



***Satellite Master Antenna Television***  
***(SMATV)***

# ***CASE STUDIES***

- 1. Bungalow (Multiband)**
- 2. Flats and Apartments (Multiband)**
- 3. Condominiums and Apartments (K-Series)**
- 4. Budget Hotels (K-Series)**
- 5. Deluxe Hotels (K-Series)**
- 6. MiTV**

# Klang Valley TV Channels

## Terrestrial TV

Freq \ Ch.	RTM1	RTM2	TV3	TV7	TV8	TV9
KL Tower	5	8				
Sg. Besi			12	7	58	33
Genting	2	10	29	37	27	42

## MiTV

RF Ch.	49	52	54	56	60
Freq. (MHz)	695	719	735	751	783

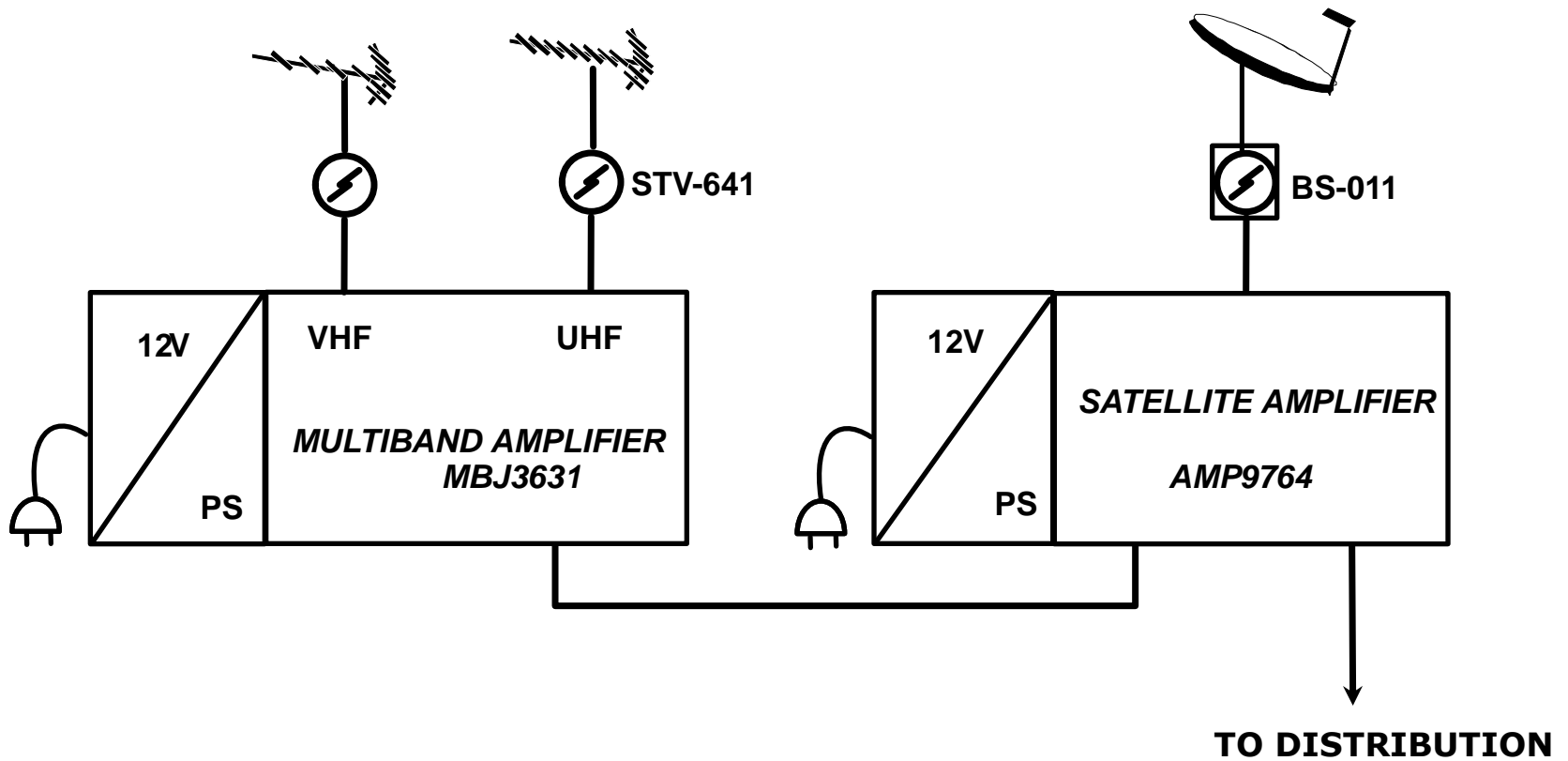
## ASTRO

Freq. (MHz)	<u>1232</u>	1272	1312	1352	1392	1432
	<u>1732</u>	1772	<u>1812</u>	1852	<u>1892</u>	1932

# Bungalow in Klang Valley

## (Multiband)

ASTRO	RTM1	RTM2	TV3	TV7	TV8	TV9
	5	8	29	37	27	42



# ***Bungalow in Klang Valley***

## ***(Multiband)***

### **SATELLITE DISH, ANTENNA & ACCESSORIES:**

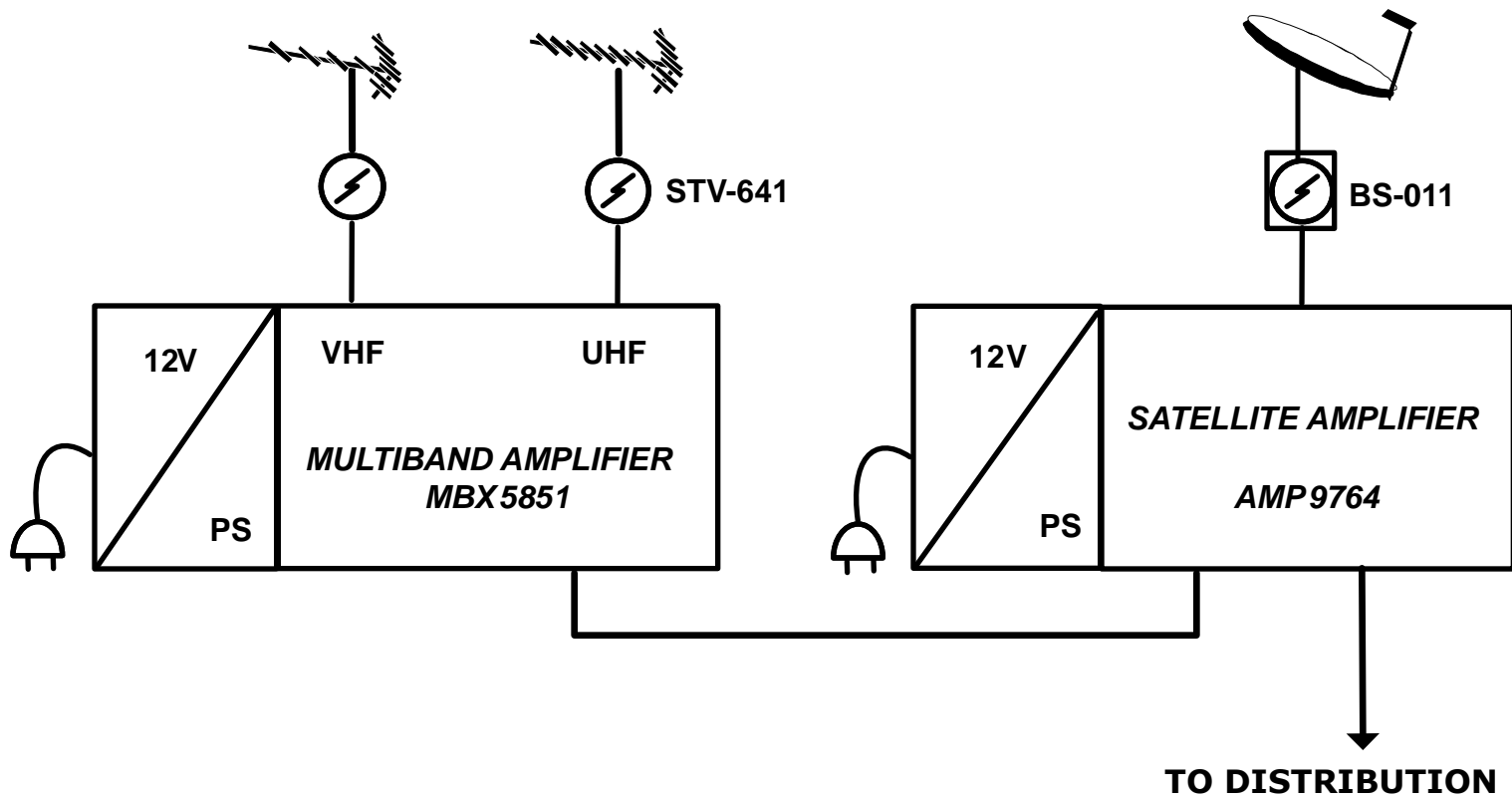
<b>BLU4F</b>	<b>VHF III Antenna</b>	<b>1 unit</b>
<b>LP45</b>	<b>UHF Antenna</b>	<b>1 unit</b>
<b>STV-641</b>	<b>RF Lightning Arrestor</b>	<b>2 units</b>
<b>SK25</b>	<b>Antenna Mounting Kit</b>	<b>2 units</b>
<b>DSD60</b>	<b>60cm Satellite Dish</b>	<b>1 unit</b>
<b>BS-011</b>	<b>UBB Lightning Arrestor</b>	<b>1 unit</b>

