

2020



# PROJECT



**PRODUCTION LABEL  
PRINTING  
IT DEPARTMENT & WAWA**

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## 1.0 Introduction:

- To create and print label for production for Plastictecnic (M) Sdn Bhd – Bangi branch

## 2.0 Objective:

- To reduce human resource
- To reduce human hand writing error
- To increase efficiency of production



# System Features

## PLASTICTECNIC

By using Bartender

- Create label
- Change label information/ Discription
- Print label



## Projects Team

IT	Production Team
Kelvin - Infra	Wawa
Amar - Support	



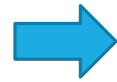
## Projects Team Line

No	Task	PIC	OCTOBER			
			W1	W2	W3	W4
	Label Printing Management					
1	Project kick off meeting	IT	■	■		
2	Project kick off meeting	All		■		
3	Hardware Preparation	IT		■	■	■
4	Label template development	IT		■	■	■
5	UAT	All				■
6	User Training	IT				■
7	Go Live	All				■



# Process Flow

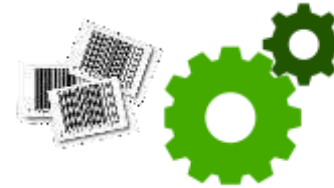
Bartender enter  
create label



Print label



Send to production



# Hardware Requirement



Desktop PC



Label Printer



Label Sticker  
+ Ribbon

# OPTION 1: Project Cost Estimate – FIFO Process By Stamping

Project Cost Estimate				
No	Item	Quantity	Unit Price	Total
Hardware				
1	Desktop with windows 10 (refurbish unit)	1	600	600
2	Citizen CLE 321 Barcode Printer	1	3300	3300
3	Label Sticker – Art Paper 60x70mm x 1000 pcs (Approx. 189000 labels per month)	200 rolls	16	3200
4	Label Sticker – Art Paper 60x70mm x 1000 pcs (Approx. 189000 labels per month)	600 rolls	13.50	8100
4	Thermal Transfer Ribbon 80x300mm (1 rolls ribbon can print 4100 pcs label )	50 rolls	18	900
5	Rubber Stamp	12	10	120
	<b>IF TAKE NO.3</b>			8120
	<b>IF TAKE NO.4</b>			13020
Software License				
1	Bartender Printer License**	1	0	0
	Total			0
	<b>Grand Total for N0.3</b>			<b>8,100.00</b>
	<b>Grand Total for N0.4</b>			<b>13,020.00</b>

\*\*Tested with free license, able to print normal label (No database)



## OPTION 2: Project Cost Estimate – FIFO Process By Color Label

Project Cost Estimate				
No	Item	Quantity	Unit Price	Total
Hardware				
1	Desktop with windows 10 (refurbish unit)	1	600	600
2	Citizen CLE 321 Barcode Printer	1	3300	3300
3	Label Sticker – Art Paper 60x70mm x 1000 pcs <i>*Min 10 rolls per colour x 12 Color – For 1 year usage</i>	2400 rolls	18	43,200
4	Label Sticker – Art Paper 60x70mm x 1000 pcs <i>*Min 10 rolls per colour x 3 Color – For 3 Month usage</i>	600 rolls	18	10,800
5	Thermal Transfer Ribbon 80x300mm	50 rolls	18	900
	<b>IF TAKE NO.3</b>			48,000
	<b>IF TAKE NO.4</b>			15,600
Software License				
1	Bartender Printer License**	1	0	0
	Total			
	<b>Grand Total for NO.3</b>			<b>48,000.00</b>
	<b>Grand Total for NO.4</b>			<b>15,600.00</b>

**\*\*Tested with free license, able to print normal label (No database). Change to color label need to get approval from customer**



# Monthly Cost Estimate Comparison – For Option 1

## Label Cost Estimate

No	Item	Quantity	Unit Price	Total
<b>A4 Paper (Approx. 189000 labels per month)</b>				
1	Labor cutting per hour (Base on Wawa Calculation) – Refer to continuing slide	N/A	6 – 6.25 Hour Rate	3348
2	Injection (Average 10250 pcs)	22 rims	8	176
3	Printing (Average 5500 pcs)	11 rims	8	88
4	A4 Printing b&w charge (500 pcs per rim x 33 rims)	16500	0.022	363
	<b>*Average 15750 ± pcs per month</b>			
5	FIFO Sticker - <b>Average pcs per month</b>	5312 pcs	0.0090	47.80
6	OPP Tape	189	1.85	349.65
	<b>Total</b>			<b>4,372.45</b>
<b>Label Sticker (Approx. 189000 labels per month)</b>				
1	Label Sticker – Art Paper 60x70mm x1000 pcs Blank White <b>*Average 16 ± rolls per month</b>	189 rolls	16	3024
2	Thermal Transfer Ribbon 80x300mm <b>*Average 4 ± rolls per month, 1 ribbon can print 4 rolls label sticker</b>	47 rolls	18	846
	<b>Total</b>			<b>3,870.00</b>

