

Lampiran 1

Matriks Jarak Antar TPS/TPA (meter)

	A	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20	T21	T22	T23	T24	T25	D1	D2	X
A	0	1800	2100	2500	2100	2700	3000	2000	500	2900	2600	2800	1900	2100	1000	850	900	800	1500	900	240	850	2300	2200	2500	3000	1900	150	15200
T1	2700	0	270	1200	1900	1400	1800	1900	2300	2000	1400	1500	600	1000	2800	2700	2700	2700	4400	2900	2500	2400	3500	1000	1400	1700	240	2800	15100
T2	2500	150	0	1100	1700	1200	1600	1600	2000	1500	1200	1400	500	700	2500	2400	2500	2400	4100	2600	2200	2200	2950	750	1100	1600	120	2500	14800
T3	1300	1200	1300	0	500	800	1100	500	850	1300	1300	1400	400	400	1400	1300	1300	1300	2400	1500	1100	1100	450	300	700	1500	1400	1400	13700
T4	1500	2100	2100	1300	0	450	1000	100	1400	1200	1200	1300	1600	1200	2400	2300	2300	1900	2500	1700	1600	1200	1600	1300	1900	2200	1400	13200	
T5	1400	1300	1500	200	450	0	900	600	1000	1100	1300	1200	600	600	1500	1400	1400	2300	1600	1300	1200	650	500	900	1700	1600	1500	13600	
T6	1900	1700	1700	950	950	1000	0	1100	1500	800	800	900	1200	850	2000	1900	1900	1900	2800	2100	2000	2000	800	1300	900	1500	1800	2000	14100
T7	800	1700	2000	2400	2000	2600	2900	0	350	3100	2600	2700	1800	2000	900	800	850	750	2300	1000	600	550	2300	2100	2500	2900	1900	900	14900
T8	500	1400	1700	750	1200	2300	2600	1600	0	2500	2200	2400	1500	1700	550	450	500	400	2000	600	270	450	1900	1800	2100	2600	1500	600	15000
T9	2000	1600	1500	700	1200	850	1200	1200	1600	0	350	230	1000	650	2100	2000	2100	2000	3100	2200	1800	1800	350	1100	700	210	1600	2100	14400
T10	2000	1500	1500	700	1200	800	1100	1200	1500	350	0	140	950	650	2100	2000	2000	2000	3100	2100	1800	1700	160	1000	700	450	1600	2100	14400
T11	2100	2000	1600	850	1400	950	1300	1300	1700	220	140	0	1100	750	2200	2100	2200	2100	3200	2300	1900	1900	290	1200	850	290	1700	2200	14500
T12	1800	950	850	450	1000	800	1100	1000	1300	1300	1300	1400	0	240	1800	1800	1800	1700	2800	1900	1500	1500	500	300	700	1500	1100	1900	14100
T13	1700	1400	1400	400	900	850	1200	900	1300	1400	1400	1500	300	0	1800	1700	1700	1700	2800	1900	1500	1400	550	400	750	1600	1400	1800	14100
T14	1900	850	1100	1500	1200	1700	2000	1100	1400	1900	1700	1800	950	1100	0	1900	1900	1900	3000	2000	1700	1600	1400	1200	1600	2000	1000	2000	14300
T15	270	1700	2000	2400	2000	2600	2900	1900	550	2800	2500	2700	1800	2000	850	0	800	850	1700	150	290	900	2200	2100	2400	2900	1800	350	14700
T16	900	950	1200	1600	1300	1800	2100	1200	500	2000	1800	1900	1000	1300	110	700	0	400	2400	450	650	240	1500	1300	1700	2100	1100	1000	15400
T17	800	1000	1300	1700	1300	1900	2200	1200	400	2100	1800	2000	1100	1300	160	650	400	0	2300	400	600	170	1500	1400	1800	2200	1100	950	15300
T18	1500	3200	3200	4000	3600	3100	3700	3200	2000	3800	3800	4000	3900	3900	2400	2300	2300	220	0	2400	1700	2300	3800	3600	4000	4400	4000	1400	14000
T19	400	1400	1600	2100	1700	2200	2600	1600	500	2500	2700	2800	1500	1700	750	150	450	400	1900	0	450	1900	1800	1800	2100	2600	1500	500	14700
T20	240	1600	1800	2200	1900	2400	2700	1800	270	2700	2400	2500	1700	1900	700	650	650	600	1700	650	0	600	2100	1900	2300	2700	1700	300	15200
T21	850	1200	1400	1900	1500	2000	2300	1400	450	2300	2000	2100	1300	1500	300	650	240	170	2300	400	600	0	1700	1600	1900	2300	1300	950	16000
T22	1900	1200	1100	500	1000	700	1000	1000	1400	400	160	290	650	300	1900	1800	1900	1800	2900	2000	1600	1600	0	210	600	900	1300	1900	16800
T23	1700	1500	1800	400	850	400	800	850	1200	1000	1000	1100	800	1000	1800	1700	1700	1600	2800	1800	1500	1400	1000	0	350	1700	1700	1800	14100
T24	1500	1300	1600	900	500	99	550	700	1000	750	750	850	1400	800	1600	1500	1500	1400	2400	1600	1300	1200	750	1200	0	1400	1500	1600	13700
T25	2300	1800	1800	1000	1500	1100	1400	1500	1900	210	450	300	1300	950	2400	2300	2300	2300	3400	2500	2100	2000	700	1000	0	1900	2400	14700	
D1	2300	500	450	950	1500	1100	1400	1500	1900	1400	1100	1200	350	550	2400	2300	2400	2300	3400	2500	2100	2000	700	1000	0	1900	2400	14700	
D2	150	1900	2100	2600	2200	2700	3100	2100	600	3000	2700	2900	2000	2200	1000	950	1000	900	1400	1100	300	950	2400	2300	2600	3100	2000	0	14700
X	13800	15900	16200	14600	16200	13600	14200	16000	14100	14500	14400	14600	14500	15100	15100	15000	15000	15100	13500	14900	14200	14900	14500	16300	16700	15100	14600	13700	0