### **HEADEND**

<b>MBJ3631</b>	<b>RF Multiband Amp 28dB</b>	<b>1 unit</b>
<b>AMP9764</b>	<b>SAT IF Amp 40dB</b>	<b>1 unit</b>
<b>HMC</b>	<b>Headend Metal Bracket</b>	<b>1 unit</b>

# Condominiums & Apartments In Klang Valley (Multiband)

ASTRO	RTM1	RTM2	TV3	TV7	TV8	TV9
	5	8	29	37	27	42



# **Condominiums & Apartments In Klang Valley**

## **(Multiband)**

### **SATELLITE DISH, ANTENNA & ACCESSORIES:**

<b>BLV6F</b>	<b>VHF III Antenna</b>	<b>1 unit</b>
<b>TAU15/45</b>	<b>UHF Antenna</b>	<b>1 unit</b>
<b>STV-641</b>	<b>RF Lightning Arrestor</b>	<b>2 units</b>
<b>SK25</b>	<b>Antenna Mounting Kit</b>	<b>2 units</b>
<b>DSD90</b>	<b>90cm Satellite Dish</b>	<b>1 unit</b>
<b>BS-011</b>	<b>UBB Lightning Arrestor</b>	<b>1 unit</b>

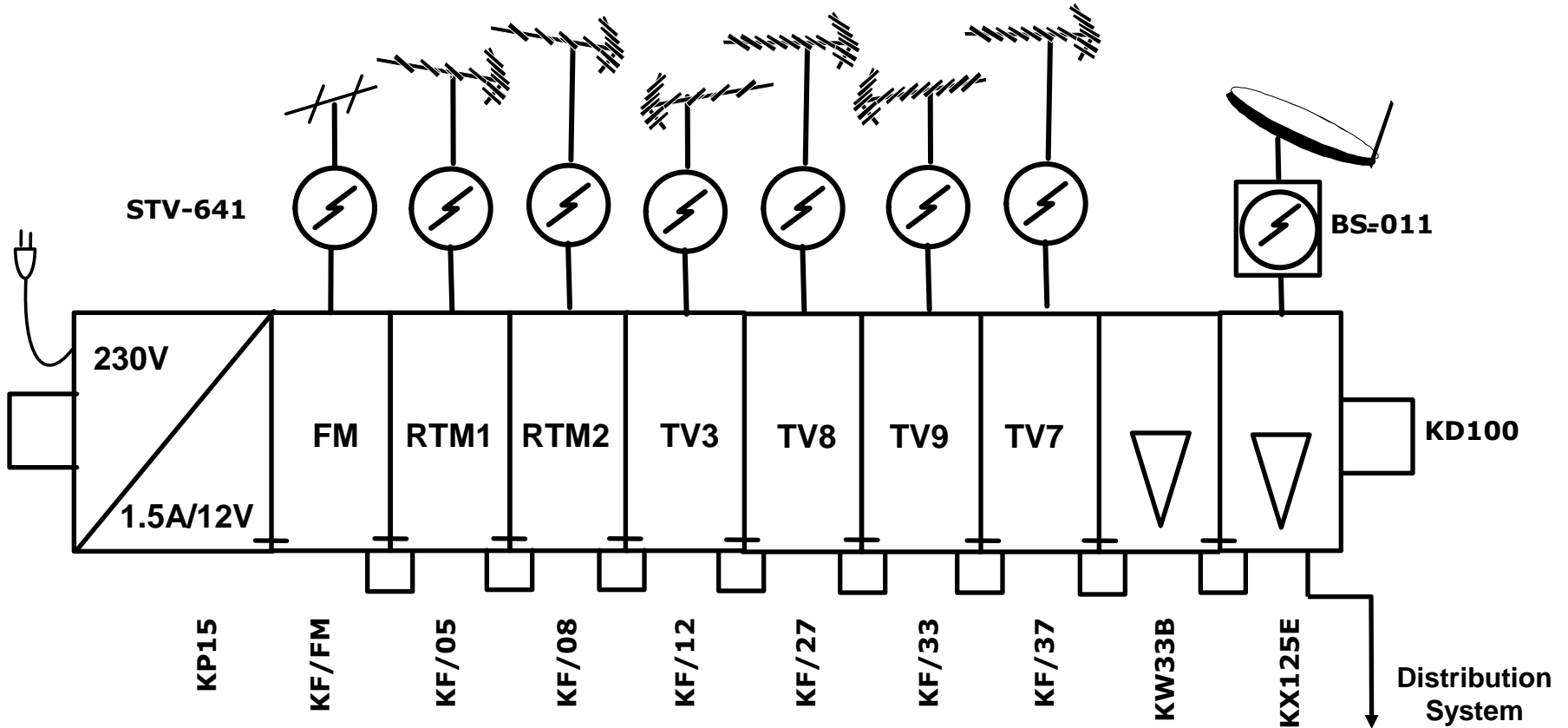
### **HEADEND**

<b>MBX5851</b>	<b>RF Multiband Amplifier 44dB</b>	<b>1 unit</b>
<b>AMP9764</b>	<b>SAT IF Amplifier 40dB</b>	<b>1 unit</b>
<b>HMC</b>	<b>Headend Metal Bracket</b>	<b>1 unit</b>

