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LAMPIRAN

LAMPIRAN 1. DATA HASIL PENGUJIAN BENDA UJI HUBUNGAN BEBAN DAN LENDUTAN BC-1

Date+A2:A2:Q25	LOAD		LVDT L1	LVDT L2	LVDT B1		LVDT B2	SG1 L1	SG2 L2	SG3 L3	SG4 T1	SG5 T2	SG 6T3	SG7 M1	SG8 M2
12/02/2019 16:03:3	0	0	0.87	0.01	0	0	0	1.93237	2.89855	0.966184	1.87793	0	0.938967	0	-1.93237
12/02/2019 16:05:4	-14.6608	14.6608	1.125	0.04	-0.065	0.065	-0.06	8.69565	5.7971	12.5604	12.2066	10.628	10.3286	0	-6.76329
12/02/2019 16:05:5	-20.3252	20.3252	1.125	0.05	-0.09	0.09	-0.085	8.69565	3.86473	13.5266	13.1455	12.5604	12.2066	-6.57277	-12.5604
12/02/2019 16:05:5	-26.4894	26.4894	1.13	0.055	-0.13	0.13	-0.11	6.76329	1.93237	14.4928	12.2066	14.4928	13.1455	-12.2066	-17.3913
12/02/2019 16:06:0	-33.6532	33.6532	0.915	0.06	-0.175	0.175	-0.145	6.76329	0.966184	15.4589	11.2676	16.4251	11.2676	-19.7183	-23.1884
12/02/2019 16:06:0	-40.6504	40.6504	1.02	0.06	-0.205	0.205	-0.17	6.76329	-0.96618	18.3575	12.2066	19.3237	12.2066	-24.4131	-29.9517
12/02/2019 16:06:1	-48.314	48.314	1.025	0.065	-0.24	0.24	-0.2	7.72947	-1.93237	20.2899	13.1455	22.2222	14.0845	-32.8638	-36.715
12/02/2019 16:06:2	-56.4774	56.4774	1.02	0.07	-0.28	0.28	-0.23	7.72947	-2.89855	23.1884	13.1455	25.1208	15.0235	-37.5587	-42.5121
12/02/2019 16:06:2	-63.8078	63.8078	1.02	0.07	-0.31	0.31	-0.255	8.69565	-4.83092	25.1208	13.1455	26.087	16.9014	-45.0704	-50.2415
12/02/2019 16:06:2	-68.306	68.306	1.015	0.07	-0.335	0.335	-0.28	8.69565	-4.83092	26.087	14.0845	28.9855	17.8404	-49.7653	-54.1063
12/02/2019 16:06:3	-67.473	67.473	1.015	0.07	-0.335	0.335	-0.28	8.69565	-4.83092	25.1208	13.1455	28.9855	15.9624	-50.7042	-53.1401
12/02/2019 16:06:3	-74.6368	74.6368	1.015	0.07	-0.37	0.37	-0.305	8.69565	-5.7971	28.0193	14.0845	30.9179	17.8404	-57.277	-59.9034
12/02/2019 16:06:4	-77.469	77.469	1.02	0.07	-0.39	0.39	-0.33	7.72947	-7.72947	28.0193	13.1455	31.8841	17.8404	-61.9718	-62.8019
12/02/2019 16:06:4	-80.801	80.801	1.02	0.07	-0.405	0.405	-0.35	6.76329	-9.66184	27.0531	12.2066	31.8841	18.7793	-65.7277	-66.6667
12/02/2019 16:06:4	-84.6328	84.6328	1.02	0.075	-0.425	0.425	-0.37	5.7971	-10.628	27.0531	10.3286	32.8502	16.9014	-70.4225	