Dengan,

A	DLH Kota Yogyakarta	T5	TPS Atmosukarto	T10	Jl. I Nyoman Oka	T15	TPS Mungkur	T20	TPS Kusbini II	T25	Jl. Merbabu (RRI Jogja)
T1	TPS Herman Yohanes	T6	Jl. Krasak Barat	T11	Jl. Paimura	T16	Belkang Duta Foto	T21	Jl. Balapan	D1	Depo Sagan
T2	Perkunan Sagan	T7	Jl. Kusbini	T12	TPS Johar Muhadi	T17	TPS SD Kliren	T22	TPS SMA 3	D2	TPS Pengok (Rel Kereta)
T3	TPS Wardani	T8	TPS Kusbini I	T13	TPS Hadi Darsono	T18	TPS Kowihan	T23	TPS Telkom	X	TPA Pyungan
T4	Barat Jembatan Layang	T9	Jl. Ungaran	T14	TPS Unip Sumoharjo	T19	TPS Trbrata	T24	Komplek Pamungkas		

Lampiran 2

Matriks Waktu Antar TPS/TPA (menit)

	A	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20	T21	T22	T23	T24	T25	D1	D2	X	
A	0	5	7	6	5	7	9	6	2	10	8	10	6	7	4	3	3	3	7	3	1	3	7	7	8	11	6	1	34	
T1	8	0	1	4	5	4	5	6	7	6	4	6	2	3	8	7	8	8	13	8	5	7	10	3	4	7	1	10	39	
T2	7	1	0	3	5	4	5	5	6	5	4	5	2	2	7	7	7	7	13	7	6	7	3	3	4	6	1	9	36	
T3	4	4	4	0	2	2	3	2	3	3	3	5	1	2	4	3	4	3	9	4	3	3	2	1	2	6	5	5	33	
T4	4	5	5	2	0	1	2	3	4	3	3	4	4	4	7	7	7	7	6	7	4	5	3	4	3	6	6	4	32	
T5	5	4	5	1	2	0	3	2	3	3	5	4	3	3	5	4	4	4	9	5	4	4	3	2	3	7	6	5	34	
T6	7	5	5	3	4	4	0	5	5	3	3	3	4	4	9	7	8	8	12	8	6	6	3	4	3	6	6	8	36	
T7	2	5	6	6	5	6	7	0	1	8	3	10	7	8	3	2	2	2	7	2	1	1	6	6	7	10	7	2	34	
T8	2	5	6	6	5	6	7	5	0	2	7	10	6	7	2	1	2	2	7	2	1	2	6	5	6	10	6	2	32	
T9	5	5	5	2	4	2	3	4	4	0	1	1	3	3	7	5	6	6	10	6	5	5	2	3	2	1	5	7	34	
T10	5	4	4	2	3	2	3	3	4	1	0	1	3	3	6	5	5	6	10	6	5	5	1	3	2	2	5	7	34	
T11	7	6	5	3	4	3	3	4	4	1	1	0	4	3	6	5	6	5	9	6	6	6	1	4	3	1	6	7	41	
T12	5	4	4	1	3	2	3	3	3	4	3	4	0	1	5	4	5	4	8	5	5	5	2	1	2	6	4	6	40	
T13	5	4	4	1	2	3	4	2	3	4	4	4	1	0	4	4	4	4	7	5	4	4	2	2	3	7	5	6	40	
