

Tower Clock System

Catalog

To:
VALUED CUSTOMER
INDONESIA

Date: 2 January 2023

Specifications

- Custom diameter 1 meter up to 30 meters
- Single Sides, Double sides, Multi sides
- Illumination at Night with Back Light of Dial (optional)
- Independent Clock / Master Clock System
- Bell Music Hour striking (optional)



<http://gfclock.yasapersada.com>



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Revision History

Date	Version	Description	Author
2 January 2023	0.1	Initial Draft	Anggono Basuki

Distribution Document

This document is to be distributed to:

Name	Title
Anggono Basuki	GFClock Yasa Persada
VALUED CUSTOMER INDONESIA	

Document Related

- N/A

Clock Movement- Specifications

GFA Series for 1 – 6 Meter Diameter

Two hands: Hour and Minute



Available for 1 - 6 Meter diameter of Dial

- ☐ Micro-processor based self-setting movement
- ☐ Ideal for open-air tower clock system
- ☐ All metal fabric with stepping motor
- ☐ Remote control enabled
- ☐ Compact design with multiple functions

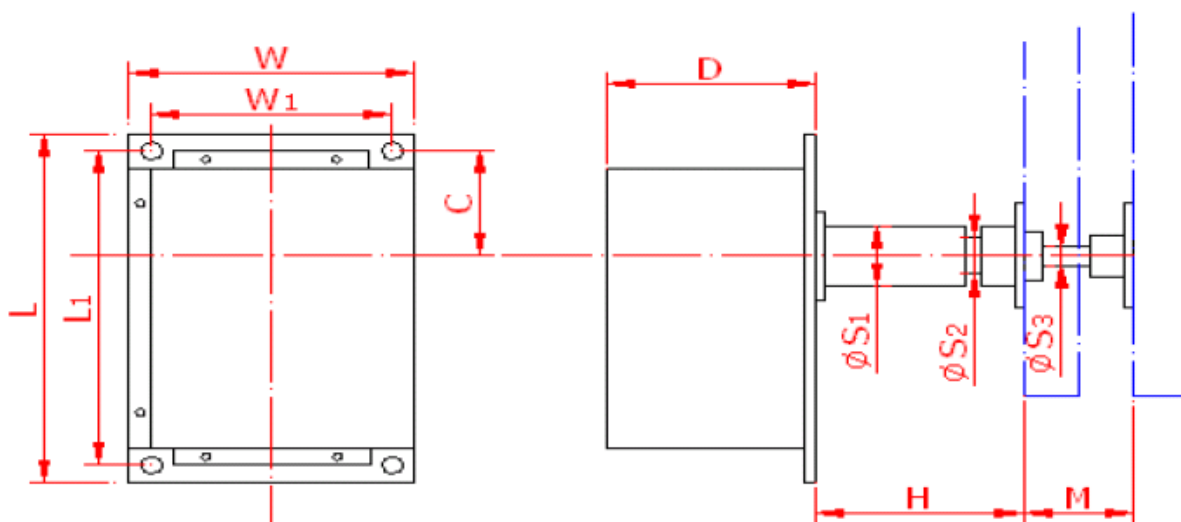
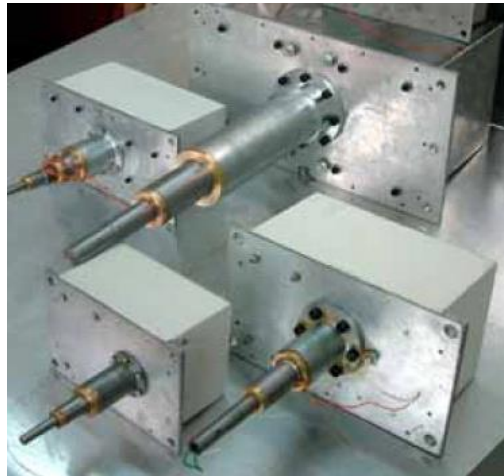
FEATURES

Microprocessor based open-air tower clock movement
Suitable for open-air dial diameter from 1.2m to 12m
Self-setting with master clock upon power recovery from failure
Controlled & synchronized by master clock or PC connected
Operation reservation upon power failure
High efficiency with low power consumption
Applicable with or w/o master clock and UT tower clock software

Tower Clock System

- OUTDOOR-USE DESIGN** : - Entirely metal fabric from internal parts to outer case (GFA12 is exceptional with ABS outer case)
- Dust-proof, anti-rust, and weather-resistant
- LOW CONSUMPTION** : - Lower power consumption by 50%
- HIGH EFFICIENCY** : - Cylinder & gears design enables high efficiency with low abrasion
- SELF-SETTING** : - Automatically synchronized with master clock
- TIME RESERVATION** : - 3 months' operation reservation enables auto correction to master clock's time on power recovery from a mains power failure
- WIRING** : - Ordinary double-twisted pair wire
- INTERFACE** : - RS485 output & input
- REMOTE OPERATION** : - Central supervised and controlled with master clock or PC
- No operation on movement needed
- Wiring distance to master clock or PC up to 1200m
- Feedback running status to master clock or PC
- TIME ACCURACY** : - 0.3 s/d at 25° (independent)
- HANDS ILLUMINATION** : - Hollow shafts design enables LED
- OTHER PARAMETER** : - Power supply DC 12V
- Shafts Hour & minute
- Working Temp. -30 – 85°
- Humidity 0 – 95%

DIMENSIONS



MODEL	W	W1	L	L1	D	C	S1	S2	S3	H	M
GFA12S	67	-	99	-	50	27	15	7	-	25	15
GFA25N	130	110	200	180	95	60	34	21	11	95	50
GFA25L	130	110	200	180	95	60	34	21	11	230	50
GFA40N	150	130	230	210	100	68	58	33	16	124	65
GFA40L	150	130	230	210	100	68	58	33	16	250	65
GFA60N	200	180	300	280	159	92	64	39	22	154	95
GFA60L	200	180	300	280	159	92	64	39	22	270	95

