

LAMPIRAN

Lampiran 1 Perhitungan Availability Rate

a. Hari Ke-2

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{261,79 \text{ menit}}{385,32 \text{ menit}} \times 100\% = \mathbf{67,94\%}$$

b. Hari Ke-3

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{261,65 \text{ menit}}{384,39 \text{ menit}} \times 100\% = \mathbf{68,07\%}$$

c. Hari Ke-4

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{260,49 \text{ menit}}{387,93 \text{ menit}} \times 100\% = \mathbf{67,15\%}$$

d. Hari Ke-5

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{259,67 \text{ menit}}{386,91 \text{ menit}} \times 100\% = \mathbf{67,11\%}$$

e. Hari Ke-6

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{265,18 \text{ menit}}{387,77 \text{ menit}} \times 100\% = \mathbf{68,39\%}$$

f. Hari Ke-7

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{254,74 \text{ menit}}{384,36 \text{ menit}} \times 100\% = \mathbf{66,28\%}$$

g. Hari Ke-8

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{262,65 \text{ menit}}{386,19 \text{ menit}} \times 100\% = \mathbf{68,01\%}$$

h. Hari Ke-9

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{262,73 \text{ menit}}{386,66 \text{ menit}} \times 100\% = \mathbf{67,95\%}$$

i. Hari Ke-10

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{258,84 \text{ menit}}{384,99 \text{ menit}} \times 100\% = \mathbf{67,23\%}$$

j. Hari Ke-11

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{265,48 \text{ menit}}{387,85 \text{ menit}} \times 100\% = \mathbf{68,45\%}$$

k. Hari Ke-12

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{261,26 \text{ menit}}{386,16 \text{ menit}} \times 100\% = \mathbf{67,66\%}$$

l. Hari Ke-13

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{261,87 \text{ menit}}{384,50 \text{ menit}} \times 100\% = \mathbf{68,11\%}$$

m. Hari Ke-14

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{258,94 \text{ menit}}{386,67 \text{ menit}} \times 100\% = \mathbf{66,97\%}$$

n. Hari Ke-15

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{262,02 \text{ menit}}{383,66 \text{ menit}} \times 100\% = \mathbf{68,29\%}$$

o. Hari Ke-16

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{260,85 \text{ menit}}{385,94 \text{ menit}} \times 100\% = \mathbf{67,59\%}$$

p. Hari Ke-17

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{261,16 \text{ menit}}{388,64 \text{ menit}} \times 100\% = \mathbf{67,20\%}$$

q. Hari Ke-18

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{257,71 \text{ menit}}{382,60 \text{ menit}} \times 100\% = \mathbf{67,36\%}$$

r. Hari Ke-19

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{258,19 \text{ menit}}{386,05 \text{ menit}} \times 100\% = \mathbf{66,88\%}$$

s. Hari Ke-20

$$\text{Availability Rate} = \frac{\text{Operating Time}}{\text{Loading Time}} \times 100\%$$

$$\text{Availability Rate} = \frac{257,03 \text{ menit}}{382,35 \text{ menit}} \times 100\% = \mathbf{67,22\%}$$

Lampiran 2 Perhitungan *Performance Efficiency*

a. Hari Ke-2

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{837,85 \times 0,20}{261,79} \times 100\% = \mathbf{64,01\%}$$

b. Hari Ke-3

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{828,79 \times 0,20}{261,65} \times 100\% = \mathbf{63,35\%}$$

c. Hari Ke-4

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{812,85 \times 0,20}{260,49} \times 100\% = \mathbf{62,41\%}$$

d. Hari Ke-5

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{829,25 \times 0,20}{259,67} \times 100\% = \mathbf{63,87\%}$$

e. Hari Ke-6

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{815,29 \times 0,20}{265,18} \times 100\% = \mathbf{61,49\%}$$

f. Hari Ke-7

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{823,47 \times 0,20}{254,74} \times 100\% = \mathbf{64,65\%}$$

g. Hari Ke-8

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{819,19 \times 0,20}{262,65} \times 100\% = \mathbf{62,38\%}$$

