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LAMPIRAN

- Data Produksi Semen PT. Semen Tonasa Pangkep



Data Produksi Semen Januari – Mei 2020 (Ton)

	Januari	Februari	Maret	April	Mei
Tonasa 2	48.976	49.249	41.978	35.156	25.647
Tonasa 3	52.214	53.388	53.964	27.880	35.496
Tonasa 4	189.796	186.898	85.752	189.018	100.118
Tonasa 5	237.466	118.237	237.615	208.469	144.939

Data diatas telah mengalami perlakuan khusus untuk kerahasiaan perusahaan tanpa mengubah esensi.

Pangkep, 23 Maret 2021

Adi Fatkhurrohman
Manager Perencanaan dan Evaluasi Produksi



- Data Trend Harga Jual

Harga jual bruto 2020	Januari	Februari	Maret	April	Mei	Juni	Juli	Agustus	September	Oktober	November	Desember
	777,157	709,701	752,089	734,496	657,192	646,864	718,751	674,966	698,928	653,921	702,313	739,207



- Data Biaya Produksi Semen

JANUARI 2020												
Rekening	Plant 2/3			Plant 4			Plant 5			PABRIK TOMASA DTL 4-200-5		
	Qty	Value	Rp/Ton	Qty	Value	Rp/Ton	Qty	Value	Rp/Ton	Qty	Value	Rp/Ton
121.100.0040 SEMEN PCC 200kg	103.020	37.141.877.281	364.930	127.000	34.660.219.014	273.284	238.300	77.418.888.888	324.840	468.398	149.243.184.950	367.348
Transfer material ke matriks	103.020	37.141.877.281	364.930	127.000	34.660.219.014	273.284	238.300	77.418.888.888	324.840	468.398	149.243.184.950	367.348
Biaya Transfer:	103.148	34.048.249.443	324.368	122.000	32.841.743.461	269.581	248.570	70.552.341.858	296.026	485.740	187.442.934.590	336.154
Material Consumption:	108.198	48.200.199.912	445.389	133.380	37.847.240.586	279.888	248.570	99.330.895.216	348.821	495.740	154.527.121.424	337.847
TRASS	4.889	187.770.900	38.420	12.268	959.462.327	78.313	14.839	1.182.311.249	78.187	31.432	2.910.404.981	36.784
SHRUM ALUMINUM	-	-	-	-	-	-	-	-	-	-	-	-
SHRUM SIKKULAR	-	-	-	-	-	-	-	-	-	-	-	-
FLY ASH	-	-	-	-	-	-	-	-	-	-	-	-
SHRUM SYNTHETIC ALUMINUM	4.800	1.240.960.760	258.512	9.404	1.201.771.422	127.782	11.821	2.402.107.148	203.140	21.877	8.889.840.332	236.141
ALUMINUM OXIDE	72.429	45.187.409.868	624.000	84.000	24.189.840.129	288.000	158.890	81.317.874.640	111.681	218.299	121.894.900.696	290.470
SABU-KAPUR PCCAN	22.859	1.201.048.012	52.560	32.469	804.484.228	24.780	83.809	1.891.622.222	24.789	116.936	3.687.181.442	21.617
SEMEN PCC 200kg	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Other Plant, Material	-	-	-	-	-	-	-	-	-	-	-	-
Biaya Transfer:	6.028.899.881	68.812	-	9.200.482.808	41.725	-	11.291.368.378	47.029	-	21.540.809.786	48.211	-
Saldo Awal	1.002.582	17.08	-	1.129.878	12.47	-	1.482.331	14.02	-	8.018.091	17	-
Saldo Akhir	101.618.281	6.809.68	-	643.438.124	8.228.27	-	1.910.978.984	8.014.34	-	3.278.796.681	6.894	-
Saldo Penjualan	28.184.334	249.00	-	4.467.189	18.22	-	71.942.198	84.49	-	40.296.407	61	-
Debet, Penjualan B. Amortasi	-	-	-	-	-	-	-	-	-	-	-	-
Verbaan	-	-	-	-	-	-	-	-	-	-	-	-
Utang	4.172.789.712	40.858.01	-	1.460.882.140	27.281.28	-	6.964.766.794	24.220.81	-	14.298.908.619	31.170	-
Rajan Asuransi	87.201.888	840.58	-	87.181.829	784.76	-	184.612.287	814.53	-	388.768.634	820	-
Pemeliharaan	1.889.454.221	9.786.76	-	1.082.471.482	8.387.01	-	1.280.752.687	4.534.72	-	3.128.490.511	9.781	-
Tenaga Kerja	22.077.018	216.21	-	20.424.774	160.82	-	1.898.141.817	4.427.27	-	1.888.141.817	2.282	-
Tenaga Kerja	-	-	-	-	-	-	24.128.463	122.21	-	71.838.788	183	-
Biaya Pihak:	3.092.827.439	30.017.13	-	1.842.878.812	14.492.43	-	6.884.846.844	28.812.87	-	11.600.282.240	28.195	-
Debet, Penjualan B. Amortasi	427.040.464	4.081.87	-	211.418.642	2.152.94	-	2.081.978.040	10.722.49	-	2.468.994.747	7.079	-
Amortasi Aset	-	-	-	-	-	-	-	-	-	-	-	-
Utang	-	-	-	-	-	-	-	-	-	-	-	-
Rajan Asuransi	110.510.244	1.072.54	-	82.568.523	492.68	-	381.388.208	1.482.38	-	824.784.778	1.124	-
Pemeliharaan	408.841.484	4.239.22	-	271.380.127	2.124.82	-	1.203.829.702	4.234.48	-	1.740.278.634	2.722	-
Tenaga Kerja	1.494.191.549	14.712.91	-	889.349.619	4.812.48	-	2.776.499.829	9.181.16	-	4.488.347.016	9.336	-
Utang Utang Lain	662.324.427	6.482.88	-	107.840.576	2.887.11	-	784.821.721	2.168.89	-	1.884.664.724	2.381	-