# Condominiums & Apartments in Klang Valley (K-Series)

## Option-1

ASTRO	RTM1	RTM2	TV3	TV7	TV8	TV9
	5	8	12	37	27	33





# **Condominiums & Apartments in Klang Valley (K-Series)**

## **Option-1**

### **SATELLITE DISH, ANTENNA & ACCESSORIES:**

<b>2FMF</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>BLV6F</b>	<b>VHF III Antenna</b>	<b>3 units</b>
<b>TAU15/45</b>	<b>UHF Antenna</b>	<b>3 unit</b>
<b>STV-641</b>	<b>RF Lightning Arrestor</b>	<b>7 units</b>
<b>SK25</b>	<b>Mounting Bracket</b>	<b>7 units</b>
<b>DSD90</b>	<b>90cm Satellite Dish</b>	<b>1 unit</b>
<b>BS-011</b>	<b>UBB Lightning Arrestor</b>	<b>1 unit</b>

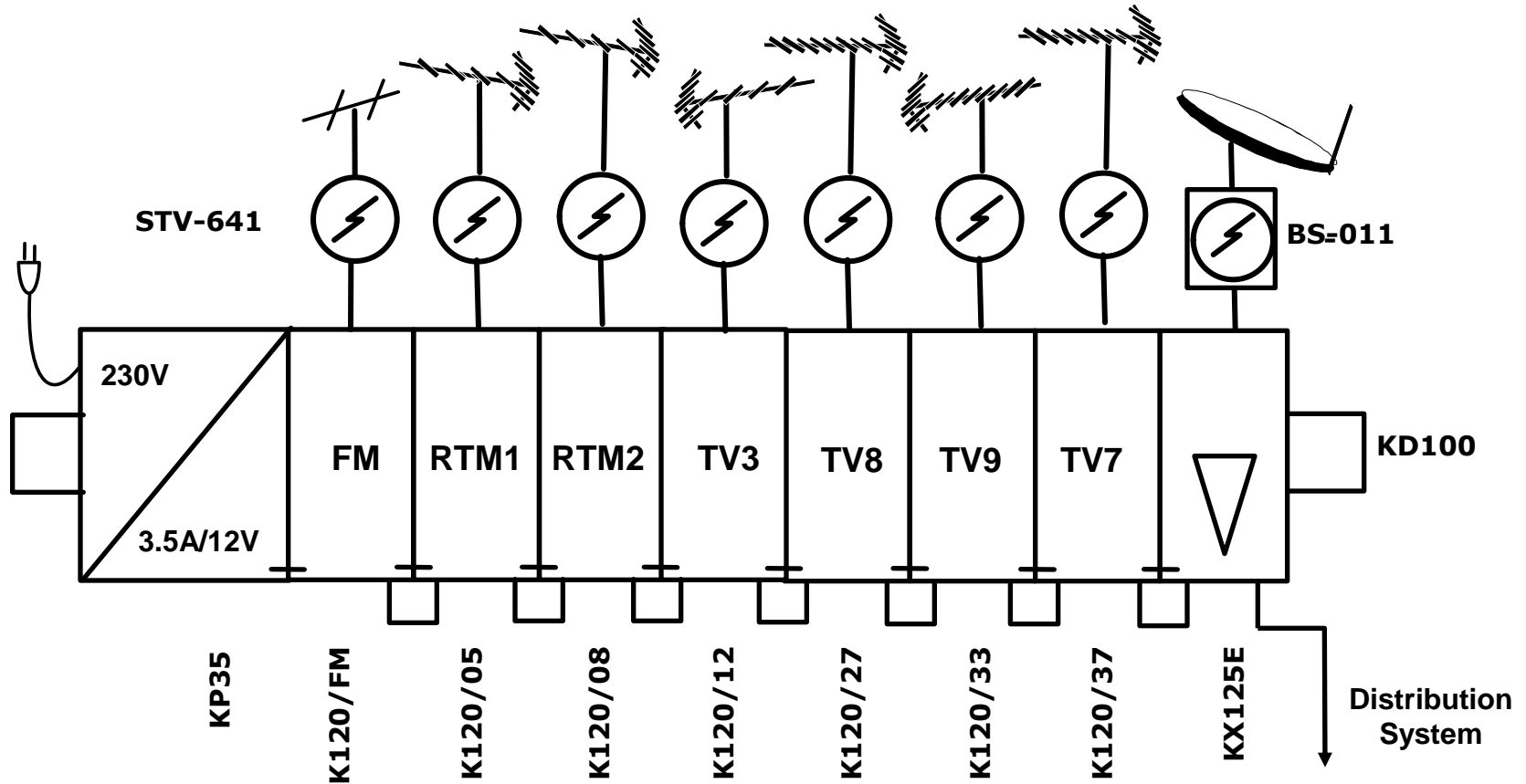
### **HEADEND :**

<b>KF/05</b>	<b>TV1 Channelized Amp</b>	<b>1 unit</b>
<b>KF/08</b>	<b>TV2 Channelized Amp</b>	<b>1 unit</b>
<b>KF/12</b>	<b>TV3 Channelized Amp</b>	<b>1 unit</b>
<b>KF/27</b>	<b>TV8 Channelized Amp</b>	<b>1 unit</b>
<b>KF/33</b>	<b>TV9 Channelized Amp</b>	<b>1 unit</b>
<b>KF/37</b>	<b>TV7 Channelized Amp</b>	<b>1 unit</b>
<b>KF/FM</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>KW/33B</b>	<b>Final Amplifier 30dB</b>	<b>1 unit</b>
<b>KX125E</b>	<b>SAT Amplifier</b>	<b>1 unit</b>
<b>KP15</b>	<b>Power Supply (1.5 Amp)</b>	<b>1 unit</b>
<b>KD100</b>	<b>Wall Mount Kit</b>	<b>1 unit</b>
<b>HMC</b>	<b>Headend Metal Cabinet</b>	<b>1 unit</b>

