH)
(common)	Cooling capacity  Power supply  Compressor	more than 5,400 Kcal/Hr 1 φ or 3 φ 220V 2.2 kw	0.15	2.4
	Fan	0.2 kw		
REMARKS				

Weight; Top - Gross shipping weight
Bottom - Net weight
5-133

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Group Code	Name of Hospital	Operation Room	X-Ray Room	Cobalt Room	Laboratory	Delivery Room	ICU Room	Total	Electric Capacity kw	Weight (Ship- ping t	Remarks
¢ - (1)	Common to D Class	0	0	0	1	0	0	1	2.4	0.15	
c - (2)	Common to D <sup>+</sup> Class	1	1	0	1	0	0	3	7.2	0.45	
c - (3)	Common to C Class	1	1	0	2	0	0	4	9.6	0.6	
c - (4)	Pematang Siantar	2	1	0	3	1	1	8	19.2	1.2	
c - (5)	Gunung Wenang	4	1	0	3	1	1	10	24.0	1.5	
c - (6)	Ujung Pandang	3	2	0	4	1	1	11	26.4	1.65	
c - (7)	Medan	3	2	1	4	1	1	12	28.8	1.8	
	<u> </u>			<u>. 1</u>							

WATER SUI	PLY FACILITIES RUNNING COST 1/6 GROUP NUMBER		0
ITEM	CALUCULATION OF ANNUAL CONSUMPTION	UNIT PRICE	RUNNING COST (10 <sup>3</sup> RP/year)
Water	50 beds x 0.3M <sup>3</sup> /beds/day x 365 days/year = 5,475M <sup>3</sup> /year	50 RP/m <sup>3</sup>	274
0il {incine- rator)		25 RP/£	
kerosene (Kitchen)	3l/Hr. x 4 x Hr./days x 0.4 x 365 days/year = 7,008	30 RP/£	210
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NATER SUL	PPLY FACILITIES RUNNING COST 2/6 GROUP NUMBER		I
ITEM	CALUCULATION OF ANNUAL CONSUMPTION	UNIT PRIC	
Water	100 beds x 0.3m <sup>3</sup> /bed, days x 365 days/year = 10,950 M3/year	50 RP/	
Oil (incine- rator)	13.2 l/Hr. x 1 Hr./day x 365 days/year = 4,818 l/year	25 RP/£	120
erosene ((tchen)	3 l/Hr. x 5 x 4 Hr/days x 0.6 x 365 days/year = 13,140 l/year	30 RP/C	394
otal			1,062

VATER SUI	PPLY FACILITIES RUNNING COST 3/6 GROUP NUMBER		I
ITEM	CALUCULATION OF ANNUAL CONSUMPTION	UNIT	
Water	200 beds x 0.3M <sup>3</sup> /beds, days x 365 days/year = 54,900M <sup>3</sup> /year	50 RP	/M <sup>3</sup> 1,095
il cine- ator)	13.2 l/Hr. x 1 Hr./day x 365 days/year = 4,818 l/year	25 RP/	120
ene hen)	3%/Hr. x 7 x 4 Hr./days x 0.6 x 365 days/year = 18,396%/year	30 RP/£	552
			A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR

MATER SUF	PPLY FACILITIES RUNNING COST 4/6 GROUP NUMBER		H
ITEM	CALUCULATION OF ANNUAL CONSUMPTION	UNIT PRICE	RUNNING COST (10 <sup>3</sup> RP/year
Water	300 beds x 0.5M <sup>3</sup> /beds,days x 365 days/year ≈ 54,750M <sup>3</sup> /year	50 RP/M	2,738
Oil (incine- rator)	24.62/Hr. x 1 Hr./day x 365 days/year = 8,979 2/year	25 RP/£	224
erosene (itchen)	3 l/Hr. x 9 x 4 Hr./days x 0.6 x 365 days/year = 23,652 l/year	30 RP/2	710
otal		**************************************	3,672

8	PPLY FACILITIES RUNNING COST 5/6 G	ROUP UMBER		IV
ITEN	CALUCULATION OF ANNUAL CONSUMPTION	N	UNIT PRICE	RUNNING COST (10 <sup>3</sup> RP/year
Water	400 beds x 0.5M <sup>3</sup> /beds,day x 365 days/year = 73,000M <sup>3</sup> /year		50 кр/м <sup>3</sup>	
011 (incine- rator)	(Incinerator)  24.6L/Hr. x 1 Brs/day x 365 days/yes = 8,979L/year  (Boiler)  56L/Hr. x 2 cans x 8 Hr./days x 0.7 x 365 days/year = 228,928L/yea  (Total)  8,979 + 228,928 = 237,907 L/year		5 RP/2	5,948
rosene itchen)		30	RP/£	
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WATER SU	DPPLY FACILITIES RUNNING COST 6/6 GROUP NUMBER		V	******
ITEN	CALUCULATION OF ANNUAL CONSUMPTION	UNIT PRIC	RUNNING COST (10 <sup>3</sup> RP/yo	
Water	600 beds x 0.5M <sup>3</sup> /bed,day x 365 days/year = 109,500M <sup>3</sup> /year	50 RP/1		
011 Incine- rator)	(Incinerator)  49.2L/Hr. x 1 Hr./day x 365 days/year  = 17,958L/year  (Boiler)  72L/Hr. x 2 can x 8 Hr./day x 0.7 x 365 days/year = 294,336L/year  (Total)	25 RP/£	7,807	
osene chen)	17,958 + 294,336 = 312,294 l/year	30 RP/2		
1		<del></del>	13,282	

6 ALTERNATIVE PLAN

# 6-1 Cost Estimate of Project

# 1) Cost Estime of Project (foreign exchange)

(foreign exchange)		
	(unit:	1 Million yen)
Medical equipment	1,593	
Laboratory equipment	141	
Electrical facilities and workshop	1,118	
Water supply facilities and others	409	
Sub-total	3,261	
Freight and Insurance x 0.06	196	•
Trainning x 0.05	163	
Contingency x 0.05	163	
Sub-total	522	
Total	3,783	
(Local currency)		
	(unit: 1	million Rp)
Electric wire construction	1,385	
Share for transformer	314	
Water supply facilities and others	184	
Building	423	
Total	2,306	

Cost for custom's clearance, inland transportation, part of equipment installation, etc. are not estimated.

Unit: thousand yen

				-	OHILL; CHOC	
		Medical equipment	Laboratory equipment	Electricity facilities and work shop	Water supply facilities and others	Total
	Gunung Wenang	192,372	22,095	174,305	92,600	486,372
	Tondano	71,452	6,587	23,542	800	102,381
cst	Ketamubagu	71,452	6,587	17,507	800	96,346
St 32	Gorontalo	71,452	6,587	18,290	5,700	102,029
ah S	Kendage	44,369	1,651	17,122	600	63,742
N O Z	Sub-total	456,097	43,507	250,766	100,500	850,870
	Ujung Pandang	203,775	22,095	145,881	106,800	478,551
	Pare-pare	71,452	6,299	25,209	4,600	107,560
	Palopo	46,320	1,651	18,086	4,400	70,457
	Soppeng	40,461	1,577	93,837	8,400	144,275
WO 83	Tenriawaru	46,385	1,651	95,334	8,200	151,570
725	Elim Rantepao	43,332	1,651	19,510	4,400	68,893
VI DO	Bantaeng	39,310	1,651	91,052	4,000	136,013
	Sub-total	491,035	36,575	488,909	140,800	1,157,319
	Medan	239,456	25,495	171,189	126,300	562,440
	Pematang Siantar	112,924	16,304	93,370	20,600	243,198
3223	Tarutung	71,452	6,353	33,987	5,500	117,292
	Kisaran	71,452	6,470	22,174	4,600	104,696
	Rantau Prapat	44,369	1,335	22,222	9,700	77,626
	Tebing Tinggi	38,404	1,351	18,795	800	59,350
	Tanjung Balai	36,070	1,577	16,727	200	54,574
	Porsea	31,123	1,651	0	0	32,774
	Sub-total	645,250	60,536	378,464	167,700	1,251,950
	Total	1,592,382	140,618	1,118,139	409,000	3,260,139

Cost for each hospital by sector (Local currency)

(Unit:	1	thousand	$R_{\rm p}$ )
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·		<u> </u>	toure: r	thousand	Np/
	Electric wire construction	Share for transformer	Water supply facilities and others	Building	Total
Gunung Wenang	160,000	33,507	0	91,295	204,802
Tondano	40,000	15,409	1,900	6,445	63,754
Kotamobagu	30,000	15,310	o	6,445	51,755
Coroutalo	55,800	15,409	2,000	8,142	81,351
Kendage	38,500	11,235	0	4,918	54,653
Sub-total	324,300	90,870	3,900	117,245	536,315
Ujung Pandang	128,000	33,507	37,000	86,320	284,827
Pare-Pare	50,000	15,409	7,200	6,898	79,507
Palopo	44,700	11,235	6,300	2,146	64,381
Soppeng	30,000	11,235	5,900	8,684	55,819
Tenriawaru	34,000	11,235	2,900	10,109	58,244
Elim Rantepao	22,400	11,235	6,400	2,146	42,181
Bantaeng	37,600	11,235	1,200	8,684	58,719
Sub-total	346,700	105,091	66,900	124,987	643,678
Medan	289,300	34,222	53,100	106,272	482,678
Pemantang Siantar	99,500	18,890	11,200	54,396	183,986
Tarutung	137,300	15,409	26,500	7,358	186,567
Kisaran	62,400	15,409	7,600	7,358	92,767
Pantau Prapat	45,200	11,235	7,300	2,980	66,715
lebing Tinggi lanjung Balai Porsea	42,300 37,100 0	11,235 11,235 0	1,900 5,200 0	998 768 0	56,433 54,303 0
Sub-total	713,100	117,635	112,300	180,130	1,123,665
lotal	1,384,000	313,596	183,600	422,362	2,303,658
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## 6-2 Medical Equipment

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Pematang Siantar		2	2	2	₽	H	2	2 1	. 5	5	4	4	2							
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Kotamobagu		1	τ	7		ĭ	1	ī	4	7	3	3	1					 		
Gorontalo		T	T	Τ	1			1	7	4	3	3	1							
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Palopo			H	1	1				3	3	7	7						 		
Tebing Tinggi		Н	Н	1	7				3	ω	7	2								
Rantan Prapat		-	H	7	Ī			T	3	3	7	2	,i		****					
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#### B. Surgical Equipment

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## T. Medical Education

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Tondano  Kotamobagu  Gorontalo  Pare-Pare  Tartung  Kisaran  Liun Kendage  Katampona  Soppeng  Palopo  Tebing Tinggi  Rutan Prapat  Katan Prapat  Katan Prapat  Rutan Prapat  Herican  Bantaeng	Pematang Stantar	77				 						
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#### U. Miscellameous

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Gorontalo									) 									T
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Elim Rantepae																	 	Ĭ
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1. Clinical Chemistry

Yeem	Description	A.3	O	a
Spectrophotometer	Visible wave length range only. Grating colorimeter-wavelength up to 340 ~ 700nm, tungsten lamp Round-type cubett, slit: less than 20nm, meter; (OD)E & 5%	r-\$	rt	г⊀
Multipurpose semi- automatic analyzer	To be supplied to all D class hospitals *Semiautomated machine constitutes of filter type colorimeter, incubator, digital recorder, printer and timer (small type). Simple measuring instrument requiring no special reagent.			
Contrifuge	With 20 tubes, for A.B class, 8 tubes for C class & 4 tubes for D class	rt	H	Ţ
Electrophoresis apparatus	For cellurose acetate. Plastic electrophoresis box (cover glass), platinum electrode, pipet (graduated in 0.001m, constant voltage 100mA, 300V Dyeing vat, 24 x 24 x 4.5 cm poncew-3R dye, buffer	<b>r-4</b>		
Dencitometer for protein fractionation	For cellurose acetace. For oxide membrane, equipment with printer & digital printer.	н	:	
Water bath	Simple type, temperature range: room temp. to 70°C, Temperature accuracy +0.2°C, 0.5kw, jet-flow circula-ing type.	rel	rel	Н

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Direct vision	Sensitivity: Lmg.VO.5mg. Weighting capacity 200g. sensitivity 0.5 lmg, projected scale of measuring range 0 Llg, with revolving door, digital display.	H	pad.	
Digital balance	Sensitivity 50mg. Balance weights: 0.1, 0.25, 0.5, 1, 2, 5, 10, 20, 50g.	н		
pH meter	Glass electrode, comparison, calibration electrode ph scale graduated in 0 to 14pH, graduation width 1/10pH.	М	H	a make a sold a made of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the sold of the so
Chloride meter Flamie photomoter	(Only one japanese supplier available) Propane gas digital display, without Compressor for measurement of serum Na, K.	ᆏ		
Desiccator	For desiccatant. Separate type, inside dia. 45 60cm, made of glass, with suction parts. (suction cock)	2	2	r-1
Rotary pump	Vacuum pump (small, rotary), displacement approx. 100~200 %/min, pressure up to $10^{-4}$ , 0.4~0.6 kw.	러		
Dry oven (Large)		: <b>н</b>		
Dilutor	Syringe type volume variable type, up to 0.2~5ml.	М		

Microbiology Eduloment (including serology)

Icem	Description	a. A	0	D
Incubator	37°C Large Approx. Exterior painted steep plate 100x50x100cm - 1.5 kw 3 stage	£4	4	
	Small Approx. Interior stainless steel, 60x50x50cm +0.5°C, 1.0kw 2 stage			<del></del>
	Glass inner door, Bimetal thermostat.		,•	,
Dry oven	50 60°C. Approx. 70x50x60cm, bimetal thermostat,	н	H	
	1.0 1.5kw stainless steel, 2-stage partition.			
Sterilizer (dry air)	Approx. 60x40xm or 70x50x60cm. Exterior asbestos,	g4	r=4	
	steel plate, up to 300°C, 2 stages with shelf boards and base (legs), gas or electroity (1.5~2.2kw)			
	- [			
Autoclave	Inside 35x60cm dia. (content) with safety device	2	r-l	
	approx. 1.5 2.0kw, either round or square type may			
A Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp	be supplied.			
Platinum wire loop		10		
Glass place for VDRL	6 holes, 1 sheet.	10	'n	5
Plastic plate for HB		10		
antigen	(Note) Depends on availability of import and storage			
	of reagents	<b></b>	*	<del></del>
	However, supply should be considered because			
	each hospital requires examination of HB antigen.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		-	-	

Shimmel bush type Shimmel bush type Steerilizer (table) Alcohol lamp Glass, 100W Shimmel bush type Steerilizer (table) Alcohol lamp Glass capillary tube For Ht. Heparin coated.  Steer aspirator Connected with tap.  Dry oven (small, Steering)  Shimmel bush type Steerilizer (table) Alcohol lamp Glass capillary tube For Ht. Heparin coated.  Steer aspirator Connected with tap.  Shift field condemser Absorbance factor approx. 75 v 90% Automotic blood cell Determination of white and red cells with dilutor  dilution cups - 1,000	A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	YEV		
type glass, 100w  Electric. Approx. 20x20x30cm, flourescent lump, frosted 1  type Electric. Approx. 20x20x30cm, 500w  able)  For Ht. Heparin coated.  Thastic. Plastic with rubber hose, directly 3  connected with tap.  all, 30x30x30cm 0.5 v 1.0kw  ondenser Absorbance factor approx. 75 v 90%  ood cell Determination of white and red cells with dilutor 1  dilution cups - 1,000	Betator shaker	FOR VIRE, For syphilis examination.	p-1	-	H
type Electric. Approx. 20x20x30cm, 500w  Lable)  Structube For Ht. Heparin coated.  For Ht. Heparin coated.  Connected with tap.  All,  30x30x30cm 0.5 \( \triangle 1.00\)  Absorbance factor approx. 75\( \triangle 9.02\)  and cell Determination of white and red cells with dilutor 1  dilution cups - 1,000	Noo way Build a poor a	For Rh. Approx. 15x15x30cm, flourescent lamp, frosted	 1	 4	
type Electric. Approx. 20x20x30cm, 500v 1  rable)  sry tube For Ht. Heparin coated. 100x200  rer Plastic. Plastic with rubber hose, directly 3  connected with tap. 1  30x30x30cm 0.5 \( \time{\chi} \) 1.0kw  ondenser Absorbance factor approx. 75\( \time{\chi} \) 90%  ond cell Determination of white and red cells with dilutor 1  dilution cups - 1,000	~ ~				
for Ht. Heparin coated.  Flastic. Plastic with rubber hose, directly 3  connected with tap.  all, 30x30x30cm 0.5 ~ 1.0kw  ondenser Absorbance factor approx. 75~90%  dilution cups - 1,000	Shimmel bush type sterilizer (table)	Electric. Approx. 20x20x30cm, 500w	er4		
For Ht. Heparin coated.  Plastic. Plastic with rubber hose, directly 3 connected with tap.  30x30x30cm 0.5 $\nu$ 1.0kw  Absorbance factor approx. 75 $\nu$ 90%  Determination of white and red cells with dilutor 1 dilution cups - 1,000	Alcohol lamp		ı́	٠	5
Plastic. Plastic with rubber hose, directly 3 3 3 connected with tap.  30x30x30cm 0.5 v l.0kw  Absorbance factor approx. 75 v 90%  Cell Determination of white and red cells with dilutor 1 dilution cups - 1,000	Glass capillary cube	For Ht. Heparin coated.	100×200	100×100	100x50
30x30x30cm 0.5 $\sim$ 1.0kw here has approx. 75 $\sim$ 90% becermination of white and red cells with dilutor 1 dilution cups - 1,000	Water aspirater	ic. ted	m	m	M
Absorbance factor approx. 75 ~ 90%  Determination of white and red cells with dilutor  dilution cups - 1,000	Dry oven (small, electric)	30x30x30cm 0.5 ~ 1.0kw	er-f		
Decermination of white and red cells with dilutor dilution cups - 1,000	Dark field condenser	Absorbance factor approx. 75~90%		r-4	r=1
	Automatic blood cell count	Decermination of white and red cells with dilutor dilution cups - 1,000	p-l		į

ltem	Description	<b>£</b> . ∀	U	۵ ا
Microscope	Binocular discussion. Objective: 40x, 20x, 100x,	~		
	ocular: 10x, 4-13ns tube kehler illumination apparatus with transformer: revolver 4 holes, with complicated			
	mechanical stage			
Microscope	Monocular. Objective: 20x, 40x, 90x, ocular: 10x, single lens tube, with complicated mechanical stage, without light source, mirror	<b>∞</b>	7	2
Microscope	Phase contrust. Phase ring, objective lens: 40x, 20x turret condenser 4 holes	H		
Capillary centrifuge for hematocrit	Accessories (SC-01, CC-01, CT-01). Capillary centrifuge for Ht (3 suppliers)	H	H	r-1
Spectrophotometer	or Hb. F	ы	H	
Hemocytometer:	Burker-Turk type	S	æ	2
Hemocytometer	Fuchs-Rosenthal type	ri	r⊀	ī
Stand for red cell sedimentation rate test	For 10 tubes (with pipet)	10	۲v	ιν

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	Protheembin meter		н		
<b></b>	Refractometer	15°C standard, for utine specific gravity and for	·		
	(for serum protein)	serum protein scale, handy type			
	Water bath (37°C)	10x10x30m, small size, with 37°C jet flow agitator	p~{	rł	
L	Calculater		5	2	2
	White cell calculater	Periheral to bone marrow. 12 key, manual, small size	ო	2	
	Melanjeul washer	Rubber product	ന	2	2
6-	Melanjeul	qu	20	10	10
30	Melanjeul	White blood cell	20	10	10
	Melanjeul	Red blood cell	20	70	10
.J					

Itom	Description	K 4	C'	4
Refrigerator	200 lit capacity, with freezer. Content 0%°C	٣	7	Н
Distillater	Refer to Medical equipment Q. 1, 2, 3	a except P.S.		
Distillater	2 $\ell/h$ kerosene, Table type, 1 $\ell/h$ , 2 $\ell/h$ , inside copper or stainless steel, outside asbestos or steel plate, glass cooling tube	Н	r-1	<b>-</b>
Timer		7	P-I	Н
Stop watch		7	<b>,</b> →	<b>r-1</b>
Test tube stand	For medium scale test 2 x 10, 18mm- ordinary glass	20	15	30
Test tube stand	For small scale, $4 \times 10$ , hard glass	07	15	10
Test tube stand	For small scale, 2 x 10, hard glass	20		
Basket for test tubes	Square type 21cm, stainless steel	20	10	10

_			9	- Lancard American	a
	Piper washer	20v25cm dia x 50cm, outer tube glass, inner tube	7	N	2
		plastics, siphon type			
٠	Washing brush	Large	10	Name and Advanced	
<u> </u>	Washing brush	Medium	20		
<u>i</u>	Washing brush	Small	70		]
	Thermometer for test	Mercury. 100°C Graduated in 1/10°C scale, length 20 30 cm	2	2	2
6-3	Thermometer for test	Mercury. 300°C Graduated in 1°C scale, length 20v30cm	2	٣	ĸ
<del>*</del> 2	Thermometer for test	Alcohol. Graduated in 1/10°C scale, length 20v30cm			

Glassware, reagent, other consumptions

Item		Quantity
Glassware measuring pipet	1.0 m2	50
	2.0	50
	5.0	5
	10.0	5
Vol pipet	1.0	5
	2.0	5
	3.0	5
	5.0	5
Ostward pipet	0.1	10
	0.2	10
	0,5	10
Komagome pipet	5.0	25
Pipet for sedimentation		50
Measuring flask (flat bottom)	20 ml	3
	50	3
	100	3
	1000	3
	3000	2
Measuring cylinder (with stopper)	50	3
	100	3
	500	3
	1000	3
Triangle colben	5000	2
	3000	2
	1000	3
	500	8
	300	8
Reagent bottle (tinted)	500	15
	300	25
	100	25
	1000	10
(white)	500	15
	300	25
	100	25
	1000	10

Item	gatera antakan magalang dang panggang danggan pandan dipangkan panggan panggan panggan panggan panggan panggan	Quantity	,,
petridish (for culture)	(except D class)	150	
propping bottle	20 mg	3	
Suction bottle	500 աջ	2	
Spitz glass	15 ml	100	
rest tube (small)	≠1.5 mg	1500	
Test tube (8x15) (small)	+ 8 mf.	2500	
Test tube (8x15) (small) Test tube (medium)	¢30 mℓ	250	
Cover glass	18 x 18 mm	15	
Cover glass (for blood cell count)	24 x 22 num	50	
Objective glass	(100 pcs)	100	
Buchner funnel (130mm dia.)		1.	
Pestle	3	2	
Flushing bottle, 500ml(Polyethylen	2)	2	
	i		
Reagent			
Standard solution Hb		10	
Standard solution sugar 25 m2		5	
Standard solution protein 3 x 4		5	
Standard solution BUN 3 x 10		5	
Standard solution U-A 3 x 10		5	
Standard solution pure cholesterol		5	
3 x 10			
Na, K, C 100m		Each *3	
pil, 2 kinds	,	Each 2	
Blood sugar (OTB kit)	:	5 1	kits
Uric acid *	:		kits
BUN			kits
Amylase	:		kits
60T, GPT			kits
AL-P *			kits
LDE *			k <b>i</b> ts
Triglyceride *			kits
r-GIP *			kits
Cholesterol			kits
Anti-CRP serum			kits
MULETORI SULUM			

Item		Quantity
10YO filter paper No. 6		5 pcs
Sodium bicarbonate		250 g
Potassium cyanide		1.3 g
Potassium ferricyanide		13 g
Pooled serum		5 boxes
Ordinary agar medium	(except D class)	300g x 5
Heart infusion	11	300g x 3
Bile	rı	$10g \times 10$
Selenite	11	300g x 1
SS agar	11	240g x 1
Drigulski		$300g \times 1$
MacConkey	· ·	300g x L
TSI	п	$300g \times J$
LIM	п	60g x 1
SIM .	II.	$300 \mathrm{g/x}/\mathrm{J}$
Gelatine	H	$100g \times 3$
Vibrio agar	п	300g x 3
TCBS agar	<b>11</b>	300g x 3
Mannit table salt	H	300g x 1
Thiamartin	II .	1.00g x J
CW agar	11	300g x 3
Sedoxycholate	f f	300g x 1
3GLB	1	1
Sabraud	· ·	1.

		!	Ö	lass	Class Nospitals	teals.				D C	Class H	Hospitals	នៈដូន			_
	:					:		:								
Centrifuge	0	0	0	0	0	0	0	0	7	0	0	0	0	7	0	0
Drying oven	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Microscope (monocle)	0	0	0	0	-7	걲	0	0	ᅥ	0	0	0	7	0	0	0
scope (pl	0	0	0	뺌	0	0		: :								
Spectrophotometer	0	0	0	0	0	0	0	0	7	0	0	0	7	7	7	0
Flamie photometer	7	7	Ţ	H	H	T	7									

standard quantity when supplying the equipment. Hospitals with minus figures have either unused or newly procured equipment. The standard Note: Minus figure indicates that the quantity should be reduced from the quantity will be supplied to hospitals with 0.

1 term	Description	Q. E.y
Parkage type retrigerat-	1.5kw, 6.6m <sup>2</sup> , stainless steel exterior, prefabricated refrigerating room with air curtain, 3-stage shelf interior, ±1°C	0
Atomic absorption photo- merer	Wave length range 190 900mm, digital display, with accesaries. With lamp, and acetylene bombe	l (only for Medan)
Mountury refrigerator	For two bodies.	p+4
Autopsy table	With faucet, sink and dissecting stand.	0
Autopsy apparatus	Various types of scalpels and forceps, electric saw, striker, pincette, scissors, etc.	r-}

- Electrical Facilities and Workshop
- 1) Modified items
  - (3) Basic installation of generators is made in the following hospitals.
    - a) Gunung Wenang, Ujung Pandang, Medan (Two 175 KVA generators operating on a parallel, synchronizing basis)
    - b) Siantar (One 250 KVA generator)
       Watampone, Soppeng, Bantaeng, (Two 150 KVA generators operating alternately)
      - (a) and (b) are for emergency use, while (c) is for constant use.
  - (2) For the following hospitals basically, the installation of generators is cancelled and only the distribution boards are installed.
    - (a) 1. Other hospitals than those listed in (a), (b) and (c). Those are twelve hospitals except porsea hospital.
  - (3) As for the external wiring construction, the allowable range of wiring distance variation involved in a slight change, which has been specified to be within 30% of the distance presented in the drawing, is reduced to 10%. Therefore the Indonesian party is required to give priority to the positions presented in the drawing in deciding the cable, path, location of poles, load distribution and cost distribution.
  - (4) As for the workrooms, some items are cancelled and others added as described below.
    - 2) Woodworks No change is made.
    - 5) Machinery works

      The hoist is cancelled and coating tools (except the foundation process tool) are added.

- (c) Electric works
  Tools are limited to those used for stringing, and other tools and materials are cancelled.
- (5) Maintenance is limited to the hospitals where generators are installed.
- (6) As for the service cable wire distributed from the external cables and connected to the X-ray apparatus, only the materials are added.

The specifications are described in the following,

- a) Number of hospitals subject to change
   Nineteen hospitals except Porsea hospital
- b) Cable quality CV 600V four-core cable (in conformity with JIS 3605-75)
- c) Necessary cable length

  The cable length is enough for falling at the branch from the external stringing cable on the hearest poles f-XO and f-Xn, and for rising in the X-ray apparatus ward for supply to each section illustrated in the external wiring diagram. Thus the cable length exceeds the effective length shown in the appended table titled "lead-in wire of X-ray apparatus",
- d) Righest limit of size

  The cable size does not exceed 150 mm<sup>2</sup>, and if larger capacity is necessary, two or more cables are used.
- e) Selection of size

  The cable size is decided to coincide with that shown in the external wiring diagram.
- f) Terminal treating materials
  With an indoor cable and an outdoor cable forming a pair,
  materials are provided the number of pairs, according to
  the number of lead-in cables and their sizes. The number

of materials exceeds the number shown in the appended table titled "lead-in wire of X-ray apparatus".

g) Handling of terminal treatment materials
Basically, an illustrated instruction manual written both
in English and Indonesian will be presented.
However, if the construction coinsides with the external
wiring construction, technical instructions will be
involved in those given by the contractor of the external
wiring construction.

#### h) Comments on cable handling

- (I) When a cable is inserted in a guard conduit, the inner diameter of the conduit is twice the finished outer diameter of the cable.
- (II) The radius of curvature of the conduit is not less than seven times the finished outer diameter of the cable.
- (III) A guard conduit is attached to the cable falling from the pole, from the ground to the height of 2.5  $\ensuremath{\text{m}}$  .
- (IV) The cable is burried in the ground at the depth of 600 m or more, and a guard board is attached at the top of the laying, if a load may be applied.
- (V) When conduits etc. are made of metal, they are grounded using a grounding conductor with less than  $100\Omega$  resistance.

## 2) Cost for electric facilities and workshop

- Notes: \*1 through \*3 denote costs varied in the negotiation with the Indonesian government dated September 6 through 13, 1978.
  - \*1 Generators are changed to two 175 KVA generators adopting parallel, synchronizing, manual operating method.
  - \*2 Specifications for the workrooms, machines and electricity are changed.
  - \*3 Specifications for the lead-in cable of X-ray apparatus are added.

