

RENCANA ANGGARAN BIAYA (RAB)
PROYEK : PT. MERSI BIOVAC PROINDO
LINGKUP PEKERJAAN : CIVIL WORKS BLACK UTILITY BUILDING
LOKASI : SUKABUMI, JAWA BARAT
PENAWARAN HARGA NO :

No	DESKRIPSI	SAT	MBP				TOTAL MATERIAL	KETERANGAN
			VOLUME	UPAH	MATERIAL	TOTAL UPAH		
A	PERSIAPAN							
	1	Ls	1,00		36.000.000,00	-	36.000.000,00	
	2	Ls	1,00		23.868.000,00	-	23.868.000,00	
	3	Ls	1,00	18.000.000,00		18.000.000,00		
	4	Ls	1,00		16.486.195,73	-	16.486.195,73	
	5	Ls	1,00	10.725.000,00		10.725.000,00		
	6	Ls	1,00		22.500.000,00	-	22.500.000,00	
	7	Ls	1,00	14.000.000,00		14.000.000,00		
	8	Ls	1,00		110.000.000,00	-	110.000.000,00	
	TOTAL - A					42.725.000,00	208.854.195,73	
B	PEKERJAAN STRUKTUR							
B.1	PEKERJAAN SUB STRUCTURE							
	1	m1	226,80	10.345,24	19.400,96	2.346.300,00	4.400.138,16	
	2	m3	332,85	70.582,23	-	23.493.296,37	-	
	3	m3	160,47	27.874,00	-	4.473.026,49	-	
	4	m3	172,38	81.862,00	-	14.111.119,83	-	
	5	m3	25,93	39.875,00	275.605,00	1.034.116,26	7.147.526,29	
	6	m3	12,97	157.410,00	777.590,00	2.041.131,53	10.082.990,09	
	7	m3	486,00	18.333,33	-	8.910.054,49	-	
	Pekerjaan Pondasi Batu Kali							
	8	m3	78,79	109.065,00	779.152,00	8.593.449,48	61.390.944,38	
	9	m2	185,06	49.614,35	115.766,81	9.181.754,72	21.424.094,35	
	10	Kg	52,09	1.320,00	11.440,00	68.755,02	595.876,88	
	Pekerjaan Gutter Kabel Ruang High Voltage							
	11	m3	2,17	88.000,00	1.067.000,00	190.921,50	2.314.923,19	
	12	Kg	134,54	1.320,00	12.524,60	177.595,77	1.685.087,85	
	13	m2	16,46	63.525,00	44.275,00	1.045.542,09	728.711,16	
	14	m2	14,96	50.820,00	119.680,00	760.394,25	1.790.712,00	
	Pondasi Tapak							
	Pondasi Tapak - P1							
	15	m3	54,68	88.000,00	1.067.000,00	4.812.192,00	58.347.828,00	
	16	Kg	8.178,20	1.320,00	12.524,60	10.795.228,12	102.428.722,85	
	17	m2	78,12	63.525,00	44.275,00	4.962.573,00	3.458.763,00	
	Sloof							
	Balok 250 x 450 mm (S1)							
	18	m3	18,83	88.000,00	1.067.000,00	1.657.425,00	20.096.278,13	
	19	Kg	9.198,64	1.320,00	12.524,60	12.142.207,71	115.209.314,11	
	20	m2	141,04	50.820,00	119.680,00	7.167.716,33	16.879.816,80	
	Balok 200 x 400 mm (S2)							
	21	m3	10,76	88.000,00	1.067.000,00	946.915,20	11.481.346,80	
	22	Kg	6.984,65	1.320,00	12.524,60	9.219.742,31	87.479.988,28	
	23	m2	53,80	50.820,00	119.680,00	2.734.217,64	6.439.023,36	
	Balok 200 x 400 mm (B3)							
	24	m3	5,37	88.000,00	1.067.000,00	472.626,00	5.730.590,25	
	25	Kg	1.729,51	1.320,00	12.524,60	2.282.954,71	21.661.435,26	
	26	m2	71,61	50.820,00	119.680,00	3.639.220,20	8.570.284,80	
	Lantai beton							
	27	m3	91,53	39.875,00	275.605,00	3.649.751,27	25.226.073,95	