FEBRUARI 2020									
Material	Plant 1/3			Plant 4			Plant 5		
	Qty	Value	Rp/Tan	Qty	Value	Rp/Tan	Qty	Value	Rp/Tan
121-302-0040-SEKWA PCC CURAH	104.825	46.406.324.046	447.460	107.339	47.567.182.925	546.350	100.890	95.264.264.651	422.363
Perubahan Aset									
Harga Pokok Pekerjaan	104.825	46.406.324.046	447.460	107.339	47.567.182.925	546.350	118.458	90.584.847.605	425.233
Transfer material to material									
Biaya Variabel:	108.929	42.225.720.551	412.158	128.895	37.921.584.843	314.501	124.484	42.117.589.018	362.461
Material Consumption:	108.929	37.675.141.564	359.380	128.895	31.609.321.421	262.738	124.484	34.978.162.676	290.676
TRASS	5.232	428.400.553	80.294	10.497	842.818.332	80.294	6.534	526.232.916	80.294
GYPSUM PLUMED	-	-	-	-	-	-	-	-	-
GYPSUM GRANULAR	-	-	-	-	-	-	-	-	-
PLY ADH	-	-	-	-	-	-	-	-	-
GYPSUM SYNTHETIC PLUMED	5.247	1.248.400.609	237.272	5.218	1.241.878.623	237.214	5.140	1.270.178.877	247.104
KUNCIER OPC	72.116	34.796.478.849	482.088	81.724	38.278.817.809	468.027	84.427	31.721.270.695	378.726
BATU KAPUR PECAH	26.246	1.129.842.146	43.049	28.888	1.146.026.636	40.128	28.264	1.060.478.488	37.288
SEKWA PCC CURAH	-	-	-	-	-	-	-	-	-
Transfer Other Plant/ Material	-	-	-	16.800	6.745.887.070	39.965	11.808	4.698.427.047	392.747
Biaya Operasional:	5.532.586.886	92.778		6.311.763.423	92.262		6.539.426.242	71.785	
Bahan Bakar	27.467.133	287.42		24.188.811	208.42		42.168.825	354.46	
Bahan Baku	177.421.183	1.692.30		583.385.162	4.840.56		1.478.998.286	12.441.37	
Bahan Peningkat	1.084.897	487.28		487.281	2.79		1.084.897	9.12	
Deplek, Penyusutan & Amortisasi	-	-		-	-		-	-	
Konsumen	-	-		-	-		-	-	
Loose	4.327.812.294	41.284.87		5.070.766.561	42.067.59		4.974.078.696	38.480.71	
Pajak Asuransi	84.248.878	800.69		106.418.699	880.87		167.526.066	1.408.26	
Pemeliharaan	881.521.645	8.409.21		803.289.780	4.178.92		2.254.827.261	18.702.64	
Pemakaian	-	-		-	-		-	-	
Tenaga Kerja	23.052.781	219.72		20.718.207	171.86		49.787.899	418.62	
Biaya Tetap:	3.700.945.484	28.301.57		2.849.711.012	24.056.24		7.487.258.566	62.772.28	
Deplek, Penyusutan & Amortisasi	642.478.260	6.128.88		560.842.820	2.982.59		2.977.820.102	21.867.50	
Kapabilitas Aset	-	-		-	-		-	-	
Loose	-	-		-	-		-	-	
Pajak Asuransi	111.168.822	1.060.46		78.954.724	662.21		284.338.794	2.880.88	
Pemeliharaan	566.304.826	5.402.22		204.810.761	1.699.12		281.181.305	7.491.40	
Tenaga Kerja	1.712.264.120	16.234.98		1.462.060.828	12.295.60		2.454.728.789	20.288.11	
Utang Umum Adm.	668.282.736	6.378.00		772.009.472	6.404.67		1.229.227.417	10.222.28	



