



PROJECT

LM6001 Inventory Management

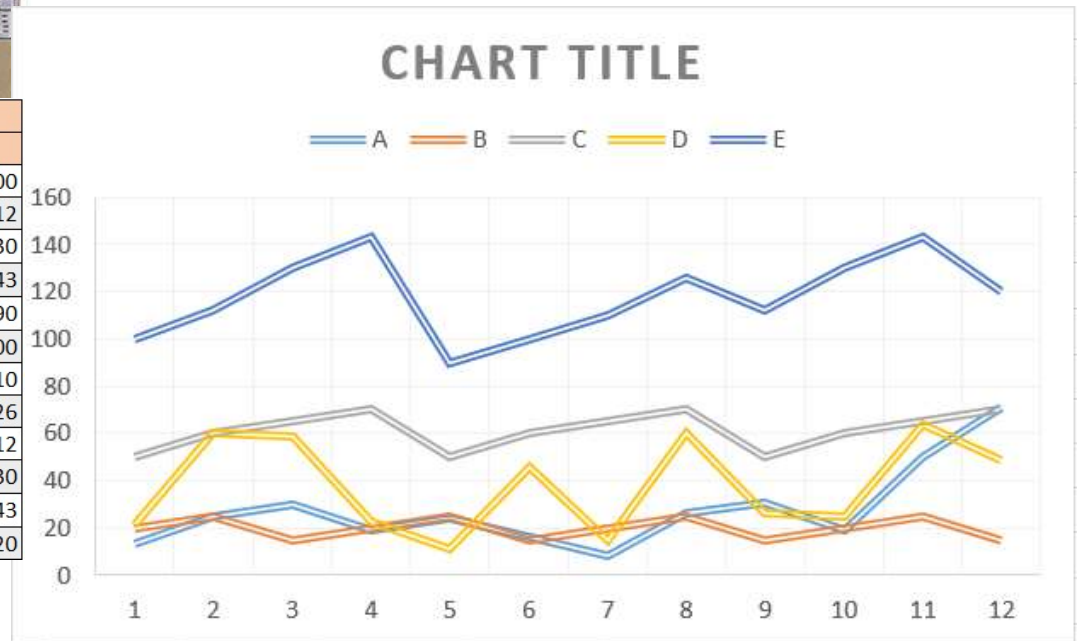


Demand ของสินค้า 5 รายการ

ในช่วงระยะเวลา 12 สัปดาห์



Demand	Product				
Week	A	B	C	D	E
1	13	20	50	21	100
2	25	25	60	60	112
3	30	15	65	59	130
4	19	20	70	23	143
5	24	25	50	11	90
6	16	15	60	46	100
7	8	20	65	15	110
8	26	25	70	60	126
9	31	15	50	26	112
10	19	20	60	25	130
11	50	25	65	64	143
12	71	15	70	49	120



Process

01 BOM

- กำหนด **Bill of Materials** ของสินค้าแต่ละรายการ

02 Order Policy

- ROP
- Lot size
- Lead time

03 Forecast

- พยากรณ์ **Consumption**
- กำหนด **Order quantity** ที่เหมาะสม

04 Simulation

- **Simulation of Inventory**



Bill of Materials

BOM	Product				
	A	B	C	D	E
SPANDEX ELASTIC	1	2	3	4	5
PE	5	1	2	3	4
Tape	3	5	1	2	4
Woodpulp	2	3	1	4	5
Tissue	5	4	3	2	1



Order Policy

Item	ROP	Lot size
SPANDEX ELASTIC	1500	3000
PE	1200	2000
Tape	2000	2500
Woodpulp	3000	5000
Tissue	1200	3000



Forecast



SPANDEX ELASTIC

Supplier	POO POO
ROP	1500
L/T (wk)	2
Lot size	3000



PE

Supplier	POO POO
ROP	1200
L/T (wk)	3
Lot size	2000



Tape

Supplier	POO POO
ROP	2000
L/T (wk)	1
Lot size	2500



Woodpulp

Supplier	POO POO
ROP	3000
L/T (wk)	4
Lot size	5000



Tissue

Supplier	POO POO
ROP	1200
L/T (wk)	2
Lot size	3000





1	Item	SPANDEX ELASTIC					
	Supplier	POO POO	ROP	1500			
	L/T (wk)	2Lot size		3000			
Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days
x					3,000	1	
x					-	-	
x				3,000	-	-	
1	3,000	787	3,000	5,213	-	-	37
2	5,213	1,055	-	4,158	-	-	29
3	4,158	1,141	-	3,017	-	-	21
4	3,017	1,076	-	1,941	-	-	14
5	1,941	718	-	1,223	3,000	7	9
6	1,223	910	-	313	3,000	8	2
7	313	853	3,000	2,460	-	-	17
8	2,460	1,156	3,000	4,304	-	-	30
9	4,304	875	-	3,429	-	-	24
10	3,429	989	-	2,440	-	-	17
11	2,440	1,266	-	1,174	3,000	13	8
12	1,174	1,107	-	67	3,000	14	0