\*6 The cost is eliminated as the item is cancelled,

	The cost Is	e GT HUIL	ated as th	ie item is	cancelle	d.	
	A generator	Only a discribution	External wiring construction	Workshop	Maintenance	Lead-in Cable material for X-ray apparatus	Total
Guaung Wenung	*1 81,500	-	71,140	*2 14,700	5,500	1,465	174,305
londano	0	4,000	18,631	405	0	506	23,542
lotanobagu	0	4,000	12,883	405	0	219	17,507
orontalo	0	4,000	13,597	405	0	288	18,290
ir Kondags	0	3,400	12,875	405	0	442	17,122
Nub-Total	81,500	15,400	129,126	16,320	5,500	2,920	250,766
ivag pandang	*1 81,500		43,160	*2 14,700			145,881
atan pono	71,950		16,957	405	5,500	522	95,334
opping	71,950	-	15,363	405	5,500	619	93,837
atepare	0	4,000	20,362	405	Û	442	25, 209
Elt Ruaipao	0	3,700	15,014	405	0	391	19,510
ilogo 	0	3,700	13,648	405	0	333	18,086
ittaeng	71,950		12,909	405	5,500	288	91,052
ii-Tota!	297,350	11,400	137,413	17,130	22,000	3,616	488,909

	A generator	Only a distribution	External wiring construction	Workroom	Maintenance	Lead-in Cable material for X-ray	apparatus Total
yedan	*1 81,500		66,995	*2 14,700	5,500	*3 2,494	171,189
Tartung	0	4,000	27,968	405	0	1,614	33,987
Por sea	0	0	0	0	0	0	0
Sianter	53,950	••	32,186	405	5,500	1,329	93,370
j. Timggi	0	3,400	14,891	405	0	99	18,795
narjun Bali	0	3,400	12,631	405	0	291	16,727
Kisaran	0	4,000	17,523	405	0	246	22,174
Rantan Prapat	0	3,700	17,726	405	0	391	22,222
Sub-total	135,450	18,500	189,920	17,130	11,000	6,664	378,464
Total	514,300	45,300	456,459	*2 50,580	38,500	*3 13,000 1,	

Sopping	Watam pane	Ujung Pendag	Limkendage	Gorontalo	Kotamobaju	Tondano	Gunung Wenang	
Sales Company of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of t			0	٥	o	٥		Cancellation of generator installation
			0	٥	٥	٥		Installation of distri- bution board alone
A Commence of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con	0	٥	٥	0	0	o	٥	Reduction of surplus in the main cable wiring distance
O O	٥	•	٥	٥	o	0	0	Change of workroom tool speci- fication
O Carlos de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la company de la c			¢	<b>•</b>	٥	٥		Cancellation of inspection and mainte- nance works
		٥					O	Change of number and capacity of generators
O Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the Common of the	0	۰	٥	0	٥	0	o	Addition of lead-in cable of X-ray apparatus
								Remarks

Note: "Cancellation" herein means cancellation in this phase due to a budgetary deficit, on the assumption that it will be carried in and installed in the future if the lectric power supply is not improved in quantity till in the future.

en see see see see see see see see see s	Sianter	Porsea	Tantung	Medan	Bantaeng	Palopo	Elim Rantpao	Pare Pare	
c		Suspen- sion	0				0	0	Cancellation of generator installation
6		7	0			0	0	•	Installation of distri-bution board alone
0	•	3	0	•	•	0	0	•	Reduction of surplus in the main cable wiring distance
>	0	7	O	•		0	0	0	Change of workroom tool speci- fication
٥	:	4	0			0	•	0	Cancellation of inspection and mainte-nance works
		=		٥	**************************************				Change of number and capacity of generators
C	0	=	0	•	0	0	0	0	Addition of lead-in cable of X-ray apparatus
		Electric power supply from Asahan should be examined.	3			PLN should be improved not to stop in the daytime	in the daytime		Remarks

			1
Rantanprofit	Kisaran	Tunjun Bali	
0	0	٥	Cancellation of generator installation
0	0	0	installation of distri- bution board alone
0	O	o	Reduction of surplus in the main cable wiring distance
0	0	0	Change of workroom tool specification
•	0	0	Cancellation of inspection and mainte- nance works
			Change of number and capacity of generators
0	٥	•	Addition of lead-in cable of X-ray apparatus
PLN is connected to the power distributing cable after it is completed.			Remarks

special Specification of Independent power plant facilities works

# Special Specifications of Independent Power Plant Facilities Works

i. RS Gooing Werang

# Matters to Apply

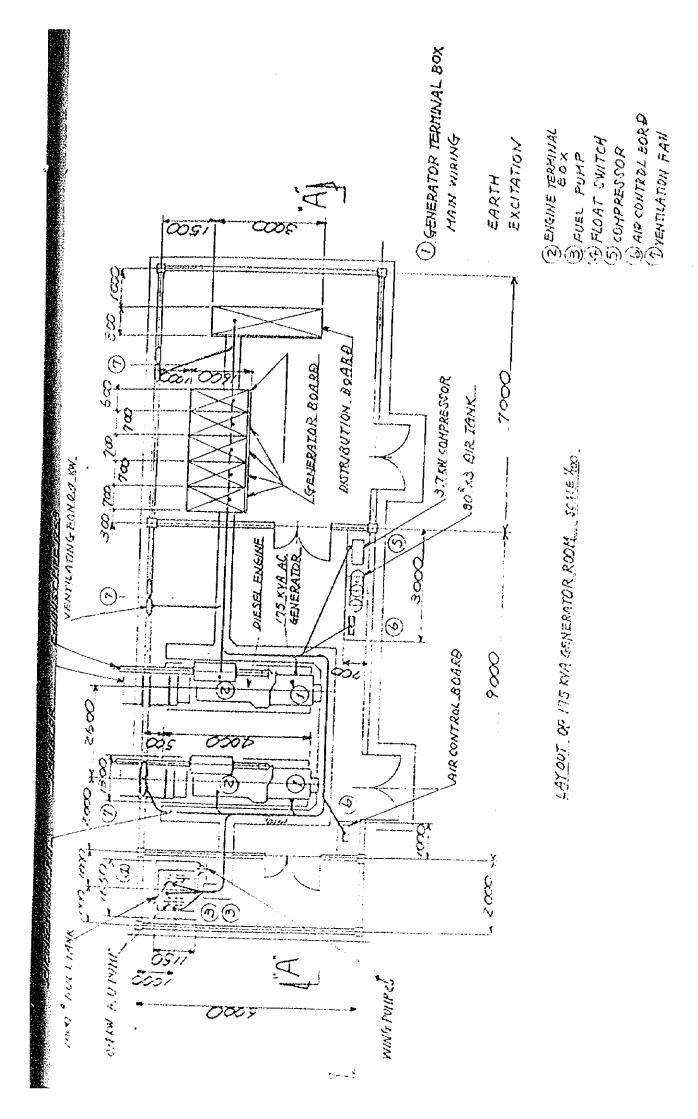
Matters which are not mentioned in this specifications and drawing should be according to the common specifications of Independent Power Plant Facilities Works.

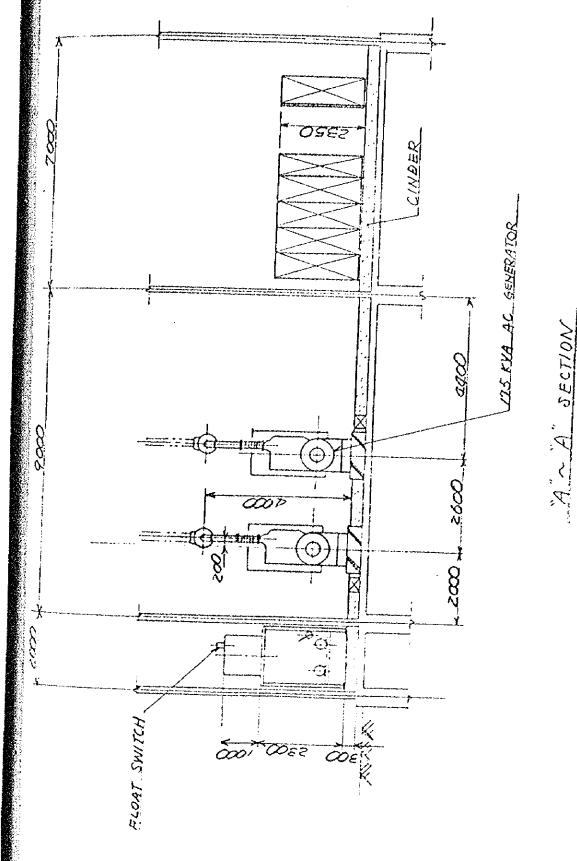
3. Specifications of Independent Power Plant Facilities

Parallel Operation of Synchronism Indicator

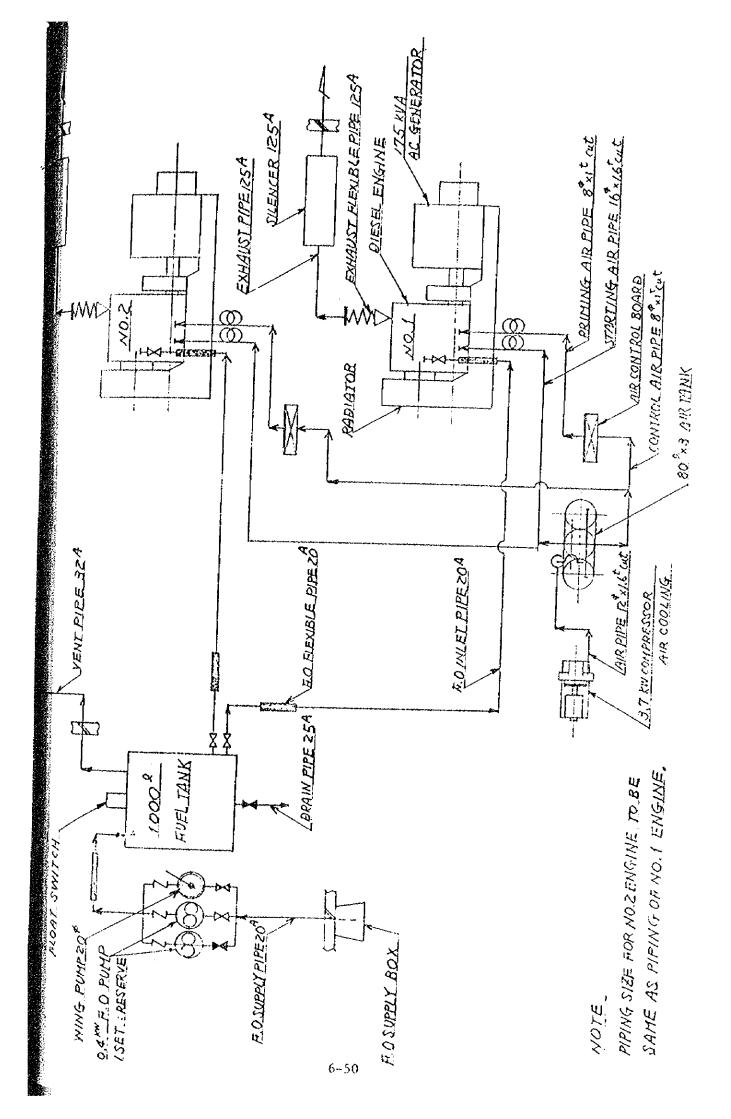
	Туре	Norizontal Synchronous AC Generator
	Rated Output	175 KVA × 2
	Rated Voltage	127/220 V and 220/380V
AC Generator	Number of phase and frequency	3-phase 4-line system 50Hz
	R. P. M.	Below 1500 r.p.m.
	Power-factor	Above 80%
	Class of Insulation	Above Kind B
	Rated Time	Continuous Rating
	Starting Time	Within 40 seconds
	Excitation System	Brushless System
	Туре	Single-acting 4-cycle diesel Engine
	Rated Output	225 HP x 2

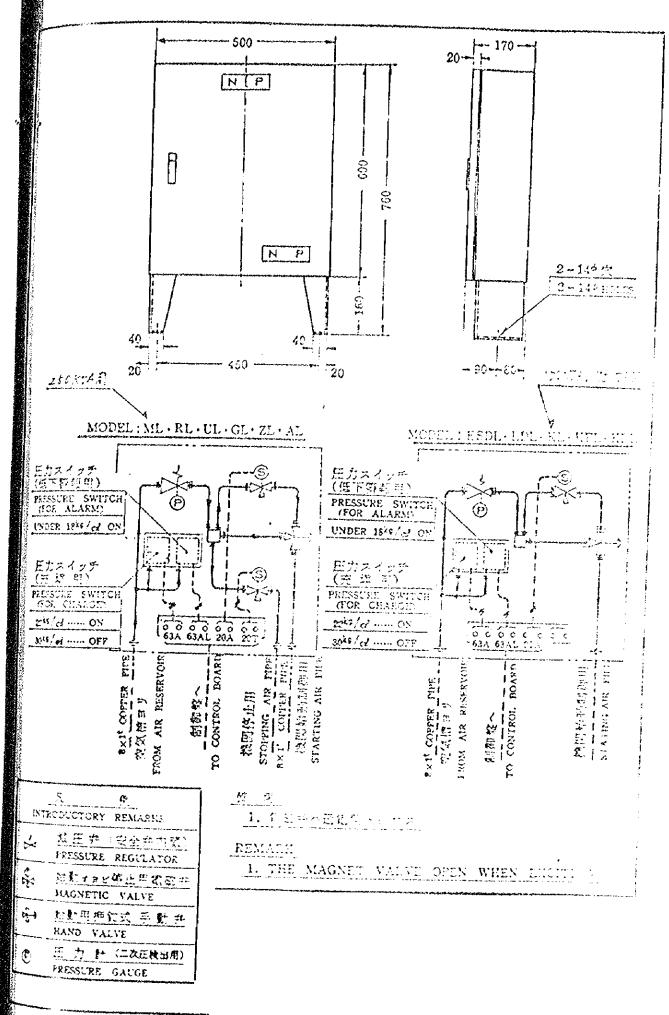
	وساور واستراجه والروادية والمراودين والمستراة المستودية والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود والمراود و	
	Starting Time	Within 40 seconds
p <sub>rime</sub> mover	Starting System	Pneumatic System
The second second	R. P. M.	Below 1500 r.p.m.
No. West War and The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	Rated Time	More than 72 hours
of the second	Cooling system	Engine driven
	Air Compressor	3=phase 220/380V 3.7KW
	Air Tank	150 1, with pressure switch
	Inflation Tank	100 1.
	Kind	A Heavy Oil
Fuel	Fuel Tank	1000 1.
energy control	Fuel Pump	3-phase 220/380V 0.4KW
Type of	Board	Closed type
Control	System	Hand Push Button System
Elevatio	n	150 m
Heat Ins	ulation Plate	Ceiling and Wall of Gne Generator Room
Ventilat	ing Fan	3-phase 220/380V 0.75 with automatic shutter
\$ynchronism System	Type	Manual operation
40-50		

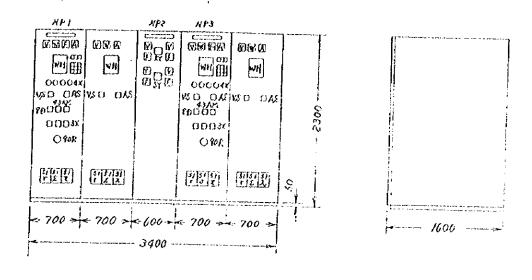




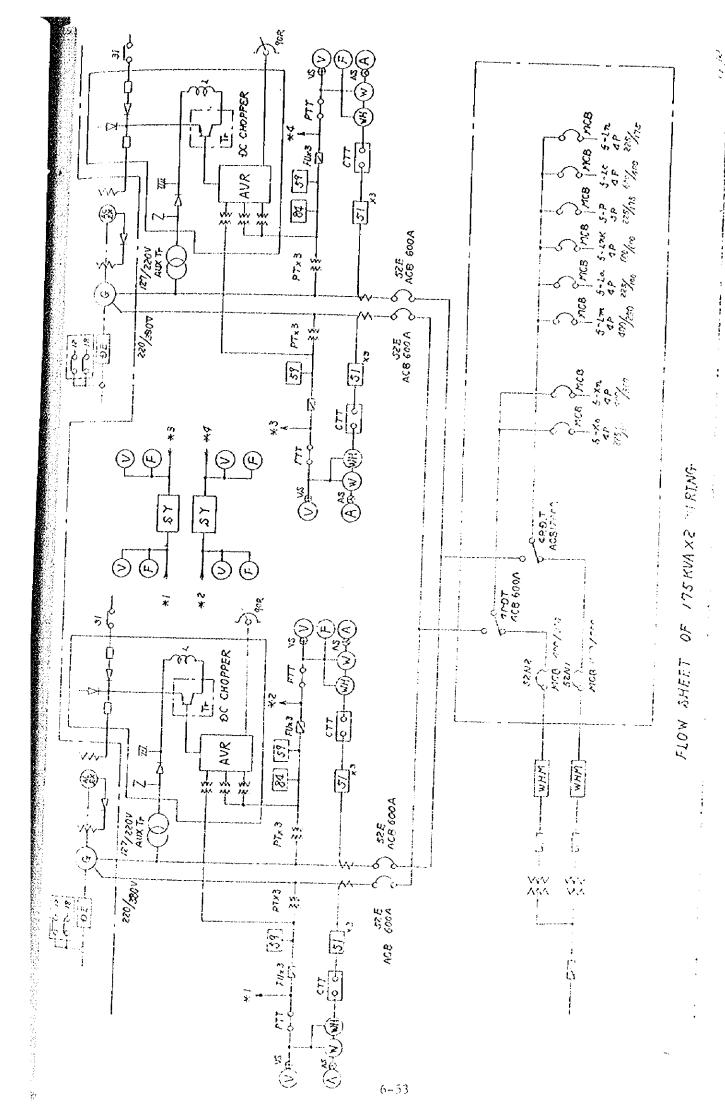
6-49







Symbol	Description
NP 1	Name plate 1 "No. 1 generator Panel.
NP 2	" 2 Synctronizing Famel s
NP 3	" 3 'No.2 Generator Panel.
Α	AC ammeter
W	Indicating watt meter
F	Grequency meter
V	AC voltmeter
WH	Electric Energy Meter
93 AM	Control Switch ( automatic - Manual )
G 3	" (Control Power Source)
90 R	Voltage adjuit
ilr (s.t)	Overcurrent Kolny
₹€	Paul, Britton Switch (Lamp Feet)
дх	" (Trouble Peturn)
3×	" (alam stop)
7.Y	Lynchronizing Meter



# Special Specifications of Independent

#### Power Plant Facilities Works

#### 1. RS Ujung Pandang

# 2. Entters to Apply

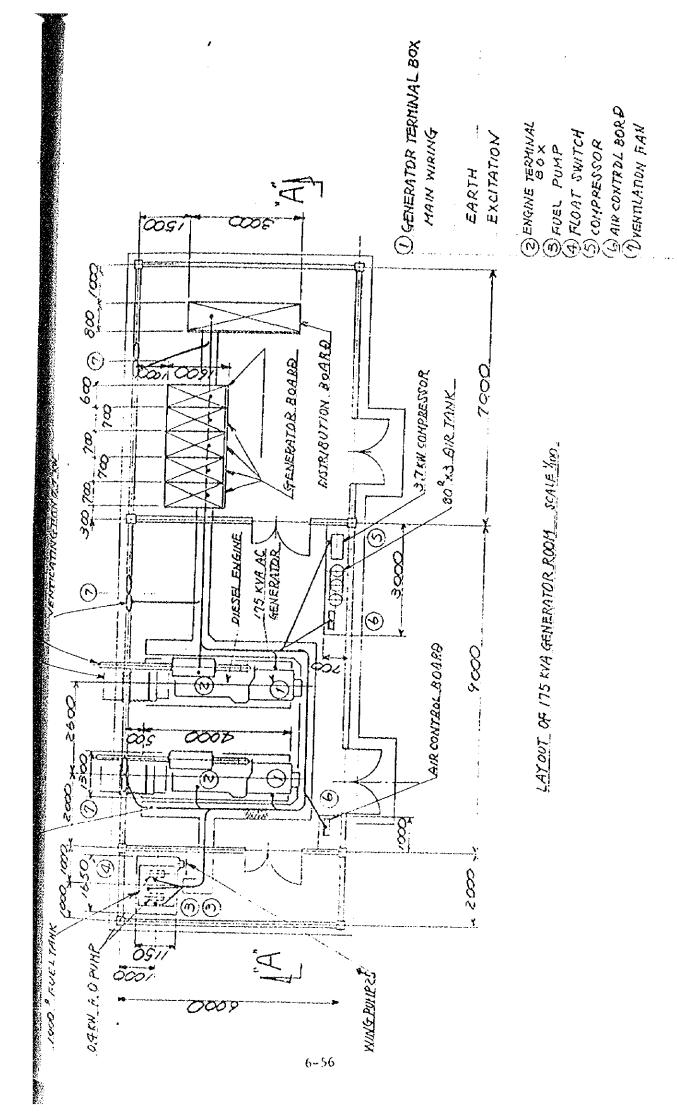
Matters which are not mentioned in this specifications and drawing should be according to the common specifications of Independent Power Plant Facilities Works.

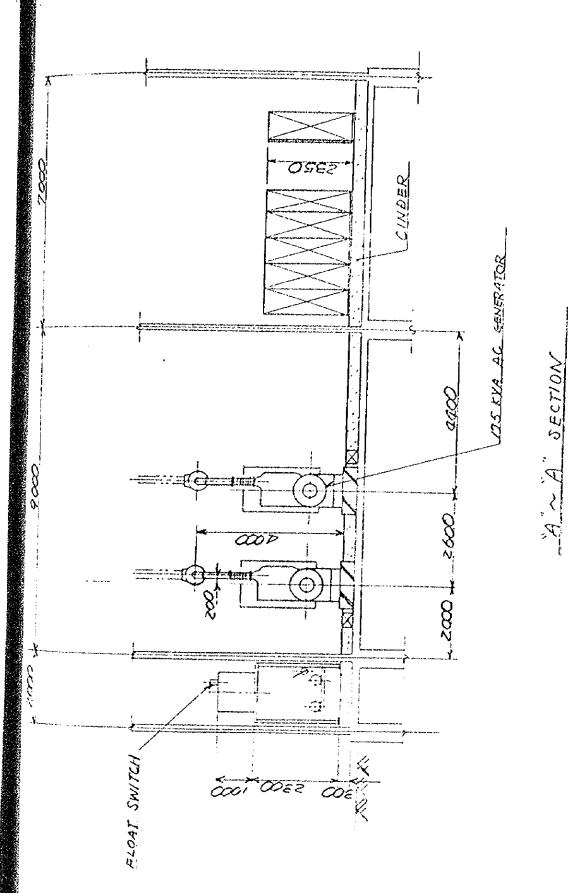
### 3. Specifications of Independent Power Plant Facilities

Parallel Operation of Synchronism Indicator

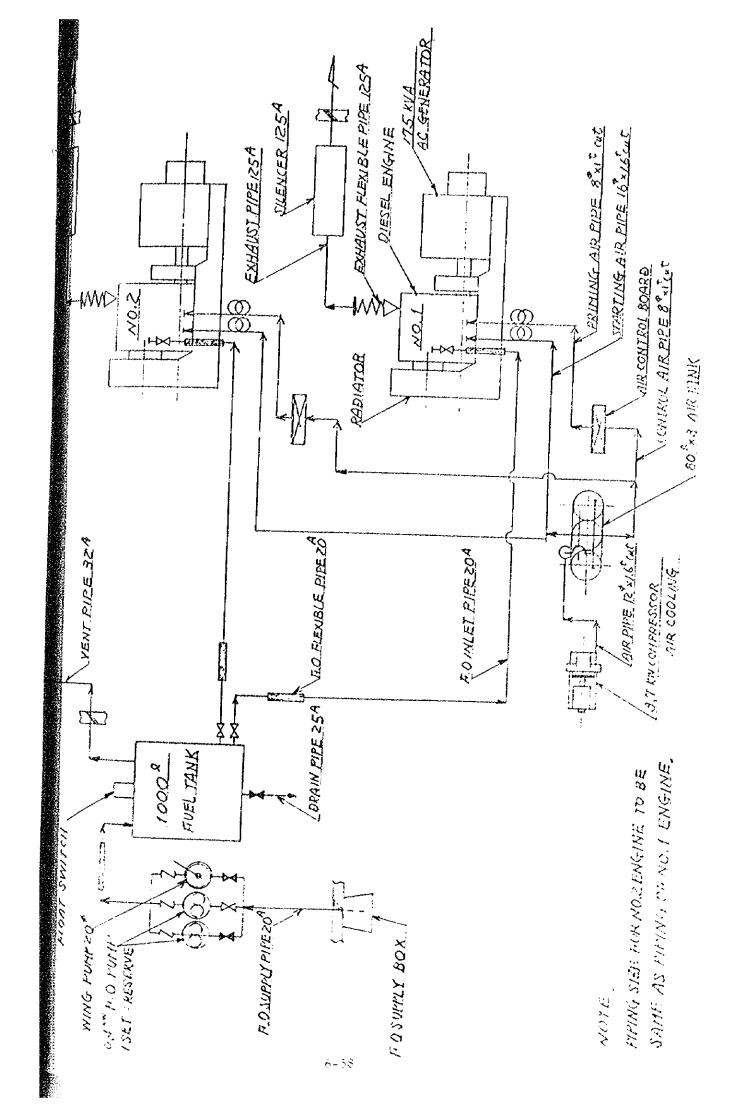
·	<del></del>	
	Type	Horizontal Synchronous AC Generator
AC Generator	Rated Output	175 KVA x 2
	Rated Voltage	127/220 V and 220/380V
	Number of phase and frequency	3-phase 4-line system 50Hz
	R. P. M.	Below 1500 r.p.m.
	Power-factor	Above 80%
	Class of Insulation	Above Kind B
	Rated Time	Continuous Rating
	Starting Time	Within 40 seconds
	Excitation System	Brushless System
	Туре	Single-acting 4-cycle Diesel Engine
	Rated Output	225 HP x2

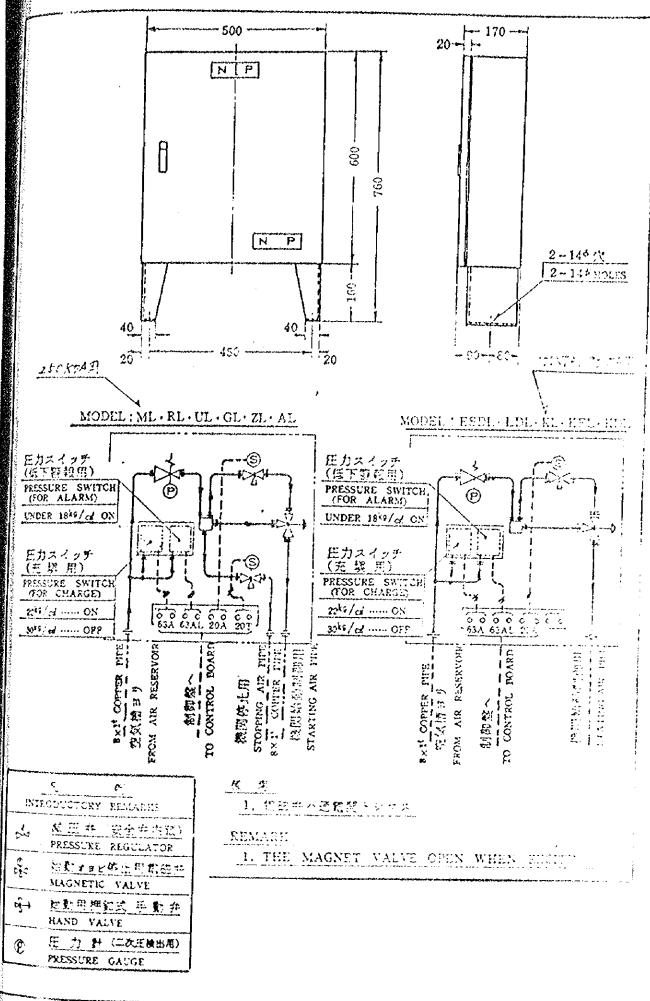
Prime mover	Starting Time	Within 40 seconds
	Starting System	Pneumatic System
	R. P. M.	Below 1500 r.p.m.
	Rated Time	More than 72 hours
{   	Cooling system	Engine driven
	Air Compressor	3-phase 220/380V 3.7KV
	Air Tank	150 1. with pressure switch
	Inflation Tank	100 1.
	Kind	A Heavy Oil
Fue1	Fuel Tank	1000 3.
	Fuel Pump	3-phase 220/380V 0.4KW
Type of 1	Board	Closed type
Control S	System	Hand Push Button System
Elevation		150 m
Heat Insulation Plate		Ceiling and Wall of Generator Room
Ventilating Fan		3-phase 220/380V 0.75 with automatic shutter bood
Synchronism System	Туре	Manual operation

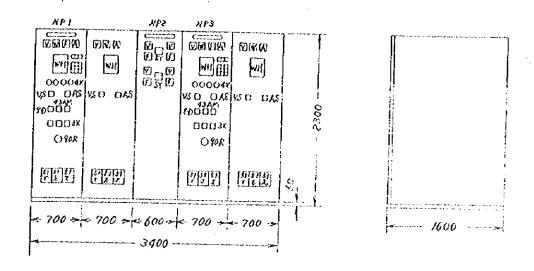




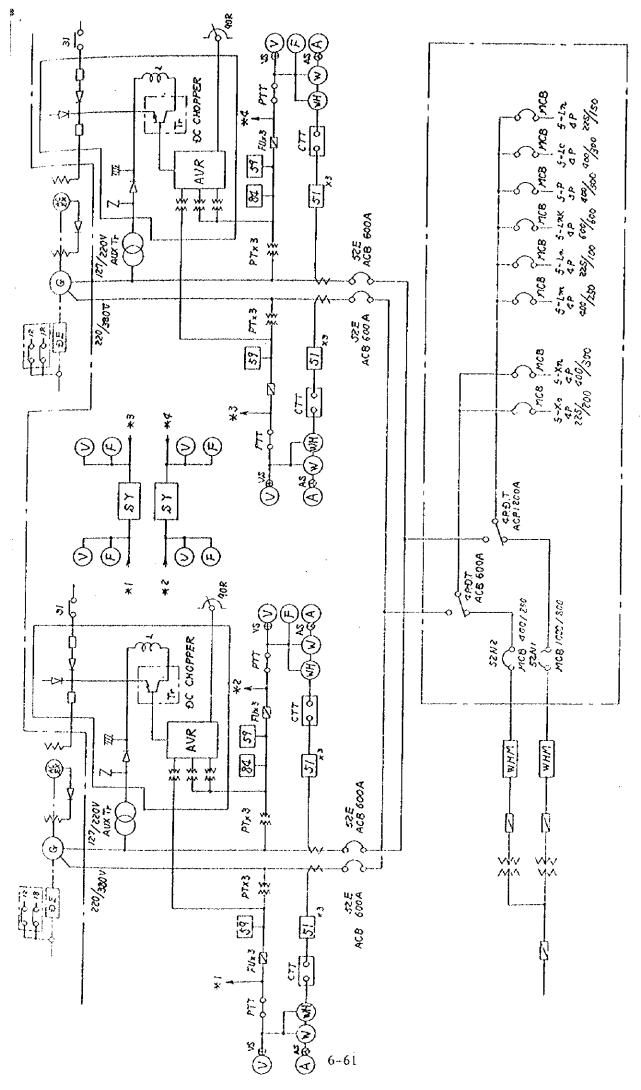
6-37







Symbol	Description
NP I	Name plate 1 'no 1 generator Panel,
SAN	" 2 Lynchronizing Famil >
NP 3	" 3 No.2 Generator Panels
Α	AC ammeter
W	Indicating walt meter
F	Greguency meter
V	AC voltmeter
WH	Electric Enorgy Meter
93 AM	Control Switch ( automatic - Manual )
ઉઉ	" (Control Forer Source)
90 R	Voltage adjuit
Strasto	Oversurant Rolay
ŠΧ	Paul Button Switch (Lange Feet )
Э×	" (Trouble Return)
3×	" (alarn Stop.)
ΔY	Lynchronizing meter