MARET 2020								
Material	Plant 3/3		Plant 4			Plant 5		
	Value	Rp/Ton	Qty	Value	Rp/Ton	Qty	Value	Rp/Ton
11-102-0040 SEMEN PCC CURAH	34,004,154,027	433,083	44,614	23,450,497,143	536,836	237,072	80,533,263,021	339,700
Expenditur Awal								
Marga Pokok Pabrikasi	34,004,154,027	433,083	44,614	23,450,497,143	536,836	237,072	80,533,263,021	339,700
Transfer material to material								
Biaya Variabel:	31,910,178,238	403,172	46,948	21,887,495,498	490,595	247,649	73,428,510,445	304,718
Material Consumen:	28,787,904,412	342,495	46,948	18,544,405,470	418,661	247,649	62,191,510,338	262,784
TRASS	424,001,581	90,188	3,471	313,911,082	90,398	16,768	1,428,495,783	90,811
GYPSUM PURIFIED								
GYPSUM GRANULAR								
FLY ASH								
GYPSUM SYNTHETIC PURIFIED	950,963,769	231,448	1,964	501,101,189	234,948	11,593	2,922,678,797	252,108
KLINKER OPC	24,847,508,723	488,185	30,060	16,979,730,998	564,889	188,218	88,810,438,958	333,078
SATU KAPUR PECAH	749,400,339	28,633	11,470	749,590,231	65,351	62,050	2,069,959,882	33,388
SEMENT PCC CURAH								
Transfer Diker-Rans: Material								
Biaya Operasional:	4,743,273,827	60,677		1,343,090,028	74,933		11,134,000,055	46,945
Bahan Bakar	56,537,863	723,40		2,491,622	78,26		8,722,562	26,79
Bahan Baku	831,713,219	6,803,21		423,262,349	9,487,36		946,810,039	2,988,33
Bahan Peningkat	3,218,610	42,44		1,478,420	33,34		4,183,551	17,52
Depresi, Penyusutan & Amortisasi								
Kemasan								
Lisensi	1,578,112,419	45,781,91		2,116,276,701	47,428,02		8,752,738,982	26,924,47
Pajak Aduan	56,811,954	726,91		79,863,783	1,700,44		142,825,486	461,23
Pemeliharaan	282,628,299	4,514,43		514,687,568	11,536,40		829,894,562	2,900,40
Pemgasaan	140,463,078	1,797,22		188,382,008	4,232,22		282,645,000	1,487,80
Tenaga Kerja	22,490,542	287,77		19,747,608	442,63		97,539,572	411,43
Biaya Tetap:	2,493,978,888	31,910,39		2,043,001,845	46,240,90		7,107,782,587	29,981,43
Depresi, Penyusutan & Amortisasi	476,627,189	6,096,44		278,785,927	6,248,80		2,588,898,118	10,920,14
Kapitalisasi Aset								
Lisensi								
Pajak Aduan	88,242,388	1,129,68		66,812,279	1,497,36		283,286,208	1,490,22
Pemeliharaan	837,188,730	6,870,90		523,593,262	11,889,31		1,109,688,717	4,680,81
Tenaga Kerja	1,073,429,477	13,724,82		799,540,088	17,821,19		2,219,937,194	9,788,80
Unsur Umum Adm.	318,820,967	4,078,47		384,308,392	8,614,03		728,980,349	3,104,46