B

2	Item	PE					
	Supplier	POO	POO	ROP	1200		
	L/T (wk)	3Lot size			2000		
Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days
x					2,000	1	
x					-	-	
x					-	-	
x				3,500	-	-	
1	3,500	648	2,000	4,852	-	-	34
2	4,852	898	-	3,954	-	-	28
3	3,954	992	-	2,962	-	-	21
4	2,962	896	-	2,066	-	-	15
5	2,066	638	-	1,428	-	-	10
6	1,428	753	-	675	2,000	9	5
7	675	675	-	-	2,000	10	0
8	-	979	-	(979)	2,000	11	-7
9	(979)	796	2,000	225	2,000	12	2
10	225	830	2,000	1,395	-	-	10
11	1,395	1,169	2,000	2,226	-	-	16
12	2,226	1,137	2,000	3,089	-	-	22





3	Item	Tape					
	Supplier	POO POO	ROP	2000			
	L/T (wk)	1 Lot size		2500			
Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days
x					-	-	
x				3,000	-	-	
1	3,000	631	-	2,369	-	-	17
2	2,369	828	-	1,541	2,500	3	11
3	1,541	868	2,500	3,173	-	-	22
4	3,173	845	-	2,328	-	-	16
5	2,328	629	-	1,699	2,500	6	12
6	1,699	675	2,500	3,524	-	-	25
7	3,524	659	-	2,865	-	-	20
8	2,865	897	-	1,968	2,500	9	14
9	1,968	718	2,500	3,750	-	-	26
10	3,750	787	-	2,963	-	-	21
11	2,963	1,040	-	1,923	2,500	12	14
12	1,923	936	2,500	3,487	-	-	25





4	Item	Woodpulp					
	Supplier	POO POO	ROP	3000			
	L/T (wk)	4Lot size		5000			
Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days
x					-	-	
x					5,000	2	
x					-	-	
x					-	-	
x				5,000	-	-	
1	5,000	720	-	4,280	-	-	30
2	4,280	985	5,000	8,295	-	-	58
3	8,295	1,056	-	7,239	-	-	51
4	7,239	975	-	6,264	-	-	44
5	6,264	667	-	5,597	-	-	39
6	5,597	821	-	4,776	-	-	34
7	4,776	751	-	4,025	-	-	28
8	4,025	1,067	-	2,958	5,000	12	21
9	2,958	821	-	2,137	5,000	13	15
10	2,137	908	-	1,229	5,000	14	9
11	1,229	1,211	-	18	5,000	15	0
12	18	1,053	-	(1,035)	5,000	16	-7





5	Item	Tissue					
	Supplier	POO POO		ROP	1200		
	L/T (wk)	2Lot size			3000		
Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days
x					-	-	
x					-	-	
x					3,300	3	
1	3,800	437	-	3,363	-	-	24
2	3,363	637	-	2,726	-	-	19
3	2,726	653	3,300	5,373	-	-	38
4	5,373	574	-	4,799	-	-	34
5	4,799	482	-	4,317	-	-	30
6	4,317	512	-	3,805	-	-	27
7	3,805	455	-	3,350	-	-	24
8	3,350	686	-	2,664	-	-	19
9	2,664	529	-	2,135	-	-	15
10	2,135	535	-	1,600	-	-	11
11	1,600	816	-	784	3,000	13	6
12	784	843	-	(59)	3,000	14	0