	28	m3	45,76	157.410,00	777.590,00	7.203.853,88	35.586.333,41	
	29	m2	22.591,82	1.320,00	12.524,60	29.821.205,84	282.953.541,44	
	30	m3	183,06	88.000,00	1.067.000,00	16.109.246,98	195.324.619,65	
	31	m1	269,99	4.078,80	29.367,80	1.101.242,35	7.929.063,72	
	Pekerjaan Pondasi Genset							
	32	m3	2,68	39.875,00	275.605,00	106.765,31	737.932,39	
	33	m3	1,34	157.410,00	777.590,00	210.732,64	1.040.998,61	
	34	m3	5,36	109.065,00	779.152,00	584.043,08	4.172.358,96	
	35	m2	800,88	1.320,00	12.524,60	1.057.163,18	10.030.716,68	
	36	m3	10,71	88.000,00	1.067.000,00	942.480,00	11.427.570,00	
	37	m1	12,77	4.078,80	29.367,80	52.078,12	374.968,07	
	Pekerjaan Pondasi Boiler							
	38	m3	3,41	39.875,00	275.605,00	135.989,70	939.923,29	
	39	m3	1,71	157.410,00	777.590,00	268.415,53	1.325.946,47	
	40	m3	6,82	109.065,00	779.152,00	743.910,55	5.314.439,96	
	41	m2	1.002,93	1.320,00	12.524,60	1.323.868,70	12.561.307,54	
	42	m3	13,64	88.000,00	1.067.000,00	1.200.460,80	14.555.587,20	
	43	m1	14,38	4.078,80	29.367,80	58.656,41	422.332,46	
	Pekerjaan Pondasi Mesin							
	44	m2	805,23	1.320,00	12.524,60	1.062.906,50	10.085.211,22	
	45	m3	15,93	88.000,00	1.067.000,00	1.402.003,02	16.999.286,59	
	46	m1	51,05	4.078,80	29.367,80	208.240,49	1.499.354,01	
	Pekerjaan Tali Air Area Boiler							
	47	m1	42,32	27.500,00	-	1.163.662,50	-	
	48	Unit	3,15	25.362,76	228.264,81	79.892,68	719.034,14	
	Pekerjaan Tali Air Area Chiller							
	49	m1	56,70	27.500,00	-	1.559.250,00	-	
	50	Unit	4,20	25.362,76	228.264,81	106.523,58	958.712,19	
	Tangga Teras							
	51	m2	15,78	64.625,00	94.963,00	1.019.879,44	1.498.658,58	
	52	m2	15,78	49.614,35	115.766,81	782.988,79	1.826.973,83	
	53	m3	2,32	39.875,00	275.605,00	92.320,59	638.094,48	
	54	m3	0,79	289.300,00	592.130,00	227.823,75	466.302,38	
	Pekerjaan Lantai Ruang Forklift							
	55	m2	147,75	21.504,21	50.176,50	3.177.228,50	7.413.533,16	
	56	m2	29,79	27.500,00	-	819.255,91	-	
	Pekerjaan Ramp Forklift							
	57	m3	32,47	70.582,23	-	2.292.077,07	-	
	58	m3	10,82	27.874,00	-	301.725,39	-	
	59	m3	21,65	81.862,00	-	1.772.249,70	-	
	60	m3	15,37	109.065,00	779.152,00	1.676.547,18	11.977.124,54	
	61	m3	4,73	39.875,00	275.605,00	188.409,38	1.302.233,63	
	62	m2	15,00	2.200,00	117.495,02	33.000,00	1.762.425,24	
	63	Kg	5,25	1.320,00	11.440,00	6.926,81	60.032,37	
	64	m3	2,36	88.000,00	1.067.000,00	207.900,00	2.520.787,50	
	65	m'	15,23	4.078,80	29.367,80	62.099,73	447.124,76	
	66	m2	15,75	27.500,00	-	433.125,00	-	
	67	m2	15,75	21.504,21	50.176,50	338.691,38	790.279,88	
	68	m2	6,62	49.614,35	115.766,81	328.617,84	766.774,96	
	Pekerjaan Gutter Saluran Luar							
	69	m3	5,91	88.000,00	1.067.000,00	519.750,00	6.301.968,75	
