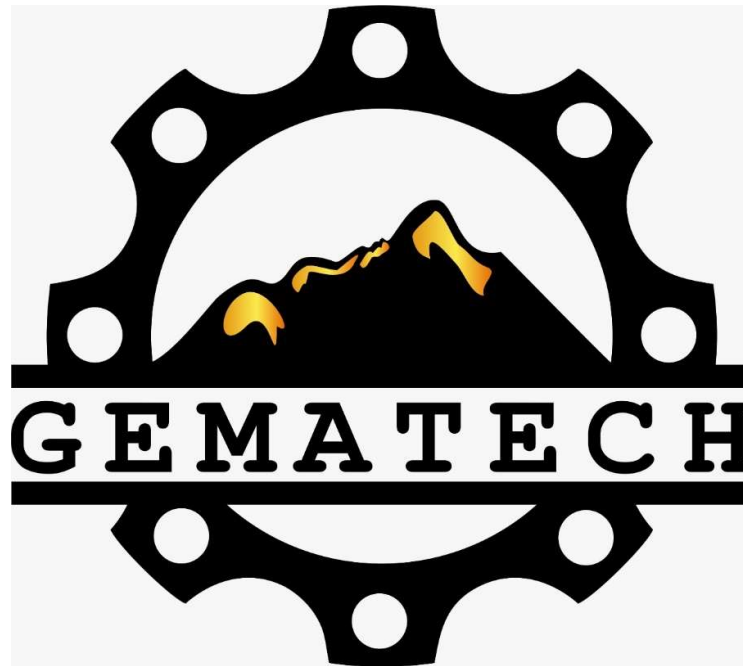
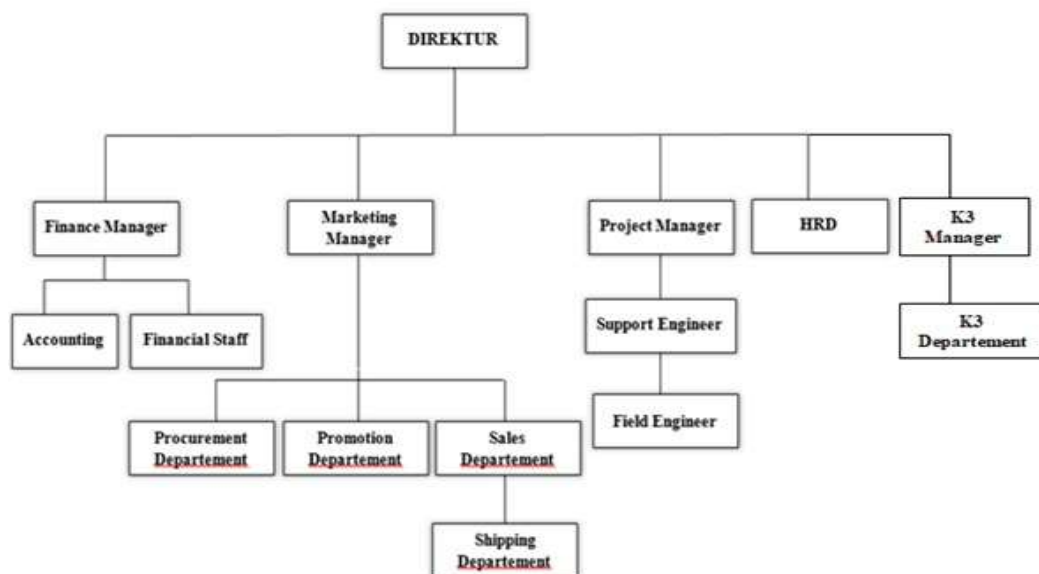


LAMPIRAN

Lampiran 1. Logo Perusahaan



Lampiran 2. Badan Organisasi Perusahaan



Lampiran 3. Dokumentasi Kegiatan Selama Praktik Kerja Lapangan (PKL)



Lampiran 4.1 Perhitungan Manual dari metode *Moving Average*

1. *Output* Metode *Moving Average* Menggunakan Perhitungan Manual

Permintaan Produksi ke-	A	F	A-F	A-F	(A-F) ²	$\frac{100}{ \frac{A-F}{A} }$
1	25					
2	50					
3	50					
4	25	41,667	-16,67	16,67	277,78	66,67
5	25	41,667	-16,6667	16,66667	277,7778	66,67
6	50	33,333	16,67	16,67	277,78	33,33
7	50	33,333	16,67	16,67	277,78	33,33
8	50	41,667	8,33	8,33	69,44	16,67
TOTAL			8,33	75,00	1180,56	216,67