12/02/2019 16:06:5	-88.1314	88.1314	1.02	0.075	-0.445	0.445	-0.385	4.83092	-12.5604	27.0531	9.38967	33.8164	15.9624	-76.0563	
12/02/2019 16:06:5	-91.9632	91.9632	1.015	0.075	-0.465	0.465	-0.4	4.83092	-13.5266	28.0193	8.4507	34.7826	16.9014	-80.7512	
12/02/2019 16:07:0	-95.1286	95.1286	1.005	0.075	-0.48	0.48	-0.415	3.86473	-15.4589	28.9855	8.4507	36.715	15.9624	-86.385	
12/02/2019 16:07:0	-98.7938	98.7938	1.02	0.075	-0.5	0.5	-0.43	3.86473	-16.4251	29.9517	8.4507	37.6812	15.9624	-90.1408	
12/02/2019 16:07:1	-102.126	102.126	1.025	0.08	-0.525	0.525	-0.445	3.86473	-16.4251	30.9179	8.4507	40.5797	17.8404	-93.8967	
12/02/2019 16:07:1	-104.791	104.791	1.02	0.08	-0.54	0.54	-0.465	4.83092	-16.4251	32.8502	9.38967	43.4783	17.8404	-97.6526	
12/02/2019 16:07:2	-108.457	108.457	1.02	0.08	-0.555	0.555	-0.49	3.86473	-17.3913	33.8164	10.3286	44.4444	17.8404	-100.469	
12/02/2019 16:07:2	-111.789	111.789	1.02	0.09	-0.575	0.575	-0.51	3.86473	-18.3575	33.8164	10.3286	47.343	19.7183	-105.164	
12/02/2019 16:07:3	-114.954	114.954	1.01	0.09	-0.595	0.595	-0.525	3.86473	-19.3237	34.7826	9.38967	49.2754	19.7183	-109.859	
12/02/2019 16:07:3	-117.953	117.953	1.005	0.09	-0.61	0.61	-0.54	3.86473	-20.2899	36.715	8.4507	52.1739	19.7183	-115.493	
12/02/2019 16:07:4	-121.118	121.118	1.005	0.09	-0.63	0.63	-0.56	4.83092	-20.2899	37.6812	10.3286	56.0386	20.6573	-120.188	
12/02/2019 16:07:4	-124.45	124.45	1.005	0.095	-0.65	0.65	-0.575	4.83092	-20.2899	39.6135	12.2066	61.8358	21.5962	-123.944	
12/02/2019 16:07:5	-128.115	128.115	0.96	0.095	-0.67	0.67	-0.59	5.7971	-21.256	42.5121	13.1455	66.6667	23.4742	-128.639	
12/02/2019 16:07:5	-131.281	131.281	0.96	0.1	-0.69	0.69	-0.61	6.76329	-20.2899	43.4783	15.0235	73.43	25.3521	-132.394	
12/02/2019 16:08:0	-134.779	134.779	0.96	0.1	-0.71	0.71	-0.625	7.72947	-20.2899	45.4106	15.9624	82.1256	26.2911	-138.028	
12/02/2019 16:08:0	-137.945	137.945	0.955	0.1	-0.725	0.725	-0.64	8.69565	-19.3237	47.343	18.7793	90.8213	28.169	-140.845	
12/02/2019 16:08:1	-140.61	140.61	0.95	0.1	-0.74	0.74	-0.65	9.66184	-20.2899	49.2754	18.7793	97.5845	30.0469	-142.723	
12/02/2019 16:08:1	-143.942	143.942	0.95	0.1	-0.765	0.765	-0.665	10.628	-20.2899	50.2415	20.6573	105.314	30.9859	-147.418	

