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# LAMPIRAN

Lampiran 1. 1 Input Perangkat Lunak Lingo

!FUNGSI TUJUAN;

MIN=5700\*X1\_1+5700\*X1\_2+5700\*X1\_3+5700\*X1\_4+5700\*X1\_5+5700\*X1\_6+5700\*X1\_7+5700\*X1\_8+5700\*X1\_9+5700\*X1\_10+5700\*X1\_11+5700\*X1\_12+3300\*X2\_1+3300\*X2\_2+3300\*X2\_3+3300\*X2\_4+3300\*X2\_5+3300\*X2\_6+3300\*X2\_7+3300\*X2\_8+3300\*X2\_9+3300\*X2\_10+3300\*X2\_11+3300\*X2\_12+3400\*X3\_1+3400\*X3\_2+3400\*X3\_3+3400\*X3\_4+3400\*X3\_5+3400\*X3\_6+3400\*X3\_7+3400\*X3\_8+3400\*X3\_9+3400\*X3\_10+3400\*X3\_11+3400\*X3\_12+3000\*X4\_1+3000\*X4\_2+3000\*X4\_3+3000\*X4\_4+3000\*X4\_5+3000\*X4\_6+3000\*X4\_7+3000\*X4\_8+3000\*X4\_9+3000\*X4\_10+3000\*X4\_11+3000\*X4\_12+14000\*X5\_1+14000\*X5\_2+14000\*X5\_3+14000\*X5\_4+14000\*X5\_5+14000\*X5\_6+14000\*X5\_7+14000\*X5\_8+14000\*X5\_9+14000\*X5\_10+14000\*X5\_11+14000\*X5\_12+10000\*X6\_1+10000\*X6\_2+10000\*X6\_3+10000\*X6\_4+10000\*X6\_5+10000\*X6\_6+10000\*X6\_7+10000\*X6\_8+10000\*X6\_9+10000\*X6\_10+10000\*X6\_11+10000\*X6\_12+3500\*X7\_1+3500\*X7\_2+3500\*X7\_3+3500\*X7\_4+3500\*X7\_5+3500\*X7\_6+3500\*X7\_7+3500\*X7\_8+3500\*X7\_9+3500\*X7\_10+3500\*X7\_11+3500\*X7\_12;

!FUNGSI BATASAN;

X1\_1-12 <= 50000;

X2\_1-12 <= 25000;

X3\_1-12 <= 1000;

X4\_1-12 <= 1500;

X5\_1-12 <= 5000;

X6\_1-12 <= 4000;

X7\_1-12 <= 40000;

X1\_1 >= 24600;

X1\_2 >= 30000;

X1\_3 >= 25800;

X1\_4 >= 26000;

X1\_5 >= 28000;

X1\_6 >= 31000;

X1\_7 >= 29500;

X1\_8 >= 33000;

X1\_9 >= 25300;

X1\_10 >= 25000;

X1\_11 >= 24100;

X1\_12 >= 25000;

X2\_1 >= 6600;

X2\_2 >= 7100;

X2\_3 >= 6700;

X2\_4 >= 7100;

X2\_5 >= 8000;

X2\_6 >= 10200;

X2\_7 >= 9500;

X2\_8 >= 11300;

X2\_9 >= 7200;

X2\_10 >= 7000;

X2\_11 >= 6500;

X2\_12 >= 7000;

X3\_1 >= 60;

X3\_2 >= 105;

X3\_3 >= 75;

X3\_4 >= 65;

X3\_5 >= 70;

X3\_6 >= 100;

X3\_7 >= 95;

X3\_8 >= 110;

X3\_9 >= 70;

X3\_10 >= 65;

X3\_11 >= 60;

X3\_12 >= 65;

X4\_1 >= 180;

X4\_2 >= 250;

X4\_3 >= 200;

X4\_4 >= 220;

X4\_5 >= 240;

X4\_6 >= 290;

X4\_7 >= 245;

X4\_8 >= 300;

X4\_9 >= 180;

X4\_10 >= 185;

X4\_11 >= 175;

X4\_12 >= 185;

X5\_1 >= 750;

X5\_2 >= 875;

X5\_3 >= 880;

X5\_4 >= 900;

X5\_5 >= 950;

X5\_6 >= 1000;

X5\_7 >= 850;

X5\_8 >= 1100;

X5\_9 >= 800;

X5\_10 >= 760;

X5\_11 >= 700;

X5\_12 >= 760;

X6\_1 >= 600;

X6\_2 >= 800;

X6\_3 >= 650;

X6\_4 >= 700;

X6\_5 >= 750;

X6\_6 >= 900;