	70	Kg	397,12	1.320,00	12.524,60	524.197,20	4.973.757,79	
	71	m2	45,94	63.525,00	44.275,00	2.918.179,69	2.033.882,81	
	72	m2	32,81	50.820,00	119.680,00	1.667.531,25	3.927.000,00	
	Sub Total - B.1					226.803.343,73	1.258.236.662,58	
B.2	PEKERJAAN UPPER STRUCTURE							
	Kolom							
	Kolom - K1							
	1	m3	42,84	88.000,00	1.067.000,00	3.770.266,50	45.714.481,31	
	2	Kg	12.006,90	1.320,00	12.524,60	15.849.104,73	150.381.588,74	
	3	m2	377,91	50.820,00	119.680,00	19.205.157,51	45.227.730,24	
	Kolom - K2							
	4	m3	1,03	88.000,00	1.067.000,00	90.552,00	1.097.943,00	
	5	Kg	362,98	1.320,00	12.524,60	479.136,32	4.546.205,11	
	6	m2	11,76	50.820,00	119.680,00	597.643,20	1.407.436,80	
	Balok							
	Balok 250 x 550 mm (B1)							
	7	m3	30,14	88.000,00	1.067.000,00	2.651.880,00	32.154.045,00	

RENCANA ANGGARAN BIAYA (RAB)
PROYEK : PT. MERSI BIOVAC PROINDO
LINGKUP PEKERJAAN : CIVIL WORKS BLACK UTILITY BUILDING
LOKASI : SUKABUMI, JAWA BARAT
PENAWARAN HARGA NO :

No		DESKRIPSI	SAT	MBP					KETERANGAN
				VOLUME	UPAH	MATERIAL	TOTAL UPAH	TOTAL MATERIAL	
	8	Besi Beton SNI Ulir BJTS 420A/B	Kg	10.807,68	1.320,00	12.524,60	14.266.141,96	135.361.910,31	
	9	Bekisting Sloof	m2	120,54	50.820,00	119.680,00	6.125.842,80	14.426.227,20	
		Balok 250 x 450 mm (B2)							
	10	Beton Ready Mix K-300, Slump 12±2	m3	20,95	88.000,00	1.067.000,00	1.843.380,00	22.350.982,50	
	11	Besi Beton SNI Ulir BJTS 420A/B	Kg	10.113,30	1.320,00	12.524,60	13.349.550,05	126.664.980,77	
	12	Bekisting Sloof	m2	83,79	50.820,00	119.680,00	4.258.207,80	10.027.987,20	
		Balok 250 x 450 mm (B3)							
	13	Beton Ready Mix K-300, Slump 12±2	m3	5,37	88.000,00	1.067.000,00	472.626,00	5.730.590,25	
	14	Besi Beton SNI Ulir BJTS 420A/B	Kg	1.729,51	1.320,00	12.524,60	2.282.954,71	21.661.435,26	
	15	Bekisting Sloof	m2	71,61	50.820,00	119.680,00	3.639.220,20	8.570.284,80	
		Dak Atap							
	16	Besi Beton SNI Ulir BJTS 420A/B	m2	24.205,74	1.320,00	12.524,60	31.951.575,16	303.167.195,60	
	17	Beton Ready Mix K-300 Integral, Slump 12±2	m3	145,37	88.000,00	1.067.000,00	12.792.433,49	155.108.256,02	
	18	Bekisting Pelat	m2	969,12	50.820,00	119.680,00	49.250.868,92	115.984.730,27	
	19	Waterproofing Membrane Sika Bit	m2	969,12	75.735,00	176.715,00	73.396.587,13	171.258.703,30	
	20	Tali Air Uk. 25 cm x 50 mm	m1	163,61	27.500,00	-	4.499.302,50	-	
		Pekerjaan Pondasi AC							
	21	Besi Beton SNI Ulir BJTS 420A/B	m2	103,01	1.320,00	12.524,60	135.976,92	1.290.194,30	
	22	Beton Ready Mix K-300, Slump 12±2	m3	1,64	88.000,00	1.067.000,00	144.532,08	1.752.451,47	
	23	Bekisting Tepi	m2	21,97	50.820,00	119.680,00	1.116.418,84	2.629.142,21	
