

ENGINEERING COST ESTIMATE (ECE)
UMAH INSTAN BATA INTERLOCK

NO	JENIS ASET	DESKRIPSI	REFERENSI DOKUMEN	SATUAN		HARGA SATUAN (Rp)		TOTAL ESTIMASI BIAYA (Rp)	TKDN (%)		TOTAL NILAI TKDN (Rp)	PERSENTASE NILAI TKDN (%)	REV.
				QTY	SAT VOL	MATERIAL	UPAH		MATERIAL	UPAH			
				(1)	(2)	(3)	(4)		(5)=(1)*(3)+(4)	(6)			
PEKERJAAN SIPIL													
I		PEKERJAAN PERSIAPAN											
1.1		Pembersihan Selama Project		36,00	m2		19.500	702.000,00	0%	100%	702.000,00		
1.2		Bowplang dan Uitzet		24,00	m1	24.463,75	28.900	1.280.730,00	0%	100%	693.600,00		
		TOTAL I						1.982.730,00			1.395.600,00	70%	
II		PEKERJAAN TANAH DAN PONDASI											
2.1		Pekerjaan Pondasi Batu Kali											
		a. Pekerjaan Galian tanah pondasi & sloof		19,56	m3		82.500,00	1.613.700,00	0%	100%	1.613.700,00		
		b. Pekerjaan urugan tanah kembali		11,27	m3		65.500,00	738.185,00	0%	100%	738.185,00		
		d. Pas. Batu Kali		7,02	m3	571.923,00	276.750,00	5.957.684,46	100%	100%	5.957.684,46		
		e. Pas. Batu Kosong / Anstamping		5,07	m3	331.992,00	143.910,00	2.412.823,14	100%	100%	2.412.823,14		
		f. Pasir urug t = 5 cm		1,27	m3	144.000,00	36.100,00	228.727,00	100%	100%	228.727,00		
		g. Lantai rabat t = 5 cm		1,80	m3	727.898,57	172.160,00	1.620.105,43	100%	100%	1.620.105,43		
		TOTAL II						12.571.225,03			12.571.225,03	100%	
III		PEKERJAAN STRUKTUR BETON											
3.1		Pekerjaan Sloof 12.5/20											
		a. Pembesian Ø10		105,00	kg	15.729,00	2.031,00	1.864.884,18	53%	100%	1.088.622,99		
		b. Pembesian Ø8		51,27	kg	15.729,00	2.031,00	910.553,78	53%	100%	531.534,23		
		c. Bekisting		7,80	m2	65.323,25	107.120,00	1.345.057,35	100%	100%	1.345.057,35		
		d. Cor Beton		0,96	m3	915.505,71	248.760,00	1.117.695,09	100%	100%	1.117.695,09		
		TOTAL III						5.238.190,40			4.082.909,66	78%	
IV		PEKERJAAN DINDING											
4.1		Dinding Bata Interlock		100,35	m2	118.000,00	29.900,00	14.841.765,00	100%	100%	14.841.765,00		
4.2		Pembesian Ø10 (kolom & balok)		352,48	kg	15.729,00	2.031,00	6.260.057,23	53%	100%	3.643.763,91		
4.3		Cor Mortar		0,83	m3	915.505,71	248.760,00	970.211,73	96%	100%	939.008,55		
4.4		Acian dinding		200,70	m2	5.200,00	41.200,00	9.312.480,00	96%	100%	9.269.795,12		
4.5		Pengecatan dinding		200,70	m2	36.620,00	13.238,00	10.006.500,60	24%	100%	4.439.152,85		
		TOTAL IV						41.391.014,56			33.133.485,43	80%	
V		PEKERJAAN PINTU DAN JENDELA											
5.1		Pekerjaan Pintu Jendela Type PJ1 plus Kusen + cat c/w accessories		1,00	unit		2.040.620,00	2.040.620,00	86%	100%	1.757.994,13		
5.2		Pekerjaan Pintu Type P1 plus Kusen + cat c/w accessories		3,00	unit		948.742,50	2.846.227,50	86%	100%	2.452.024,99		
5.3		Pekerjaan Jendela Type J1 plus Kusen + cat c/w accessories		3,00	unit		800.125,00	2.400.375,00	86%	100%	2.067.923,06		
5.4		Pintu PVC Kamar Mandi uk.70x195cm		1,00	unit		687.566,43	687.566,43	87%	100%	599.282,90		
		TOTAL V						7.974.788,93			6.877.225,08	86%	
VI		PEKERJAAN ATAP											
		Rangka atap baja ringan galvalume		62,64	m2		213.980,45	13.403.735,34	58%	100%	7.756.741,64		
		Penutup atap seng gelombang kecil t=3mm include wuwung & accessories		67,36	m2	102.974,11	49.355,40	10.260.916,27	44%	100%	6.357.146,19		
		Penutup Dinding Gewel Kalsiboard t 3.5 mm		11,10	m2	37.641,99	51.805,67	992.869,00	38%	100%	732.897,63		
		TOTAL VI						24.657.520,62			14.846.785,47	60%	
VII		PEKERJAAN SANITASI											
7.1		Accessoris dalam kamar mandi											
		a. Closed jongkok warna putih		1,00	unit	158.192,54	83.571,65	241.764,18	80%	100%	209.935,85		
		b. Kran air PVC putar dia. 1/2		2,00	bh	40.267,19	21.002,30	122.538,98	94%	100%	117.594,17		