h. Hari Ke-9

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{811,45 \times 0,20}{262,73} \times 100\% = \mathbf{61,77\%}$$

i. Hari Ke-10

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{825,91 \times 0,20}{258,84} \times 100\% = \mathbf{63,82\%}$$

j. Hari Ke-11

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{830,38 \times 0,20}{265,48} \times 100\% = \mathbf{62,56\%}$$

k. Hari Ke-12

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{824,12 \times 0,20}{261,26} \times 100\% = \mathbf{63,09\%}$$

l. Hari Ke-13

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{803,90 \times 0,20}{261,87} \times 100\% = \mathbf{61,40\%}$$

m. Hari Ke-14

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{794,56 \times 0,20}{258,94} \times 100\% = \mathbf{61,37\%}$$

n. Hari Ke-15

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{790,65 \times 0,20}{262,02} \times 100\% = \mathbf{60,35\%}$$

o. Hari Ke-16

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{824,70 \times 0,20}{261,16} \times 100\% = \mathbf{60,49\%}$$

p. Hari Ke-17

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{803,13 \times 0,20}{257,71} \times 100\% = \mathbf{63,16\%}$$

q. Hari Ke-18

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{781,54 \times 0,20}{258,19} \times 100\% = \mathbf{62,33\%}$$

r. Hari Ke-19

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{789,30 \times 0,20}{257,03} \times 100\% = \mathbf{60,54\%}$$

s. Hari Ke-20

$$\text{Performance Efficiency} = \frac{\text{Actual Cutt Length} \times \text{Ideal Cycle Time}}{\text{Operating Time}} \times 100\%$$

$$\text{Performance Efficiency} = \frac{824,70 \times 0,20}{261,16} \times 100\% = \mathbf{61,42\%}$$

Lampiran 3 Perhitungan *Rate Of Quality*

a. Hari Ke-2

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.544 - 24}{2.544} \times 100\% = \mathbf{99,06\%}$$

b. Hari Ke-3

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.496 - 17}{2.496} \times 100\% = \mathbf{99,32\%}$$

c. Hari Ke-4

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.276 - 26}{2.276} \times 100\% = \mathbf{98,86\%}$$

d. Hari Ke-5

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.377 - 31}{2.377} \times 100\% = \mathbf{98,70\%}$$

e. Hari Ke-6

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.287 - 20}{2.287} \times 100\% = \mathbf{99,13\%}$$

f. Hari Ke-7

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.351 - 17}{2.351} \times 100\% = \mathbf{99,28\%}$$

g. Hari Ke-8

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.332 - 24}{2.332} \times 100\% = \mathbf{98,97\%}$$

h. Hari Ke-9

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.314 - 27}{2.314} \times 100\% = \mathbf{98,83\%}$$

i. Hari Ke-10

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.389 - 30}{2.389} \times 100\% = \mathbf{98,74\%}$$

j. Hari Ke-11

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.261 - 20}{2.261} \times 100\% = \mathbf{99,12\%}$$

k. Hari Ke-12

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.363 - 28}{2.363} \times 100\% = \mathbf{98,82\%}$$

l. Hari Ke-13

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.355 - 24}{2.355} \times 100\% = \mathbf{98,98\%}$$

m. Hari Ke-14

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.274 - 27}{2.274} \times 100\% = \mathbf{98,81\%}$$

n. Hari Ke-15

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.400 - 16}{2.400} \times 100\% = \mathbf{99,33\%}$$

o. Hari Ke-16

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.358 - 13}{2.358} \times 100\% = \mathbf{99,45\%}$$

p. Hari Ke-17

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.319 - 33}{2.319} \times 100\% = \mathbf{98,58\%}$$

q. Hari Ke-18

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.439 - 19}{2.439} \times 100\% = \mathbf{99,22\%}$$

r. Hari Ke-19

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.344 - 25}{2.344} \times 100\% = \mathbf{98,93\%}$$

s. Hari Ke-20

$$\text{Rate Of Quality} = \frac{\text{Jumlah Aktual Potong} - \text{Jumlah Cacat}}{\text{Jumlah Aktual Potong}} \times 100\%$$

$$\text{Rate Of Quality} = \frac{2.287 - 30}{2.287} \times 100\% = \mathbf{98,69\%}$$

