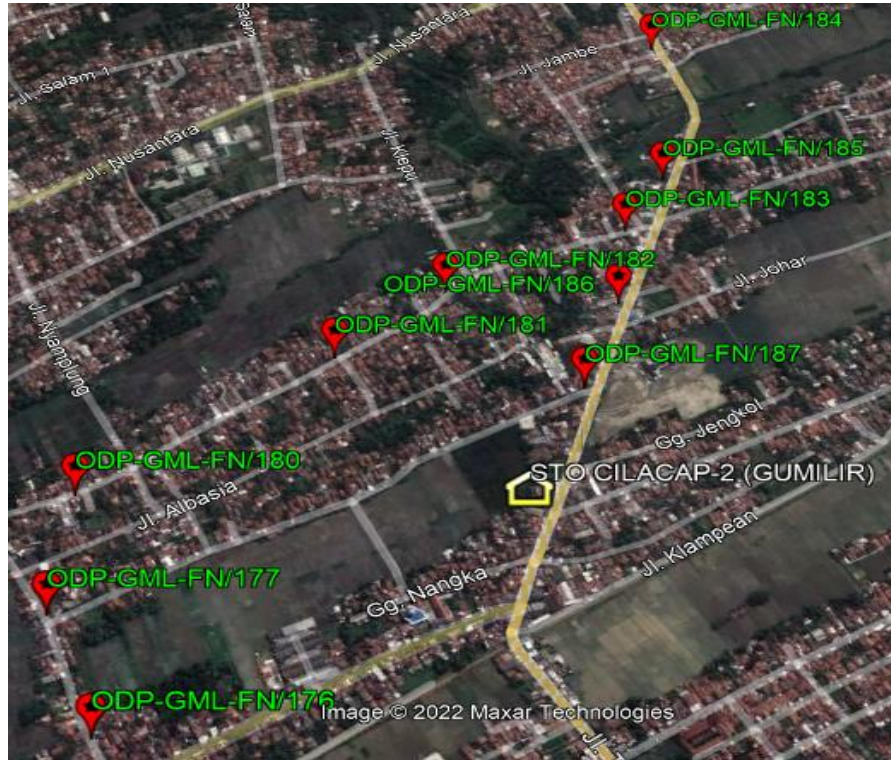


LAMPIRAN
PROSES PENGOLAHAN DATA MELALUI GOOGLE MAPS

A. Peta STO Dan ODP



B. Data koordinat STO dan ODP

No	ODP wilayah GML	kode ODP	KOORDINAT
1	STO CILACAP-2 (GUMILIR)	Z_1	7°40'45.07"S 109° 2'18.85"E
2	ODP-GML-FN/176	ODP A ₁	7°40'58.50"S 109° 1'58.99"E
3	ODP-GML-FN/177	ODP B ₁	7°40'51.47"S 109° 1'56.15"E
4	ODP-GML-FN/180	ODP C ₁	7°40'44.17"S 109° 1'56.70"E
5	ODP-GML-FN/181	ODP D ₁	7°40'34.99"S 109° 2'8.96"E
6	ODP-GML-FN/182	ODP E ₁	7°40'30.27"S 109° 2'14.57"E
7	ODP-GML-FN/183	ODP F ₁	7°40'25.69"S 109° 2'24.12"E
8	ODP-GML-FN/184	ODP G ₁	7°40'10.75"S 109° 2'26.12"E
9	ODP-GML-FN/185	ODP H ₁	7°40'21.65"S 109° 2'26.30"E
10	ODP-GML-FN/186	ODP I ₁	7°40'31.11"S 109° 2'23.59"E
11	ODP-GML-FN/187	ODP J ₁	7°40'37.06"S 109° 2'21.69"E

C. Data jarak ODP dan ODC

No	Kode ODP	Jarak antar ODP dan STO (m)
1	ODP V ₁	900 m
2	ODP V ₂	1100 m
3	ODP V ₃	1500 m