FLOW SHEET OF 175 KVAXZ WIRING

## Special Specifications of Independent

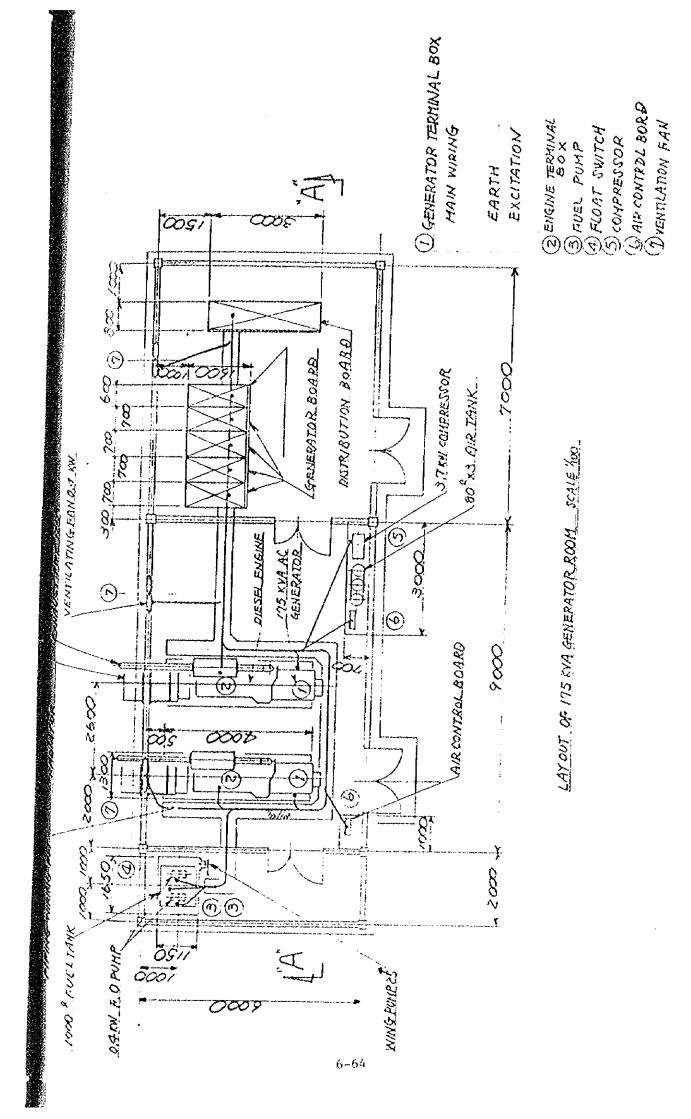
### , Power Plant Facilities Works

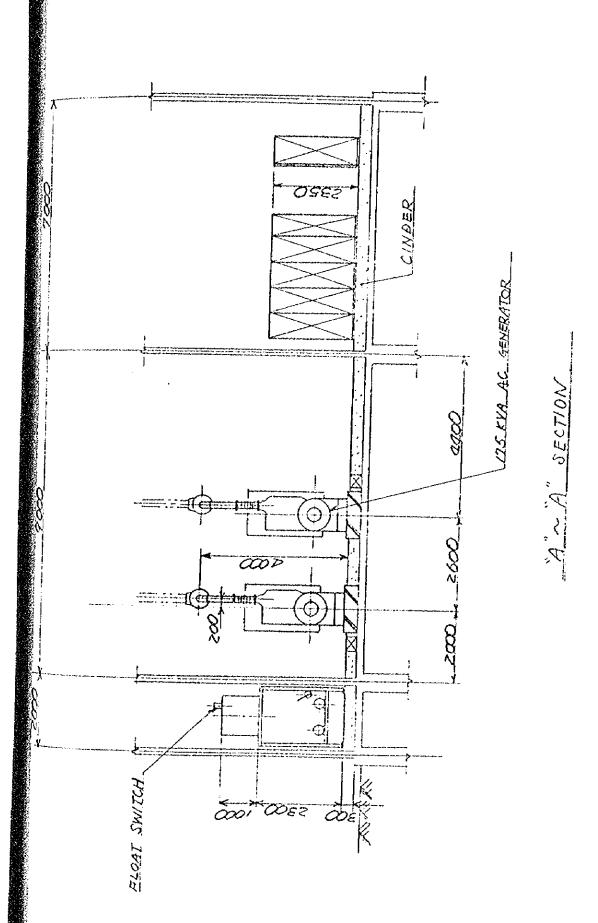
- ). En Medan
- for their to Apply
  - titers which are not mentioned in this specifications and drawing should
  - i. according to the common specifications of independent Fower Flash
  - E. Hillises Works.
- 1. Precitications of Independent Power Plant Facilities

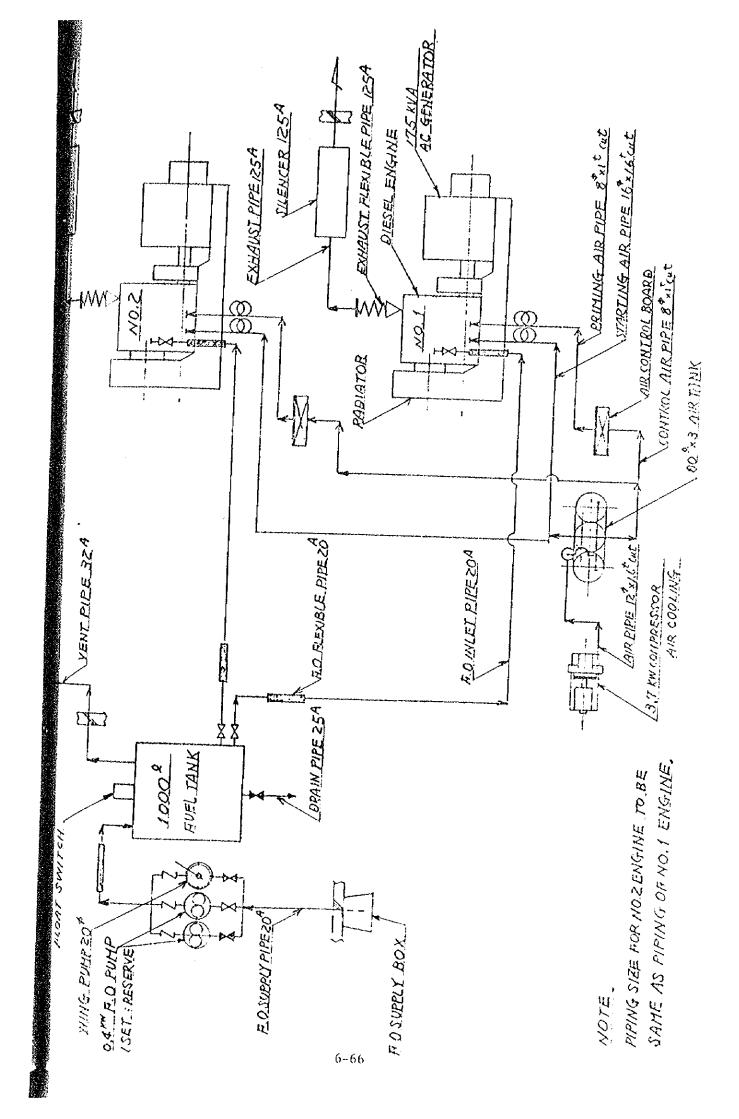
Parallel Operation of Synchronism includion

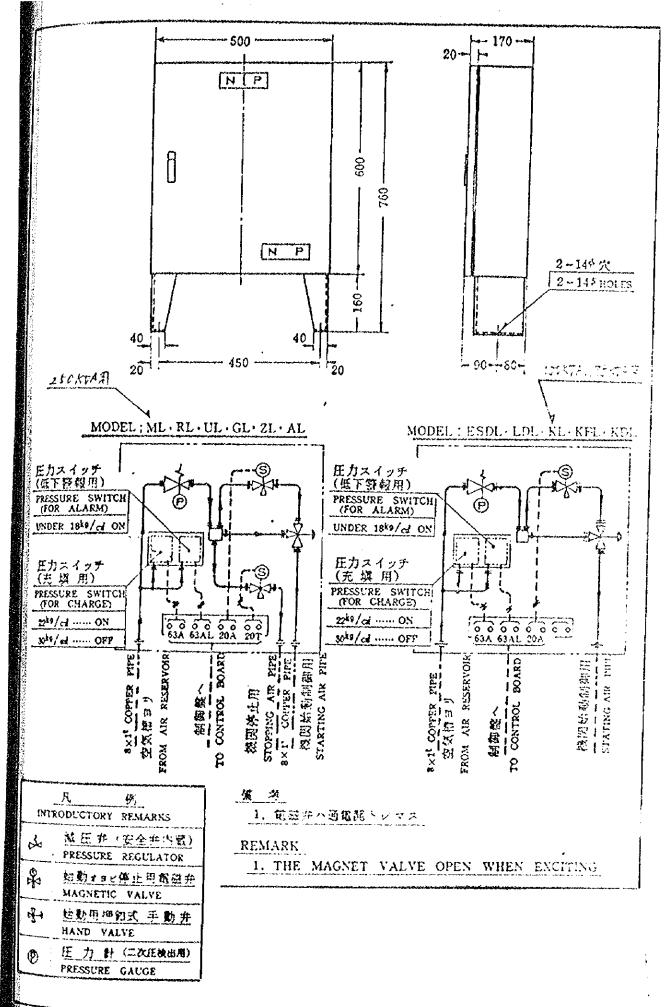
	g to the common specific	this specifications and drawing si ations of independent Fower Franc
], frecitic <b>st)(</b>	ons of Independent Power Parallel Operation of S	
	Турс	Horizontal by include. AC Senerator
AC Generator	Rated Output	1.75 RW. x 2
	kateć Voltage	127/220 V and 3200 Sage
	Number of phase and frequency	p Smplisse wheater system 5000
		De Bew (150), Pupuli
	Power-facte:	•
	Class of Insulation	
	Kated Time	Continuous kariny
	Starting Time	
	banitation byste.	for a form of a single
	i vy.	Carrier and Survey of Special Programs (1987)
•	- Kutee Ontper	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o

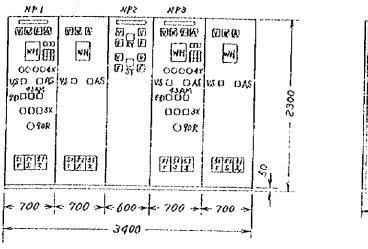
	Starting Time	Within 40 seconds
Frime mover	Starting System	Pucumat Ic System
	R. P. M.	Below 1500 r.p.m.
	Rated Time	More than 72 hours
	Cooling system	Engine delven
	Air Compressor	3-phase 220/380V 3.7FW
	Air Tank	150 L. with pressure switch
	Inflation Tank	100 1.
1061	Kind	A Heavy Off
	Fuel Tank	1000-1,
	Fuel Pump	3~phase 220/3800 0,4%2
Type of Board		Closed type
Control System		Hand Poor Survey Ayares
Elevation		156 %
deat Insulation Plate		Cession and Vest of Generally Point
recullating Fan		3-phase 220/3807 0.75 With automatic another book
lotten len	Type	Machal oberation





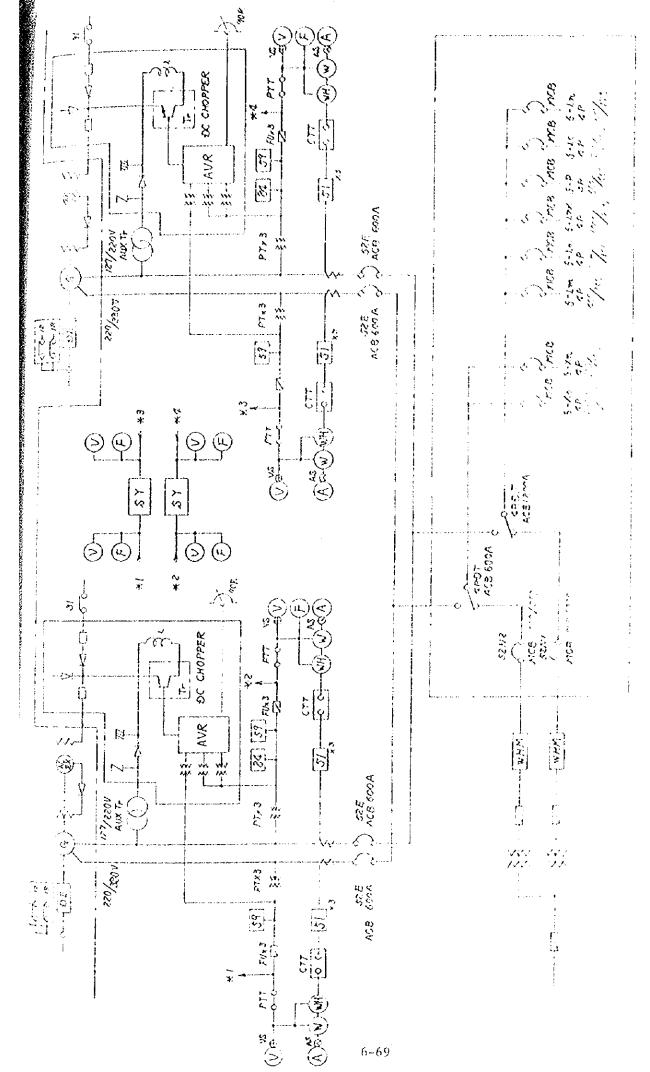




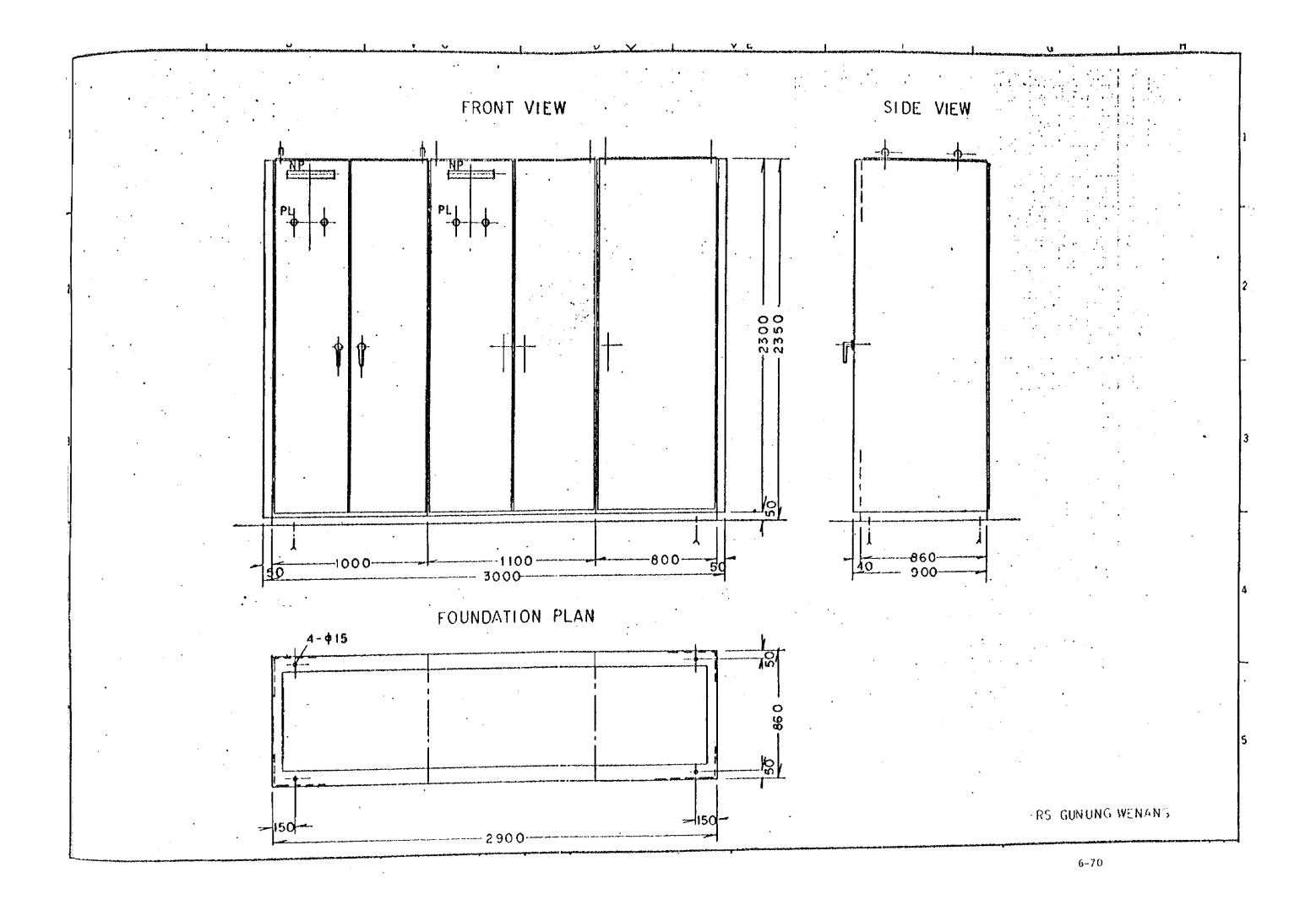


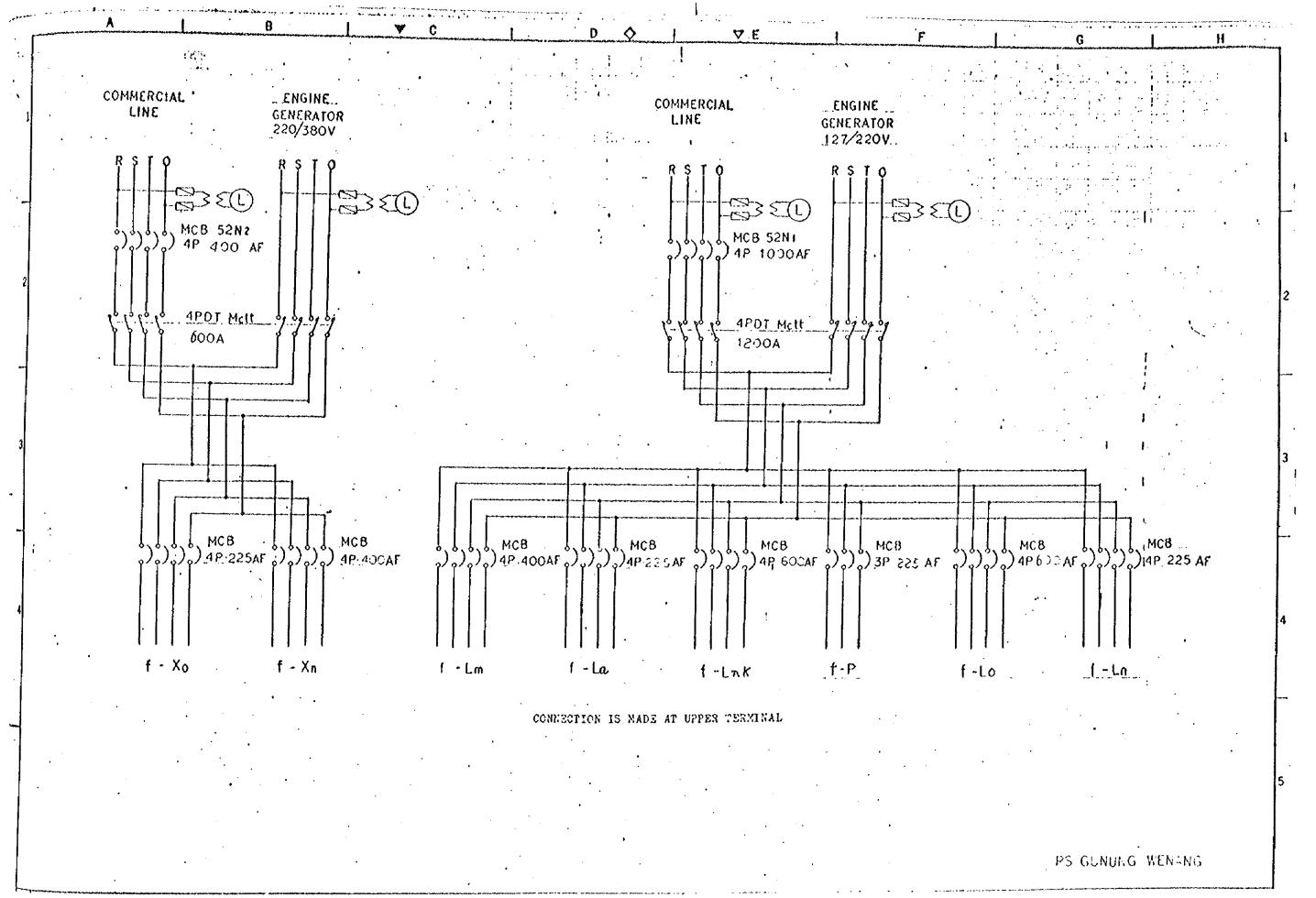


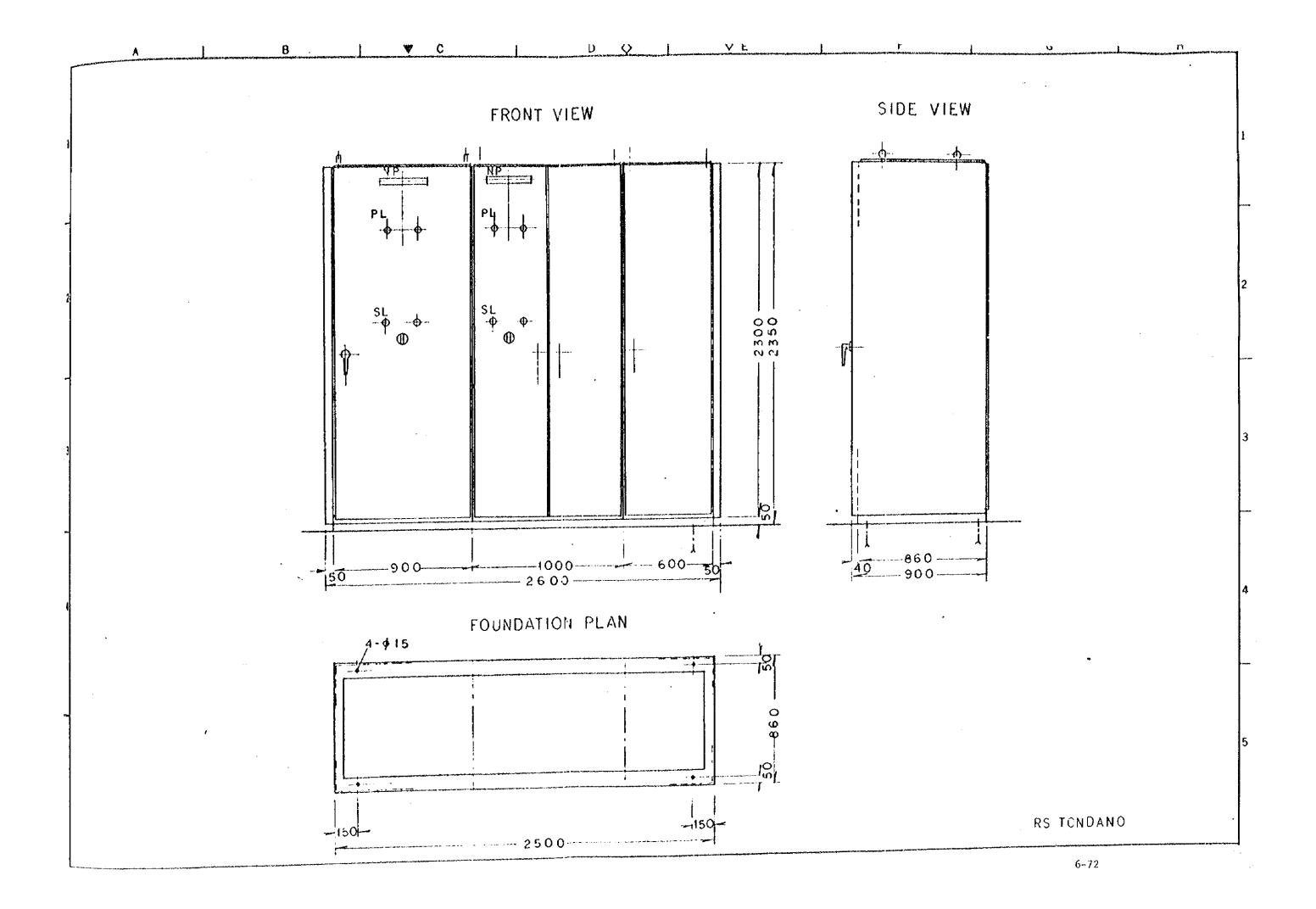
Symbol	Description
NP I	Name plate 1 " no. 1 Generator Panel ,
SAN	" 2 synchronizing Panel s
NP 3	" 3 "No.2 Generator Panel"
A	AC ammoter
W	Indicating watt meter
F	Frequency meter
V	AC voltmeter
WH	Electric Enorgy Meter
Q3 AM	Control Luitch ( automatic - manual )
G 3	" (Control Power Source)
90 R	Voltage adjust
51r(s.t)	Oversavient Rolly
XΕ	Pruch Button Switch (Lamp Feet)
ЭХ	" (Frontle Return)
3X	" (alarm Stope)
SY	Lynchronizing Meter