		Pekerjaan Down Pipe							
	24	Pipa PVC Ø 4" Type AW ex. Rucika Wavin + accessories	m'	195,30	33.033,00	77.077,00	6.451.344,90	15.053.138,10	
		Pekerjaan Tangga Service							
	25	Pipa Besi Ø 3", Pipa Besi Ø 2" , dan Plat Stripp 3 mm	m1	1,00	726.048,18	3.774.027,33	726.048,18	3.774.027,33	
		Sub Total - B.2					269.346.751,89	1.395.341.667,09	
		TOTAL - B					496.150.095,62	2.653.578.329,66	
C		PEKERJAAN ARSITEKTUR							
		Pekerjaan dinding							
	1	Dinding bata Ringan Tebal = 10 cm, berikut dengan kekuatan kolom praktis dan ring balok dengan modul maks 9 m2, beserta kekuatan opening jendela, louver, exhaust fan dan glass block dengan menggunakan ring balok	m2	834,74	64.625,00	141.790,00	53.945.040,19	118.357.713,71	
	2	Dinding bata Merah Tebal = 20 cm, berikut dengan kekuatan kolom praktis dan ring balok dengan modul maks 9 m2, beserta kekuatan opening jendela, louver, exhaust fan dan glass block dengan menggunakan ring balok	m2	133,29	64.625,00	152.240,00	8.613.672,37	20.291.612,88	
	3	Plesteran (1 Semen : 5 Pasir) t = 20 mm & Acian t =5 mm	m2	1.936,05	24.390,63	56.911,47	47.221.552,38	110.183.622,23	
	4	Cat Interior	m2	968,03	8.805,50	62.690,15	8.523.957,35	60.685.725,77	
	5	Cat Eksterior	m2	968,03	9.218,00	46.834,70	8.923.268,28	45.337.230,72	
	6	Cat Dak Atap	m2	969,12	8.805,50	62.690,15	8.533.619,17	60.754.512,47	
		Pekerjaan Bund Wall Daily Tank							
	7	Dinding bata Merah	m2	1,26	64.625,00	152.240,00	81.427,50	191.822,40	
	8	Plesteran (1 Semen : 5 Pasir) t = 20 mm & Acian t =5 mm	m2	2,52	24.390,63	56.911,47	61.464,39	143.416,90	
		Pekerjaan Pintu Sliding Door							
	9	Pintu Sliding Door 2200x2800 mm, Include Rel Pintu, Pintu Akses Orang 1000x2200 mm, Partisi Wiremesh, Insect Screen, Rangka Holow 60.60.1,2, dan Plat Galvanis 2 mm	Unit	2,00	1.265.552,53	20.432.138,06	2.531.105,06	40.864.276,13	
		Pekerjaan Pintu, Lover, dan Glass Block							
	10	Pintu Single + Insect Screen	Unit	2,00	902.520,83	3.610.083,33	1.805.041,67	7.220.166,67	
	11	Pintu Double + Insect Screen	Unit	7,00	1.231.887,50	4.927.550,00	8.623.212,50	34.492.850,00	
	12	Pekerjaan Glass Block	Unit	27,00	219.499,50	1.243.830,50	5.926.486,50	33.583.423,50	
	13	Louver Aluminium + Insect Screen	Unit	31,00	652.142,86	2.608.571,43	20.216.428,57	80.865.714,29	
		Partisi Area Trafo							
	14	Partisi Expanded Mesh dan Rangka Hollow	m'	4,83	65.736,00	1.017.827,80	317.504,88	4.916.108,27	
	15	Pintu Expanded Mesh Uk. 1000x2200 mm	Unit	1,00	169.640,02	678.560,08	169.640,02	678.560,08	
		Partisi Area Charging Forklift							
