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LAMPIRAN

LAMPIRAN 1

Lampiran 1 berisi profil Perusahaan PT Honda Makassar Indah

PT. Makassar Indah Motor atau lebih dikenal dengan Honda Makassar Indah didirikan pada tgl 21 September 1992. Honda Makassar Indah ini pertama kali didirikan oleh Bpk. John Hamdja namun beliau memberikan hak kuasa kepada Bpk. Robert Hamdja. Honda Makassar Indah memulai usaha sebagai *dealer* resmi mobil Honda yang bertempat di Jl. Gunung Bawakaraeng No. 85 Makassar.

Pada tahun 2005, Honda Makassar Indah mengembangkan usahanya di bidang *Body & Paint* dan membuka bengkel *Body & Paint* yang bertempat di Jl. Arif Rahman Hakim No. 125 Makassar dimana bengkel *Body & Paint* tersebut didirikan oleh Bpk. Johan Hamdja. Bpk Johan Hamdja adalah saudara laki-laki dari Bpk. Robert Hamdja

Pada tahun 2015 Honda Makassar Indah merenovasi bengkel yang berada di Jl. Arif Rahman Hakim No. 125 makassar. Dimana Honda Makassar Indah menggabungkan *Service, Spare Part, dan Body & Paint*. Namun Honda Makassar Indah yang Di Jl. Gunung Bawakaraeng No. 85 Makassar berfokus pada penjualan saja.

Seiring dengan berkembangnya daerah di sekitar kota Makassar, Honda Makassar Indah memperluas pemasaran mobil Honda ke beberapa daerah

1. Pada Tahun 2015 Honda Makassar Indah membuka cabang di Pare-Pare yang bertempat di Jl. Soreang, Pare-Pare.
2. Pada Tahun 2015 Honda Makassar Indah juga membuka cabang di Bone yang bertempat di Jl. Ahmad Yani, Bone
3. Pada Tahun 2016 Honda Makassar Indah membuka cabang di Bulukumba yang bertempat di Jl. Sam Ratulangi, Bulukumba
4. Pada Tahun 2017 Honda Makassar Indah membuka lagi cabang di sengkang yang bertempat di Jl. Andi ninong, sengkang.

Honda Makassar Indah merupakan salah satu unit bisnis Honda Makassar Indah yang beroperasi di bawah PT. Makassar Indah Motor dimana Honda Makassar Indah bekerja sama dengan Honda *Prospect* Motor. Sebagai salah satu *dealer* resmi Honda di Makassar yang bergerak dalam bidang Penjualan, *Service*, *Spare Part & Body & Paint*, Honda Makassar Indah hadir dengan berbagai fasilitas yang lengkap dan nyaman. *Team* Honda Makassar yang terdiri dari wiraniaga-wiraniaga dan mekanik-mekanik terlatih selalu siap memberikan pelayanan yang terbaik bagi para pelanggan Honda. Hal ini terbukti dengan berbagai pengakuan dan penghargaan yang diterima dari PT. Honda *Prospect* Motor.

LAMPIRAN 2

Lampiran 2 berisi data hasil perhitungan Analisis ABC Honda Brio tahun 2020.

Tabel 1. Hasil Analisis ABC Spare Part Honda Brio PT Makassar Indah

No.	No. Material	Nama Material	Harga/Unit	Penggunaan/ Tahun	Penggunaan Tahunan	Kumulatif penggunaan Tahunan	%Kumulatif penggunaan Tahunan	Kelas
1	71101-TG1-T10ZZ	FACE_FR BUMPER	Rp. 731.860	143	Rp. 104.655.980	Rp. 104.655.980	9,84	A
2	50820-TG4-T02	MTG,ENG SIDE(MT)	Rp. 384.060	229	Rp. 87.949.740	Rp. 192.605.720	18,1	A
3	45022-TG1-T00	SET_PAD FR	Rp. 408.000	215	Rp. 87.720.000	Rp. 280.325.720	26,34	A
4	53040-TG4-U11	G/BOX COMP,STRG	Rp. 3.458.020	23	Rp. 79.534.460	Rp. 359.860.180	33,82	A
5	71120-TG1-T11	GRILLE ASSY,FR	Rp. 1.042.660	55	Rp. 57.346.300	Rp. 417.206.480	39,21	A
6	51391-TG4-T01	BUSH LOW ARM	Rp. 272.727	179	Rp. 48.818.133	Rp. 466.024.613	43,79	A
7	73101-TG4-U01	GLASS, FR WINDSHIELD	Rp. 572.360	80	Rp. 45.788.800	Rp. 511.813.413	48,1	A
8	60100-TG1-T01ZZ	HOOD COMP	Rp. 1.438.560	25	Rp. 35.964.000	Rp. 547.777.413	51,48	A
9	60100-TG4-T00ZZ	HOOD COMP	Rp. 1.438.560	24	Rp. 34.525.440	Rp. 582.302.853	54,72	A
10	71101-TG4-U50ZZ	FACE,FR BUMPER	Rp. 731.860	30	Rp. 21.955.800	Rp. 604.258.653	56,79	A
11	33551-TG1-T51	LAMP UNIT, L	Rp. 384.060	44	Rp. 16.898.640	Rp. 621.157.293	58,37	A
12	76208-TG4-U11	SET RH-R,MIR ASSY	Rp. 463.240	36	Rp. 16.676.640	Rp. 637.833.933	59,94	A
13	71130-TG4-U10ZZ	BEAM COMP,FR BPR	Rp. 856.920	19	Rp. 16.281.480	Rp. 654.115.413	61,47	A
14	51920-TG4-T01	MT RUB DAMPER FR	Rp. 121.360	134	Rp. 16.262.240	Rp. 670.377.653	63	A
15	71501-TG4-U00ZZ	FACE,RR BUMPER	Rp. 521.700	31	Rp. 16.172.700	Rp. 686.550.353	64,52	A
16	73211-TG4-U22	SET_RR WSHLD GLAS(WIPER)	Rp. 512.500	31	Rp. 15.887.500	Rp. 702.437.853	66,01	A
17	33100-TG4-T01	LIGHT ASSY,R HEAD	Rp. 413.660	38	Rp. 15.719.080	Rp. 718.156.933	67,49	A
18	80110-TG4-T01	CONDENSER COMP	Rp. 776.700	20	Rp. 15.534.000	Rp. 733.690.933	68,95	A
19	42751-TG4-K02	TIRE,185/55R15	Rp. 1.171.000	12	Rp. 14.052.000	Rp. 747.742.933	70,27	A