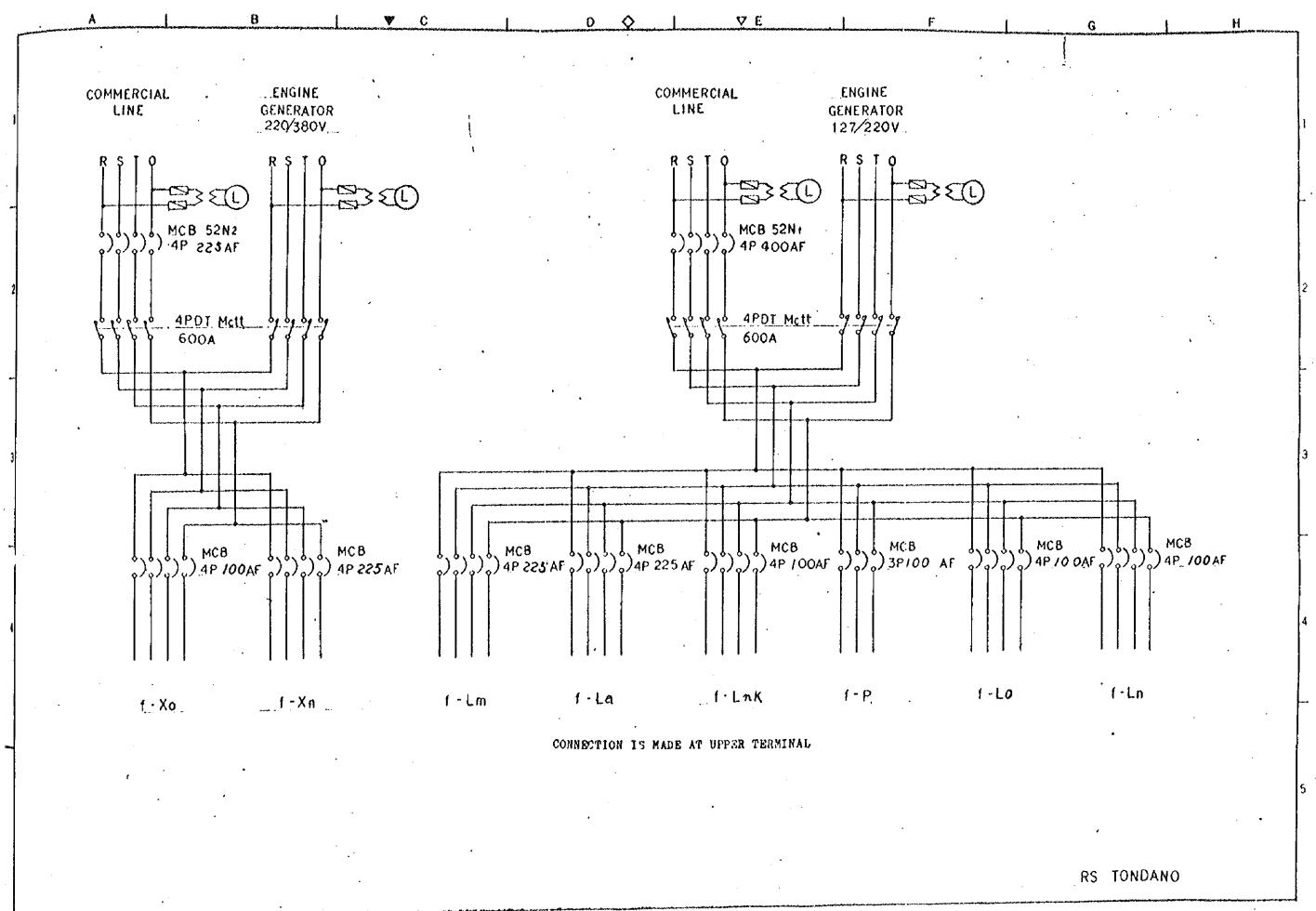


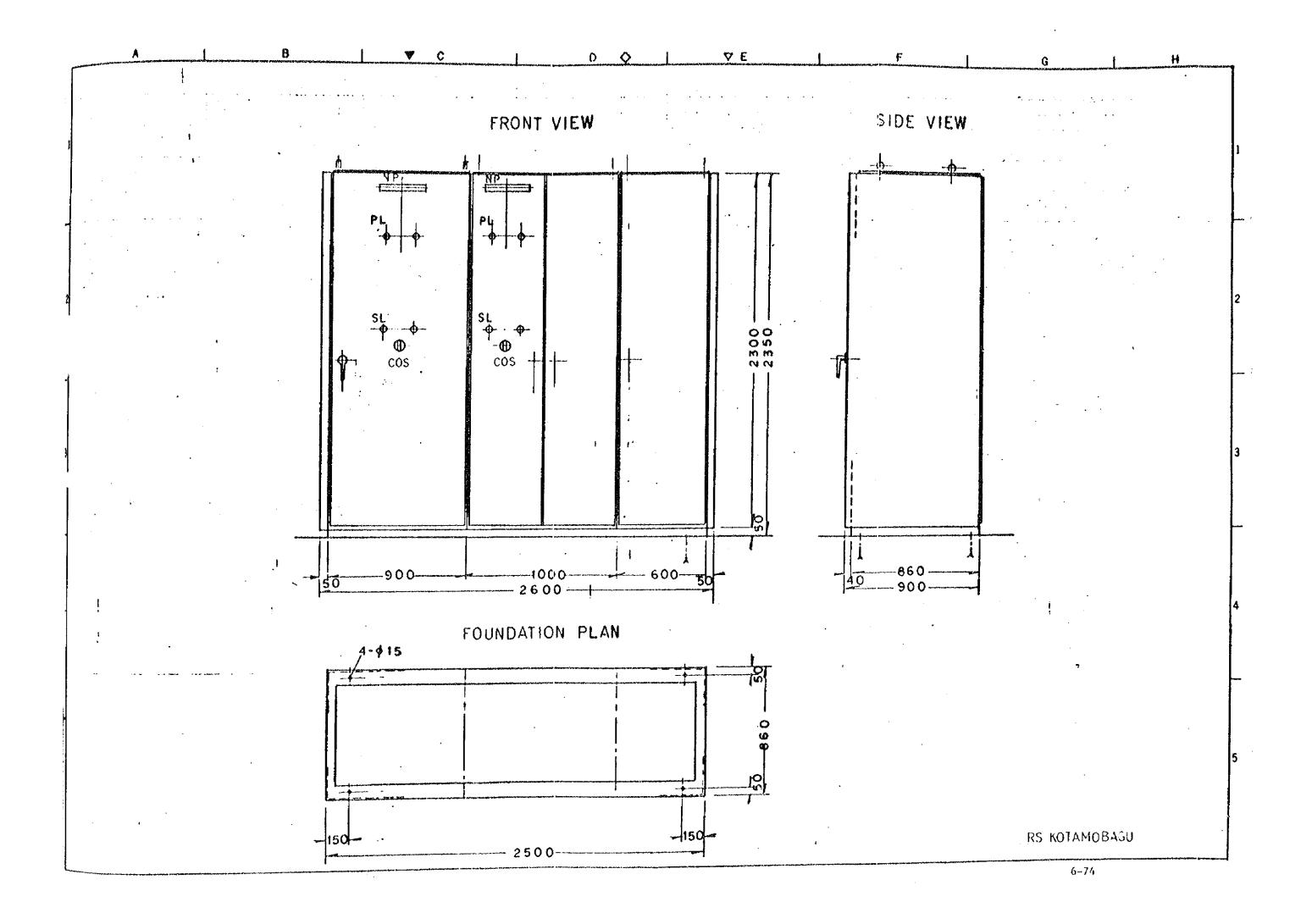
FLOW AREET OF 175 KRXXV - 1818-9

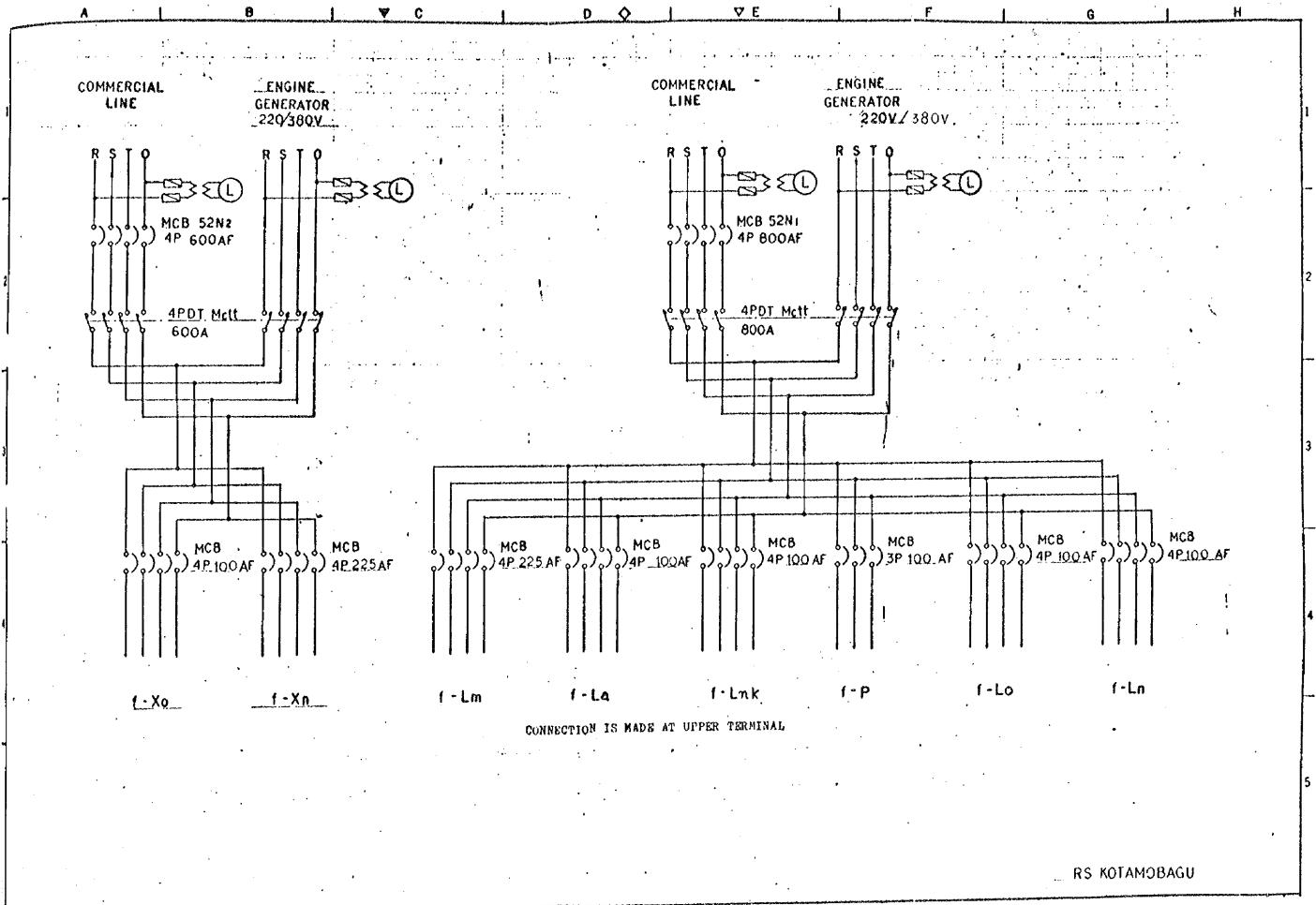


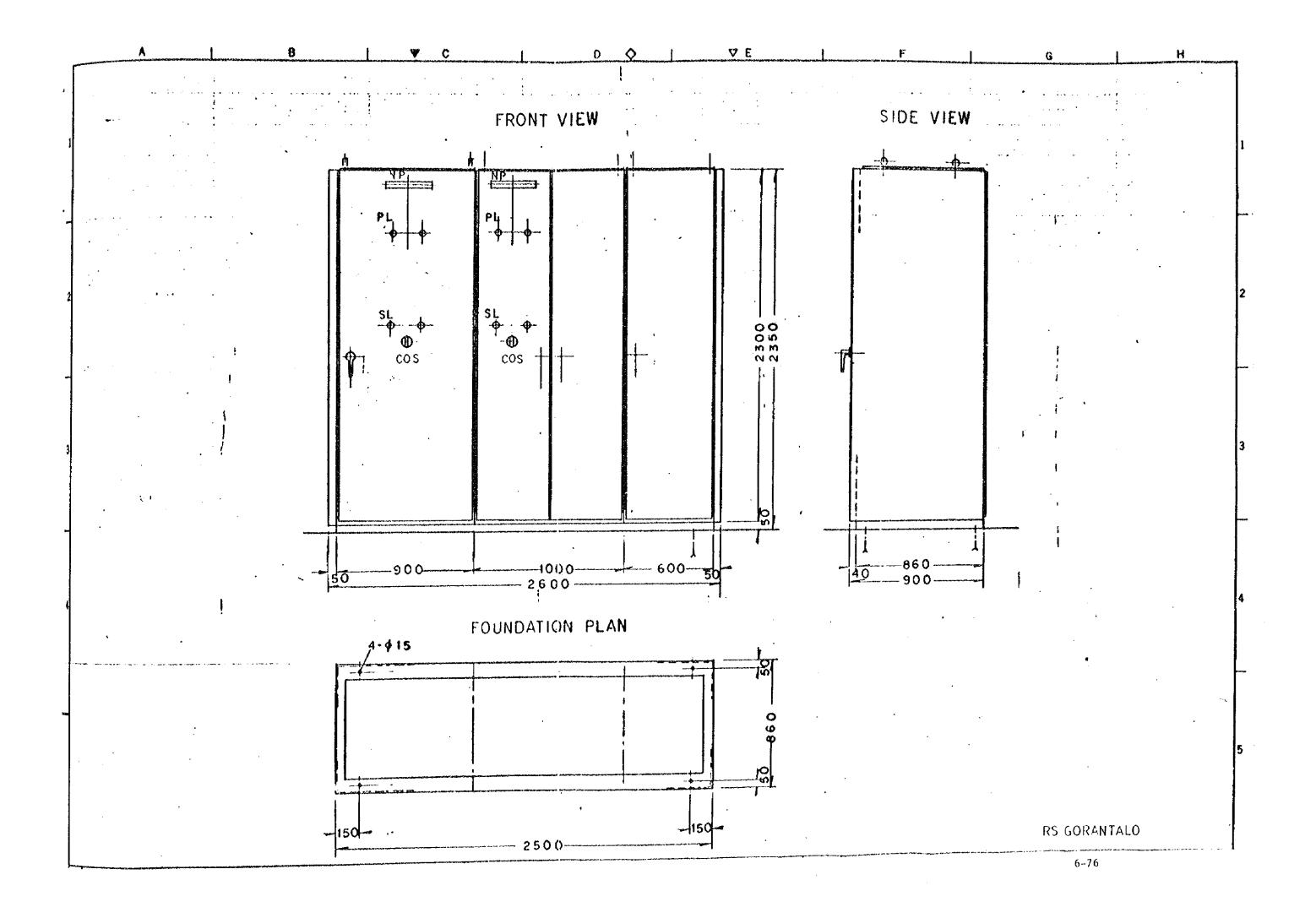


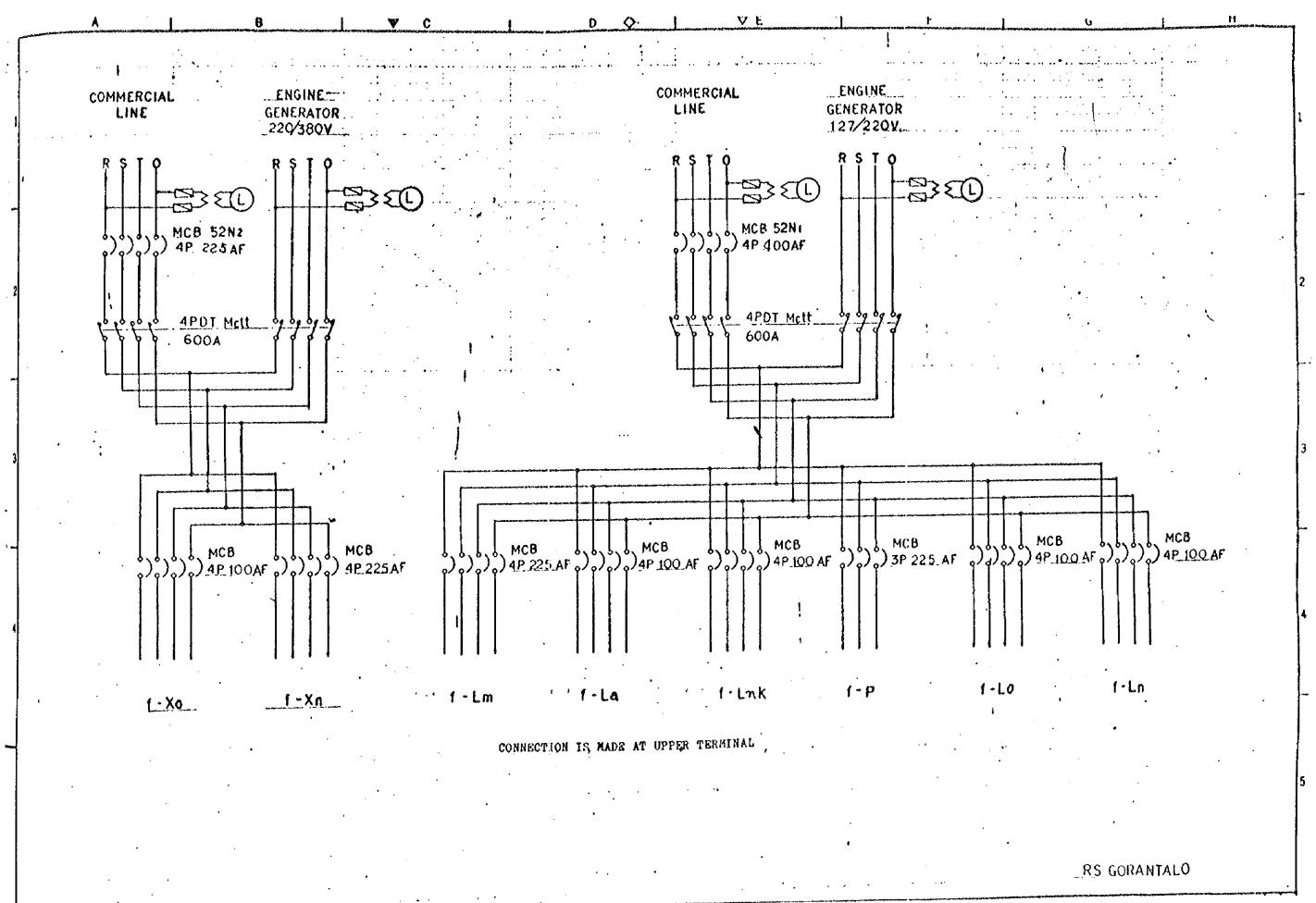


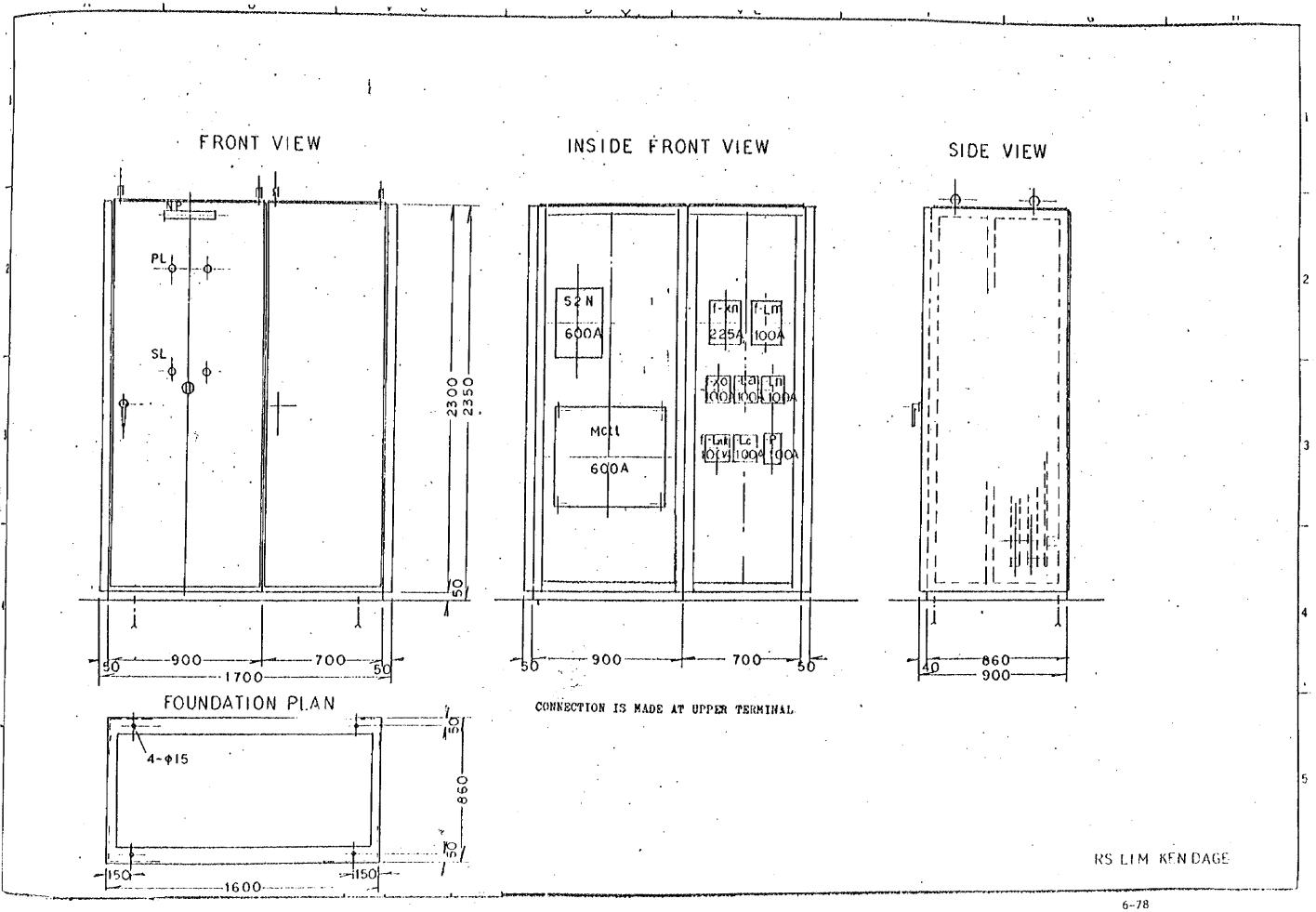


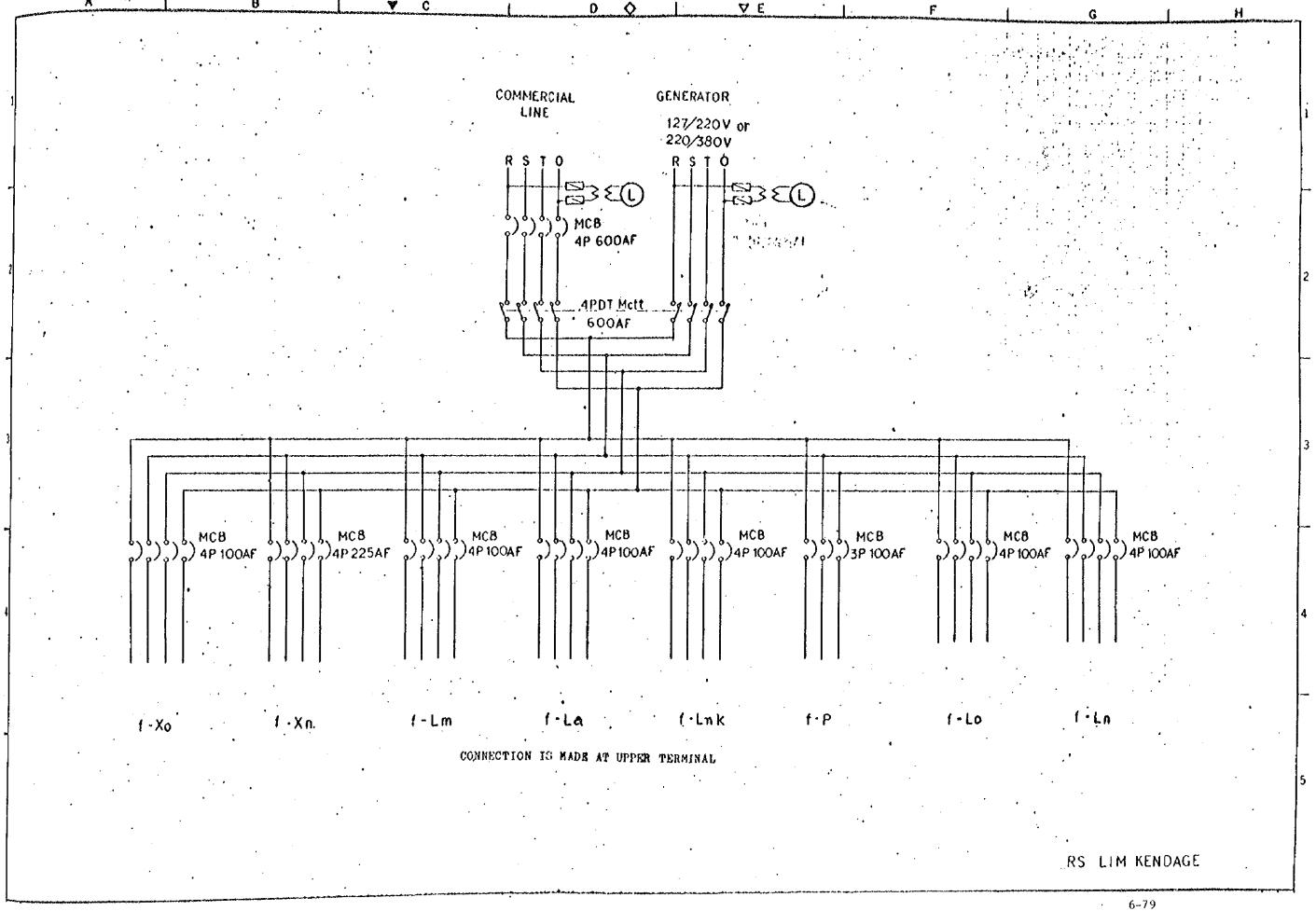


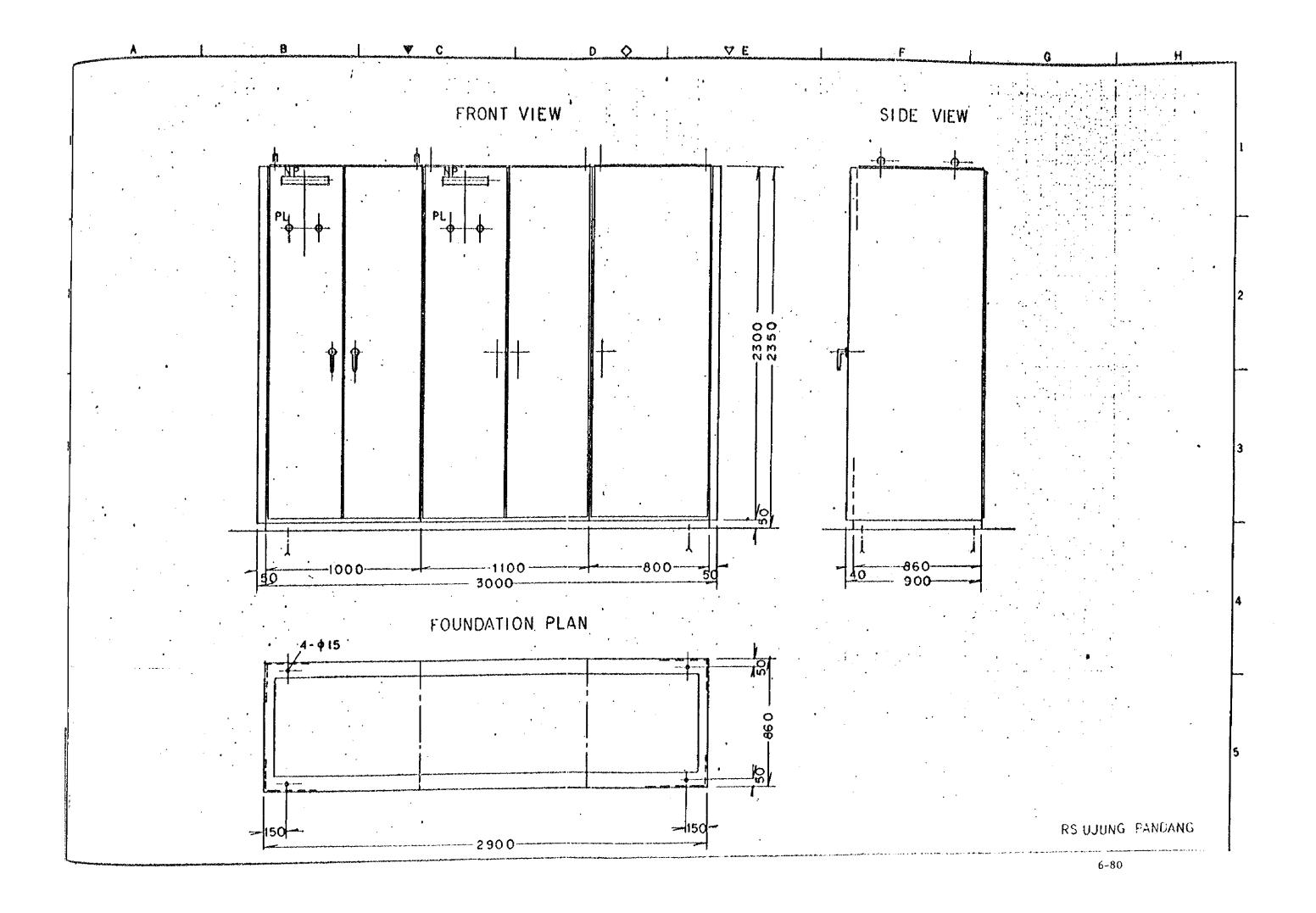


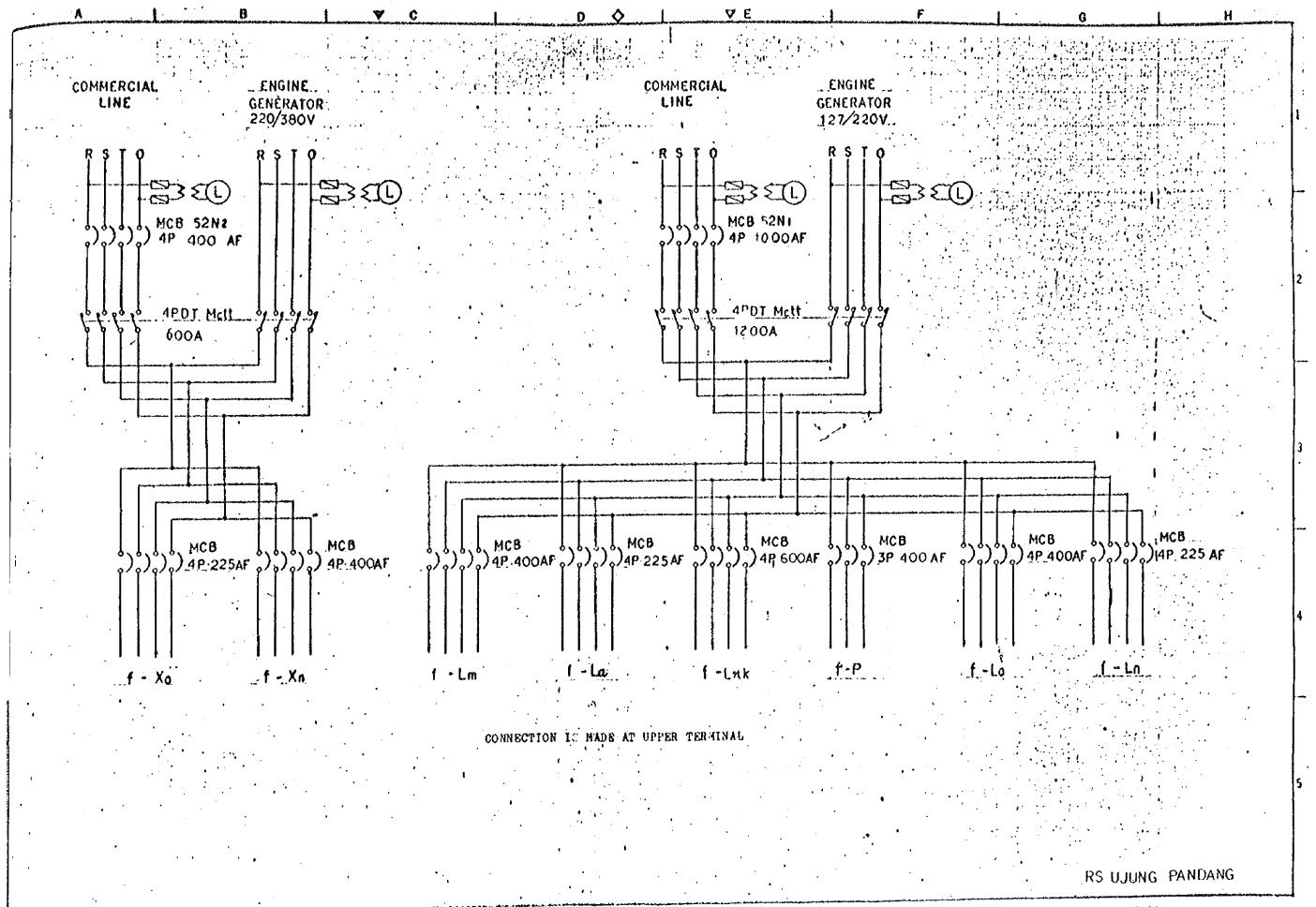


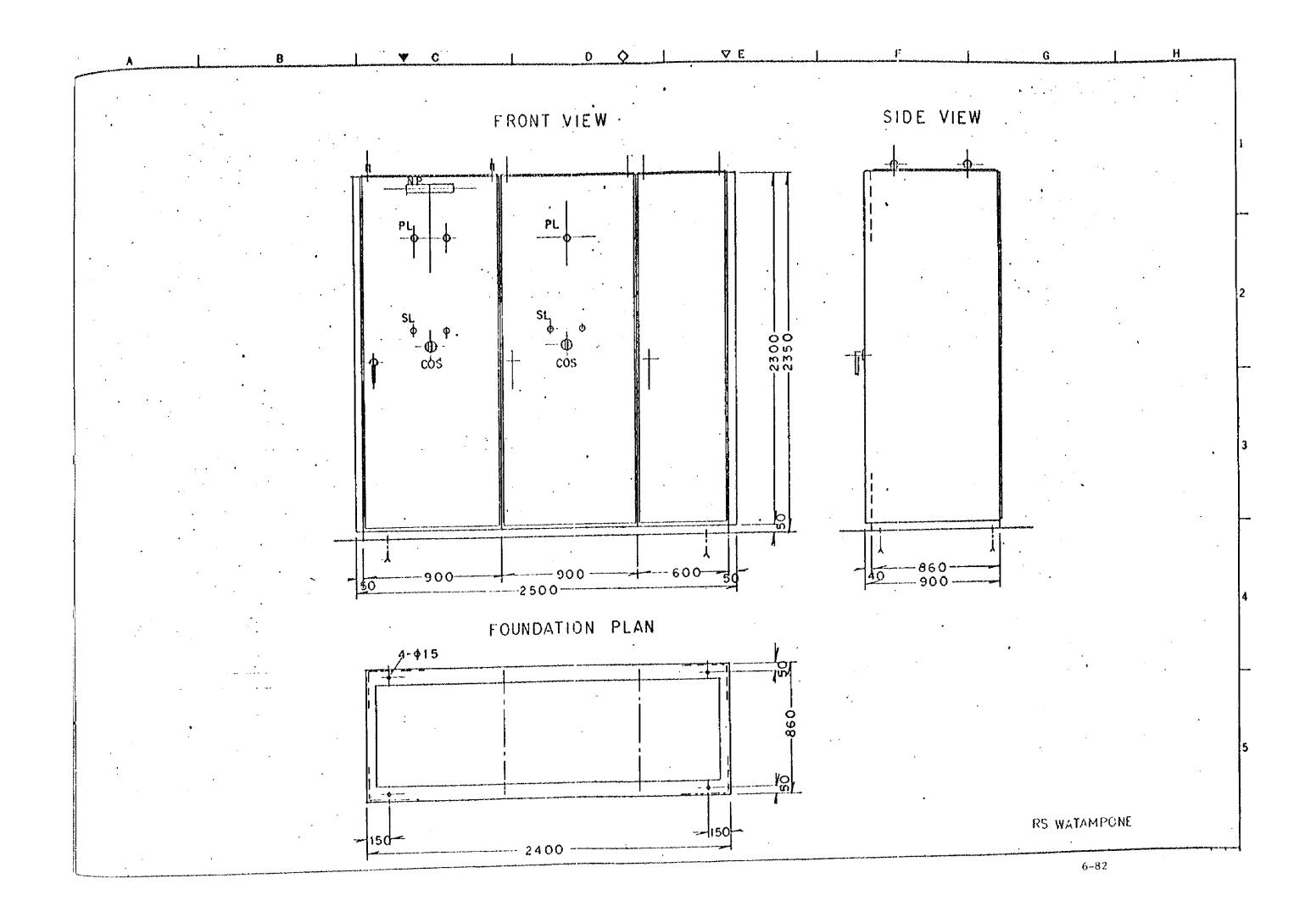


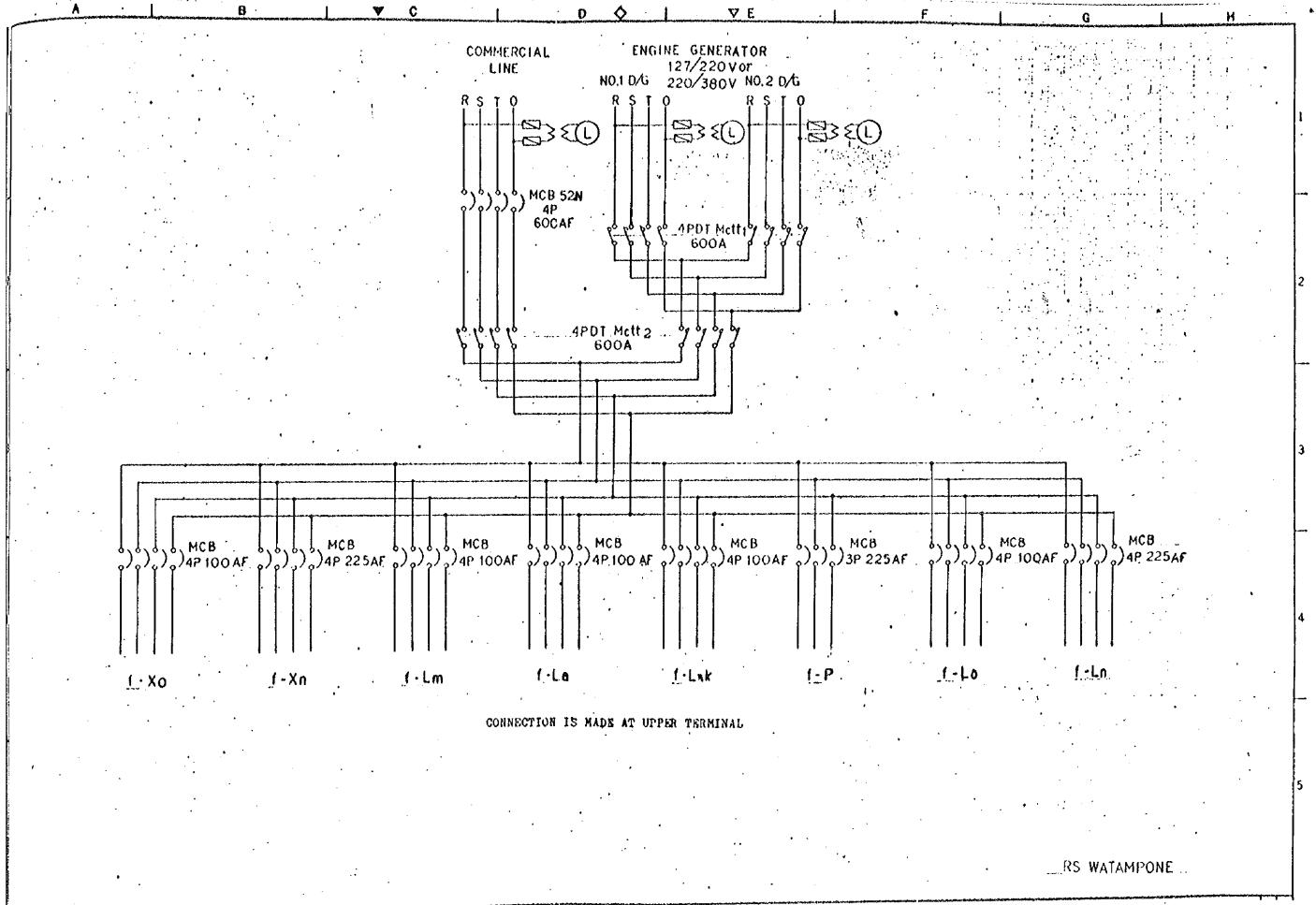


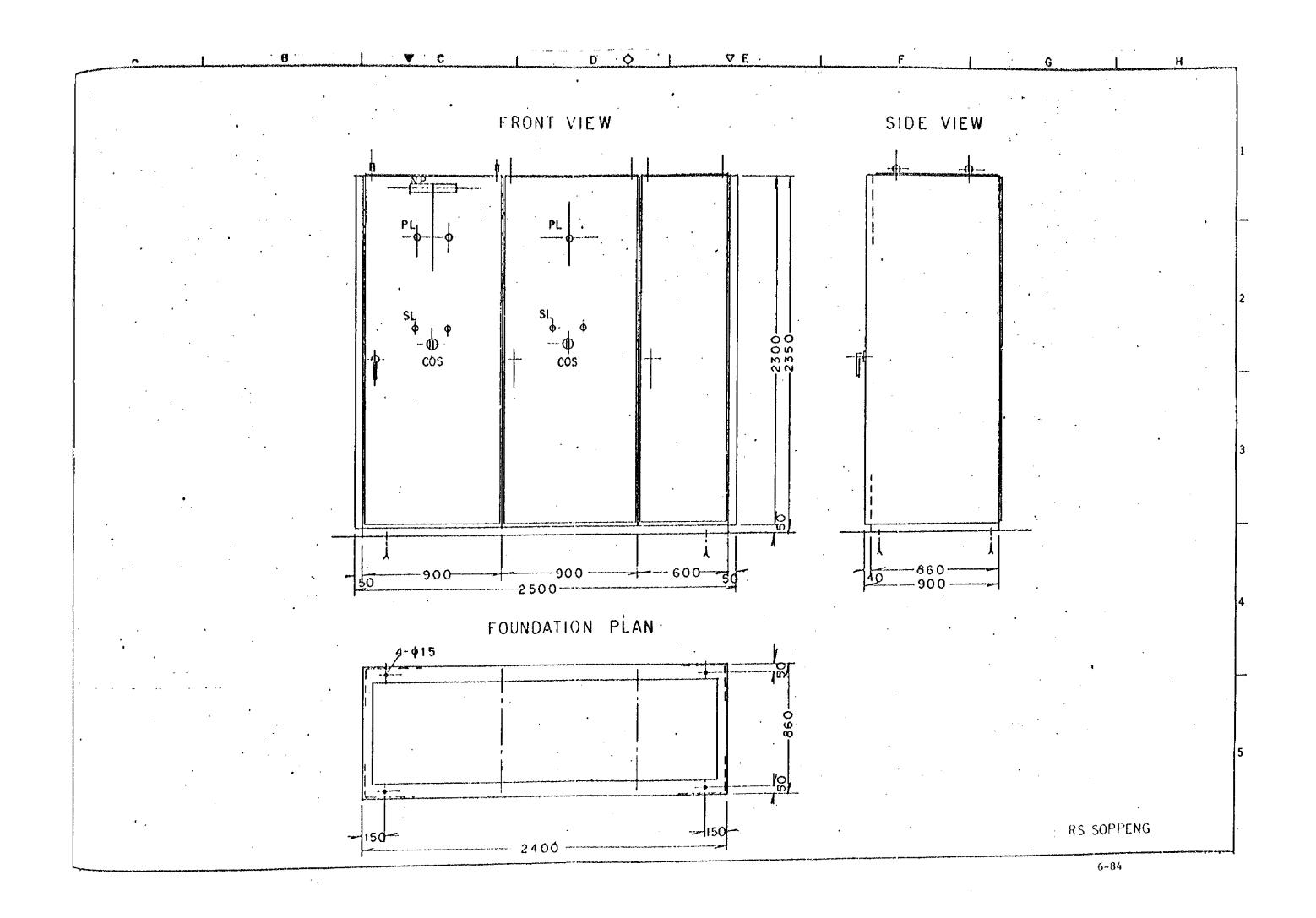


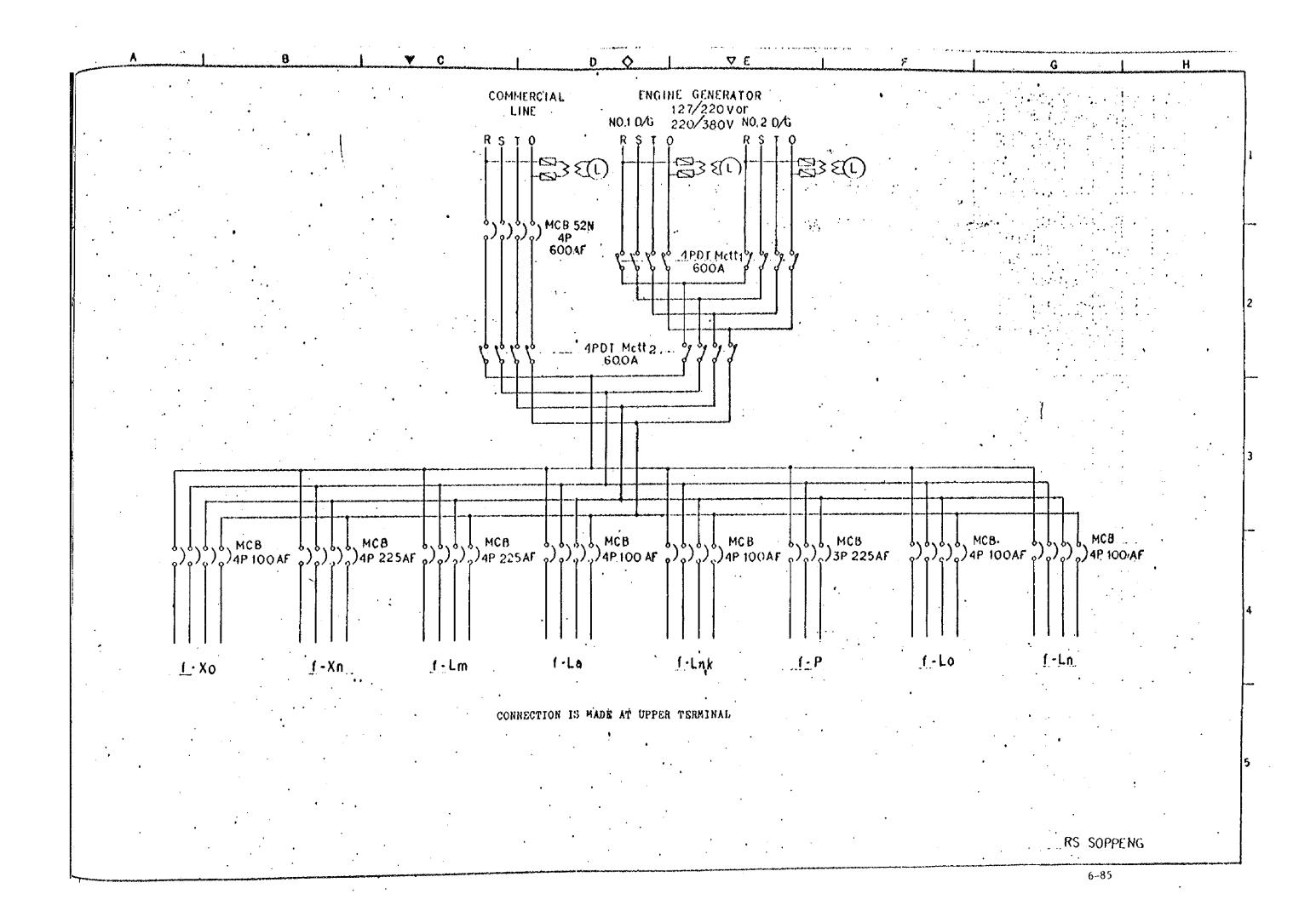


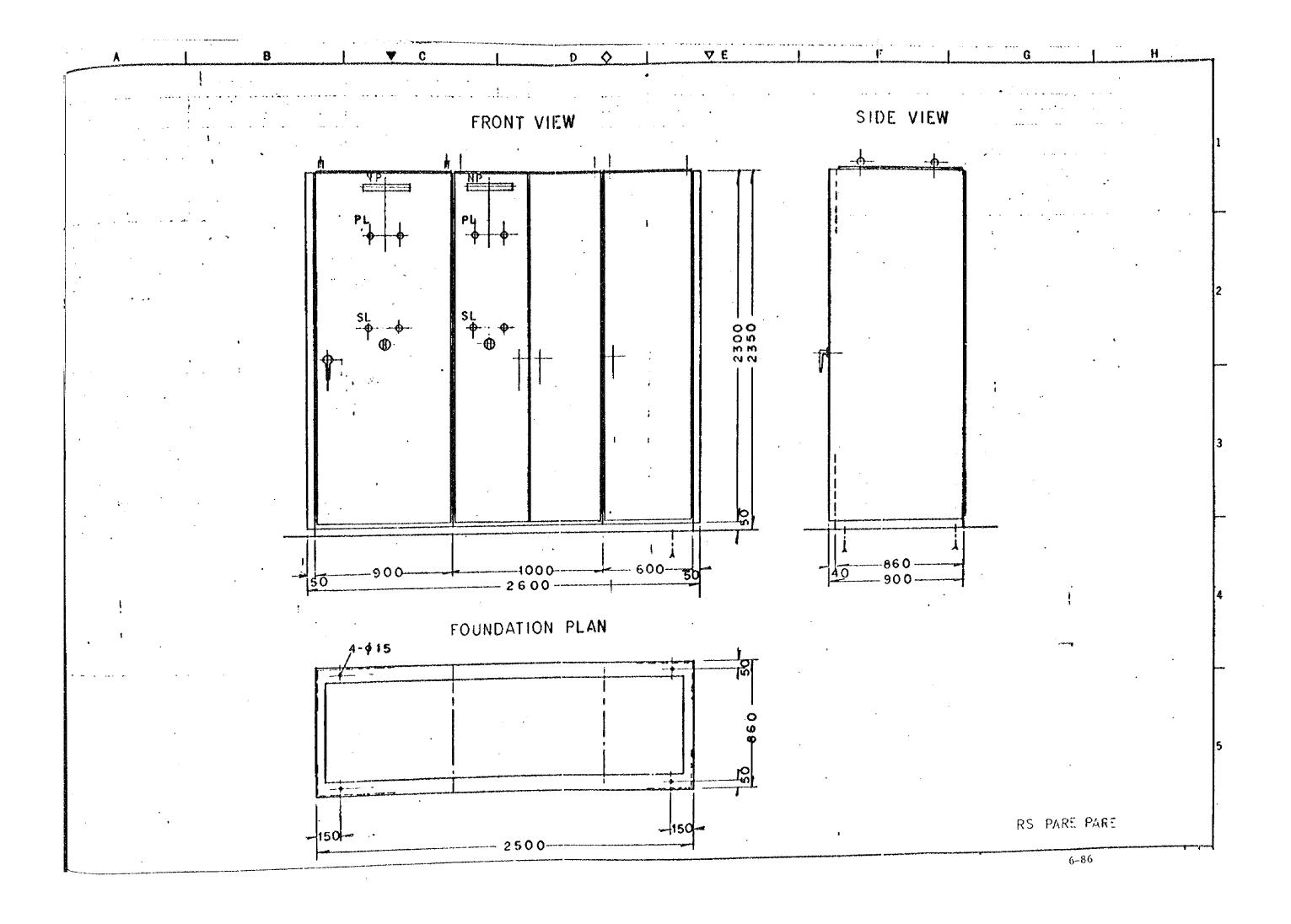


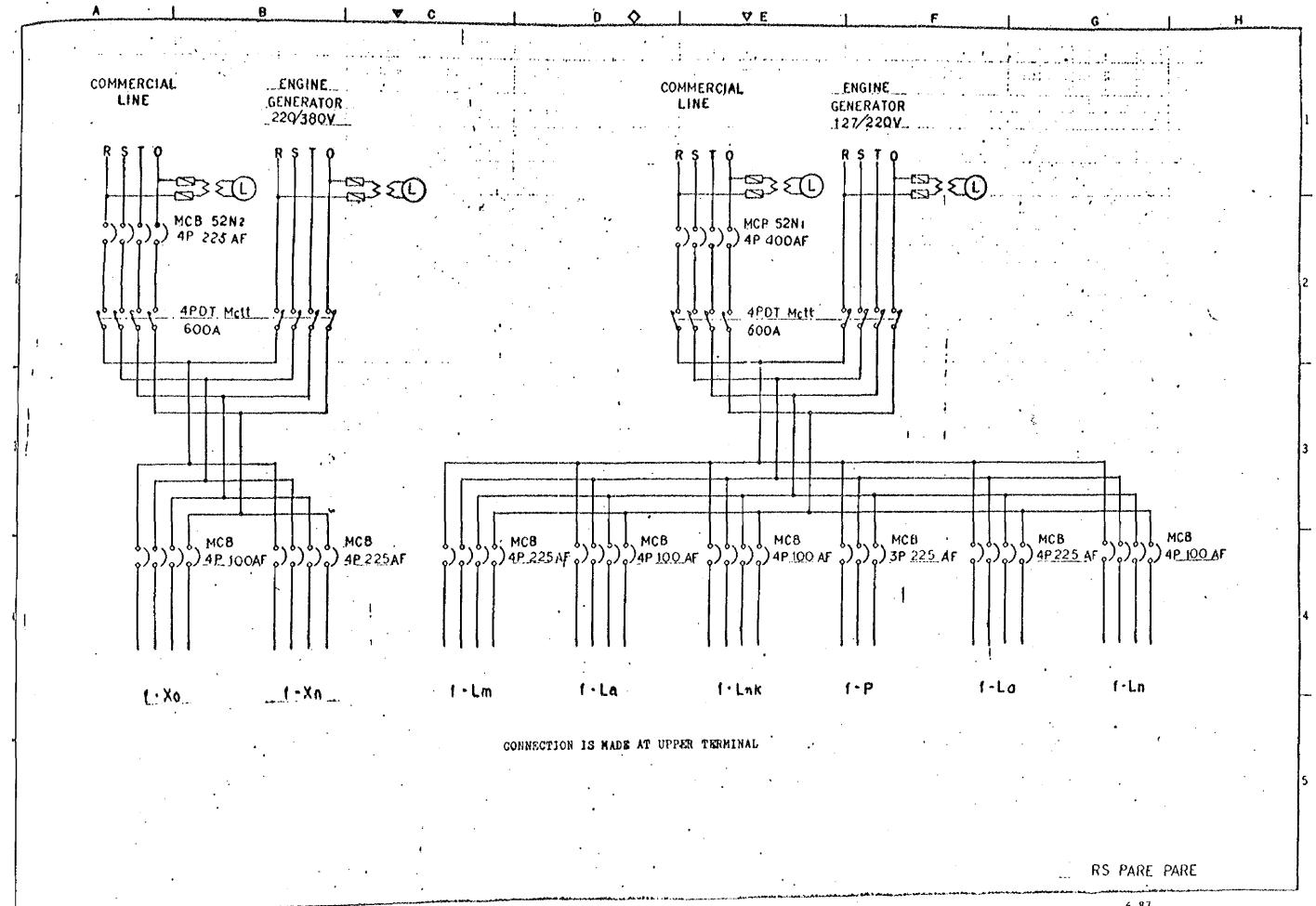


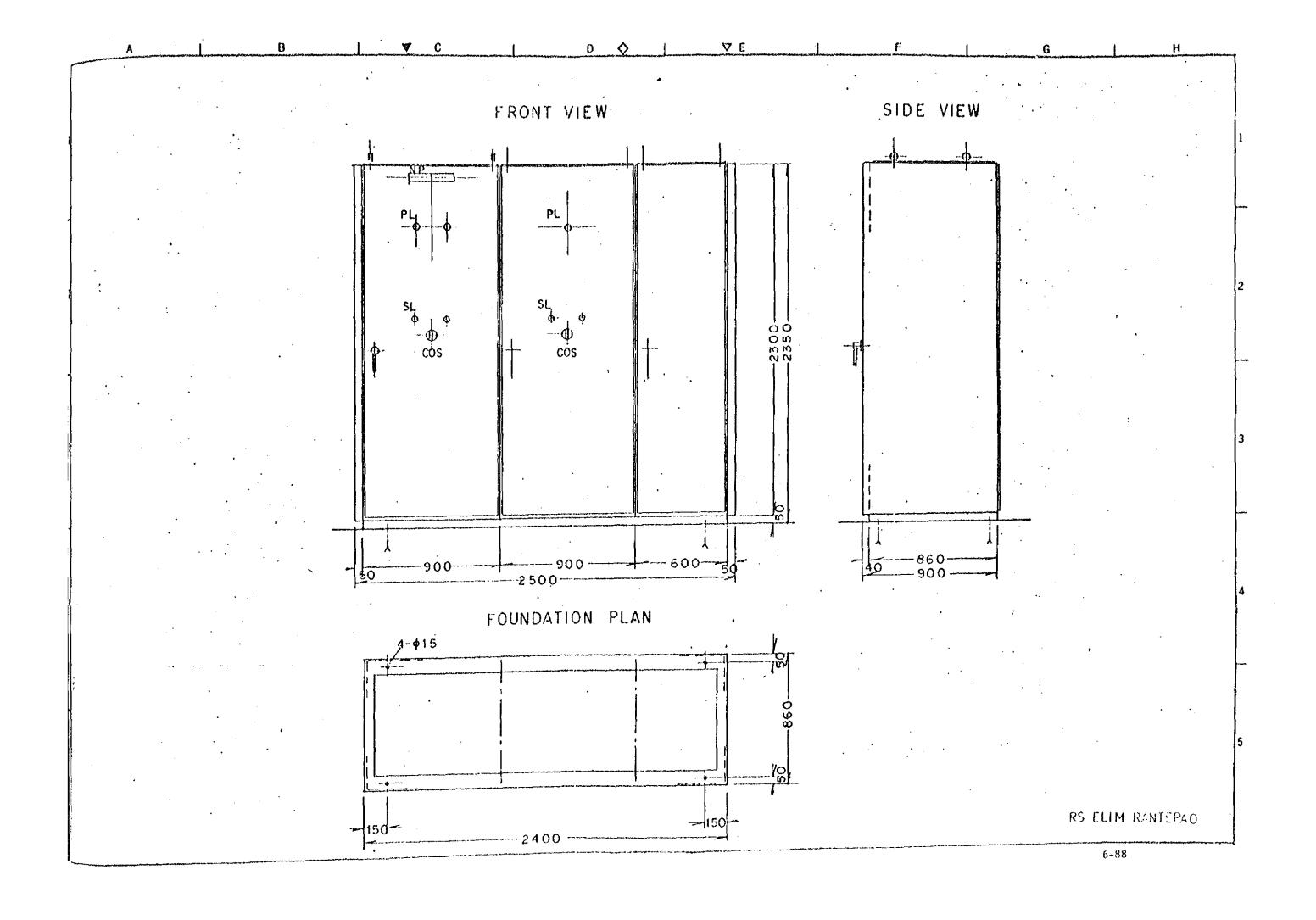


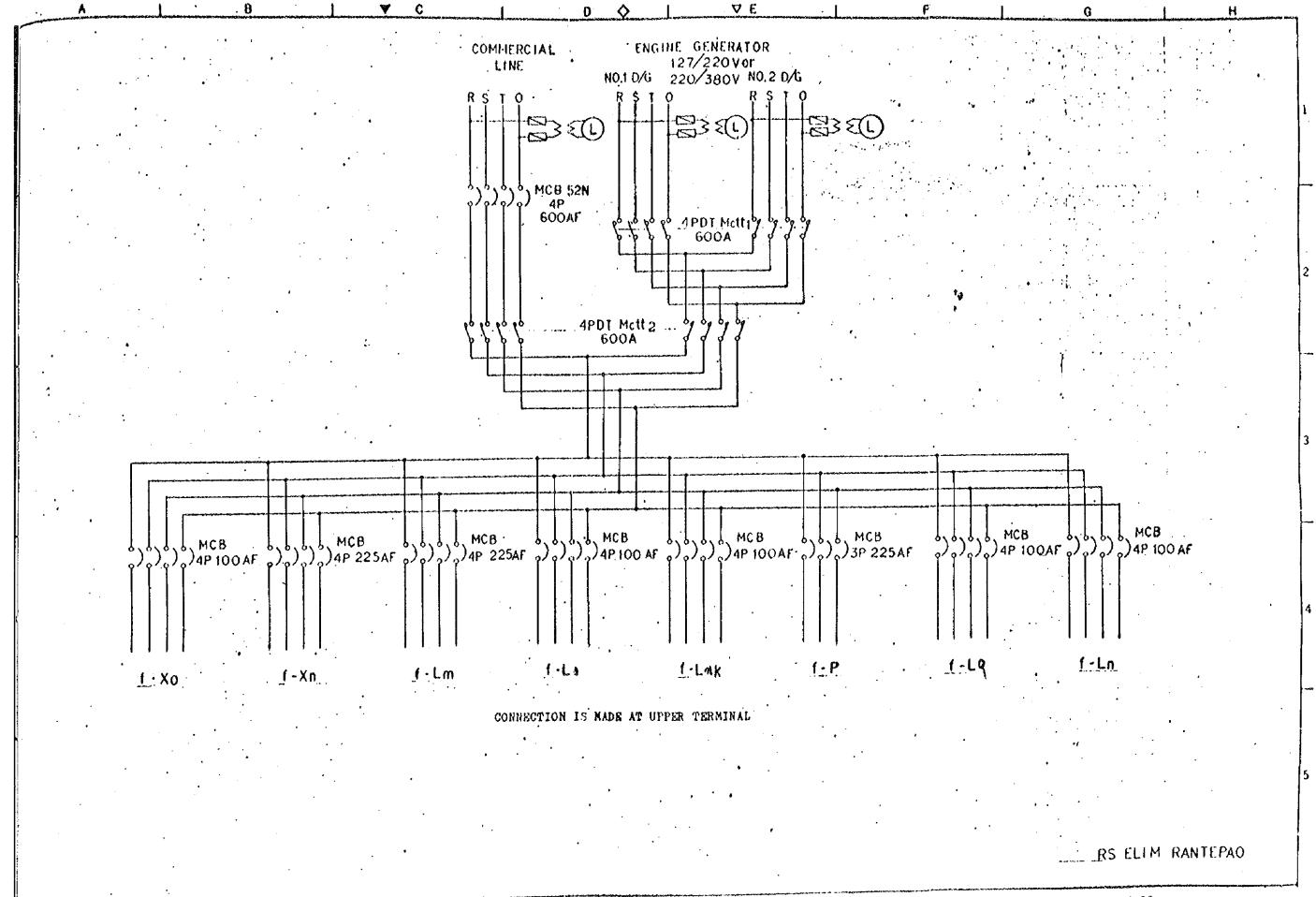


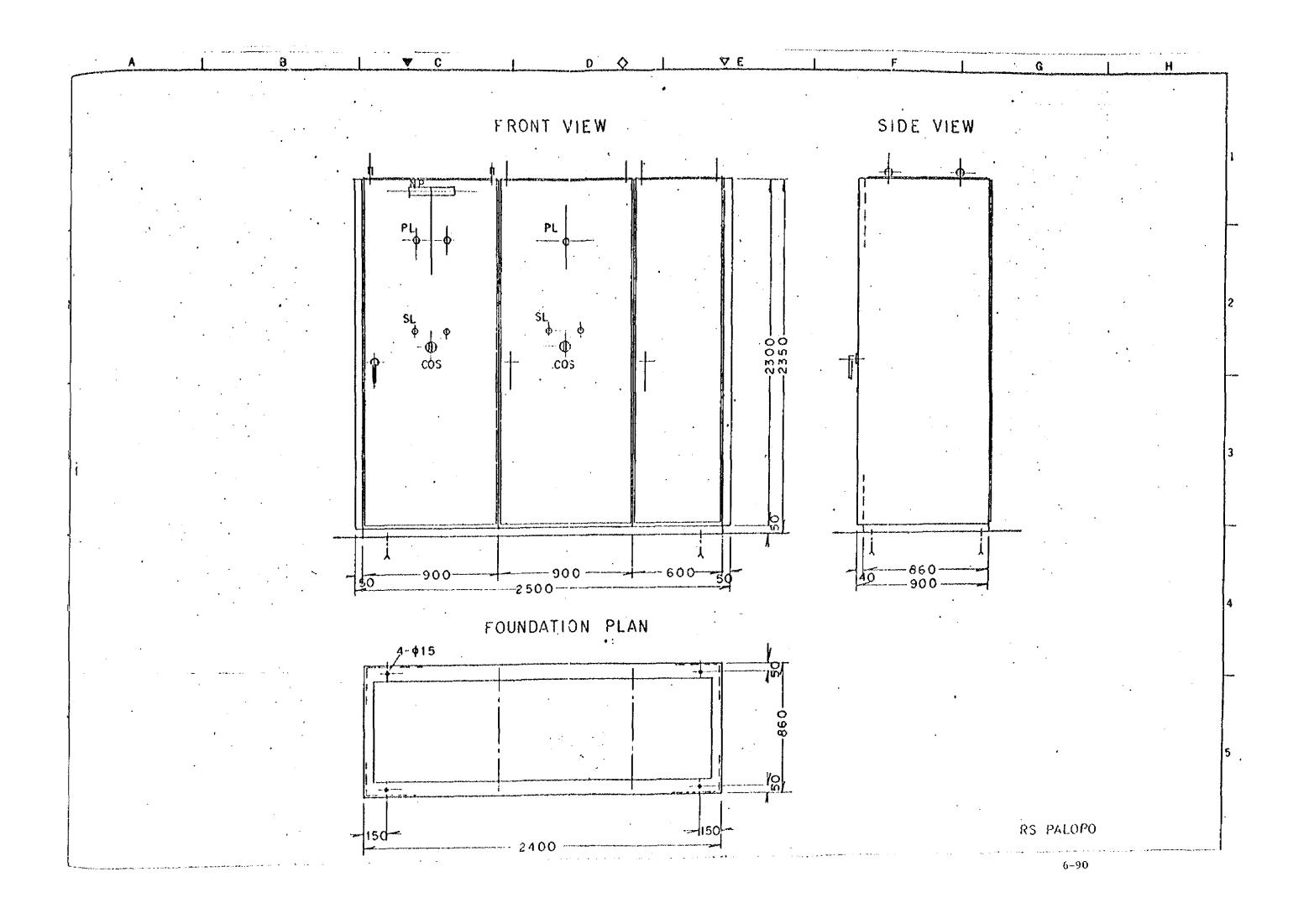


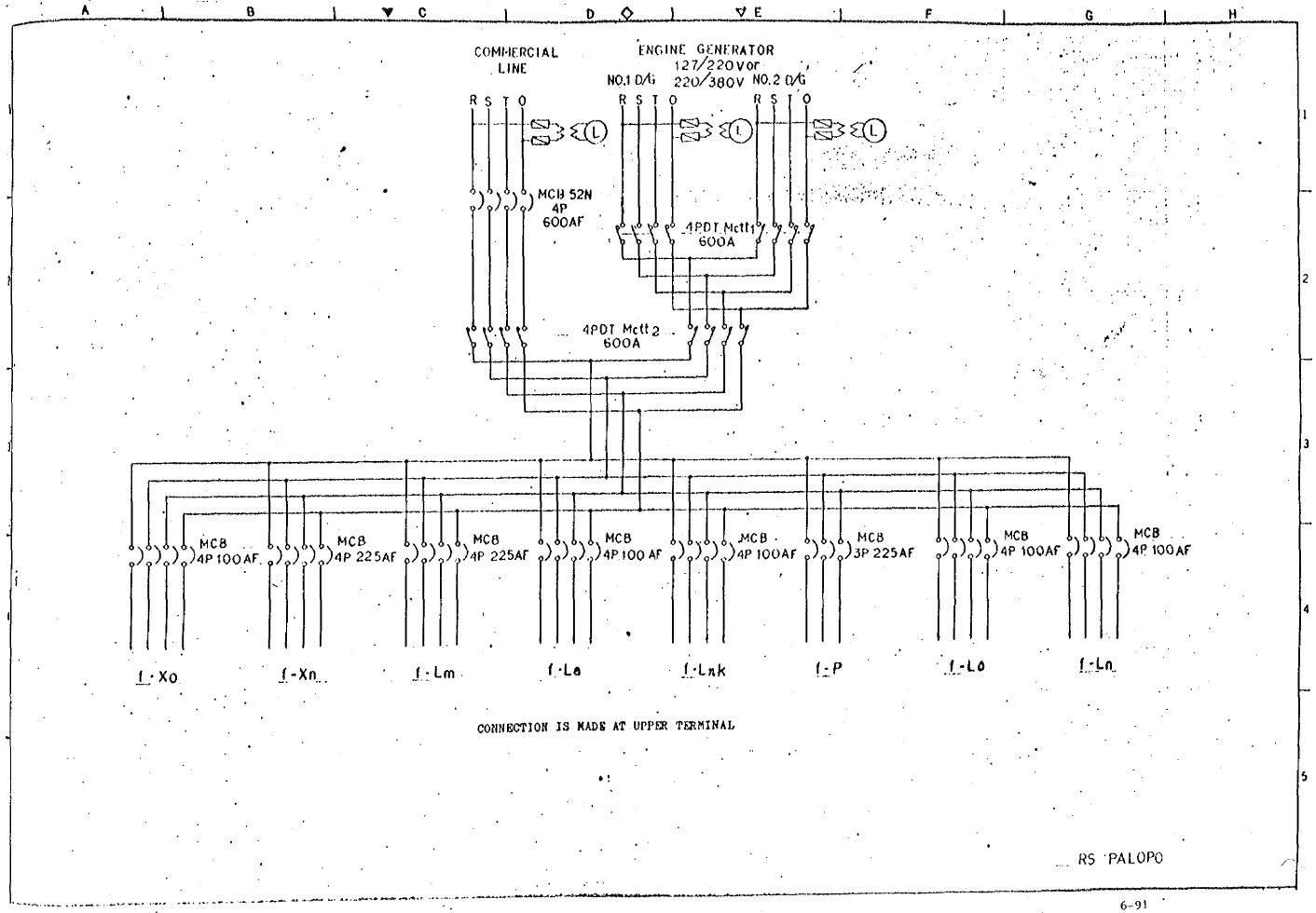


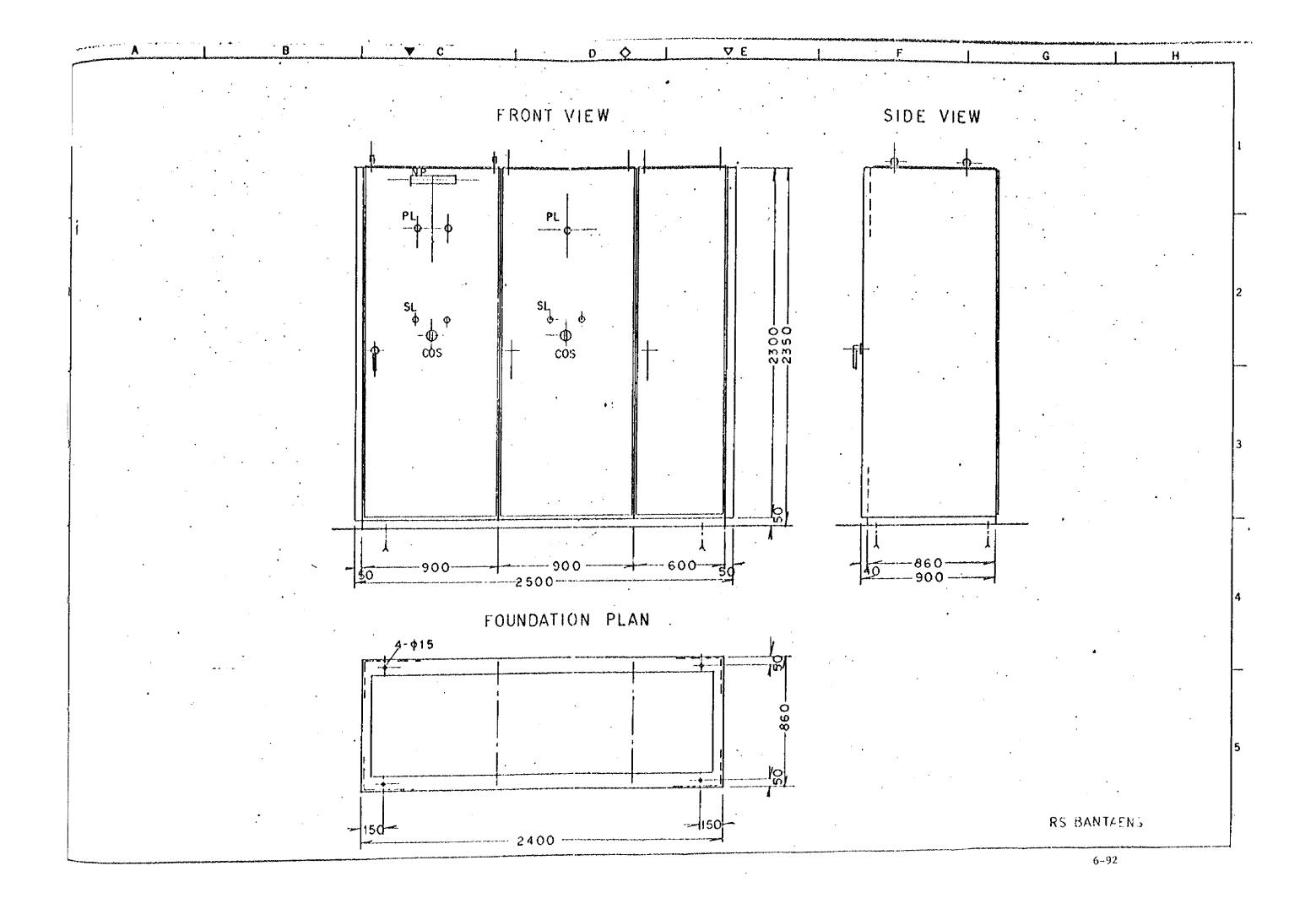


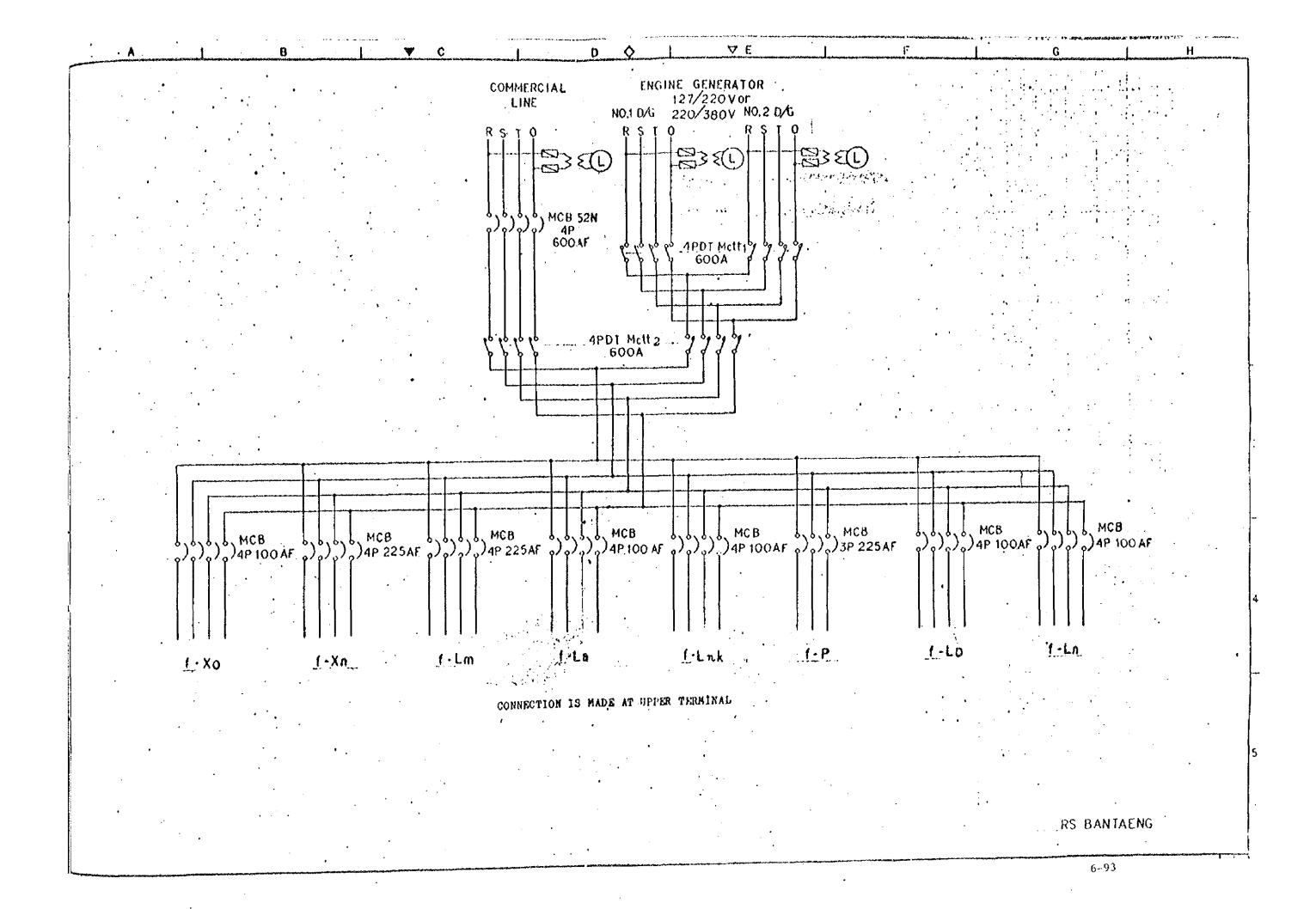


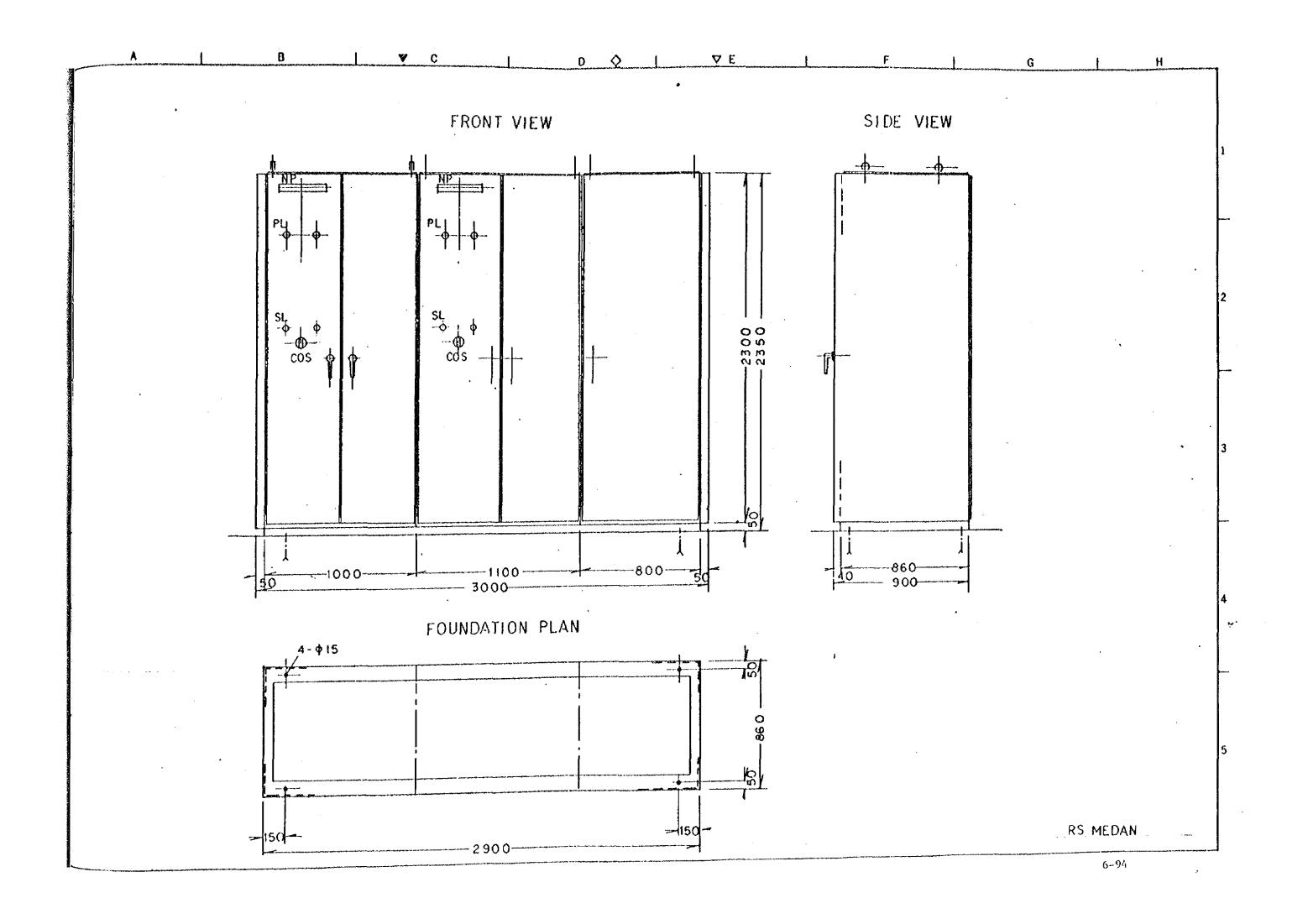


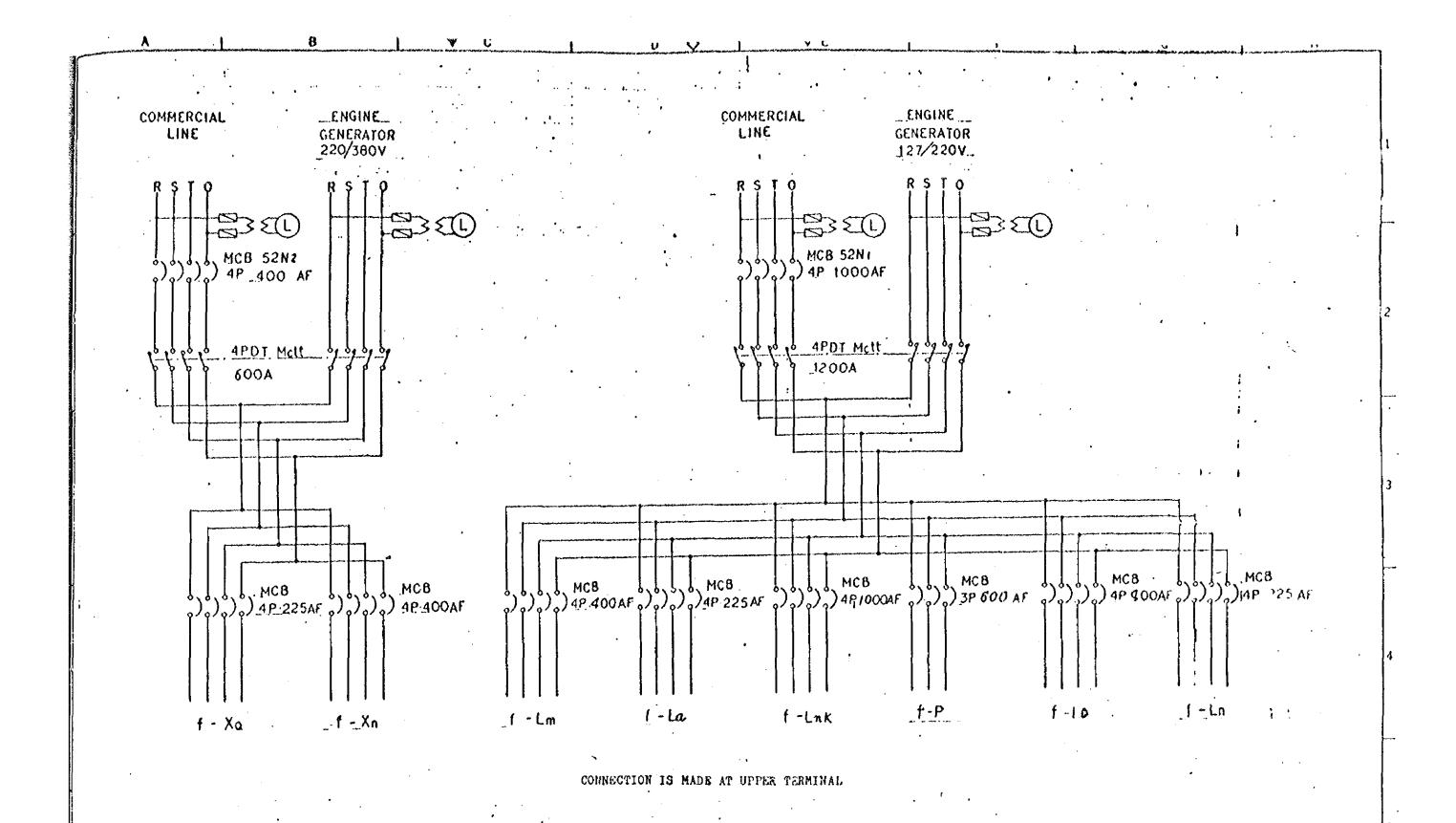


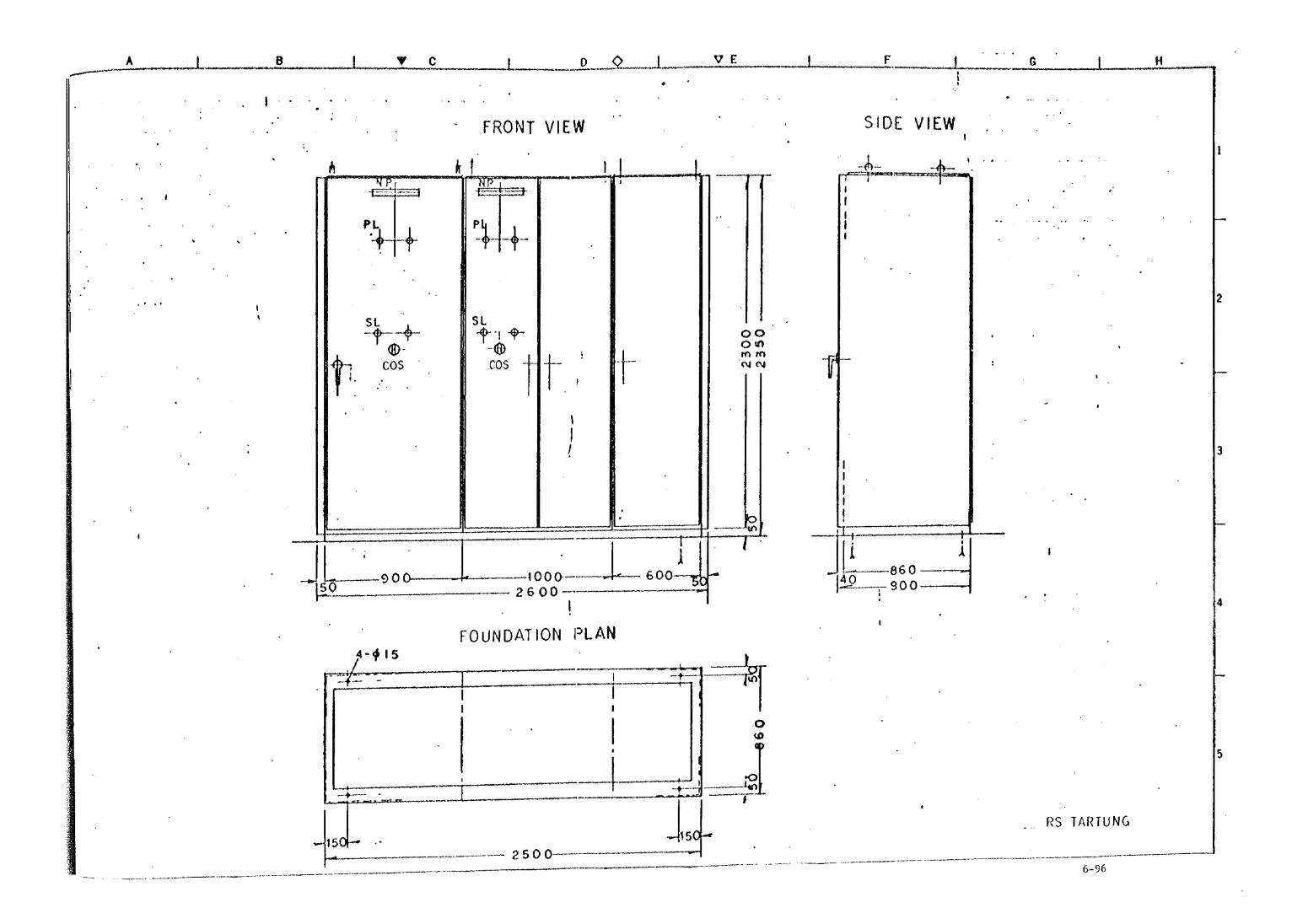


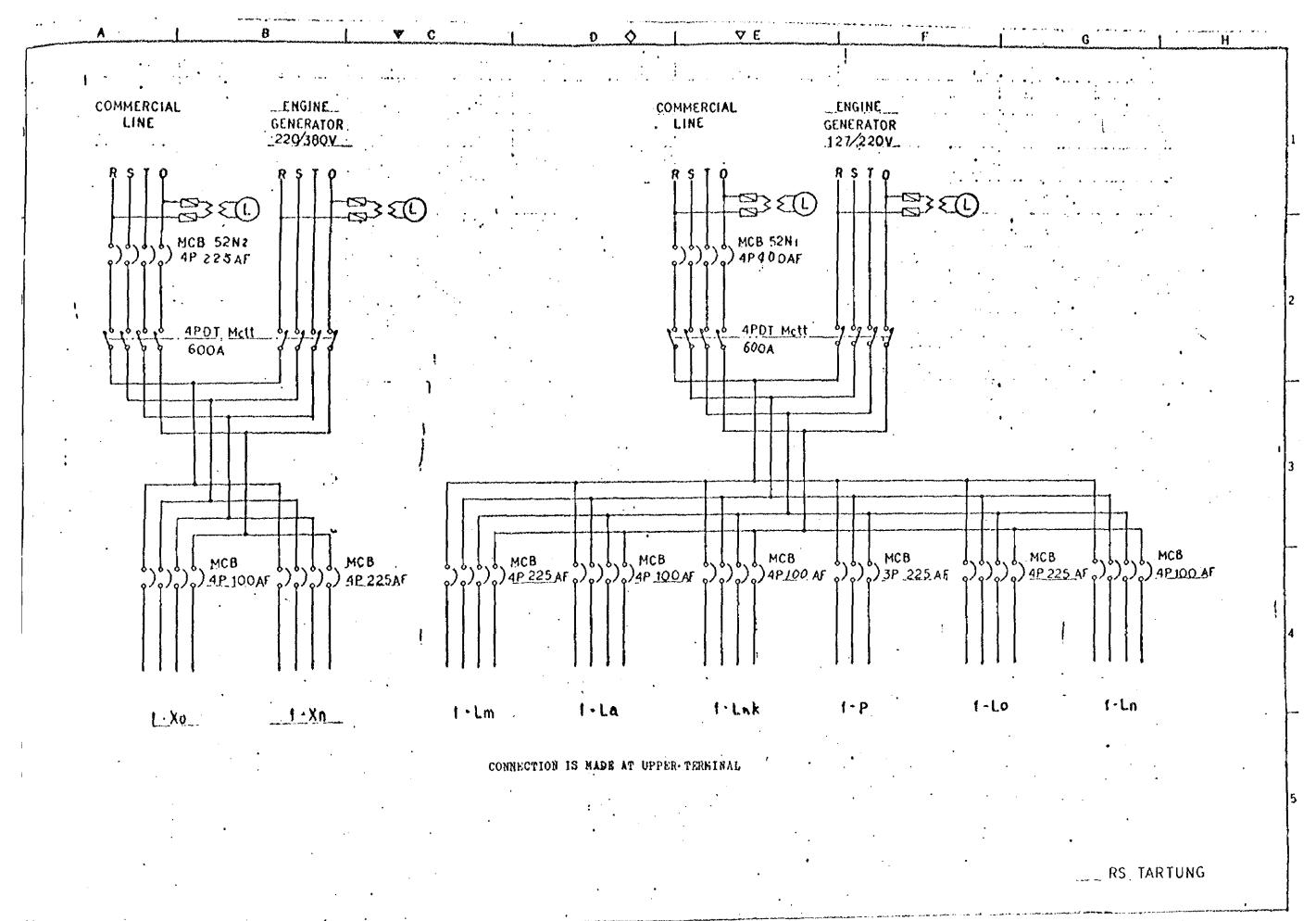


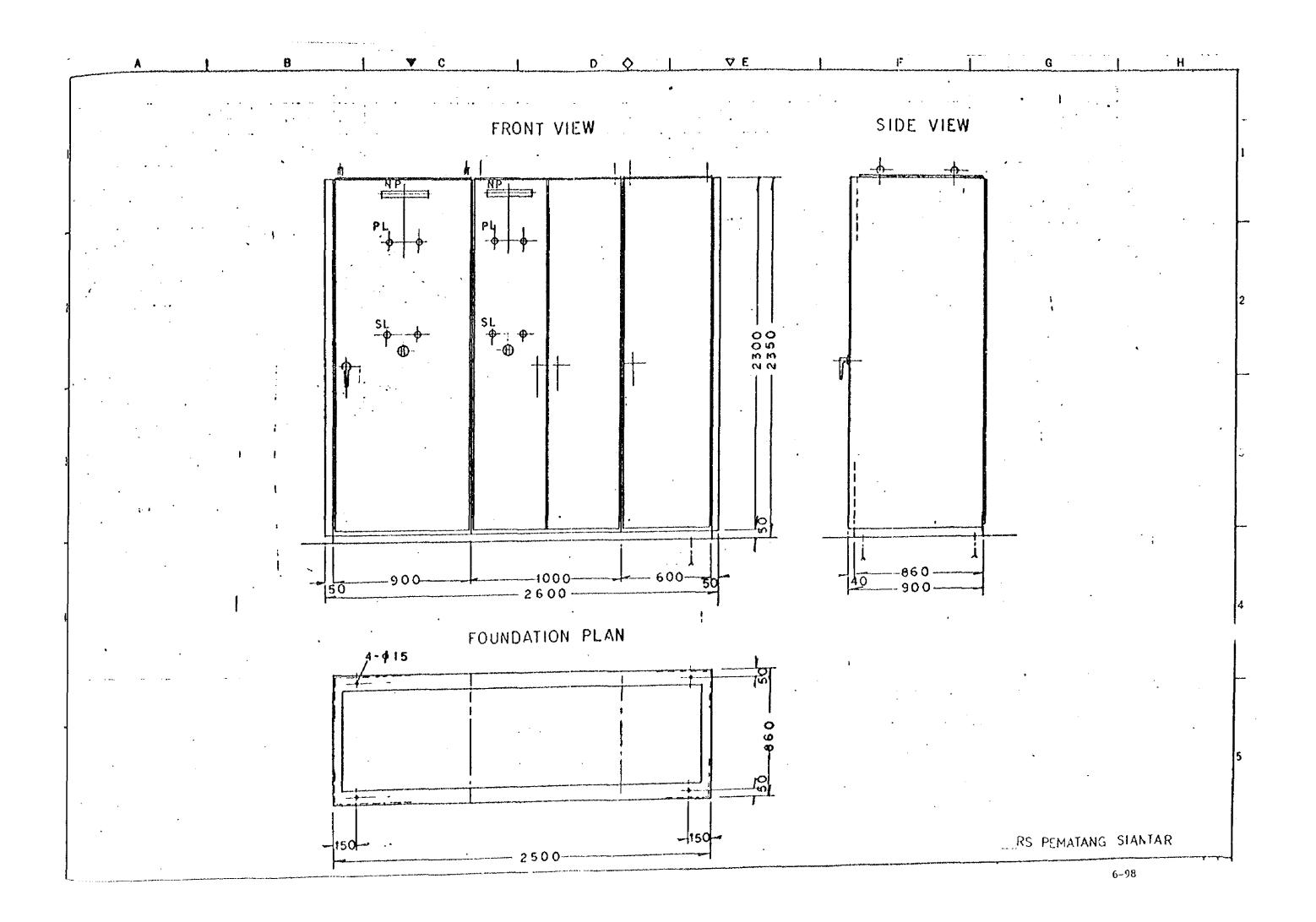


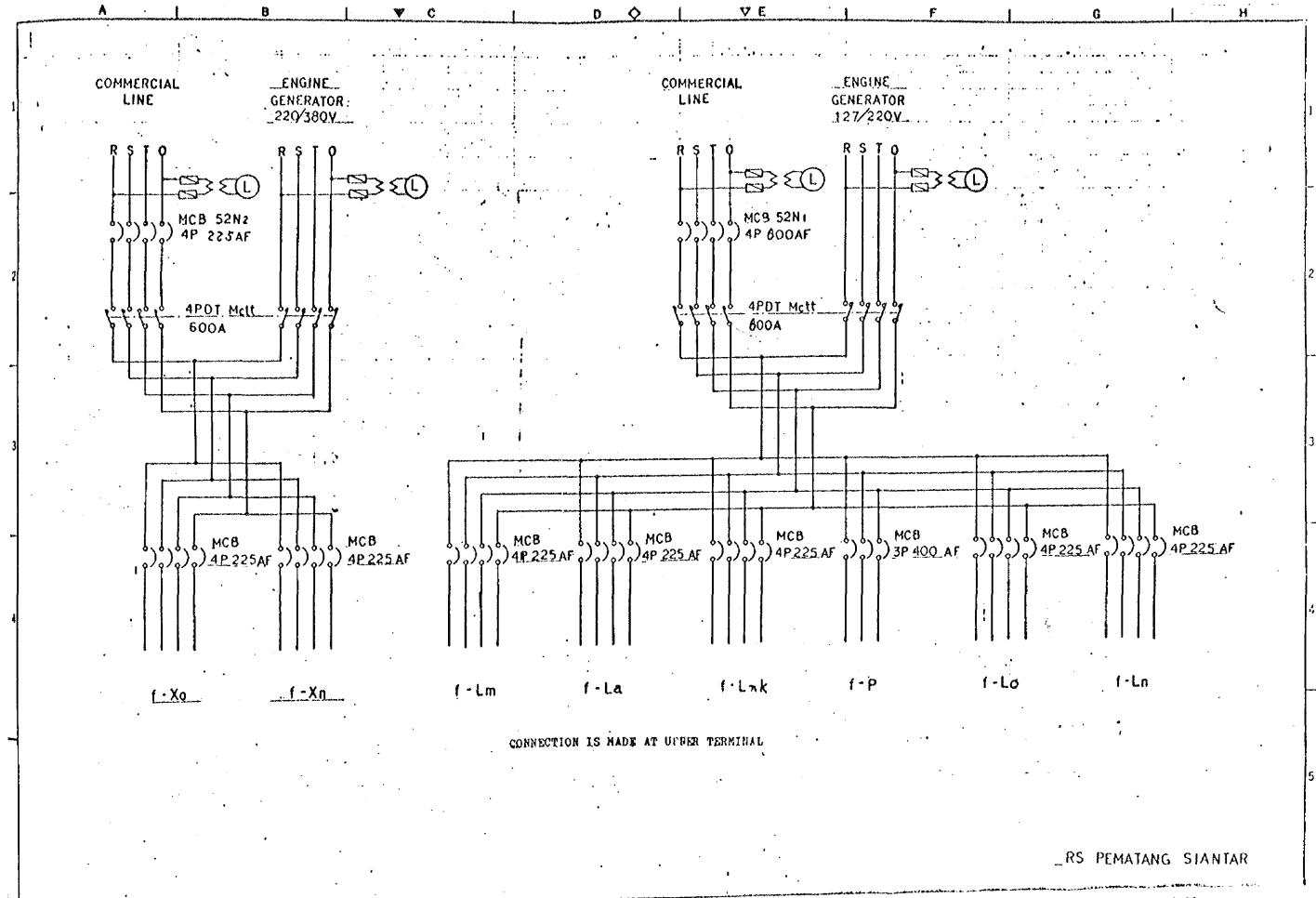


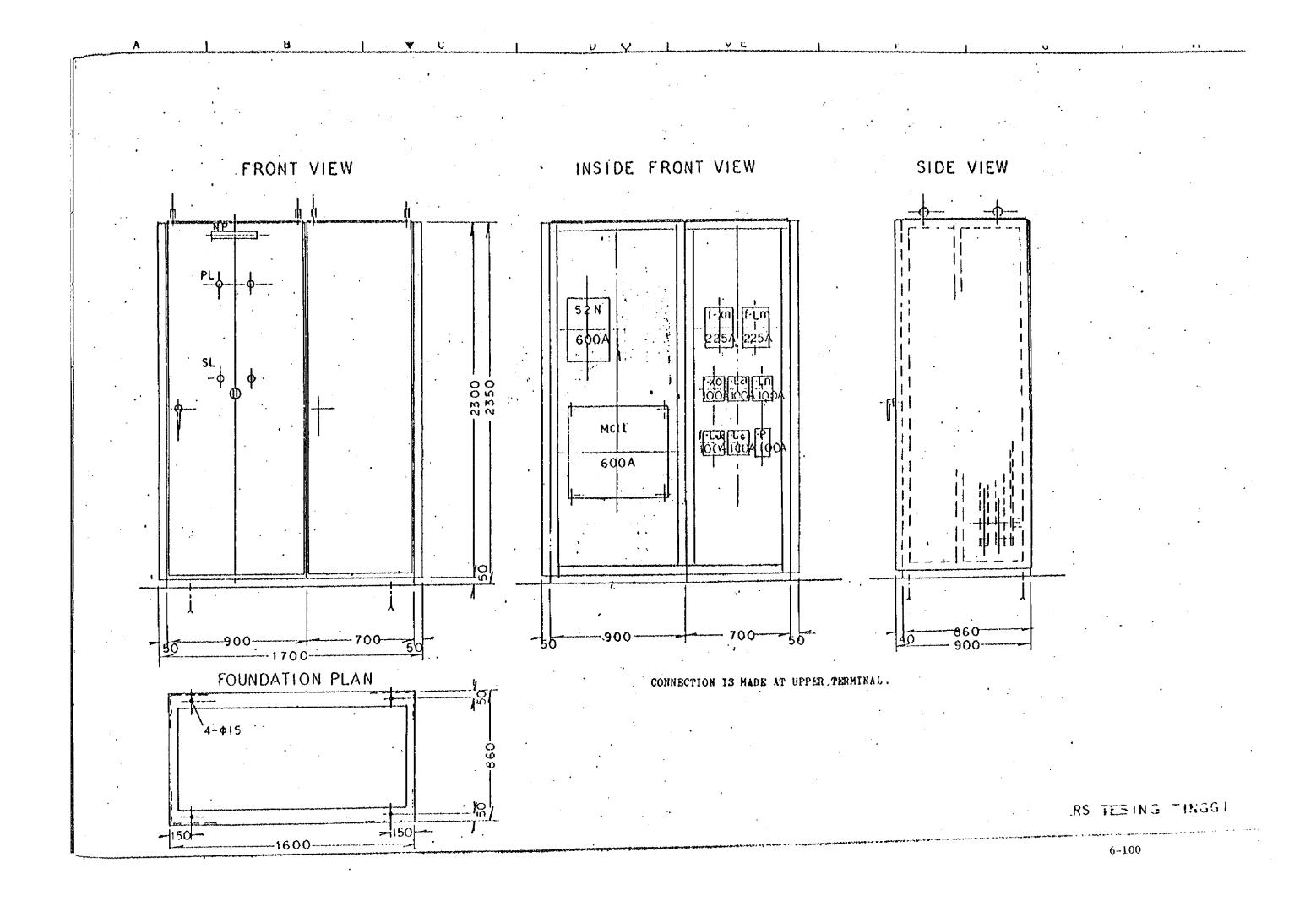


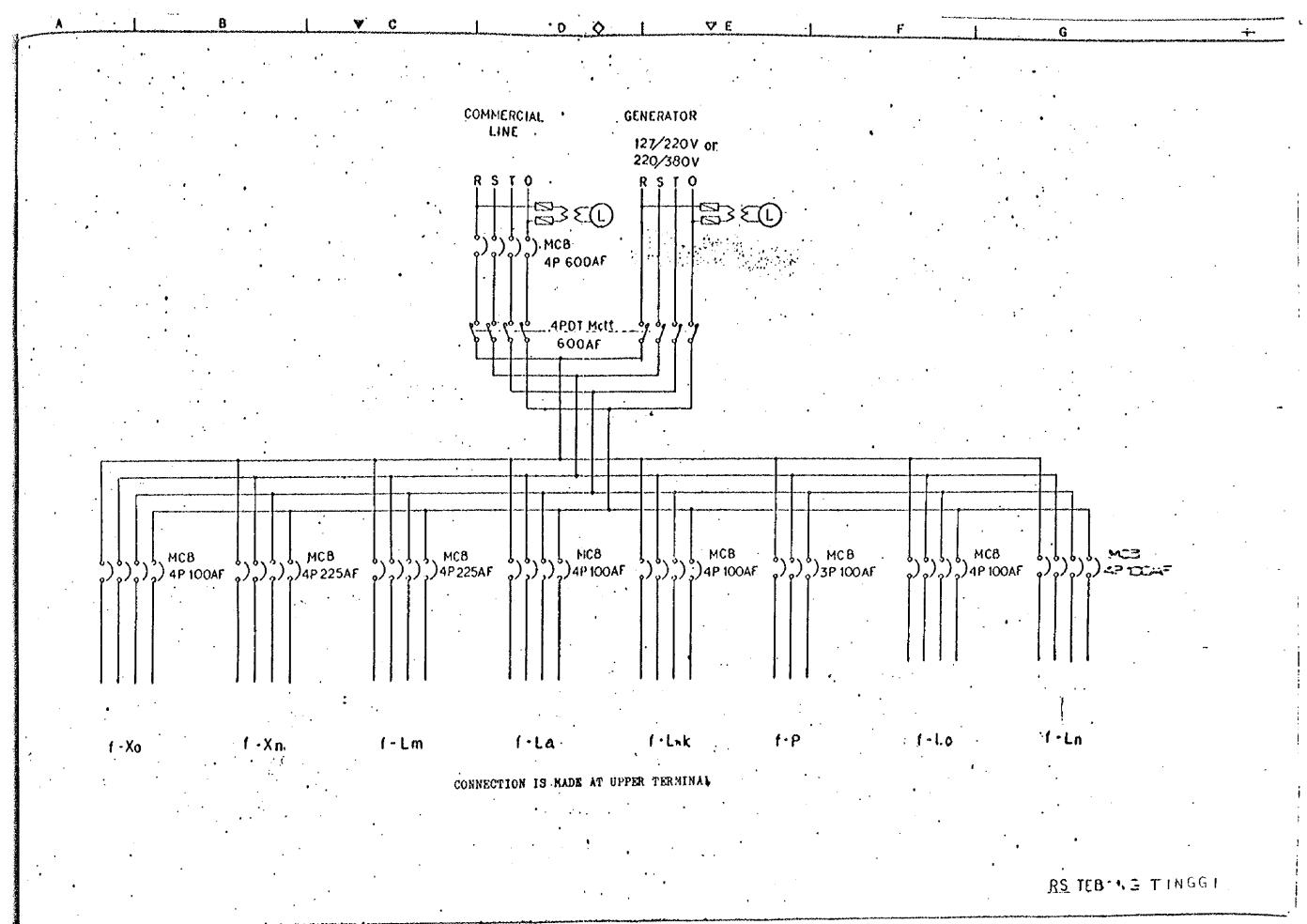


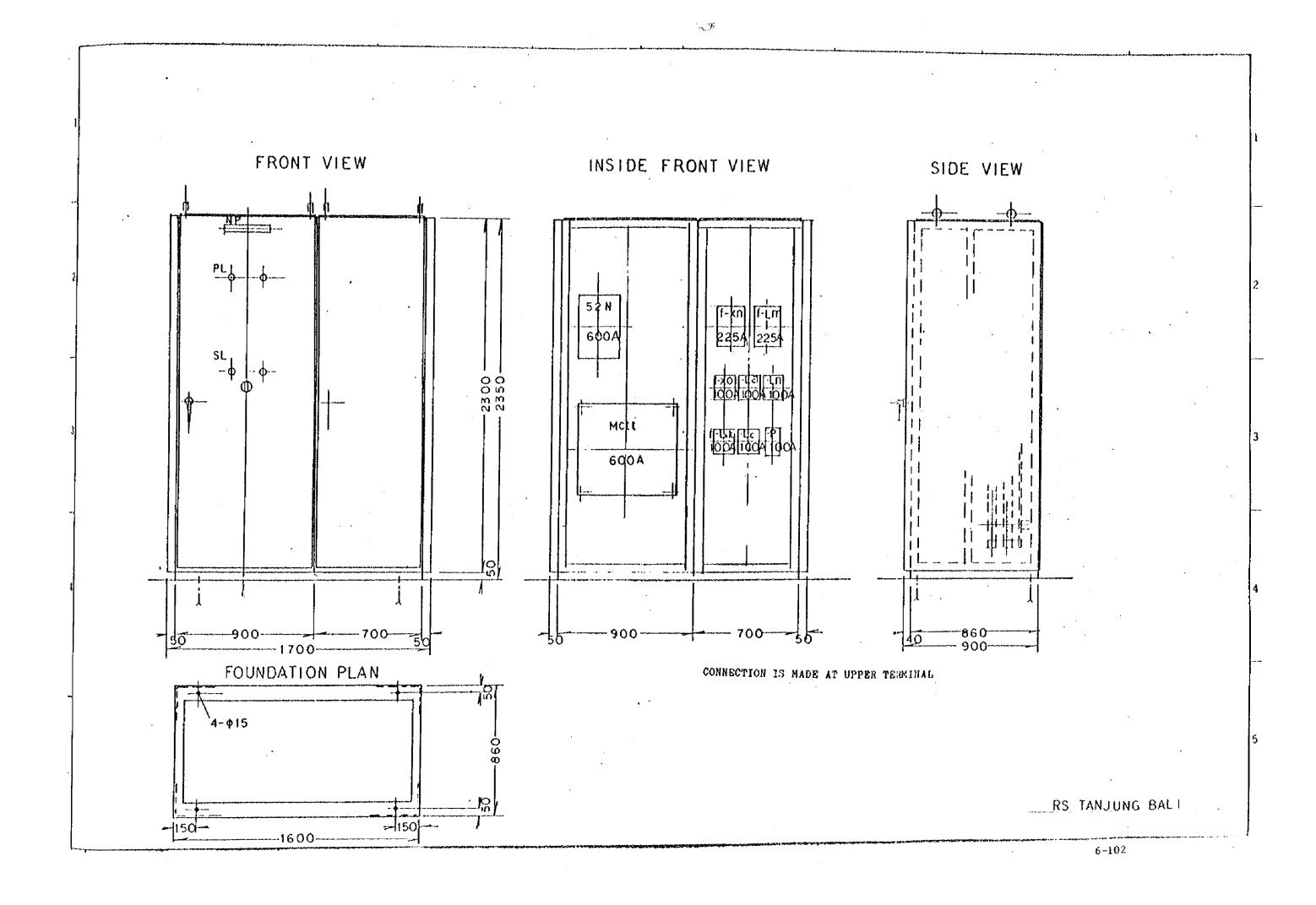


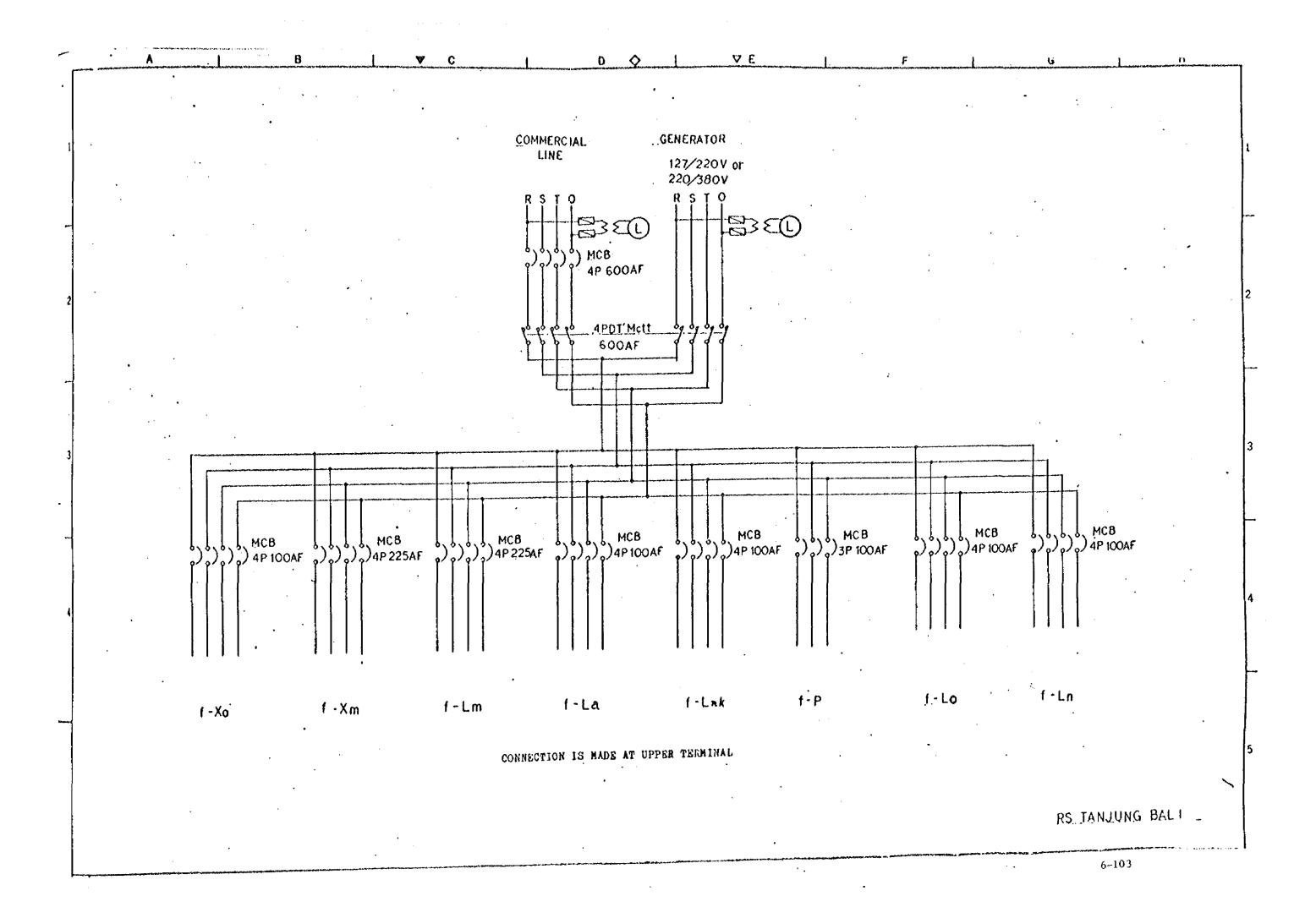


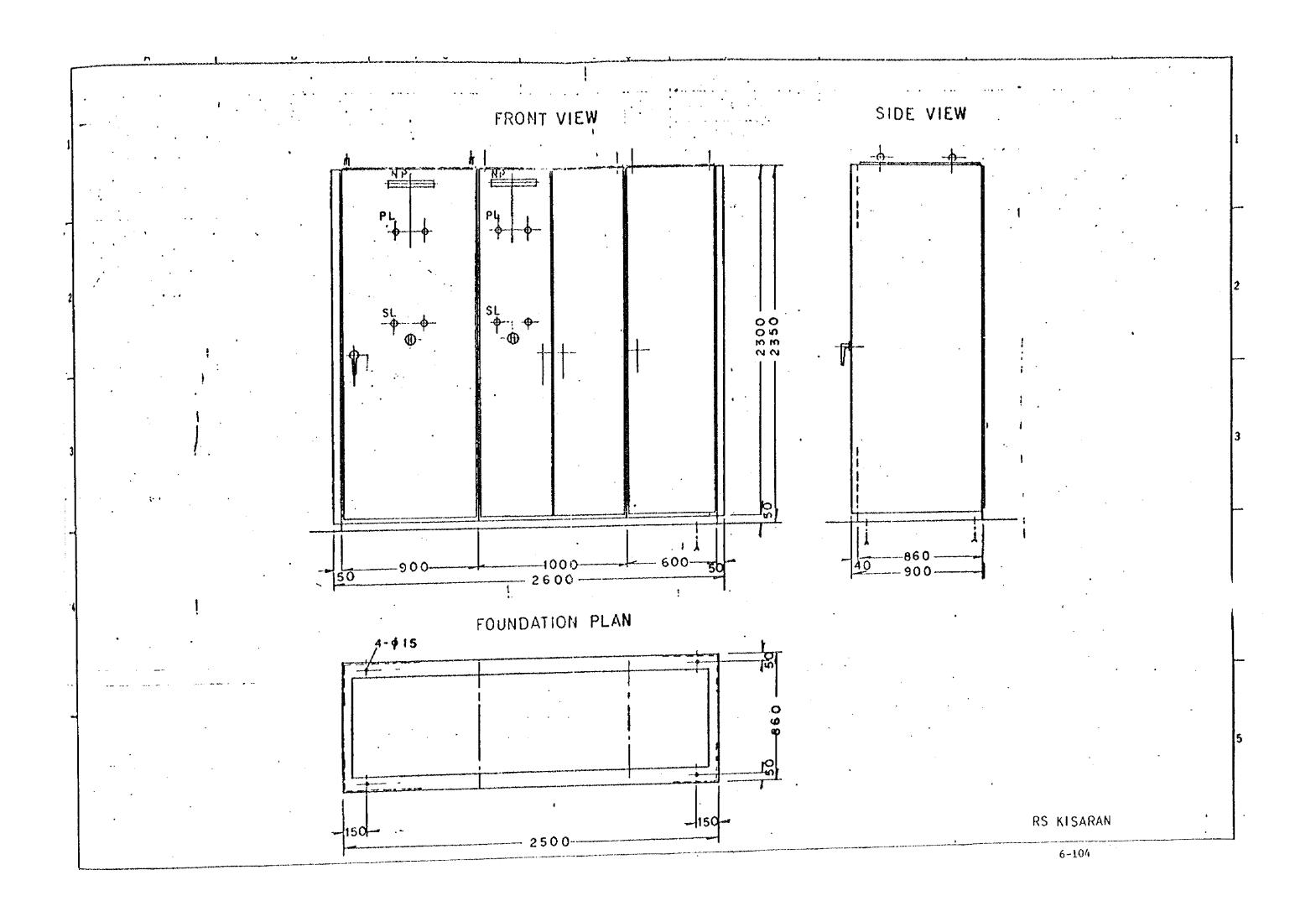


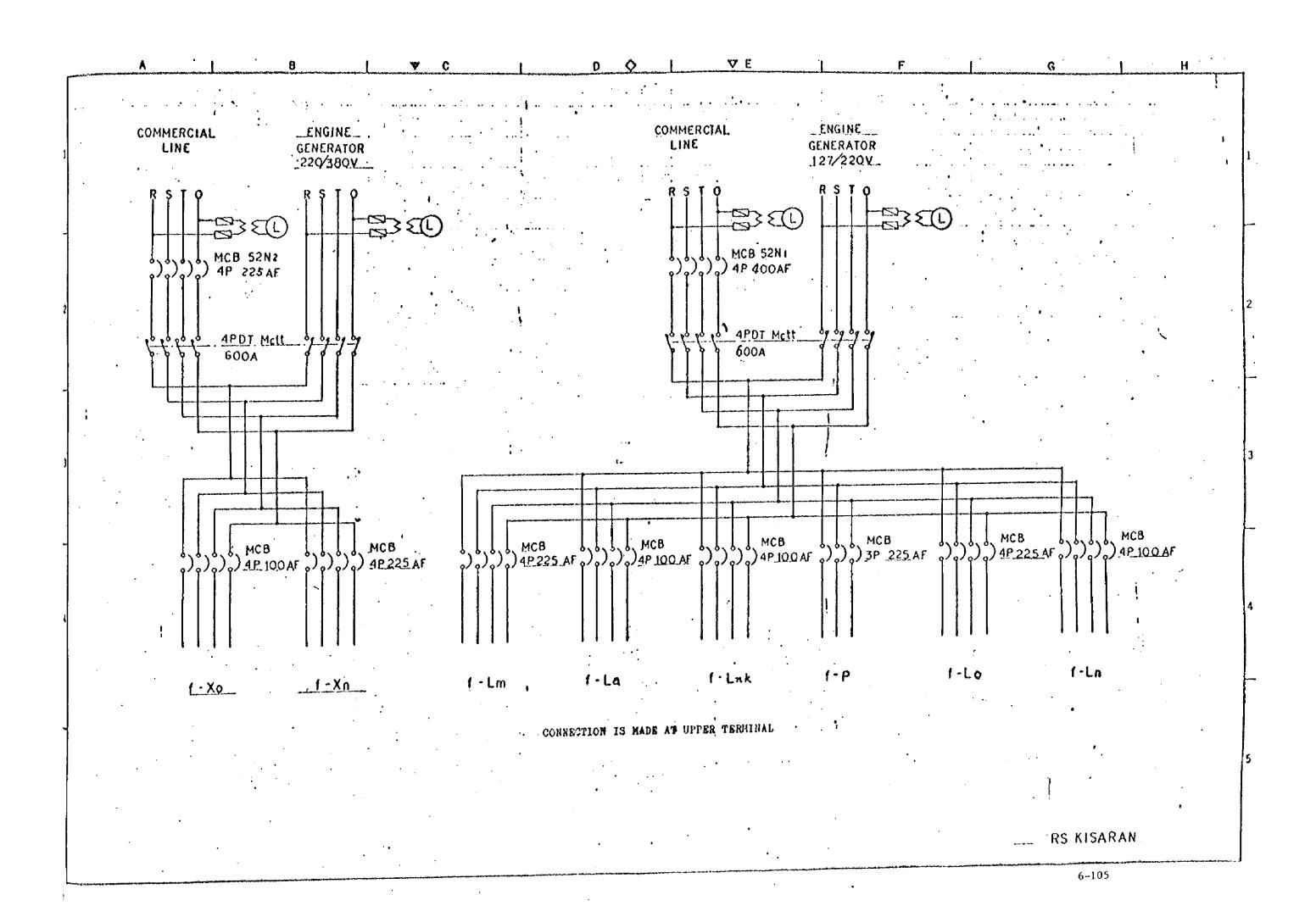


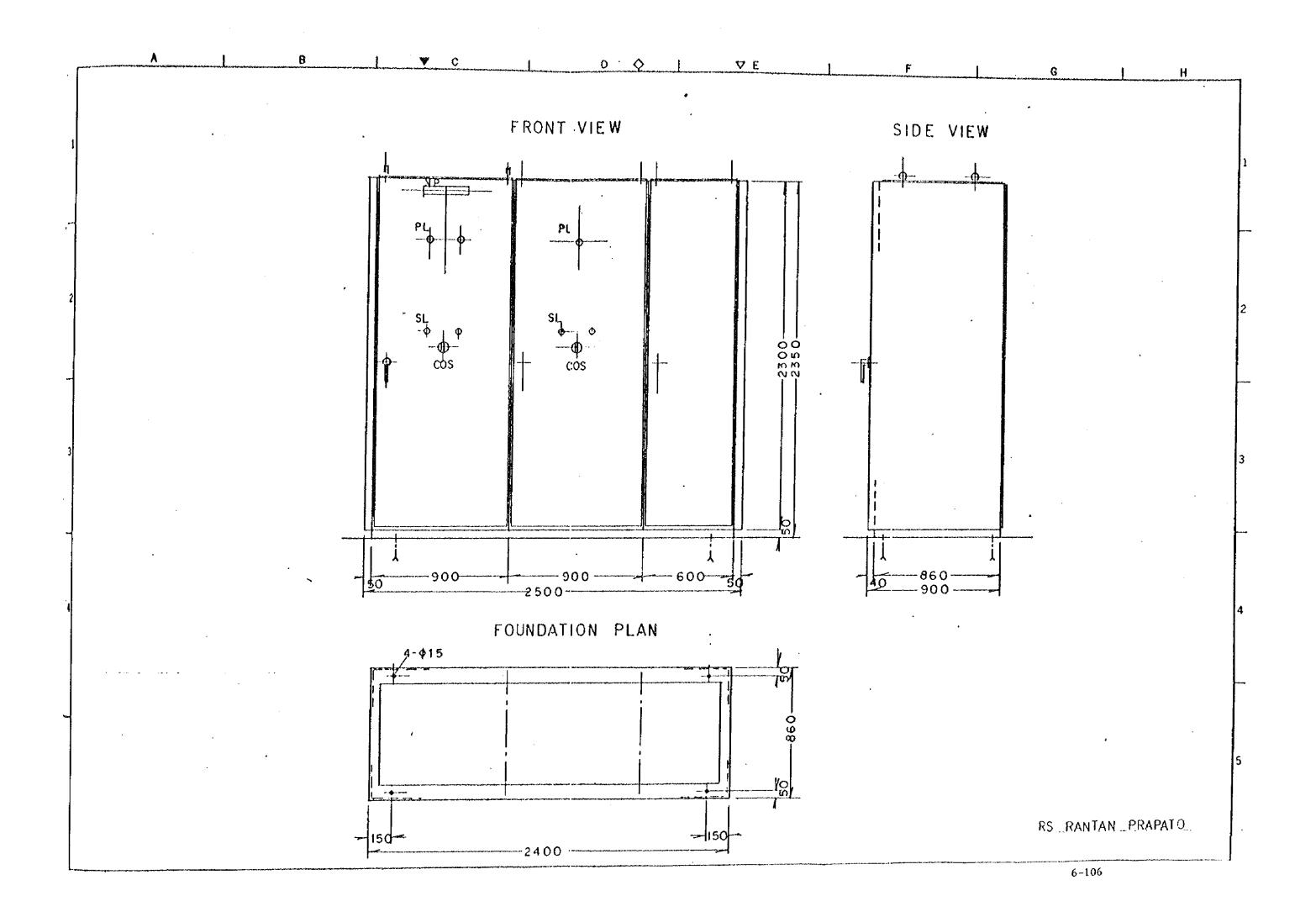


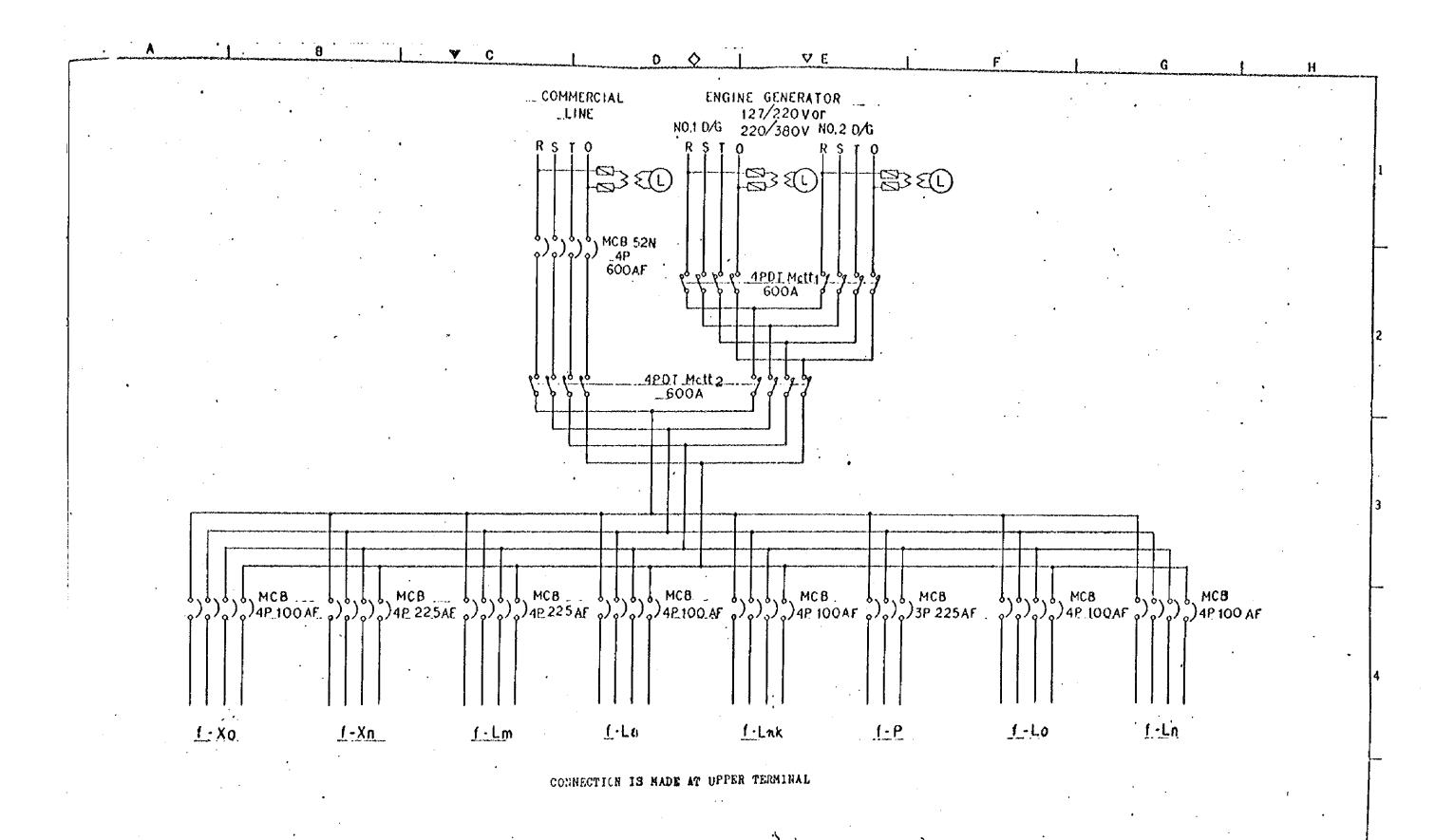












RS\_RANTAN PRAPATO

		3	Cable 60	000 CV	(mm <sup>2</sup> )		Cable	End	Connection Read	on Wead		
	14-4C	22-40	38-4c	90-4c	100-4C	150-4c	14-4C	22-4C	38-4c	60-4C	100-4c	150-4C
Gunung Wenang					17	150					2	2
Tondano		80				77		2				ri
Kotamobagu	34		*	20	<b>-</b>		러			-1		
Gorontalo	43				41		Н				<b>-</b> 1	
Lim Kendaga		07				44		<b>;</b>				r-t
Sub-total	77	120		50	82	238	2	ო		r-1	3	4
Ujung pandang	70				65	67	r-1				7	2
Watam pono		07			ਜੂ 8			-4			Н	
Sopping		47			97			e-d			М	
Parepare		70				77		Н				r-1
Elim Rantpao	60				57		н				7	
Palopo	20			1 2 7 7 7 7	87		rđ				<b>,</b> →	
Bantaeng	43				T7		rd				<b>-</b> 4	
Sub-total	223	127			389	111	7	Э			7	3
Medan			100	<u></u>	162	168			rH		2	2
Tartung		74	90			157			rH			2
Porsea		75			48			r-l			ri	
Sianter				,	87	126					rH	2
T. Tinggi	06						7					
Tanzun Bali			40		32				H			۲
Kisaran		32			32			H				e-4
Rantauprapht	09				57		<b>-</b>					p{
Sub-total	150m	153 <sup>m</sup>	200 <sup>m</sup>	· · · · · · · · · · · · · · · · · · ·	379m	451 <sup>m</sup>	M)	<b>n</b>	8		7	
Total	450	400	200 m	50 m	850m	800 m	σ	0	۵,	(	/1	1.5

## 1) Work shop

		Nomenclature	Specification	Description	Q¹ty	Remarks
-3] 5	8	Hoist (General type)	Elimination	tt	1	
	10	Baby compressor	System	Automatic unloader	1	50Hz
	<b>1</b>		Power source	3 \$ 200-220V 3.5KW		
ı	,	!	Air pressure	7kg/cm <sup>2</sup>		
			Air Capacity	65Ձ:175Ձ/min	;	
			Rotational frequency	950 r.p.m.		
:	, ,	!	Installation dimentions	885x366x1040 115 mg		
:	11	Spray Gum	System	Horizontal	3	Hose 100m
; i	<u>:</u> 1		· · · · · · · · · · · · · · · · · · ·	spray and		Hose
		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th		Syphon type		
		; ;	Air pressure	3.5kg/cm <sup>2</sup>		
	- (	! !	Air consumption capacity	175 £/min		
:	12	Norizontal Cap.	Capacity	400 cc	3	
#mm	13	Air Transformer	Air Pressure	P. 3 <sup>8</sup> kg/cm <sup>2</sup> S. 1 <sup>7</sup> kg/cm <sup>2</sup>	3	
; [	14	Hand Lifter	Capacity Installation	1500 Kg 1210 × 460mm	1	
	ļ	, ; ;	(stroke)	180 ∿ 230mm		

Electric Work Shop

		Nomenclature	Specification	Description
4-311	11	Tools	Winder Fasthemer	3000 kg 250 kg 500 kg
			" Auxiliary wire gripper	1000 kg 1500 kg 3 #
			EI .	5 #

Omit tools No. 11 at P. 4-311 - 4-313 except above.

- 75 Water supply Facilities and Other Facilities
  Changes in the water supply facilities and other facilities
  - 1) Water supply facility The water supply method is changed from the elevated tank method to the direct pump feed system with no tank.