T14	5	3	4	4	3	4	5	2	3	5	4	5	2	3	0	4	4	4	8	4	5	5	5	4	6	8	4	5	40	
T15	1	5	6	6	5	6	7	4	2	8	7	7	5	5	2	0	2	2	5	1	1	3	8	8	9	10	7	1	36	
T16	4	3	4	4	4	5	6	3	2	6	5	6	3	4	1	2	0	2	8	2	3	2	6	5	6	8	5	3	39	
T17	3	3	5	5	4	5	6	3	2	6	6	6	3	4	1	2	2	0	7	2	2	1	6	5	6	8	5	3	39	
T18	6	11	12	12	10	11	10	7	12	11	12	12	12	12	9	8	8	0	9	0	9	6	9	13	13	14	17	13	6	31
T19	2	7	9	9	7	10	11	6	2	11	12	13	7	8	3	1	2	2	7	0	2	2	7	7	7	10	6	2	42	
T20	1	4	5	5	4	6	8	5	1	8	8	8	5	6	2	2	2	2	5	2	0	2	6	6	6	11	6	1	34	
T21	3	4	5	4	4	6	7	4	2	8	7	8	4	5	1	3	1	1	9	3	2	0	6	5	6	9	6	3	35	
T22	5	3	3	2	3	2	4	3	3	2	1	1	3	2	5	5	5	9	9	6	4	5	0	1	2	3	4	6	38	
T23	4	4	5	1	2	1	3	2	3	4	3	6	3	6	4	4	4	4	9	5	4	4	4	0	1	5	6	5	39	
T24	5	4	4	2	1	1	2	2	3	3	3	5	5	5	5	5	4	4	8	5	4	4	3	5	0	5	6	5	38	
T25	7	6	6	3	5	3	4	4	5	1	2	1	4	3	7	6	7	6	11	7	6	6	2	4	3	0	6	7	39	
D1	8	2	2	3	6	4	5	6	6	5	4	4	1	2	8	8	8	8	12	9	8	3	2	3	6	0	7	39		
D2	1	6	8	8	7	8	9	6	2	9	9	9	6	7	3	3	3	3	5	3	1	3	8	7	8	11	7	0	35	
X	37	32	33	33	31	36	37	39	39	40	40	41	41	41	39	40	40	41	36	40	37	39	40	39	40	41	39	35	0	

Dengan,

A	DLH Kota Yogyakarta	T5	TPS Atmosukarto	T10	Jl. I Nyoman Oka	T15	TPS Munggar	T20	TPS Kusbini II	T25	Jl. Merbabu (RRI Jogja)
T1	TPS Herman Yohanes	T6	Jl. Krasak Barat	T11	Jl. Patimura	T16	Belakang Duta Fort	T21	Jl. Balapan	D1	Depo Sagan
T2	Perikanan Sagan	T7	Jl. Kusbini	T12	TPS Johar Muhadi	T17	TPS SD Kilren	T22	TPS SMA 3	D2	TPS Pengok (Rel Kereta)
T3	TPS Wardani	T8	TPS Kusbini I	T13	TPS Hadi Darsono	T18	TPS Kowilhan	T23	TPS Telkom	X	TPA Pyungan
T4	Barat Jembatan Layang	T9	Jl. Ungaran	T14	TPS Urip Sumoharjo	T19	TPS Tribrata	T24	Komplek Panungkas		