4	ODP V_4	1300 m
5	ODP V_5	1000 m
6	ODP V_6	700 m
7	ODP V_7	1100 m
8	ODP V_8	750 m
9	ODP V_9	500 m
10	ODP V_{10}	280 m

D. Data nama vertex dan edge STO, ODP

vertex	Kode ODP	Edge
z_1	STO CILACAP-2 (GUMILIR)	$(z_1, v_1), (z_1, v_2), (z_1, v_3), (z_1, v_4), (z_1, v_5),$ $(z_1, v_6), (z_1, v_7), (z_1, v_8), (z_1, v_9), (z_1, v_{10})$.
v_1	ODP V_1	(z_1, v_1)
v_2	ODP V_2	(z_1, v_2)
v_3	ODP V_3	(z_1, v_3)
v_4	ODP V_4	(z_1, v_4)
v_5	ODP V_5	(z_1, v_5)
v_6	ODP V_6	(z_1, v_6)
v_7	ODP V_7	(z_1, v_7)
v_8	ODP V_8	(z_1, v_8)
v_9	ODP V_9	(z_1, v_9)
v_{10}	ODP V_{10}	(z_1, v_{10})

E. Data Jarak Antar ODP (vertex)

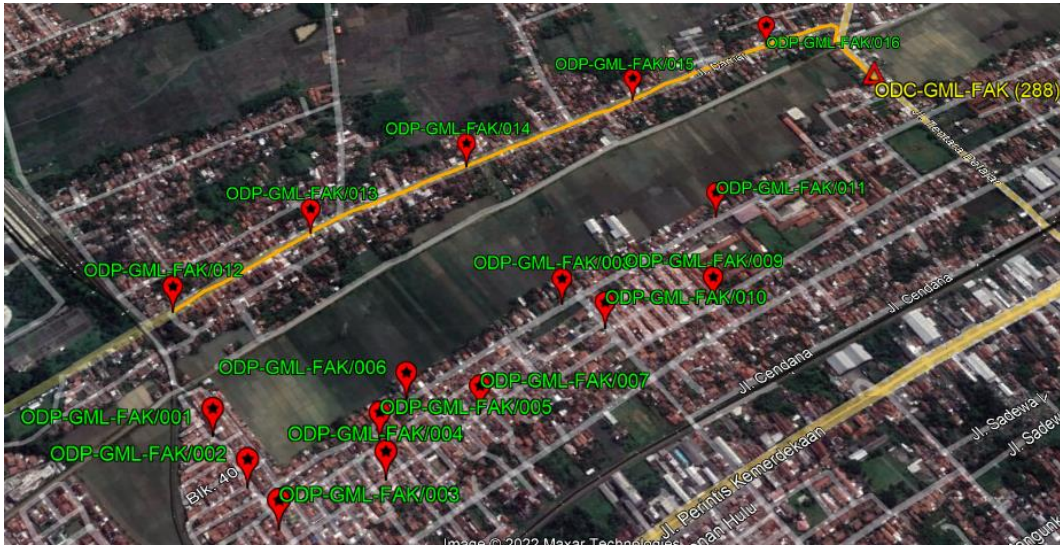
Vertex 1	Vertex 2	Edge	Jarak (m)
v_1	v_2	(v_1, v_2)	230 m
v_1	v_3	(v_1, v_3)	600 m
v_2	v_3	(v_2, v_3)	350 m
v_1	v_4	(v_1, v_4)	1000 m
v_2	v_4	(v_2, v_4)	800 m
v_3	v_4	(v_3, v_4)	450 m
v_1	v_5	(v_1, v_5)	1300 m
v_2	v_5	(v_2, v_5)	1000 m
v_3	v_5	(v_3, v_5)	700 m
v_4	v_5	(v_4, v_5)	230 m
v_1	v_6	(v_1, v_6)	1600 m
v_2	v_6	(v_2, v_6)	1400 m
v_3	v_6	(v_3, v_6)	1000 m
v_4	v_6	(v_4, v_6)	550 m
v_5	v_6	(v_5, v_6)	350 m
v_1	v_7	(v_1, v_7)	2000 m
v_2	v_7	(v_2, v_7)	2300 m
v_3	v_7	(v_3, v_7)	1600 m
v_4	v_7	(v_4, v_7)	1100 m
v_5	v_7	(v_5, v_7)	850 m
v_6	v_7	(v_6, v_7)	550 m
v_1	v_8	(v_1, v_8)	1700 m
v_2	v_8	(v_2, v_8)	1400 m