  - 2) Kitchen facility Classes C, D<sup>+</sup> and D are cancelled. The dishwasher and racks are cancelled and the number of serving wagons is reduced to half the initial value. In the hospital where the dishwasher is cancelled, a triple sink is added instead.
  - 3) Laundry facility Classes C, D<sup>+</sup> and D are cancelled.
  - Waste disposal facility
     All is cancelled.
  - 5) All facilities in the Porsea hospital are cancelled.

## Total cost of water supply facilities and other facilities

Name of hospital	Class	Loan in yen (10 <sup>3</sup> yen)	Basic cost $(10^3 R_p)$
Gunung Wenang	В	92,600	o
Tondano	С	800	1,900
Kotamobagu	С	800	0
Gorontalo	С	5,700	2,000
Liun Kendage	D <sup>+</sup>	600	0
Ujung Pandang	۸	106,800	37,100
Pare Pare	С	4,600	7,200
Palopo	$\mathbf{p}_{+}$	4,400	6,300
Soppeng	D <sup>+</sup>	8,400	5,900
Tenriawaru	D <sup>+</sup>	8,200	2,900
Elim Rantepao	D <sup>+</sup>	4,400	6,400
Bantaeng	D	4,000	1,200
Medan	A	126,300	53,100
Pematang Sianter	В	20,600	11,200
Iartung	С	5,500	26,500
Kisaran	c	4,600	7,600
Rantau Prapat	D <sup>+</sup>	9,700	7,300
Tebing Tinggi	p <sup>+</sup>	800	1,900
Tanjung Balai	D	200	5,200
Porsea	D	0	0
Total		409,000	1.83,600

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1	WATER SUPPLY FACILITIES	1,400	NAME OF		CLASS	,	l
Į	AND OTHERS	1/20	HOSPITAL	Contains wenting	J)	"	į
- 1	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	J	I	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	استحصيت بالموجوات		•

			SPACE		DR.	ICE	
	ITEM	GROUP MARK	BUYLD~ ING (M <sup>2</sup> )	WEIGHT (T)	FORETCH EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (103RP)	REMARKS
Al.	Water supply equipment Water treat- ment equipment	-		,_	~	-	
	ment equipment						
λ2.	Outside water pipes	-		-			
В.	Kitchen	K - IV	392	9,1	14,000	~	
с.	Laundry	L - IV	196	8.9	17,900	**	
D.	Solid disposal	-	-	-			
El.	Boiler plant	B - IV	168	29.5	51,000	_	
E2.	Outside steam pipes		_	6.0	7,500		
F,	Air cooler	c - (5)	-	1.7	2,200	-	
					!		
	Total	}		55,2	92,600	-	

- 2		-		A COLUMN TO SERVICE CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY	<del></del>		1
ı	WATER SUPPLY FACILITIES		NAME OF		CLASS		ı
1	AND OTHERS	2/20	HOSPITAL	Tondano	CLASS	U	İ
•	Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro		U	L	كوسونون وبالكيون والمرجر	~~~~~	,

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	ITEM	GROUP MARK	BUILD~ ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
	Water supply equipment						
AJ.	Water treat- ment equipment	<b>b</b>	•••	-		-	
A2.	Outside water pipes	-	•	~	-	1,900	
В.	Kitchen	-			-	-	
c.	Laundry		-	<b></b>	-		
D.	Solid disposal	-		_	-		Name of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State
El.	Boiler plant	an.	_	-	_	<i>-</i>	
E2,	Outside steam pipes	_	-	-	<u></u>	•	en ay natasah kanasan kan ya akad 10 kan san sankasa kanasan ka
F.	Air cooler	c - ③	_	0.6	800	-	
	n gaya an ang an Again ang an an Again an Again an Again an Again an Again an Again an Again an Again an Again						
	Total			0.6	800	1,900	

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ĺ	WATER SUPPLY FACILITIES	10/00	NAME OF	No accession and	CLASS	c	ĺ
1	AND OTHERS	3/ 20	HOSPITAL	Kotamobagu	Ulitas		
			·				,

			SPACE		PR	ICE	
	ITEM	GROUP MARK	BUYED- ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
	Water supply equipment						
A).	Water treat- ment equipment	-		-	_	-	
λ2.	Outside water pipes	-		~	<u></u>	<del>-</del>	
В.	Kitchen				-	-	
c.	Laundry	-	-	_	~	-	
D,	Solid disposal	-		•-		-	
E1.	Boiler plant	<b>&gt;-</b>			_	_	
E2.	Outside steam pipes		4-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	
F.	Air cooler	c - ③	-	0.6	800	-	generals, or A Albert & Special per Submitted Policies on collisional principal
}							
	nggara nggara nggara nggara nggara nggara nggara nggara nggara nggara nggara nggara nggara nggara nggara nggar				-		
==	Total			0.6	800		

WATER SUPPLY FACILITIES	1				3
MULDIC DOLLER LUCKITITIES	) )	NAME OF	j	]	J
AND OTHERS	1.720			CLASS	1
VIII OTHING	1 47 601	ROSPITAL	Gorontalo	#Pr4921 C	ļ
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	ITEM	GROUP MARK	SPACE BUILD- ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (103RP)	REMARKS