12/02/2019 16:08:2	-147.441	147.441	0.945	0.1	-0.785	0.785	-0.685	10.628	-21.256	52.1739	21.5962	113.043	30.9859	-153.991
12/02/2019 16:08:2	-150.773	150.773	0.94	0.1	-0.805	0.805	-0.695	10.628	-21.256	54.1063	22.5352	117.874	32.8638	-159.624
12/02/2019 16:08:3	-153.938	153.938	0.935	0.11	-0.825	0.825	-0.72	10.628	-22.2222	55.0725	23.4742	123.672	33.8028	-162.441
12/02/2019 16:08:3	-157.604	157.604	0.835	0.115	-0.845	0.845	-0.74	10.628	-23.1884	56.0386	23.4742	132.367	35.6808	-169.014
12/02/2019 16:08:4	-160.103	160.103	0.83	0.115	-0.86	0.86	-0.75	10.628	-24.1546	57.0048	23.4742	142.995	35.6808	-172.77
12/02/2019 16:08:4	-163.101	163.101	0.83	0.11	-0.88	0.88	-0.765	10.628	-24.1546	58.9372	24.4131	152.657	37.5587	-178.404
12/02/2019 16:08:5	-166.6	166.6	0.82	0.115	-0.895	0.895	-0.78	10.628	-25.1208	59.9034	25.3521	162.319	37.5587	-184.038
12/02/2019 16:08:5	-169.432	169.432	-0.125	0.115	-0.915	0.915	-0.8	11.5942	-26.087	61.8358	26.2911	171.981	39.4366	-190.61
12/02/2019 16:09:0	-172.931	172.931	0.185	0.115	-0.935	0.935	-0.815	9.66184	-27.0531	61.8358	26.2911	180.676	39.4366	-197.183
12/02/2019 16:09:0	-175.43	175.43	0.705	0.12	-0.955	0.955	-0.83	8.69565	-28.9855	61.8358	25.3521	190.338	38.4977	-205.634
12/02/2019 16:09:1	-178.095	178.095	0.715	0.12	-0.97	0.97	-0.84	8.69565	-29.9517	63.7681	25.3521	203.865	38.4977	-210.329
12/02/2019 16:09:1	-179.095	179.095	0.71	0.12	-0.98	0.98	-0.845	8.69565	-29.9517	63.7681	27.23	206.763	39.4366	-211.268
12/02/2019 16:09:1	-181.927	181.927	0.71	0.12	-0.995	0.995	-0.86	9.66184	-30.9179	65.7005	27.23	218.357	40.3756	-216.901
12/02/2019 16:09:2	-184.926	184.926	1.31	0.12	-1.015	1.015	-0.88	9.66184	-30.9179	66.6667	29.108	228.986	42.2535	-224.413
12/02/2019 16:09:2	-188.091	188.091	1.315	0.12	-1.04	1.04	-0.895	9.66184	-31.8841	68.599	30.0469	246.377	43.1925	-230.986
12/02/2019 16:09:3	-190.757	190.757	1.33	0.125	-1.06	1.06	-0.91	9.66184	-31.8841	70.5314	31.9249	266.667	45.0704	-238.498
12/02/2019 16:09:3	-193.423	193.423	1.325	0.125	-1.095	1.095	-0.965	10.628	-32.8502	71.4976	31.9249	283.092	46.0094	-246.009
12/02/2019 16:09:4	-195.922	195.922	1.325	0.13	-1.11	1.11	-0.98	9.66184	-32.8502	72.4638	31.9249	303.382	46.0094	-252.582
12/02/2019 16:09:4	-198.421	198.421	1.325	0.13	-1.13	1.13	-0.99	9.66184	-33.8164	73.43	32.8638	324.638	46.9484	-259.155
12/02/2019 16:09:5	-201.253	201.253	1.32	0.125	-1.145	1.145	-1.005	9.66184	-34.7826	74.3961	32.8638	345.894	47.8873	-266.667
