

LAMPIRAN B

Rugi-rugi daya transmisi pada kondisi Exsisting

- Rugi-rugi daya transmisi New Suralaya ke Suralaya

$$\text{Jarak} = 1,5 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 666,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (666,2 \text{ A})^2 \cdot (1,5 \text{ km} \times 0,024 \Omega/\text{km})$$

$$47932,824 \text{ W} = 47,93 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke New Balaraja sirkit 1

$$\text{Jarak} = 64,3 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 1253,4 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (1253,4 \text{ A})^2 \cdot (64,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$8394433,2 \text{ W} = 8394,4 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke New Balaraja sirkit 2

$$\text{Jarak} = 64,3 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 1253,4 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (1253,4 \text{ A})^2 \cdot (64,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$8394433,2 \text{ W} = 8394,4 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke Cilegon sirkit 1

$$\text{Jarak} = 12,9 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 626,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (626,3 \text{ A})^2 \cdot (12,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$364323,37 \text{ W} = 364,32 \text{ kW}$$

- Rugi-rugi daya transmisi Suralaya ke Cilegon sirkit 2

$$\text{Jarak} = 12,9 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 626,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (626,3 \text{ A})^2 \cdot (12,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$364323,37 \text{ W} = 364,32 \text{ kW}$$

- Rugi-rugi daya transmisi Cilegon ke Cibinong

$$\text{Jarak} = 752,8 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 752,8 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (752,8 \text{ A})^2 \cdot (130,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$5324786,9 \text{ W} = 5324,7 \text{ kW}$$

- Rugi-rugi daya transmisi Bekasi ke Cawang

$$\text{Jarak} = 16,8 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 855,5 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (855,5 \text{ A})^2 \cdot (130,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$1021763,4 \text{ W} = 1021,7 \text{ kW}$$

- Rugi-rugi daya transmisi Bekasi ke Cibinong

$$\text{Jarak} = 37,9 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 740,7 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (740,7 \text{ A})^2 \cdot (16,8 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$1727925,1 \text{ W} = 1727,9 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke Kembangan sirkit 1

$$\text{Jarak} = 30,1 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 206,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (206,2 \text{ A})^2 \cdot (30,1 \text{ km} \times 0,024 \Omega/\text{km})$$

$$92145,963 \text{ W} = 92,1 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke Kembangan sirkit 2

$$\text{Jarak} = 30,1 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 206,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (206,2 \text{ A})^2 \cdot (30,1 \text{ km} \times 0,024 \Omega/\text{km})$$

$$92145,963 \text{ W} = 92,1 \text{ kW}$$

- Rugi-rugi daya transmisi Cawang ke Muara Tawar

$$\text{Jarak} = 43,8 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 1473,6 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (1473,6 \text{ A})^2 \cdot (43,8 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$7903771,2 \text{ W} = 7903,7 \text{ kW}$$

- Rugi-rugi daya transmisi New Balaraja ke Gandul sirkit 1

$$\text{Jarak} = 46,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 689,6 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (689,6 \text{ A})^2 \cdot (46,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$1825734 \text{ W} = 1825,7 \text{ kW}$$

- Rugi-rugi daya transmisi New Balaraja ke Gandul sirkit 2

$$\text{Jarak} = 46,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 689,6 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (689,6 \text{ A})^2 \cdot (46,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$1825734 \text{ W} = 1825,7 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke depok sirkit 1

$$\text{Jarak} = 7,5 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 67,9 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (67,9 \text{ A})^2 \cdot (7,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$2873,438 \text{ W} = 2,8 \text{ kW}$$

- Rugi-rugi daya transmisi Gandul ke depok sirkit 2

$$\text{Jarak} = 7,5 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 67,9 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (67,9 \text{ A})^2 \cdot (7,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$2873,438 \text{ W} = 2,8 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Cibinong sirkit 1

$$\text{Jarak} = 14 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 442,4 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (442,4 \text{ A})^2 \cdot (14 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$227698,04 \text{ W} = 227,6 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Cibinong sirkit 2

$$\text{Jarak} = 14 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 442,4 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (442,4 \text{ A})^2 \cdot (14 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$227698,04 \text{ W} = 227,6 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Tasik sirkit 1

$$\text{Jarak} = 275,6 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 93,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (93,2 \text{ A})^2 \cdot (275,6 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$198935,4 \text{ W} = 198,9 \text{ kW}$$