Al .	Water supply equipment Water treat-ment equipment	N-11-(P)-L	19.8	0.8	4,900	-	include chloring sterilization equipment for 0.6.
À2.	Outside water pipes		-		-	2,000	
β.	Kitchen		-	<b></b>			
c.	Laundry	-	-		~-	-	
D.	Solid disposal	-	-				
£1.	Boiler plant			~	_		
E2.	Outside steam pipes	-	-	~	_	~	
f.	Air cooler	c - ③		0.6	800		
	Total			1.4	5,700	2,000	

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-	WATER SUPPLY FACILITIES	5 / 20	NAME OF	Idus Kasdana	CLASS	p <sup>+</sup>
1	AND OTHERS	27.24	HOSPITAL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	}	"

			SPACE		PR	ICE	
	1тем	GROUP MARK	SPACE BUILD- ING (M2)	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
۸1.	Water supply equipment Water treat- ment equipment	-		-	_	-	
A2.	Outside water pipes	-			•		
В,	Kitchen	-		~	<b></b>	bod	
c.	Laundry	~	-	-	~		
b.	Solid disposal	-			~		
£1.	Boiler plant			-	~	_	
E2,	Outside steam pipes	-	•	~	nu.	400	
F.	Air cooler	c ~ (2)	-	0.5	600	-	
	Total			0.5	600		

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ĺ	WATER SUPPLY FACILITIES	6/20	NAME OF	Uiuma Pandang	CLASS A
	AND OTHERS	0/20	HOSPITAL	Ujung Pandang	1
ı	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	البرحسحساد			

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	ITEM	GROUP MARK	BUILD- ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
A1.	Water supply equipment Water treat- ment equipment	W - IV - T	38.5	4.6	9,700	30,000	
A2.	Outside water				_	7,100	
В.	Kitchen	K - IV	392	9.1	14,000	-	
c.	Laundry	l, ~ IV	196	8.9	17,900		
D.	Solid disposal	~	<u>.</u>		_		
ε1.	Boiler plant	B - IV	168	29.5	51,000		
E2.	Outside steam pipes		~	8.5	12,000	-	
F.	Air cooler	c - ⑥	-	1.7	2,200	-	
	Total			62.3	106,800	37,100	

						1
NATER SUPPLY FACILITIES	7 (00	NAME OF		CLASS	_	
AND OTHERS	7/20	HOSPITAL	Pare-Pare			
				هدجسسمبدين وجيدا	~	1

			SPACE		PR	ICE	
	ITEM	GROUP MARK	SPACE BUILD- ING (M2)	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
AJ.	Water supply equipment Water treat- ment equipment	W-1- (a)-T	19.8	0.8	3,800	4,500	include piping for outside of the site
A2.	Outside water					2,700	
В.	Kitchen	-			-	mar.	
c.	Laundry	-	_		-		
D.	Solid disposal		•	-	-		
£1.	Boiler plant			_			
Ε2,	Outside steam pipes	-				-	
F.	Air cooler	c - (3)	_	0.6	800	-	
	Total			1.4	4,600	7,200	

-		-			II. ,	, -	
١	WATER SUPPLY FACILITIES	<b>l</b>	NAME OF		CLASS	D <sub>+</sub>	ı
l	AND OTHERS	8/20	BOSPITAL	Palopo	CLASS	, ,	l
1		1	II	)	المحصومة ومحصوصها		

		***************************************	SPACE BUYLD-	uga eum	PR	ICE	
	ITEM	GROUP MARK	BUYLD- ING (M <sup>2</sup> )	(T)	FOREIGN EXCUANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
Λl.	Water supply equipment Water treat- ment equipment	W-I-(a)-T	19.8	0.8	3,800	4,500	
A2.	Outside water pipes		-			1,800	
В.	Kitchen		_	-		-	
c.	Laundry		-	-	_		
ρ,	Solid disposal		-		<b></b>	-	
£1.	Boiler plant		_	-	••	-	
E2.	Outside steam pipes	-		-	*	-	
F,	Air cooler	c - (2)		0.5	600	_	
<u> </u>	Total			1.3	4,400	6,300	

· MANAGEMENT CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTO			·····································		
WATER SUPPLY FACILITIES	0/20	NAME OF	6	CLASS	<u>,</u> +
AND OTHERS	9/20	HOSPITAL	Soppeng	!!	D)

<del></del> -			SPACE		PR	[CE	]
	ITEM	GROUP MARK	SPACE BUILD- INC (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCUANGE (10 <sup>3</sup> ven)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
Al.	Water supply equipment Water treat- ment equipment	₩-1-(a) -T	19.8	0.8 11.5	3,800 4,000	4,500	bottom Water Tank Lorry
A2,	Outside water pipes					1,400	
В.	Kitchen	-			~	_	
c.	Laundry		-		-		
D,	Solid disposal			_	_		
El.	Boiler plant	-	_	-	_		
ε2.	Outside steam pipes	-	~	-	_	-	
F,	Air cooler	c - (2)		0.5	600		
· · · · · · · · · · · · · · · · · · ·							
	Total			12.8	8,400	5,900	

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WATER SUPPLY FACILITIES	10/20	NAME OF	Terriawaru	CLACE	D+	1
AND OTHERS	10/20	HOSPITAL	1CI Edward	CLASS		
· · · · · · · · · · · · · · · · · · ·			A service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the serv			

