LAMPIRAN E

PERHITUNGAN JAM KERJA DAN KETERSEDIAAN ALAT GALI MUAT SAAT INI

1. Excavator Hitachi 1200

Waktu tersedia = Waktu efektif, Jam/bulan

Operating standby (S1) = Waktu tidak dapat dihindari, Jam/bulan

Operating delay (S2) = Waktu dapat dihindari, Jam/bulan

Operating idle (S3) = Waktu dapat dihindari, Jam/bulan

Standby = waktu kesiapan alat mekanis (operasi) yaitu waktu tidak dapat dihindari dan dapat dihindari, Jam/bulan.

Diketahui :

Waktu tersedia = 20 Jam/hari = 600 Jam/bulan

S1 = 295 menit/hari

$$= \frac{(15\ menit\ x\ 4\ kali\ perbulan)+(280\ menit/hari\ x\ 30\ hari/bulan)}{60\ menit}$$

= 141 jam/bulan

S2 = 161 menit/hari = 80,5 Jam/bulan

S3 = 29 menit/hari = 14.5 Jam/bulan

Standby = S1 + S2 + S3 = 236 Jam/bulan

Repair = 35 Jam/bulan

Working Hours = 600 – (141+ 80,5 + 14,5 + 35)

= 329 Jam/bulan

$$PA = \frac{329+236}{329+35+236} \text{ x } 100\ \%$$

= 94 %

$$MA = \frac{329}{329+35} \text{ x } 100\ \%$$

= 90,4 %

EU $= \frac{329}{329+35+236}$ x 100%

= 54,8 %

UA $= \frac{329}{329+236}$ x 100 %

= 58,2 %

2. Excavator Doosan 800

Diketahui :

Waktu tersedia = 20 Jam/hari = 600 Jam/bulan

S1 = 295 menit/hari

$= \frac{(15\ menit\ x\ 4\ kali\ perbulan)+(280\ menit/hari\ x\ 30\ hari/bulan)}{60\ menit}$

= 141 jam/bulan

S2 = 144 menit/hari = 72 Jam/bulan

S3 = 24 menit/hari = 12 Jam/bulan

Standby = S1 + S2 + S3 = 225 Jam/bulan

Repair = 20 Jam/bulan

Working Hours = 600 – (141 + 72 + 12 + 20)

= 355 Jam/bulan

PA $= \frac{355+225}{355+20+225}$ x 100 %

= 96,7 %

MA $= \frac{355}{355+20}$ x 100 %

= 94,7 %

EU $= \frac{355}{355+20+225}$ x 100%

= 59,2 %

UA $= \frac{355}{355+225}$ x 100 %

= 61,2 %