Lanjutan Tabel 1

20	33150-TG4-T01	LIGHT ASSY,L HEAD	Rp. 413.536	33	Rp. 13.646.699	Rp. 761.389.632	71,55	A
21	71501-TG4-T00ZZ	FACE,RR BUMPER	Rp. 506.160	26	Rp. 13.160.160	Rp. 774.549.792	72,79	A
22	35010-TG4-K41	SET KEY CYLINDER	Rp. 1.441.520	9	Rp. 12.973.680	Rp. 787.523.472	74,01	A
23	42751-TG4-T04	TIRE,175/65R14 DUNLOP	Rp. 474.300	26	Rp. 12.331.800	Rp. 799.855.272	75,17	A
24	33501-TG1-T51	LAMP UNIT, R	Rp. 215.340	56	Rp. 12.059.040	Rp. 811.914.312	76,3	A
25	33550-TG4-T51	LIGHT ASSY_L TAIL	Rp. 296.000	36	Rp. 10.656.000	Rp. 822.570.312	77,3	A
26	51611-TG4-T02	DAMPER UNIT,R FR	Rp. 440.340	24	Rp. 10.568.160	Rp. 833.138.472	78,29	A
27	76258-TG4-U11	SET RH-L,MIR ASSY	Rp. 430.680	24	Rp. 10.336.320	Rp. 843.474.792	79,27	A
28	33500-TG4-T51	LIGHT ASSY_R TAIL	Rp. 296.000	32	Rp. 9.472.000	Rp. 852.946.792	80,16	A
29	51350-TG4-K00	LWRARMASSY,RFR	Rp. 370.740	24	Rp. 8.897.760	Rp. 861.844.552	80,99	B
30	51611-TG4-T12	DAMPER UNIT,R FR	Rp. 440.340	20	Rp. 8.806.800	Rp. 870.651.352	81,82	B
31	51360-TG4-K00	LWRARMASSY,LFR	Rp. 370.740	23	Rp. 8.527.020	Rp. 879.178.372	82,62	B
32	67510-TG4-U10ZZ	PANEL COMP_R RR DSH	Rp. 2.109.740	4	Rp. 8.438.960	Rp. 887.617.332	83,41	B
33	67550-TG4-T00ZZ	PANEL COMP_L RR DOOR	Rp. 1.236.540	6	Rp. 7.419.240	Rp. 895.036.572	84,11	B
34	33501-TG4-T01	LAMP UNIT,R	Rp. 215.340	33	Rp. 7.106.220	Rp. 902.142.792	84,78	B
35	42751-TG4-T03	TIRE,175/65R14 ACHIL	Rp. 464.100	15	Rp. 6.961.500	Rp. 909.104.292	85,43	B
36	71103-TG1-T00	GRILLE FR BUMPER R	Rp. 106.560	61	Rp. 6.500.160	Rp. 915.604.452	86,04	B
37	71502-TG4-T90	GARN_RR BPR	Rp. 275.280	23	Rp. 6.331.440	Rp. 921.935.892	86,64	B
38	46401-TG4-3060	MASTER PWR BRIO	Rp. 198.320	31	Rp. 6.147.920	Rp. 928.083.812	87,22	B
39	33551-TG4-T01	LAMP UNIT,L	Rp. 215.340	28	Rp. 6.029.520	Rp. 934.113.332	87,78	B
40	71121-TG4-T01	BASE_FR GRILLE	Rp. 93.980	58	Rp. 5.450.840	Rp. 939.564.172	88,3	B
41	71122-TG4-T91	MLDG_FR GRILLE	Rp. 222.000	23	Rp. 5.106.000	Rp. 944.670.172	88,78	B
42	71501-TG4-T90ZZ	FACE,RR BUMPER	Rp. 506.160	10	Rp. 5.061.600	Rp. 949.731.772	89,25	B
43	71110-TG1-T00	AIR SPOILER,FR BPR	Rp. 304.880	15	Rp. 4.573.200	Rp. 954.304.972	89,68	B

Lanjutan Tabel 1

44	42700-TG4-T71	WHEEL_DISK AL 14XAR	Rp. 904.460	5	Rp. 4.522.300	Rp. 958.827.272	90,11	B
45	71850-TG4-T01ZC	GARN ASSY L,SIDE SILL T99	Rp. 379.620	11	Rp. 4.175.820	Rp. 963.003.092	90,5	B
46	76208-TG1-T31	SET RH-R_R/C MIR	Rp. 463.240	9	Rp. 4.169.160	Rp. 967.172.252	90,89	B
47	45251-TG4-T10	DISK,FR BRAKE 240MM	Rp. 241.080	17	Rp. 4.098.360	Rp. 971.270.612	91,27	B
48	42200-TG1-T51	BEARING ASSY,RR HUB UNIT	Rp. 680.850	6	Rp. 4.085.100	Rp. 975.355.712	91,66	B
49	74101-TG4-U00	FENDER R,FR INN	Rp. 123.580	32	Rp. 3.954.560	Rp. 979.310.272	92,03	B
50	91505-TG1-T01	CLIP,BPR A	Rp. 17.020	229	Rp. 3.897.580	Rp. 983.207.852	92,4	B
51	76622-TG1-T01	BLADE RUBBER WIPER	Rp. 228.660	17	Rp. 3.887.220	Rp. 987.095.072	92,76	B
52	74151-TG1-T10	FENDER L_FR INN	Rp. 123.580	31	Rp. 3.830.980	Rp. 990.926.052	93,12	B
53	76622-TG1-T01L	BLADE RUBBER BRIO1.2(550MM)	Rp. 59.940	62	Rp. 3.716.280	Rp. 994.642.332	93,47	B
54	80410-TG1-T11ZA	SW ASSY_AIRCON	Rp. 156.140	23	Rp. 3.591.220	Rp. 998.233.552	93,81	B
55	74151-TG4-U00	FENDER L,FR INN	Rp. 123.580	29	Rp. 3.583.820	Rp. 1.001.817.372	94,15	B
56	08F01-TG1-700A	FR BPR GARNISH SE17	Rp. 3.568.280	1	Rp. 3.568.280	Rp. 1.005.385.652	94,48	B
57	74101-TG1-T10	FENDER R_FR INN	Rp. 123.580	28	Rp. 3.460.240	Rp. 1.008.845.892	94,81	B
58	53040-TG4-W11	G/BOX COMP,STRG	Rp. 3.458.020	1	Rp. 3.458.020	Rp. 1.012.303.912	95,13	B
59	53410-TG4-003	RACK END COMP	Rp. 201.280	17	Rp. 3.421.760	Rp. 1.015.725.672	95,45	B
60	42751-TG4-T00	TIRE,175/65R14 GYI	Rp. 497.250	6	Rp. 2.983.500	Rp. 1.018.709.172	95,73	C
61	71193-TG1-T01	SPACER R_FR BPR SIDE	Rp. 41.440	64	Rp. 2.652.160	Rp. 1.021.361.332	95,98	C
62	60120-TG1-T00ZZ	HINGE COMP R_HOOD	Rp. 131.720	19	Rp. 2.502.680	Rp. 1.023.864.012	96,22	C
63	04646-TG4-T00ZZ	PANEL SET L_RR OUDE	Rp. 1.238.020	2	Rp. 2.476.040	Rp. 1.026.340.052	96,45	C
64	60170-TG1-T00ZZ	HINGE COMP L_HOOD	Rp. 131.720	18	Rp. 2.370.960	Rp. 1.028.711.012	96,67	C
65	71198-TG1-T01	SPACER L_FR BPR SIDE	Rp. 41.440	55	Rp. 2.279.200	Rp. 1.030.990.212	96,89	C
66	18220-TG4-T01	PIPE B_EXHAUST	Rp. 1.038.120	2	Rp. 2.076.240	Rp. 1.033.066.452	97,08	C
67	52610-TG4-K02	DAMPER ASSY,RR	Rp. 321.440	6	Rp. 1.928.640	Rp. 1.034.995.092	97,26	C

