

Lampiran 1 : Daftar Harga Satuan Dasar Upah,Bahan, dan Alat

DAFTAR HARGA SATUAN DASAR UPAH,BAHAN,DAN ALAT

Pekerjaan konstruksi
penghubung jalan masuk tol
Bandara Udara Juanda - Surabaya

No	Uraian	Satuan	Harga Satuan (Rp)
I	Tenaga :		
1	Mandor	Hari	60,000.00
2	Pekerja	Hari	45,000.00
II	Bahan / Material :		
1	Agregat kelas A	M3	110,000.00
2	Agregat kelas B	M3	90,000.00
3	Agregat halus	M3	125,000.00
4	Agregat kasar	M3	80,000.00
5	Aspal Curah	Kg	5,000.00
6	Aspal Drum	Kg	5,000.00
7	Baja tulangan polos	Kg	5,450.00
8	Baja tulangan ulir	Kg	5,450.00
9	Batu kali	M3	75,000.00
10	Batu pecah 0.5 - 1	M3	151,500.00
11	Batu pecah 1 - 2	M3	151,500.00
12	Beton readymix K - 125	M3	320,000.00
13	Beton readymix Fc' 260	M3	380,000.00
14	Beton readymix Flexure 40 Kg/cm2	M3	400,000.00
15	Cat marka	Kg	65,000.00
16	Filler	M3	900.00
17	Joint Sealent	M'	62,000.00
18	Geotextile	M2	9,000.00
19	Hotmix	Ton	520,000.00
20	Kawat bendrat	Kg	8,000.00
21	Kayu bekisiting	M3	2,000,000.00
22	Kayu kamfer	M3	4,600,000.00
23	Kerosene	Liter	2,500.00
24	Multiplex 12 mm	Lbr	150,000.00
25	Paku	Kg	8,250.00
26	Pasir beton	M3	80,000.00
27	Pasir pasang	M3	80,000.00
28	Pasir urug	M3	55,000.00
29	Pc Semen	Sak	36,000.00
30	Pelumas	Liter	27,500.00
31	Premium	Liter	4,500.00

Lampiran 1 : Daftar Harga Satuan Dasar Upah,Bahan, dan Alat (Lanjutan)

No	Uraian	Satuan	Harga Satuan (Rp)
32	Sirtu (Watu kosek)	M3	48,000.00
33	Solar	Liter	6,200.00
34	Tanah urug	M3	35,000.00
35	Unit Pracetak gelagar beton tipe 1 (L = 40m)	Unit	165,000,000.00
36	Steelmesh M7	M2	32,000.00
37	Dowel d.30 L = 450 mm	Bh	16,500.00
38	Tie bar	M'	15,000.00
39	Backing Rod	M'	15,000.00
40	Angker bar	Bh	12,500.00
41	Kertas aspal 2 ply	M2	65,000.00
42	Crack reducer	M'	18,250.00
43	RC pipe dia. 60 cm	M'	450,000.00
44	Rc pele 45 x 45 cm (2x sambungan)	M'	275,000.00
III Alat :			
1	Air Compressor	Jam	97,405.00
2	Asphalt Cutter HP 10	Jam	55,000.00
3	Asphalt Finisher HP 100	Jam	232,000.00
4	Asphalt Mixing Plant HP 200	Jam	660,000.00
5	Asphalt Sprayer HP 15	Jam	56,000.00
6	Bar Bender	Jam	18,500.00
7	Bar Cutter	Jam	18,500.00
8	Buldozer HP 100 - 150	Jam	287,424.85
9	Compressor 4000 - 6500 L/m	Jam	97,405.00
10	Concrete Mixer 0.3 - 0.6 M3	Jam	37,624.22
11	Concrete Pump	Jam	375,000.00
12	Concrete Vibrator HP 10	Jam	20,818.85
13	Concrete Paver	Jam	235,000.00
14	Crane 35 ton	Jam	375,000.00
15	Dump Truck 3 - 4 M3	Jam	119,305.12
16	Dump Truck 8 - 12 M3	Jam	150,374.22
17	Excavator HP 80 - 140	Jam	265,530.68
18	Flat Bed Truck 3 - 4 M3	Jam	120,000.00
19	Genset 250 Kva	Jam	175,000.00
20	Jack Hammer	Jam	50,000.00
21	Las listrik	Jam	55,000.00
22	Launching Girder	Jam	250,000.00
23	Motor Grader HP 100	Jam	203,454.20
24	Pemadat dengan penggetar 1.5 - 3 HP	Jam	200,000.00
25	Pneumatic Tyre Roller 8 - 10t HP 60	Jam	250,000.00
26	Pile Driver	Jam	550,000.00
27	Stamper 5 HP	Jam	20,000.00

