

Supplementary Report  
for  
Hospital Facilities Improvement Project  
Republic of Indonesia

Vol. 3

Aug. 1978

Japan International Cooperation Agency

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SUPPLEMENTARY REPORT  
FOR  
HOSPITAL FACILITIES IMPROVEMENT PROJECT  
REPUBLIC OF INDONESIA

VOLUME 3

AUGUST 1978

JAPAN INTERNATIONAL COOPERATION AGENCY

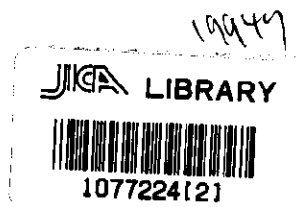




マイクロ  
フィルム作成

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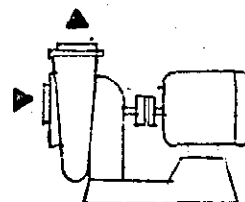
## **5 WATER SUPPLY AND OTHERS**

5-1 Water supply-facilities (A1)

A1	WATER SUPPLY - WATER SUPPLY EQUIPMENT	1/34	EQUIPMENT LIST	1/10
----	---------------------------------------	------	----------------	------

NAME	Water Lifting Pump
------	--------------------

TECHNICAL DATA	
Type	: Horizontal multistage pump
Handling fluid	: Clean water (Temperature 0 ~ 40°C PH 6 ~ 9)
Suction side	: Suction operation only (Lift -- 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)
1 - I	50φ × 200 ℓ/min × 30m × 3.7kW × 2 sets	0.4 0.52	3.7
1 - II	80φ × 400 ℓ/min × 30m × 5.5kW × 2 sets	0.57 0.74	5.5
1 - III	100φ × 1000 ℓ/min × 30m × 11kW × 2 sets	0.9 1.17	11
1 - IV	125φ × 1300 ℓ/min × 30m × 15kW × 2 sets	1.2 1.56	15
1 - V	125φ × 2000 ℓ/min × 30m × 18.5kW × 2 sets	1.25 1.62	18.5
REMARKS			

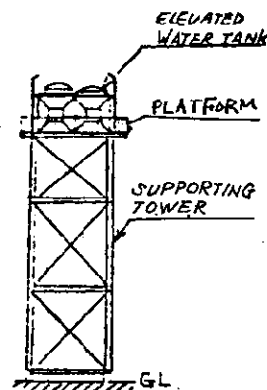
Weight; Top - Gross shipping weight  
Bottom - Net weight



A1	WATER SUPPLY - WATER SUPPLY EQUIPMENT	2/34	EQUIPMENT LIST	2/10
----	---------------------------------------	------	----------------	------

NAME	Elevated Water Tank (FRP)
------	---------------------------

TECHNICAL DATA	
* Elevated Water Tank	
Material: FRP Panel	
Type	: Rectangular type with partition wall (double compartment type) made by unit panel (1000mm × 1000mm)
Assembly method: Job-site bolt construction type	
Accessory:	Manhole ( 600) 2 p.c.s.
	Inner ladder 2
	Outer ladder 2
	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 "



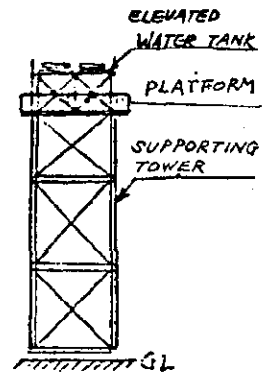
ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
2 - I	2,000 <sup>L</sup> × 2,000 <sup>W</sup> × 2,000 <sup>H</sup>	4.78 10.78	-
2 - II	2,500 × 3,000 × 2,000	5.48 17.48	-
2 - III	3,000 × 3,000 × 2,000	6.09 21.09	-
2 - IV	3,000 × 4,000 × 2,000	6.3 26.3	-
2 - V	3,000 × 4,000 × 3,000	8.57 38.57	-
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

A1	WATER SUPPLY - WATER SUPPLY EQUIPMENT	3/34	EQUIPMENT LIST	3/10
----	---------------------------------------	------	----------------	------

NAME	Elevated Water Tank
------	---------------------

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 1000mm)
Assembly method:	Job-site bolt construction type
Accessory:	Manhole ( 600) 2 p.c.s. Inner ladder 2 Outer ladder 2 Air vent (with insect screen) 2 Nozzle (optional size) 8 Electrode base (with cover) 2
* Supporting Tower	
	Angle steel structure with platform 10mm
* 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)
3 - I	2,000 <sup>L</sup> × 2,000 <sup>W</sup> × 2,000 <sup>H</sup>	5.32 11.32	-
3 - II	2,500 × 3,000 × 2,000	6.21 18.21	-
3 - III	3,000 × 3,000 × 2,000	6.92 21.92	-
3 - IV	3,000 × 4,000 × 2,000	7.27 27.27	-
3 - V	3,000 × 4,000 × 3,000	9.83 39.83	-
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

A1	WATER SUPPLY	WATER SUPPLY - EQUIPMENT	4/34	EQUIPMENT LIST	4/10
----	--------------	--------------------------	------	----------------	------

NAME	Meter Lifting Pump
------	--------------------

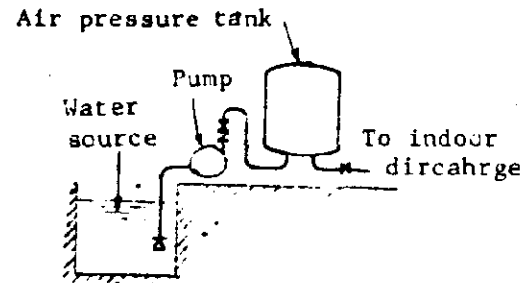
**TECHNICAL DATA**

**Equipment list**

Equipment name; Pressure Tank Unit

Standard specifications

**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; suction operation only (Lift - within -6 meters)
- 4) Power supply: 3 phase, 220 volts, 50 Hz

**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.	SPECIFICATION							WEIGHT (T)	ELECTRIC CAPACITY (KW)	
	Water Supply l/min	Starting pressure kg/cm <sup>2</sup>	Stop pressure kg/cm <sup>2</sup>	Tank m <sup>3</sup>	Pump					
					Diameter	power kw	Number of installation			
4 - I	200	3.0	4.1	1.2	50	3.7	2	0.94	2.14	3.7
4 - II	400	4.0	6.3	2.3	50	5.5 x 2	3	2.51	4.81	5.5 x 2
4 - III	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										

Weight; Left - Gross shipping weight  
Right - Net weight

A1	WATER SUPPLY - WATER SUPPLY EQUIPMENT	5/34	EQUIPMENT LIST	5/10
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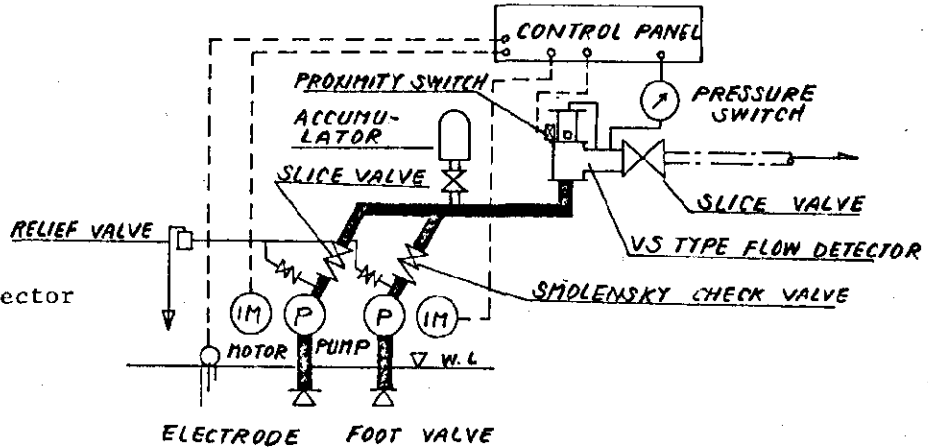
NAME	Tankless Direct Pump Unit
------	---------------------------

TECHNICAL DATA

- Pumps are started or stopped by water quantity or pressure.
  - Case I,II ; The pump is started by pressure switch. The pump is stopped by proximity switch at V.S type flow detector.
  - Case III,IV,V; No.1 pump and No.2 pump are started by pressure switch. No.2 pump is stopped by pressure switch at the V.S type flow detector, and No.1 pump is stopped by proximity switch.

2) Item

- 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
- magnets

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
5 - I	65° x 50 x 200 <sup>l</sup> /min x 30m x 3.7 KW x 2	0.54	3.7
	AUTOMATIC OLTERNATE OPERATION 50°	0.32	
5 - II	65° x 50° x 400 <sup>l</sup> /min x 30m x 5.5 KW x 2	0.56	5.5
	AUTOMATIC ALTERNATE OPERATION 50°	0.33	
5 - III	80° x 500 <sup>l</sup> /min x 40m x 7.5 KW x 3 (SPARE 1)	3.20	7.5 x 2
	AUTOMATIC ALTERNATE OPERATION AUTOMATIC PARALLEL OPERATION 100°	2.00	
5 - IV	100° x 650 <sup>l</sup> /min x 40m x 11 KW x 3 (SPARE 1)	4.27	11 x 2
	AUTOMATIC ALTERNATE OPERATION, AUTOMATIC PARALLEL OPERATION 100°	2.70	
5 - V	125° x 1000 <sup>l</sup> /min x 40m x 15 KW x 3 (SPARE 1)	4.57	15 x 2
	AUTOMATIC ALTERNATE OPERATION AUTOMATIC PARALLEL OPERATION 100° x 125°	2.90	
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

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

NAME	Water Lifting Pump
------	--------------------

TECHNICAL DATA

Type : Horizontal centrifugal pump  
 Handling fluid : Clean water (Temperature 0 ~ 40°C PH6 ~ 9)  
 Suction side : Suction operation only (Lift -- within -6 meters)  
 Installation site: Indoor  
 Accessory motor : Drip-proof, 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

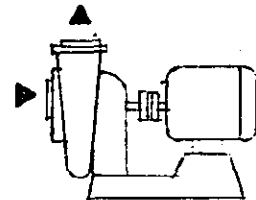
Accessories (per one set)

- 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	50 $\phi$ $\times$ 200 $\ell$ /min $\times$ 10 m $\times$ 1.5 kw $\times$ two sets	0.27 0.30	1.5
6 - II	65 $\phi$ $\times$ 400 $\ell$ /min $\times$ 10 m $\times$ 1.5 kw $\times$ two sets	0.30 0.33	1.5
REMARKS			

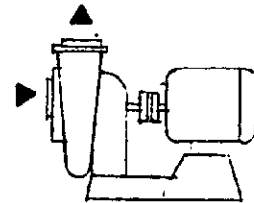
Weight; Top - Gross shipping weight  
 Bottom - Net weight

A1	WATER SUPPLY - WATER SUPPLY EQUIPMENT	7/34	EQUIPMENT LIST	7/10
----	---------------------------------------	------	----------------	------

NAME	Water Lifting Pump
------	--------------------

TECHNICAL DATA

Type : Horizontal multistage pump  
 Handling fluid : Clean water (Temperature 0 ~ 40°C PH 6 ~ 9)  
 Suction side : Suction operation only (Lift -- 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)
7 - I	65 φ × 400 l/min × 55 m × 7.5 kw × two sets	0.69 0.76	7.5
REMARKS			

Weight; Top - Gross shipping weight  
 Bottom - Net weight

A1	WATER SUPPLY - WATER TREATMENT EQUIPMENT	8/34	EQUIPMENT LIST	8/10
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NAME	Chlorine Disinfectant Injector
------	--------------------------------

TECHNICAL DATA

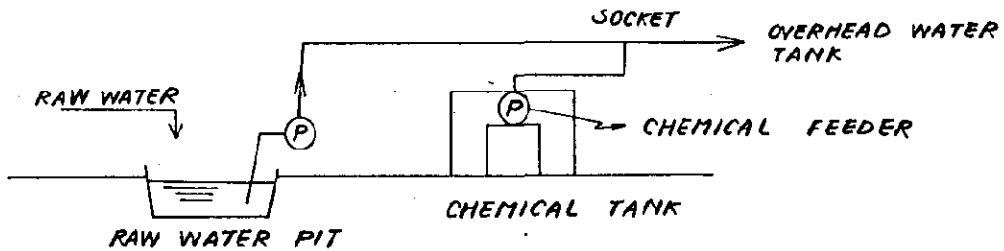
Continuous chemical feeder

Components : Fixed quantity pump, chemical tank

Spare parts: Diaphragm below 2  
Pump head 1  
Residual chlorine measure 1  
NaCl O 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 : Polivinyll Chloride : 368 mm × 368 mm × 412 mmH	0.06 0.1	0.06
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

A1	WATER SUPPLY	WATER TREATMENT EQUIPMENT	9/34	EQUIPMENT LIST	9/10
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NAME	Filter
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TECHNICAL DATA

High flow filter

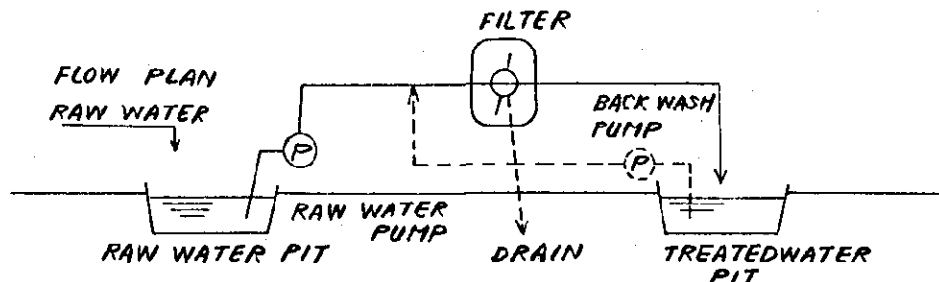
Terms : Raw water quality Turbidity 50°  
 Treated water quality " 5°  
 Flow rate LV = 6 m/Hr  
 Back wash rate LV =24 m/Hr

Components : Raw water pump, backs wash pump, flow meter, single control valve, shell, operation panell.

Spare parts : Filter media 1,000 l  
 Sheet packin 1  
 Gauge tube 2

Work division: Fitting guide only

Flow plan



ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
9	Flow water quantity: 6 m <sup>3</sup> /Hr, 30 m <sup>3</sup> /Day Filter dimation : 1,150 ϕ × 2,450 H Main pipe diagram : Filter media : 1,000 l Raw water pump : 40 ϕ × 0.1 m <sup>3</sup> /min × 1.5 kw Back wash pump : 65 ϕ × 0.4 m <sup>3</sup> /min × 2.2 kw Motor : 220 V × 50 Hz × three phase Operation panell : 250mm × 300mm × 200mm	5.0 4.5	3.7
REMARKS			

Weight; Top - Gross shipping weight  
 Bottom - Net weight



A1	WATER SUPPLY - WATER TANK LORRY	10/ 34	EQUIPMENT LIST	10/ 10
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NAME	Water Tank Lorry
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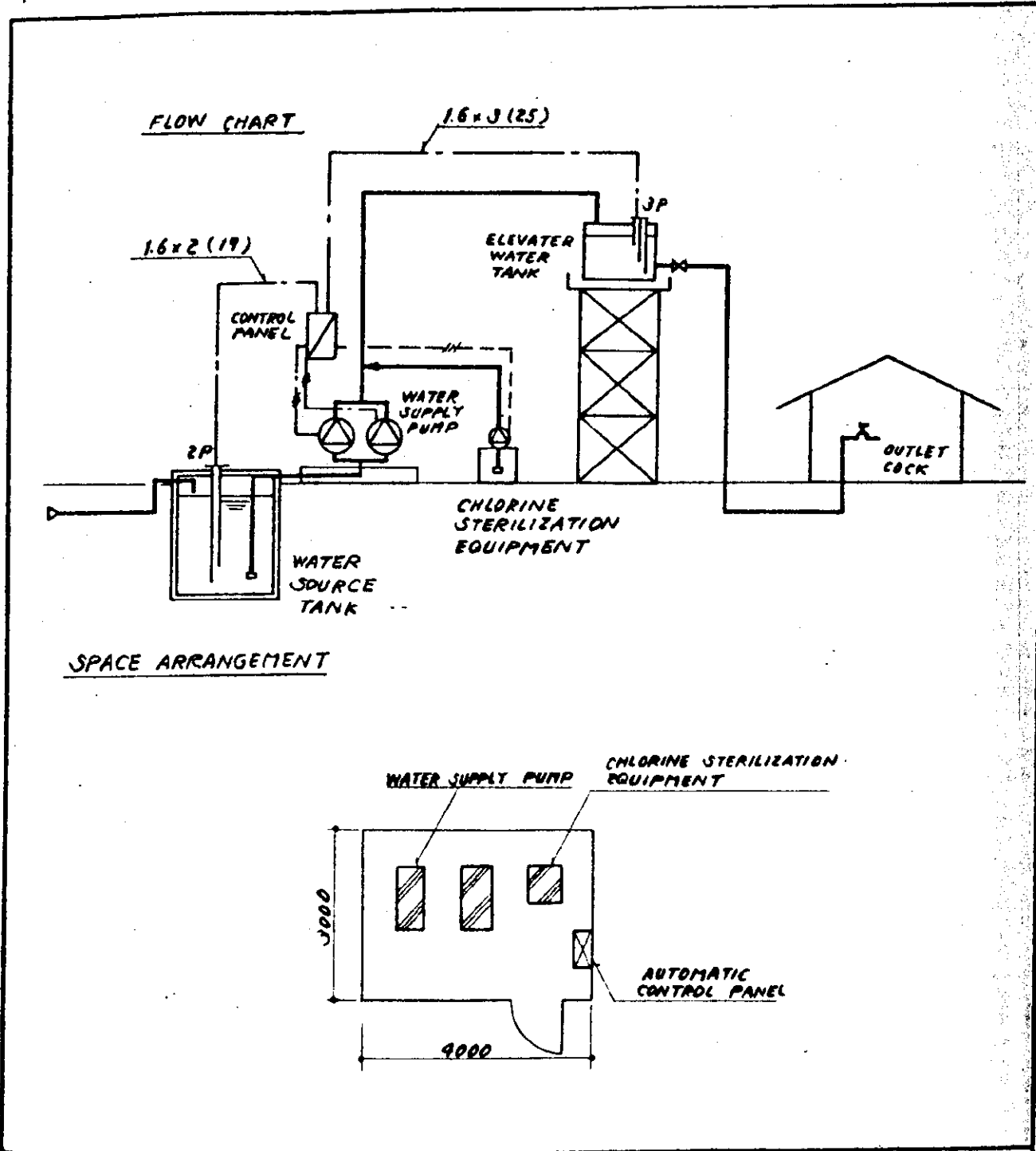
TECHNICAL DATA

- o Body Engine Type : 4-cycle, direct-injection, water cooled, in-line diesel engine
- Number of cylinders : 6
- Total Piston Displacement: 6,000 cc (min.)
- Max. Gross Output (SAE) : 140 HP at 2,800 rpm
- Wheelbase : 4,300 mm (min.)
- Number of tires : 4 x 2
- Optional Equipment : Large size radiator  
Air cleaner  
Exhaust brake  
Water level, overheat, engine overrun warning devices  
Tachometer  
Cigarette lighter
- o Tank Max. loading capacity : 6,000 l
- Thickness : 3.2 mm
- Pump : 500 l/min x 2 kg/cm<sup>2</sup>

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
		11.5	
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

A1	Water supply plant	Water supply equipment and Water treatment equipment	11/34	Equipment List by Group Code	1/24	Group Code	W - I - a - H
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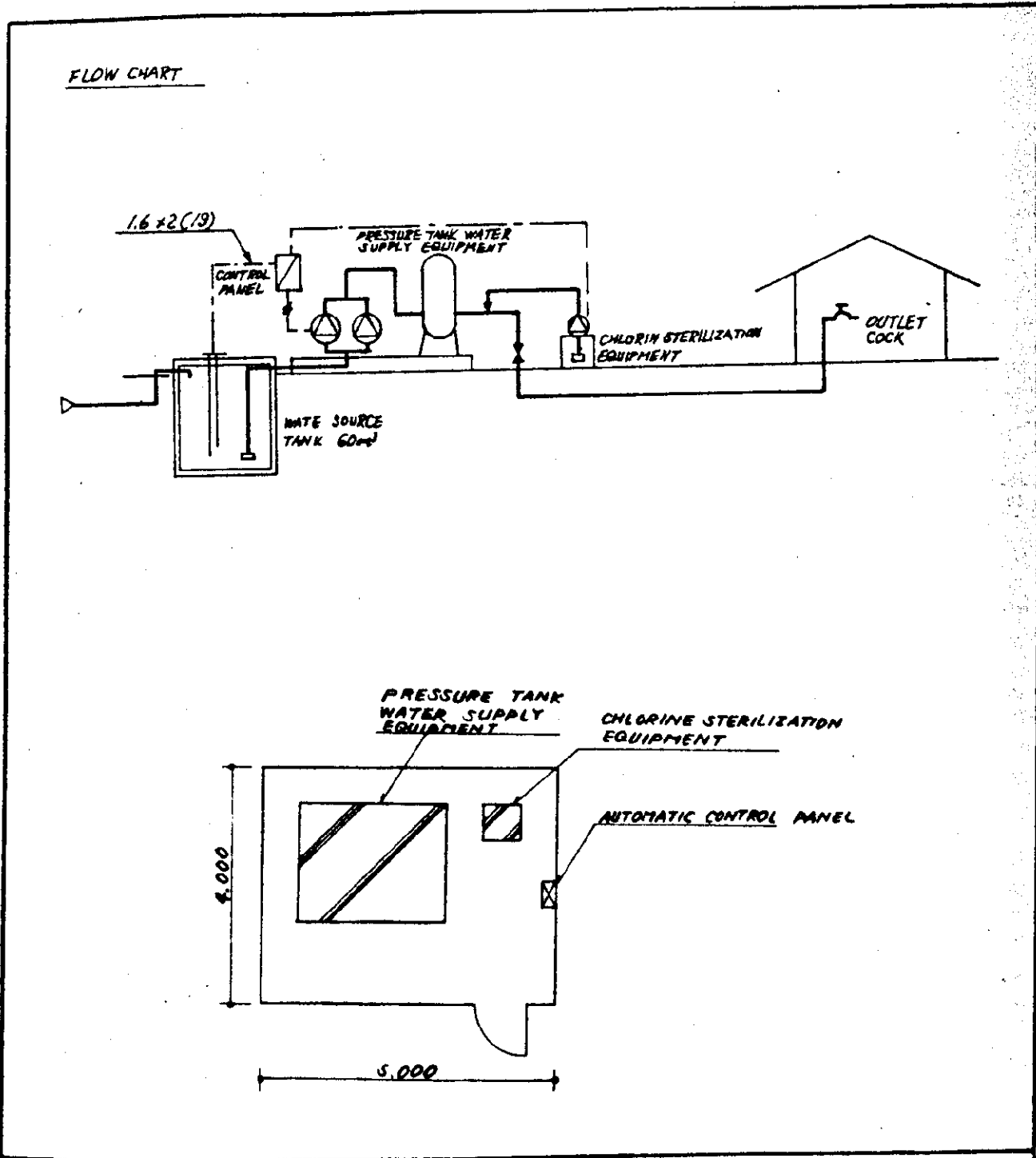


Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Water supply pump	1	1-I	0.4	3.7	
Elevated water tank	1	2-I	4.78	-	
Chlorine sterilization	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.15	-	
Sub-Total:					
Erection fee	1	-	-	-	
<b>Total</b>			5.39	3.76	

Building area	Total weight	12 M <sup>2</sup>	Founda-tion	1,100x500x200Mx2 600x600x200Mx1
Gross weight		5.39t		
Electric capacity		3.76kW		

Erection fee includes the construction charge of automatic control equipment.