X6\_7 >= 780;

X6\_8 >= 950;

X6\_9 >= 600;

X6\_10 >= 630;

X6\_11 >= 600;

X6\_12 >= 630;

X7\_1 >= 15000;

X7\_2 >= 17800;

X7\_3 >= 15500;

X7\_4 >= 16000;

X7\_5 >= 18000;

X7\_6 >= 20000;

X7\_7 >= 17500;

X7\_8 >= 20000;

X7\_9 >= 15000;

X7\_10 >= 15200;

X7\_11 >= 15000;

X7\_12 >= 15200;

!BATASAN NON NEGATIF;

X1<=0;

X2<=0;

X3<=0;

X4<=0;

X5<=0;

X6<=0;

X7<=0;

Lampiran 1. 2 Output Perangkat Lunak *Lingo*

Global optimal solution found.

Objective value: 0.3118766E+10

Infeasibilities: 0.000000

Total solver iterations: 0

Elapsed runtime seconds: 0.08

Model Class: LP

Total variables: 91

Nonlinear variables: 0

Integer variables: 0

Total constraints: 99

Nonlinear constraints: 0

Total nonzeros: 182

Nonlinear nonzeros: 0

Variable Value Reduced Cost

X1\_1 24600.00 0.000000

X1\_2 30000.00 0.000000

X1\_3 25800.00 0.000000

X1\_4 26000.00 0.000000

X1\_5 28000.00 0.000000

X1\_6 31000.00 0.000000

X1\_7 29500.00 0.000000

X1\_8 33000.00 0.000000

X1\_9 25300.00 0.000000

X1\_10 25000.00 0.000000

X1\_11 24100.00 0.000000

X1\_12 25000.00 0.000000

X2\_1 6600.000 0.000000

X2\_2 7100.000 0.000000

X2\_3 6700.000 0.000000

X2\_4 7100.000 0.000000

X2\_5 8000.000 0.000000

X2\_6 10200.00 0.000000

X2\_7 9500.000 0.000000

X2\_8 11300.00 0.000000

X2\_9 7200.000 0.000000

X2\_10 7000.000 0.000000

X2\_11 6500.000 0.000000

X2\_12 7000.000 0.000000

X3\_1 60.00000 0.000000

X3\_2 105.0000 0.000000

X3\_3 75.00000 0.000000

X3\_4 65.00000 0.000000

X3\_5 70.00000 0.000000

X3\_6 100.0000 0.000000

X3\_7 95.00000 0.000000

X3\_8 110.0000 0.000000

X3\_9 70.00000 0.000000

X3\_10 65.00000 0.000000

X3\_11 60.00000 0.000000

X3\_12 65.00000 0.000000

X4\_1 180.0000 0.000000

X4\_2 250.0000 0.000000

X4\_3 200.0000 0.000000