Lampiran 1 : Daftar Harga Satuan Dasar Upah,Bahan, dan Alat (Lanjutan)

No	Uraian	Satuan	Harga Satuan (Rp)
28	Stone Crusher 220 HP	Jam	495,000.00
29	Tandem Roller 6 - 8 t HP 50	Jam	145,000.00
30	Three Wheel Roller 6- 8 t HP 55	Jam	180,000.00
31	Track Loader 95 HP	Jam	237,000.00
32	Tyre Roller 8 - 10t	Jam	180,000.00
33	Vibrator Roller 5 - 8 t HP 75	Jam	127,705.75
34	Vibro Tandem 6 - 8 t	Jam	220,000.00
35	Water Pump 70 - 100 mm HP 6	Jam	50,000.00
36	Water Tanker Truck 3000 - 4500 Lt	Jam	134,274.40
37	Wheel Loader 1 - 1.6 M3	Jam	250,000.00

Lampiran 2 : Rekapitulasi Hasil Survei

REKAPITULASI HASIL SURVEI PENGHITUNGAN VOLUME LALU LINTAS TERKLASIFIKASI

Lokasi : Jalan Baru Bandara Juanda
Arah : Dari Barat ke Timur

PERIODE	VOLUME LALU LINTAS							
	Satuan: Kendaraan				Satuan: SMP			
	LV	HV	MC	UM	LV	HV	MC	UM
06.00 - 06.15	4		2		4	0	0.5	0
06.15 - 06.30	5	1			5	1.3	0	0
06.30 - 06.45	6	1			6	1.3	0	0
06.45 - 07.00	3		1		3	0	0.25	0
07.00 - 07.15	8				8	0	0	0
07.15 - 07.30	12	2			12	2.6	0	0
07.30 - 07.45	14				14	0	0	0
07.45 - 08.00	11				11	0	0	0
08.00 - 08.15	9		3		9	0	0.75	0
08.15 - 08.30	13	3			13	3.9	0	0
08.30 - 08.45	12				12	0	0	0
08.45 - 09.00	15	1			15	1.3	0	0
09.00 - 09.15	16	2			16	2.6	0	0
09.15 - 09.30	13				13	0	0	0
09.30 - 09.45	8		1		8	0	0.25	0
09.45 - 10.00	12	2			12	2.6	0	0
10.00 - 10.15	14				14	0	0	0
10.15 - 10.30	17		3		17	0	0.75	0
10.30 - 10.45	18	1			18	1.3	0	0
10.45 - 11.00	11		2		11	0	0.5	0
11.00 - 11.15	26	2			26	2.6	0	0
11.15 - 11.30	13				13	0	0	0
11.30 - 11.45	12	2			12	2.6	0	0
11.45 - 12.00	15	1			15	1.3	0	0
12.00 - 12.15	17	1	3		17	1.3	0.75	0
12.15 - 12.30	18				18	0	0	0
12.30 - 12.45	10				10	0	0	0
12.45 - 13.00	8				8	0	0	0
13.00 - 13.15	11	1			11	1.3	0	0
13.15 - 13.30	7		1		7	0	0.25	0
13.30 - 13.45	6				6	0	0	0
13.45 - 14.00	5	2			5	2.6	0	0
14.00 - 14.15	7				7	0	0	0
14.15 - 14.30	12				12	0	0	0
14.30 - 14.45	4				4	0	0	0
14.45 - 15.00	3				3	0	0	0
15.00 - 15.15	5				5	0	0	0
15.15 - 15.30	7				7	0	0	0
15.30 - 15.45	4				4	0	0	0
15.45 - 16.00	2	1			2	1.3	0	0
16.00 - 16.15	6				6	0	0	0
16.15 - 16.30	2				2	0	0	0
16.30 - 16.45	5				5	0	0	0
16.45 - 17.00	1				1	0	0	0
17.00 - 17.15	2				2	0	0	0
17.15 - 17.30	0				0	0	0	0
17.30 - 17.45	1				1	0	0	0
17.45 - 18.00	1				1	0	0	0
18.00 - 18.15	0				0	0	0	0
18.15 - 18.30	1				1	0	0	0
18.30 - 18.45	0				0	0	0	0
18.45 - 19.00	1				1	0	0	0