# Condominiums & Apartments in Klang Valley (K-Series)

## Option-2

ASTRO	RTM1	RTM2	TV3	TV7	TV8	TV9
	5	8	12	37	27	33



# Condominiums & Apartments in Klang Valley (K-Series)

## Option-2

### SATELLITE DISH, ANTENNA & ACCESSORIES:

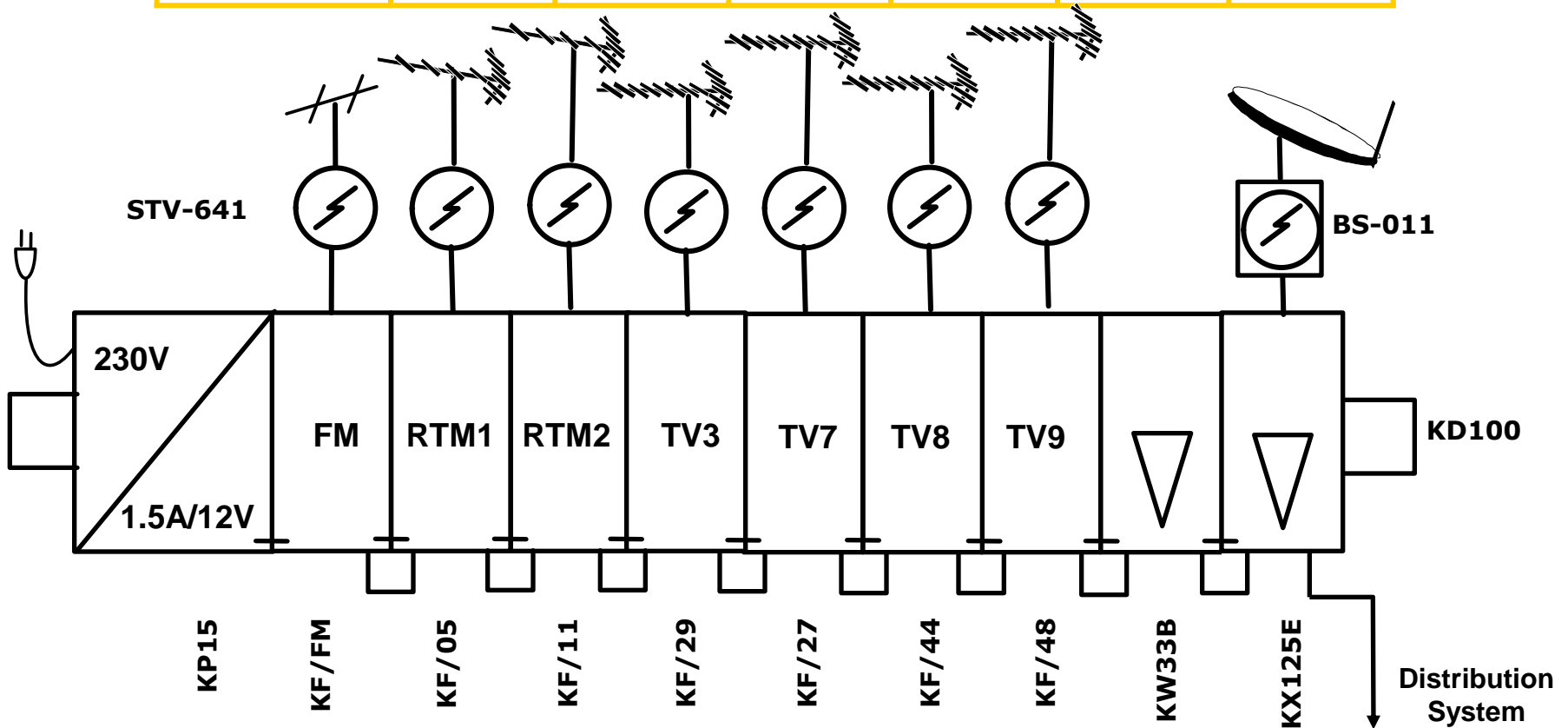
<b>2FMF</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>BLV6F</b>	<b>VHF III Antenna</b>	<b>3 units</b>
<b>TAU15/45</b>	<b>UHF Antenna</b>	<b>3 unit</b>
<b>STV-641</b>	<b>RF Lightning Arrestor</b>	<b>7 units</b>
<b>SK25</b>	<b>Mounting Bracket</b>	<b>7 units</b>
<b>DSD90</b>	<b>90cm Satellite Dish</b>	<b>1 unit</b>
<b>BS-011</b>	<b>UBB Lightning Arrestor</b>	<b>1 unit</b>

### HEADEND :

<b>K120/05</b>	<b>TV1 Channelized Amp</b>	<b>1 unit</b>
<b>K120/08</b>	<b>TV2 Channelized Amp</b>	<b>1 unit</b>
<b>K120/12</b>	<b>TV3 Channelized Amp</b>	<b>1 unit</b>
<b>K120/27</b>	<b>TV8 Channelized Amp</b>	<b>1 unit</b>
<b>K120/33</b>	<b>TV9 Channelized Amp</b>	<b>1 unit</b>
<b>K120/37</b>	<b>TV7 Channelized Amp</b>	<b>1 unit</b>
<b>K120/FM</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>KX125E</b>	<b>SAT Amplifier</b>	<b>1 unit</b>
<b>KP35</b>	<b>Power Supply (3.5Amp)</b>	<b>1 unit</b>
<b>KD100</b>	<b>Wall Mount Kit</b>	<b>1 unit</b>
<b>HMC</b>	<b>Headend Metal Cabinet</b>	<b>1 unit</b>

# Condominiums & Apartments in Penang (Gunung Jerai)

ASTRO	RTM1	RTM2	TV3	TV7	TV8	TV9
	5	11	29	37	44	48



# Condominiums & Apartments in Penang (Gunung Jerai)

## SATELLITE DISH, ANTENNA & ACCESSORIES:

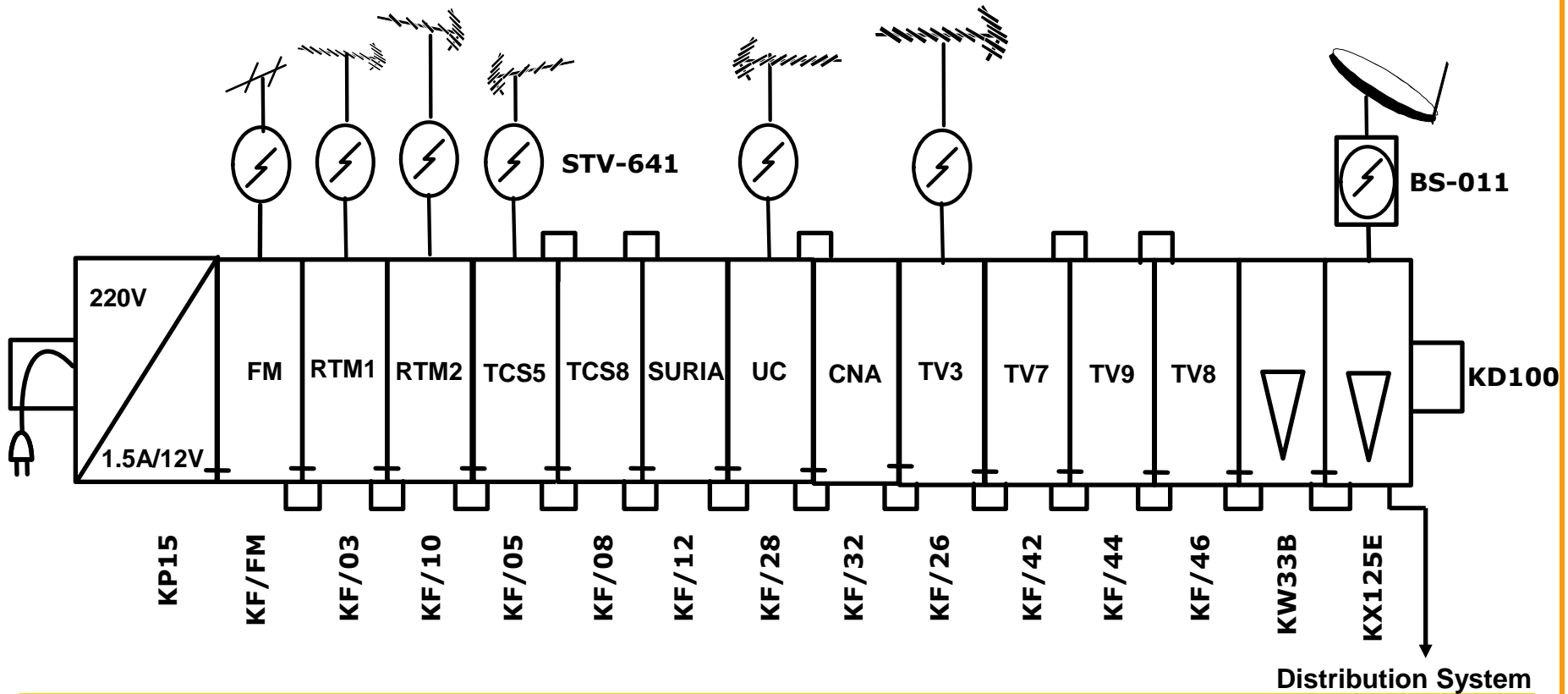
<b>2FMF</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>BLV6F</b>	<b>VHF III Antenna</b>	<b>2 units</b>
<b>TAU15/45</b>	<b>UHF Antenna</b>	<b>4 unit</b>
<b>STV-641</b>	<b>RF Lightning Arrestor</b>	<b>7 units</b>
<b>SK25</b>	<b>Mounting Bracket</b>	<b>7 units</b>
<b>DSD90</b>	<b>90cm Satellite Dish</b>	<b>1 unit</b>
<b>BS-011</b>	<b>UBB Lightning Arrestor</b>	<b>1 unit</b>