- Peramalan periode ke 4

$$F_4 = \frac{25+50+50}{3} = 41,667$$

- Peramalan periode ke 5

$$F_5 = \frac{50+50+25}{3} = 41,667$$

- Peramalan periode ke 6

$$F_6 = \frac{50+25+25}{3} = 33,333$$

- Peramalan periode ke 7

$$F_7 = \frac{25+25+50}{3} = 33,333$$

- Peramalan periode ke 8

$$F_8 = \frac{25+50+50}{3} = 41,667$$

- Peramalan periode ke 9

$$F_9 = \frac{50+50+50}{3} = 50$$

- $MAD = \frac{\sum |A-F|}{n} = \frac{75}{5} = 15$

- $MSE = \frac{\sum |A-F|^2}{n} = \frac{1180,56}{5} = 236,111$

- $MAPE = \frac{\sum 100 \left| \frac{A-F}{A} \right|}{n} = \frac{216,67}{5} = 43,333$

- $Tracking\ Signal = \frac{RSFE}{MAD} = \frac{8,33}{15} = 0,555556$

Lampiran 4.2 Perhitungan Manual dari metode *Weighted moving average*

2. Perhitungan Manual Metode *Weighted Moving Average*

Periode	A	F	A-F	A-F	(A-F) ²	100 $\left \frac{A-F}{A} \right $
1	25					
2	50					
3	50					
4	25	40	-14,5	14,5	210,25	58
5	25	45	-19,75	19,75	390,0625	79
6	50	36	14,5	14,5	210,25	29
7	50	30	19,75	19,75	390,0625	39,50
8	50	40	10,5	10,5	110,25	21
Total			10,5	79	1310,875	226,50

- Peramalan periode ke 4

$$F_4 = (0,42 \times 25) + (0,37 \times 50) + (0,21 \times 50)$$

$$= 40$$

- Peramalan periode ke 5

$$F_5 = (0,42 \times 50) + (0,37 \times 50) + (0,21 \times 25)$$

$$= 45$$

- Peramalan periode ke 6

$$F_6 = (0,42 \times 50) + (0,37 \times 25) + (0,21 \times 25)$$

$$= 36$$

- Peramalan periode ke 7

$$F_7 = (0,42 \times 25) + (0,37 \times 25) + (0,21 \times 50)$$

$$= 30$$

- Peramalan periode ke 8

$$F_8 = (0,42 \times 25) + (0,37 \times 25) + (0,21 \times 50)$$

$$= 40$$

- Peramalan periode ke 9

$$F_9 = (0,42 \times 50) + (0,37 \times 50) + (0,21 \times 50)$$

$$= 50$$

- $MAD = \frac{\sum |A-F|}{n} = \frac{79}{5} = 15,8$

- $MSE = \frac{\sum |A-F|^2}{n} = \frac{1310,875}{5} = 262,18$

- $MAPE = \frac{\sum 100 \frac{|A-F|}{A}}{n} = \frac{226,5}{5} = 45,3$

- $Tracking\ Signal = \frac{RSFE}{MAD} = \frac{10,5}{15,8} = 0,665$

Lampiran 4.3 Perhitungan Manual dari metode Weighted moving average

3. Perhitungan Manual Metode *Single Exponential Smoothing*

Periode	A	F	A-F	A-F	(A-F) ²	100 $\left \frac{A-F}{A} \right $
1	25					
2	50	25	25	25	625	50
3	50	27,75	22,25	22,25	495,063	44,5
4	25	30,198	-5,198	5,198	27,014	20,79
5	25	29,626	-4,626	4,626	21,398	18,503
6	50	29,117	20,883	20,883	436,102	41,766
7	50	31,414	18,586	18,586	345,437	37,172
8	50	33,459	16,541	16,541	273,62	33,083
Total			93,44	113,08	2223,63	245,81

- Peramalan periode ke 2

$$F_2 = \text{Penjualan}_1 = 25$$

- Peramalan periode ke 3

$$F_3 = (0,11 \times 50) + ((1 - 0,11) \times 25) = 27,75$$

- Peramalan periode ke 4

$$F_4 = (0,11 \times 50) + ((1 - 0,11) \times 27,75) = 30,198$$

- Peramalan periode ke 5

$$F_5 = (0,11 \times 25) + ((1 - 0,11) \times 30,198) = 29,626$$

- Peramalan periode ke 6

$$F_6 = (0,11 \times 25) + ((1 - 0,11) \times 29,626) = 29,117$$

- Peramalan periode ke 7

$$F_7 = (0,11 \times 50) + ((1 - 0,11) \times 29,117) = 31,414$$

- Peramalan periode ke 8

$$F_8 = (0,11 \times 50) + ((1 - 0,11) \times 31,414) = 33,459s$$

- Peramalan periode ke 9

$$F_9 = (0,11 \times 50) + ((1 - 0,11) \times 33,459) = 35,278$$

- $MAD = \frac{\sum |A-F|}{n} = \frac{113,08}{11} = 10,28$
- $MSE = \frac{\sum |A-F|^2}{n} = \frac{2223,63}{11} = 202,15$
- $MAPE = \frac{\sum 100 \frac{|A-F|}{A}}{n} = \frac{245,81}{11} = 22,35$
- $Tracking\ Signal = \frac{RSFE}{MAD} = \frac{93,44}{10,28} = 9,1$