Lanjutan Tabel 1

68	71105-TG1-T00	GARN R FR FOG	Rp. 42.920	44	Rp. 1.888.480	Rp. 1.036.883.572	97,44	C
69	75490-TG4-K00	GARN ASSY_R FR PLR	Rp. 163.540	11	Rp. 1.798.940	Rp. 1.038.682.512	97,61	C
70	18307-TG4-T01	SLNCR COMP_EXH.	Rp. 880.680	2	Rp. 1.761.360	Rp. 1.040.443.872	97,78	C
71	73125-TG1-T00	RUBBER,FR WSHLD DAM A	Rp. 30.340	56	Rp. 1.699.040	Rp. 1.042.142.912	97,94	C
72	71123-TG4-T01	COVER_FR GRILLE DUCT	Rp. 59.940	28	Rp. 1.678.320	Rp. 1.043.821.232	98,09	C
73	34270-TG4-T01	LIGHT ASSY,H/M ST	Rp. 417.360	4	Rp. 1.669.440	Rp. 1.045.490.672	98,25	C
74	17045-TG4-T00	17045-TG4-T01	Rp. 1.635.400	1	Rp. 1.635.400	Rp. 1.047.126.072	98,4	C
75	76203-TG1-T01	SET RH-R_MIR SUB	Rp. 102.860	15	Rp. 1.542.900	Rp. 1.048.668.972	98,55	C
76	04655-TG4-T00ZZ	PANEL SET_RR FLR NT OUTSIDE	Rp. 1.424.500	1	Rp. 1.424.500	Rp. 1.050.093.472	98,68	C
77	71109-TG1-T00	GARN L FR FOG	Rp. 42.920	33	Rp. 1.416.360	Rp. 1.051.509.832	98,82	C
78	76258-TG1-T31	SET RH-L_R/C MIR	Rp. 463.240	3	Rp. 1.389.720	Rp. 1.052.899.552	98,95	C
79	71104-TG1-T10ZA	COVER_FR TOWING H	Rp. 37.000	37	Rp. 1.369.000	Rp. 1.054.268.552	99,07	C
80	04636-TG4-T00ZZ	PANEL SET R_RR OUDE	Rp. 1.238.020	1	Rp. 1.238.020	Rp. 1.055.506.572	99,19	C
81	74900-TG4-T90ZC	SPOILER ASSY,T/GATE T99	Rp. 609.020	2	Rp. 1.218.040	Rp. 1.056.724.612	99,31	C
82	51211-TG4-T10	KNUCKLE,R FR NON ABS	Rp. 223.860	4	Rp. 895.440	Rp. 1.057.620.052	99,39	C
83	71593-TG1-T01	SPACER R_RR BPR S	Rp. 72.520	12	Rp. 870.240	Rp. 1.058.490.292	99,47	C
84	47510-TG4-T51	47510-TG4-T52	Rp. 185.000	4	Rp. 740.000	Rp. 1.059.230.292	99,54	C
85	71504-TG4-T90	COVER_RR TOWING HIDE	Rp. 32.560	17	Rp. 553.520	Rp. 1.059.783.812	99,59	C
86	76251-TG4-U01ZB	SKULLCAP L *T99*	Rp. 62.160	8	Rp. 497.280	Rp. 1.060.281.092	99,64	C
87	76802-TG1-T11	MOUTH CAP	Rp. 34.780	12	Rp. 417.360	Rp. 1.060.698.452	99,68	C
88	47560-TG4-T11	47560-TG4-T12	Rp. 185.000	2	Rp. 370.000	Rp. 1.061.068.452	99,71	C
89	74551-TG1-T00	COVER R,RR FENDER	Rp. 71.780	5	Rp. 358.900	Rp. 1.061.427.352	99,75	C
90	91506-TG1-T01	CLIP,BPR B	Rp. 51.060	7	Rp. 357.420	Rp. 1.061.784.772	99,78	C

Lanjutan Tabel 1

91	39120-TG4-YA1	SPKR ASSY 17CM SINGLE CONE	Rp. 151.700	2	Rp. 303.400	Rp. 1.062.088.172	99,81	C
92	74141-TG1-T00	INSULATOR,HOOD	Rp. 298.220	1	Rp. 298.220	Rp. 1.062.386.392	99,84	C
93	04611-TG1-T00ZZ	PANEL SET_L BHD ACC	Rp. 292.300	1	Rp. 292.300	Rp. 1.062.678.692	99,87	C
94	51925-TG1-T01	DAMPER COMP., REBOUND STOP	Rp. 65.120	4	Rp. 260.480	Rp. 1.062.939.172	99,89	C
95	71104-TG1-T00	COVER_FR TOWING HT	Rp. 36.260	6	Rp. 217.560	Rp. 1.063.156.732	99,91	C
96	74591-TG4-T00	COVER L_RR FENDER	Rp. 71.780	3	Rp. 215.340	Rp. 1.063.372.072	99,93	C
97	33301-TG1-T01	BULB S25 AMBER URN	Rp. 42.920	5	Rp. 214.600	Rp. 1.063.586.672	99,95	C
98	38100-TG1-T01	HORN ASSY(LOW)	Rp. 68.080	3	Rp. 204.240	Rp. 1.063.790.912	99,97	C
99	74901-TG4-T90	COVER ASSY_T/GATELWR	Rp. 85.100	2	Rp. 170.200	Rp. 1.063.961.112	99,99	C
100	74212-TG4-U00	COVER R,HOOD HINGE	Rp. 19.240	8	Rp. 153.920	Rp. 1.064.115.032	1	C

(Sumber: Hasil Pengolahan Data)

LAMPIRAN 3

Lampiran 3 berisi data hasil perhitungan Analisis FSN Honda Brio tahun 2020.

Tabel 2. Hasil Analisis FSN Spare Part Honda Brio PT Makassar Indah

No.	No. Material	Nama Mterial	Persediaan Awal	Persediaan Akhir	Permintaan Tahunan	Persediaan Rata-rata	Turn Over	Kelas
1	71109-TG1-T00	GARN L FR FOG	0	1	33	0,5	66,00	F
2	33150-TG4-T01	LIGHT ASSY,L HEAD	0	1	33	0,5	66,00	F
3	71123-TG4-T01	COVER_FR GRILLE DUCT	0	1	28	0,5	56,00	F
4	51350-TG4-K00	LWRARMASSY,RFR	0	1	24	0,5	48,00	F
5	80110-TG4-T01	CONDENSER COMP	0	1	20	0,5	40,00	F
6	71121-TG4-T01	BASE_FR GRILLE	2	1	58	1,5	38,67	F
7	33100-TG4-T01	LIGHT ASSY,R HEAD	1	1	38	1	38,00	F
8	71120-TG1-T11	GRILLE ASSY,FR	2	1	55	1,5	36,67	F
9	71504-TG4-T90	COVER_RR TOWING HIDE	1	0	17	0,5	34,00	F
10	46401-TG4-3060	MASTER PWR BRIO	0	2	31	1	31,00	F
11	71110-TG1-T00	AIR SPOILER,FR BPR	0	1	15	0,5	30,00	F
12	60100-TG4-T00ZZ	HOOD COMP	0	2	24	1	24,00	F
13	51391-TG4-T01	BUSH LOW ARM	7	9	179	8	22,38	F
14	71103-TG1-T00	GRILLE FR BUMPER R	4	2	61	3	20,33	F
15	71101-TG4-U50ZZ	FACE,FR BUMPER	2	1	30	1,5	20,00	F
16	71501-TG4-T90ZZ	FACE,RR BUMPER	0	1	10	0,5	20,00	F
17	60120-TG1-T00ZZ	HINGE COMP R_HOOD	1	1	19	1	19,00	F
18	33550-TG4-T51	LIGHT ASSY_L TAIL	1	3	36	2	18,00	F
19	33500-TG4-T51	LIGHT ASSY_R TAIL	2	2	32	2	16,00	F
20	71501-TG4-U00ZZ	FACE,RR BUMPER	3	1	31	2	15,50	F
21	53040-TG4-U11	G/BOX COMP,STRG	2	1	23	1,5	15,33	F
22	71122-TG4-T91	MLDG_FR GRILLE	1	2	23	1,5	15,33	F
23	71502-TG4-T90	GARN_RR BPR	1	2	23	1,5	15,33	F
24	71105-TG1-T00	GARN R FR FOG	5	1	44	3	14,67	F
25	71501-TG4-T00ZZ	FACE,RR BUMPER	2	2	26	2	13,00	F
26	71130-TG4-U10ZZ	BEAM COMP,FR BPR	0	3	19	1,5	12,67	F

Lanjutan Tabel 2.