ANALISIS JAM PUNCAK

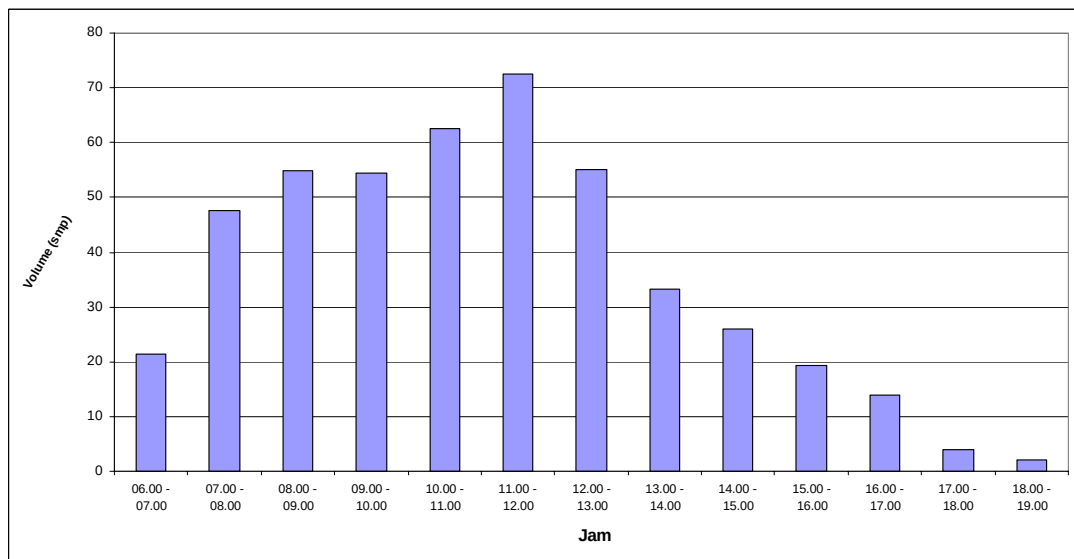
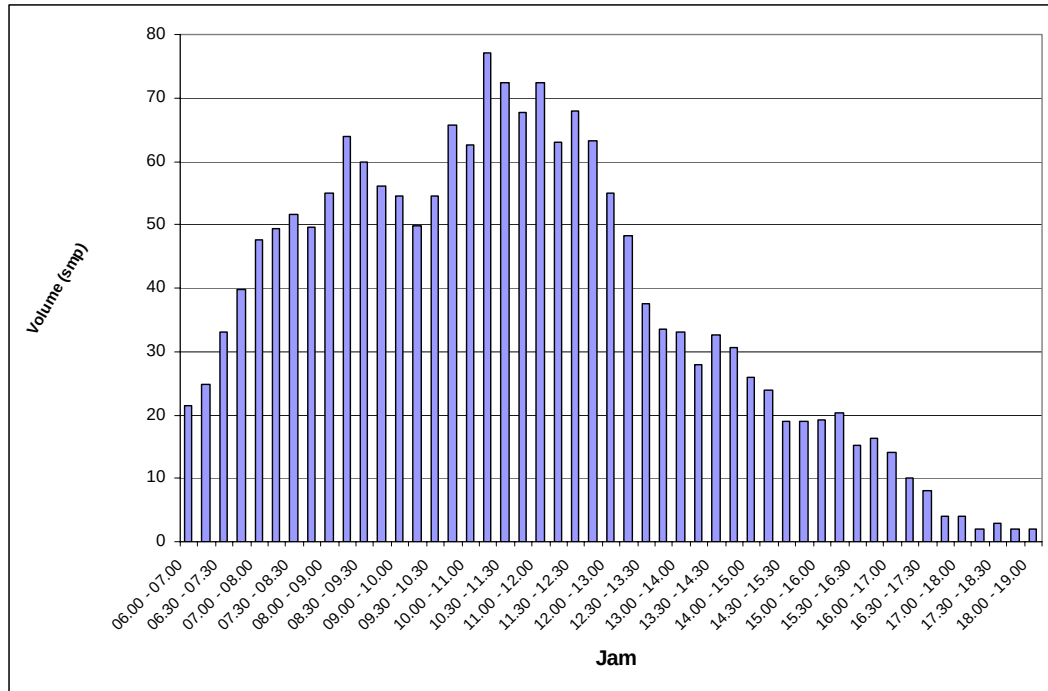
Lokasi : Jalan Baru Bandara Juanda
Arah : Dari Barat ke Timur