GFA Series

COMPARISON & SELECTION TABLE OF GFA MOVEMENT

MODEL	Dial Size (cm)	Dial Thickness (mm)	Hour Shaft Length (mm)	Hands Illumination	Operation	Buttons for Adjusting Hands
GFA12SFP	~ 120	~ 10	25	-	w/o Master	**
GFA12SFS	~ 120	~ 10	25	-	with Master	-
GFA12SFB	~ 120	~ 10	25	-	with or w/o Master	**
GFA12SHP	~ 120	~ 10	25	Enabled	w/o Master	**
GFA12SHS	~ 120	~ 10	25	Enabled	with Master	-
GFA12SHB	~ 120	~ 10	25	Enabled	with or w/o Master	**
GFA25NFP	120 ~ 250	~ 60	90	-	w/o Master	**
GFA25NFS	120 ~ 250	~ 60	90	-	with Master	-
GFA25NFB	120 ~ 250	~ 60	90	-	with or w/o Master	**
GFA25NHP	120 ~ 250	~ 60	90	Enabled	w/o Master	**
GFA25NHS	120 ~ 250	~ 60	90	Enabled	with Master	-
GFA25NHB	120 ~ 250	~ 60	90	Enabled	with or w/o Master	**
GFA25LFP	120 ~ 250	~ 200	230	-	w/o Master	**
GFA25LFS	120 ~ 250	~ 200	230	-	with Master	-
GFA25LFB	120 ~ 250	~ 200	230	-	with or w/o Master	**
GFA40NFP	250 ~ 400	~ 60	115	-	w/o Master	**
GFA40NFS	250 ~ 400	~ 60	115	-	with Master	-
GFA40NFB	250 ~ 400	~ 60	115	-	with or w/o Master	**
GFA40NHP	250 ~ 400	~ 60	115	Enabled	w/o Master	**
GFA40NHS	250 ~ 400	~ 60	115	Enabled	with Master	-
GFA40NHB	250 ~ 400	~ 60	115	Enabled	with or w/o Master	**
GFA40LFP	250 ~ 400	~ 200	263	-	w/o Master	**
GFA40LFS	250 ~ 400	~ 200	263	-	with Master	-
GFA40LFB	250 ~ 400	~ 200	263	-	with or w/o Master	**
GFA60NFP	400 ~ 600	~ 60	154	-	w/o Master	**
GFA60NFS	400 ~ 600	~ 60	154	-	with Master	-
GFA60NFB	400 ~ 600	~ 60	154	-	with or w/o Master	**
GFA60NHP	400 ~ 600	~ 60	154	Enabled	w/o Master	**
GFA60NHS	400 ~ 600	~ 60	154	Enabled	with Master	-
GFA60NHB	400 ~ 600	~ 60	154	Enabled	with or w/o Master	**
GFA60LFP	400 ~ 600	~ 200	270	-	w/o Master	**
GFA60LFS	400 ~ 600	~ 200	270	-	with Master	-
GFA60LFB	400 ~ 600	~ 200	270	-	with or w/o Master	**

Note:

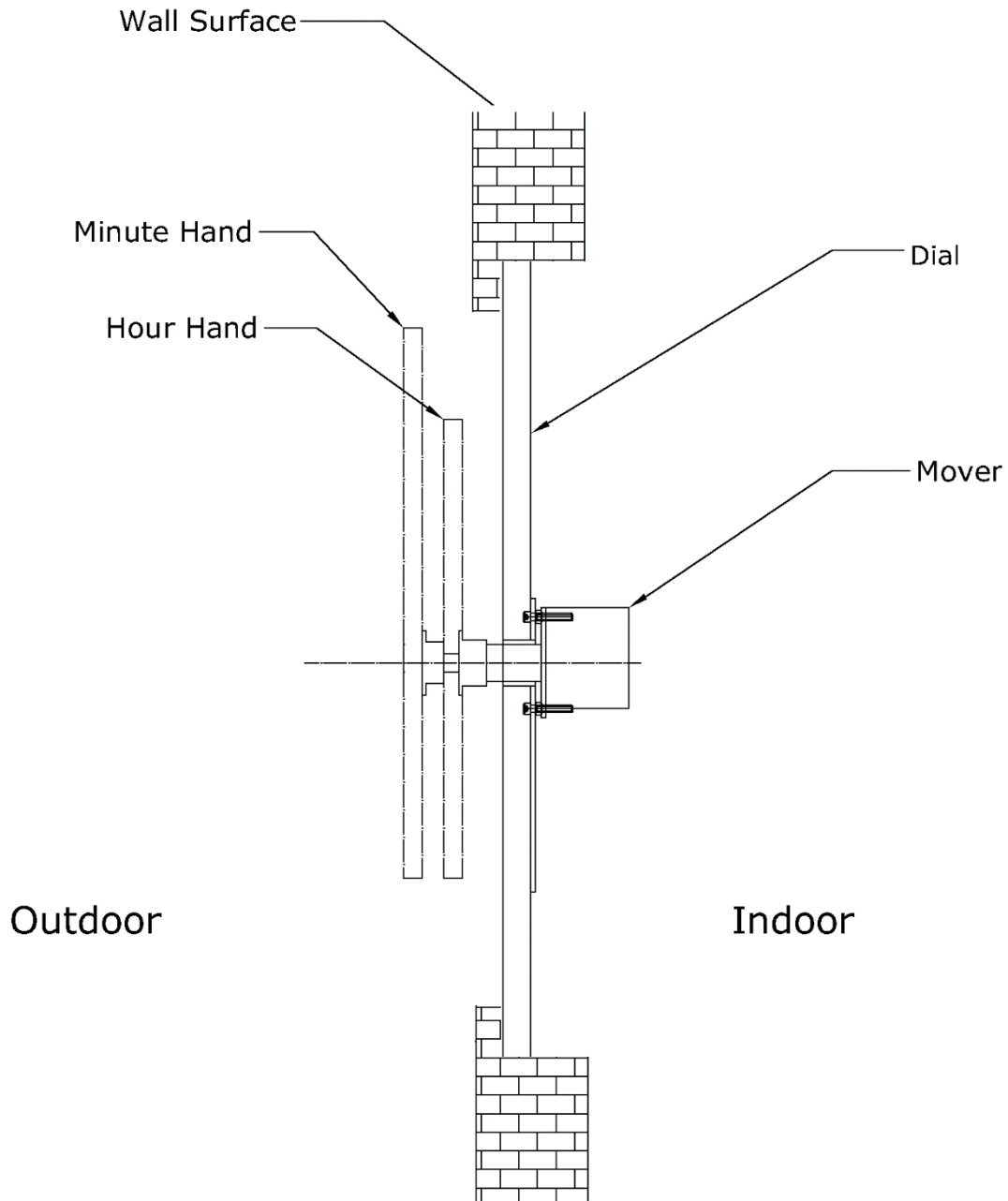
GFA25NFB adalah pilihan yang tepat dalam penawaran ini untuk support spesifikasi yang diinginkan, antara lain:

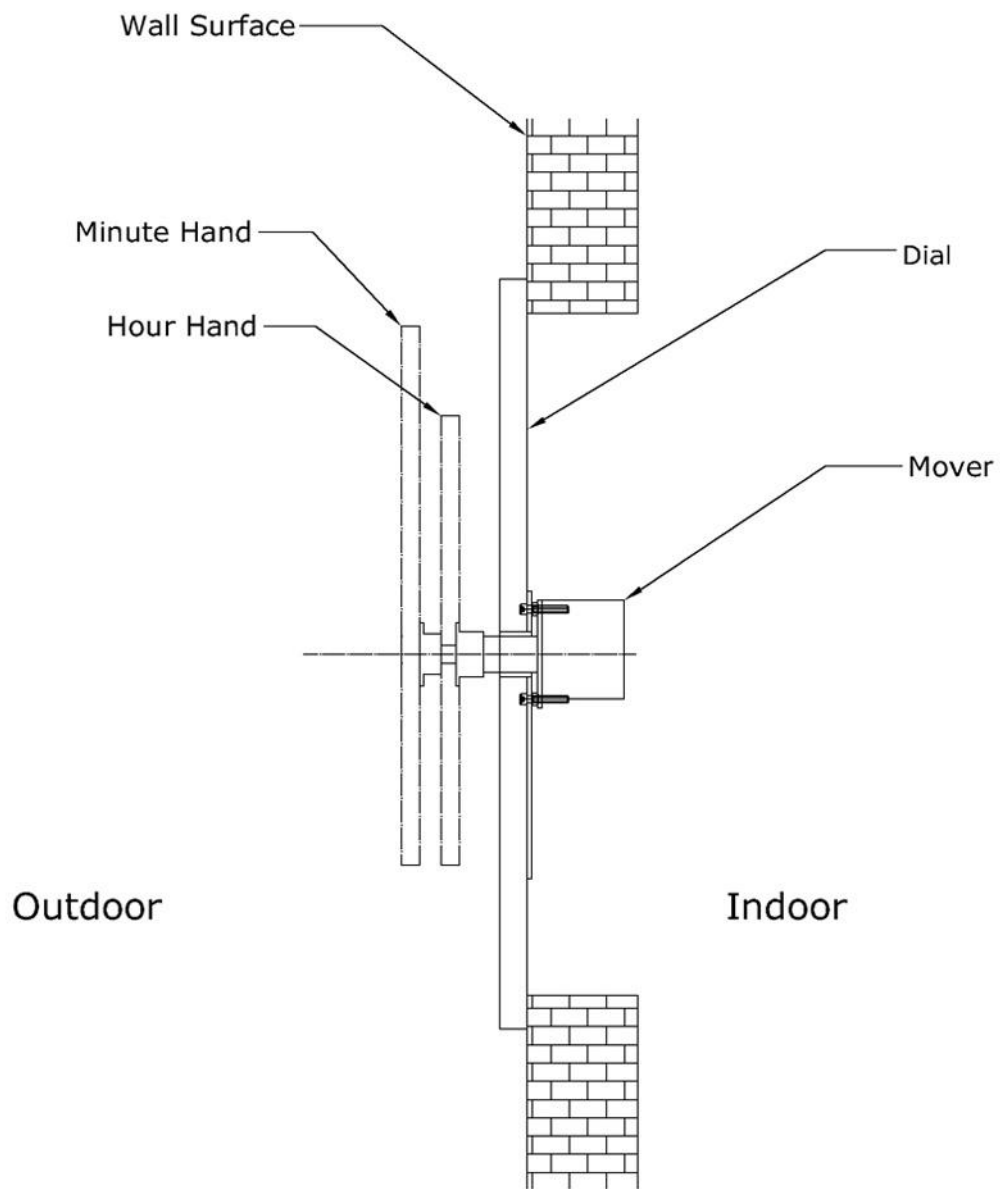
1. Diameter 3.0 meter, and working with Master clock and four slave clock
2. Support illumination at night of Hands

Wiring Installation

GFA Series for Two Hands

Berikut adalah model pemasangan di dalam bangunan menara, sebagai berikut:





Tower Clock - Installation

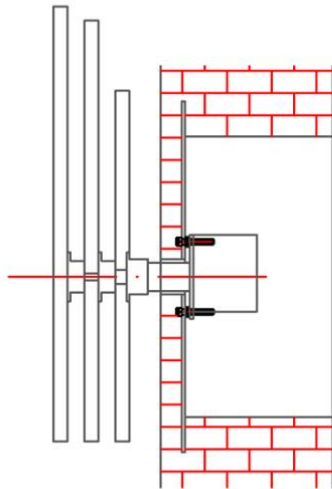


Fig. 1

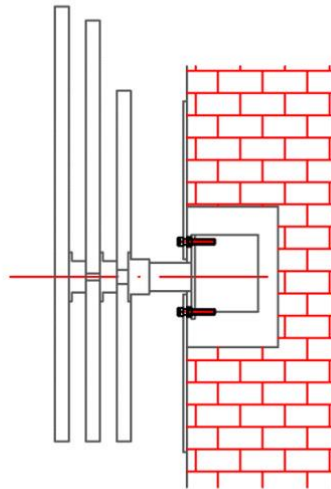


Fig. 2

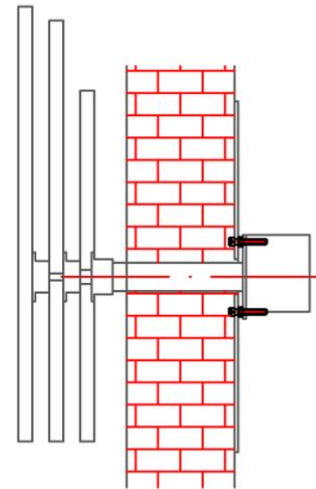


Fig. 3

Remark: in Fig. 3, movement with extended shaft is required

Building Clock - Installation

Master Control

Master Control

Digunakan untuk melakukan sinkronisasi waktu dari ke empat face mesin jam sehingga waktu tercatat dari masing-masing mesin jam akan sama, dan mempunyai fungsi RTC = Real Time Clock yang berguna untuk menyimpan informasi waktu jika sumber Listrik dalam keadaan mati (informasi waktu tersebut akan tersimpan selama 6 bulan, setelahnya bisa dilakukan reset ulang untuk kembali dapat menyimpan informasi waktu)

Master Clock ini juga mempunyai fungsi illumination sebagai pengontrol lampu akan menyala pada malam hari, auto correction time jika listrik PLN mati dan akan melakukan recovery waktu secara otomatis kepada masing-masing secondary clocks

Berikut adalah Master Control dalam penawaran ini adalah, sbb:

Master Control / Master Clock



Optional Functions:

1. Master Clock System
2. illumination light at night
3. Auto correction time
4. Control up to 120 meter cable

with Hours Striking Module + Speaker and Amplifier are support Melody/Chime

Master Control jenis ini adalah pilihan yang tepat dalam penawaran ini untuk support spesifikasi yang diinginkan, antara lain:

1. Tower Clock 4 Face dan masing-masing mesin jam akan saling tersinkronisasi waktunya
2. included RTC = Real Time Control (menyimpan informasi waktu sampai dengan 6 bulan selama Listrik Mati, dan bisa di reset kembali)
3. Auto correction Time, jika Listrik Mati akan melakukan perbaikan waktu secara otomatis pada saat Listrik kembali Hidup
4. Support illumination control, dan bisa diset untuk interval waktu yang diinginkan
5. Tambahan, chime generator yang akan berbunyi setiap menit 00:00 (ini dapat deprogram jam berapa saja akan berbunyi)

Dials & Hands

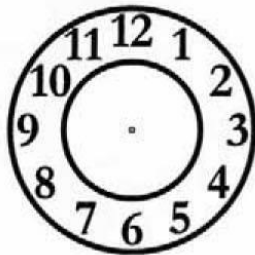
Berikut ini hanya beberapa contoh Dials dan Hands yang dapat dipilih, namun untuk Penawaran ini dipilih model Dials dan Hands sesuai dengan gambar pada Bab: **Picture References**
Spesifikasi:

1. Dial diameter sesuai dengan penawaran
2. Dial dapat menyala pada malam hari disorot Lampu dari belakang.
3. Dial Warna dasar Putih, tulisan Angka warna Hitam
4. Dial terbuat dari Metal dan Acrylic
5. Hands (Jarum Menit dan Jarum Jam) dapat menyala di malam hari dengan LED berwarna

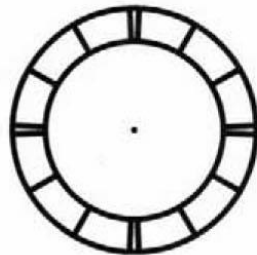
- 6. Hands Warna Hitam
- 7. Hands terbuat dari Metal atau Acrylic

GFClock Yasa Persada

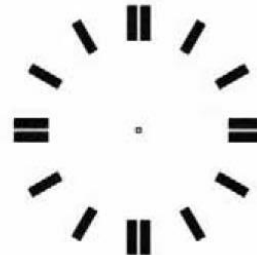
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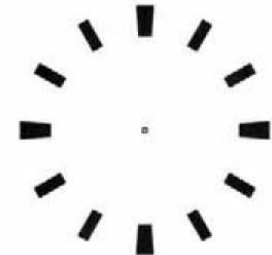
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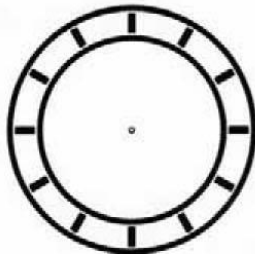
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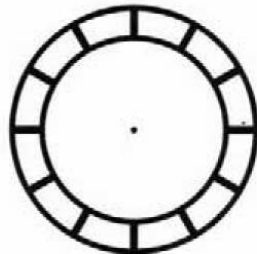
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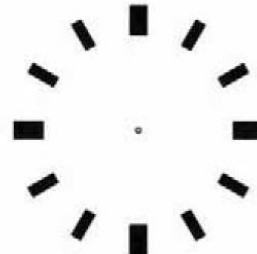
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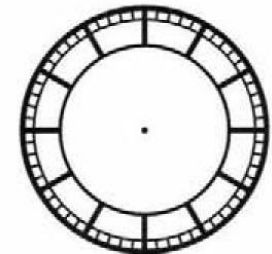
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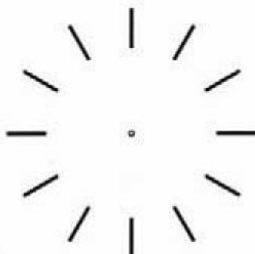
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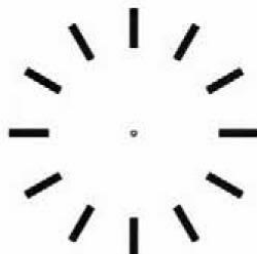
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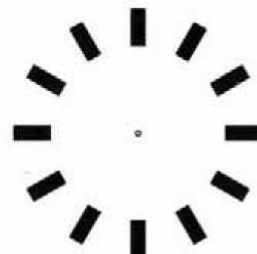
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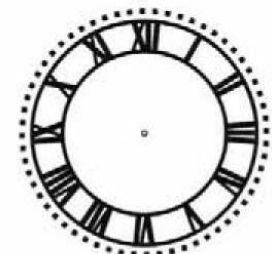
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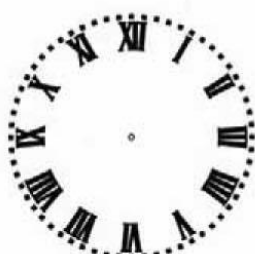
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EB-309H