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				QTY	SAT VOL	MATERIAL	UPAH		MATERIAL	UPAH			
				(1)	(2)	(3)	(4)		(6)	(7)			
		c. Sarangan afvoor plastik (kamar mandi) 2"		1,00	bh	23.009,82	20.477,24	43.487,07	94%	100%	42.074,26		
		d. Timba Uk. Sedang & Gayung		1,00	Set	109.500,00	2.500,00	112.000,00	94%	100%	105.276,70		
7,2		Instalasi air bersih		5,00	m'	15.035,00	14.420,00	147.275,00	94%	100%	142.659,26		
7,3		Instalasi air kotor		1,00	unit	688.000,00	102.680,00	790.680,00	94%	100%	748.436,80		
7,4		Septic Tank 2 lubang		1,00	unit	912.509,55	493.105,57	1.405.615,12	100%	100%	1.405.615,12		
7,5		Resapan		1,00	unit	179.002,28	108.574,71	287.576,99	100%	100%	287.576,99		
		TOTAL VII						3.150.937,34			3.059.169,15	97%	
VIII		PEKERJAAN MEJA DAPUR											
8,1		Galvalume C75		1,00	lonjor	115.000,00	99.000,00	214.000,00	58%	100%	165.550,50		
8,2		Dinabolt M10		10,00	ea	3.300,00	0,00	33.000,00	58%	100%	19.097,10		
8,3		Baut Drill		40,00	ea	5.400,00	0,00	216.000,00	58%	100%	124.999,20		
8,4		Baut Multiplex		8,00	ea	5.400,00	0,00	43.200,00	58%	100%	24.999,84		
8,5		Multiplex Tb 2 cm		0,84	m2	161.461,00	0,00	135.627,24	100%	100%	135.627,24		
		TOTAL VIII						641.827,24			470.273,88	73%	
IX		PEKERJAAN PLAFOND											
9,1		Penutup Plafond Kalsiboard t 3,5 mm + rangka metal furing		43,20	m2	37.641,99	51.805,67	3.864.138,82	38%	100%	2.852.358,36		
		TOTAL IX						3.864.138,82			2.852.358,36	74%	
X		PEKERJAAN ELEKTRIKAL											
10,1		Material dan Instalasi Elektrikal		1,00	Ls	1.600.000,00	750.000,00	2.350.000,00	95%	100%	2.276.240,00		
		TOTAL X						2.350.000,00			2.276.240,00	97%	
		TOTAL PEKERJAAN (I-X)						103.822.372,94			81.565.272,06	79%	