## HEADEND :

<b>KF/05</b>	<b>TV1 Channelized Amp</b>	<b>1 unit</b>
<b>KF/11</b>	<b>TV2 Channelized Amp</b>	<b>1 unit</b>
<b>KF/29</b>	<b>TV3 Channelized Amp</b>	<b>1 unit</b>
<b>KF/37</b>	<b>TV7 Channelized Amp</b>	<b>1 unit</b>
<b>KF/44</b>	<b>TV8 Channelized Amp</b>	<b>1 unit</b>
<b>KF/48</b>	<b>TV9 Channelized Amp</b>	<b>1 unit</b>
<b>KF/FM</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>KX125E</b>	<b>SAT Amplifier</b>	<b>1 unit</b>
<b>KP15</b>	<b>Power Supply (1.5Amp)</b>	<b>1 unit</b>
<b>KD100</b>	<b>Wall Mount Kit</b>	<b>1 unit</b>
<b>HMC</b>	<b>Headend Metal Cabinet</b>	<b>1 unit</b>

# Condominiums & Apartments in Johor Bahru (Gunung Pulai)

RTM1	RTM2	TV3	TV7	TV8	TV9	TCS5	TCS8	SURIA	UC	CNA
3	10	26	42	46	44	5	8	12	28	32



# **Condominiums & Apartments in Johor Bahru (Gunung Pulai)**

## **SATELLITE DISH, ANTENNA & ACCESSORIES:**

	<b>VHF I Antenna</b>	<b>1 unit</b>
<b>2FMF</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>BLV6F</b>	<b>VHF III Antenna</b>	<b>2 units</b>
<b>TAU15/45</b>	<b>UHF Antenna</b>	<b>2 units</b>
<b>STV-641</b>	<b>RF Lightning Arrestor</b>	<b>6 units</b>
<b>SK25</b>	<b>Mounting Bracket</b>	<b>6 units</b>
<b>DSD90</b>	<b>90cm Satellite Dish</b>	<b>1 unit</b>
<b>BS-011</b>	<b>UBB Lightning Arrestor</b>	<b>1 unit</b>

## **HEADEND :**

<b>KF/**</b>	<b>Channelized Amp</b>	<b>11 unit</b>
<b>KF/FM</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>KW/33B</b>	<b>Final Amplifier 33dB</b>	<b>1 unit</b>
<b>KX125E</b>	<b>SAT Amplifier</b>	<b>1 unit</b>
<b>KP15</b>	<b>Power Supply</b>	<b>1 unit</b>
<b>KD100</b>	<b>Wall Mount Kit</b>	<b>1 unit</b>
<b>HMC</b>	<b>Headend Metal Cabinet</b>	<b>1 unit</b>

# Budget Hotels in Klang Valley

## Proposed Channel

<b>Terrestrial Channel</b>	<b>RTM1</b>	<b>RTM2</b>	<b>TV3</b>	<b>TV7</b>	<b>TV8</b>	<b>TV9</b>
<b>In-House Music</b>	<b>RADIO</b>					
<b>In-House Movies</b>	<b>MOVIE</b>					
<b>In-House Guest Information</b>	<b>GUEST</b>					

## Proposed Output Channel

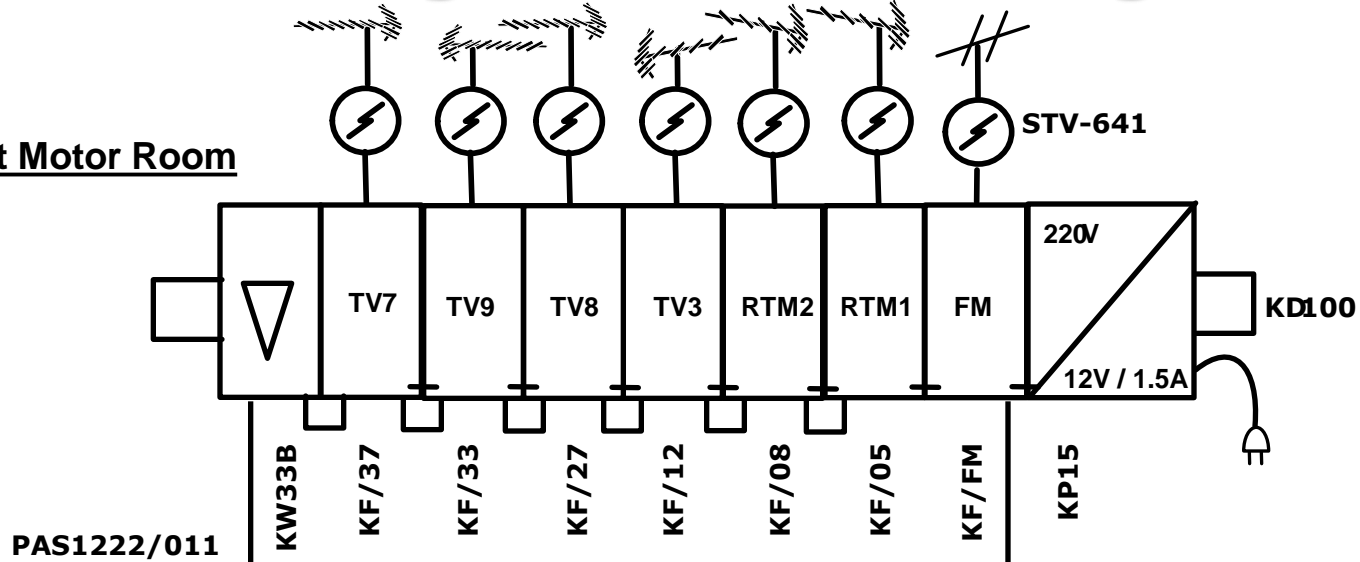
<b>RTM1</b>	<b>RTM2</b>	<b>TV3</b>	<b>TV7</b>	<b>TV8</b>	<b>TV9</b>
<b>5</b>	<b>8</b>	<b>12</b>	<b>37</b>	<b>27</b>	<b>33</b>

<b>MOVIE</b>	<b>RADIO</b>	<b>GUEST</b>			
<b>23</b>	<b>25</b>	<b>31</b>			



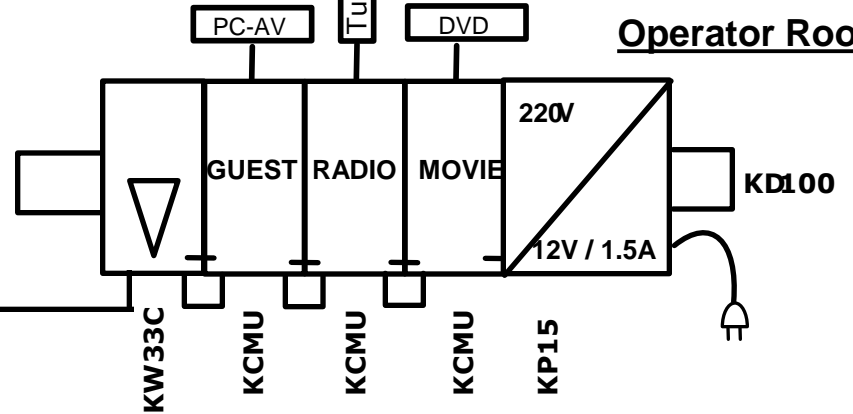
# Budget Hotels in Klang Valley

## Lift Motor Room



Distribution System

## Operator Room



# Budget Hotels in Klang Valley

## SATELLITE DISH, ANTENNA & ACCESSORIES:

2FMF	FM Band Amplifier	1 unit
BLV6F	VHF III Antenna	3 units
TAU15/45	UHF Antenna	3 units
STV-641	RF Lightning Arrestor	7 units
SK25	Mounting Bracket	7 units