12/02/2019 16:09:5	-203.918	203.918	1.32	0.125	-1.165	1.165	-1.02	9.66184	-35.7488	74.3961	33.8028	425.121	47.8873	-275.117
12/02/2019 16:10:0	-206.584	206.584	1.315	0.125	-1.185	1.185	-1.035	9.66184	-36.715	75.3623	34.7418	556.522	49.7653	-284.507
12/02/2019 16:10:0	-209.083	209.083	1.31	0.125	-1.205	1.205	-1.05	8.69565	-37.6812	76.3285	34.7418	628.986	50.7042	-292.019
12/02/2019 16:10:1	-211.582	211.582	1.305	0.125	-1.225	1.225	-1.06	7.72947	-39.6135	76.3285	35.6808	674.396	49.7653	-300.469
12/02/2019 16:10:1	-214.081	214.081	1.32	0.13	-1.245	1.245	-1.075	7.72947	-41.5459	75.3623	33.8028	714.976	49.7653	-309.859
12/02/2019 16:10:2	-216.247	216.247	0.19	0.13	-1.26	1.26	-1.085	7.72947	-41.5459	76.3285	34.7418	734.299	49.7653	-318.31
12/02/2019 16:10:2	-218.579	218.579	0.635	0.13	-1.295	1.295	-1.1	6.76329	-42.5121	76.3285	33.8028	746.86	51.6432	-324.883
12/02/2019 16:10:2	-221.078	221.078	0.62	0.13	-1.32	1.32	-1.11	6.76329	-43.4783	74.3961	34.7418	763.285	51.6432	-333.333
12/02/2019 16:10:3	-223.91	223.91	0.52	0.13	-1.34	1.34	-1.125	5.7971	-44.4444	65.7005	34.7418	787.44	51.6432	-341.784
12/02/2019 16:10:3	-225.41	225.41	0.365	0.135	-1.355	1.355	-1.14	5.7971	-46.3768	57.0048	34.7418	816.425	52.5822	-348.357
12/02/2019 16:10:4	-227.909	227.909	0.665	0.14	-1.375	1.375	-1.15	5.7971	-46.3768	55.0725	36.6197	846.377	53.5211	-355.869
12/02/2019 16:10:4	-230.574	230.574	0.685	0.14	-1.395	1.395	-1.165	5.7971	-46.3768	55.0725	37.5587	878.261	55.3991	-364.319
12/02/2019 16:10:5	-232.574	232.574	0.69	0.14	-1.41	1.41	-1.175	5.7971	-47.343	54.1063	39.4366	907.246	57.277	-369.953
12/02/2019 16:10:5	-235.073	235.073	0.69	0.14	-1.43	1.43	-1.19	6.76329	-46.3768	54.1063	40.3756	937.198	56.338	-377.465
12/02/2019 16:11:0	-236.739	236.739	0.665	0.14	-1.445	1.445	-1.2	6.76329	-47.343	53.1401	41.3146	961.353	59.1549	-382.16
12/02/2019 16:11:0	-238.571	238.571	0.665	0.14	-1.46	1.46	-1.21	6.76329	-49.2754	52.1739	40.3756	983.575	60.0939	-386.854
12/02/2019 16:11:1	-241.237	241.237	0.665	0.135	-1.475	1.475	-1.22	6.76329	-50.2415	51.2077	40.3756	1003.86	59.1549	-393.427
12/02/2019 16:11:1	-242.903	242.903	0.69	0.14	-1.495	1.495	-1.235	6.76329	-49.2754	51.2077	42.2535	1025.12	59.1549	-400
12/02/2019 16:11:1	-243.569	243.569	0.69	0.14	-1.5	1.5	-1.235	6.76329	-49.2754	51.2077	43.1925	1029.95	59.1549	-399.061
12/02/2019 16:11:2	-245.235	245.235	0.685	0.14	-1.515	1.515	-1.255	7.72947	-50.2415	51.2077	44.1315	1048.31	61.0329	-405.634