APRIL 2020										
Material	Rp/Ton	Plant 3/3			Plant 4			Plant 5		
		Qty	Value	Rp/Ton	Qty	Value	Rp/Ton	Qty	Value	Rp/Ton
121.003.0040 SEMEN PCC CURAN		64.734	29.349.973.510	452.294	137.364	54.139.082.288	294.108	207.390	71.293.303.237	343.774
Transfer material ke material		64.734	29.349.973.510	452.294	137.364	54.139.082.288	294.108	207.390	71.293.303.237	343.774
Biaya Variabel		64.301	29.079.437.311	407.844	143.991	51.073.609.101	271.815	215.413	64.944.058.141	311.221
Material Consumption		64.301	29.079.437.311	407.844	143.991	51.073.609.101	271.815	215.413	64.944.058.141	311.221
TRASS		3.701	344.934.913	90.534	9.749	328.237.718	40.643	12.146	1.099.793.321	60.549
GYPSUM PURIFIED										
GYPSUM GRANULAR										
PLY AGH										
GYPSUM SYNTHETIC PURIFIED		3.216	788.911.901	244.282	8.888	1.609.009.496	241.192	10.112	3.309.079.568	348.199
ALUMINA DPC		40.340	19.919.414.948	468.127	82.172	29.919.796.471	403.066	142.327	90.334.460.000	390.489
BATU KAPUR RECAH		17.841	777.616.708	43.587	36.809	1.190.117.022	21.940	49.820	1.368.133.420	27.394
SEMENT PCC CURAN										
Transfer Other Plant/ Material										
Biaya Operasional			4.242.649.240	66.318		7.970.461.847	55.114		9.335.029.937	48.012
Bahan Bakar			91.371.686	1.440.70		25.497.655	189.22		26.191.376	176.44
Bahan Batu			389.675.531	9.937.85		790.658.149	5.769.99		999.042.208	4.797.91
Bahan Penolong			22.826.155	394.97		6.707.497	49.81		15.021.189	62.79
Deposi, Penyulutan & Amortisasi										
Kapasitas										
Uang			2.044.894.754	47.027.00		5.736.225.220	41.799.48		7.912.380.411	36.322.40
Rajan Asuransi			96.112.229	1.485.36		148.027.794	1.082.92		192.806.412	929.68
Reparasi			610.116.246	9.429.12		307.324.226	3.877.38		489.162.287	2.329.38
Perbaikan										
Perawatan										
Tenaga Kerja			28.902.440	402.19		88.293.419	402.26		100.023.491	482.30
Biaya Tetap			3.132.948.198	51.469.74		3.063.281.197	22.293.04		6.791.249.069	22.951.38
Deposi, Penyulutan & Amortisasi			619.619.347	9.970.34		426.249.190	3.102.04		2.374.441.064	12.412.92
Kapasitas										
Uang										
Rajan Asuransi			110.910.044	1.707.14		96.690.851	702.90		281.288.258	1.702.80
Reparasi			471.798.006	10.177.83		628.446.866	4.647.26		864.691.105	4.199.29
Perbaikan			1.426.609.674	22.028.04		1.201.445.828	9.489.02		2.142.877.024	10.122.29
Tenaga Kerja										
Uang Umum Kam			801.971.027	7.194.40		597.424.429	4.349.22		819.647.719	2.934.26