A1	Water supply plant - Water supply equipment and Water treatment equipment	12/34	Equipment List by Group Code	2/24	Group Code	W - I - a - P
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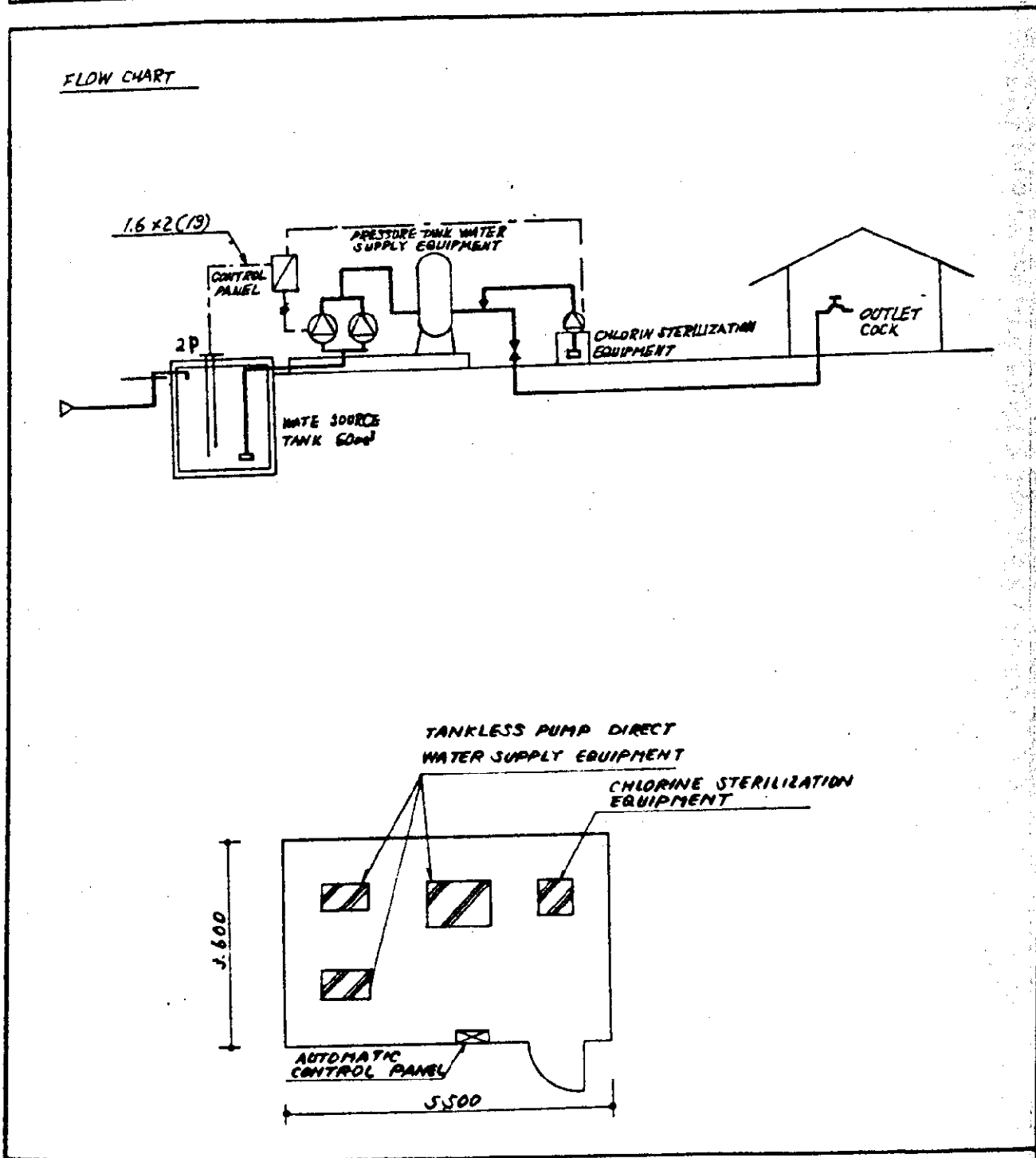


Equipment List					
Name of Equipment	Qty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Pressure tank water supply equipment	1	4.1	0.94	3.7	
Chlorine sterilization equipment	1	8-C	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.15	-	
Sub-Total:					
Erection fee	1				
Site management fee	1				
Sub-Total:					
<b>Total</b>			1.15	3.76	

Building area	Pressure tank water supply equipment chamber	20 M <sup>2</sup>	Founda-tion	2,500x2000x200Mx1 600x600x200Mx1	
Gross weight		1.15t			
Electric capacity		3.76kW			

Erection fee includes the consturction charge of automatic control equipment.

AL	Water supply plant	Water supply equipment and Water treatment equipment	13/34	Equipment List by Group Code	3/24	Group Code	W - I - a) - T
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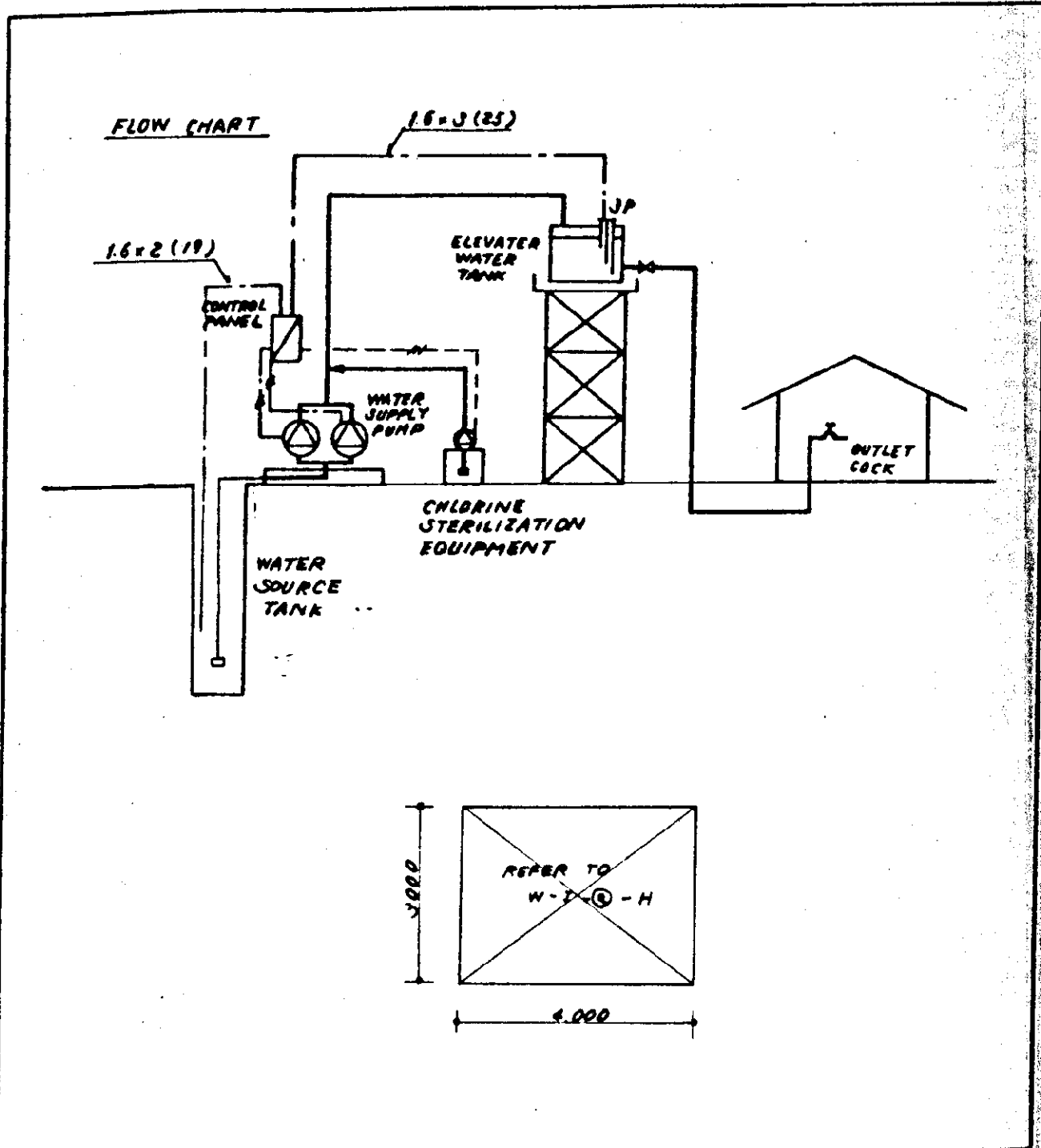


Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Tankless pump direct water supply equipment	1	5-I	0.54	3.7	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1		0.15	-	
Sub-Total:					
Erection fee	1				
Site management fee	1				
Sub-Total:					
<b>Total</b>		0.75	3.76		

Building area	Tankless pump chamber	19.8 M <sup>2</sup>	Founda- tion	800x500x200Mx2 11,000x800x200Mx1	
Gross weight		0.75 <sup>t</sup>		1,000x600x200Mx1	
Electric capacity		3.76		600x600x200Mx1	

Erection fee includes the construction charge of automatic control equipment.

Al	Water supply plant - Water supply equipment and Water treatment equipment	14/34	Equipment list by Group Code	4/24	Group Code	W - I - a - H
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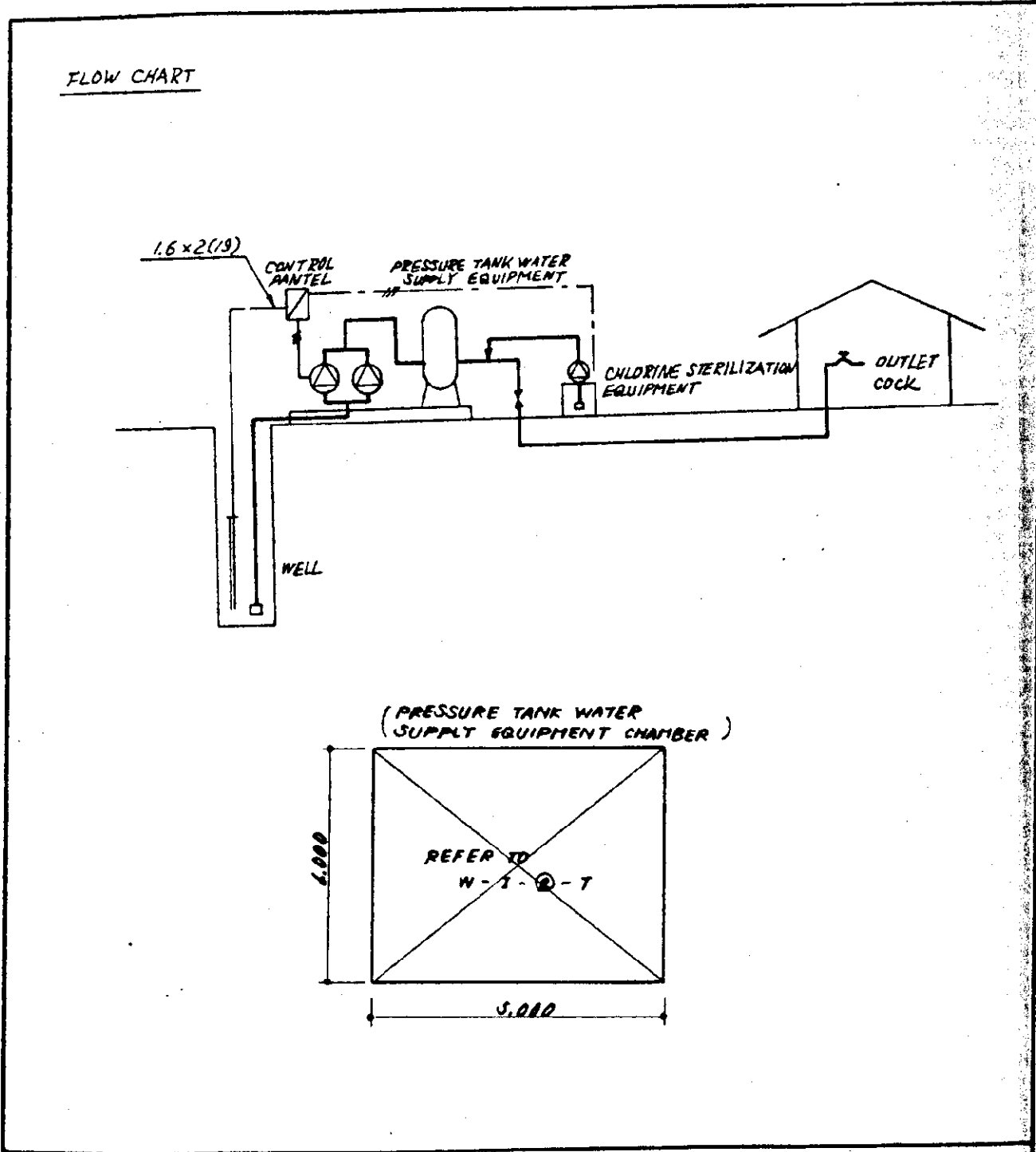


Equipment list					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water supply pump	1	1-I	0.4	3.7	
Elevated water tank	1	2-I	4.78	-	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1		0.15	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			5.39	3.76	

Building area	Pump chamber	12 M <sup>2</sup>	Founda-tion	1,100x500x200Mx2 600x600x200Mx1
Gross weight		5.34t		
Electric capacity		3.76kW		

Erection fee includes the construction charge of automatic control equipment.

A1	Water supply plant - Water supply equipment and Water treatment equipment	15/34	Equipment list by Group Code	5/24	Group Code	W - I - b) - P
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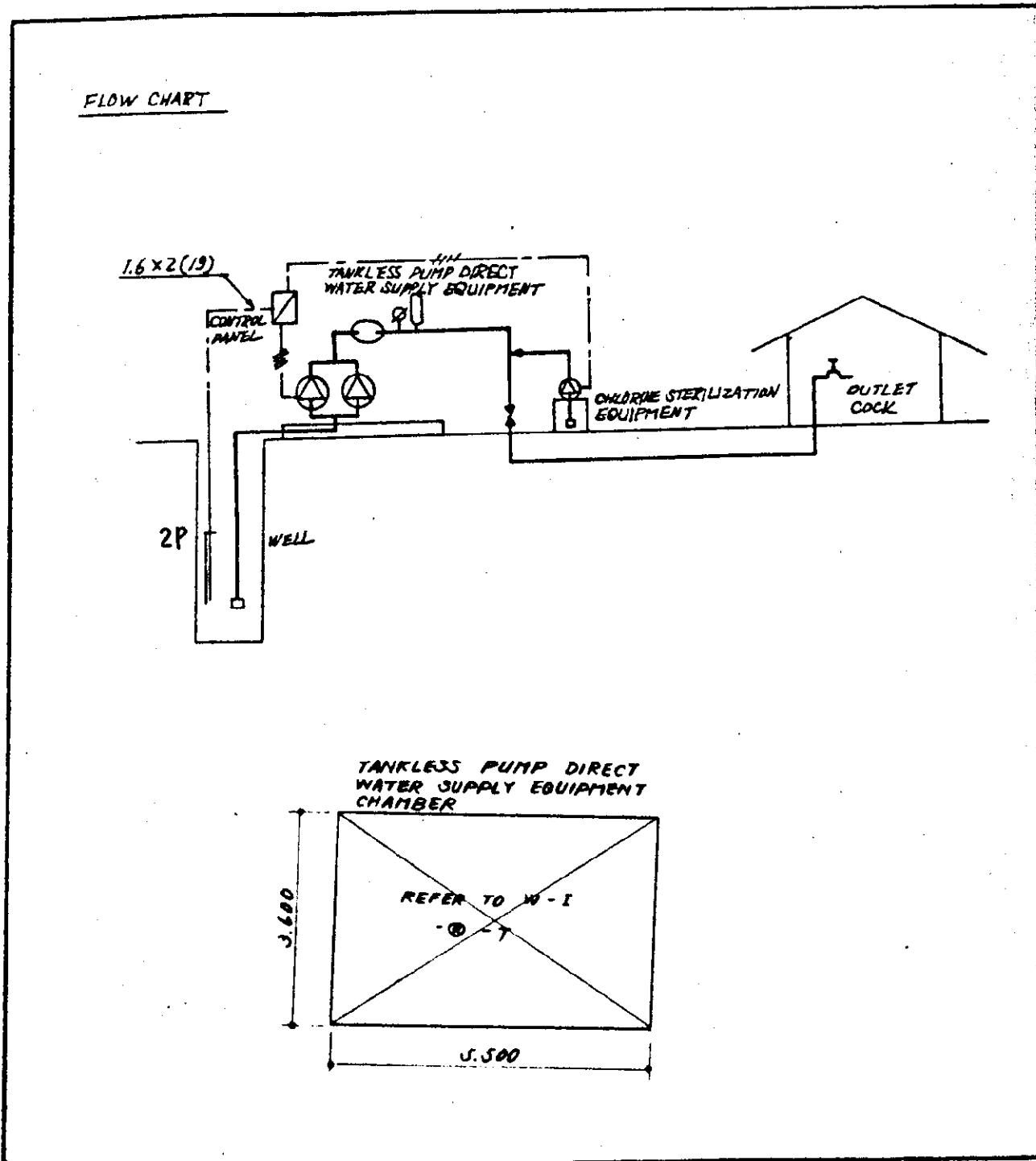


Equipment list					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Pressure tank water supply equipment	1	4-I	0.94	3.7	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1		0.15	-	
Sub-Total:					
Erection fee	1				
Site management fee	1				
Sub-Total:					
<b>Total</b>			1.15	3.76	

Building area	Pressure tank water supply equipment chamber	20 M <sup>2</sup>	Founda-tion	2,500x2,000x200Mx1 600x600x200Mx1	
Gross weight		1.15t			
Electric capacity		3.76kW			

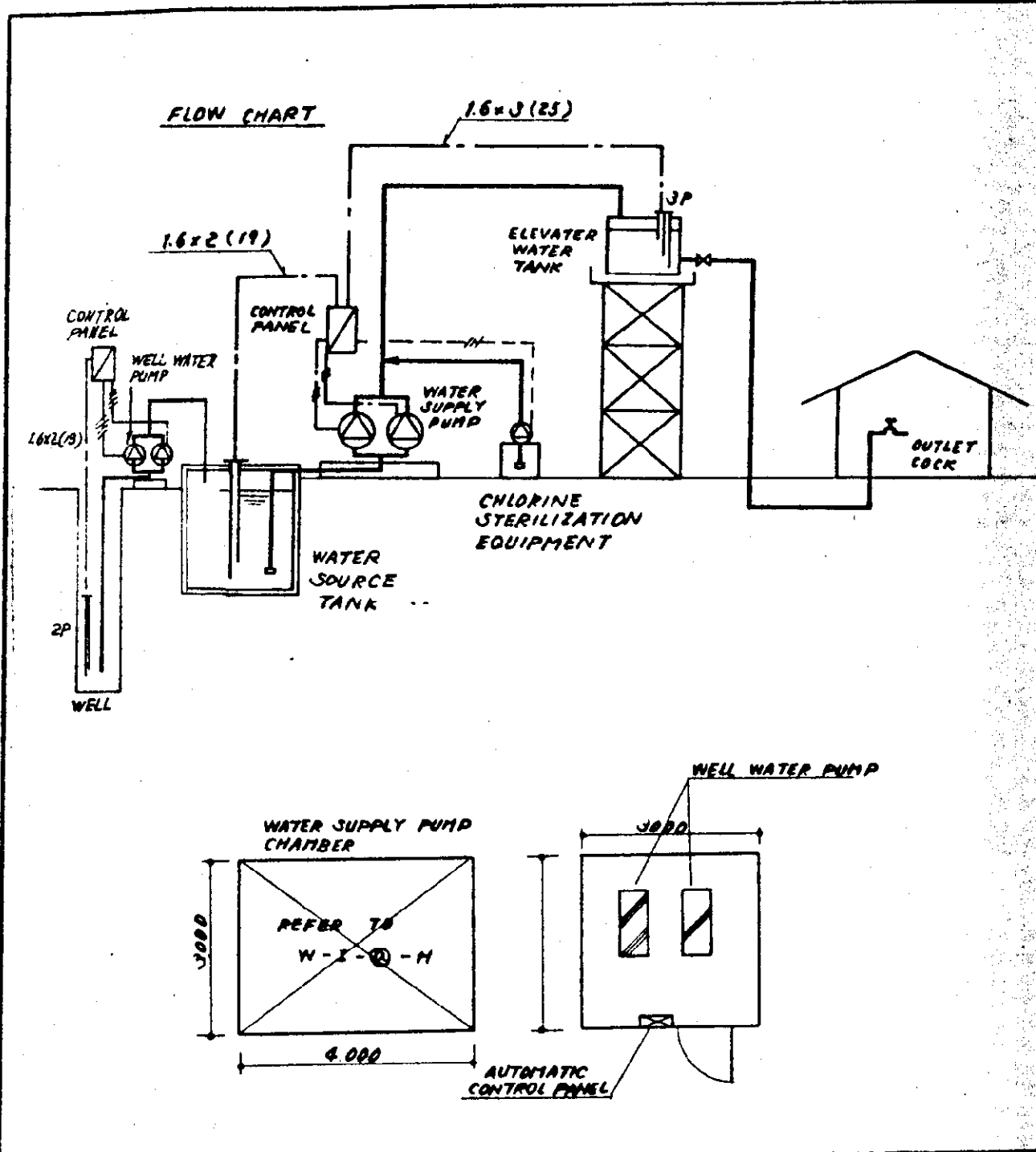
Erection fee includes the construction charge of automatic control equipment.

Al	Water supply plant	Water supply equipment and Water treatment equipment	16/34	Equipment list by Group Code	6/24	Group Code	W - I - b - T
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Tankless pump direct water supply equipment	1	5-1	0.54	3.7	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.15	-	
Sub-Total:					
Erection fee	1				
Site management fee	1				
Sub-Total:					
<b>Total</b>			0.75	3.76	

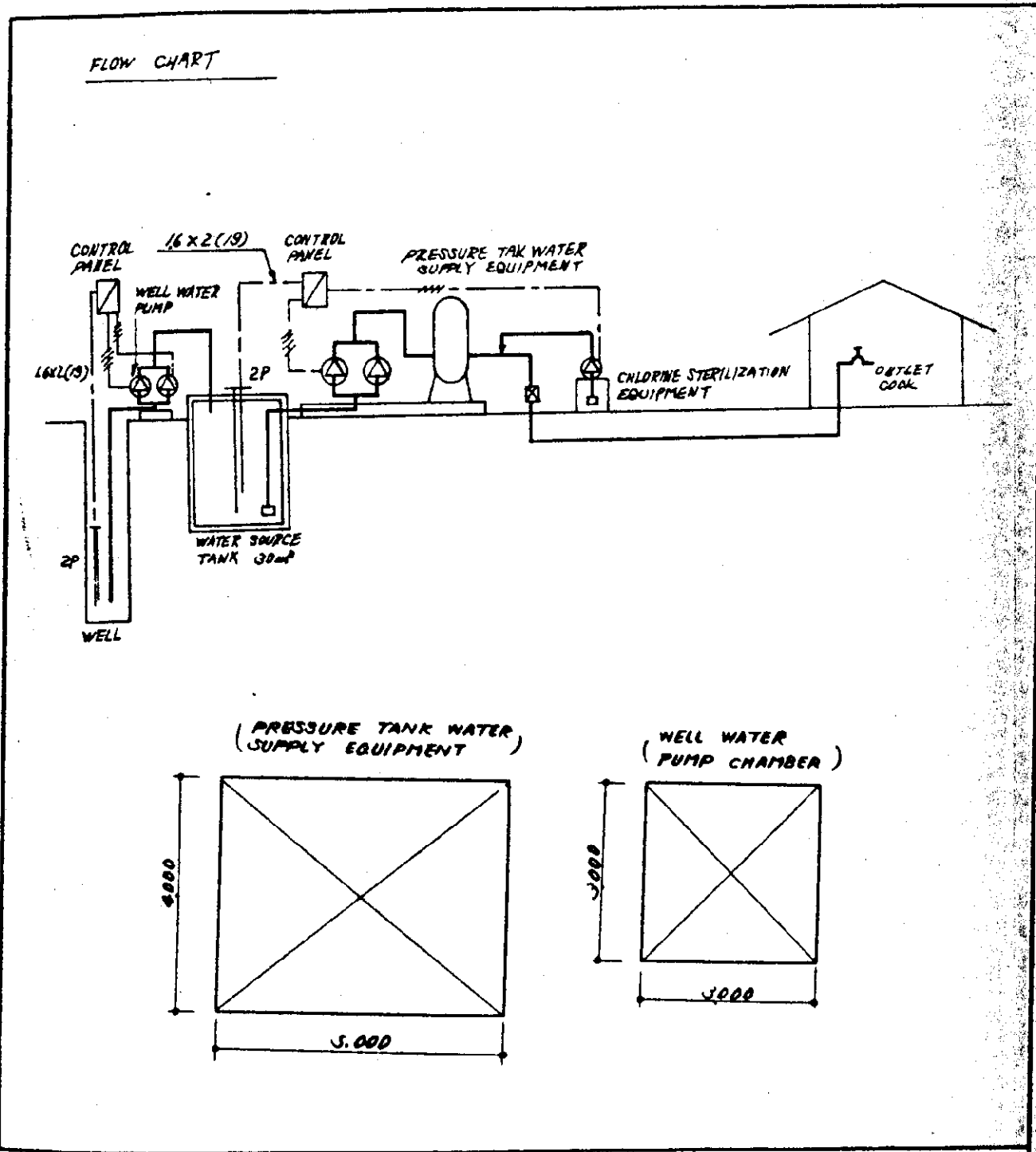
Building area	Tankless pump chamber	19.8 M <sup>2</sup>	Founda- tion	800x500x200Mx2 1,100x800x200Mx1	
Gross weight		0.75t			
Electric capacity		3.76kW			



Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Well water pump	1	6-I	0.27	1.5	
Water supply pump	1	1-I	0.4	3.7	
Elevated water tank	1	2-I	4.78	-	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1		0.3	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			5.81	5.26	

Building area	Water supply pump chamber and well water pump chamber	21 M <sup>2</sup>	Founda-tion	1,100x500x200Mx4 600x600x200Mx1	
Gross weight		5.81t			
Electric capacity		5.26kW			