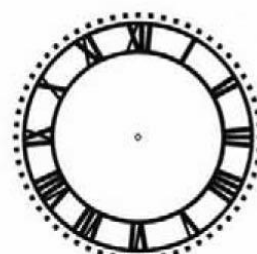
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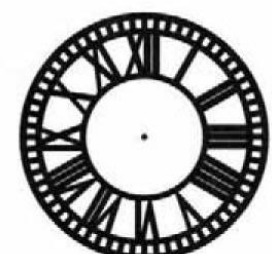
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EB-312V



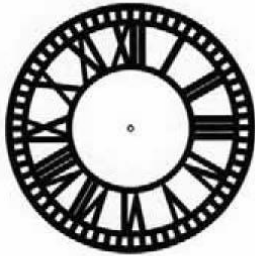
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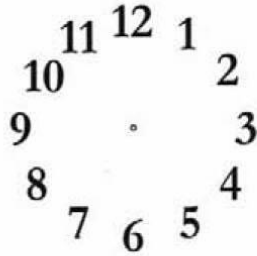
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GFClock Yasa Persada

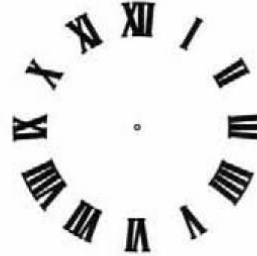
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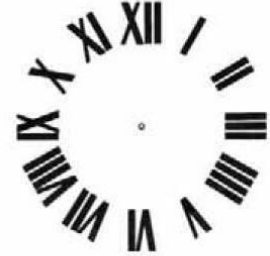
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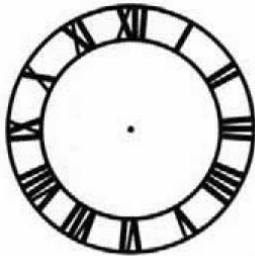
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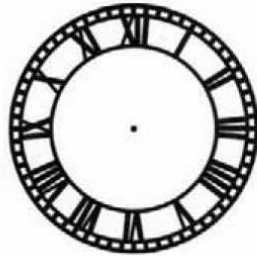
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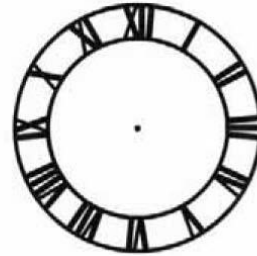
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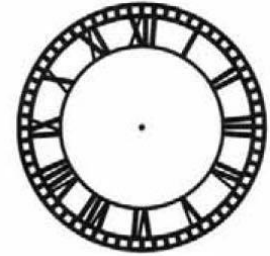
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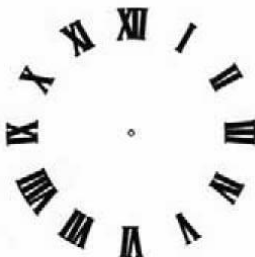
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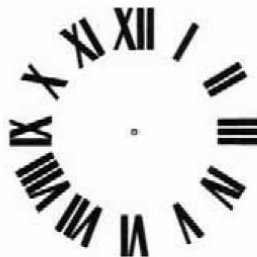
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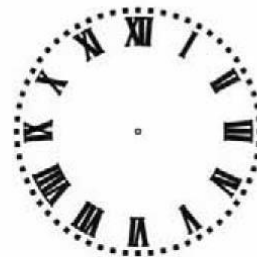
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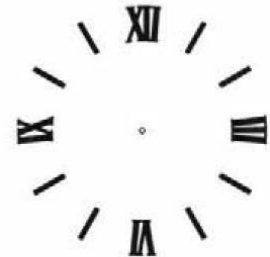
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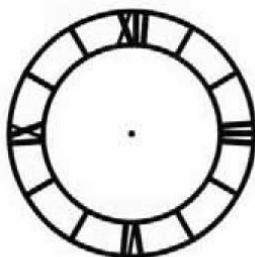
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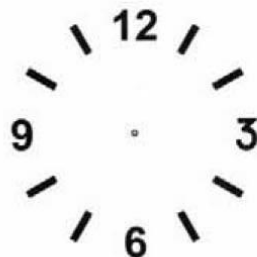
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EB-323



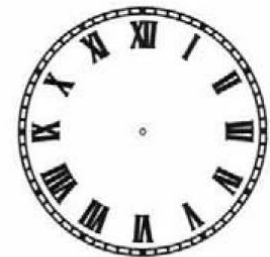
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EB-325