JAM	VOLUME
06.00 - 07.00	21.35
06.15 - 07.15	24.85
06.30 - 07.30	33.15
06.45 - 07.45	39.85
07.00 - 08.00	47.6
07.15 - 08.15	49.35
07.30 - 08.30	51.65
07.45 - 08.45	49.65
08.00 - 09.00	54.95
08.15 - 09.15	63.8
08.30 - 09.30	59.9
08.45 - 09.45	56.15
09.00 - 10.00	54.45
09.15 - 10.15	49.85
09.30 - 10.30	54.6
09.45 - 10.00	65.65
10.00 - 11.00	62.55
10.15 - 11.15	77.15
10.30 - 11.30	72.4
10.45 - 11.45	67.7
11.00 - 12.00	72.5
11.15 - 12.15	62.95
11.30 - 12.30	67.95
11.45 - 12.00	63.35
12.00 - 13.00	55.05
12.15 - 13.15	48.3
12.30 - 13.30	37.55
12.45 - 13.45	33.55
13.00 - 14.00	33.15
13.15 - 14.15	27.85
13.30 - 14.30	32.6
13.45 - 14.45	30.6
14.00 - 15.00	26
14.15 - 15.15	24
14.30 - 15.30	19
14.45 - 15.45	19
15.00 - 16.00	19.3
15.15 - 16.15	20.3
15.30 - 16.30	15.3
15.45 - 16.45	16.3
16.00 - 17.00	14
16.15 - 17.15	10
16.30 - 17.30	8
16.45 - 17.45	4
17.00 - 18.00	4
17.15 - 18.15	2
17.30 - 18.30	3
17.45 - 18.45	2
18.00 - 19.00	2

FLUKTUASI VOLUME LALU LINTAS

Lokasi : Jalan Baru Bandara Juanda
Arah : Dari Barat ke Timur

JAM	VOLUME
06.00 - 07.00	21.35
07.00 - 08.00	47.6
08.00 - 09.00	54.95
09.00 - 10.00	54.45
10.00 - 11.00	62.55
11.00 - 12.00	72.5
12.00 - 13.00	55.05
13.00 - 14.00	33.15
14.00 - 15.00	26
15.00 - 16.00	19.3
16.00 - 17.00	14
17.00 - 18.00	4
18.00 - 19.00	2
TOTAL	466.9