27	71104-TG1-T10ZA	COVER_FR TOWING H	5	1	37	3	12,33	F
28	60170-TG1-T00ZZ	HINGE COMPL HOOD	2	1	18	1,5	12,00	F
29	71104-TG1-T00	COVER_FR TOWING HT	1	0	6	0,5	12,00	F
30	76802-TG1-T11	MOUTH CAP	0	2	12	1	12,00	F
31	71101-TG1-T10ZZ	FACE_FR BUMPER	17	8	143	12,5	11,44	F
32	74101-TG1-T10	FENDER R_FR INN	3	2	28	2,5	11,20	F
33	51920-TG4-T01	MT RUB DAMPER FR	15	9	134	12	11,17	F
34	71850-TG4-T01ZC	GARN ASSY L,SIDE SILL T99	0	2	11	1	11,00	F
35	42700-TG4-T71	WHEEL_DISK AL 14XAR	1	0	5	0,5	10,00	F
36	51360-TG4-K00	LWRARM ASSY,LFR	0	5	23	2,5	9,20	F
37	35010-TG4-K41	SET KEY CYLINDER	0	2	9	1	9,00	F
38	47510-TG4-T51	47510-TG4-T52	1	0	4	0,5	8,00	F
39	67510-TG4-U10ZZ	PANEL COMP_R RR DSH	0	1	4	0,5	8,00	F
40	51211-TG4-T10	KNUCKLE,R FR NON ABS	0	1	4	0,5	8,00	F
41	51611-TG4-T12	DAMPER UNIT,R FR	4	1	20	2,5	8,00	F
42	76258-TG4-U11	SET RH-L,MIR ASSY	4	2	24	3	8,00	F
43	73101-TG4-U01	GLASS, FR WINDSHIELD	11	10	80	10,5	7,62	F
44	45022-TG1-T00	SET_PAD FR	30	27	215	28,5	7,54	F
45	76208-TG4-U11	SET RH-R,MIR ASSY	5	5	36	5	7,20	F
33	51920-TG4-T01	MT RUB DAMPER FR	15	9	134	12	11,17	F
46	73211-TG4-U22	SET_RR WSHLD GLAS(WIPER)	4	5	31	4,5	6,89	F
47	51611-TG4-T02	DAMPER UNIT,R FR	4	3	24	3,5	6,86	F
48	45251-TG4-T10	DISK,FR BRAKE 240MM	0	5	17	2,5	6,80	F
49	33501-TG4-T01	LAMP UNIT,R	9	1	33	5	6,60	F
50	74101-TG4-U00	FENDER R,FR INN	4	6	32	5	6,40	F
51	33501-TG1-T51	LAMP UNIT, R	10	8	56	9	6,22	F
52	74151-TG1-T10	FENDER L_FR INN	1	9	31	5	6,20	F
53	52610-TG4-K02	DAMPER ASSY,RR	1	1	6	1	6,00	F
54	91505-TG1-T01	CLIP,BPR A	2	81	229	41,5	5,52	F
55	33551-TG1-T51	LAMP UNIT, L	10	6	44	8	5,50	F
56	50820-TG4-T02	MTG,ENG SIDE(MT)	20	66	229	43	5,33	F
57	74151-TG4-U00	FENDER L,FR INN	4	7	29	5,5	5,27	F

Lanjutan Tabel 2.

58	53410-TG4-003	RACK END COMP	2	5	17	3,5	4,86	F
59	71193-TG1-T01	SPACER R_FR BPR SIDE	15	13	64	14	4,57	F
60	76208-TG1-T31	SET RH-R_R/C MIR	2	2	9	2	4,50	F
61	42751-TG4-T03	TIRE,175/65R14 ACHIL	4	3	15	3,5	4,29	F
62	42200-TG1-T51	BEARING ASSY,RR HUB UNIT	2	1	6	1,5	4,00	F
63	39120-TG4-YA1	SPKR ASSY 17CM SINGLE CONE	1	0	2	0,5	4,00	F
64	47560-TG4-T11	47560-TG4-T12	1	0	2	0,5	4,00	F
65	04646-TG4-T00ZZ	PANEL SET L_RR OUDE	1	0	2	0,5	4,00	F
66	33551-TG4-T01	LAMP UNIT,L	9	5	28	7	4,00	F
67	42751-TG4-K02	TIRE,185/55R15	1	6	12	3,5	3,43	F
68	80410-TG1-T11ZA	SW ASSY_AIRCON	5	9	23	7	3,29	F
69	76622-TG1-T01L	BLADE RUBBER BRIO1.2(550MM)	25	14	62	19,5	3,18	F
70	76622-TG1-T01	BLADE RUBBER WIPER	6	5	17	5,5	3,09	F
71	38100-TG1-T01	HORN ASSY(LOW)	1	1	3	1	3,00	S
72	71198-TG1-T01	SPACER L_FR BPR SIDE	27	10	55	18,5	2,97	S
73	73125-TG1-T00	RUBBER,FR WSHLD DAM A	20	21	56	20,5	2,73	S
74	76251-TG4-U01ZB	SKULLCAP L *T99*	4	2	8	3	2,67	S
75	76203-TG1-T01	SET RH-R_MIR SUB	10	3	15	6,5	2,31	S
76	42751-TG4-T04	TIRE,175/65R14 DUNLOP	13	12	26	12,5	2,08	S
77	33301-TG1-T01	BULB S25 AMBER URN	2	3	5	2,5	2,00	S
78	76258-TG1-T31	SET RH-L_R/C MIR	1	2	3	1,5	2,00	S
79	42751-TG4-T00	TIRE,175/65R14 GYI	8	4	6	6	1,00	S
80	91506-TG1-T01	CLIP,BPR B	5	10	7	7,5	0,93	S
57	74151-TG4-U00	FENDER L,FR INN	4	7	29	5,5	5,27	F
58	53410-TG4-003	RACK END COMP	2	5	17	3,5	4,86	F
59	71193-TG1-T01	SPACER R_FR BPR SIDE	15	13	64	14	4,57	F
60	76208-TG1-T31	SET RH-R_R/C MIR	2	2	9	2	4,50	F
61	42751-TG4-T03	TIRE,175/65R14 ACHIL	4	3	15	3,5	4,29	F
62	42200-TG1-T51	BEARING ASSY,RR HUB UNIT	2	1	6	1,5	4,00	F
63	39120-TG4-YA1	SPKR ASSY 17CM SINGLE CONE	1	0	2	0,5	4,00	F
64	47560-TG4-T11	47560-TG4-T12	1	0	2	0,5	4,00	F
65	04646-TG4-T00ZZ	PANEL SET L_RR OUDE	1	0	2	0,5	4,00	F

Lanjutan Tabel 2.

66	33551-TG4-T01	LAMP UNIT,L	9	5	28	7	4,00	F
67	42751-TG4-K02	TIRE,185/55R15	1	6	12	3,5	3,43	F
68	80410-TG1-T11ZA	SW ASSY_AIRCON	5	9	23	7	3,29	F
69	76622-TG1-T01L	BLADE RUBBER BRIO1.2(550MM)	25	14	62	19,5	3,18	F
70	76622-TG1-T01	BLADE RUBBER WIPER	6	5	17	5,5	3,09	F
71	38100-TG1-T01	HORN ASSY(LOW)	1	1	3	1	3,00	S
72	71198-TG1-T01	SPACER L_FR BPR SIDE	27	10	55	18,5	2,97	S
73	73125-TG1-T00	RUBBER,FR WSHLD DAM A	20	21	56	20,5	2,73	S
74	76251-TG4-U01ZB	SKULLCAP L *T99*	4	2	8	3	2,67	S
75	76203-TG1-T01	SET RH-R_MIR SUB	10	3	15	6,5	2,31	S
76	42751-TG4-T04	TIRE,175/65R14 DUNLOP	13	12	26	12,5	2,08	S
77	33301-TG1-T01	BULB S25 AMBER URN	2	3	5	2,5	2,00	S
78	76258-TG1-T31	SET RH-L_R/C MIR	1	2	3	1,5	2,00	S
79	42751-TG4-T00	TIRE,175/65R14 GYI	8	4	6	6	1,00	S
80	91506-TG1-T01	CLIP,BPR B	5	10	7	7,5	0,93	S
81	04611-TG1-T00ZZ	PANEL SET_L BHD ACC	0	0	1	0	0,00	N
82	08F01-TG1-700A	FR BPR GARNISH SE17	0	0	1	0	0,00	N
83	51925-TG1-T01	DAMPER COMP., REBOUND STOP	0	0	4	0	0,00	N
84	60100-TG1-T01ZZ	HOOD COMP	0	0	25	0	0,00	N
85	71593-TG1-T01	SPACER R_RR BPR S	0	0	12	0	0,00	N
86	74141-TG1-T00	INSULATOR,HOOD	0	0	1	0	0,00	N
87	74551-TG1-T00	COVER R,RR FENDER	0	0	5	0	0,00	N
88	53040-TG4-W11	G/BOX COMP,STRG	0	0	1	0	0,00	N
89	67550-TG4-T00ZZ	PANEL COMP_L RR DOOR	0	0	6	0	0,00	N
90	74212-TG4-U00	COVER R,HOOD HINGE	0	0	8	0	0,00	N
91	74591-TG4-T00	COVER L_RR FENDER	0	0	3	0	0,00	N
92	75490-TG4-K00	GARN ASSY_R FR PLR	0	0	11	0	0,00	N
93	34270-TG4-T01	LIGHT ASSY,H/M ST	0	0	4	0	0,00	N
94	74900-TG4-T90ZC	SPOILER ASSY,T/GATE T99	0	0	2	0	0,00	N
95	74901-TG4-T90	COVER ASSY_T/GATELWR	0	0	2	0	0,00	N
96	04636-TG4-T00ZZ	PANEL SET R_RR OUDE	0	0	1	0	0,00	N
97	04655-TG4-T00ZZ	PANEL SET_RR FLR NT OUTSIDE	0	0	1	0	0,00	N