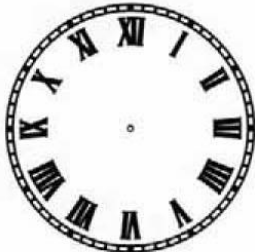
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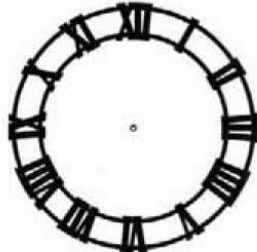
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GFClock Yasa Persada

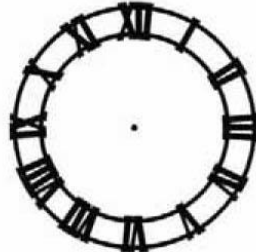
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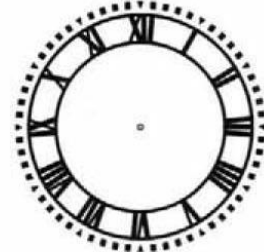
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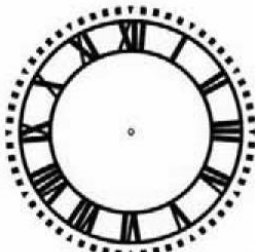
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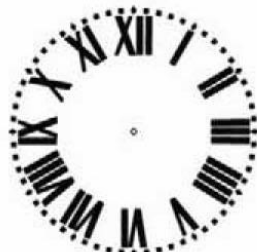
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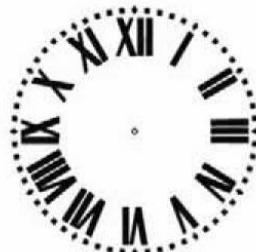
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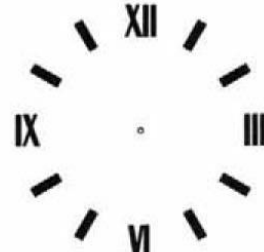
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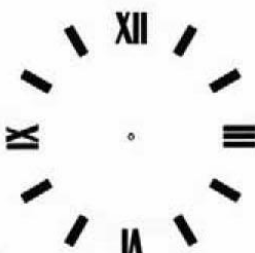
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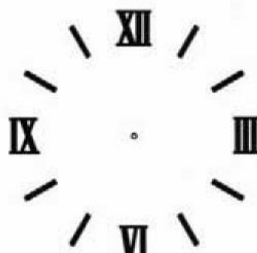
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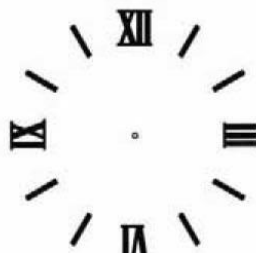
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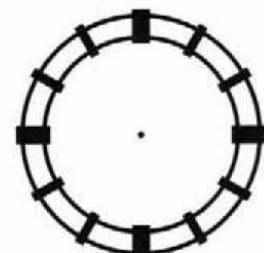
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EB-337



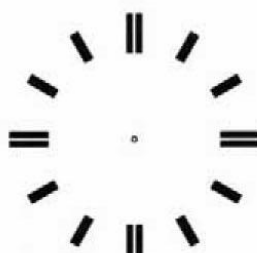
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EB-346



EB-347



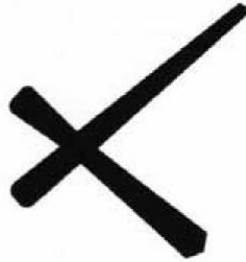
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GFClock Yasa Persada

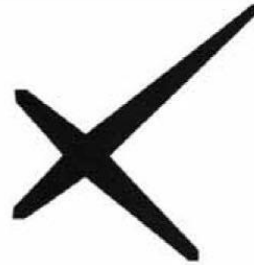
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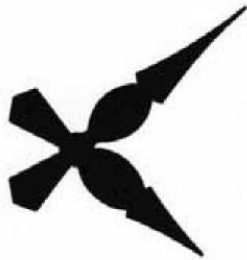
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EB-402



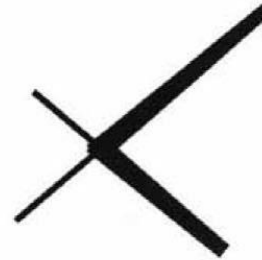
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EB-404



EB-405



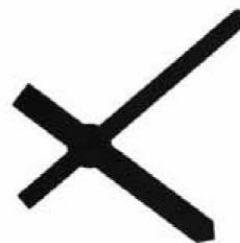
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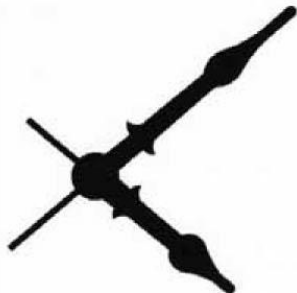
EB-406