Total saving / month = RM502.45



## Monthly Cost Estimate Comparison – For Option 2

### Label Cost Estimate

No	Item	Quantity	Unit Price	Total
<b>A4 Paper (Approx. 189000 labels per month)</b>				
1	Labor cutting per hour (Base on Wawa Calculation) – Refer to continuing slide	N/A	6 – 6.25 Hour Rate	3348
2	Injection (Average 10250 pcs)	22 rims	8	176
3	Printing (Average 5500 pcs)	11 rims	8	88
4	A4 Printing b&w charge (500 pcs per rim x 33 rims)	16500	0.022	363
	<b>*Average 15750 ± pcs per month</b>			
5	FIFO Sticker - <b>Average pcs per month</b>	5312 pcs	0.0090	47.80
6	OPP Tape	189	1.85	349.65
	<b>Total</b>			<b>4,372.45</b>
<b>Label Sticker (Approx. 189000 labels per month)</b>				
1	Label Sticker – Art Paper 60x70mm x1000 pcs (Color Base) <b>*Average 16 ± rolls per month</b>	189 rolls	18	3,402
2	Thermal Transfer Ribbon 80x300mm <b>*Average 4 ± rolls per month, 1 ribbon can print 4 rolls label sticker</b>	47 rolls	18	846
	<b>Total</b>			<b>4,248.00</b>

Total saving / month = RM124.45



# Cont. Monthly Cost Estimate Comparison

## Injection Moulding

1. 20 to 30 Job Orders per day(20 to 30 Label Types)
2. Qty vary by Prod Order & Packaging Qty (150 to 350 sheets of A4 Papers / Day)
3. Assigned 2 Line Leaders + 1 SAP Clerk to prepare label (Input Data, Print/Copy, Paste FIFO Color Code Sticker, Cutting into final sizes) but, mostly labels passed to the machine operators themselves to cut & paste on Final Packaging (depends on criticality of the running part)
4. Fastest is 30 mins to prepare each label type.\* 5 mins to key in product descriptions.
  - \* 5 mins to print/copy
  - \* 5 mins to paste FIFO Color Sticker
  - \* 15 mins to cut into pieces & allocate to Machine.

## Remarks:

30 mins per Job Order

x 20 Jobs = 600mins (10hrs)

x 30 Jobs = 900mins (15hrs)

10 hrs ÷ 3 pax = 3.33hrs/pax

15 hrs ÷ 3 pax = 5.00hrs/pax

(RM60 to Rm90 / day)



# Cont. Monthly Cost Estimate Comparison

## Printing

1. 15 to 20 Job Orders per day(15 to 20 Label Types)
2. Qty vary by Prod Order & Packaging Qty (180 to 200 sheets of A4 Papers / Day)
3. Assigned 1 Line Leader to prepare label (Input Data, Print/Copy, Paste FIFO Color Code Sticker, Cutting into final sizes)
4. Fastest is 20 mins to prepare each label type.
  - \* 4 mins to key in product descriptions.
  - \* 3 mins to print/copy
  - \* 3 mins to paste FIFO Color Sticker
  - \* 10 mins to cut into pieces & allocate to Machine/Process.

## Remarks:

20 mins per Job Order

x 15 Jobs = 300mins (5hrs)

x 20 Jobs = 400mins (6.7hrs)

5 hrs ÷ 2 pax = 2.5hrs/pax

6.7 hrs ÷ 2 pax = 3.35hrs/pax



# Cont. Monthly Cost Estimate Comparison

## Summary

1. 15hrs to 21.7hrs spent / day
2. Rm91.30 to Rm131.90 / day
  - x 30 days = Rm2739 to Rm3957 / month
  - x 12 months = Rm32868 to Rm47484 / year



# Project Cost Estimate



**Preferred** Gaming Complete Set intel Core i7 8GB ddr3 500GB hdd + 19" monitor + Wifi + KB + M DESKTOP PC i5 i3 250gb Dell Lenovo Hp