v_3	v_8	(v_3, v_8)	1200 m
v_4	v_8	(v_4, v_8)	700 m
v_5	v_8	(v_5, v_8)	500 m
v_6	v_8	(v_6, v_8)	170 m
v_7	v_8	(v_7, v_8)	350 m
v_1	v_9	(v_1, v_9)	1400 m
v_2	v_9	(v_2, v_9)	1200 m
v_3	v_9	(v_3, v_9)	1300 m
v_4	v_9	(v_4, v_9)	800 m
v_5	v_9	(v_5, v_9)	600 m
v_6	v_9	(v_6, v_9)	250 m
v_7	v_9	(v_7, v_9)	650 m
v_8	v_9	(v_8, v_9)	300 m
v_1	v_{10}	(v_1, v_{10})	1200 m
v_2	v_{10}	(v_2, v_{10})	900 m
v_3	v_{10}	(v_3, v_{10})	1500 m
v_4	v_{10}	(v_4, v_{10})	1000 m
v_5	v_{10}	(v_5, v_{10})	800 m
v_6	v_{10}	(v_6, v_{10})	450 m
v_7	v_{10}	(v_7, v_{10})	850 m
v_8	v_{10}	(v_8, v_{10})	500 m
v_9	v_{10}	(v_9, v_{10})	270 m

F. Matriks ODP wilayah Gumilir.

<i>vertex</i>	z_1	v_1	v_2	v_3	v_4	v_5	v_6	v_7	v_8	v_9	v_{10}
z_1	0	900	1100	1500	1300	1000	700	1100	750	500	280
v_1	900	0	230	600	1000	1300	1600	2000	1700	1400	1200
v_2	1100	230	0	350	800	1000	1400	2300	1400	1200	900
v_3	1500	600	350	0	450	700	1000	1600	1200	1300	1500
v_4	1300	1000	800	450	0	230	550	1100	700	800	1000
v_5	1000	1300	1000	700	230	0	350	850	500	600	800
v_6	700	1600	1400	1000	550	350	0	550	170	250	450
v_7	1100	2000	2300	1600	1100	850	550	0	350	650	850
v_8	750	1700	1400	1200	700	500	170	350	0	300	500
v_9	500	1400	1200	1300	800	600	250	650	300	0	270
v_{10}	280	1200	900	1500	1000	800	450	850	500	270	0

G. Peta ODC dan ODP



H. Data Koordinat ODC dan ODP

NO	ODP wilayah GML 2	Kode ODP	KOORDINAT
1	ODC-GML-FAK (288)	Z ₂	7°40'56.88"S 109° 2'19.77"E
2	ODP-GML-FAK/001	ODP V ₁₁	7°41'25.38"S 109° 1'42.93"E
3	ODP-GML-FAK/002	ODP V ₁₂	7°41'28.30"S 109° 1'45.33"E
4	ODP-GML-FAK/003	ODP V ₁₃	7°41'30.53"S 109° 1'47.32"E
5	ODP-GML-FAK/004	ODP V ₁₄	7°41'27.51"S 109° 1'52.18"E
6	ODP-GML-FAK/005	ODP V ₁₅	7°41'25.20"S 109° 1'51.56"E
7	ODP-GML-FAK/006	ODP V ₁₆	7°41'22.64"S 109° 1'52.61"E
8	ODP-GML-FAK/007	ODP V ₁₇	7°41'23.31"S 109° 1'56.56"E
9	ODP-GML-FAK/008	ODP V ₁₈	7°41'15.85"S 109° 2'0.49"E
10	ODP-GML-FAK/009	ODP V ₁₉	7°41'15.36"S 109° 2'8.91"E
11	ODP-GML-FAK/010	ODP V ₂₀	7°41'17.45"S 109° 2'2.94"E
12	ODP-GML-FAK/011	ODP V ₂₁	7°41'8.90"S 109° 2'9.24"E
13	ODP-GML-FAK/012	ODP V ₂₂	7°41'17.43"S 109° 1'38.95"E
14	ODP-GML-FAK/013	ODP V ₂₃	7°41'11.29"S 109° 1'45.60"E
15	ODP-GML-FAK/014	ODP V ₂₄	7°41'5.48"S 109° 1'54.17"E
16	ODP-GML-FAK/015	ODP V ₂₅	7°40'59.15"S 109° 2'4.20"E
17	ODP-GML-FAK/016	ODP V ₂₆	7°40'53.53"S 109° 2'12.98"E