- Rugi-rugi daya transmisi depok ke Tasik sirkit 2

$$\text{Jarak} = 275,6 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 93,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (93,2 \text{ A})^2 \cdot (275,6 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$198935,4 \text{ W} = 198,9 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Muara Tawar

$$\text{Jarak} = 50,5 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$Arus = 1007,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (1007,3 \text{ A})^2 \cdot (50,5 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$4258043,3 \text{ W} = 4258,0 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Saguling sirkit 1

$$\text{Jarak} = 83,8 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 344,8 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (344,8 \text{ A})^2 \cdot (83,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$717316,84 \text{ W} = 717,3 \text{ kW}$$

- Rugi-rugi daya transmisi Cibinong ke Saguling sirkit 2

$$\text{Jarak} = 83,8 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 344,8 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (344,8 \text{ A})^2 \cdot (83,8 \text{ km} \times 0,024 \Omega/\text{km})$$

$$717316,84 \text{ W} = 717,3 \text{ kW}$$

- Rugi-rugi daya transmisi Saguling ke Cirata sirkit 1

$$\text{Jarak} = 25,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$Arus = 274,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (274,1 \text{ A})^2 \cdot (25,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$157332,93 \text{ W} = 157,3 \text{ kW}$$

- Rugi-rugi daya transmisi Saguling ke Cirata sirkit 2

$$\text{Jarak} = 25,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$Arus = 274,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (274,1 \text{ A})^2 \cdot (25,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$157332,93 \text{ W} = 157,3 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke Saguling sirkit 1

$$Jarak = 37,6 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 545,5 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (545,5 \text{ A})^2 \cdot (37,6 \text{ km} \times 0,024 \Omega/\text{km})$$

$$805582,18 \text{ W} = 805,5 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke Saguling sirkit 2

$$Jarak = 37,6 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 545,5 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (545,5 \text{ A})^2 \cdot (37,6 \text{ km} \times 0,024 \Omega/\text{km})$$

$$805582,18 \text{ W} = 805,5 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke MDRCN

$$Jarak = 179,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 194,9 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (194,9 \text{ A})^2 \cdot (179,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$490657,69 \text{ W} = 490,6 \text{ kW}$$

- Rugi-rugi daya transmisi BDSLN ke NEW UBRGN

$$Jarak = 179,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 151,1 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (151,1 \text{ A})^2 \cdot (179,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$294906,17 \text{ W} = 294,9 \text{ kW}$$

- Rugi-rugi daya transmisi NEW UBRGN ke MDRCN

$$\text{Jarak} = 86,64 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 91,2 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (91,2 \text{ A})^2 \cdot (86,64 \text{ km} \times 0,024 \Omega/\text{km})$$

$$51884,856 \text{ W} = 51,8 \text{ kW}$$

- Rugi-rugi daya transmisi MDRCN ke UNGRN sirkit 1

$$\text{Jarak} = 230 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 170,5 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (170,5 \text{ A})^2 \cdot (230 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$555619,69 \text{ W} = 555,6 \text{ kW}$$

- Rugi-rugi daya transmisi MDRCN ke UNGRN sirkit 2

$$\text{Jarak} = 230 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 170,5 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (170,5 \text{ A})^2 \cdot (230 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$555619,69 \text{ W} = 555,6 \text{ kW}$$

- Rugi-rugi daya transmisi Tasik ke Pedan sirkit 1

$$\text{Jarak} = 304 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 44,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (44,3 \text{ A})^2 \cdot (304 \text{ km} \times 0,024 \Omega/\text{km})$$

$$42954,981 \text{ W} = 42,9 \text{ kW}$$

- Rugi-rugi daya transmisi Tasik ke Pedan sirkit 2

$$\text{Jarak} = 304 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 44,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (44,3 \text{ A})^2 \cdot (304 \text{ km} \times 0,024 \Omega/\text{km})$$

$$42954,981 \text{ W} = 42,9 \text{ kW}$$

- Rugi-rugi daya transmisi Cibatú ke Cirata sirkit 1

$$\text{Jarak} = 46 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 207 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (207 \text{ A})^2 \cdot (46 \text{ km} \times 0,024 \Omega/\text{km})$$

$$141915,89 \text{ W} = 141,9 \text{ kW}$$

- Rugi-rugi daya transmisi Cibatú ke Cirata sirkit 2

$$\text{Jarak} = 46 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$Arus = 207 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (207 \text{ A})^2 \cdot (46 \text{ km} \times 0,024 \Omega/\text{km})$$

$$141915,89 \text{ W} = 141,9 \text{ kW}$$

- Rugi-rugi daya transmisi MTWAR ke Cibatú sirkit 1

$$\text{Jarak} = 48,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$Arus = 516 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (516 \text{ A})^2 \cdot (48,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$1066467,1 \text{ W} = 1066,4 \text{ kW}$$

- Rugi-rugi daya transmisi MTWAR ke Cibatuan sirkit 2

$$\text{Jarak} = 48,2 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 516 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (516 \text{ A})^2 \cdot (48,2 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$1066467,1 \text{ W} = 1066,4 \text{ kW}$$