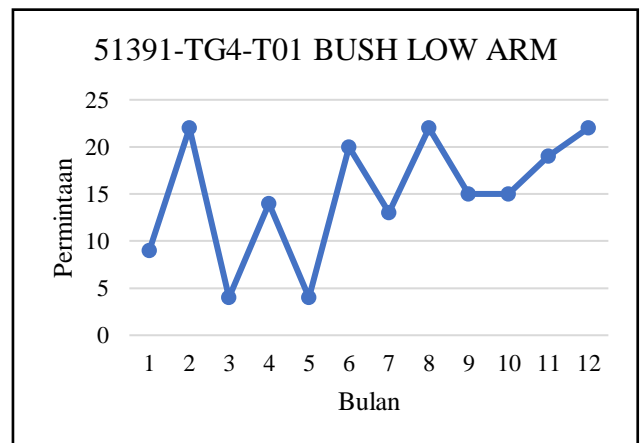
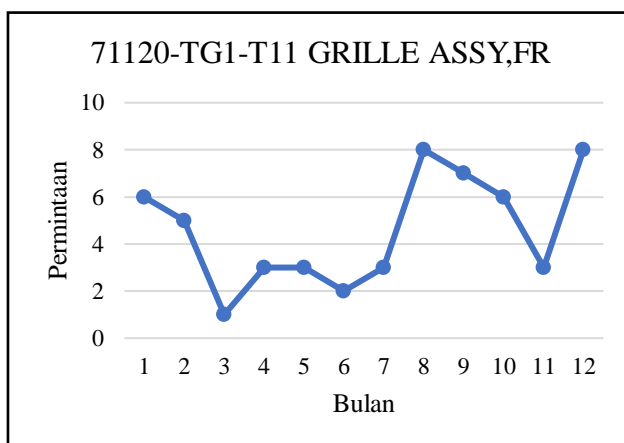
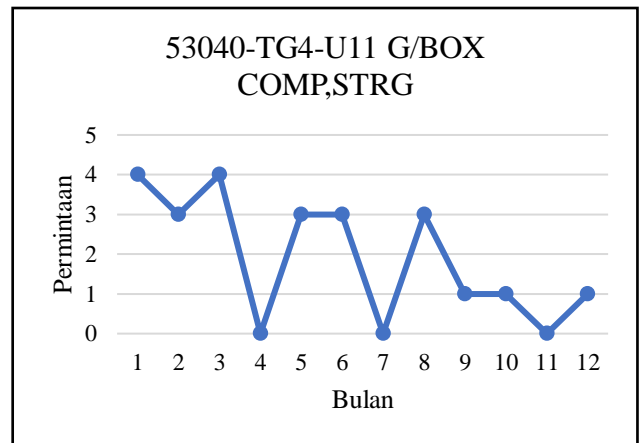
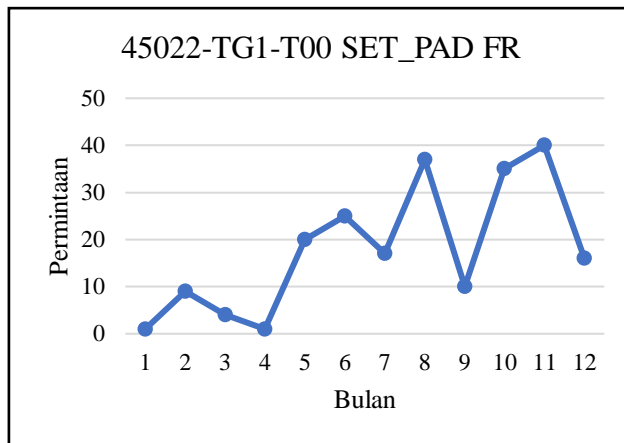
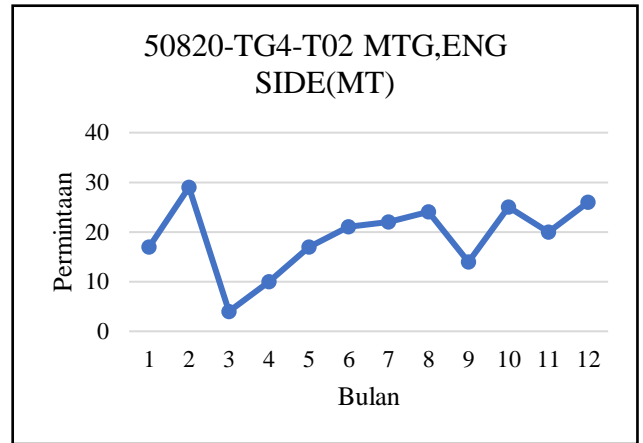
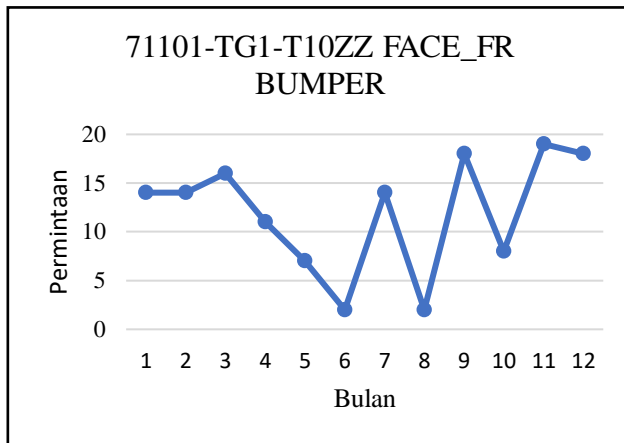
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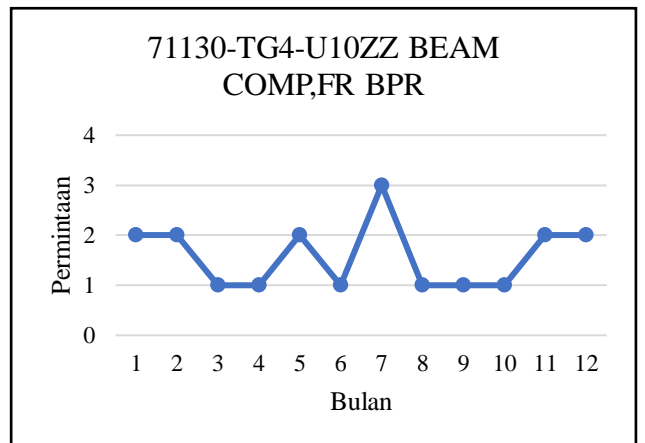
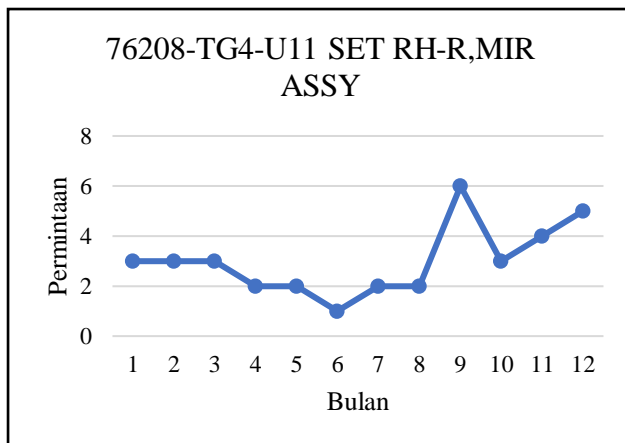
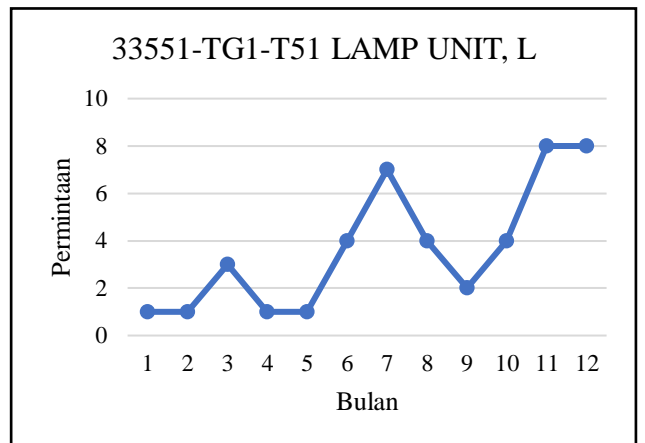
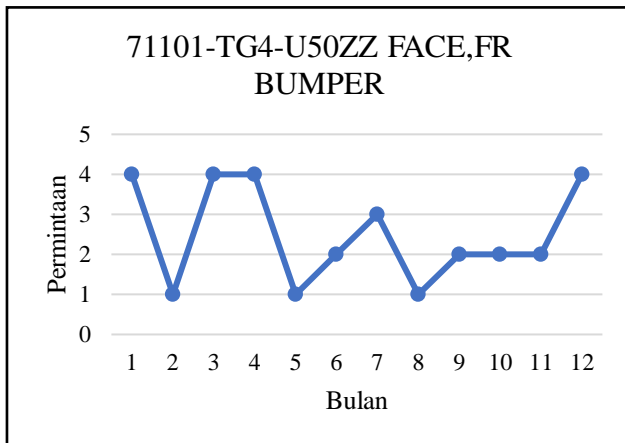
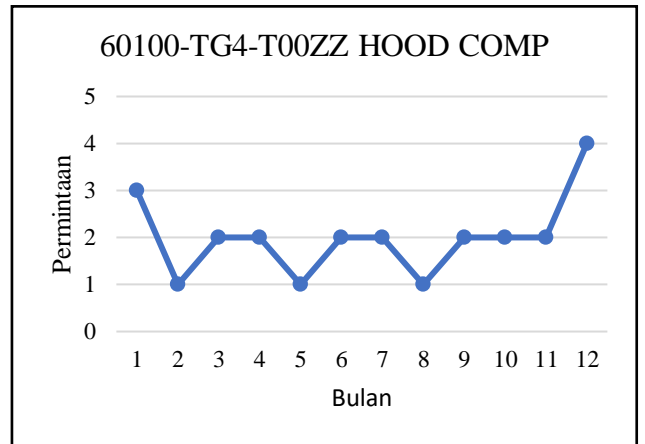
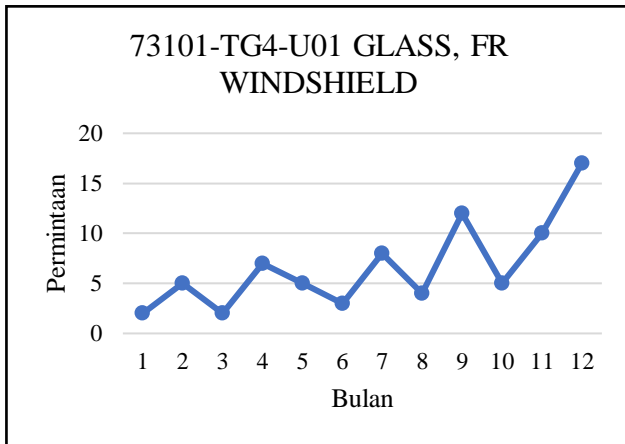
98	17045-TG4-T00	17045-TG4-T01	0	0	1	0	0,00	N
99	18220-TG4-T01	PIPE B_EXHAUST	0	0	2	0	0,00	N
100	18307-TG4-T01	SLNCR COMP_EXH.	0	0	2	0	0,00	N