12/02/2019 16:11:2	-248.401	248.401	0.685	0.14	-1.535	1.535	-1.28	8.69565	-49.2754	50.2415	45.0704	1064.73	62.9108	-412.207		
12/02/2019 16:11:3	-249.234	249.234	0.685	0.14	-1.545	1.545	-1.29	8.69565	-49.2754	51.2077	46.0094	1068.6	63.8498	-415.962		
12/02/2019 16:11:3	-251.399	251.399	0.69	0.14	-1.56	1.56	-1.3	9.66184	-50.2415	50.2415	46.9484	1079.23	65.7277	-422.535		
12/02/2019 16:11:4	-253.732	253.732	0.695	0.145	-1.58	1.58	-1.315	10.628	-50.2415	50.2415	48.8263	1092.75	66.6667	-427.23		
12/02/2019 16:11:4	-255.898	255.898	0.695	0.145	-1.595	1.595	-1.325	10.628	-50.2415	50.2415	48.8263	1107.25	67.6056	-431.925		
12/02/2019 16:11:5	-257.73	257.73	0.68	0.145	-1.615	1.615	-1.34	10.628	-50.2415	47.343	49.7653	1119.81	68.5446	-438.498		
12/02/2019 16:11:5	-259.063	259.063	0.675	0.145	-1.625	1.625	-1.35	10.628	-50.2415	44.4444	50.7042	1132.37	68.5446	-446.009		
12/02/2019 16:12:0	-261.562	261.562	1.14	0.145	-1.645	1.645	-1.36	9.66184	-51.2077	43.4783	50.7042	1144.93	69.4836	-453.521		
12/02/2019 16:12:0	-263.894	263.894	1.14	0.145	-1.665	1.665	-1.375	9.66184	-52.1739	42.5121	50.7042	1152.66	69.4836	-457.277		
12/02/2019 16:12:1	-264.727	264.727	0.95	0.15	-1.685	1.685	-1.385	9.66184	-52.1739	42.5121	51.6432	1162.32	70.4225	-461.972		
12/02/2019 16:12:1	-266.727	266.727	0.95	0.15	-1.7	1.7	-1.395	10.628	-52.1739	41.5459	52.5822	1171.01	72.3005	-466.667		
12/02/2019 16:12:2	-268.726	268.726	0.945	0.145	-1.715	1.715	-1.405	9.66184	-55.0725	40.5797	53.5211	1172.95	72.3005	-471.362		
12/02/2019 16:12:2	-271.058	271.058	0.94	0.145	-1.735	1.735	-1.42	9.66184	-56.0386	39.6135	52.5822	1179.71	72.3005	-478.873		
12/02/2019 16:12:3	-271.891	271.891	0.93	0.145	-1.75	1.75	-1.425	9.66184	-56.0386	39.6135	52.5822	1189.37	72.3005	-484.507		
12/02/2019 16:12:3	-273.724	273.724	0.925	0.145	-1.765	1.765	-1.44	9.66184	-56.0386	38.6473	53.5211	1197.1	74.1784	-487.324		
12/02/2019 16:12:3	-275.89	275.89	0.92	0.15	-1.78	1.78	-1.45	9.66184	-56.0386	38.6473	53.5211	1203.86	74.1784	-493.897		
12/02/2019 16:12:4	-277.556	277.556	0.92	0.15	-1.8	1.8	-1.485	10.628	-56.0386	37.6812	53.5211	1212.56	74.1784	-497.653		
12/02/2019 16:12:5	-279.055	279.055	0.915	0.15	-1.815	1.815	-1.495	10.628	-56.0386	38.6473	55.3991	1221.26	76.0563	-502.347		
12/02/2019 16:12:5	-280.554	280.554	0.91	0.15	-1.83	1.83	-1.505	10.628	-57.0048	37.6812	55.3991	1228.99	76.0563	-506.103		
12/02/2019 16:12:5	-282.387	282.387	0.905	0.15	-1.845	1.845	-1.515	10.628	-57.0048	37.6812	57.277	1236.71	76.9953	-509.859		
12/02/2019 16:13:0	-284.553	284.553	0.9	0.15	-1.865	1.865	-1.53	11.5942	-57.971	38.6473	58.216	1246.38	78.8732	-515.493		
12/02/2019 16:13:1	-286.219	286.219	0.9	0.15	-1.88	1.88	-1.54	11.5942	-57.971	39.6135	59.1549	1257.97	78.8732	-521.127		
12/02/2019 16:13:1	-287.552	287.552	0.895	0.15	-1.895	1.895	-1.55	11.5942	-57.0048	39.6135	60.0939	1268.6	78.8732	-523.005		
12/02/2019 16:13:1	-289.551	289.551	0.89	0.15	-1.91	1.91	-1.56	11.5942	-57.0048	38.6473	60.0939	1281.16	80.7512	-528.638		
12/02/2019 16:13:2	-291.383	291.383	-1.605	0.145	-1.925	1.925	-1.575	12.5604	-57.971	38.6473	60.0939	1292.75	80.7512	-532.394		
12/02/2019 16:13:2	-293.049	293.049	0.46	0.15	-1.94	1.94	-1.585	12.5604	-57.0048	38.6473	61.9718	1305.31	81.6901	-538.967		
12/02/2019 16:13:3	-294.715	294.715	0.8	0.15	-1.96	1.96	-1.595	12.5604	-58.9372	37.6812	61.0329	1316.91	81.6901	-543.662		
12/02/2019 16:14:5	-295.882	295.882	1.15	0.195	-2.02	2.02	-1.69	10.628	-60.8696	34.7826	57.277	1343	77.9343	-559.624		
12/02/2019 16:15:0	-298.214	298.214	1.145	0.195	-2.04	2.04	-1.7	10.628	-60.8696	34.7826	56.338	1353.62	78.8732	-562.441		
12/02/2019 16:15:0	-299.547	299.547	1.02	0.195	-2.05	2.05	-1.71	10.628	-60.8696	35.7488	59.1549	1363.29	77.9343	-565.258		
12/02/2019 16:15:1	-301.379	301.379	1.245	0.2	-2.065	2.065	-1.72	11.5942	-59.9034	36.715	60.0939	1374.88	79.8122	-567.136		
12/02/2019 16:15:1	-302.879	302.879	1.255	0.205	-2.08	2.08	-1.73	11.5942	-59.9034	36.715	60.0939	1385.51	80.7512	-572.77		
12/02/2019 16:15:2	-304.045	304.045	1.255	0.205	-2.09	2.09	-1.74	11.5942	-60.8696	35.7488	61.0329	1395.17	82.6291	-575.587		
12/02/2019 16:16:3	-305.711	305.711	1.28	0.275	-2.125	2.125	-1.76	11.5942	-62.8019	35.7488	61.9718	1428.02	84.507	-582.16		
12/02/2019 16:16:3	-307.21	307.21	1.285	0.275	-2.14	2.14	-1.765	11.5942	-62.8019	36.715	61.9718	1435.75	85.446	-584.977		