Inventory Simulation

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Demand	Product						BOM	Product															
2	Week	A	B	C	D	E		Item	A	B	C	D	E											
3	1	13	20	50	21	100		SPANDEX ELASTIC	1	2	3	4	5											
4	2	25	25	60	60	112		PE	5	1	2	3	4											
5	3	30	15	65	59	130		Tape	3	5	1	2	4											
6	4	19	20	70	23	143		Woodpulp	2	3	1	4	5											
7	5	24	25	50	11	90		Tissue	5	4	3	2	1											
8	6	16	15	60	46	100																		
9	7	8	20	65	15	110		Item	ROP	Lot size														
10	8	26	25	70	60	126		1 SPANDEX ELASTIC	1500	3000														
11	9	31	15	50	26	112		2 PE	1200	2000														
12	10	19	20	60	25	130		3 Tape	2000	2500														
13	11	50	25	65	64	143		4 Woodpulp	3000	5000														
14	12	71	15	70	49	120		5 Tissue	1200	3000														
15																								
16																								
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1	Item	SPANDEX ELASTIC	ROP	1500
2	Supplier	POO POO	Lot size	3000
L/T (wk)				

Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days
x					3,000	1	
x					-	-	
x					-	-	
1	3,000	787	3,000	5,213	-	-	37
2	5,213	1,055	-	4,158	-	-	29
3	4,158	1,141	-	3,017	-	-	21
4	3,017	1,076	-	1,941	-	-	14
5	1,941	718	-	1,223	3,000	7	9
6	1,223	910	-	313	3,000	8	2
7	313	853	3,000	2,460	-	-	17
8	2,460	1,156	3,000	4,304	-	-	30
9	4,304	875	-	3,429	-	-	24
10	3,429	989	-	2,440	-	-	17
11	2,440	1,266	-	1,174	3,000	13	8
12	1,174	1,107	-	67	3,000	14	0

On Hand	G23	=J22	$I_i = [IL_i]^+$
Consumption	H23	=(\$I\$3*\$B3)+(\$J\$3*\$C3)+(\$K\$3*\$D3)+(\$L\$3*\$E3)+(\$M\$3*\$F3)	
		=SUMPRODUCT(B3:F3,I3:M3)	
Arrival	I23	=SUMIF(L20:L22,F23,K20:K22)	$R_i = \sum 1(i = T_{i-k})Q_{i-k}$
Ending Stock	J23	=G23+I23-H23	$IL_i = IL_{i-1}^+ - D_i$
Order Quantity	K23	=IF(J23<=\$I\$17,\$I\$18,0)	
Order delivery period if an order if placed	L23	=IF(K23>0,F23+\$H\$18,0)	
Inventory days	M23	=IF(ISERROR(J23/AVERAGE(\$H\$23:\$H\$34)*7),,(J23/AVERAGE(\$H\$23:\$H\$34))*7)	



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Demand	Product						BOM	Product															
2	Week	A	B	C	D	E		Item	A	B	C	D	E											
3	1	13	20	50	21	100		SPANDEX ELASTIC	1	2	3	4	5											
4	2	25	25	60	60	112		PE	5	1	2	3	4											
5	3	30	15	65	59	130		Tape	3	5	1	2	4											
6	4	19	20	70	23	143		Woodpulp	2	3	1	4	5											
7	5	24	25	50	11	90		Tissue	5	4	3	2	1											
8	6	16	15	60	46	100																		
9	7	8	20	65	15	110																		
10	8	26	25	70	60	126																		
11	9	31	15	50	26	112																		
12	10	19	20	60	23	130																		
13	11	50	25	65	64	143																		
14	12	71	15	70	49	120																		
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34																								

Item	ROP	Lot size
1 SPANDEX ELASTIC	1500	3000
2 PE	1200	2000
3 Tape	2000	2500
4 Woodpulp	3000	5000
5 Tissue	1200	3000

1	Item	SPANDEX ELASTIC
	Supplier	POO POO
	L/T (wk)	
	ROP	1500
	Lot size	3000

Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days
x					3,000	1	
x					-	-	
x				3,000	-	-	
1	3,000	787	3,000	5,213	-	-	37
2	5,213	1,055	-	4,158	-	-	29
3	4,158	1,141	-	3,017	-	-	21
4	3,017	1,076	-	1,941	-	-	14
5	1,941	718	-	1,223	3,000	7	9
6	1,223	910	-	313	3,000	8	2
7	313	853	3,000	2,460	-	-	17
8	2,460	1,156	3,000	4,304	-	-	30
9	4,304	875	-	3,429	-	-	24
10	3,429	989	-	2,440	-	-	17
11	2,440	1,266	-	1,174	3,000	13	8
12	1,174	1,107	-	67	3,000	14	0