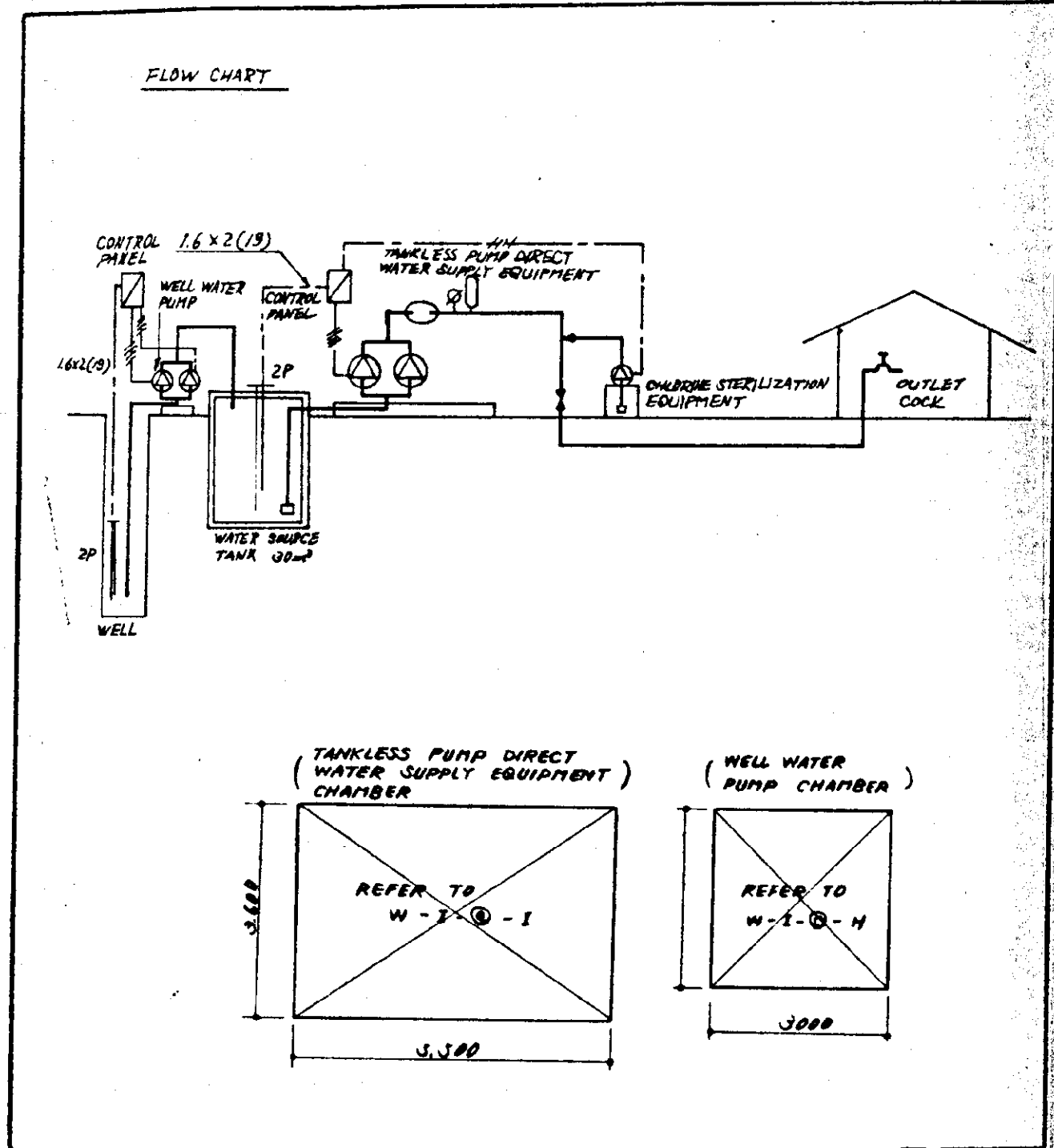




Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Well water pump	1	6-I	0.27	1.5	
Pressure tank water supply equipment	1	4-I	0.94	3.2	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.3	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			1.57	5.26	

Building area	Pressure tank water equipment chamber and well water pump chamber	29 M <sup>2</sup>	Founda- tion	2,500x2,000x200Mx1 600x600x200Mx1	
Gross weight		1.57t		1,100x500x200Mx2	
Electric capacity		5.26kW			

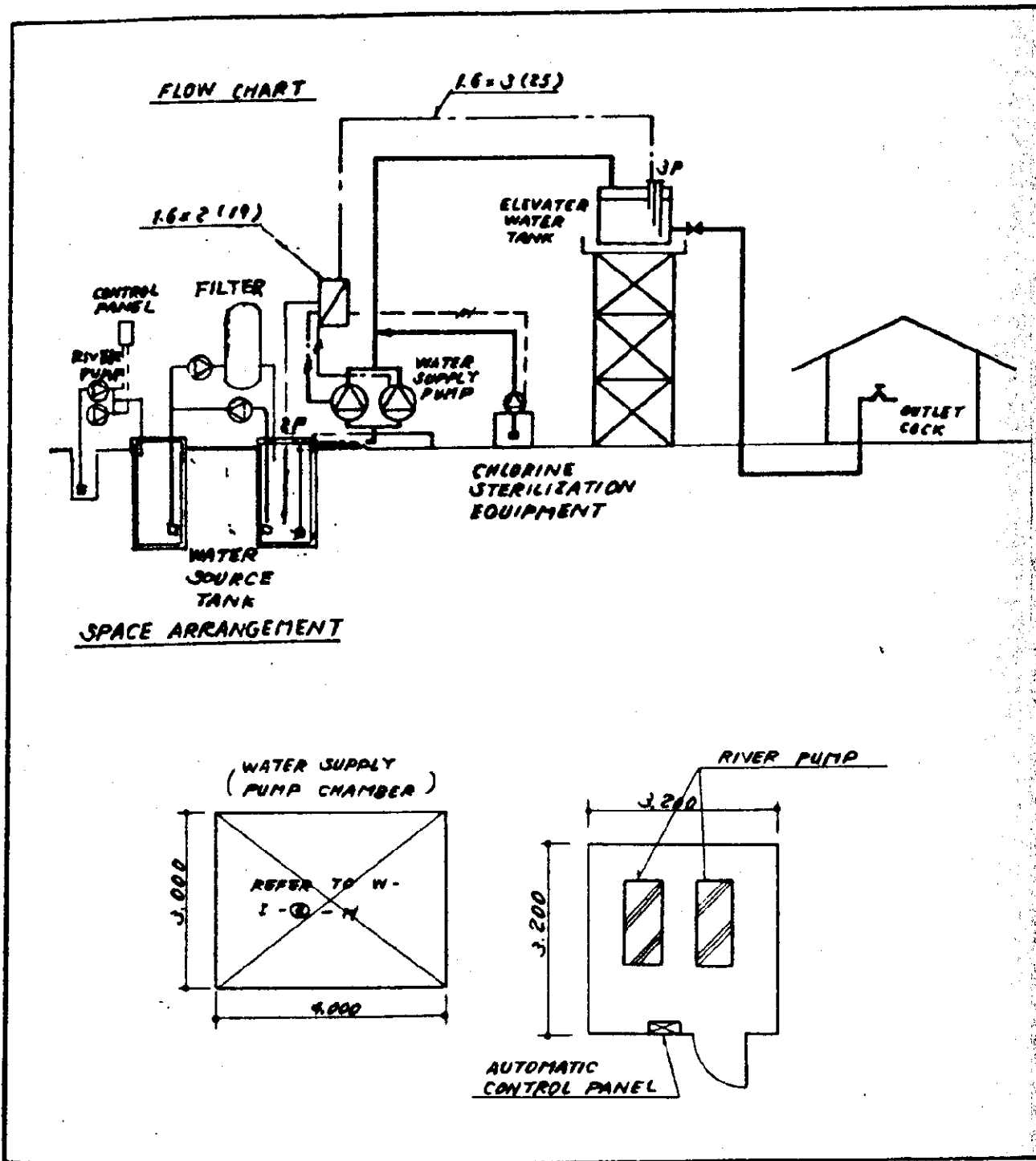
AI	Water supply plant - Water supply equipment and Water treatment equipment	19/34	Equipment list by Group Code	9/24	Group Code	W - I - © - T
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Well water pump	1	6-I	0.27	1.5	
Tankless pump direct water supply equipment	1	5-I	0.54	3.7	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.3	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			1.17	5.26	

Building area	Pressure tank water equipment chamber and well water pump chamber	28.8 M <sup>2</sup>	Foundation	800x500x200Mx2 1,100x800x200Mx1
Gross weight		1.17t		600x800x200Mx1
Electric capacity		5.26kW		1,100x500x200Mx2

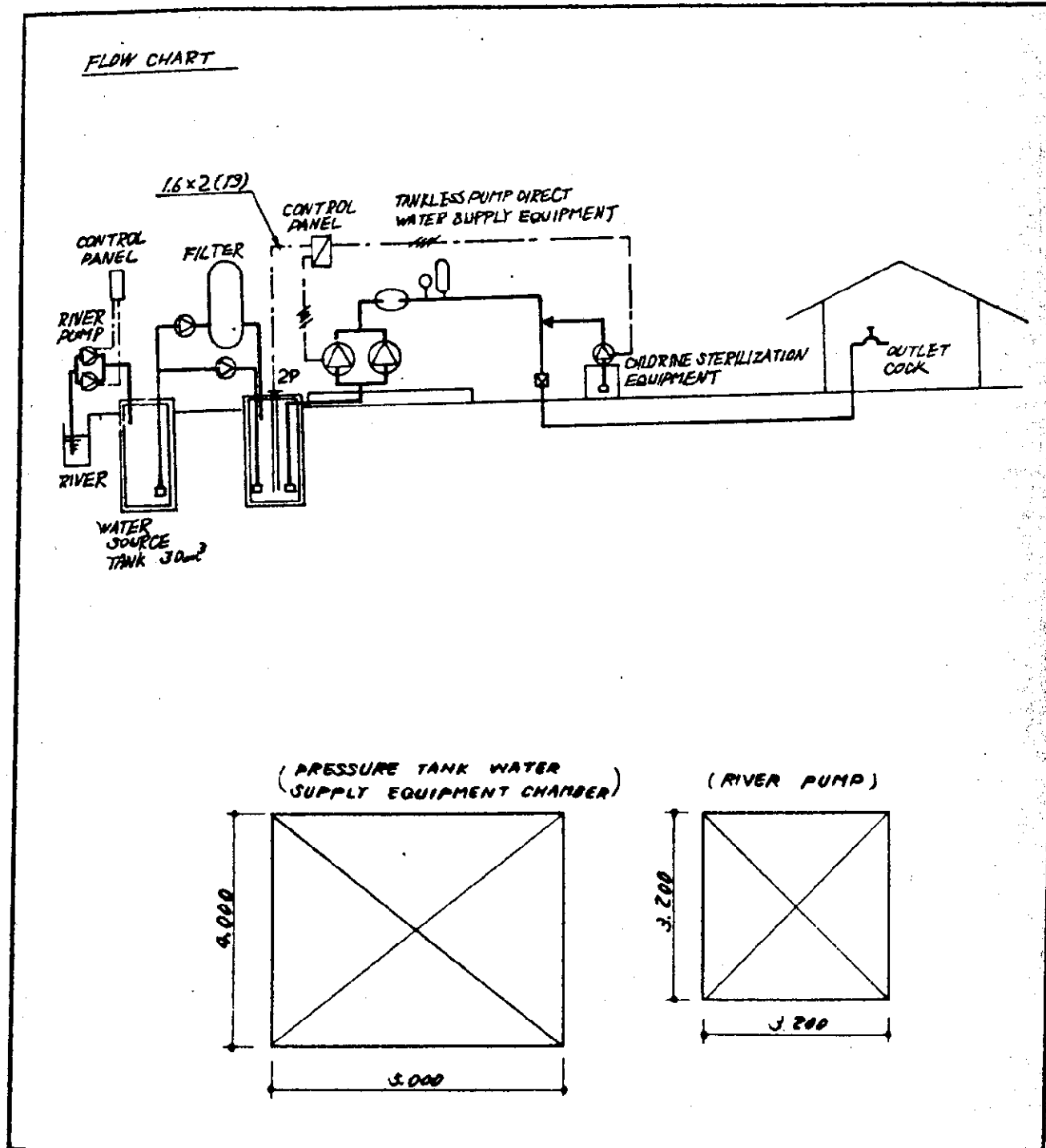
A1	Water supply plant - Water supply equipment and Water treatment equipment	20/34	Equipment List by Group Code	10/14	Group Code	W - I - d - H
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Equipment list					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Water source tank	1	-	-	-	
River pump	1	7-1	0.69	7.5	
Filter	1	9	5.0	3.7	
Water supply pump	1	1-1	0.4	3.7	
Elevated water tank	1	2-1	4.98	-	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.3	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			11.23	14.96	

Building area	Water supply pump + River pump	22.24 M <sup>2</sup>	Founda-tion	1,100x500x200Mx2 600x600x200x1
Gross weight		11.23t		1,400x600x200Mx2
Electric capacity		14.96kW		1,600x1,600x500Mx1 800x500x200Mx2

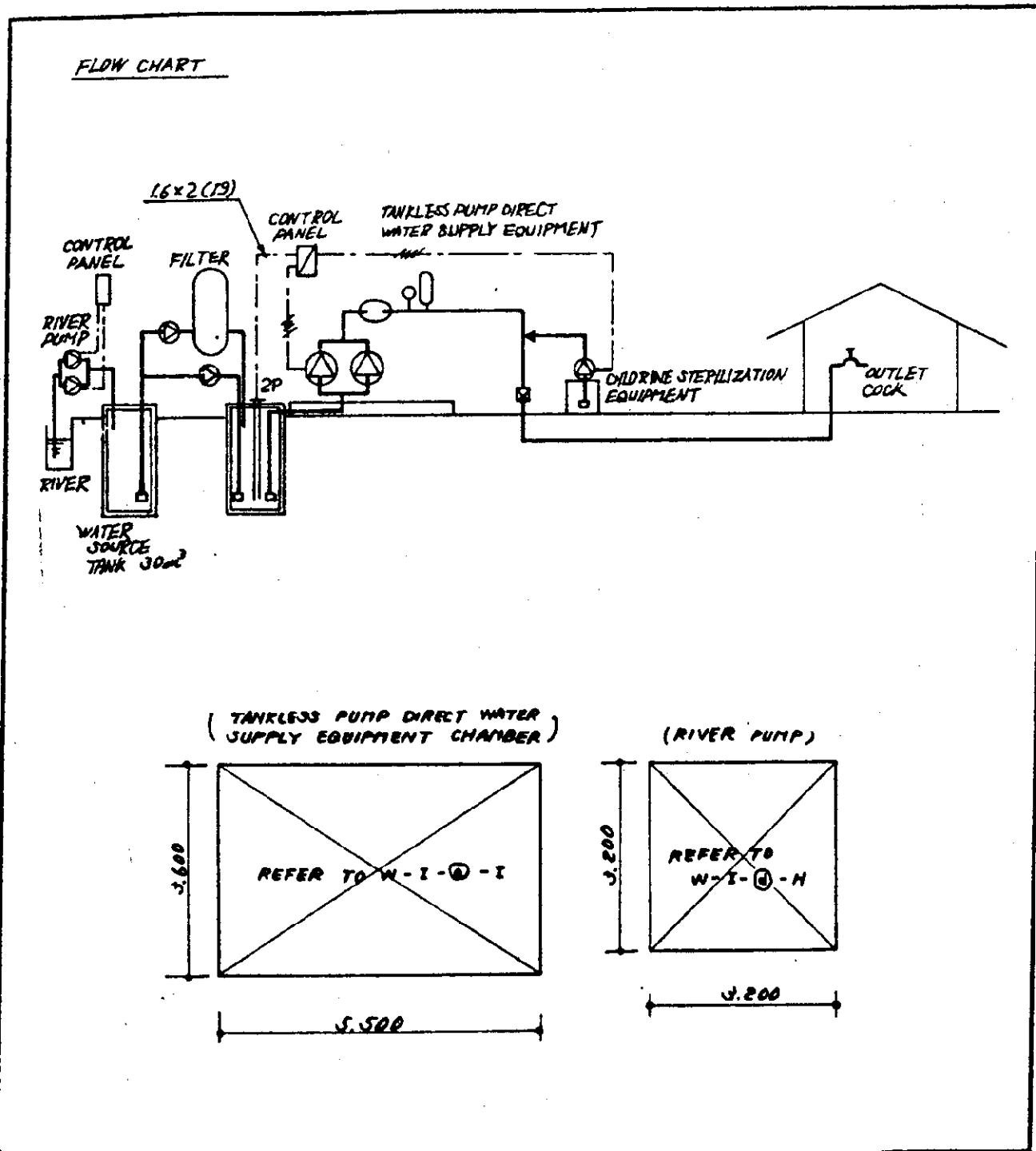
Al	Water supply plant - Water supply equipment and Water treatment equipment	21/34	Equipment list by Group Code	11/24	Group Code	W - I - d) - P
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Equipment list					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Water source tank	1	-	-	-	
River pump	1	7-1	0.69	7.5	
Filter	1	9	5.0	3.7	
Pressure tank water supply equipment	1	4-1	0.94	3.7	
Chlorine sterilization equipment	1	8	0.06	-	
Relevant items for automatic control equipment	1	-	0.3	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			6.99	14.96	

Building area	Water supply pump + River pump	30.24 M <sup>2</sup>	Founda-tion	2,500x2,000x200Mx1 600x600x200Mx1	
Gross weight		6.99t		1,400x600x200Mx2	
Electric capacity		1.96kW		1,600x1,600x500Mx1 800x500x200Mx2	

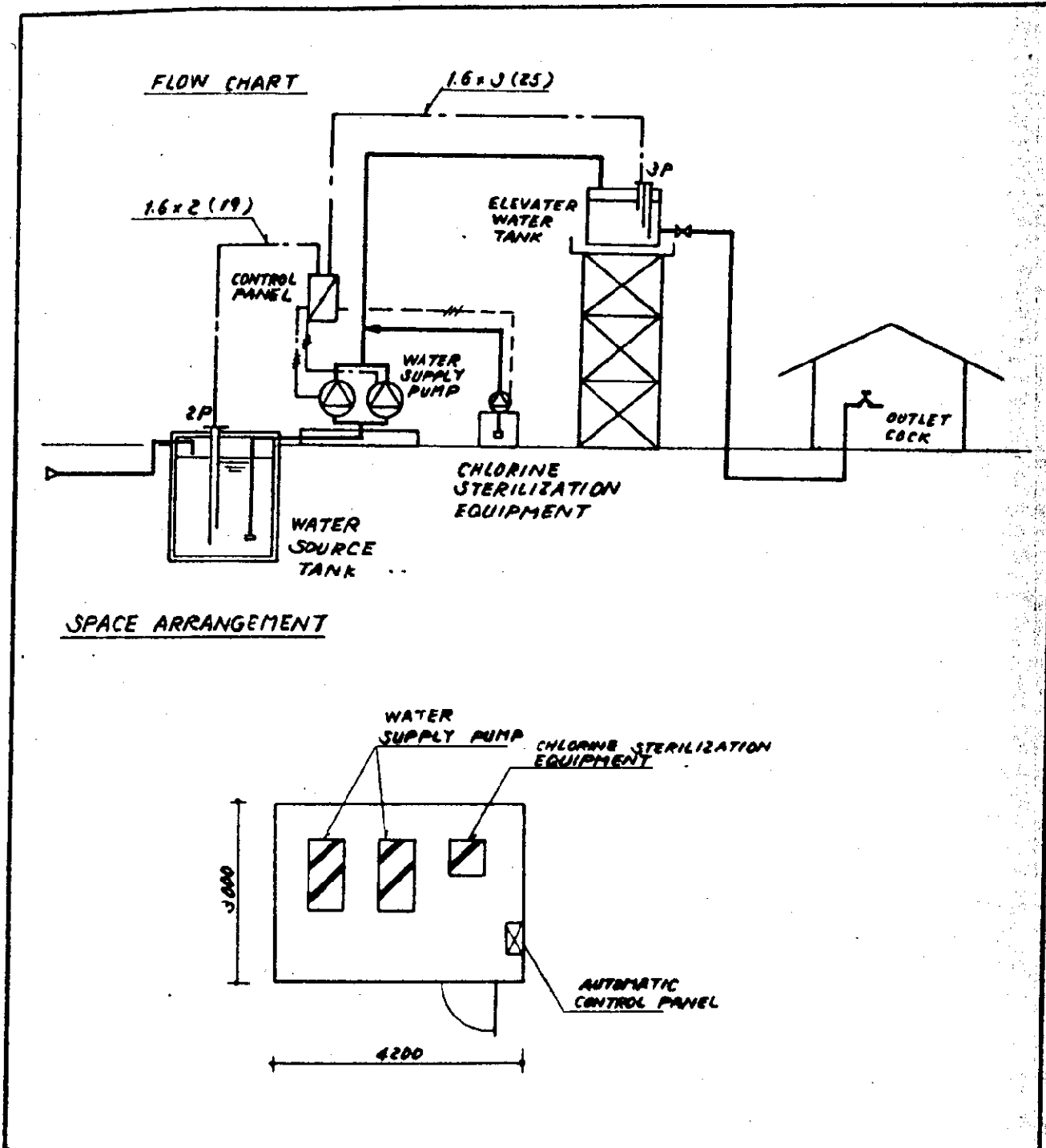
A1	Water supply plant - Water supply equipment and Water treatment equipment	22/34	Equipment List by Group Code	12/24	Group Code	W - I - 3 - H
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Water source tank	1	-	-	-	
River pump	1	7-I	0.69	7.5	
Filter	1	9	5.0	3.7	
Tankless pump direct supply method	1	5-I	0.54	3.7	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.3	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			6.59	14.96	

Building area	Water supply pump + River pump	30.04M <sup>2</sup>	Founda-tion	1,100x500x200Mx2 600x600x200Mx1
Gross weight		5.39t		
Electric capacity		3.76kW		

Al	Water supply plant - Water supply equipment and Water treatment equipment	23/ 34	Equipment List by Group Code	13 24	Group Code	W - I - ③ - H
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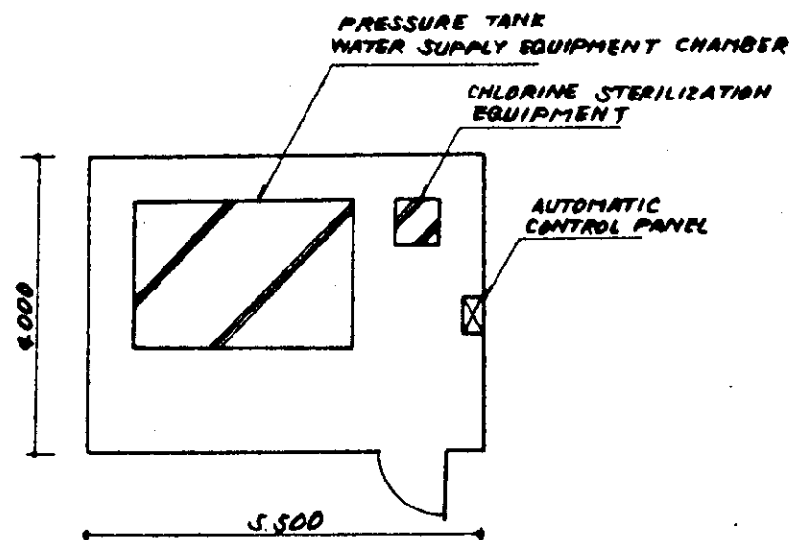
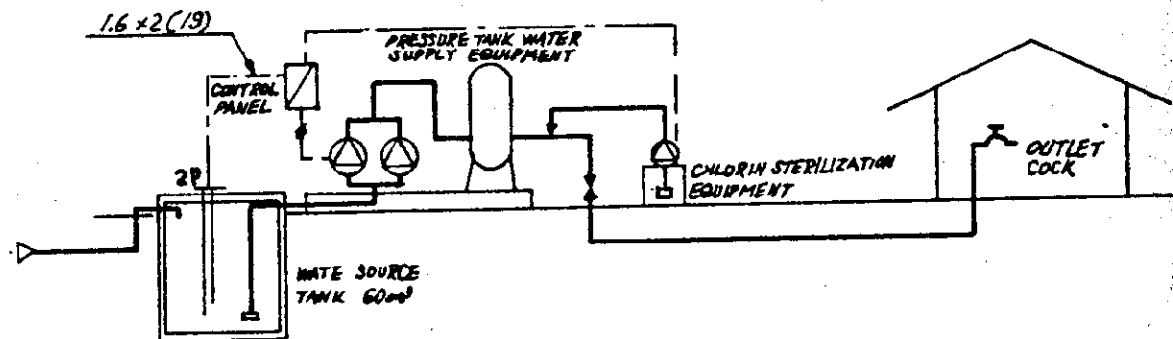


Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Water supply pump	1	1-II	0.57	5.5	
Elevated water tank	1	2-II	5.48	-	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1		0.15		
Sub-Total:					
Erection fee	1				
<b>Total</b>			6.26	5.56	

Building area	Pump Chamber	12.6 M <sup>2</sup>	Founda- tion	1,200x600x200Mx2. 600x600x200Mx1	
Gross weight		6.26t			
Electric capacity		5.56kW			