12/04/2019 I	-433.16	433.16	438.49	-0.68	-0.705	-3.415	3.415	-2.41	0.4	0.71	-46.0094	-41.3146	44.1315	106.103	44.1315	357.746	-158.685	-731.455
12/04/2019 I	-435.802	435.49	432.99	-0.69	-0.715	-3.455	3.455	-2.43	0.4	0.71	-46.9484	-42.2535	44.1315	107.042	43.1925	368.075	-160.563	-737.089
12/04/2019 I	-432.993	432.99	425.83	-0.695	-0.715	-3.455	3.455	-2.43	0.395	0.71	-46.9484	-41.3146	44.1315	106.103	42.2535	375.587	-160.563	-736.15
12/04/2019 I	-425.83	425.83	409.34	-0.695	-0.72	-3.44	3.44	-2.435	0.4	0.71	-46.9484	-40.3756	42.2535	105.164	39.4366	378.404	-160.563	-726.761
12/04/2019 I	-409.336	409.34	393.01	-0.685	-0.715	-3.365	3.365	-2.39	0.395	0.71	-45.0704	-36.6197	38.4977	101.408	35.6808	372.77	-157.746	-707.042
12/04/2019 I	-393.009	393.01	377.35	-0.675	-0.72	-3.285	3.285	-2.34	0.395	0.71	-44.1315	-33.8028	35.6808	97.6526	30.9859	366.197	-154.93	-693.324
12/04/2019 I	-377.349	377.35	360.52	-0.66	-0.71	-3.205	3.205	-2.29	0.395	0.71	-44.1315	-30.9859	32.8638	93.8667	27.23	358.685	-152.113	-667.606
12/04/2019 I	-360.522	360.52	344.03	-0.64	-0.69	-3.13	3.13	-2.24	0.395	0.71	-42.2535	-28.169	30.0469	90.1408	22.5352	350.235	-148.357	-646.009
12/04/2019 I	-344.029	344.03	328.20	-0.62	-0.67	-3.045	3.045	-2.18	0.4	0.71	-41.3146	-25.3521	27.23	86.385	19.7183	341.784	-144.601	-624.413
12/04/2019 I	-328.202	328.20	314.04	-0.605	-0.65	-2.965	2.965	-2.125	0.395	0.71	-40.3756	-22.5352	25.3521	82.6291	15.9624	333.333	-140.845	-602.756
12/04/2019 I	-314.041	314.04	298.55	-0.585	-0.63	-2.885	2.885	-2.08	0.4	0.695	-39.4366	-21.5962	21.5962	79.8122	14.0845	325.822	-138.028	-583.099
12/04/2019 I	-298.547	298.55	283.55	-0.57	-0.61	-2.8	2.8	-2.025	0.4	0.685	-38.4977	-19.7183	19.7183	76.0563	13.1455	317.371	-135.211	-562.441
12/04/2019 I	-283.553	283.55	270.39	-0.555	-0.59	-2.72	2.72	-1.965	0.4	0.68	-37.5587	-17.8404	16.9014	72.3005	10.326	309.859	-132.394	-541.784
12/04/2019 I	-270.392	270.39	254.90	-0.535	-0.57	-2.635	2.635	-1.905	0.4	0.67	-36.6197	-15.9624	15.0235	68.5446	9.38967	301.408	-129.577	-521.127
12/04/2019 I	-254.898	254.90	242.07	-0.52	-0.55	-2.55	2.55	-1.855	0.4	0.665	-35.6808	-14.0845	12.2066	64.7887	7.51174	292.019	-126.761	-499.531
12/04/2019 I	-242.07	242.07	227.91	-0.505	-0.535	-2.475	2.475	-1.805	0.4	0.655	-33.8028	-13.1455	10.3286	61.9718	6.57277	283.568	-123.944	-480.751
12/04/2019 I	-227.909	227.91	215.75	-0.49	-0.515	-2.395	2.395	-1.755	0.4	0.645	-33.8028	-12.2066	9.38967	59.1549	5.6338	276.056	-121.127	-460.084
12/04/2019 I	-215.747	215.75	212.08	-0.475	-0.5	-2.32	2.32	-1.705	0.4	0.635	-32.8638	-11.2676	7.51174	56.338	4.69484	268.545	-119.249	-442.254