I. Data Jarak ODC dengan ODP

NO	Kode ODP	Data Jarak ODC dengan ODP
1	ODP V ₁₁	1700 m
2	ODP V ₁₂	1600 m
3	ODP V ₁₃	1600 m
4	ODP V ₁₄	1500 m
5	ODP V ₁₅	1400 m
6	ODP V ₁₆	1300 m
7	ODP V ₁₇	1400 m

8	ODP V_{18}	1000 m
9	ODP V_{19}	850 m
10	ODP V_{20}	1000 m
11	ODP V_{21}	600 m
12	ODP V_{22}	1700 m
13	ODP V_{23}	1400 m
14	ODP V_{24}	1100 m
15	ODP V_{25}	700 m
16	ODP V_{26}	350 m

J. Data nama vertex dan edge STO

vertex	Kode ODP	Edge
z_2	ODC-GML (GUMILIR)	$(z_2, v_{11}), (z_2, v_{12}), (z_2, v_{13}), (z_2, v_{14}),$ $(z_2, v_{15}), (z_2, v_{16}), (z_2, v_{17}), (z_2, v_{18}),$ $(z_2, v_{19}), (z_2, v_{20}), (z_2, v_{21}), (z_2, v_{22}),$ $(z_2, v_{23}), (z_2, v_{24}), (z_2, v_{25}), (z_2, v_{26})$
v_{11}	ODP V_{11}	(z_2, v_{11})
v_{12}	ODP V_{12}	(z_2, v_{12})
v_{13}	ODP V_{13}	(z_2, v_{13})
v_{14}	ODP V_{14}	(z_2, v_{14})
v_{15}	ODP V_{15}	$(z_2, v_{15}),$
v_{16}	ODP V_{16}	(z_2, v_{16})
v_{17}	ODP V_{17}	(z_2, v_{17})
v_{18}	ODP V_{18}	(z_2, v_{18})
v_{19}	ODP V_{19}	(z_2, v_{19})
v_{20}	ODP V_{20}	(z_2, v_{20})
v_{21}	ODP V_{21}	(z_2, v_{21})
v_{22}	ODP V_{22}	(z_2, v_{22})
v_{23}	ODP V_{23}	(z_2, v_{23})
v_{24}	ODP V_{24}	(z_2, v_{24})
v_{25}	ODP V_{25}	(z_2, v_{25})
v_{26}	ODP V_{26}	(z_2, v_{26})

K. Data Jarak Antar ODP (*vertex*)

<i>Vertex 1</i>	<i>Vertex 2</i>	<i>Edge</i>	Jarak (m)
v_{11}	v_{12}	(v_{11}, v_{12})	120
v_{11}	v_{13}	(v_{11}, v_{13})	210
v_{12}	v_{13}	(v_{12}, v_{13})	100
v_{11}	v_{14}	(v_{11}, v_{14})	400
v_{12}	v_{14}	(v_{12}, v_{14})	300
v_{13}	v_{14}	(v_{13}, v_{14})	200
v_{11}	v_{15}	(v_{11}, v_{15})	350
v_{12}	v_{15}	(v_{12}, v_{15})	280

v_{13}	v_{15}	(v_{13}, v_{15})	290
v_{14}	v_{15}	(v_{14}, v_{15})	95
v_{11}	v_{16}	(v_{11}, v_{16})	400
v_{12}	v_{16}	(v_{12}, v_{16})	300
v_{13}	v_{16}	(v_{13}, v_{16})	350
v_{14}	v_{16}	(v_{14}, v_{16})	200
v_{15}	v_{16}	(v_{15}, v_{16})	100
v_{11}	v_{17}	(v_{11}, v_{17})	600
v_{12}	v_{17}	(v_{12}, v_{17})	500
v_{13}	v_{17}	(v_{13}, v_{17})	400
v_{14}	v_{17}	(v_{14}, v_{17})	190
v_{15}	v_{17}	(v_{15}, v_{17})	210
v_{16}	v_{17}	(v_{16}, v_{17})	170
v_{11}	v_{18}	(v_{11}, v_{18})	750
v_{12}	v_{18}	(v_{12}, v_{18})	650
v_{13}	v_{18}	(v_{13}, v_{18})	650
v_{14}	v_{18}	(v_{14}, v_{18})	500
v_{15}	v_{18}	(v_{15}, v_{18})	400
v_{16}	v_{18}	(v_{16}, v_{18})	300
v_{17}	v_{18}	(v_{17}, v_{18})	350
v_{11}	v_{19}	(v_{11}, v_{19})	1100
v_{12}	v_{19}	(v_{12}, v_{19})	1000
v_{13}	v_{19}	(v_{13}, v_{19})	1000
v_{14}	v_{19}	(v_{14}, v_{19})	800
v_{15}	v_{19}	(v_{15}, v_{19})	800
v_{16}	v_{19}	(v_{16}, v_{19})	700
v_{17}	v_{19}	(v_{17}, v_{19})	700
v_{18}	v_{19}	(v_{18}, v_{19})	350
v_{11}	v_{20}	(v_{11}, v_{20})	850
v_{12}	v_{20}	(v_{12}, v_{20})	750
v_{13}	v_{20}	(v_{13}, v_{20})	750
v_{14}	v_{20}	(v_{14}, v_{20})	650
v_{15}	v_{20}	(v_{15}, v_{20})	550
v_{16}	v_{20}	(v_{16}, v_{20})	450
v_{17}	v_{20}	(v_{17}, v_{20})	450
v_{18}	v_{20}	(v_{18}, v_{20})	120
v_{19}	v_{20}	(v_{19}, v_{20})	240
v_{11}	v_{21}	(v_{11}, v_{21})	1100
v_{12}	v_{21}	(v_{12}, v_{21})	1000
v_{13}	v_{21}	(v_{13}, v_{21})	1000