## HEADEND (At Lift Motor Room) :

KF/**	Channelized Amp	6 unit
KF/FM	FM Band Amplifier	1 unit
KW33B	Final Amplifier 34dB	1 unit
KP15	Power Supply (1.5A)	1 unit
KD100	Wall Mount Kit	1 unit
AMP9762	RF Amplifier	1 unit
PAS1222011	2-ways Combiner	1 unit
HMC	Headend Metal Cabinet	1 unit

## HEADEND (At Operator Room) :

KCMU	Mod for In-House Channels	3 units
KW33C	Final Amplifier 32dB	1 unit
KP15	Power Supply (1.5 Amp)	1 unit
KD100	Wall Mount Kit	1 unit
	DVD Player	1 unit
	FM Tuner	1 unit
	PC c/w AV Converter	1 unit

# Deluxe Hotels in Klang Valley

## Proposed Channel

Terrestrial Channel	TV1	TV2	TV3	TV8	TV8	TV9
ASTRO	ASTRO-1	ASTRO-2	ASTRO-3	ASTRO-4	ASTRO-5	ASTRO-6
Vision Four	VF-1	VF-2				
In-House Music	RADIO-1	RADIO-2	CD			
In-House Guest Info.	GUEST					

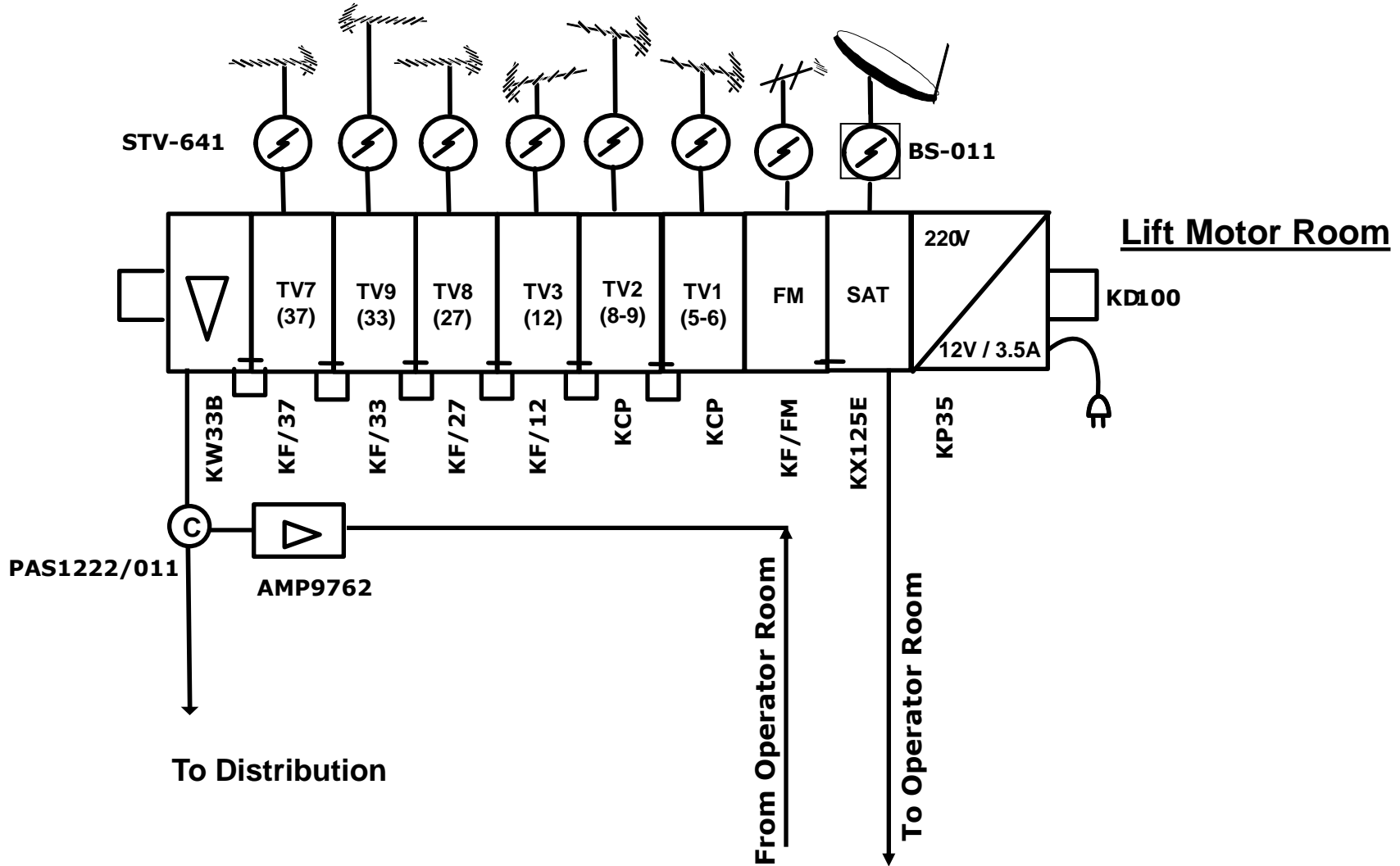
## Proposed Output Channel

TV1	TV2	TV3	TV7	TV8	TV9
6	9	12	37	27	33

ASTRO-1	ASTRO-2	ASTRO-3	ASTRO-4	ASTRO-5	ASTRO-6
S12	S13	S14	S15	S16	S17

VF-1	VF-2	GUEST	RADIO-1	RADIO-2	CD
23	25	31	35	39	41

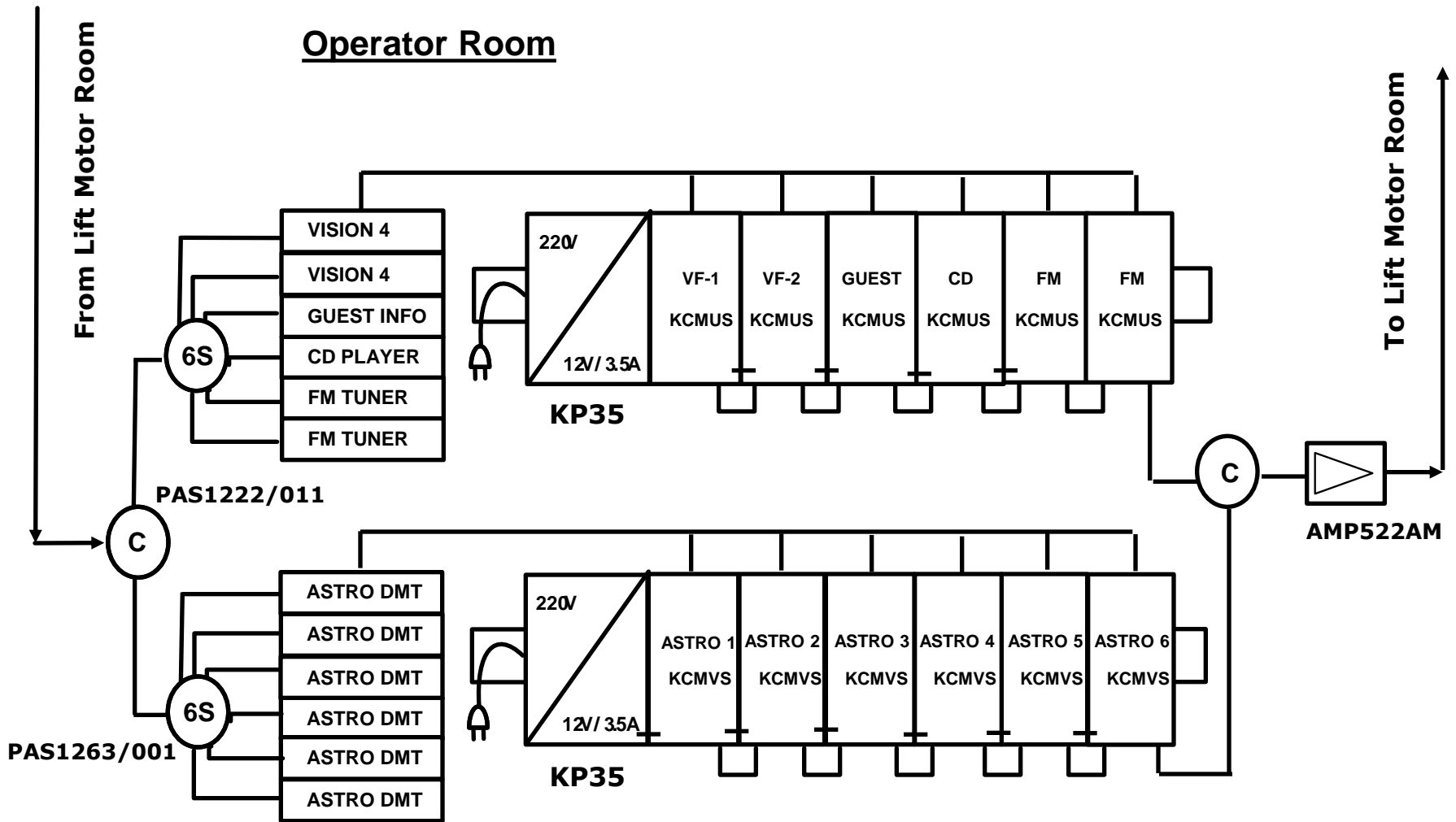
# Deluxe Hotels in Klang Valley



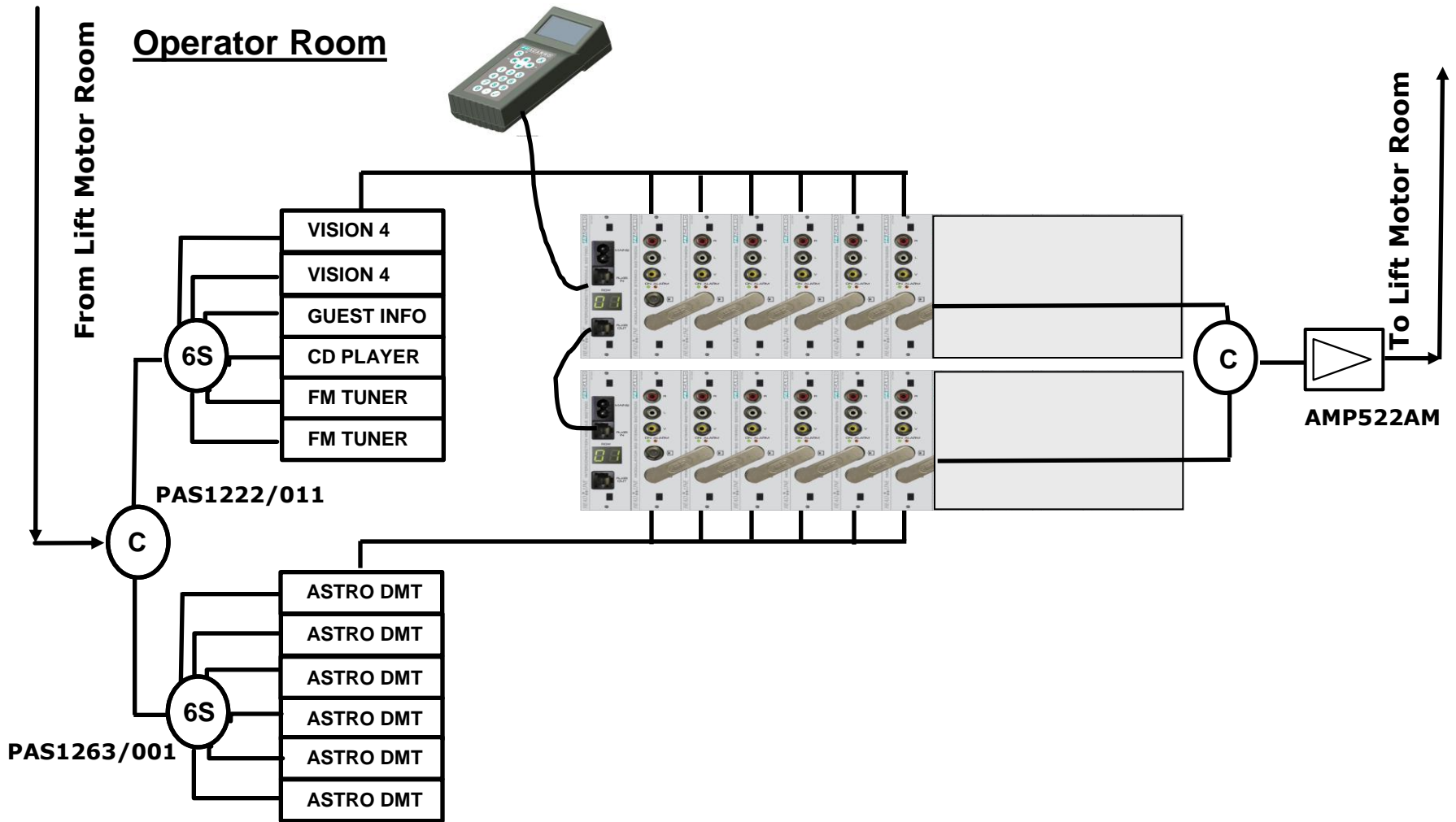