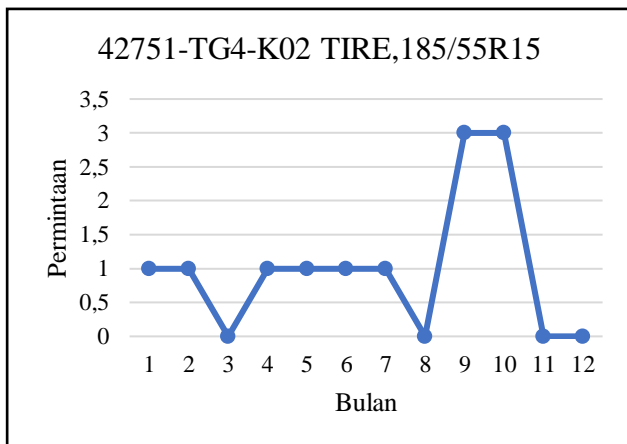
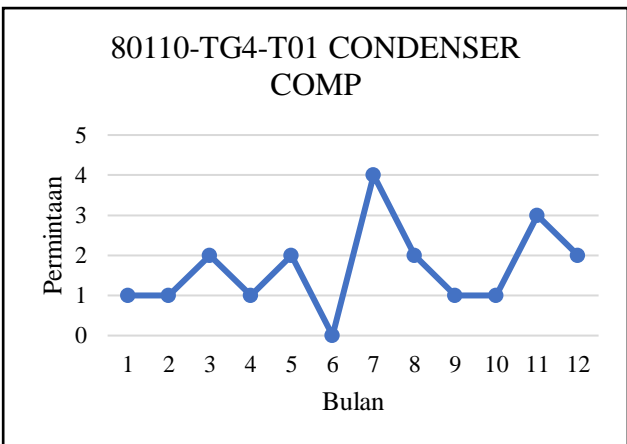
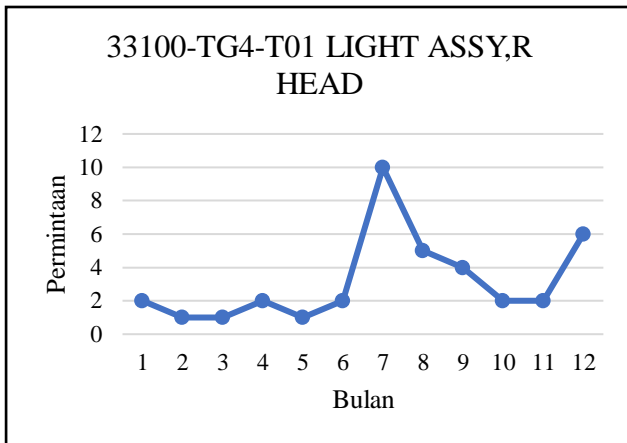
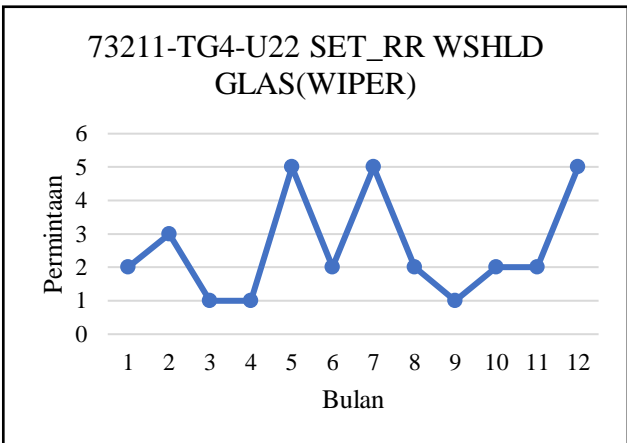
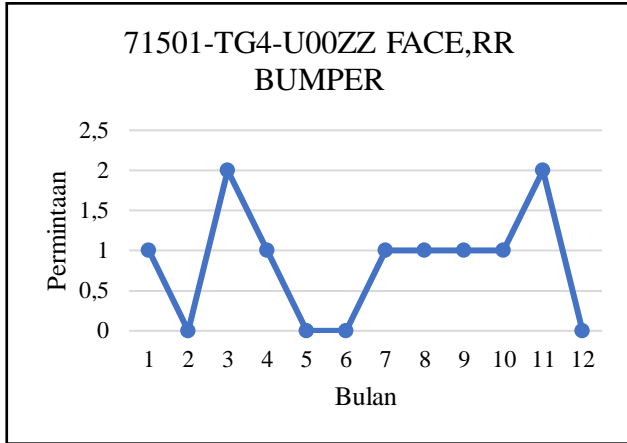
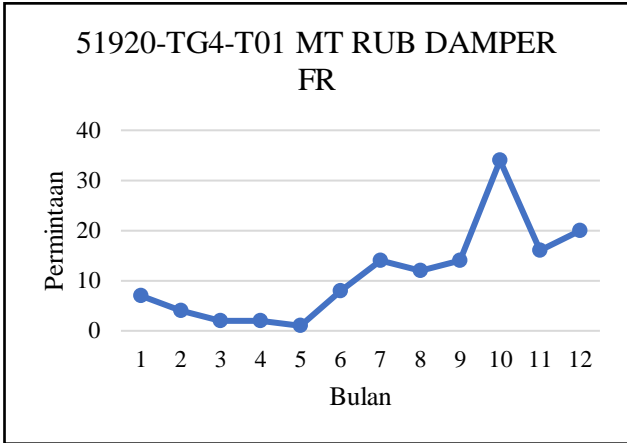
(Sumber: Hasil Pengolahan Data)