On Hand	G23	=J22	$I_t = [IL_t]^*$
Consumption	H23	$= (\$I\$3*\$B3) + (\$I\$3*\$C3) + (\$K\$3*\$D3) + (\$L\$3*\$E3) + (\$M\$3*\$F3)$ $= \text{SUMPRODUCT}(B3:F3, I3:M3)$	
Arrival	I23	$= \text{SUMIF}(L20:L22, F23, K20:K22)$ $R_t = \sum 1(i = T_{i-k})Q_{i-k}$	
Ending Stock	J23	$= G23 + I23 - H23$ $IL_t = IL_t^0 - D_t$	
Order Quantity	K23	$= \text{IF}(J23 <= \$J\$17, \$J\$18, 0)$	
Order delivery period if an order if placed	L23	$= \text{IF}(K23 > 0, F23 + \$H\$18, 0)$	
Inventory days	M23	$= \text{IF}(\text{ISERROR}(J23/\text{AVERAGE}(\$H\$23:\$H\$34)*7), (J23/\text{AVERAGE}(\$H\$23:\$H\$34))*7)$	



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Demand	Product						BOM	Product															
2	Week	A	B	C	D	E		Item	A	B	C	D	E											
3	1	13	20	50	21	100		SPANDEX ELASTIC	1	2	3	4	5											
4	2	25	25	60	60	112		PE	5	1	2	3	4											
5	3	30	15	65	59	130		Tape	3	5	1	2	4											
6	4	19	20	70	23	143		Woodpulp	2	3	1	4	5											
7	5	24	25	50	11	90		Tissue	5	4	3	2	1											
8	6	16	15	60	46	100																		
9	7	8	20	65	15	110		Item	ROP	Lot size														
10	8	26	25	70	60	126		1 SPANDEX ELASTIC	1500	3000														
11	9	31	15	50	26	112		2 PE	1200	2000														
12	10	19	20	60	25	130		3 Tape	2000	2500														
13	11	50	25	65	64	143		4 Woodpulp	3000	5000														
14	12	71	15	70	49	120		5 Tissue	1200	3000														
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1	Item	SPANDEX ELASTIC					
	Supplier	POO POO		ROP	1500		
	L/T (wk)			2 Lot size	3000		
Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days
x					3,000		1
x							
x							
1	3,000	787	3,000	5,213	-	-	37
2	5,213	1,055	-	4,158	-	-	29
3	4,158	1,141	-	3,017	-	-	21
4	3,017	1,076	-	1,941	-	-	14
5	1,941	718	-	1,223	3,000	7	9
6	1,223	910	-	313	3,000	8	2
7	313	853	3,000	2,460	-	-	17
8	2,460	1,156	3,000	4,304	-	-	30
9	4,304	875	-	3,429	-	-	24
10	3,429	989	-	2,440	-	-	17
11	2,440	1,266	-	1,174	3,000	13	8
12	1,174	1,107	-	67	3,000	14	0

On Hand

G23

=J22

$I_i = [IL_i]^*$

Consumption

H23

$=($I$3*$B3)+(J3*$C3)+($K$3*$D3)+(L3*$E3)+($M$3*$F3)$
 $=SUMPRODUCT(B3:F3,I3:M3)$

Arrival

I23

$=SUMIF(L20:L22,F23,K20:K22)$
 $R_i = \sum 1(i = T_{i-k})Q_{i-k}$

Ending Stock

J23

$=G23+I23-H23$
 $IL_i = IL_i^* - D_i$

Order Quantity

K23

=IF(J23<=\$J\$17,\$J\$18,0)

Order delivery period if an order if placed

L23

=IF(K23>0,F23+\$H\$18,0)