REKAPITULASI HASIL SURVEI
PENGHITUNGAN VOLUME LALU LINTAS TERKLASIFIKASI

Lokasi : Jalan Baru Bandara Juanda
Arah : Dari Timur ke Barat

PERIODE	VOLUME LALU LINTAS							
	Satuan: Kendaraan				Satuan: SMP			
	LV	HV	MC	UM	LV	HV	MC	UM
06.00 - 06.15					0	0	0	0
06.15 - 06.30					0	0	0	0
06.30 - 06.45	2				2	0	0	0
06.45 - 07.00					0	0	0	0
07.00 - 07.15	8				8	0	0	0
07.15 - 07.30	5				5	0	0	0
07.30 - 07.45	3				3	0	0	0
07.45 - 08.00			2		0	0	0.5	0
08.00 - 08.15	2				2	0	0	0
08.15 - 08.30	6				6	0	0	0
08.30 - 08.45	7				7	0	0	0
08.45 - 09.00	8				8	0	0	0
09.00 - 09.15	8				8	0	0	0
09.15 - 09.30	6				6	0	0	0
09.30 - 09.45	9		1		9	0	0.25	0
09.45 - 10.00	4				4	0	0	0
10.00 - 10.15	6		2		6	0	0.5	0
10.15 - 10.30	3		1		3	0	0.25	0
10.30 - 10.45	3				3	0	0	0
10.45 - 11.00	5	1			5	1.3	0	0
11.00 - 11.15	6				6	0	0	0
11.15 - 11.30	9				9	0	0	0
11.30 - 11.45	11				11	0	0	0
11.45 - 12.00	16				16	0	0	0
12.00 - 12.15	9				9	0	0	0
12.15 - 12.30	6		1		6	0	0.25	0
12.30 - 12.45	5				5	0	0	0
12.45 - 13.00	7				7	0	0	0
13.00 - 13.15	9				9	0	0	0
13.15 - 13.30	5				5	0	0	0
13.30 - 13.45	7	1			7	1.3	0	0
13.45 - 14.00	4				4	0	0	0
14.00 - 14.15	3				3	0	0	0
14.15 - 14.30	6				6	0	0	0
14.30 - 14.45	2				2	0	0	0
14.45 - 15.00			1		0	0	0.25	0
15.00 - 15.15	6				6	0	0	0
15.15 - 15.30	9				9	0	0	0
15.30 - 15.45	4				4	0	0	0
15.45 - 16.00	4				4	0	0	0
16.00 - 16.15	2				2	0	0	0
16.15 - 16.30	5				5	0	0	0
16.30 - 16.45					0	0	0	0
16.45 - 17.00	2				2	0	0	0
17.00 - 17.15					0	0	0	0
17.15 - 17.30					0	0	0	0
17.30 - 17.45	3				3	0	0	0
17.45 - 18.00					0	0	0	0
18.00 - 18.15					0	0	0	0
18.15 - 18.30					0	0	0	0
18.30 - 18.45	2				2	0	0	0
18.45 - 19.00					0	0	0	0

ANALISIS JAM PUNCAK

Lokasi : Jalan Baru Bandara Juanda
Arah : Dari Timur ke Barat

JAM	VOLUME
06.00 - 07.00	2
06.15 - 07.15	10
06.30 - 07.30	15
06.45 - 07.45	16
07.00 - 08.00	16.5
07.15 - 08.15	10.5
07.30 - 08.30	11.5
07.45 - 08.45	15.5
08.00 - 09.00	23
08.15 - 09.15	29
08.30 - 09.30	29
08.45 - 09.45	31.25
09.00 - 10.00	27.25
09.15 - 10.15	25.75
09.30 - 10.30	23
09.45 - 10.00	16.75
10.00 - 11.00	19.05
10.15 - 11.15	18.55
10.30 - 11.30	24.3
10.45 - 11.45	32.3
11.00 - 12.00	42
11.15 - 12.15	45
11.30 - 12.30	42.25
11.45 - 12.00	36.25
12.00 - 13.00	27.25
12.15 - 13.15	27.25
12.30 - 13.30	26
12.45 - 13.45	29.3
13.00 - 14.00	26.3
13.15 - 14.15	20.3
13.30 - 14.30	21.3
13.45 - 14.45	15
14.00 - 15.00	11.25
14.15 - 15.15	14.25
14.30 - 15.30	17.25
14.45 - 15.45	19.25
15.00 - 16.00	23
15.15 - 16.15	19
15.30 - 16.30	15
15.45 - 16.45	11
16.00 - 17.00	9
16.15 - 17.15	7
16.30 - 17.30	2
16.45 - 17.45	5
17.00 - 18.00	3
17.15 - 18.15	3
17.30 - 18.30	3
17.45 - 18.45	2
18.00 - 19.00	2

FLUKTUASI VOLUME LALU LINTAS

Lokasi : Jalan Baru Bandara Juanda
Arah : Dari Timur ke Barat

JAM	VOLUME
06.00 - 07.00	2
07.00 - 08.00	16.5
08.00 - 09.00	23
09.00 - 10.00	27.25
10.00 - 11.00	19.05
11.00 - 12.00	42
12.00 - 13.00	27.25
13.00 - 14.00	26.3
14.00 - 15.00	11.25
15.00 - 16.00	23
16.00 - 17.00	9
17.00 - 18.00	3
18.00 - 19.00	2
TOTAL	231.6