Lampiran 4 Perhitungan *Equipment Failure Losses*

a. Hari Ke-2

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{74,11}{385,32} \times 100\% = \mathbf{19,23\%}$$

b. Hari Ke-3

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{72,17}{384,39} \times 100\% = \mathbf{18,78\%}$$

c. Hari Ke-4

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{74,43}{387,93} \times 100\% = \mathbf{19,19\%}$$

d. Hari Ke-5

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{73,97}{386,91} \times 100\% = \mathbf{19,12\%}$$

e. Hari Ke-6

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{73,04}{387,77} \times 100\% = \mathbf{18,84\%}$$

f. Hari Ke-7

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{76,19}{384,36} \times 100\% = \mathbf{19,82\%}$$

g. Hari Ke-8

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{74,17}{386,19} \times 100\% = \mathbf{19,21\%}$$

h. Hari Ke-9

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{72,75}{386,66} \times 100\% = \mathbf{18,81\%}$$

i. Hari Ke-10

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{73,87}{384,99} \times 100\% = \mathbf{19,19\%}$$

j. Hari Ke-11

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{72,88}{387,85} \times 100\% = \mathbf{18,79\%}$$

k. Hari Ke-12

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{74,32}{386,16} \times 100\% = \mathbf{19,25\%}$$

l. Hari Ke-13

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{72,34}{384,50} \times 100\% = \mathbf{18,81\%}$$

m. Hari Ke-14

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{75,41}{386,67} \times 100\% = \mathbf{19,50\%}$$

n. Hari Ke-15

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{72,39}{383,66} \times 100\% = \mathbf{18,87\%}$$

o. Hari Ke-16

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{72,76}{385,94} \times 100\% = \mathbf{18,85\%}$$

p. Hari Ke-17

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{75,05}{388,64} \times 100\% = \mathbf{19,31\%}$$

q. Hari Ke-18

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{74,19}{382,60} \times 100\% = \mathbf{19,39\%}$$

r. Hari Ke-19

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{74,28}{386,05} \times 100\% = \mathbf{19,50\%}$$

s. Hari Ke-20

$$\text{Equipment Failure Losses} = \frac{\text{Total Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Equipment Failure Losses} = \frac{75,94}{382,35} \times 100\% = \mathbf{19,86\%}$$

Lampiran 5 Perhitungan Set Up Adjustment Losses

a. Hari Ke-2

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{49,42}{385,32} \times 100\% = \mathbf{12,83\%}$$

b. Hari Ke-3

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{50,57}{384,39} \times 100\% = \mathbf{13,16\%}$$

c. Hari Ke-4

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{53,01}{387,93} \times 100\% = \mathbf{13,66\%}$$

d. Hari Ke-5

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{53,27}{386,91} \times 100\% = \mathbf{13,77\%}$$

e. Hari Ke-6

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{49,55}{387,77} \times 100\% = \mathbf{12,78\%}$$

f. Hari Ke-7

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{53,43}{384,36} \times 100\% = \mathbf{13,90\%}$$

g. Hari Ke-8

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{49,37}{386,19} \times 100\% = \mathbf{12,78\%}$$

h. Hari Ke-9

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{51,18}{386,66} \times 100\% = \mathbf{13,24\%}$$

i. Hari Ke-10

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{52,28}{384,99} \times 100\% = \mathbf{13,58\%}$$

j. Hari Ke-11

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{49,49}{387,85} \times 100\% = \mathbf{12,76\%}$$

k. Hari Ke-12

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{50,58}{386,16} \times 100\% = \mathbf{13,10\%}$$

l. Hari Ke-13

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{50,29}{384,50} \times 100\% = \mathbf{13,08\%}$$

m. Hari Ke-14

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{55,32}{386,67} \times 100\% = \mathbf{13,53\%}$$

n. Hari Ke-15

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{49,25}{383,66} \times 100\% = \mathbf{12,84\%}$$