A1	Water supply plant - Water supply equipment and Water treatment equipment	24/34	Equipment list by Group Code	14 24	Group Code	W - II- a) - P
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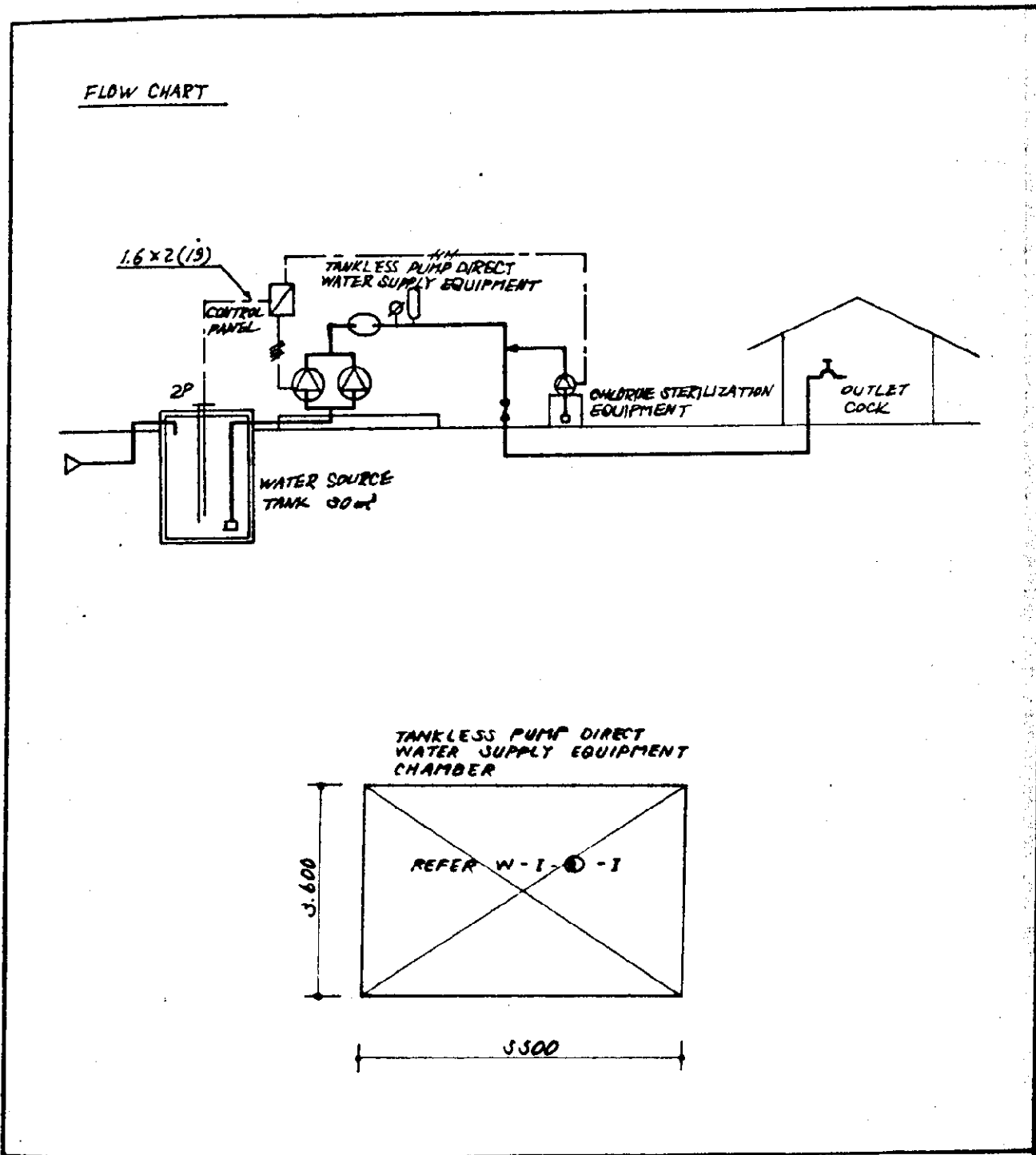
FLOW CHART



Building area	Pressure tank water supply equipment chamber	22 M <sup>2</sup>	Founda- tion	3,000x2,000x200Mx1 600x600x200Mx1	
Gross weight		2.72t			
Electric capacity		11.06kW			

Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Pressure tank water supply equipment	1	4-II	2.51	11	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1		0.15	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			2.72	16.06	

Al	Water supply plant - Water supply equipment and Water treatment equipment	25/ 34	Equipment list by Group Code	15 24	Group Code	W - II- a) - T
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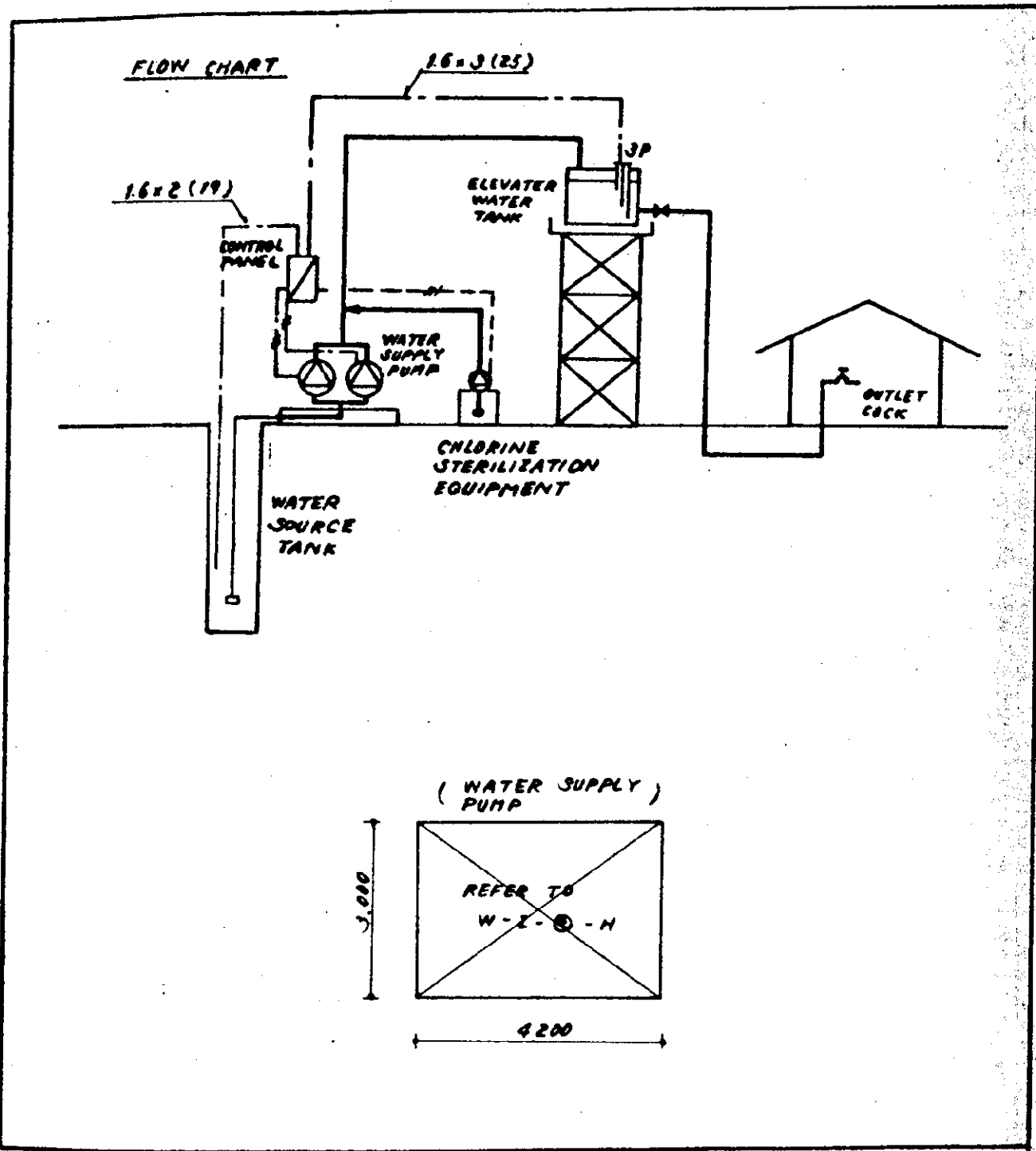


Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Tankless pump direct water supply equipment	1	5-II	0.56	5.5	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1		0.15	-	
Sub-Total:					
Erection fee					
<b>Total</b>			0.77	5.56	

Building area	Tankless pump chamber	19.8 M <sup>2</sup>	Founda- tion	800x500x200Mx2 1,100x800x200Mx1	
Gross weight		0.77t		600x600x200Mx1	
Electric capacity		5.56kW			



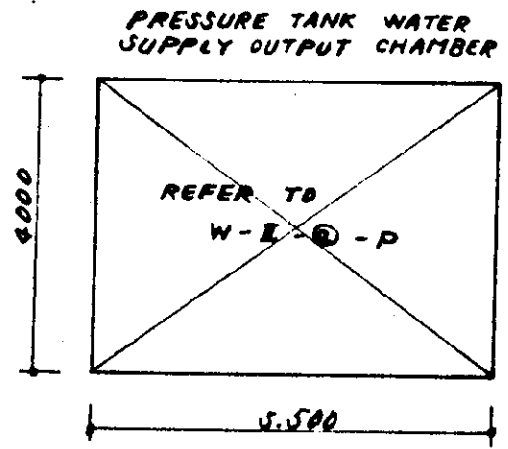
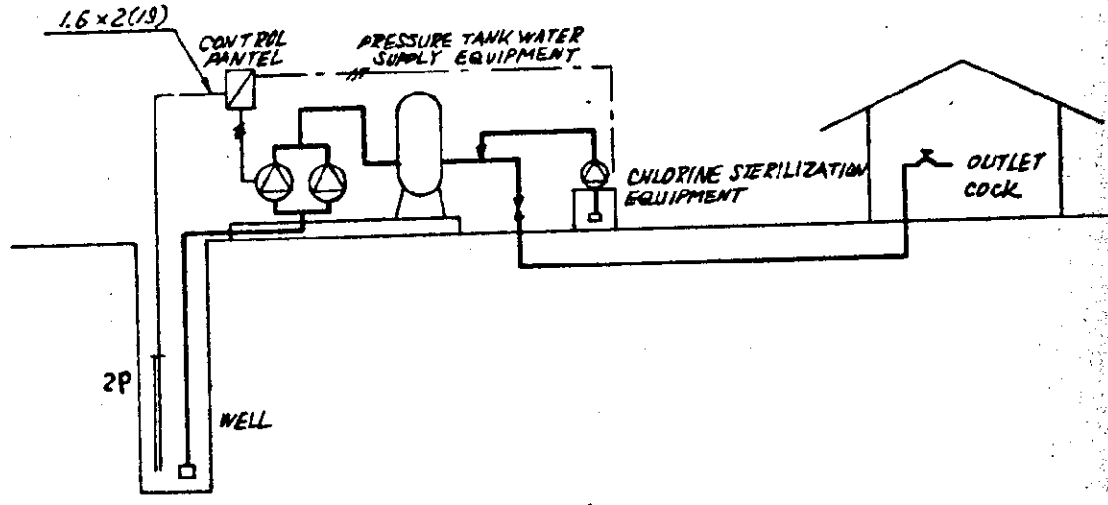
A1	Water supply plant - Water supply equipment and Water treatment equipment	26/34	Equipment list by Group Code	16 24	Group Code	W - II- b) - H
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Equipment list					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water supply pump	1	1-II	0.57	5.5	
Elevated water tank	1	2-II	5.48	-	
Chlorine sterilization equipment	1	8-C	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.15	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			6.26	5.56	

Building area	Pump chamber	12.6 M <sup>2</sup>	Founda- tion	1,200x600x200Mx2 600x600x200Mx1	
Gross weight		6.26t			
Electric capacity		5.56kW			

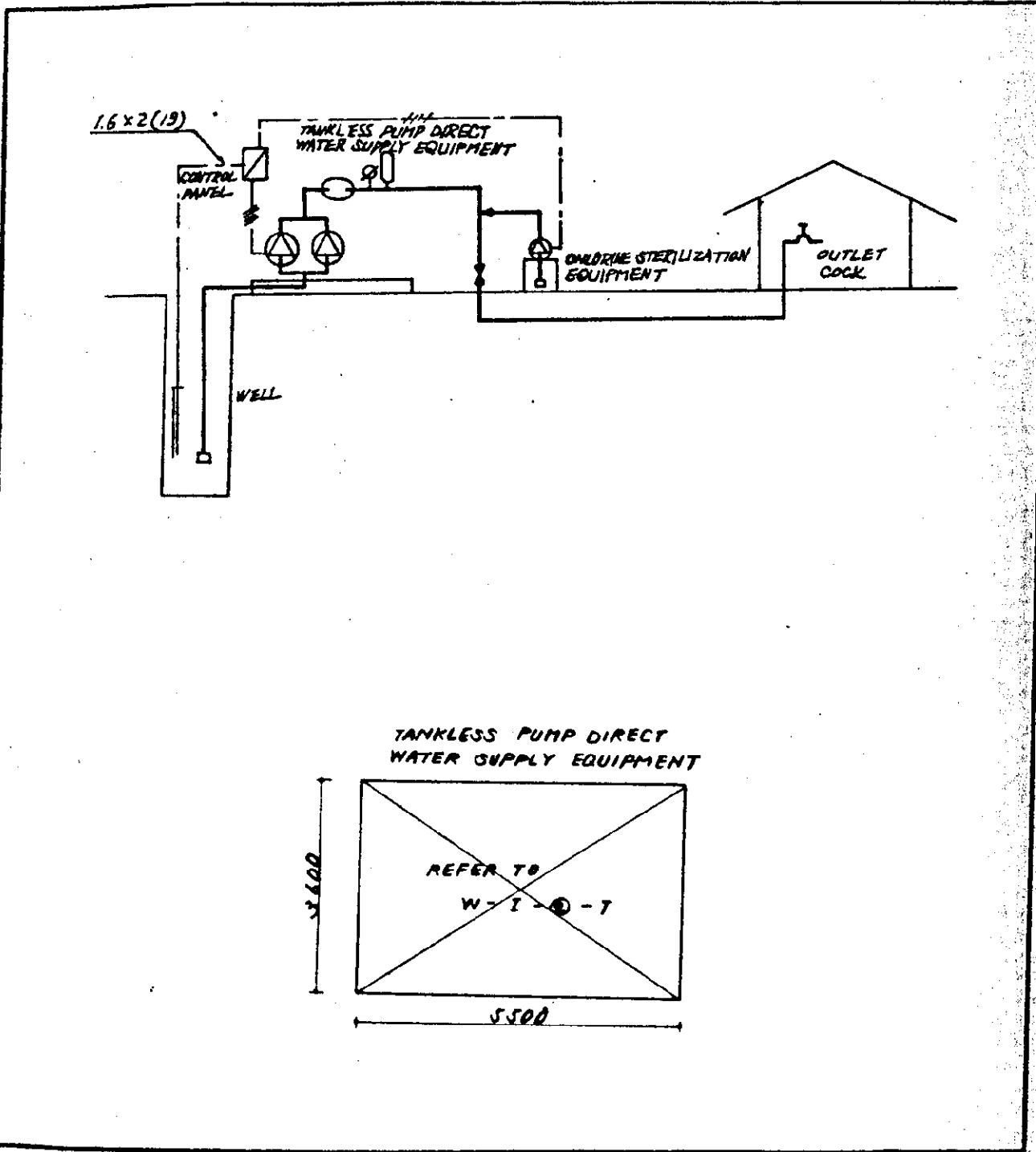
FLOW CHART



Equipment List

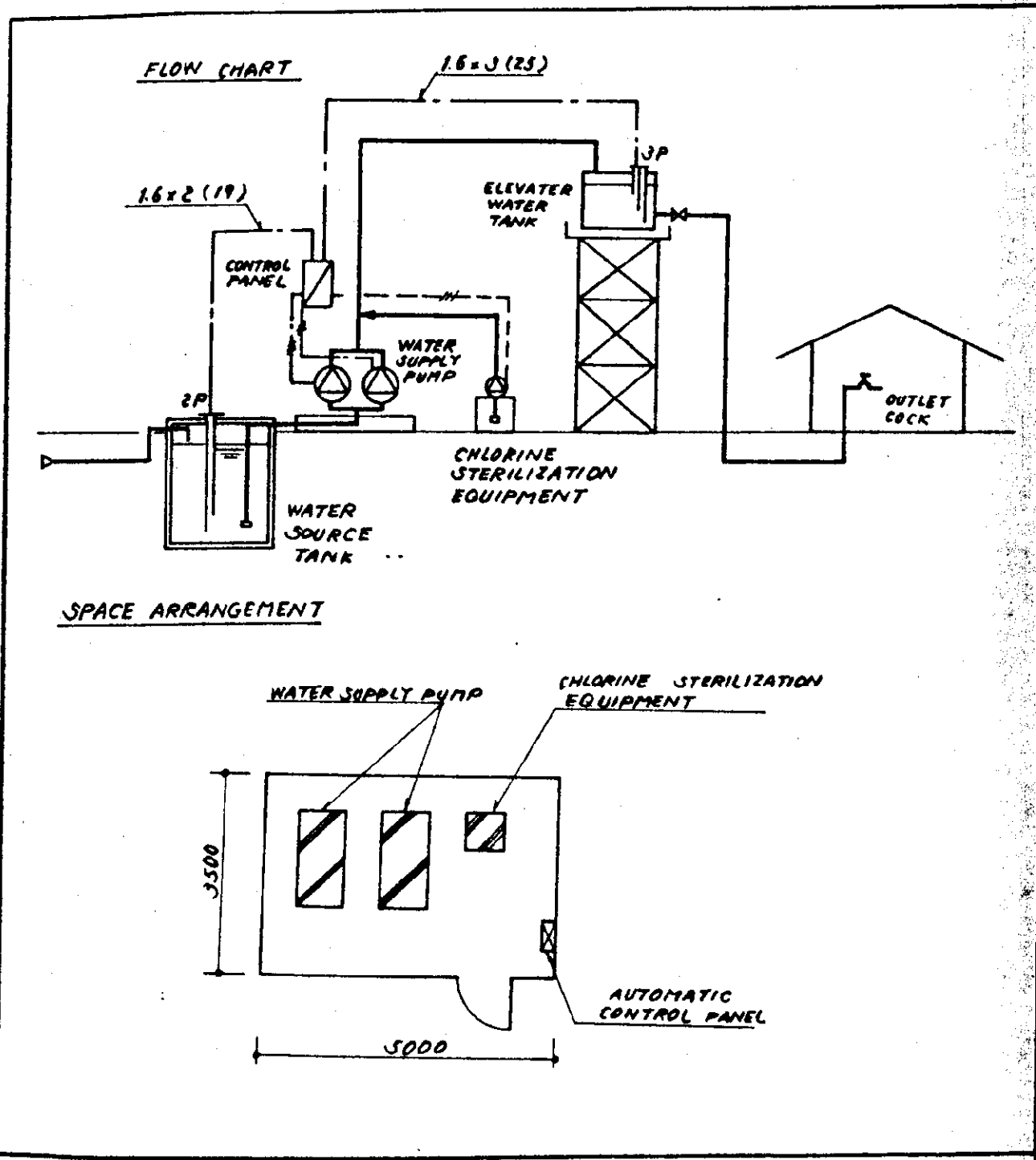
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Pressure tank water supply equipment	1	4-II	2.51	11	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.15	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			2.72	11.00	

Building area	Pressure tank water supply equipment	22 M <sup>2</sup>	Founda- tion	3,000x2,000x200Mx1 600x600x200Mx1	
Gross weight		2.72t			
Electric capacity		11.06kW			



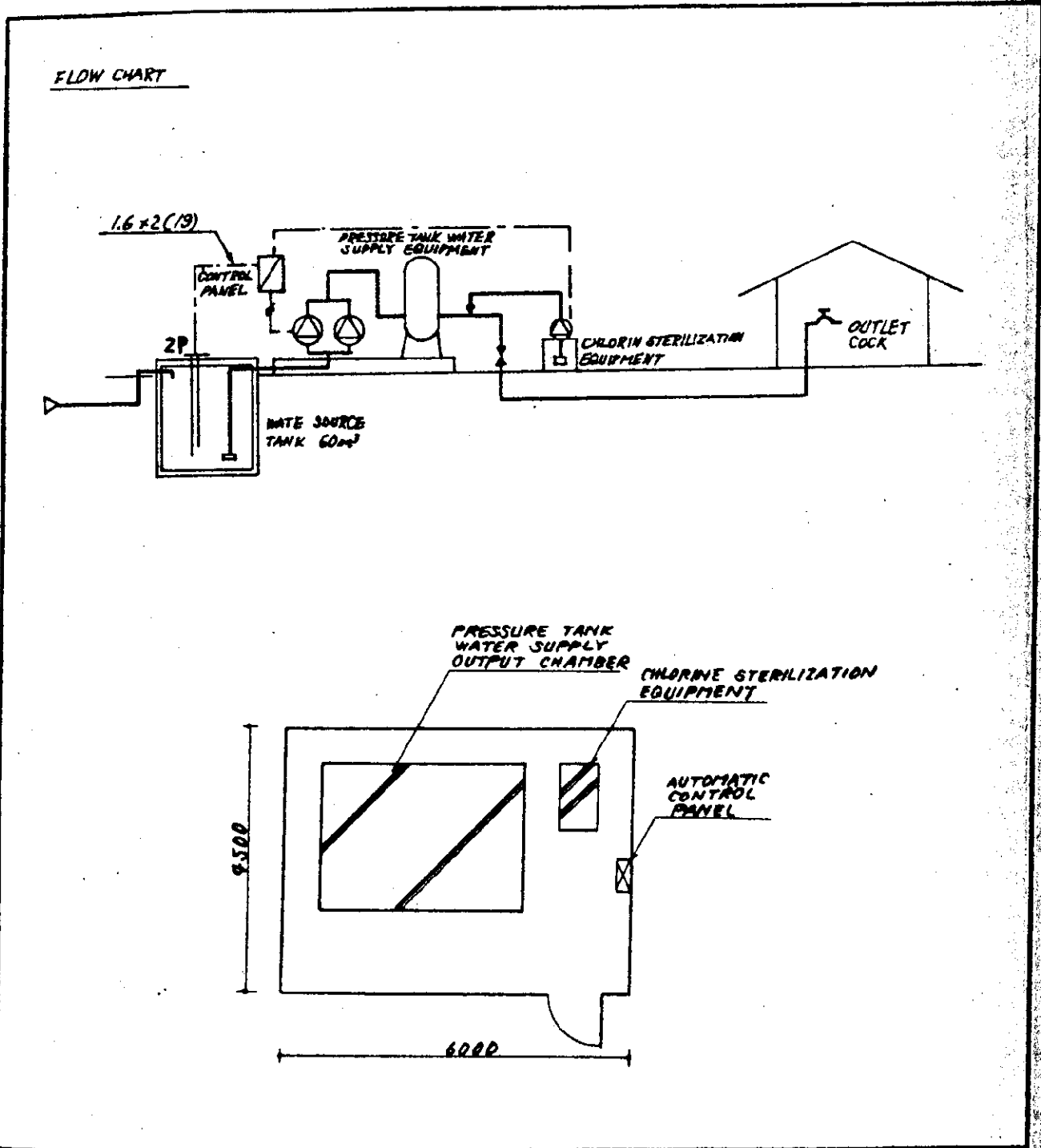
Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Tankless pump direct water supply equipment	1	5-II	0.56	5.5	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.15	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			0.77	5.56	

Building area	Tankless pump	19.8 M <sup>2</sup>	Founda- tion	800x500x200Mx2 1,100x800x200Mx1	
Gross weight		0.77t		600x600x200Mx1	
Electric capacity		5.56kW			



Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Water supply pump	1	1-IV	1.2	15	
Elevated water tank	1	2-IV	6.3	-	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.23	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			7.79	15.06	

Building area	Pump chamber	17.5 M <sup>2</sup>	Founda- tion	1,600x800x200Mx2 600x600x200Mx1	
Gross weight		7.79t			
Electric capacity		15.06kW			