X4\_4 220.0000 0.000000

X4\_5 240.0000 0.000000

X4\_6 290.0000 0.000000

X4\_7 245.0000 0.000000

X4\_8 300.0000 0.000000

X4\_9 180.0000 0.000000

X4\_10 185.0000 0.000000

X4\_11 175.0000 0.000000

X4\_12 185.0000 0.000000

X5\_1 750.0000 0.000000

X5\_2 875.0000 0.000000

X5\_3 880.0000 0.000000

X5\_4 900.0000 0.000000

X5\_5 950.0000 0.000000

X5\_6 1000.000 0.000000

X5\_7 850.0000 0.000000

X5\_8 1100.000 0.000000

X5\_9 800.0000 0.000000

X5\_10 760.0000 0.000000

X5\_11 700.0000 0.000000

X5\_12 760.0000 0.000000

X6\_1 600.0000 0.000000

X6\_2 800.0000 0.000000

X6\_3 650.0000 0.000000

X6\_4 700.0000 0.000000

X6\_5 750.0000 0.000000

X6\_6 900.0000 0.000000

X6\_7 780.0000 0.000000

X6\_8 950.0000 0.000000

X6\_9 600.0000 0.000000

X6\_10 630.0000 0.000000

X6\_11 600.0000 0.000000

X6\_12 630.0000 0.000000

X7\_1 15000.00 0.000000

X7\_2 17800.00 0.000000

X7\_3 15500.00 0.000000

X7\_4 16000.00 0.000000

X7\_5 18000.00 0.000000

X7\_6 20000.00 0.000000

X7\_7 17500.00 0.000000

X7\_8 20000.00 0.000000

X7\_9 15000.00 0.000000

X7\_10 15200.00 0.000000

X7\_11 15000.00 0.000000

X7\_12 15200.00 0.000000

X1 0.000000 0.000000

X2 0.000000 0.000000

X3 0.000000 0.000000

X4 0.000000 0.000000

X5 0.000000 0.000000

X6 0.000000 0.000000

X7 0.000000 0.000000

Row Slack or Surplus Dual Price

1 0.3118766E+10 -1.000000

2 25412.00 0.000000

3 18412.00 0.000000

4 952.0000 0.000000

5 1332.000 0.000000

6 4262.000 0.000000

7 3412.000 0.000000

8 25012.00 0.000000

9 0.000000 -5700.000

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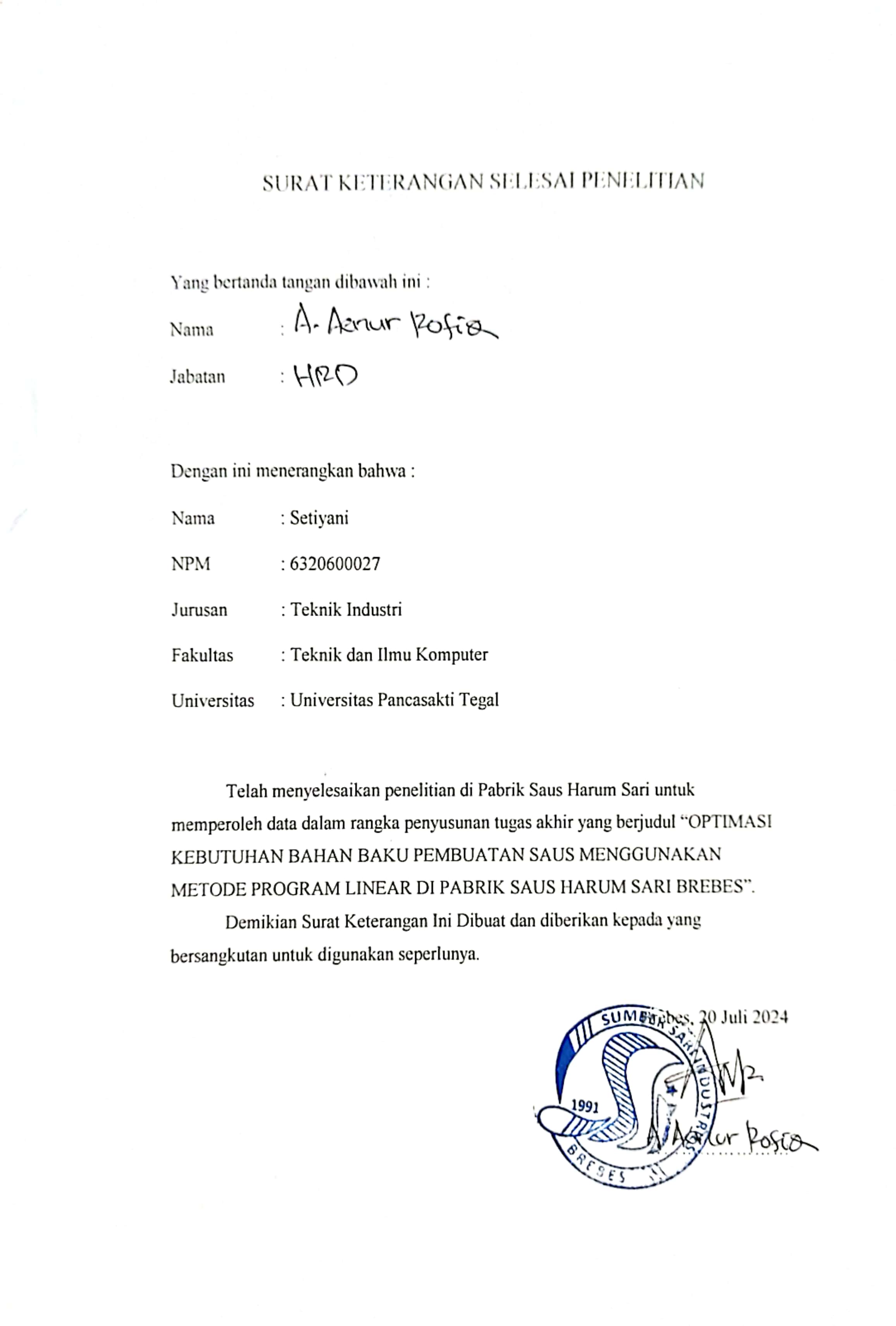
99 0.000000 0.000000

Lampiran 1. 3 Gambar Penelitian





Lampiran 1. 4 Surat Keterangan Selesai Penelitian



Lampiran 1. 5 Lembar Bimbingan