o. Hari Ke-16

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{52,33}{385,94} \times 100\% = \mathbf{13,56\%}$$

p. Hari Ke-17

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{52,43}{388,64} \times 100\% = \mathbf{13,49\%}$$

q. Hari Ke-18

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{50,70}{382,60} \times 100\% = \mathbf{13,25\%}$$

r. Hari Ke-19

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{52,58}{386,05} \times 100\% = \mathbf{13,62\%}$$

s. Hari Ke-20

$$\text{Set Up Adjustment Losses} = \frac{\text{Set Up Downtime}}{\text{Loading Time}} \times 100\%$$

$$\text{Set Up Adjustment Losses} = \frac{49,38}{382,35} \times 100\% = \mathbf{12,91\%}$$

Lampiran 6 Perhitungan *Idle and Minor Stoppage Losses*

a. Hari Ke-2

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.226,34 - 837,85) \times 0,20}{385,32} \times 100\% = \mathbf{20,16\%} \end{aligned}$$

b. Hari Ke-3

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.216,87 - 828,79) \times 0,20}{384,39} \times 100\% = \mathbf{20,19\%} \end{aligned}$$

c. Hari Ke-4

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.212,22 - 812,85) \times 0,20}{387,93} \times 100\% = \mathbf{20,59\%} \end{aligned}$$

d. Hari Ke-5

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.231,90 - 829,25) \times 0,20}{386,91} \times 100\% = \mathbf{20,81\%} \end{aligned}$$

e. Hari Ke-6

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.239,67 - 815,29) \times 0,20}{387,77} \times 100\% = \mathbf{21,89\%} \end{aligned}$$

f. Hari Ke-7

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.223,78 - 823,47) \times 0,20}{384,36} \times 100\% = \mathbf{20,83\%} \end{aligned}$$

g. Hari Ke-8

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.215,45 - 819,19) \times 0,20}{386,19} \times 100\% = \mathbf{20,52\%} \end{aligned}$$

h. Hari Ke-9

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.229,03 - 811,45) \times 0,20}{386,66} \times 100\% = \mathbf{21,60\%} \end{aligned}$$

i. Hari Ke-10

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.224,21 - 825,91) \times 0,20}{384,99} \times 100\% = \mathbf{20,69\%} \end{aligned}$$

j. Hari Ke-11

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.256,45 - 830,38) \times 0,20}{387,85} \times 100\% = \mathbf{21,97\%} \end{aligned}$$

k. Hari Ke-12

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.219,76 - 824,12) \times 0,20}{386,16} \times 100\% = \mathbf{20,49\%} \end{aligned}$$

l. Hari Ke-13

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.215,89 - 803,90) \times 0,20}{384,50} \times 100\% = \mathbf{21,43\%} \end{aligned}$$

m. Hari Ke-14

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.195,65 - 794,56) \times 0,20}{386,67} \times 100\% = \mathbf{20,75\%} \end{aligned}$$

n. Hari Ke-15

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.219,12 - 790,65) \times 0,20}{383,66} \times 100\% = \mathbf{22,34\%} \end{aligned}$$

o. Hari Ke-16

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.215,77 - 788,98) \times 0,20}{385,94} \times 100\% = \mathbf{22,12\%} \end{aligned}$$

p. Hari Ke-17

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.208,56 - 824,70) \times 0,20}{388,64} \times 100\% = \mathbf{19,75\%} \end{aligned}$$

q. Hari Ke-18

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.204,15 - 803,13) \times 0,20}{382,60} \times 100\% = \mathbf{20,96\%} \end{aligned}$$

r. Hari Ke-19

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.198,45 - 781,54) \times 0,20}{386,05} \times 100\% = \mathbf{21,60\%} \end{aligned}$$

s. Hari Ke-20

$$\begin{aligned} &= \frac{(\text{Target Cutting} - \text{Aktual Cut}) \times \text{Ideal Cycle Time}}{\text{Loading Time}} \times 100\% \\ &= \frac{(1.195,32 - 789,30) \times 0,20}{382,35} \times 100\% = \mathbf{21,24\%} \end{aligned}$$