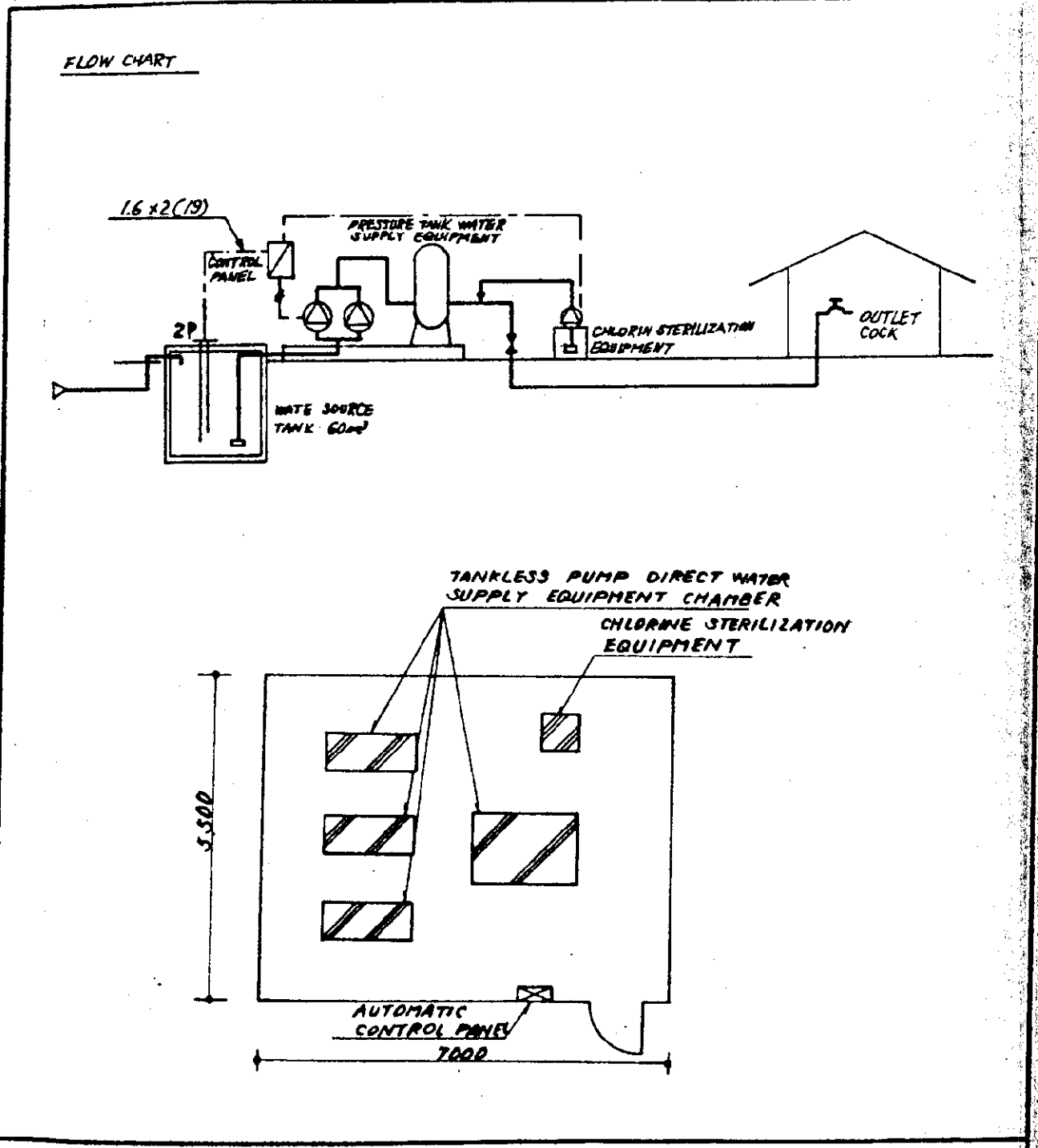


Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Pressure tank water supply equipment	1	4-IV	4,96	22	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.23	-	
Sub-Total:					
Erection fee	1				

<b>Total</b>			5.25	22.06	
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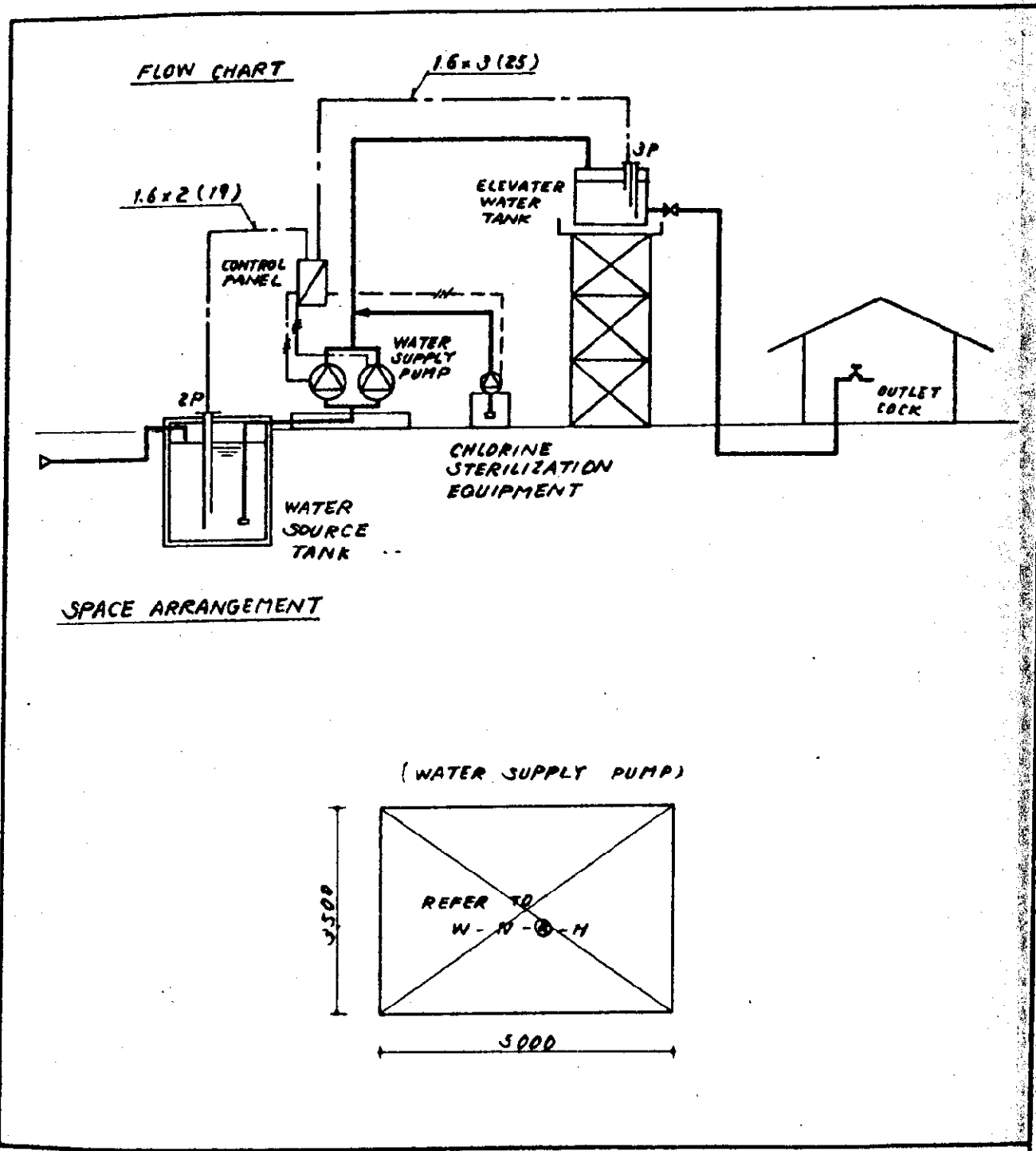
Building area	Pressure tank water supply equipment chamber	27 M <sup>2</sup>	Founda-tion	3,500x2,500x200Mx1 600x600x200Mx1	
Gross weight		5.25t			
Electric capacity		22.06kW			

A1	Water supply plant - Water supply equipment and Water treatment equipment	31/34	Equipment List by Group Code	21/24	Group Code	W - IV - T
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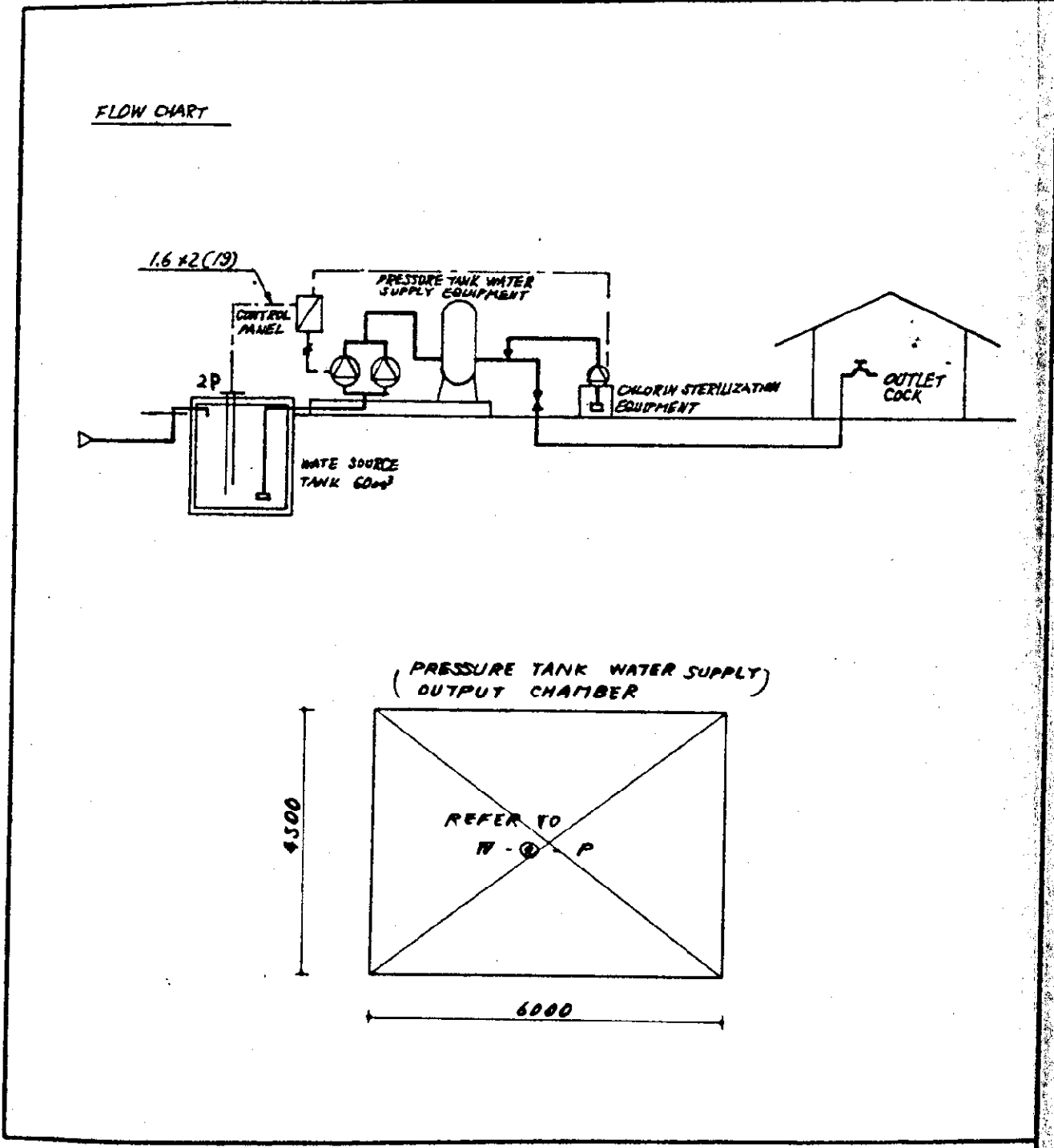
Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Tankless pump direct water supply equipment	1	5-IV	4.27	22	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.23		
Sub-Total:					
Erection fee	1	-			
<b>Total</b>			4.56	22.06	

Building area	Pump chamber	38.5 M <sup>2</sup>	Founda-tion	1,500x600x200Mx3 1,800x1,100x200Mx1
Gross weight		4.56t		600x600x200Mx1
Electric capacity		22.06kW		



Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Water supply pump	1	1-V	1.24	18.5	
Elevated water tank	1	2-V	8.57	-	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.23	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			10.1	18.56	

Building area	Pressure tank water supply equipment	17.5 M <sup>2</sup>	Founda- tion	1,600x800x200Mx2 600x600x200Mx1	
Gross weight		10.1t			
Electric capacity		18.56kW			

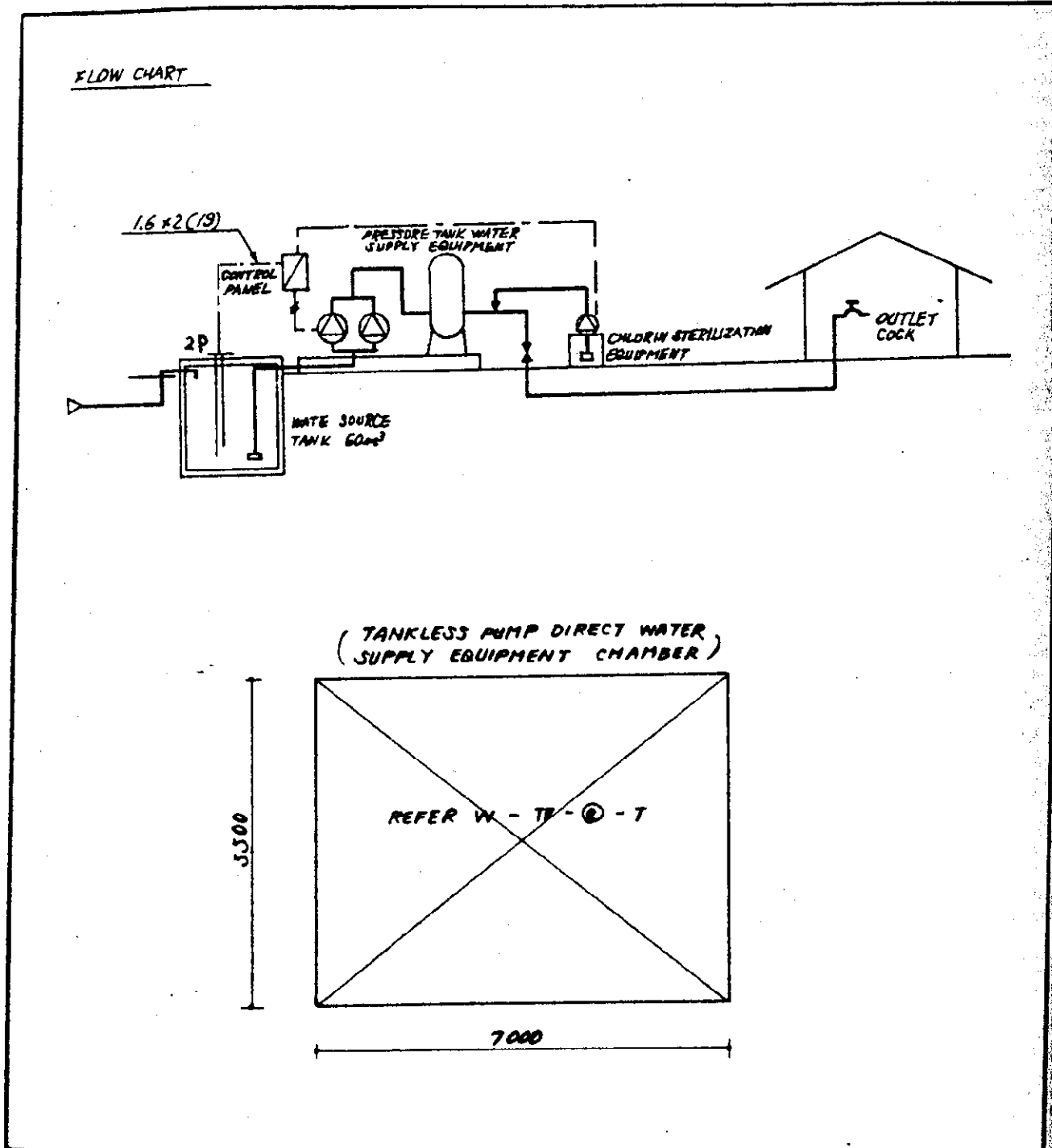


Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Pressure tank water supply equipment	1	4-V	6.09	30	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.23	-	
Sub-Total:					
Erection fee	1				
<b>Total</b>			6.38	30.06	

Building area	Pressure tank water supply equipment chamber	27 M <sup>2</sup>	Founda- tion	3,500x2,500x200Mx1 600x600x200Mx1	
Gross weight		6.38t			
Electric capacity		30.06kW			



A1	Water supply plant - Water supply equipment and Water treatment equipment	34/34	Equipment list by Group Code	24/24	Group Code	W - V - T
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Water source tank	1	-	-	-	
Tankless pump direct water supply equipment	1	5-V	4.57	30	
Chlorine sterilization equipment	1	8	0.06	0.06	
Relevant items for automatic control equipment	1	-	0.23	-	
Sub-Total:					
Erection fee					
<b>Total</b>			4,96	30.06	

Building area	Pump chamber	38.5 M <sup>2</sup>	Founda-tion	1,500x600x200Mx3 1,800x1,100x200Mx1
Gross weight		4.86t		600x600x200Mx1
Electric capacity		30.06kW		

5-2 Water supply-outside water piping (A2)

A2	WATER SUPPLY -- OUTSIDE WATER PIPING	1/9
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NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Tondano	Galvanized iron pipes	3 "	100	
	"	2 1/2 "	80	
	"	2 "	120	
	"	1 3/4 "	130	
	"	1 "	300	
	"	3/4 "	200	
Gorontalo	Galvanized iron pipes	4 "	50	
	"	3 "	30	
	"	2 1/2 "	120	
	"	2 "	60	
	"	1 3/4 "	200	
	"	1 "	140	
	"	3/4 "	220	

NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Ujung Pandang	Galvanized iron pipes	6 "	200	
	"	4 "	50	
	"	3 "	160	
	"	2 1/2 "	150	
	"	2 "	460	
	"	1 3/4 "	600	
	"	1 "	700	
	"	3/4 "	800	
	"			
Pare - Pare	Galvanized iron pipes	3 "	150	
	"	2 1/2 "	70	
	"	2 "	150	
	"	1 3/4 "	340	
	"	1 "	300	
	"	3/4 "	550	
	"			
	Galvanized iron pipes	3 "	30	
	"			
"				

NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Palopo	Galvanized iron pipes	3 "	80	
	"	2 1/2 "	70	
	"	2 "	310	
	"	1 3/4 "	160	
	"	1 "	60	
	"	3/4 "	220	
Soppeng	Galvanized iron pipes	3 "	110	
	"	2 1/2 "	60	
	"	2 "	190	
	"	1 3/4 "	60	
	"	1 "	70	
	"	3/4 "	200	

NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS	
Tenriawaru	Galvanized iron pipes	2 1/2 "	330		
	"	2 "	360		
	"	1 3/4 "	240		
	"	1 "	230		
	"	3/4 "	300		
Elim Rantepao	Galvanized iron pipes	3 "	200		
	"	2 1/2 "	40		
	"	2 "	120		
	"	1 3/4 "	170		
	"	1 "	140		
	"	3/4 "	300		

A2	WATER SUPPLY -- OUTSIDE WATER PIPING	5/9
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NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Bantaeng	Galvanized iron pipes	3 "	100	
	"	2 1/2 "	20	
	"	2 "	140	
	"	1 3/4 "	100	
	"	1 "	50	
	"	3/4 "	230	
Medan				

NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Pematang Siantar	Galvanized iron pipes	4 "	470	
	"	3 "	250	
	"	2 1/2 "	150	
	"	2 "	600	
	"	1 3/4 "	1,200	
	"	1 "	1,650	
	"	3/4 "	1,000	
Tartung	Galvanized iron pipes	4 "	180	
	"	3 "	120	
	"	2 1/2 "	200	
	"	2 "	510	
	"	1 3/4 "	700	
	"	1 "	1,000	
	"	3/4 "	700	
		Galvanized iron pipes	4 "	3,000

NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Kisaran	Galvanized iron pipes	3 "	10	
	"	2 "	1,000	
	"	1 "	540	
	"	3/4 "	300	
Rantau Prapat	Galvanized iron pipes	3 "	10	
	"	2 1/2 "	240	
	"	2	400	
	"	1 3/4 "	200	
	"	1 "	320	
	"	3/4 "	250	



NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Tebing Tinggi	Galvanized iron pipes	3 "	160	
	"	2 1/2 "	80	
	"	2 "	180	
	"	1 3/4 "	120	
	"	1 "	130	
	"	3/4 "	200	
Tanjung Balai	Galvanized iron pipes	3 "	70	
	"	2 1/2 "	50	
	"	2 "	210	
	"	1 3/4 "	230	
	"	1 "	370	
	"	3/4 "	300	
	Uinyl pipes	3 "	-	

NAME OF HOSPITAL	MATERIAL OF PIPES	SIZE (B)	LENGTH (m)	REMARKS
Rorsea	Galvanized iron pipes	3 "	10	
	"	2 1/2 "	20	
	"	2 "	130	
	"	1 3/4 "	130	
	"	1 "	40	
	"	3/4 "	180	
	Galvanized iron pipes	3 "	500	

5-3 Kitchen (B)

B	KITCHEN	1/23	EQUIPMENT LIST	1/17
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NAME	Cooking Table (Kerosene)
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TECHNICAL DATA	
Body Frame	: Steel angle L 5 × 50 × 50 m/m
Top Plate	: Cast iron t = 12 m/m
Apron	: Stainless steel SUS 430, t = 1.2 m/m
legs	: Stainless steel angle SUS 430, L 3 × 40 × 40
Adjust Ball	: Cast iron chrome plated.
Burner	: Kerosene burner, vaporized type, 120,000 Kcal per each burner, with vaporizing heater.
Vaporizing Heater:	1p/100v/0.6 kw per each burner. This heater shall be operated about 5 ~ 6 minutes before burner ignited for vaporize kerosene, and stopped automatically after burner ignited.
Burner Ring	: φ 320 m/m, cast iron
Spare Parts	:

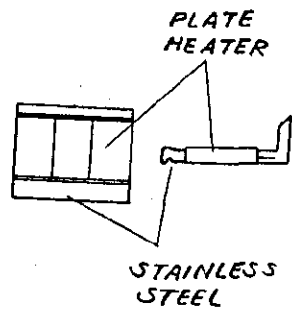
ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
1 - 0, I, III	4 burner model Dim. 1,800 × 750 × 850 m/m	0.4	2.4
1 - II	3 oulder model Dim. 1,400 × 750 × 850 m/m	0.32	2.0
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	2/23	EQUIPMENT LIST	2/17
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NAME	Cooking Table (Electric)
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TECHNICAL DATA	
Body Exterior	: Stainless Steel SUS. 430, t = 1.0 m/m
Top Plate	: Plate Heater, 3p/220v/15kw.
Switch	: 3-step Switch. (High, Middle, Low.)
Thermostat	: High cut thermostat.
Under Cabinet	: Open Cabinet type w/ shelf.
Adjustable Leg	: Cast Iron, Crome Plated.
Spare Parts	: 1 Pilot Lump 1 Switch Knob



ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
2 - IV,V	Dim. 900 x 970 x 850 m/m	0.3	15
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	3/23	EQUIPMENT LIST	3/17
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NAME	Rice Cooker (Steam operated.)
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TECHNICAL DATA	
Body	: 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 shelf with 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.
Door	: 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 valves are open and closed. Steaming timer is controlled by a timer. Control box is provided with pressure gauge, thermostat, timer, switches, and indicating lamp.
Max. Steam Pressure:	0.9 kg/cm <sup>2</sup>
Standard Accessory:	Cooking Pan. 15 pcs for Model RCS-5, 21 pcs for RCS-8.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
3 - IV	75 kgs cap. Dim.        ×        ×        m/m Steam consumption: 64 kg/hr	1.2	0.1
3 - V	kgs cap. Dim. 1,400 × 1,150 × 1,920 m/m Steam consumption: 108 kg/Hr	1.6	0.1
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

KITCHEN	4/23	EQUIPMENT LIST	4/17
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NAME	Fryer (Electric.)
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TECHNICAL DATA

Body : Stainless Steel SUS. 430, t = 1.0 m/m  
 Top Plate : Stainless Steel SUS. 430, t = 1.2 m/m  
 Oil Basin : Stainless Steel SUS. 430, t = 1.2 m/m with oil cock.  
 Heater : 3p-220v-9kw  
 Thermostat : Robertshaw 300°C  
 Basket : 2 (two) baskets.  
 Oil Drain Board: Stainless Steel SUS. 430, t = 0.8 m/m  
 Dimension : 450 × 970 × 850 m/m  
  
 Spare Parts : Thermostat 1 (one)  
                   Pilot Lamp 1 (one)

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
4 - IV, V	As above.	0.3	9.0
REMARKS			

Weight; Top - Gross shipping weight  
           Bottom - Net weight

B	KITCHEN	5/23	EQUIPMENT LIST	5/17
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NAME	Tilting - Braising Pan
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TECHNICAL DATA	
Pan	: Stainless Steel SUS. 430, 1.2 m/m Dim. 1,000 × 650 × 180 (Depth) m/m, Cap. 100 liter
Leg	: Stainless Pipe SUS. 304, ϕ 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)
5 - IV,V	As above	0.42	15
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	6/23	EQUIPMENT LIST	6/17
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NAME	Refrigerator (Reach-in type)
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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	: $\phi$ 6 m/m wire, polyethylene coated.
Insulation	: Expanded polyurethane.
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 - I	504	750 × 800 × 1,800	0.3	0.4
6 - II	887	1,210 × 800 × 1,800	0.45	0.4
6 - III	1,062	1,460 × 800 × 1,800	0.52	0.4
6 - IV	1,346	1,795 × 800 × 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



B	KITCHEN	7/23	EQUIPMENT LIST	7/17
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NAME	Single Bowl Sink
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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, L 3 × 40 × 40 m/m
Under Shelf	: Stainless Steel SUS. 430 Channel.
Adjustable leg:	Stainless Steel SUS. 304.
Drainage	: 50 A (2 inche) with over flow.
Spare Parts	: ---
Note: *** All sink shall have back splash gurd which placed wall side.	