Inventory days

M23

$=IF(ISERROR(J23/AVERAGE($H$23:$H$34)*7),J23/AVERAGE($H$23:$H$34))*7$

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Demand	Product						BOM	Product															
2	Week	A	B	C	D	E		Item	A	B	C	D	E											
3	1	13	20	50	21	100		SPANDEX ELASTIC	1	2	3	4	5											
4	2	25	25	60	60	112		PE	5	1	2	3	4											
5	3	30	15	65	59	130		Tape	3	5	1	2	4											
6	4	19	20	70	23	143		Woodpulp	2	3	1	4	5											
7	5	24	25	50	11	90		Tissue	5	4	3	2	1											
8	6	16	15	60	46	100																		
9	7	8	20	65	15	110		Item	ROP	Lot size														
10	8	26	25	70	60	126		1 SPANDEX ELASTIC	1500	3000														
11	9	31	15	50	26	112		2 PE	1200	2000														
12	10	19	20	60	25	130		3 Tape	2000	2500														
13	11	50	25	65	64	143		4 Woodpulp	3000	5000														
14	12	71	15	70	49	120		5 Tissue	1200	3000														
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1	Item	SPANDEX ELASTIC																						
	Supplier	POO POO	ROP	1500																				
	L/T (wk)		2 Lot size	3000																				
	Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days																
	x					3,000	1																	
	x					-	-																	
	x					3,000	-																	
	1	3,000	787	3,000	5,213	-	-	37																
	2	5,213	1,055	-	4,158	-	-	29																
	3	4,158	1,141	-	3,017	-	-	21																
	4	3,017	1,076	-	1,941	-	-	14																
	5	1,941	718	-	1,223	3,000	7	9																
	6	1,223	910	-	313	3,000	8	2																
	7	313	853	3,000	2,460	-	-	17																
	8	2,460	1,156	3,000	4,304	-	-	30																
	9	4,304	875	-	3,429	-	-	24																
	10	3,429	989	-	2,440	-	-	17																
	11	2,440	1,266	-	1,174	3,000	13	8																
	12	1,174	1,107	-	67	3,000	14	0																

On Hand

G23

=J22

$I_i = (IL_i)^*$

Consumption

H23

$=(\$I\$3*\$B3)+(\$J\$3*\$C3)+(\$K\$3*\$D3)+(\$L\$3*\$E3)+(\$M\$3*\$F3)$
 $=SUMPRODUCT(B3:F3,I3:M3)$

Arrival

I23

$=SUMIF(L20:L22,F23,K20:K22)$
 $R_i = \sum 1(i = T_{i-k})Q_{i-k}$

Ending Stock

J23

$=G23+I23-H23$
 $IL_i = IL_i^* - D_i$

Order Quantity

K23

$=IF(J23<=\$J\$17,\$J\$18,0)$

Order delivery period if an order if placed

L23

$=IF(K23>0,F23+\$H\$18,0)$

Inventory days

M23

$=IF(ISERROR(J23/AVERAGE(\$H\$23:\$H\$34)*7),,(J23/AVERAGE(\$H\$23:\$H\$34))*7)$

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$$R_t = \sum 1(i = T_{i-k})Q_{i-k}$$

$$IL_t = IL_t^0 - D_t$$



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
1	Demand	Product						BOM	Product																
2	Week	A	B	C	D	E		Item	A	B	C	D	E												
3	1	13	20	50	21	100		SPANDEX ELASTIC	1	2	3	4	5												
4	2	25	25	60	60	112		PE	5	1	2	3	4												
5	3	30	15	65	59	130		Tape	3	5	1	2	4												
6	4	19	20	70	23	143		Woodpulp	2	3	1	4	5												
7	5	24	25	50	11	90		Tissue	5	4	3	2	1												
8	6	16	15	60	46	100																			
9	7	8	20	65	15	110		Item	ROP	Lot size															
10	8	26	25	70	60	126	1	SPANDEX ELASTIC	1500	3000															
11	9	31	15	50	26	112	2	PE	1200	2000															
12	10	19	20	60	25	130	3	Tape	2000	2500															
13	11	50	25	65	64	143	4	Woodpulp	3000	5000															
14	12	71	15	70	49	120	5	Tissue	1200	3000															
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1

Item

Supplier

L/T (wk)

SPANDEX ELASTIC

POO POO

ROP

Lot size

1500

3000

Week

On Hand

Consumption

Arrival

Ending stock

Order quantity

Order delivery period if an order if placed

Inventory days

x

3,000

1

x

-

-

x

3,000

-

-

1

3,000

787

3,000

5,213

-

-

2

5,213

1,055

-

4,158

-

-

3

4,158

1,141

-

3,017

-

-

4

3,017

1,076

-

1,941

-

-

5

1,941

718

-

1,223

3,000

7

6

1,223

910

-

313

3,000

8

7

313

853

3,000

2,460

-

-

8

2,460

1,156

3,000

4,304

-

-

9

4,304

875

-

3,429

-

-

10

3,429

989

-

2,440

-

-

11

2,440

1,266

-

1,174

3,000

13

12

1,174

1,107

-

67

3,000

14

On Hand

G23

=J22

$I_i = [IL_i]^+$

Consumption

H23

=(\$I\$3*\$B3)+(\$J\$3*\$C3)+(\$K\$3*\$D3)+(\$L\$3*\$E3)+(\$M\$3*\$F3)