# Option-1

# Deluxe Hotels in Klang Valley

## Operator Room



# Option-2 *Deluxe Hotels in Klang Valley*



# ***Deluxe Hotels in Klang Valley***

## **SATELLITE DISH, ANTENNA & ACCESSORIES:**

<b>2FMF</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>BLV6F</b>	<b>VHF III Antenna</b>	<b>3 units</b>
<b>TAU15/45</b>	<b>UHF Antenna</b>	<b>3 units</b>
<b>STV-641</b>	<b>RF Lightning Arrestor</b>	<b>7 units</b>
<b>SK25</b>	<b>Mounting Bracket</b>	<b>7 units</b>
<b>DSD90</b>	<b>90cm Satellite Dish</b>	<b>1 unit</b>
<b>BS-011</b>	<b>UBB Lightning Arrestor</b>	<b>1 unit</b>

## **HEADEND (At Lift Motor Room) :**

<b>KCP</b>	<b>Terrestrial Converter</b>	<b>2 units</b>
<b>KF/**</b>	<b>Channelized Amplifier</b>	<b>4 units</b>
<b>KF/FM</b>	<b>FM Band Amplifier</b>	<b>1 unit</b>
<b>KX125E</b>	<b>SAT IF Amplifier</b>	<b>1 unit</b>
<b>KW33B</b>	<b>Final Amplifier 34dB</b>	<b>1 unit</b>
<b>KP35</b>	<b>Power Supply (3.5A)</b>	<b>1 unit</b>
<b>KD100</b>	<b>Wall Mount Kit</b>	<b>1 unit</b>
<b>AMP9762</b>	<b>RF Amplifier</b>	<b>1 Unit</b>
<b>PAS1222011</b>	<b>2-ways Combiner</b>	<b>1 unit</b>
<b>HMC</b>	<b>Headend Metal Cabinet</b>	<b>1 unit</b>