4.8 ★★★★★ | 542 Ratings | 909 Sold

**RM579.00**

Lowest Price Guaranteed ⓘ

Coins Buy and earn 100 Shopee Coin ⓘ

Shipping Shipping To **Mantin, Negeri Sembilan** ∨  
Shipping Fee **RM11.79 - RM14.42** ∨

Specification:

CPU A Only	CPU A + 20" LCD	CPU B Only	CPU B + 20" LCD
CPU C Only	CPU C + 20" LCD	CPU D Only	CPU D + 20" LCD
<b>CPU E Only</b>	CPU E + 22" LCD	CPU F Only	CPU F + 22" LCD
CPU G Only	CPU G + 22" LCD	CPU H Only	CPU H + 20" LCD
CPU Q Only	CPU Q + 22" LCD		



# Sample

A4 Paper cutting

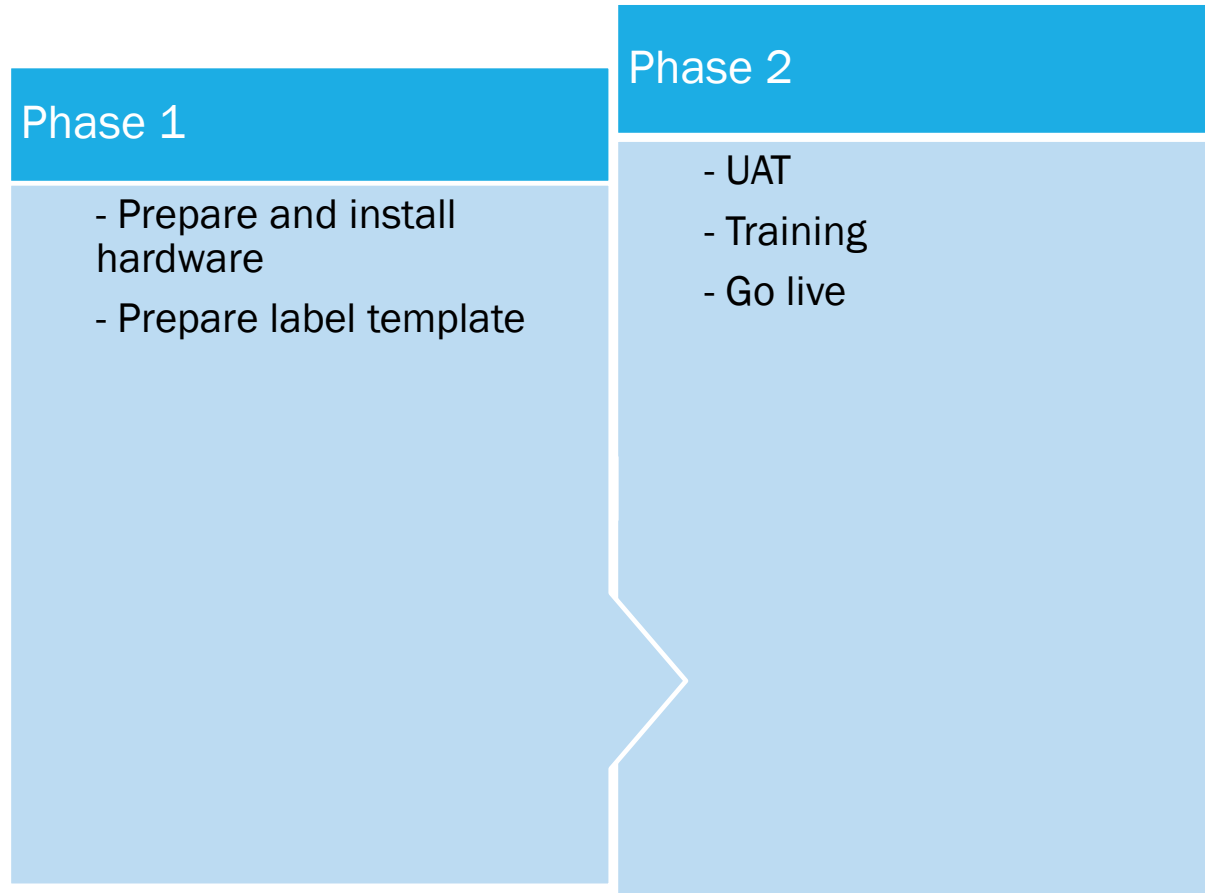
Sticker label with stamp



Stamp



## 3.0 Planning



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# Q & A