LAMPIRAN 4

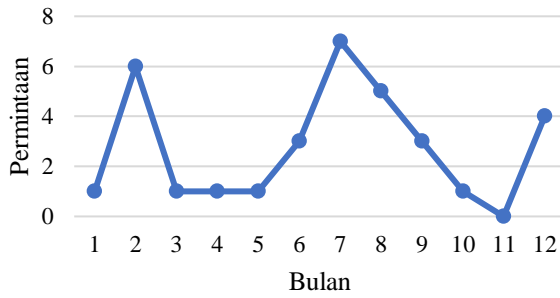
Lampiran 4 berisi pola data permintaan *spare part* Honda Brio pada tahun 2020.



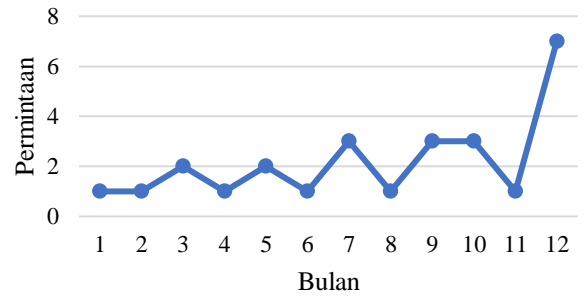




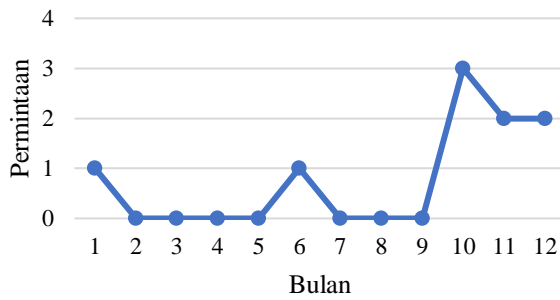
33150-TG4-T01 LIGHT ASSY,L
HEAD



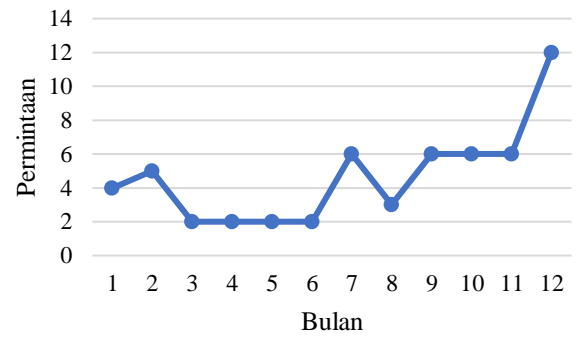
71501-TG4-T00ZZ FACE,RR
BUMPER



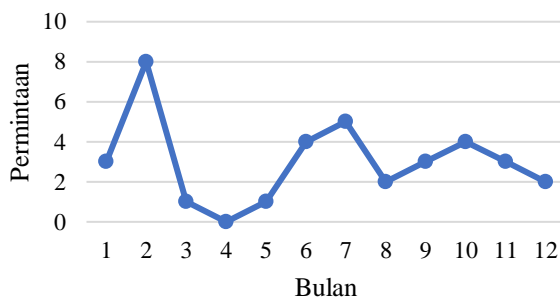
35010-TG4-K41 SET KEY
CYLINDER



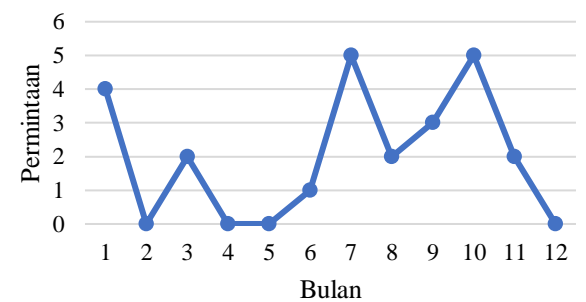
33501-TG1-T51 LAMP UNIT, R

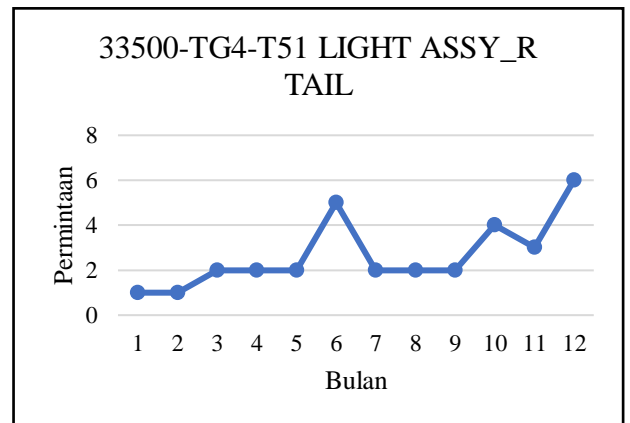
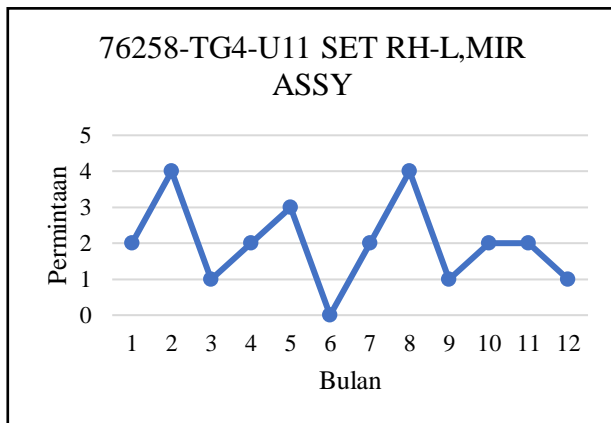


33550-TG4-T51 LIGHT ASSY_L
TAIL



51611-TG4-T02 DAMPER UNIT,R
FR





LAMPIRAN 5

Lampiran 5 berisi hasil perhitungan material *spare part* Face_FR Bumper 71101-TG1-T10ZZ dengan menggunakan Metode Algoritma *Silver Meal*.

Pemesanan 1 :

$$K_1 = \frac{1}{1}(660.000) + (0 \times 6.099 \times 30)$$

$$= \text{Rp. } 660.000$$

$$K_2 = \frac{1}{2}(660.000) + (0 \times 6.099 \times 30) + (1 \times 6.099 \times 25)$$

$$= \text{Rp } 482.475$$

$$K_3 = \frac{1}{3}(660.000) + (0 \times 6.099 \times 30) + (1 \times 6.099 \times 25) + (2 \times 6.099 \times 19)$$

$$= \text{Rp. } 604.237$$

Karena $m = 3 > m = 2$ maka yang di ambil adalah $m = 2$, kemudian dilanjutkan ke pemesanan berikutnya.