[	ITEM	Chora Many	SPACE BUILD-	WEIGHT	PR FOREIGN	ICE LOCAL	REMARKS
		GROUP MARK	ING (M2)	(T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	CURRENCY (10 <sup>3</sup> RP)	KEPAKA
А1.	Water supply equipment Water treat— ment equipment	W-1 (a) (b) -T	19.8 19.8	0.8 0.8	3,800 3,800		use PAM and Well for PAM, use the existing water tank
Α2.	Outside water pipes		-		-	2,900	
В.	Kitchen				-		
С.	Laundry	-	-	<b></b>	_		
D.	Solid disposal	-			-		
El.	Boiler plant	~	_	<u>-</u>		-	
E2.	Outside steam pipes		-	-		<u></u>	
F.	Air cooler	c - (2)	<b></b>	0.5	600		
							;
	Total			2.1	8,200	2,900	

				M		•
1	WATER SUPPLY FACILITIES	NAME OF	731 6	CLASS	_+	l
1	AND OTHERS	HOSPITA	Elim Rantepao	CLASS	יי	l
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	<del></del>	[	SPACE		ad	ICE	
	ltem	GROUP MARK	BUILD- ING (N2)	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
A1.	Water supply equipment Water treat- ment equipment	W-I-(a)-T	19.8	0.8	3,800	4,500	
λ2.	Outside water pipes		-	-	~	1,900	
В,	Kitchen	-	-				
с.	Laundry	-	~		-	_	
D.	Solid disposal	_			na .		
E1.	Boiler plant	-		-		<del></del>	
E2.	Outside steam pipes	-	-			-	
F.	Air cooler	c - (2)		0.5	600	_	
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s						
	Total			1.3	4,400	6,400	

WATER SUPPLY FACILITIES		NAME OF		01.160		1
AND OTHERS	1.2/20	HOSPITAL	Bantaeng	CLASS	D	
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			SPACE	WEIGHT	PR	ICE	
I	TEM	GROUP MARK	BUYED- ING (M <sup>2</sup> )	(T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL	REMARKS
			$(M^2)$	``'	(10 <sup>3</sup> yen)	CURRENCY (103RP)	
Wat	er supply ipment			· · · · · · · · · · · · · · · · · · ·			
equ	ipment	W-I-(b)-T	19.8	0.8	3,800	_	
"' Wat	er treat- t equipment	" ' 0 - 1	1.9.0	0.0	3,000	_	
	e equipment			<del></del>			
Outs	side water						
A2. pipe	es .			-	-	1,200	
-							
					;		
B. Kite	chen	_		_	_		!
4) • •							
				~	<del></del>	† <del></del>	
c. Lau	ndry		]			! 	
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	posal	-	-	-	-		
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El. Boil				_	_	-	
il. plai	n c						
<u>}</u>			h		······································		
: F Z	side steam	İ		ļ			
"" pipe	es	-	-		***	_	
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F. Air	cooler	c - (1)	-	0.2	200		
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Tota	i l			1.0	4,000	1,200	
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AND OTHERS 13/20 HOSPITAL Medan CLASS A	 WATER SUPPLY	FACILITIES		NAME OF					Ì
	AND OTHERS		13/20	HOSPITAL	Medan	[CLΛ	SS	A	l

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	j		SPACE	LID YOUR	PR	ICE	<u> </u>
	ITEM	GROUP MARK	BUYLD- ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
Wa equ Al. Wa me	ter supply uipment ter treat- nt equipment	W - V - T	38.5	4.9	10,800	45,000	
. Ou	tside water pes				- -	8,100	
в. Кі	tchen	K - V	510	12.1	20,000		
C. La	undry	I V	224	13.0	23.600	-	
	lid sposal	_	-	~	_	· <del>-</del>	
	iler ant	B - V	168	32.9	55,000	**	
: F 2	tside steam pes			10.0	14,500	<u>-</u>	
F. A1	r cooler	c - ①	_	1.8	2,400	_	
							~~~
To	tal			74.7	126,300	53,100	

WATER SUPPLY FACILITIES		NAME OF		01.100	
AND OTHERS	14/20	HOSPITAL	Pematang Siantar	CLASS	В
			i	السحيد حجيجاته	d

٢	**************************************	<del>                                      </del>	SPACE	<u> </u>	PR	ICE	
	ITEM	GROUP MARK	BUILD- ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (103RP)	REMARKS
A1.	Water supply equipment Water treat- ment equipment				**	-	
	ment equipment						
122	Outside water pipes		-		μ-	11,200	
8.	Kitchen	K - III	336	5.9	8,000	-	
с.	Laundry	r - III	143	5.7	11,000	•	
D,	Solid disposal	<u>-</u>	77-	-		<del></del>	
	Boiler plant	-	ı			pain.	
1 7 /	Outside steam pipes	<del>-</del>		_	-	_	
۴.	Air cooler	c - (4)	<b></b>	1.2	1,600	_	
	Total			12.8	20,600	11,200	

WATER SUPPLY FACILITIES	15.400	NAME OF	(15	CLASS	
AND OTHERS	721.50	HOSPITAL	Tartung	]]	
A STATE OF THE PROPERTY OF THE		المجمعه والمراجع والم			البرمر ويروب ومحمد سيمال

	· · · · · · · · · · · · · · · · · · ·		SPACE		PR	ICE	
	ITEM	GROUP MARK	SPACE OF BUILD- ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