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
7 - 0, I, II	Dim. 750 × 750 × 850 m/m	0.1	0
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	8/23	EQUIPMENT LIST	8/17
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NAME	Double Bowl Sink
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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, L 3 × 40 × 40 Angle
Under Shelf	: Stainless Steel SUS. 430 Channel.
Adjustable Leg	: Stainless Steel SUS. 304.
Drain	: 50 A (2 inches) with over flow.
Spare Parts	: ---
Note: *** All sink shall have back splash gurd which placed wall side.	

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
8 - 0 ~ V	Dim. 1,500 × 750 × 850 m/m	0.16	
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	9/23	EQUIPMENT LIST	9/17
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NAME	Triple Bowl Sink
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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 × 40 × 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.	

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
9 - 0 ~ V	Dim. 2,250 × 750 × 850 m/m	0.3	0
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	10/23	EQUIPMENT LIST	10/17
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NAME	Work Table
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TECHNICAL DATA	
Top Plate	: Stainless Steel 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	: ---
<p>Note: All work table, include mobile table, shall have splash back gurd which placed wall side.</p>	

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

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	11/23	EQUIPMENT LIST	11/17
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NAME	Mobile Table
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TECHNICAL DATA
<p>Top Plate : Stainless Steel SUS. 430, t = 1.2 m/m</p> <p>Leg : Stainless Steel SUS. 430 Angle L 3 × 40 × 40</p> <p>Under Shelf: Stainless Steel SUS. 430 Channel t = 1.0 m/m</p> <p>Caster : 4 Swivel Caster <math>\phi</math> 125 m/m (5 inches)</p> <p style="padding-left: 40px;">* 2 of them, with stopper.</p> <p>Spare Parts: ---</p>

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
11 - 1 ~ V	Dim. 1,500 × 750 × 850 m/m	0.18	0
REMARKS			

Weight; Top - Gross shipping weight  
 Bottom - Net weight

B	KITCHEN	12/23	EQUIPMENT LIST	12/17
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NAME	Pot & Pan Rack (4 shelves), Assembly Type
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TECHNICAL DATA

Shelf : Stainless Steel SUS. 430, t = 1.0 m/m, Dynafomed.  
 Leg : Stainless Steel Pipe SUS. 430,  $\phi$  32 with Adjust ball.

Spare Parts: ---

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
12 - 0 ~ V	Dim. 1,500 × 600 × 1,800 m/m	0.13	0
REMARKS			

Weight; Top - Gross shipping weight  
 Bottom - Net weight

B	KITCHEN	13/23	EQUIPMENT LIST	13/17
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NAME	Dish Washing Machine (Steam)
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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	: Steel channel.
Adjust Ball	: Stainless steel SUS. 304.
Pump Motor	: Pre-wash 0.75 kw, power wash 0.75 kw
Conveyor Driving Motor	: 0.4 kw.
Control System	: Assembled in water-protected stainless steel enclosure.
Electricity	: 3p 220V
Max.Steam Pressure	: 2 kg/cm <sup>2</sup>
Standard Accessory	: Detergent dispenser, steam booster & rinse injector, and 3 washing basket.
Spare Parts	: 1 magnet switch, 2 pilot lump, 1 thermo-meter, 2 push button switch.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
13 - IV, V	As above. Steam consumption: 85 kg/Hr	1.2	1.9
REMARKS	Steam pressure : 2 kg/cm <sup>2</sup> . Steam consumption: 85 kg/Hr.		

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	14/23	EQUIPMENT LIST	14/17
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NAME	Sterilizing Sink (Boiled type, Steam)
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TECHNICAL DATA	
Structure	: Bottom of stainless steel sink, inner-housing shall be equipped 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 × 40 × 40 m/m
Steam Coil	: Cooper tube $\phi$ 9.0 m/m
Basket	: Stainless steel wire SUS. 304, 2 pcs.
Max. Steam Pressure:	2 kg/cm <sup>2</sup>
Spare Parts	: ---

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
14 - IV, V	Dim. 1,500 × 750 × 850 m/m Steam consumption: 45 kg/Hr.	0.17	0
REMARKS	Steam consumption: 45 kgs/Hr. Steam pressure : 2 kgs/cm <sup>2</sup> .		

Weight; Top - Gross shipping weight  
Bottom - Net weight



B	KITCHEN	15/23	EQUIPMENT LIST	15/17
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NAME	Sterilising Sink (Kerosene heated)
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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 × 40 × 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 - VIII	Dim. 750 × 750 × 850 m/m Kerosene consumption: 0.5 ~ 3 l/Hr	0.13	0.1
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	16/23	EQUIPMENT LIST	16/17
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NAME	Dish Wagon (24 trays cap)
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TECHNICAL DATA	
Structure	: Unit shall be assembled by 6 wire shelves, 2 posts, 1 dolly, 1 top plate and 2 acryl side boards.
Shelves	: Steel wire $\phi$ 4.5 m/m, crome plated.
Post	: "
Dolly	: Alminum plate t = 2.5 m/m, 4 caster, 4 corner bumper.
Top plate	: Alminum plate t = 2.5 m/m 1.5 m/m.
Spare Parts: 2 shutter.	

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
16 - 00V	Dim. 1,220 x 830 x 1,650 m/m	0.2	0
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

B	KITCHEN	17/23	EQUIPMENT LIST	17/17
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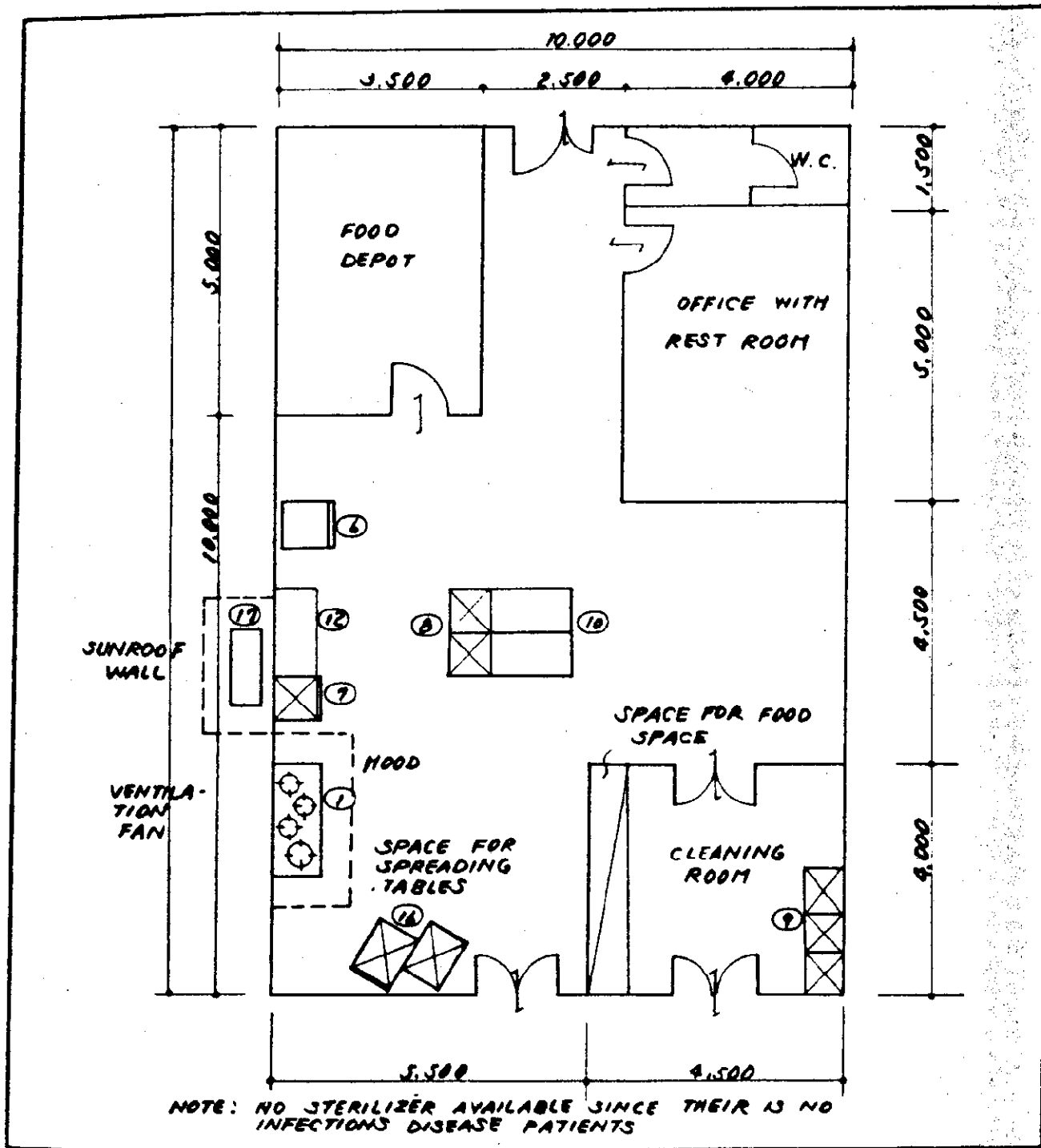
NAME	Oil (Kerosene) Injector
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TECHNICAL DATA	
Structure	: Tank shall be constructed by steel plate of thickness 2.3 m/m and fixed on a frame which constructed by steel angle. Tank shall be rust-proof painted finish, and installed at such a place out 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	: $\phi$ 8 m/m copper tube is adopted for piping.
Gear pump	: A gear pump for injection of oil (kerosene) to the tank is provided additionally.
Electricity	: 1p 100v
Spare Parts	: ---

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
17 - 00II	Tank storage cap. 200 litre.	0.23	0.1
17 - III	Tank storage cap. 400 litre.	0.3	0.1
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

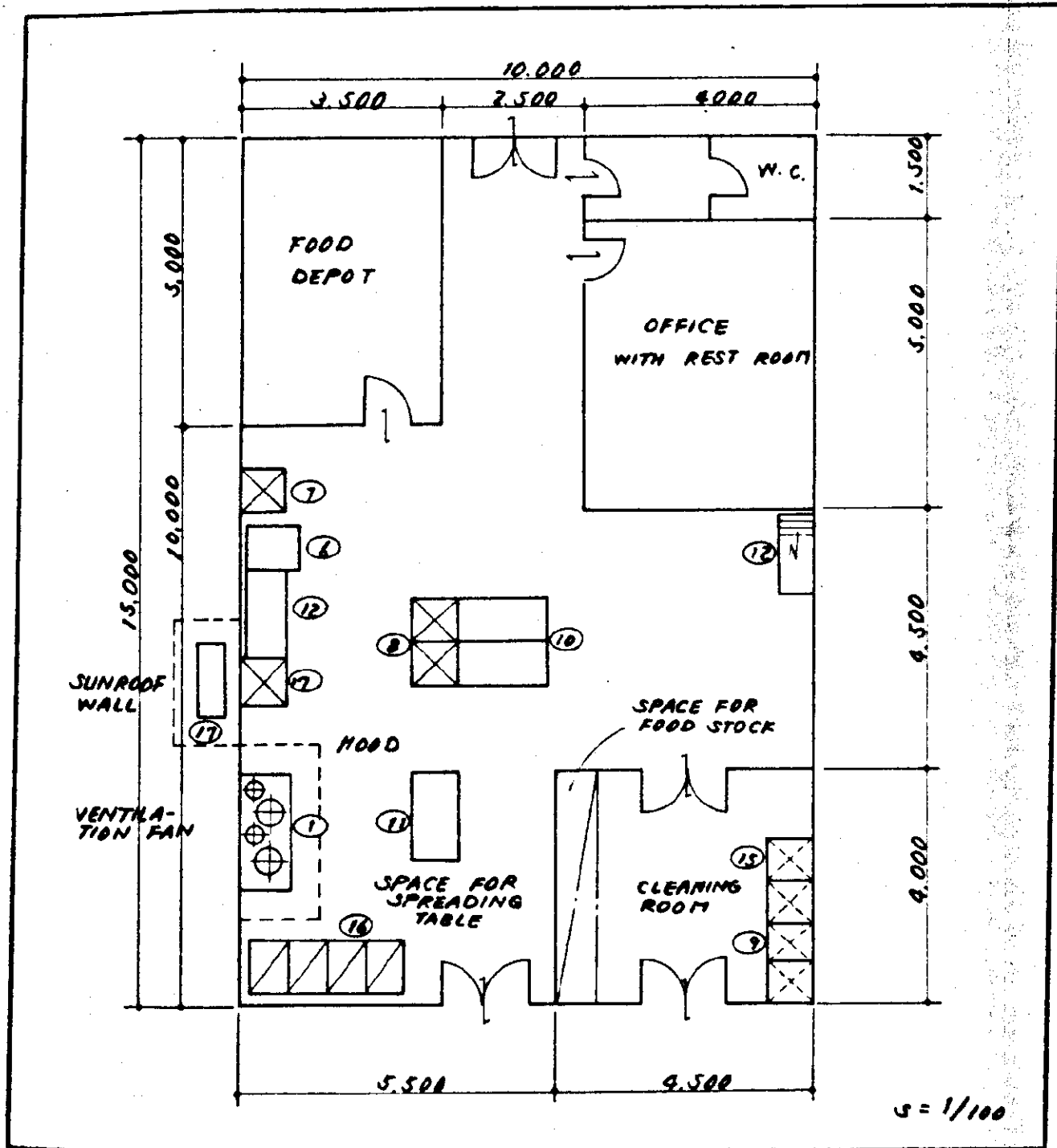
B	KITCHEN	18/23	Equipment list by Group Code	1/6	Group Code	K-0
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
1. Cooking table	1	1-0, I, III	0.4	0.2	
6. Refrigerator	1	6-0	0.26	0.3	
7. Single bath sink	1	7-0 II	0.1		
8. double sink	1	8-0 V	0.16		
9. three bath sink	1	9-0 V	0.3		
10. Kitchen table	2	10-0 V	0.18x2		
12. Rack	1	12-0 V	0.13		
16. Service table	2	16-0 V	0.2 x2		
17. Oil supply equipment	1	17-0 I	0.23	0.1	
Erection fee					
<b>Total</b>			2.34	0.6	

Building area	15,000 x 10,000	150 M <sup>2</sup>	Founda-tion	Max. 3 1/Hr x 4	12 1/Hr
Gross weight		2.3			
Electric capacity	16 - 100V	0.6 kW			

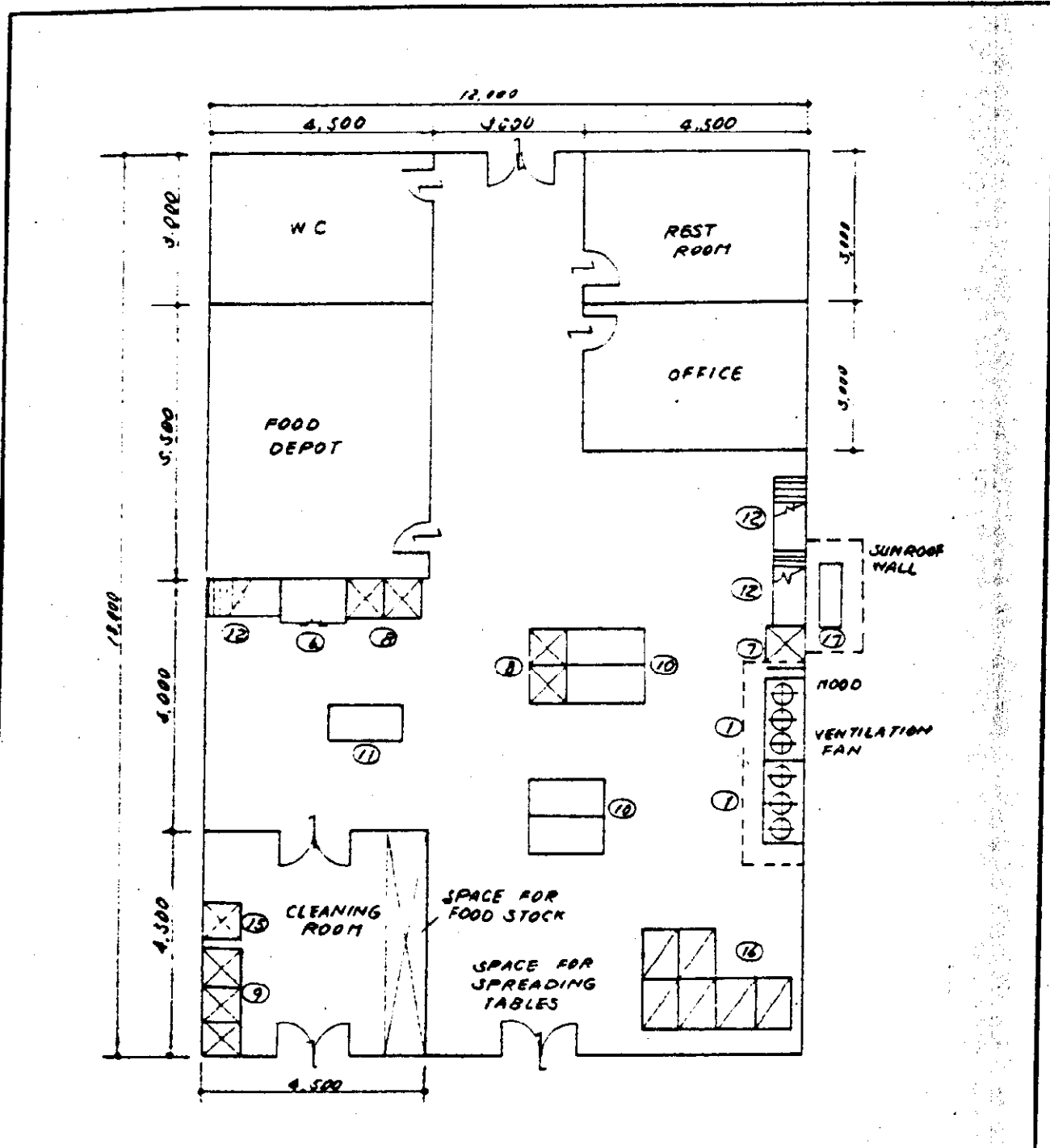
B	KITCHEN	19/23	Equipment List by Group Code	2/6	Group Code	K-I
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
1. Cooking table	1	1-0, I, III	0.4	0.2	
6. Refrigerator	1	6-I	0.3	0.4	
7. Single bath sink	2	7-0 II	0.1x2		
8. double sink	1	8-0 V	0.16		
9. three bath sink	1	9-0 V	0.3		
10. Kitchen tabl	2	10-0 V	0.18x2		
11. traveling table	1	11-I V	0.18		
12. Rack	2	12-0 V	0.13x2		
15. Sterilizer	1	15-I III	0.13	0.1	
16. Service table	4	16-0 V	0.2x4		
17. Oil supply equipment	1	17-0 II	0.23	0.1	
Erection fee					
<b>Total</b>			3.32	0.8	

Building area	15,000 x 10,000	150 M <sup>2</sup>	Founda-tion	Max. 3 l/Hr x 5	15 l/Hr.
Gross weight		3.3 t			
Electric capacity	1φ - 100V	0.8			

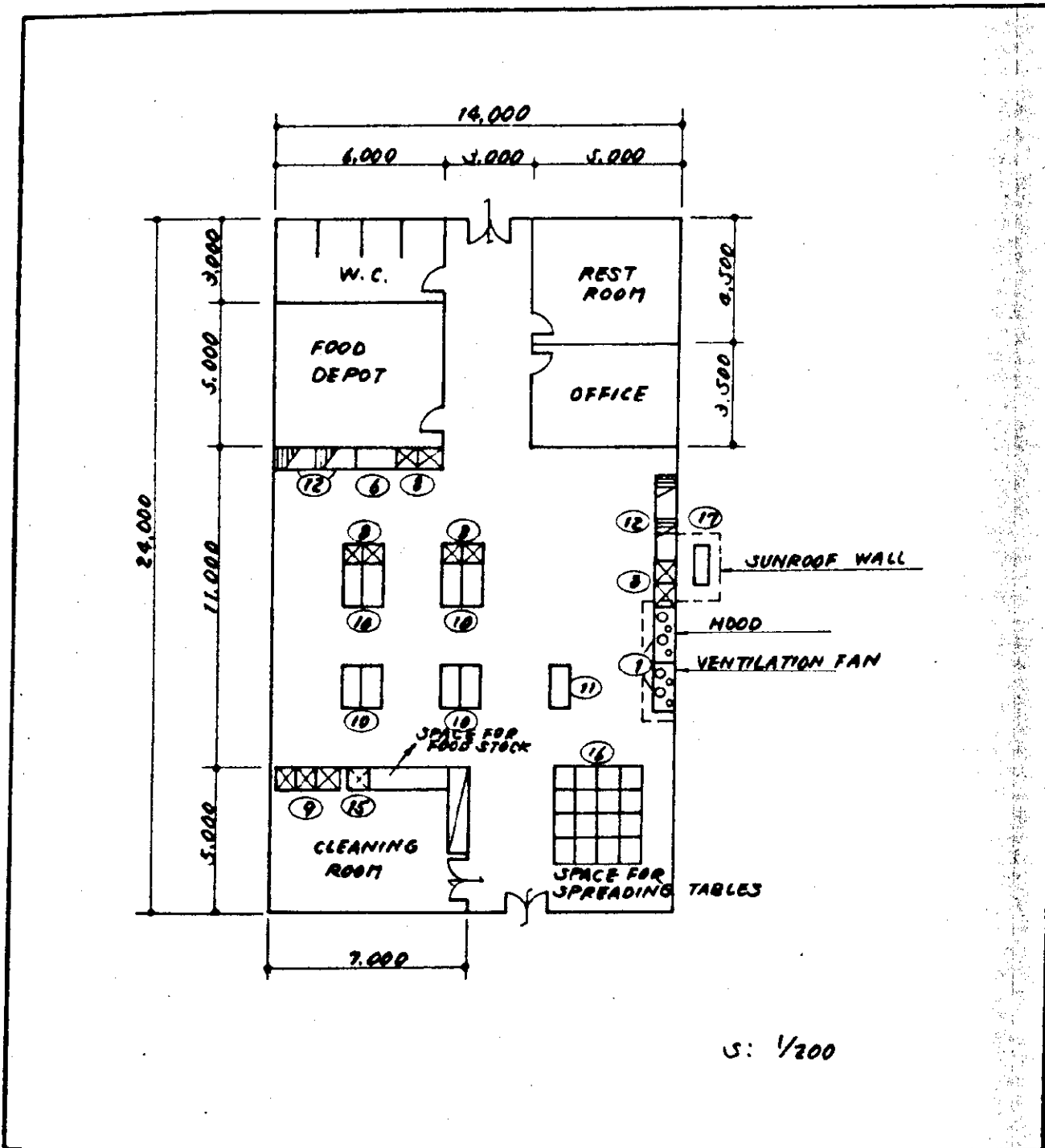
B	KITCHEN	20/23	Equipment List by Group Code	3/6	Group Code	K-II
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
1. Cooking table	2	I-II	0.32x2	0.2	
6. Refrigerator	1	6-II	0.45	0.4	
7. Single bath sink	1	7-0 II	0.1		
8. Double sink	2	8-0 V	0.16x2		
9. Three bath sink	1	9-0 V	0.3		
10. Kitchen table	4	10-0 V	0.18x4		
11. Traveling table	1	11-1 V	0.18		
12. Rack	3	12-0 V	0.13x3		
15. Sterilizer	1	15-I IV	0.13	0.1	
16. Service table	6	16-0 V	0.2x6		
17. Oil supply equipment	1	17-0 II	0.23	0.1	
Erection fee					
<b>Total</b>			4.66	0.8	

Building area	12,000 x 18,000	216 M <sup>2</sup>	Founda- tion	Max 3 1/Hr x 7	21 1/Hr
Gross weight		4.7 t			
Electric capacity	1 φ - 100V	0.8 kW			