v_{14}	v_{21}	(v_{14}, v_{21})	850
v_{15}	v_{21}	(v_{15}, v_{21})	750
v_{16}	v_{21}	(v_{16}, v_{21})	650
v_{17}	v_{21}	(v_{17}, v_{21})	700
v_{18}	v_{21}	(v_{18}, v_{21})	350
v_{19}	v_{21}	(v_{19}, v_{21})	650
v_{20}	v_{21}	(v_{20}, v_{21})	400
v_{11}	v_{22}	(v_{11}, v_{22})	2000
v_{12}	v_{22}	(v_{12}, v_{22})	1000
v_{13}	v_{22}	(v_{13}, v_{22})	1800
v_{14}	v_{22}	(v_{14}, v_{22})	1900
v_{15}	v_{22}	(v_{15}, v_{22})	2100
v_{16}	v_{22}	(v_{16}, v_{22})	2100
v_{17}	v_{22}	(v_{17}, v_{22})	2300
v_{18}	v_{22}	(v_{18}, v_{22})	2600
v_{19}	v_{22}	(v_{19}, v_{22})	2500
v_{20}	v_{22}	(v_{20}, v_{22})	2400
v_{21}	v_{22}	(v_{21}, v_{22})	2300
v_{11}	v_{23}	(v_{11}, v_{23})	2300
v_{12}	v_{23}	(v_{12}, v_{23})	2200
v_{13}	v_{23}	(v_{13}, v_{23})	2100
v_{14}	v_{23}	(v_{14}, v_{23})	2200
v_{15}	v_{23}	(v_{15}, v_{23})	2400
v_{16}	v_{23}	(v_{16}, v_{23})	2400
v_{17}	v_{23}	(v_{17}, v_{23})	2700
v_{18}	v_{23}	(v_{18}, v_{23})	2300
v_{19}	v_{23}	(v_{19}, v_{23})	2400
v_{20}	v_{23}	(v_{20}, v_{23})	2400
v_{21}	v_{23}	(v_{21}, v_{23})	2000
v_{22}	v_{23}	(v_{22}, v_{23})	280
v_{11}	v_{24}	(v_{11}, v_{24})	2600
v_{12}	v_{24}	(v_{12}, v_{24})	2500
v_{13}	v_{24}	(v_{13}, v_{24})	2400
v_{14}	v_{24}	(v_{14}, v_{24})	2500
v_{15}	v_{24}	(v_{15}, v_{24})	2400
v_{16}	v_{24}	(v_{16}, v_{24})	2300
v_{17}	v_{24}	(v_{17}, v_{24})	2300
v_{18}	v_{24}	(v_{18}, v_{24})	2000
v_{19}	v_{24}	(v_{19}, v_{24})	2000
v_{20}	v_{24}	(v_{20}, v_{24})	2100