٨1.	Water supply equipment Water treat- ment equipment	W-11-(a)-T	19.8	0.8	4,700	-	use the existing water tank
A2.	Outside water pipes		-		<u>-</u>	26,500	include viping for outside of site
R.	Kitchen		-	~			
c.	Laundry	-				**	
D.	Solid disposal	_		-	_	-	
E1.	Boiler plant	-	~	-	_		
E2.	Outside steam pipes	_	No.				
F,	Air cooler	c - ③	-	0.6	800	-	
	Total			1.4	5,500	26,500	

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WATER SUPPLY FACILITIES	16/20	NAME OF	***	CLACC	
AND OTHERS	10/20	HOSPITAL	Kisaran	CLASS	C
and the same of th	L	L		<u>!'</u>	L

	BC-BT/PROFILE/ABACHURAPHU/ABAHAHAHAHAHAHAHAHAHA		TSPACE	J	Dr.	ICE	
	ITEM	GROUP MARK	OF BUILD- ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> ven)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
A1.	Water supply equipment Water treat- ment equipment	W-I- (a)-T	19.8	0.8	3,800	4,500	
A2.	Outside water pipes		-	<b>,-</b> -		3,100	
В.	Kitchen	_					; ; ;
с.	Laundry			<u>.</u> .		_	
D.	Solid disposal	-			-		
El.	Boiler plant		~				
ε2.	Outside steam pipes		-	•			
F.	Air cooler	c - ③	-	0.6	800		
				way, and was desired and the second			
	Total			1.4	4,600	7,600	

	MATER CHOOLY	FACILITIES	3				····	•
	MATER SOLITI	TROTTLIES	<b> </b>	NAME OF		- 11	.د. ا	ı
	AND OTHERS		11 77 201	110000000	Rantau Prapat	CLASS	n'	Ĺ
	MID OTHERS		,	HOSPITAL	Kunena reapac	1000	ן עון	Ĺ
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		, Marian and American and Ameri					
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	ITEM	GROUP MARK	BUILD- ING (M2)	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
AJ	Water supply equipment 'Water treat-ment equipment	W-I-©-T	28.8	1.2 11.5	5,100 4,000	4,500	bottom Water Tank Lorry
12	Outaldo natos		-			2,800	
5.	Kitchen	_	•			_	
c.	Laundry	-	_		-	~	
D.	Solid disposal	_			_	-	
El.	Boiler plant				<del>-</del>		
Ε2.	Outside steam pipes	-	-	-	_		
f.	Air cooler	c - ②	<b></b> -	0.5	600		
						· ·	
	lotal			13.2	9,700	7,300	

WATER SUPPLY FACILITIES AND OTHERS		18/20	NAME OF HOSPITA		g Tinggi	CLASS D	
	ITEN	GROUP MARK	SPACE BUILD- ING (M²)	WEIGHT (T)	PR FOREIGN EXCUANGE (10 <sup>3</sup> yeu)	ICE LOCAL CURRENCY	REMARKS
A).	Water supply equipment Water treat- ment equipment	,	3	0.1	(10 <sup>3</sup> yen) 200	(10 <sup>3</sup> RP) -	only chlorine sterilization equipment
12.	Outside water pipes		_	_ ,		1,900	
ß.	Kitchen	-		~		-	
c.	Laundry	-	_		-		
D.	Solid disposal	t-a	<b></b>		gra.	Mr.	
El.	Boiler plant		-	-	-		
E2.	Outside steam pipes	-		-	<b></b>		
F.	Air cooler	c - 2		0.5	600		
			anning was prompted to the decimal				
	Total			0.6	800	1,900	

	WATER SUPPLY FACILITIES AND OTHERS	19/20	NAME OF HOSPITAL	Tanjung Balai	CLASS	D	l
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		SPACE	I	PR	CE	
ITEM	GROUP MARK	BUYLD- ING (M²)	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> ven)	LOCAL CURRENCY (10 <sup>3</sup> RP)	REMARKS
Water supply equipment  /1. Water treat- ment equipment	-	-	1	-		
A2. Outside water pipes			<b>-</b>		5,200	include piping for outside of the site
B. Kitchen		-	B.A.		-	
C. Laundry		-	•	_		
D. Solid disposal	-			<u> </u>		
Boiler El. plant	-	-	_		<u>.</u> .	
E2. Outside steam		-		-		
F. Air cooler	c ~ (1)	_	0.2	200	are.	
Total			0.2	200	5,200	

WATER SUPPLY FACILITIES	20/20	NAME OF	Porsea	CLASS	D	ĺ
AND OTHERS	20,20	HOSPITAL	TOTACK			ļ

	<del></del>	<u> </u>	SPACE		PR'	ICE	
	ITEM	GROUP MARK	BUYLD- ING (M <sup>2</sup> )	WEIGHT (T)	FOREIGN EXCHANGE (10 <sup>3</sup> yen)	LOCAL CURRENCY (103RP)	REMARKS
λ1.	Water supply equipment Water treat- ment equipment	,	•		pa-		
A2.	Outside water pipes			-		-	
В,	Kitchen	<u></u>		-	<u>-</u>	_	
c.	Laundry	-	_	<b></b>			
D.	Solid disposal		-		-	~	
El.	Boiler plant	-	-		_	-	
Е2.	Outside steam pipes				_	_	
F.'	Air cooler	c - (1)				_	
	·						
	Total			-	_	-	

## 6-6 The others

- To change the cost of Freight and Insurance from 10 percent to 6 percent of the cost of equipment and facilities.
- 2) To change the cost of contingency from 10 percent to 5 percent of the cost of equipment and facilities.

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