12/04/2019 I	-212.082	212.08	199.92	-0.465	-0.5	-2.3	2.3	-1.695	0.4	0.63	-32.8638	-10.3286	6.57277	53.3991	4.69484	266.667	-119.249	-437.559
12/04/2019 I	-199.92	199.92	187.26	-0.455	-0.48	-2.22	2.22	-1.64	0.4	0.625	-31.9249	-9.38967	5.6338	52.5822	3.75387	258.216	-116.432	-418.779
12/04/2019 I	-187.258	187.26	184.59	-0.44	-0.465	-2.145	2.145	-1.59	0.4	0.61	-30.9859	-8.4507	2.8169	49.7653	1.87793	250.704	-114.554	-400
12/04/2019 I	-184.593	184.59	172.10	-0.435	-0.46	-2.125	2.125	-1.58	0.4	0.61	-30.9859	-8.4507	3.75387	48.8263	1.87793	248.826	-114.554	-396.244
12/04/2019 I	-172.088	172.10	160.27	-0.425	-0.445	-2.05	2.05	-1.52	0.395	0.595	-30.0469	-7.51174	1.87793	46.0094	1.87793	240.376	-111.737	-377.465
12/04/2019 I	-160.269	160.27	148.27	-0.41	-0.43	-1.97	1.97	-1.47	0.395	0.585	-30.0469	-6.57277	0	43.1925	0.938967	232.864	-109.859	-359.624
12/04/2019 I	-148.274	148.27	138.61	-0.395	-0.415	-1.895	1.895	-1.425	0.39	0.575	-29.108	-6.57277	-0.938967	40.3756	0	225.352	-108.92	-341.784
12/04/2019 I	-138.611	138.61	129.62	-0.385	-0.405	-1.83	1.83	-1.375	0.39	0.565	-29.108	-5.6338	-1.87793	38.4977	-0.938967	218.779	-107.042	-326.761
12/04/2019 I	-129.615	129.62	128.28	-0.375	-0.395	-1.775	1.775	-1.34	0.385	0.555	-28.169	-4.69484	-2.8169	35.6808	-0.938967	212.207	-106.103	-313.615
12/04/2019 I	-128.282	128.28	64.64	-0.375	-0.395	-1.76	1.76	-1.32	0.385	0.55	-28.169	-4.69484	-3.75387	35.6808	0.938967	211.268	-105.164	-311.737
12/04/2019 I	-64.6408	64.64	9.00	-0.295	-0.33	-1.335	1.335	-1.015	0.34	0.455	-24.4131	0	-8.4507	20.6573	0	167.136	-99.5305	-210.329
12/04/2019 I	-9.9964	9.00	0.67	-0.2	-0.25	-0.9	0.9	-0.68	0.22	0.315	-19.7183	2.8169	-11.2676	9.38967	0	131.455	-98.5916	-132.394
12/04/2019 I	-0.6664	0.67	0.00	-0.14	-0.19	-0.825	0.825	-0.595	0.195	0.28	-17.8404	3.75387	-11.2676	7.51174	0	125.822	-96.7136	-122.066
12/04/2019 I	0	0.00	0.00	-0.14	-0.18	-0.81	0.81	-0.595	0.19	0.27	-17.8404	3.75387	-11.2676	7.51174	0.938967	124.883	-96.7136	-120.188
12/04/2019 I	0	0.00	0.00	-0.14	-0.18	-0.805	0.805	-0.595	0.19	0.265	-17.8404	3.75387	-11.2676	6.57277	0.938967	124.883	-97.6526	-120.188
12/04/2019 I	0	0.00	0.00	-0.135	-0.18	-0.805	0.805	-0.595	0.19	0.265	-17.8404	3.75387	-11.2676	6.57277	0.938967	124.883	-97.6526	-119.249
12/04/2019 I	0	0.00	0.00	-0.135	-0.18	-0.8	0.8	-0.58	0.19	0.26	-17.8404	2.8169	-11.2676	6.57277	0.938967	123.944	-96.7136	-119.249
12/04/2019 I	0	0.00	0.00	-0.135	-0.175	-0.795	0.795	-0.575	0.185	0.26	-17.8404	2.8169	-11.2676	6.57277	0.938967	123.944	-96.7136	-118.31
12/04/2019 I	0	0.00	0.00	-0.135	-0.175	-0.785	0.785	-0.57	0.18	0.255	-16.9014	3.75387	-11.2676	6.57277	0.938967	123.005	-97.6526	-118.31