- Rugi-rugi daya transmisi Tanjung Jati ke Ungaran sirkit 1

$$\text{Jarak} = 134,8 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 802,4 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (802,4 \text{ A})^2 \cdot (134,8 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$7212282,9 \text{ W} = 7212,2 \text{ kW}$$

- Rugi-rugi daya transmisi Tanjung Jati ke Ungaran sirkit 2

$$\text{Jarak} = 134,8 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 802,4 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (802,4 \text{ A})^2 \cdot (134,8 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$7212282,9 \text{ W} = 7212,2 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke Pedan

$$\text{Jarak} = 75,3 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 417,6 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (417,6 \text{ A})^2 \cdot (75,3 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$1091231,7 \text{ W} = 1091,2 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke Krian

$$\text{Jarak} = 267,11 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 96,7 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (96,7 \text{ A})^2 \cdot (75,3 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$207560,22 \text{ W} = 207,5 \text{ kW}$$

- Rugi-rugi daya transmisi Ungaran ke NBANG

$$\text{Jarak} = 207,7 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 18 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (18 \text{ A})^2 \cdot (19,8 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$5592,1979 \text{ W} = 5,5 \text{ kW}$$

- Rugi-rugi daya transmisi Gresik ke Krian sirkit 1

$$\text{Jarak} = 23,94 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 479,7 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (479,7 \text{ A})^2 \cdot (21,3 \text{ km} \times 0,0277 \text{ } \Omega/\text{km})$$

$$457788,21 \text{ W} = 457,7 \text{ kW}$$

- Rugi-rugi daya transmisi Gresik ke Krian sirkit 2

$$\text{Jarak} = 23,94 \text{ km}$$

$$Z = 0,0277 + j0,275 \text{ } \Omega/\text{km}$$

$$\text{Arus} = 479,7 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (479,7 \text{ A})^2 \cdot (21,3 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$457788,21 \text{ W} = 457,7 \text{ kW}$$

- Rugi-rugi daya transmisi Ngimbang ke Krian

$$\text{Jarak} = 47,6 \text{ km}$$

$$Z = 0,0277 + j0,275 \Omega/\text{km}$$

$$\text{Arus} = 585,8 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (585,8 \text{ A})^2 \cdot (47,6 \text{ km} \times 0,0277 \Omega/\text{km})$$

$$1357396,5 \text{ W} = 1357,3 \text{ kW}$$

- Rugi-rugi daya transmisi Krian ke Grati sirkit 1

$$\text{Jarak} = 92,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 488,4 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (488,4 \text{ A})^2 \cdot (92,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$1586922,7 \text{ W} = 1586,9 \text{ kW}$$

- Rugi-rugi daya transmisi Krian ke Grati sirkit 2

$$\text{Jarak} = 92,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 488,4 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (488,4 \text{ A})^2 \cdot (92,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$1586922,7 \text{ W} = 1586,9 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Grati sirkit 1

$$\text{Jarak} = 87,9 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 625,1 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(625,1 \text{ A})^2.(87,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$2472978,7 \text{ W} = 2472,9 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Grati sirkit 2

$$\text{Jarak} = 87,9 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 625,1 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(625,1 \text{ A})^2.(87,9 \text{ km} \times 0,024 \Omega/\text{km})$$

$$2472978,7 \text{ W} = 2472,9 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Kediri sirkit 1

$$\text{Jarak} = 209,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 577,2 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(577,2\text{A})^2.(209,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$5022984,3 \text{ W} = 5022,9 \text{ kW}$$

- Rugi-rugi daya transmisi Paiton ke Kediri sirkit 2

$$\text{Jarak} = 209,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 577,2 \text{ A}$$

$$P = 3.I^2.R$$

$$3.(577,2\text{A})^2.(209,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$5022984,3 \text{ W} = 5022,9 \text{ kW}$$

- Rugi-rugi daya transmisi Kediri ke Pedan sirkit 1

$$\text{Jarak} = 202,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 180,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (180,3 \text{ A})^2 \cdot (202,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$473733,89 \text{ W} = 473,3 \text{ kW}$$

- Rugi-rugi daya transmisi Kediri ke Pedan sirkit 2

$$\text{Jarak} = 202,4 \text{ km}$$

$$Z = 0,024 + j0,274 \Omega/\text{km}$$

$$\text{Arus} = 180,3 \text{ A}$$

$$P = 3 \cdot I^2 \cdot R$$

$$3 \cdot (180,3 \text{ A})^2 \cdot (202,4 \text{ km} \times 0,024 \Omega/\text{km})$$

$$473733,89 \text{ W} = 473,3 \text{ kW}$$