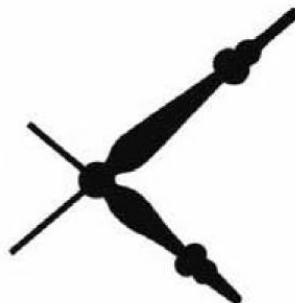
EB-407



EB-408



EB-409



EB-410



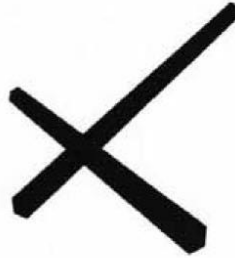
EB-412

GFClock Yasa Persada

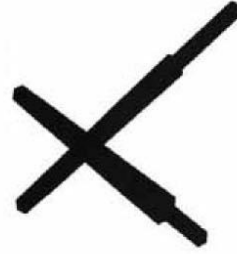
2/3



EB-412-H



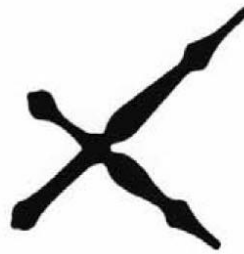
EB-413



EB-414



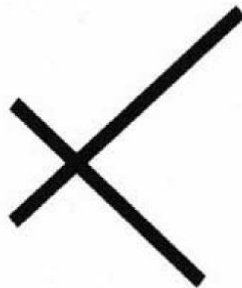
EB-415



EB-416



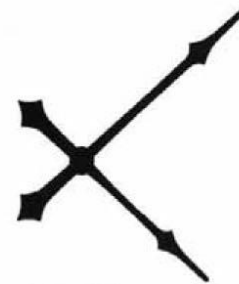
EB-417



EB-418



EB-418-H



EB-419



EB-420

Picture References

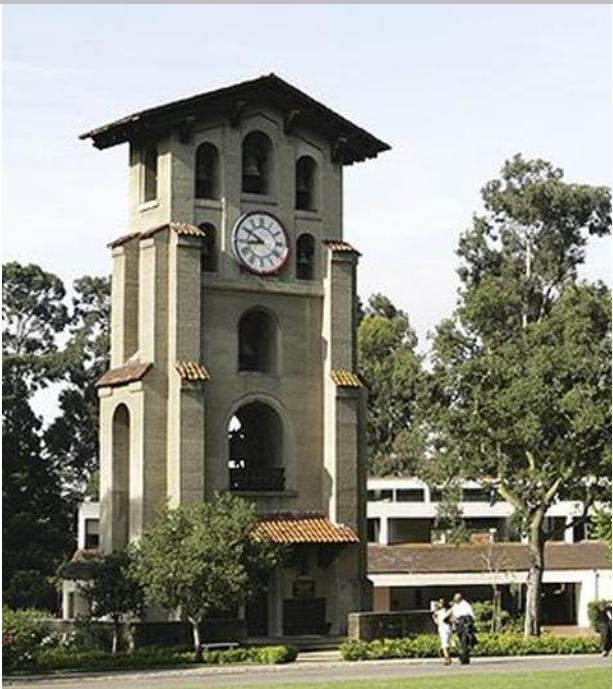
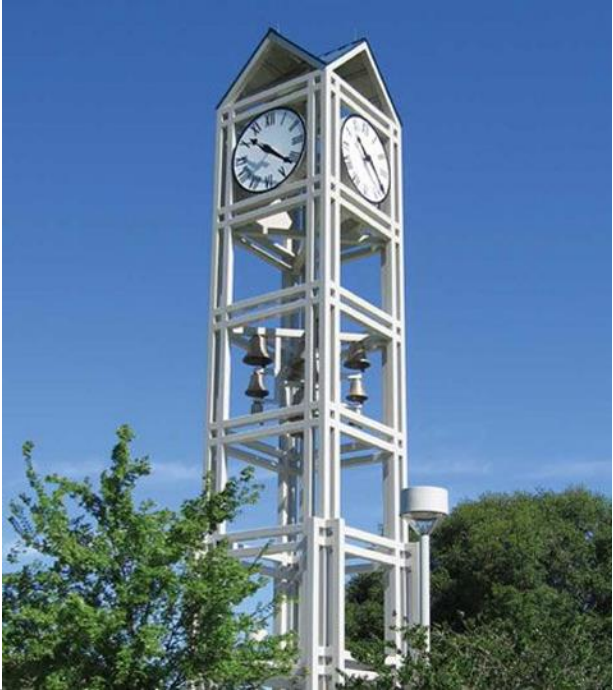
Berikut adalah gambaran jenis Dials dan Hands yang dipilih untuk diimplementasikan dalam Tower Clock pada penawaran ini.



Dial with illumination at Night



Berikut adalah gambaran jenis Jam Tugu lainnya, bisa dipilih sebagai referensi model dan bentuk yang diinginkan:





Anda bisa melihat beberapa koleksi bentuk jam Tower Clocks, Outdoor Clocks, dan Street Clocks di website kami di <http://gfclock.yasapersada.com>

atau bisa kontak kami secara langsung ke:

PT. Yasa Persada Dewantara

Workshop: Jl. Pejaten Raya No.12A Pejaten Barat – Pasar Minggu

Jakarta Selatan 12510

Telp. - W/A: 0821-1461 17 32

Lampiran-1

RAB- Rincian Anggaran dan Biaya

Berikut adalah contoh rincian anggaran dan biaya untuk pengadaan material Jam Tower dengan ukuran sampai dengan diameter 240 CM terdiri dari 4 sisi/arah dengan spesifikasi teknis dan jumlah barang, sebagai berikut:

Spesifikasi Teknis

A. BIG WALL Clock Diameter 240 CM – Quarter Face

No.	Descriptions	Model	Qty	Rp/unit	Total Rp
1	BIG WALL Clock Diameter 150 – 240 CM (Belum termasuk Pemasangan)		4	calls	calls
	MOVEMENT	GFA25NHB			
	Open-air movement for tower clock two hands = minute and hour. Hands set by buttons movement back cover. Enhanced metal construction for weather resistant operation 24-hours-a-day. Reinforced for dial diameter up to 2.5m with hour and minute hand bushing. Synchronized for each clock with serial communication by wires up to 120 meters				
	DIALS	150 - 240 CM			
	Metal material and Acrylic or Polycarbonate, or ACP material, with Numeral EB-SERIES				
	HANDs	For 150 - 240 CM Dial			
	TWO hands for hour and minute with Metal material UP TO 250cm dial size EB-SERIES				
2	Power System A sets power system with Battery backup for main power failure		1	calls	calls

Tower Clock System

3	Illumination Import LED illumination Module for DIAL only Included LED driver, and Timer	4	calls	calls
4	Master Clock / Master Control Support for 1-99 secondary clocks, and Purposed for automatic recovery time due to Power failure Adjustment and control for each clock at room of operational control up to 120meter.	1	calls	calls
OPTIONAL				
5	CHIME Generator Hourly melody and chime sticking generator, (chime and melody can be request by customer) Power Amplifier and Speaker for Chime melody and hourly sticking	1	calls	calls

Note:

Berat Jam per side size 150 - 250 CM = 80 Kg, Lead Delivery Time: 30 Days

1. Warranty / Garansi Mesin Jam 12 bulan
2. Harga Franko JAKARTA, jika dikirim ke luar kota ada biaya Packing dan Deliverable oleh Jasa Paket titipan barang
3. Harga belum termasuk pemasangan, dan jika pemasangan di luar Jakarta maka pembeli harus menyediakan akomodasi (makan, penginapan, transportasi dari Jakarta ke kota tujuan)

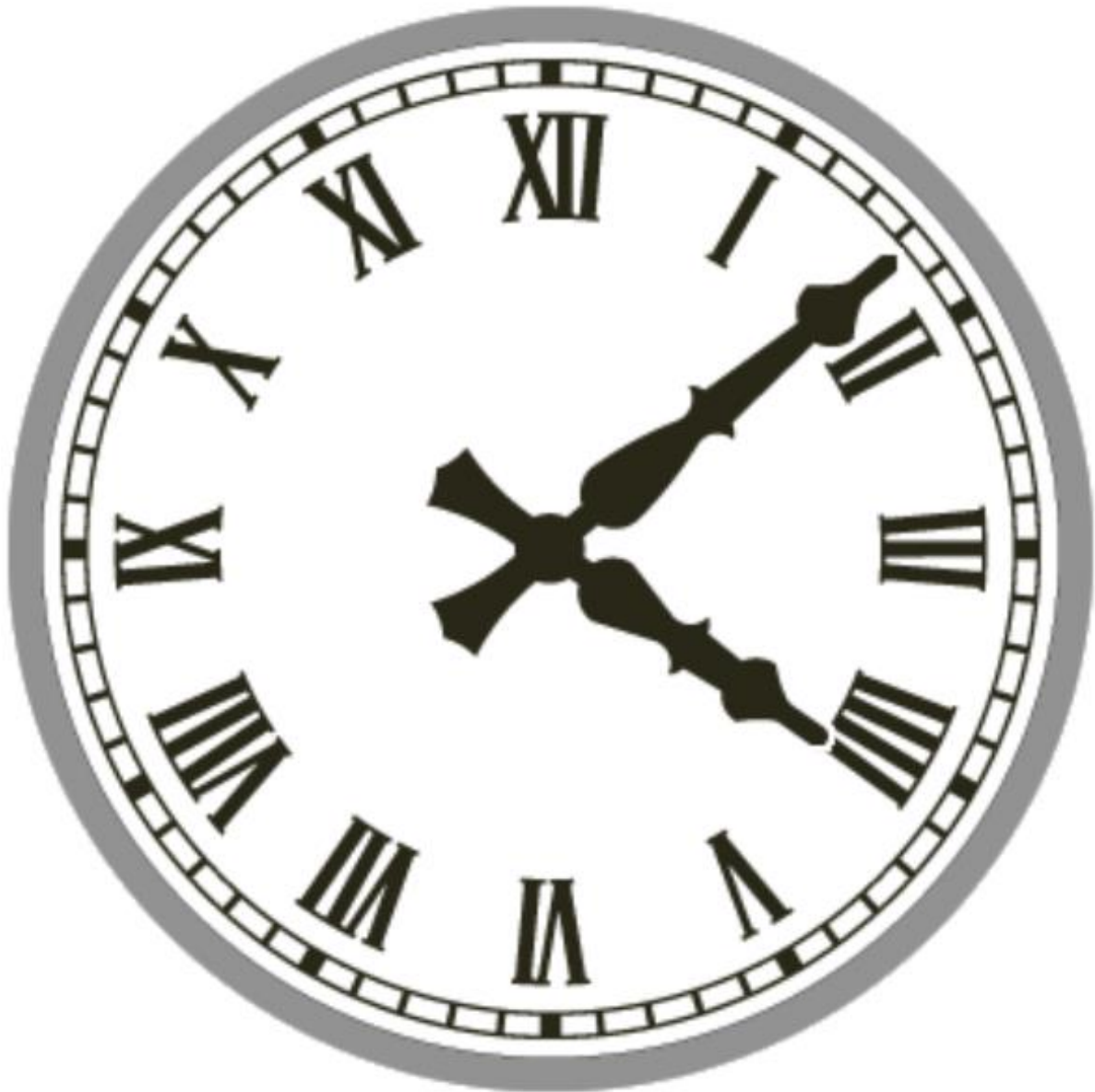
B. Packing – Delivery and Installation

No.	Descriptions	Model	Qty	Rp/unit	Total Rp.
1	Wooden Packing Biaya Packing dengan teliti dan kuat menggunakan kayu, dalam rangka pengiriman barang ke tujuan pembeli		Package	calls	calls
	Deliverable to PROJECT LOCATION Pengiriman Material JAKARTA ke Lokasi Dimensions: ___ x ___ x ___ cm pembagi 6000 equal = ___ Kg		lots	calls	calls
	Local Transport Biaya yang hanya timbul di Jakarta dalam rangka deliverable ke tempat ekspedisi, atau lainnya		Package	calls	calls
	Installation materials Cables, Screw, Adhesive, Iron, Panel Box, Welding, Silent, Rivet, battery, etc		Package	calls	calls
	Implementation Biaya installation & Setup Tower clock Master/Slave System bergaransi 1 Tahun (biaya ini tidak termasuk makan, penginapan, dan transportasi dari Jakarta di Kota Tujuan Pemasangan)		Package	calls	calls

Design Confirmed

Berikut adalah gambar konfirmasi untuk desain JAM Outdoor:

1. Dial Type: EB-321 dengan romawi angka 4 adalah IIII dengan lampu keliling lingkaran menyala siluet dari dalam tembus ke depan
2. Hands type EB-412H atau EB series lainnya



Design = EB 321/412H

Catatan:

Lingkaran tepi besar dan tebal adalah profil dinding acian semen pada bangunan yang tersedia