MEI 2020									
Material	Plant 2/3			Plant 4			Plant 5		
	Qty	Value	Rp/Ton	Qty	Value	Rp/Ton	Qty	Value	Rp/Ton
121.001.0000 SEMEN PCC CURAH	58,372	24.957.827,523	427,566	84,602	25.519.932,770	301,647	143,483	44.159.467,916	309,163
Prosedur Awal									
Harga Pokok Pembelian	58,372	24.957.827,523	427,566	84,602	25.519.932,770	301,647	143,483	44.159.467,916	309,163
Transfer material to material									
Biaya Variabel:	60,712	22.927.828,865	392,789	89,503	24.314.458,020	287,398	150,729	40.283.109,330	280,752
Material Consumption:	60,712	19.064.304,332	324,942	89,503	19.144.554,912	226,288	180,709	33.079.330,548	230,848
TRASS	2,440	220.887,282	90,532	6,299	569.924,707	90,532	17,329	1.028.100,799	90,510
GYPSUM PURIFIED	-	-	-	-	-	-	-	-	-
GYPSUM GRAKULAR	-	-	-	-	-	-	-	-	-
FLY ASH	-	-	-	-	-	-	-	-	-
GYPSUM SYNTHETIC PURIFIED	2,118	695.824,607	328,406	3,996	811.736,565	203,167	6,902	1.560.720,859	226,102
KILINDER OPC	40,204	17.308.680,109	430,492	55,395	17.015.182,608	306,939	96,831	29.469.468,344	304,329
BATU KAPUR PECAH	14,954	655.822,244	44,059	22,617	647.690,022	27,425	26,069	1.022.930,742	28,706
SEMEN PCC CURAH									
Transfer Other Plant Material									
Biaya Operasional:		1.843.624,933	65,847		3.169.903,108	61,108		7.203.878,786	60,207
Bahan Bakar		81.618,148	1.059,56		23.023,478	286,90		36.308,232	252,05
Bahan Baku		226.415,284	5.591,89		1.197.895,029	14.185,62		1.002.494,383	6.986,52
Bahan Penolong		2.074,893	35,54		1.100,733	26,89		5.099,269	35,54
Deplesi, Penyusutan & Amortisasi		-	-		-	-		-	-
Kemasan		-	-		-	-		-	-
Lisensi		2.681.341,138	48.928,81		3.606.223,092	40.628,70		4.870.179,908	54.629,89
Rajak Asuransi		6.422,452	110,21		10.818,273	127,84		12.923,862	90,07
Perbaikan		740.849,106	12.688,46		504.244,246	3.596,18		1.142.278,843	7.961,07
Pemeliharaan		-	-		-	-		-	-
Tenaga Kerja		24.896,013	426,51		22.871,204	270,24		24.647,271	241,49
Biaya Tetap:		2.029.998,657	34,776,89		1.305.494,750	14,248,99		4.076.358,566	29,410,11
Deplesi, Penyusutan & Amortisasi		614.892,518	10.530,84		479.464,782	5.667,29		2.418.615,879	18.228,49
Kapitalisasi Aset		-	-		-	-		-	-
Lisensi		-	-		-	-		-	-
Rajak Asuransi		110.510,044	1.892,21		108.401,875	1.248,85		252.288,208	2.462,24
Perbaikan		777.814,885	13.225,16		708.464,797	8.228,62		832.813,608	6.822,14
Tenaga Kerja		186.000,472	3.287,84		(501.295,344)	(5.950,19)		(319.987,212)	(2.369,54)
Utang Umum Adm.		330.978,771	5.670,14		418.961,620	4.947,41		511.628,124	3.568,78



- Surat Izin Melakukan Penelitian dari Pihak Tonasa



PT SEMEN TONASA
SEMENTEN INDONESIA GROUP

Nomor : 0000199/PP.00/E/50010157/4000/03.2021

Lampiran : 2 berkas

Perihal : **Penelitian Online An. Prasesty (FMIFA-UNHAS)**

Pangkep, 6 Maret 2021

Yang Terhormat,
Dr. Nurdin, S.Si., M.Si.
Ketua Departemen Matematika Fakultas MIFA
UNIVERSITAS HASANUDDIN
Jl.Perintis Kemerdekaan Km. 10 Tamalanrea, Makassar

Dengan hormat,
Menunjuk surat dari Universitas Hasanuddin No. 685 /UN4.11.7/HM.01.01/2021 tanggal 15 Januari 2021 perihal Permohonan Penelitian Online, dengan ini kami sampaikan bahwa permohonan tersebut dapat **disetujui** terhadap mahasiswa/i berikut ini :

Nama : Prasesty
Stambuk : 11171508
Jurusan : Matematika
Judul Penelitian : "**Penerapan Program Dinamika**

Deterministik dan Probabilistik Untuk Memperoleh Keuntungan Optimal Dalam Pendistribusian Semen Periode Januari - Mei 2020 ."

Diharapkan kepada Mahasiswa yang bersangkutan mempersiapkan **Proposal/Questioner** dan alat pengumpulan data lainnya sebelum melaksanakan Penelitian pada bulan Maret **2021**
Korespondensi dilakukan hanya melalui alamat email : **kp.st@sig.id (PIC.Djumhari Contact 08114453355)** dan tidak melayani surat menyurat Via Pos. Untuk itu agar setiap **Institusi** mencantumkan alamat email yang jelas & menunjuk penanggung jawab **KP/Magang/Penelitian** sebagai **PIC**.

Demikian disampaikan, atas perhatiannya disampaikan ucapan terima kasih.

PT Semen Tonasa
SM of HC Operational



Approved by System
H. ILYAS HM, Ir.

Tembusan

:

1. GM of Maintenance
2. Senior Manager of Retail Sales Support PT. Semen Indonesia
3. HC Business Patner Officer PT. Semen Indonesia

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