## Option-1

# *Deluxe Hotels in Klang Valley*

### HEADEND (At Operator Room) :

<b>KCMVS</b>	<b>Mod for ASTRO Channels</b>	<b>6 units</b>
<b>KCMUS</b>	<b>Mod for In-House Channels</b>	<b>4 units</b>
<b>KCMUS</b>	<b>Mod for Vision 4 Channels</b>	<b>2 units</b>
<b>KP35</b>	<b>Power Supply (3.5 Amp)</b>	<b>2 units</b>
<b>KD100</b>	<b>Wall Mount Kit</b>	<b>2 units</b>
<b>AMP522AM</b>	<b>RF Launch Amplifier</b>	<b>1 unit</b>
<b>PAS1223001</b>	<b>2-ways UBB Splitter</b>	<b>1 unit</b>
<b>PAS1222011</b>	<b>2-ways RF Splitter/Combiner</b>	<b>1 unit</b>
<b>PAS1263001</b>	<b>6-ways UBB Splitter</b>	<b>2 units</b>
<b>19RMWM</b>	<b>19" Equip Rack Mount</b>	<b>2 units</b>
	<b>19" 42UH Equip Rack c/w Tray</b>	<b>1 Unit</b>
	<b>ASTRO Decoder</b>	<b>6 units</b>
	<b>CD Player &amp; FM Tuner</b>	<b>3 units</b>
	<b>PC c/w AV Converter</b>	<b>1 unit</b>



## Option-2

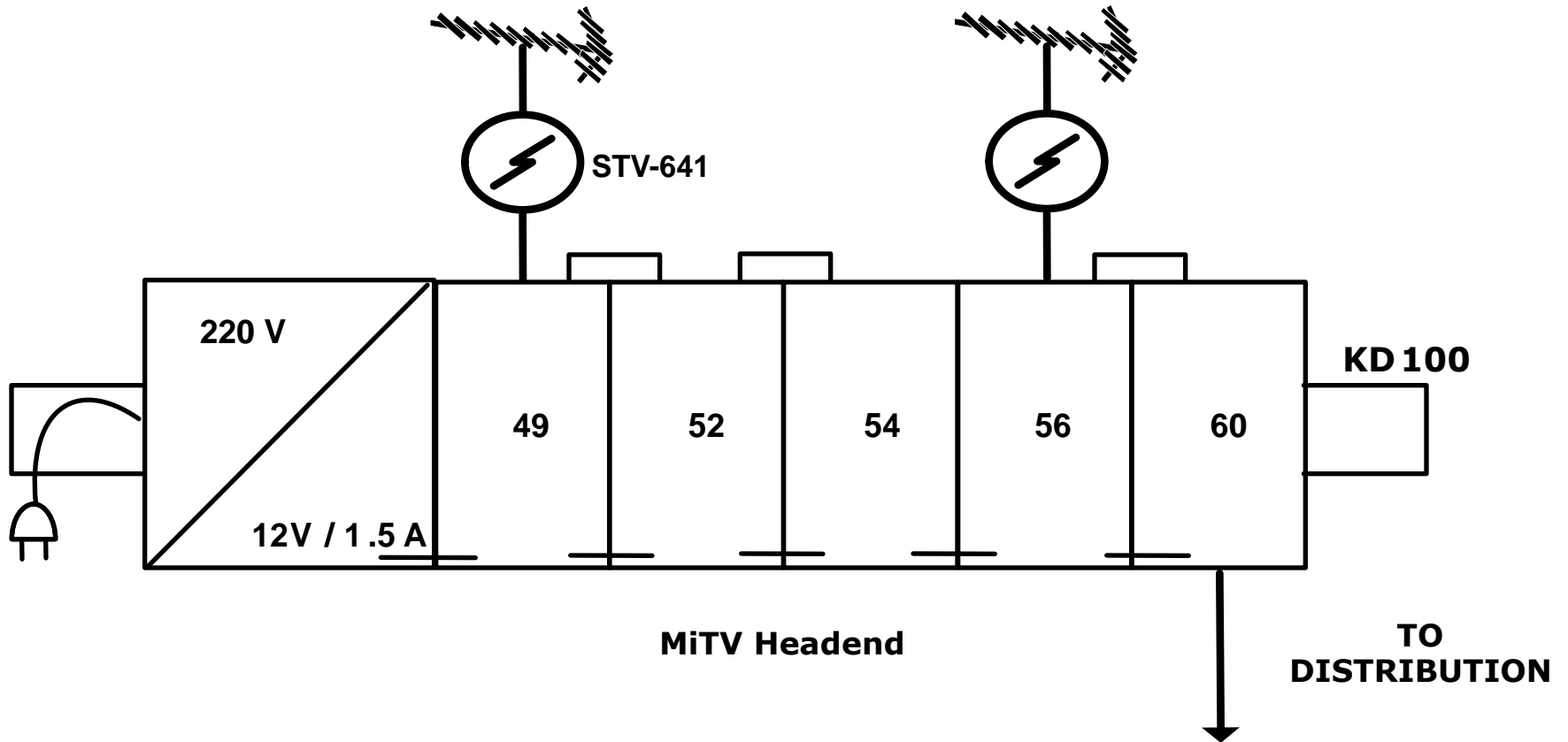
# *Deluxe Hotels in Klang Valley*

### HEADEND (At Operator Room) :

<b>SIG7901</b>	<b>19" Interconnect Module</b>	<b>2 units</b>
<b>SIG7280S</b>	<b>Mod for ASTRO</b>	<b>6 units</b>
<b>SIG7280S</b>	<b>Mod for Vision 4 &amp; In-House</b>	<b>6 units</b>
<b>SIG7904</b>	<b>Blank Front Plate</b>	<b>10 units</b>
<b>TPE</b>	<b>Programming Unit</b>	<b>1 unit</b>
<b>AMP522AM</b>	<b>RF Launch Amplifier</b>	<b>1 unit</b>
<b>PAS1223001</b>	<b>2-ways UBB Splitter</b>	<b>1 unit</b>
<b>PAS1263001</b>	<b>6-ways UBB Splitter</b>	<b>2 units</b>
	<b>19" 42UH Equip Rack c/w Tray</b>	<b>1 Unit</b>
	<b>ASTRO Decoder</b>	<b>6 units</b>
	<b>CD Player &amp; FM Tuner</b>	<b>3 units</b>
	<b>PC c/w AV Converter</b>	<b>1 unit</b>

# MiTV

<b>Freq. (MHz)</b>	<b>695</b>	<b>719</b>	<b>735</b>	<b>751</b>	<b>783</b>
<b>RF Channel</b>	<b>49</b>	<b>52</b>	<b>54</b>	<b>56</b>	<b>60</b>



## **ANTENNA & ACCESSORIES**

<b>BLU220F PLUS</b>	<b>UHF Antenna</b>	<b>2 units</b>
<b>STV-641</b>	<b>RF Lightning Arrestor</b>	<b>2 units</b>
<b>SK25</b>	<b>Antenna Mounting Kit</b>	<b>1 unit</b>

## **HEADEND**

<b>K120/**DT</b>	<b>DTT Channelized Amp</b>	<b>5 units</b>
<b>KP15</b>	<b>Power Supply Unit (1.5 Amp)</b>	<b>1 unit</b>
<b>KD100</b>	<b>Wall Mount Kit</b>	<b>1 unit</b>

# MiTV