=SUMPRODUCT(B3:F3,I3:M3)

Arrival

I23

=SUMIF(L20:L22,F23,K20:K22)

$R_i = \sum 1(i = T_{i-k})Q_{i-k}$

Ending Stock

J23

=G23+I23-H23

$IL_i = IL_{i-1}^+ - D_i$

Order Quantity

K23

=IF(J23<=\$J\$17,\$J\$18,0)

Order delivery period if an order if placed

L23

=IF(K23>0,F23+\$H\$18,0)

Inventory days

M23

=IF(ISERROR(J23/AVERAGE(\$H\$23:\$H\$34)*7),,(J23/AVERAGE(\$H\$23:\$H\$34))*7)



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
1	Demand	Product						BOM	Product																
2	Week	A	B	C	D	E		Item	A	B	C	D	E												
3	1	13	20	50	21	100		SPANDEX ELASTIC	1	2	3	4	5												
4	2	25	25	60	60	112		PE	5	1	2	3	4												
5	3	30	15	65	59	130		Tape	3	5	1	2	4												
6	4	19	20	70	23	143		Woodpulp	2	3	1	4	5												
7	5	24	25	50	11	90		Tissue	5	4	3	2	1												
8	6	16	15	60	46	100																			
9	7	8	20	65	15	110		Item	ROP	Lot size															
10	8	26	25	70	60	126		1 SPANDEX ELASTIC	1500	3000															
11	9	31	15	50	26	112		2 PE	1200	2000															
12	10	19	20	60	25	130		3 Tape	2000	2500															
13	11	50	25	65	64	143		4 Woodpulp	3000	5000															
14	12	71	15	70	49	120		5 Tissue	1200	3000															
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นโยบายปัจจุบัน

1	Item	SPANDEX ELASTIC																						
	Supplier	POO POO	ROP	1500																				
	L/T (wk)		2 Lot size	3000																				
	Week	On Hand	Consumption	Arrival	Ending stock	Order quantity	Order delivery period if an order if placed	Inventory days																
	x					3,000	1																	
	x					-	-																	
	x					-	-																	
	1	3,000	787	3,000	5,213			37																
	2	5,213	1,055	-	4,158	-	-	29																
	3	4,158	1,141	-	3,017	-	-	21																
	4	3,017	1,076	-	1,941	-	-	14																
	5	1,941	718	-	1,223	3,000	7	9																
	6	1,223	910	-	313	3,000	8	2																
	7	313	853	3,000	2,460	-	-	17																
	8	2,460	1,156	3,000	4,304	-	-	30																
	9	4,304	875	-	3,429	-	-	24																
	10	3,429	989	-	2,440	-	-	17																
	11	2,440	1,266	-	1,174	3,000	13	8																
	12	1,174	1,107	-	67	3,000	14	0																

On Hand

Consumption

Arrival

Ending Stock

Order Quantity

Order delivery period if an order if placed

Inventory days

$$I_i = [IL_i]^+$$
$$= (\$I\$3 * \$B3) + (\$J\$3 * \$C3) + (\$K\$3 * \$D3) + (\$L\$3 * \$E3) + (\$M\$3 * \$F3)$$
$$= \text{SUMPRODUCT}(B3:F3, I3:M3)$$
$$R_i = \sum 1(i = T_{i-k}) Q_{i-k}$$
$$IL_i = IL_i^0 - D_i$$
$$= \text{IF}(J23 <= \$J\$17, \$J\$18, 0)$$
$$= \text{IF}(K23 > 0, F23 + \$H\$18, 0)$$
$$= \text{IF}(\text{ISERROR}(J23 / \text{AVERAGE}(\$H\$23:\$H\$34) * 7), (J23 / \text{AVERAGE}(\$H\$23:\$H\$34)) * 7)$$

MEMBER

- 6220427012 ณภัทรา ณ เชียงใหม่
- 6220427004 พัฒน์ชญา พรรณวุฒิ
- 6220427018 มนสิชา ฐิตธรรมพันธ์
- 6220427014 ธนวัฒน์ สุขสถิต
- 6220427007 พชร คนชาญ
- 6220427017 รัฐประศาสน์ รักบางแหลม