LAMPIRAN 3. GAMBAR SETAUP PENGUJIAN

LAMPIRAN 4. GAMBAR PENGAMATAN POLA RETAK

LAMPIRAN 5. GAMBAR PENGAMATAN DATA REAL TIME PENGUJIAN

LAMPIRAN 6. DATA HASIL ANALISIS DENGAN MENGGUNAKAN

SAP 2000

The screenshot shows the 'Material Property Data' dialog box in SAP 2000. The dialog is titled 'Material Property Data' and contains several sections for defining material properties for 'Concrete'.

General Data

- Material Name and Display Color: Beton
- Material Type: Concrete
- Material Notes: Modify/Show Notes...

Weight and Mass

- Weight per Unit Volume: 23.5631
- Mass per Unit Volume: 2.4028
- Units: KN, m, C

Isotropic Property Data

- Modulus of Elasticity, E: 27805575
- Poisson, U: 0.2
- Coefficient of Thermal Expansion, A: 9.900E-06
- Shear Modulus, G: 11585656

Other Properties for Concrete Materials

- Specified Concrete Compressive Strength, f_c : 35000
- Expected Concrete Compressive Strength: 35000
- Lightweight Concrete
- Shear Strength Reduction Factor: [Empty field]

Switch To Advanced Property Display

OK Cancel

Material Property Data

General Data

Material Name and Display Color:

Material Type:

Material Notes:

Weight and Mass

Weight per Unit Volume:

Mass per Unit Volume:

Units:

Anisotropic Property Data

Modulus of Elasticity, E:

Poisson, ν :

Coefficient of Thermal Expansion, α :

Shear Modulus, G:

Other Properties for Steel Materials

Minimum Yield Stress, Fy:

Minimum Tensile Stress, Fu:

Expected Yield Stress, Fye:

Expected Tensile Stress, Fue:

Switch To Advanced Property Display