v_{21}	v_{24}	(v_{21}, v_{24})	1700
v_{22}	v_{24}	(v_{22}, v_{24})	600
v_{23}	v_{24}	(v_{23}, v_{24})	300
v_{11}	v_{25}	(v_{11}, v_{25})	2400
v_{12}	v_{25}	(v_{12}, v_{25})	2300
v_{13}	v_{25}	(v_{13}, v_{25})	2600
v_{14}	v_{25}	(v_{14}, v_{25})	2400
v_{15}	v_{25}	(v_{15}, v_{25})	2100
v_{16}	v_{25}	(v_{16}, v_{25})	2000
v_{17}	v_{25}	(v_{17}, v_{25})	2000
v_{18}	v_{25}	(v_{18}, v_{25})	1600
v_{19}	v_{25}	(v_{19}, v_{25})	1700
v_{20}	v_{25}	(v_{20}, v_{25})	1700
v_{21}	v_{25}	(v_{21}, v_{25})	1300
v_{22}	v_{25}	(v_{22}, v_{25})	1000
v_{23}	v_{25}	(v_{23}, v_{25})	700
v_{24}	v_{25}	(v_{24}, v_{25})	350
v_{11}	v_{26}	(v_{11}, v_{26})	2100
v_{12}	v_{26}	(v_{12}, v_{26})	2000
v_{13}	v_{26}	(v_{13}, v_{26})	2300
v_{14}	v_{26}	(v_{14}, v_{26})	2100
v_{15}	v_{26}	(v_{15}, v_{26})	1800
v_{16}	v_{26}	(v_{16}, v_{26})	1600
v_{17}	v_{26}	(v_{17}, v_{26})	1700
v_{18}	v_{26}	(v_{18}, v_{26})	1300
v_{19}	v_{26}	(v_{19}, v_{26})	1400
v_{20}	v_{26}	(v_{20}, v_{26})	1400
v_{21}	v_{26}	(v_{21}, v_{26})	1000
v_{22}	v_{26}	(v_{22}, v_{26})	1300
v_{23}	v_{26}	(v_{23}, v_{26})	1000
v_{24}	v_{26}	(v_{24}, v_{26})	700
v_{25}	v_{26}	(v_{25}, v_{26})	300

L. Matriks ODC dan ODP

Vertex	z_2	v_{11}	v_{12}	v_{13}	v_{14}	v_{15}	v_{16}	v_{17}	v_{18}	v_{19}	v_{20}	v_{21}	v_{22}	v_{23}	v_{24}	v_{25}	v_{26}
z_2	0	1700	1600	1600	1500	1400	1300	1400	1000	850	1000	600	1700	1400	1100	700	350
v_{11}	1700	0	120	210	400	350	400	600	750	1100	850	1100	2000	2300	2600	2400	2100
v_{12}	1600	120	0	100	300	280	300	500	650	1000	750	1000	1000	2200	2500	2300	2000
v_{13}	1600	210	100	0	200	290	350	400	650	1000	750	1000	1800	2100	2400	2600	2300
v_{14}	1500	400	300	200	0	95	200	190	500	800	650	850	1900	2200	2500	2400	2100
v_{15}	1400	350	280	290	95	0	100	210	400	800	550	750	2100	2400	2400	2100	1800
v_{16}	1300	400	300	350	200	100	0	170	300	700	450	650	2100	2400	2300	2000	1600
v_{17}	1400	600	500	400	190	210	170	0	350	700	450	700	2300	2700	2300	2000	1700
v_{18}	1000	750	650	650	500	400	300	350	0	350	120	350	2600	2300	2000	1600	1300
v_{19}	850	1100	1000	1000	800	800	700	700	350	0	240	650	2500	2400	2000	1700	1400
v_{20}	1000	850	750	750	650	550	450	450	120	240	0	400	2400	2400	2100	1700	1400
v_{21}	600	1100	1000	1000	850	750	650	700	350	650	400	0	2300	2000	1700	1300	1000
v_{22}	1700	2000	1000	1800	1900	2100	2100	2300	2600	2500	2400	2300	0	280	600	1000	1300
v_{23}	1400	2300	2200	2100	2200	2400	2400	2700	2300	2400	2400	2000	280	0	300	700	1000
v_{24}	1100	2600	2500	2400	2500	2400	2300	2300	2000	2000	2100	1700	600	300	0	350	700
v_{25}	700	2400	2300	2600	2400	2100	2000	2000	1600	1700	1700	1300	1000	700	350	0	300
v_{26}	350	2100	2000	2300	2100	1800	1600	1700	1300	1400	1400	1000	1300	1000	700	300	0