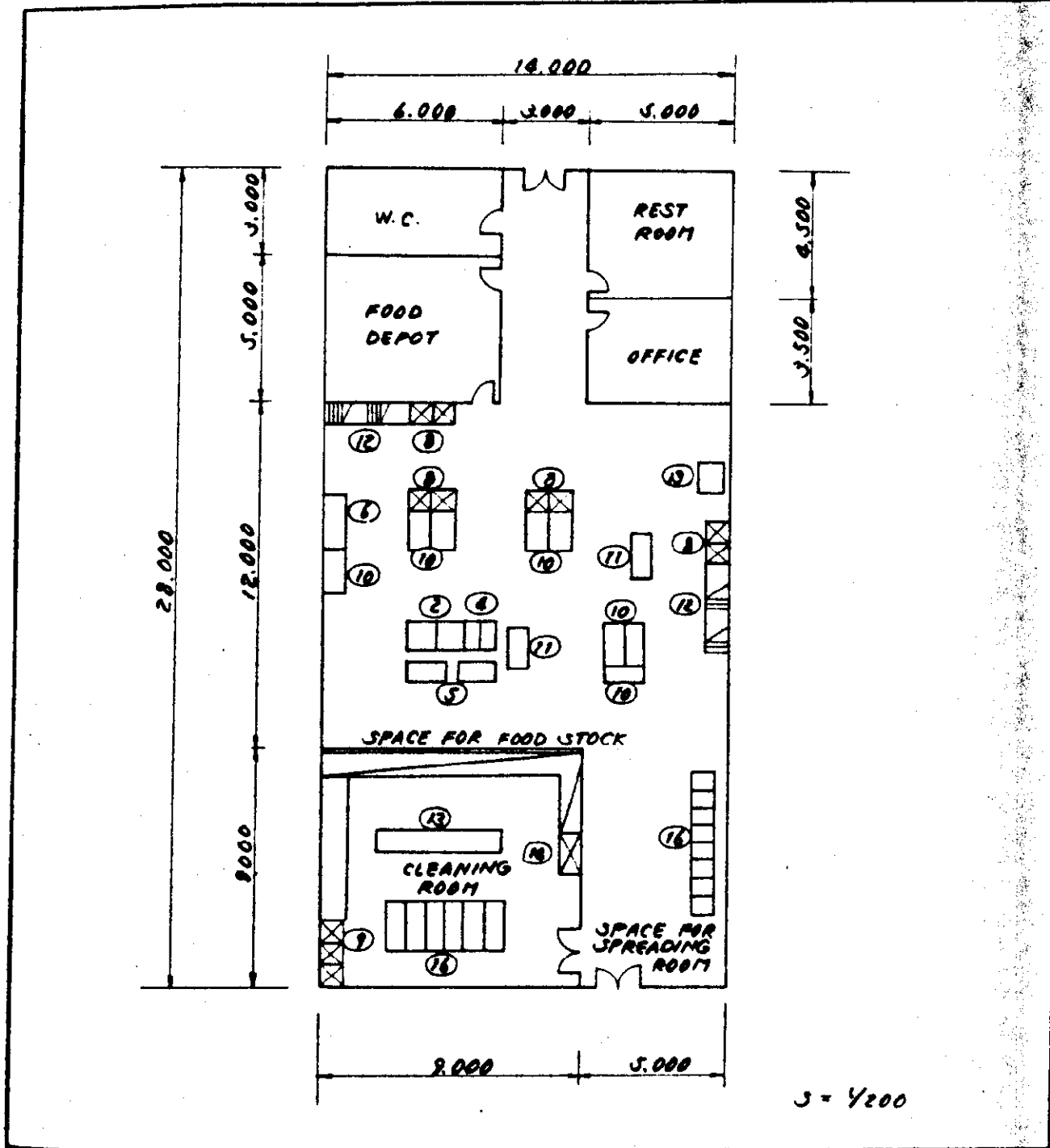
B	KITCHEN	21/23	Equipment List by Group Code	4/6	Group Code	K-III
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
1. Cooking table	2	1-0, I, III	0.4x2	0.2	
6. Refrigerator	1	6-III	0.32	0.4	
8. Double sink	4	8-0 V	0.16x4		
9. Three bath sink	1	9-0 III	0.3		
10. Kitchen table	8	10-0 V	0.18x8		
11. Traveling table	1	11-I V	0.18		
12. Rack	4	12-I V	0.13x4		
15. Sterilizer	1	15-I, III	0.13	0.1	
16. Service table	16	16-0 V	0.2x16		
17. Oil supply equipment	1	17-III	0.3	0.1	
Erection fee					
<b>Total</b>			8.03	0.8	

Building area	14,000 x 24,000	336 M <sup>2</sup>	Founda-tion	Max. 3 1/Hr x 9	27 1/Hr
Gross weight		8.0 t			
Electric capacity	1 φ - 100V	0.8 kW			

B	KITCHEN	22/23	Equipment list by Group Code	5/6	Group Code	K-IV
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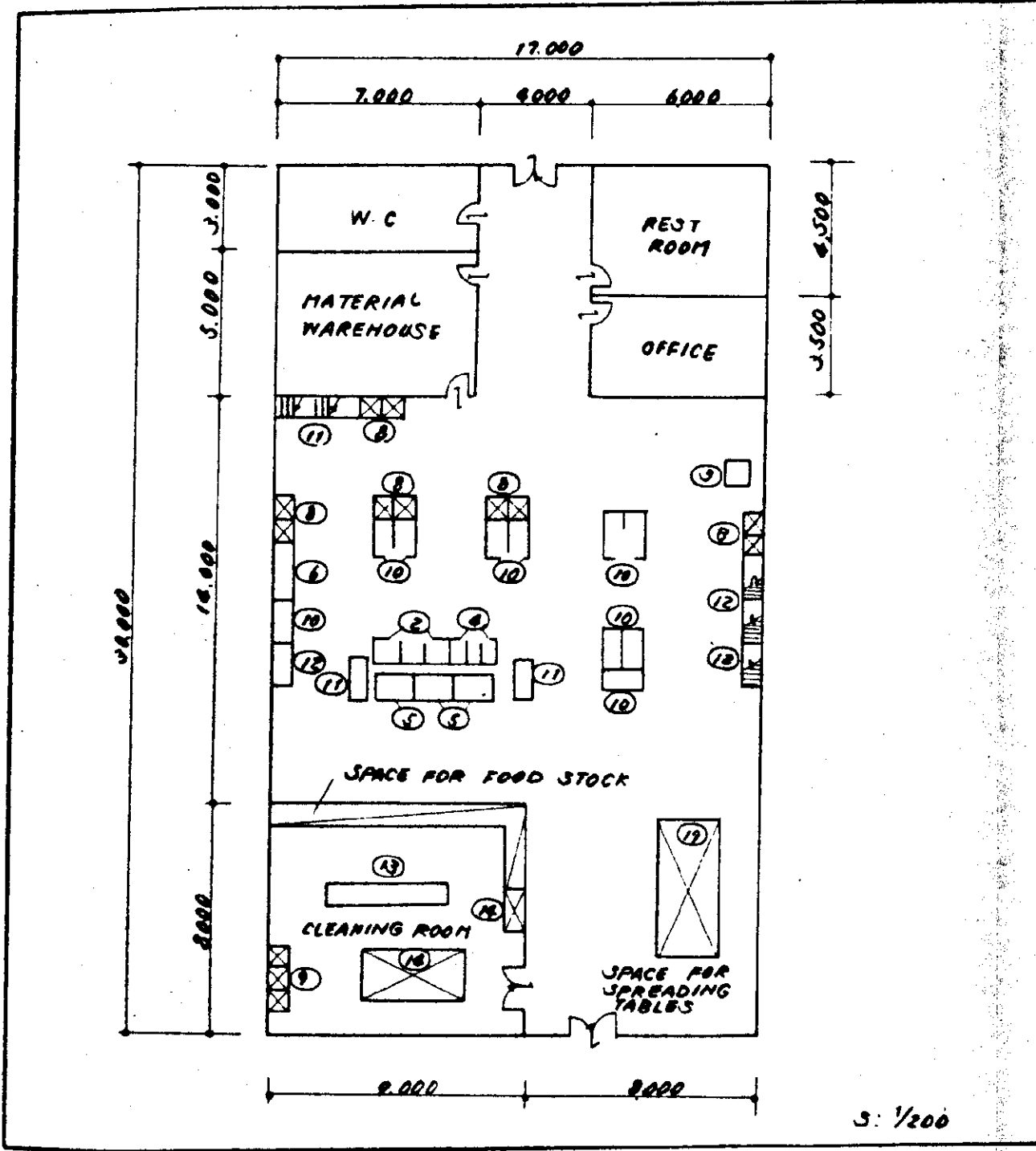


Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
2. Cocking table	2	2-IV,V	0.3x2	2/220/30	
3. Rice cooker	1	3-IV	1.2	1/100/0.1	
4. Flyer	2	4-IV,V	0.3x2	3/220/18	
5. Tilting pan	2	5-IV,V	0.42x2	3/220/30	
6. Refrigerator	1	6-IV	0.6	1/100/0.4	
8. Double sink	4	8-0 V	0.16x4		
9. Three bath sink	1	9-0 V	0.3		
10. Kitchen table	8	0-0 V	0.18x8		
11. Traveling table	2	1-I V	0.18x2		
12. Rack	4	12-0 V	0.13x4		
13. Cleaner	1	13-IV, V	1.2	3/220/1.9	
14. Sterilizer	1	14-IV, V	0.17		
16. Service table	20	16-0 V	0.2x20		
Erection fee					
<b>Total</b>			12.47	1/100/0.5 3/220/19.9	

Building area	14,000 x 28,000	392 M <sup>2</sup>	Founda- tion	
Gross weight		12.5 t		
Electric capacity	1 φ - 100V 3 φ - 220V	0.5 kW 79.9		



B	KITCHEN	23/23	Equipment List by Group Code	6/6	Group Code	K-V
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Equipment List				
Name of Equipment	Q'ty	Specification		
		Code	Weight	Power
2. Cooking table	3	2-IV,V	0.3x3	3/220/45
3. Rice cooker	1	3-V	1.6	1/100/0.1
4. Flyer	3	4-IV,V	0.3x3	3/220/27
5. Tilting pan	3	5-IV,V	0.42x3	3/220/45
6. Refrigerator	1	6-V	0.7	1/100/0.5
8. Double sink	5	8-0 V	0.16x5	
9. Three bath sink	1	9-0 V	0.3	
10. Kitchen table	10	10-0 V	0.18x10	
11. Traveling table	2	11-1 V	0.18x2	
12. Rack	6	12-0 V	0.13x6	
13. Cleaner	1	13-IV, V	1.2	3/220/1.9
14. Sterilizer	1	14-IV, V	0.17	
16. Service table	30	16-0 V	0.2x30	
Erection fee				
<b>Total</b>			16.77t	1/100/0.6 3/220/18.9

Building area	17,000 x 30,000	510 M <sup>2</sup>	Founda-tion	
Gross weight		16.8 t		
Electric capacity	1 φ - 100V 3 φ - 220V	0.6 kW 118.9		

5-4 Laundry (C)

C	LAUNDRY	1/24	EQUIPMENT LIST	1/19
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NAME	Laundry Washer
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TECHNICAL DATA	
Type	: Side Loading.
Dry Weight Capacity	: 10 ~ 20 kg/load.
Cylinder	: Size = 660 $\phi$ × 760 mm. : Material = SUS-304 t = 1.0 : R.P.M. = 32 rpm.
Tub	: Size = 750 $\phi$ × 900 mm. : Material = SUS-304 t = 0.8
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 button, Inching button, Timer, Soap inlet, Indicator lamp, Door limit switch, Buzzer, Water inlet valve and Drain cock.
Spare Parts	: Quantity-2 Laundry timer. Quantity-2 V-belt, A-31. 2 Magnetic switch. 1 Push button switch. 2 Micro switch. 1 Thermometer. 1 Water level tube. 2 Water level tube packing. 4 Fuse. 4 Pilot lamp bulb. 2 V-belt, A-81.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
1 - I	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 m <sup>3</sup> /Hr. Approx. shipping weight ..... 400 kg " loading weight ..... 450 kg " measurement ..... 70cft		0.75 kw
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm.		

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	2/24	EQUIPMENT LIST	2/19
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NAME	Laundry Washer
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TECHNICAL DATA	
Type	: Side Loading.
Dry Weight Capacity:	20 ~ 30 kg/load.
Cylinder	: Size = 720 $\phi$ $\times$ 820 mm. : Material = SUS-304 t = 1.0 : R.P.M. = 30 rpm.
Tub	: Size = 820 $\phi$ $\times$ 1,000 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. 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 - II, III	Dimension : 1,495(W) $\times$ 985(D) $\times$ 1,185(H)mm. Machine Weight : 450 kg. Water Inlet : 1 1/4 B Drain Valve : 100 $\phi$ mm. Water Consumption: 1.0 m <sup>3</sup> /Hr.  Approx. shipping weight ..... 600 kg " loading weight ..... 720 kg " measurement ..... 110cft		0.75 kw
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm. Drain Pit : 500(W) $\times$ 500(D) $\times$ 500(H) mm.		

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	3/24	EQUIPMENT LIST	3/19
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NAME	Laundry Washer
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TECHNICAL DATA	
Type	: Side Loading.
Dry Weight Capacity:	: 35 ~ 45 kg/load.
Cylinder	: Size = 805 $\phi$ x 1,020 mm.
	: Material = SUS-304 t = 1.0
	: R.P.M. = 25 rpm.
Tub	: Size = 910 $\phi$ x 1,220 mm.
	: Material = SUS-304 t = 1.2
Electricity	: 220/380-v, 50-Hz, 3-Phase.
Motor	: 1.5 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-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)
3 - IV, V	Dimension : 1,720(W) x 1,075(D) x 1,280(H)mm.		1.5 kw
	Machine Weight : 550 kg.		
	Water Inlet : 1 1/4 B		
	Steam Inlet : 3/4 B		
	Drain Valve : 100 $\phi$ mm.		
	Water Consumption: 1.5 m /Hr.		
	Steam Pressure : 5 ~ 6 kg/cm <sup>2</sup>		
Steam Consumption: 60 kg/Hr.			
Approx. shipping weight	750 kg		
" loading weight	960 kg		
" measurement	150cft		
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm. Drain Pit : 500(W) x 500(D) x 500(H) mm.		

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	4/24	EQUIPMENT LIST	4/19
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NAME	Laundry Extractor
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TECHNICAL DATA	
Type	: Centrifugal.
Dry Weight Capacity:	10 ~ 16 kg/load.
Basket	: Size = 558 $\phi$ $\times$ 250 mm. : Material = SUS-304 t = 1.6 : R.P.M. = 1,650 rpm.
Outer Shell	: Material = SS-41
G-Force	: 850 G.
Electricity	: 220/380-V, 50-Hz, 3-Phase.
Motor	: 1.5 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, 6308ZZ. 2 Bearing, 6309ZZ. 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)
4 - I	Dimension : 990(W) $\times$ 1,195(D) $\times$ 610(H) mm. Machine Weight: 320 kg. Drain : 70 $\phi$ mm. Approx. shipping weight ..... 450 kg " loading weight ..... 360 kg " measurement ..... 50cft		1.5 kw
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm. Drain Pit : 200(W) $\times$ 500(H) mm.		

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	5/24	EQUIPMENT LIST	5/19
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NAME	Laundry Extractor
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TECHNICAL DATA

Type : Centrifugal.  
 Dry Weight Capacity: 20 ~ 25 kg/load.  
 Basket : Size = 658  $\phi$   $\times$  295 mm.  
           : Material = SUS-304  
           : R.P.M. = 1,400 rpm.  
 Outer Shell : Material = SS-41  
 G-Force : 750 G.  
 Electricity : 220/380-V, 50-Hz, 3-Phase.  
 Motor : 1.5 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, 6309ZZ.  
                                   2 Bearing, 6310ZZ.  
                                   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)
5 - II, III	Dimension : 1,065(W) $\times$ 1,305(D) $\times$ 670(H) mm. Machine Weight: 420 kg. Drain : 70 $\phi$ mm. Approx. shipping weight ..... " loading weight ..... " measurement .....	550 kg 480 kg 70cft	1.5 kw
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm. Drain Pit : 200(W) $\times$ 500(H) mm.		

Weight; Top - Gross shipping weight  
 Bottom - Net weight

C	LAUNDRY	6/24	EQUIPMENT LIST	6/19
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NAME	Laundry Extractor
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TECHNICAL DATA	
Type	: Centrifugal.
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, 6311ZZ. 2 Bearing, 6312ZZ. 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)
6 - IV,V	Dimension : 1,310(W) $\times$ 1,645(D) $\times$ 790(H) mm. Machine Weight: 860 kg. Drain : 100 $\phi$ mm. Approx. shipping weight ..... " loading weight ..... " measurement .....	1.000kg 960kg 105 cft	3.7 kw
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm. Drain Pit : 200(W) $\times$ 500(H) mm.		

Weight; Top - Gross shipping weight  
Bottom - Net weight

NAME	Drying Tumbler
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**TECHNICAL DATA**

Type : Steam.  
 Dry Weight Capacity: 20 kg/load.  
 Cylinder : Size = 930  $\phi$  × 750 mm.  
           : Material = SS-41 (Galvanized)  
           : R.P.M. = 35 rpm.  
 Outer Shell : Material = SS-41.  
 Electricity : 220/380-V, 50-Hz, 3-Phase.  
 Motor : Drive = 0.4 kw, 4-P.  
        : Fan = 0.2 kw, 4-P.  
 Heater Radiation : 16 m<sup>2</sup>  
 Fan Capacity : Air volume = 20 ~ 26 m<sup>3</sup>/min.  
               : Static air pressure = 25 ~ 35 mmAq.  
 Operation : Clock type timer and reversing cylinder. Power transmitted by V-belts.  
 Accessories : Thermometer, Steam pressure gauge, Switch, Timer, Pilot lamp, Air control lever, Lint screen and Steam trap.  
 Spare Parts : Quantity-2 Magnetic switch.  
               1 Thermal relay.  
               2 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.		0.6 kw
	Machine Weight : 310 kg.		
	Steam Inlet : 1 B		
	"   Outlet : 3/4 B		
	"   Pressure : 5 ~ 6 kg/cm <sup>2</sup>		
	"   Consumption: 40 kg/Hr.		
	Duct Size : 200 $\phi$ mm.		
	Approx. shipping weight .....	450 kg	
	"   loading weight .....	340 kg	
	"   measurement .....	130cft	
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm. Ducting material include in the piping materials.		

Weight; Top - Gross shipping weight  
 Bottom - Net weight



C	LAUNDRY	8/24	EQUIPMENT LIST	8/19
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NAME	Flatwork Ironer
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TECHNICAL DATA	
Type	: Steam heated, Calender type.
Roll Speed	: 1.7 ~ 5.9 m/min.
Roll Size	: Heating roll = 400 $\phi$ $\times$ 2,000 mm. : Pressure roll = 160 $\phi$ $\times$ 2,000 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) $\times$ 1,250(D) $\times$ 1,050(H) mm. Machine Weight : 650 kg. Steam Inlet : 1 B " Outlet : 1/2 B " Pressure : 5 ~ 6 kg/cm <sup>2</sup> " Consumption: 60 ~ 85 kg/Hr. Approx. shipping weight ..... " loading weight ..... " measurement .....	1,000kg 650kg 200 cft	0.4 kw
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm.		

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	9/24	EQUIPMENT LIST	9/19
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NAME	Flatwork Ironer
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TECHNICAL DATA	
Type	: Steam heated, Calender type.
Roll Speed	: 2.2 ~ 7.7 m/min.
Roll Size	: Heating roll = 280 $\phi$ $\times$ 2,700 mm. : Pressure roll = 150 $\phi$ $\times$ 2,700 mm.
Electricity	: 220/380-V, 50-Hz, 3-Phase.
Motor	: 0.4 kw.
Operation	: Turn back type.
Accessories	: Front table, Safety finger guard plate, 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 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) $\times$ 1,000(D) $\times$ 1,500(H) mm. Machine Weight : 800 kg. Steam Inlet : 3/4 B. " Outlet : 1/2 B. " Pressure : 5 ~ 6 kg/cm <sup>2</sup> " Consumption: 70 ~ 100 kg/Hr.		0.4 kw
	Approx. shipping weight .....	1,900kg	
	" loading weight .....	800kg	
	" measurement .....	320	
		cft	
REMARKS	Foundation: Ballast = 300 mm. Concrete = 200 mm.		

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	10/24	EQUIPMENT LIST	10/19
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NAME	Ironing Board
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TECHNICAL DATA	
Table	: Perforated wooden top.
Legs	: Adjustable steel pipe.
Accessories	: Padding and Rack.

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

Weight; Top - Gross shipping weight  
 Bottom - Net weight

C	LAUNDRY	11/24	EQUIPMENT LIST	11/19
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NAME	Hand Iron
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TECHNICAL DATA	
Type	: 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.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
11 - I ~ V	Sole Plate Size: 150(W) × 220(L) mm. Net Weight : 6 kg.		1.35 kw
	Approx. shipping weight .....	7 kg	
	" loading weight .....	6 kg	
	" measurement .....	1cft	
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	12/24	EQUIPMENT LIST	12/19
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NAME	Sewing Machine
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TECHNICAL DATA	
Type	: One needle, lockstitch.
Accessories	: Table, Stand, Bobbin, Oiler, Hinge, Hemming presser foot, Screw driver, Both ended spanner and Needles.
Spare Parts	: Quantity-1 Spool assy. 1 Bobbin assy. 1 Thread winder assy. 1 Leather belt assy. 1 Needle bar 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	
	" loading weight .....	35 kg	
	" measurement .....	10cft	
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	13/24	EQUIPMENT LIST	13/19
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NAME	Work Table
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TECHNICAL DATA	
Table	: Wood coated with melamine resin.
Frame	: Made of steel pipe and adjustable legs.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
13 - I ~ V	Dimension: 1,350(W) × 750(D) × 690 - 820 (H) mm. Weight : 16 kg. Approx. shipping weight ..... 30 kg " loading weight ..... 16 kg " measurement ..... 10cft		
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	14/24	EQUIPMENT LIST	14/19
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NAME	Shelf
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TECHNICAL DATA	
Material	: Resin coated steel plate.
Number of Shelf Plate:	4, Adjustable.
Accessories	: 4 swivel rubber casters.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
14 - I ~ V	Dimension: 1,140(W) × 460(D) × 1,870(H) mm. Weight : 22 kg.		
	Approx. shipping weight .....	40 kg	
	" loading weight .....	22 kg	
	" measurement .....	10cft	
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	15/24	EQUIPMENT LIST	15/19
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NAME	Disinfection Tub
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TECHNICAL DATA	
Tub	: Compartment = 2. : Depth = 400 mm. : Material = SUS-304
Accessories	: Drain cooks and Adjustable legs.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
15 - I ~ V	Dimension: 1,800(W) × 1,200(D) × 800(H) mm. Weight : 60 kg. Approx. shipping weight ..... 170 kg " loading weight ..... 450 kg " measurement ..... 85cft		
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight



C	LAUNDRY	16/24	EQUIPMENT LIST	16/19
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NAME	Sink Tub
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TECHNICAL DATA	
Tub	: Compartment = 2. : Depth = 400 mm. : Material = SUS-304
Accessories	: Rack, Overflow, Plug and Adjustable legs.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
16 - I ~ V	Dimension: 1,800(W) × 600(D) × 800(H) mm. Weight : 45 kg. Approx. shipping weight ..... 110 kg " loading weight ..... 300 kg " measurement ..... 45cft		
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	17/24	EQUIPMENT LIST	17/19
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NAME	Sprayer
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TECHNICAL DATA	
HANDY TYPE.	
Capacity	: 1 liter.
Material	: Brass.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
17 - I ~ V	Dimension: 91 $\phi$ $\times$ 295(H) mm.		
	Weight : 1 kg.		
	Approx. shipping weight .....	2 kg	
	" loading weight .....	3 kg	
	" measurement .....	2cft	
REMARKS			

Weight; Top - Gross shipping weight  
 Bottom - Net weight

C	LAUNDRY	18/24	EQUIPMENT LIST	18/19
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NAME	Canvas Truck
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TECHNICAL DATA	
Material	: Steel pipe frame and canvas cloth.
Capacity	: 383 litter.
Accessories	: 2 swivel and 2 stationary rubber casters.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
18 - I C V	Dimension: 880(W) × 690(D) × 750(H) mm. Weight : 14 kg.		
	Approx. shipping weight .....	20 kg	
	" loading weight .....	50 kg	
	" measurement .....	20cft	
REMARKS			

Weight; Top - Gross shipping weight  
Bottom - Net weight

C	LAUNDRY	19/24	EQUIPMENT LIST	19/19
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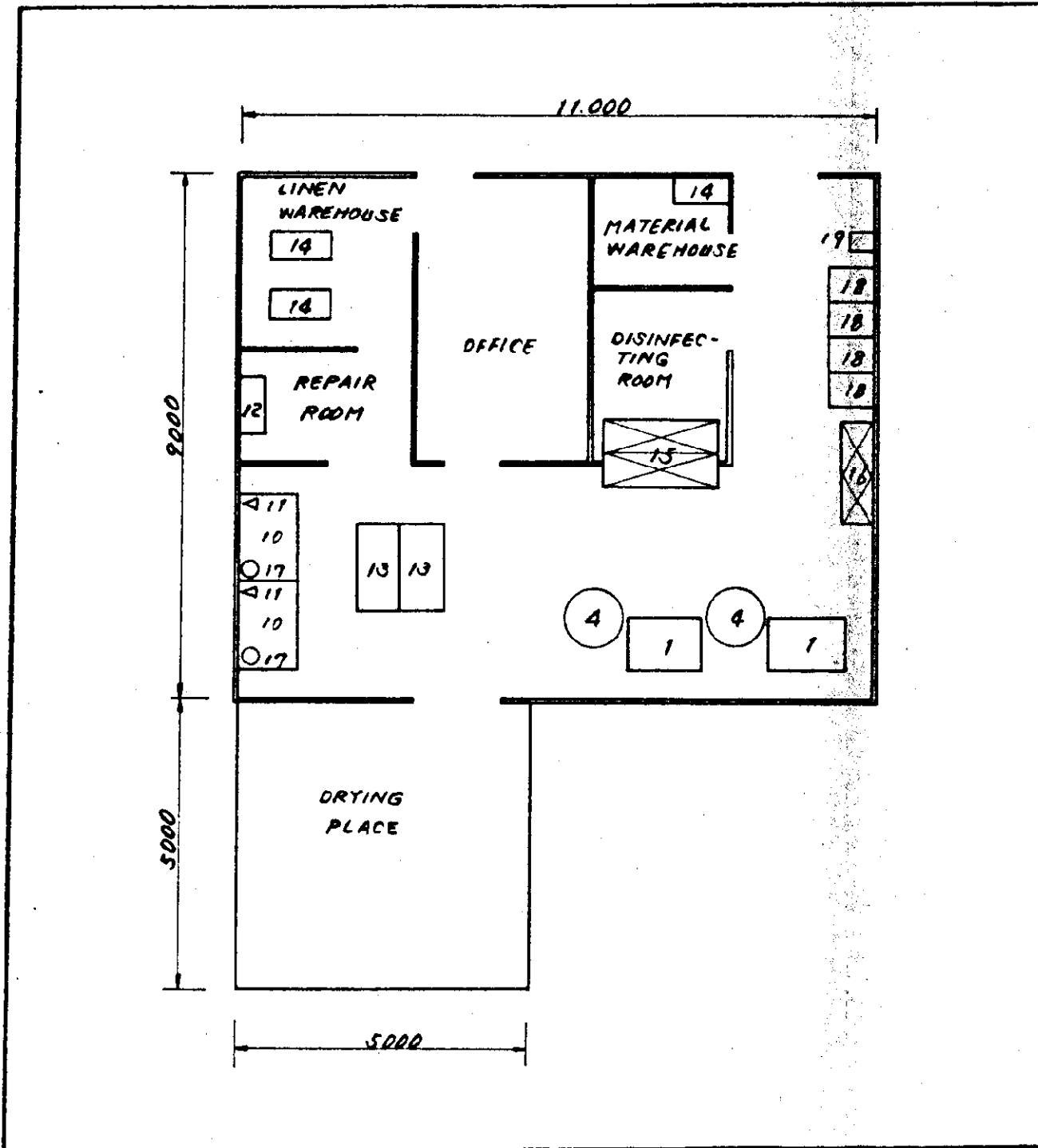
NAME	Scale
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TECHNICAL DATA	
Model	: A-100
Type	: Dial type.
Graduation	: 200 g.
Capacity	: 100 kg.
Plate Size	: 255(W) × 370(D) × 170(H) mm.
Dial Size	: 280 φ mm.
Accessories	: Adjust screw and Wheel.