	16	Partisi Expanded Mesh dan Rangka Hollow	m'	12,15	76.692,00	1.422.797,02	931.807,80	17.286.983,75	
	17	Pintu Sliding 1,5 x 3 m	Unit	1,00	910.700,17	-	910.700,17	-	
		Pekerjaan Finishing Lantai							
	18	Pekerjaan Finishing Epoxy tebal 1000 micron	m2	704,00	27.500,00	187.000,00	19.359.996,29	131.647.974,77	
	19	Railing pipa tangga teras : Hand Rail 2" + tiang 1/2" + aksesoris	m'	38,82	33.654,72	401.329,66	1.306.509,89	15.580.018,85	
	20	Exhaust Fan Ø40"	Unit	6,00	104.500,00	5.120.500,00	627.000,00	30.723.000,00	
		Pekerjaan Dog house Atap							
	21	Dinding bata Merah Tebal = 10 cm, berikut dengan kekuatan kolom praktis dan ring balok dengan modul maks 9 m2, beserta kekuatan opening jendela, louver, exhaust fan dan glass block dengan menggunakan ring balok	m2	10,12	64.625,00	152.240,00	654.134,25	1.540.973,28	
	22	Plesteran (1 Semen : 5 Pasir) t = 20 mm & Acian t =5 mm	m2	20,24	24.390,63	56.911,47	493.763,91	1.152.115,80	
	23	Pekerjaan dak Atap Beton tebal = 10 cm	m3	0,57	88.000,00	1.067.000,00	49.896,00	604.989,00	
	24	Waterproofing Membrane Sika Bit	m2	5,67	75.735,00	176.715,00	429.417,45	1.001.974,05	
		TOTAL - C					200.256.646,59	818.104.785,51	
D		PEKERJAAN PLUMBING & JALUR PIPA							
		PEKERJAAN DRAINAGE							
		Pekerjaan Pipa High Temperature							
	1	Pipa Galvanis Ø 4"	m'	39,20	89.958,00	359.832,00	3.526.744,93	14.106.979,71	
	2	Galian + urug pasir 10 cm dibawah pipa + urug kembali untuk Pipa Galvanis	m'	36,68	27.500,00	-	1.008.819,63	-	
	3	Tutup Clean Out SS	Unit	1,00	22.495,00	295.900,00	22.495,00	295.900,00	
		Pekerjaan Pipa Waste Water							
	4	Pipa PPR Ø 4"	m'	37,45	30.156,50	271.408,50	1.129.442,81	10.164.985,29	
	5	Pipa PPR Ø 6"	m'	73,58	60.533,00	544.797,00	4.454.196,71	40.087.770,41	
	6	Galian + urug pasir 10 cm dibawah pipa + urug kembali untuk Pipa Galvanis	m'	63,50	55.000,00	-	3.492.662,25	-	
	7	Floor Drain SS	Unit	16,00	22.495,00	414.700,00	359.920,00	6.635.200,00	
	8	Tutup Clean Out SS	Unit	3,00	22.495,00	847.000,00	67.485,00	2.541.000,00	
		Pekerjaan Pipa Sparing Kabel							
	8	Pipa Galvanis Ø 6"	m'	30,71	156.178,00	624.712,00	4.796.616,83	19.186.467,30	
	9	Galian + urug pasir 10 cm dibawah pipa + urug kembali untuk Pipa Galvanis	m'	8,35	55.000,00	-	459.112,50	-	
		TOTAL - D					19.317.495,65	93.018.302,71	
				TOTAL (Item A S/D Item D)			758.449.237,86	3.773.555.613,61	
				TOTAL UPAH + MATERIAL				4.532.004.851,48	
				PPN				498.520.533,66	
				TOTAL INCLUDE PPN				5.030.525.385,14	

					TOTAL (Item A S/D Item D)		758.449.237,86	3.773.555.613,61	
					TOTAL UPAH + MATERIAL			4.532.004.851,48	
					PPN			498.520.533,66	
					TOTAL INCLUDE PPN			5.030.525.385,14	