ITEM NO.	SPECIFICATION	WEIGHT (T)	ELECTRIC CAPACITY (KW)
19 - I ~ V	Dimension: 300(W) × 450(D) × 1,305(H) mm		
	Weight : 40 kg.		
	Approx. shipping weight .....	55 kg	
	" loading weight .....	150 kg	
	" measurement .....	10cft	
REMARKS			

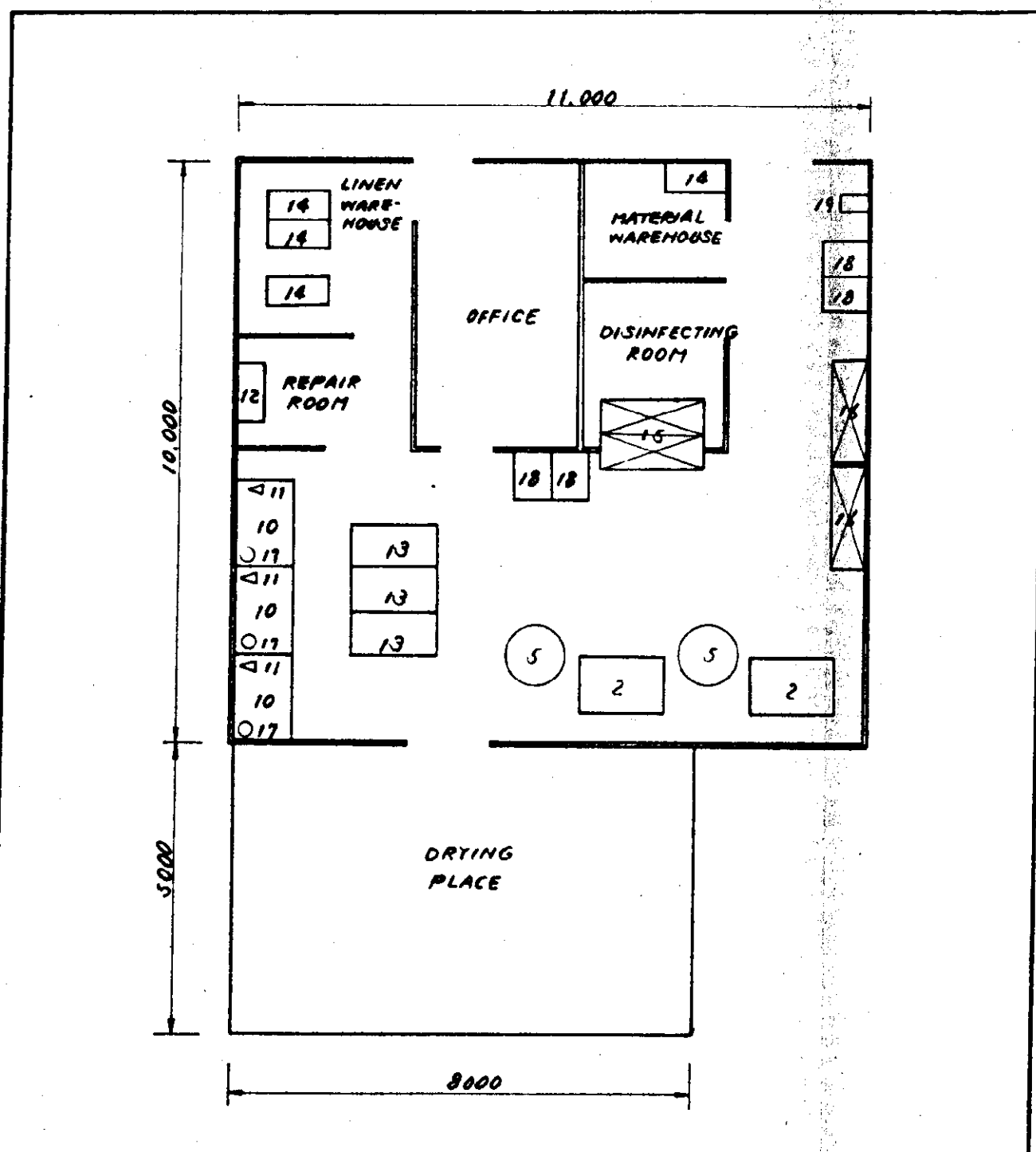
Weight; Top - Gross shipping weight  
Bottom - Net weight

C	Raundry	20/24	Equipment List by Group Code	1/5	Group Code	L - I
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Washing Machine	2	1-I	0.8	1.5	140
Dehydrater	2	4-I	0.9	3.0	100
Iron Table	2	10-I~V	0.1		20
Iron	2	11-I~V	0.02	2.7	2
Sewing Machine	1	12-I~V	0.05		10
Workbench	2	13-I~V	0.06		20
Pigeonhole	3	14-I~V	0.12		30
Disinfection Bath	1	15-I~V	0.17		85
Cleaning Bath	1	16-I~V	0.11		45
Sprayer	2	17-I~V	0		4
Wagon	4	18-I~V	0.08		80
Balance	1	19-I~V	0.06		10
Piping Insulating Materials	1 set		1.0		60
Solvents	1 set		0.1		30
Packaging and Exportation Cost	1 set				
Shipping Costs	1 set				
Sub Total			3.57		
Erection Fee	1 set				
<b>Total</b>			3.57	7.2	636

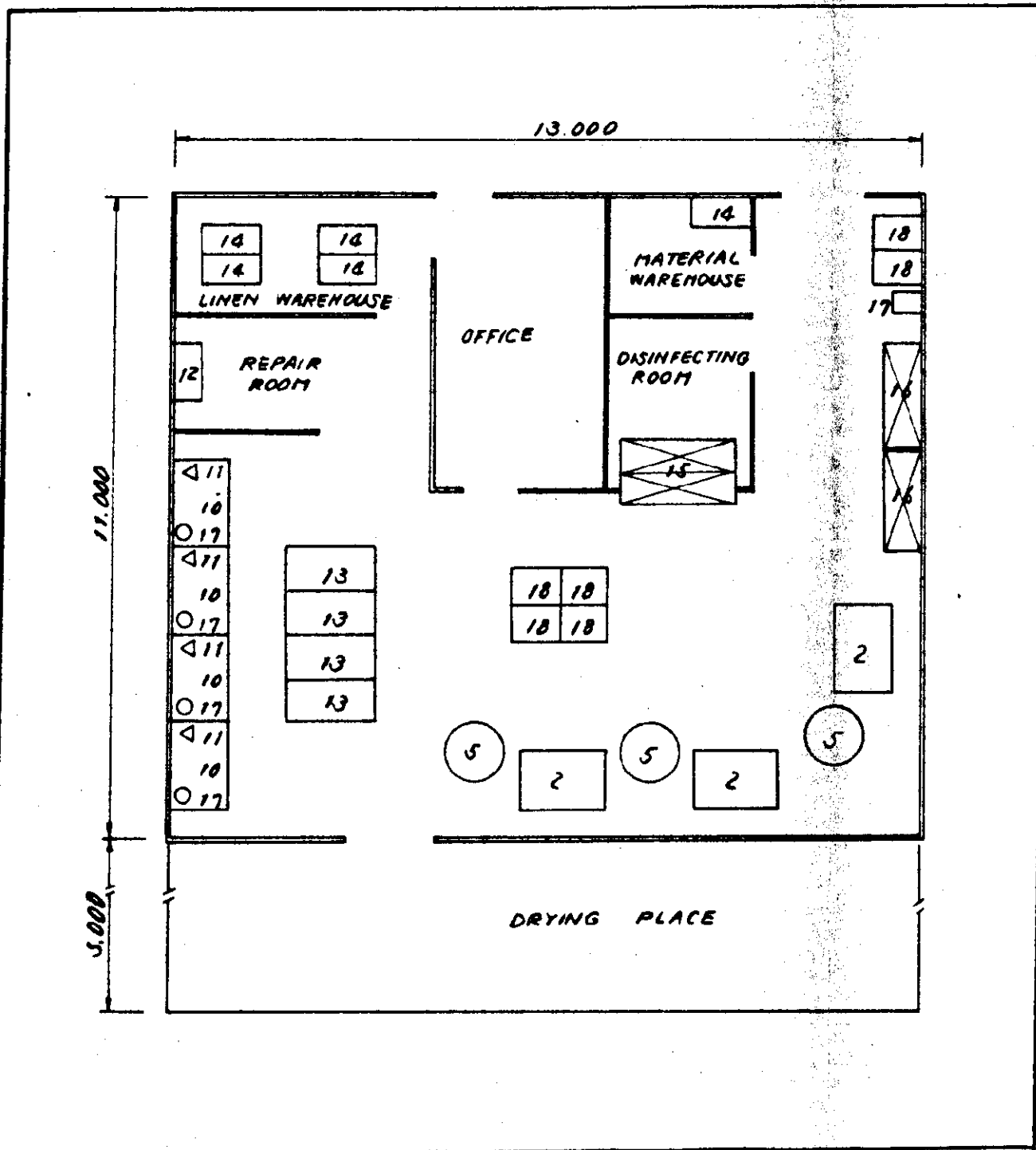
Building area	9 x 11	99.0 m <sup>2</sup>	Founda-tion	(18.01 m <sup>3</sup> )	636
Gross weight		3.6 t	Draying place		25.0 m <sup>2</sup>
Electric capacity	220 V 50 Hz 3 phase		Water con-sumption		1.2m <sup>3</sup> /h



Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Washing Machine	2	2-II III	1.2	1.5	220
Dehydrater	2	5-II III	1.1	3.0	140
Iron Table	3	10-IV	0.15		30
Iron	3	11-IV	0.02	4.05	3
Sewing Machine	1	12-IV	0.05		10
Workbench	3	13-IV	0.09		30
Pigeonhole	4	14-IV	0.16		40
Desinfection Bath	1	15-IV	0.17		85
Cleaning Bath	2	16-IV	0.22		90
Sprayer	3	17-IV	0		6
Wagon	4	18-IV	0.08		80
Balance	1	19-IV	0.06		10
Piping Insulating Material	1 set		1.0		60
Solvents	1 set		0.1		50
Packaging and Exportation Cost	1 set				
Shipping Cost	1 set				
Sub Total			4.4		
Erection Fee	1 set				
<b>Total</b>			4.4	8.55	854

Building area	10 x 11	110.0 m <sup>2</sup>	Foundation	(24.18 m <sup>3</sup> )	854
Gross weight		4.4 t	Drying place		40.0 m <sup>2</sup>
Electric capacity	220 V    50 Hz 3 phase	8.55 kW	Water consumption		2.0m <sup>3</sup> /h

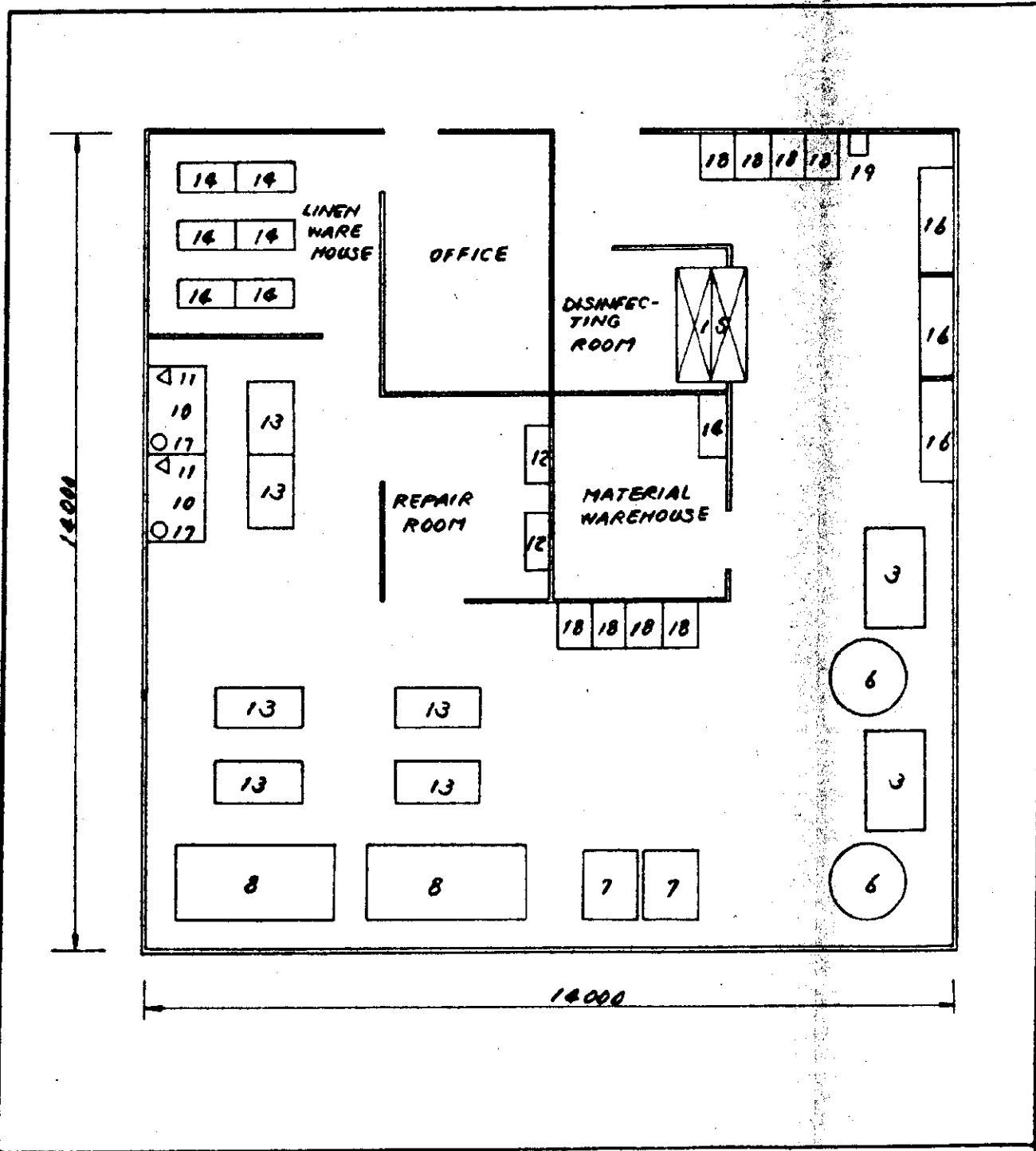
C	Raundry	22/24	Equipment List by Group Code	3/5	Group Code	L - III
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Washing Machine	3	2-IIIII	1.8	2.25	330
Dehydrater	3	5-IIIII	1.65	4.5	210
Iron Table	4	10-IVV	0.21		40
Iron	4	11-IVV	0.03	5.4	4
Sewing Machine	1	12-IVV	0.05		10
Workbench	4	13-IVV	0.12		40
Pigeonhole	5	14-IVV	0.2		50
Disinfection Bath	1	15-IVV	0.17		85
Cleaning Bath	2	16-IVV	0.22		90
Sprayer	4	17-IVV	0		8
Wagon	6	18-IVV	0.12		120
Balance	1	19-IVV	0.06		10
Piping Insulating Materials	1 set		1.0		80
Solvents	1 set		0.1		80
Packaging and Exportation Cost	1 set				
Shipping Costs	1 set				
Sub Total			5.73		
Erection Fee	1 set				
<b>Total</b>			<b>5.73</b>	<b>12.15</b>	<b>1,157</b>

Building area	11 x 13	143.0 m <sup>2</sup>	Founda-tion	(32.76 m <sup>3</sup> )	1,157
Gross weight		5.7 t	Draying place		65.0 m <sup>2</sup>
Electric capacity	220 V 50 Hz 3 phase	12.15 kW	Water con-sumption		3.0m <sup>3</sup> /h

C	Raundry	23/24	Equipment List by Group Code	4/5	Group Code	L - IV
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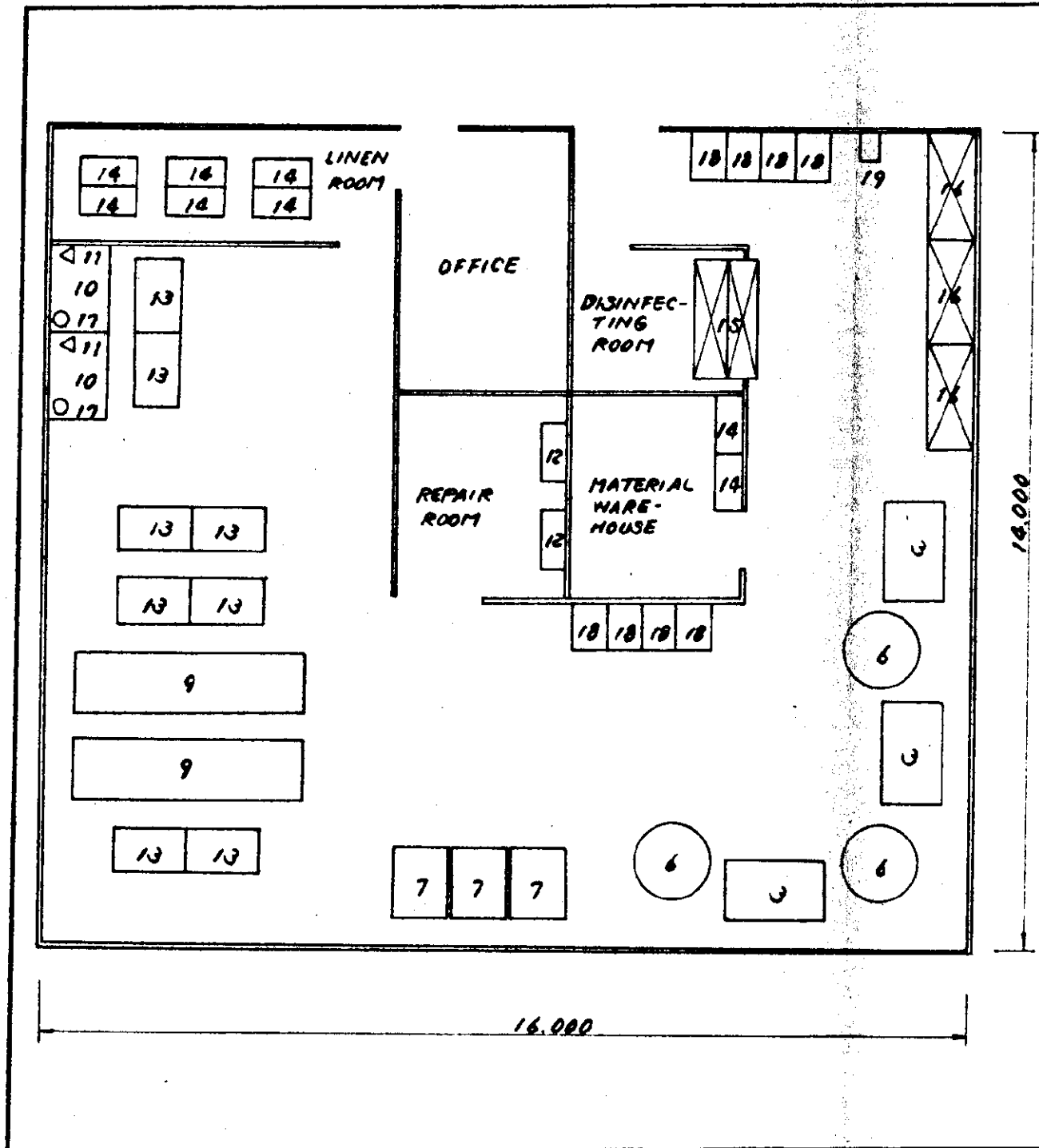


Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Washing Machine	2	3-IV.V	1.5	3.0	300
Dehydrater	2	6-IV.V	2.0	7.4	210
Dryer	2	7-IV.V	0.9	1.2	260
Sheet Roller	2	8-IV	2.0	0.8	400
Iron Table	2	10-IV.V	0.1		20
Iron	2	11-IV.V	0.02	2.7	2
Sewing Machine	2	12-IV.V	0.1		20
Workbench	6	13-IV.V	0.18		60
Pigeonhole	7	14-IV.V	0.28		70
Disinfection Bath	1	15-IV.V	0.17		85
Cleaning Bath	3	16-IV.V	0.33		135
Sprayer	2	17-IV.V	0		4
Wagon	8	18-IV.V	0.16		160
Balance	1	19-IV.V	0.06		10
Piping Insulating Materials	1 set		1.0		130
Solvents	1 set		0.1		100
Packaging and Exportation Costs	1 set				
Shipping Costs	1 set				
Sub Total			8.9		
Erection Fee	1 set				
<b>Total</b>			<b>8.9</b>	<b>15.1</b>	<b>1,966</b>

Building area	14 x 14	196.0 m <sup>2</sup>	Founda-tion	(55.39 m <sup>3</sup> )	1,966
Gross weight		8.9 t		5 ~ 6 kg/cm <sup>2</sup>	370 kg/h
Electric capacity	220 V 50 Hz 3 phase	15.1 kW	Water consumption		3.0 m <sup>3</sup> /h



C	Raundry	24/24	Equipment List by Group Code	5/5	Group Code	L - V
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Equipment List					
Name of Equipment	Q'ty	Specification			
		Code	Weight	Power	Others
Washing Machine	3	3-IV.V	2.25	4.5	450
Dehydrater	3	6-IV.V	3.0	11.1	315
Dryer	3	7-IV.V	1.35	1.8	390
Sheet Roller	2	9-V	3.8	0.8	640
Iron Table	2	10-IV	0.1		20
Iron	2	11-IV	0.02	2.7	2
Sewing Machine	2	12-IV	0.1		20
Workbench	8	13-IV	0.24		80
Pigeonhole	8	14-IV	0.32		80
Disinfection Bath	1	15-IV	0.17		85
Cleaning Bath	3	16-IV	0.33		135
Sprayer	2	17-IV	0		4
Wagon	8	18-IV	0.16		160
Balance	1	19-IV	0.06		10
Piping Insulating Materials	1 set		1.0		160
Solvents	1 set		0.1		150
Packaging and Exportation Costs	1 set				
Shipping Costs	1 set				
Sub Total			13.0		
Erection Fee	1 set				
<b>Total</b>			13.0	20.9	2,701

Building area	14 x 16	224.0 m <sup>2</sup>	Founda-tion	(75.92 m <sup>3</sup> )	2,701
Gross weight		13.0 t		5 ~ 6 kg/cm <sup>2</sup>	500 kg/h
Electric capacity	220 V 50 Hz 3 phase	20.9 kW	Water consumption		4.5m <sup>3</sup> /h