Pemesanan 2 :

$$K_3 = \frac{1}{1}(660.000) + (0 \times 6.099 \times 19)$$

$$= \text{Rp. } 660.000$$

$$K_4 = \frac{1}{2}(660.000) + (0 \times 6.099 \times 19) + (1 \times 6.099 \times 15)$$

$$= \text{Rp. } 421.483$$

$$K_5 = \frac{1}{3}(660.000) + (0 \times 6.099 \times 19) + (1 \times 6.099 \times 15) + (2 \times 6.099 \times 14)$$

$$= \text{Rp. } 482.250$$

Karena $m = 5 > m = 4$ maka yang di ambil adalah $m = 4$, kemudian dilanjutkan ke pemesanan berikutnya.

Pemesanan 3 :

$$K_5 = \frac{1}{1}(660.000) + (0 \times 6.099 \times 14)$$

$$= \text{Rp. } 660.000$$

$$K_6 = \frac{1}{2}(660.000) + (0 \times 6.099 \times 14) + (1 \times 6.099 \times 11)$$

$$= \text{Rp. } 397.087$$

$$K_7 = \frac{1}{3}(660.000) + (0 \times 6.099 \times 14) + (1 \times 6.099 \times 11) + (2 \times 6.099 \times 7)$$

$$= \text{Rp. } 372.471$$

$$K_8 = \frac{1}{4}(660.000) + (0 \times 6.099 \times 14) + (1 \times 6.099 \times 11) + (2 \times 6.099 \times 7) + (3 \times 6.099 \times 8)$$

$$= 463.843$$

Karena $m = 8 > m = 7$ maka yang di ambil adalah $m = 7$, kemudian dilanjutkan ke pemesanan berikutnya.

Pemesanan 4 :

$$K_8 = \frac{1}{1}(660.000) + (0 \times 6.099 \times 8)$$

$$= \text{Rp. } 660.000$$

$$K_9 = \frac{1}{2}(660.000) + (0 \times 6.099 \times 8) + (1 \times 6.099 \times 6)$$

$$= \text{Rp. } 366.593$$

$$K_{10} = \frac{1}{3}(660.000) + (0 \times 6.099 \times 8) + (1 \times 6.099 \times 6) + (2 \times 6.099 \times 11)$$

$$= \text{Rp. } 390.767$$

Karena $m = 10 > m = 9$ maka yang di ambil adalah $m = 9$, kemudian dilanjutkan ke pemesanan berikutnya.

Pemesanan 5 :

$$K_{10} = \frac{1}{1}(660.000) + (0 \times 6.099 \times 11)$$

$$= \text{Rp. } 660.000$$

$$K_{11} = \frac{1}{2}(660.000) + (0 \times 6.099 \times 11) + (1 \times 6.099 \times 9)$$

$$= \text{Rp. } 384.890$$

$$K_{12} = \frac{1}{3}(660.000) + (0 \times 6.099 \times 11) + (1 \times 6.099 \times 9) + (2 \times 6.099 \times 15)$$

$$= \text{Rp. } 475.855$$

Karena $m = 12 > m = 11$ maka yang di ambil adalah $m = 11$, kemudian dilanjutkan ke pemesanan berikutnya.

Pemesanan 6 :

$$K_{12} = \frac{1}{1}(660.000) + (0 \times 6.099 \times 15)$$

$$= \text{Rp. } 660.000$$

LAMPIRAN 6

Lampiran 6 berisi perhitungan nilai Q_{ce} untuk material Face FR Bumber 71101-TG1-T10ZZ

Periode 1:

$$Q_{11} = c_1e_1 = 30$$

$$Q_{12} = c_1e_1 + c_2e_2 = 30 + 25 = 55$$

$$Q_{13} = c_1e_1 + c_2e_2 + c_3e_3 = 30 + 25 + 19 = 74$$

$$Q_{14} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 = 30 + 25 + 19 + 15 = 89$$

$$Q_{15} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 = 30 + 25 + 19 + 15 + 14 = 103$$

$$Q_{16} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 = 30 + 25 + 19 + 15 + 14 + 11 = 114$$

$$Q_{17} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 = 30 + 25 + 19 + 15 + 14 + 11 + 7 = 121$$

$$Q_{18} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 = 30 + 25 + 19 + 15 + 14 + 11 + 7 + 8 = 129$$

$$Q_{19} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 = 30 + 25 + 19 + 15 + 14 + 11 + 7 + 8 + 6 = 135$$

$$Q_{110} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} = 30 + 25 + 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 = 146$$

$$Q_{111} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} = 30 + 25 + 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 + 9 = 155$$

$$Q_{112} = c_1e_1 + c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 +$$

$$c_{10}e_{10} + c_{11}e_{11} + c_{12}e_{12} = 30 + 25 + 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 + 9 + 115 = 170$$

Periode 2:

$$Q_{22} = c_2e_2 = 25$$

$$Q_{23} = c_2e_2 + c_3e_3 = 25 + 19 = 44$$

$$Q_{24} = c_2e_2 + c_3e_3 + c_4e_4 = 25 + 19 + 15 = 59$$

$$Q_{25} = c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 = 25 + 19 + 15 + 14 = 73$$

$$Q_{26} = c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 = 25 + 19 + 15 + 14 + 11 = 84$$

$$Q_{27} = c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 = 25 + 19 + 15 + 14 + 11 + 7 = 91$$

$$Q_{28} = c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 = 25 + 19 + 15 + 14 + 11 + 7 + 8 = 99$$

$$Q_{29} = c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 = 25 + 19 + 15 + 14 + 11 + 7 + 8 + 6 = 105$$

$$Q_{210} = c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} = 25 + 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 = 116$$

$$Q_{211} = c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} = 25 + 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 + 9 = 125$$

$$Q_{212} = c_2e_2 + c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} + c_{12}e_{12} = 25 + 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 + 9 + 15 = 140$$

Periode 3:

$$Q_{33} = c_3e_3 = 19$$

$$Q_{34} = c_3e_3 + c_4e_4 = 19 + 15 = 34$$

$$Q_{35} = c_3e_3 + c_4e_4 + c_5e_5 = 19 + 15 + 14 = 48$$

$$Q_{36} = c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 = 19 + 15 + 14 + 11 = 59$$

$$Q_{37} = c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 = 19 + 15 + 14 + 11 + 7 = 66$$

$$Q_{38} = c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 = 19 + 15 + 14 + 11 + 7 + 8 = 74$$

$$Q_{39} = c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 = 19 + 15 + 14 + 11 + 7 + 8 + 6 = 80$$

$$Q_{310} = c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} = 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 = 91$$

$$Q_{311} = c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} = 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 + 9 = 100$$

$$Q_{312} = c_3e_3 + c_4e_4 + c_5e_5 + c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} + c_{12}e_{12} = 19 + 15 + 14 + 11 + 7 + 8 + 6 + 11 + 9 + 15 = 115$$

Periode 4:

$$Q_{44} = c_4 e_4 = 15$$

$$Q_{45} = c_4 e_4 + c_5 e_5 = 15 + 14 = 29$$

$$Q_{46} = c_4 e_4 + c_5 e_5 + c_6 e_6 = 15 + 14 + 11 = 40$$

$$Q_{47} = c_4 e_4 + c_5 e_5 + c_6 e_6 + c_7 e_7 = 15 + 14 + 11 + 7 = 47$$

$$Q_{48} = c_4 e_4 + c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 = 15 + 14 + 11 + 7 + 8 = 55$$

$$Q_{49} = c_4 e_4 + c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 + c_9 e_9 = 15 + 14 + 11 + 7 + 8 + 6 = 61$$

$$Q_{410} = c_4 e_4 + c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 + c_9 e_9 + c_{10} e_{10} = 15 + 14 + 11 + 7 + 8 + 6 + 11 = 72$$

$$Q_{411} = c_4 e_4 + c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 + c_9 e_9 + c_{10} e_{10} + c_{11} e_{11} = 15 + 14 + 11 + 7 + 8 + 6 + 11 + 9 = 81$$

$$Q_{412} = c_4 e_4 + c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 + c_9 e_9 + c_{10} e_{10} + c_{11} e_{11} + c_{12} e_{12} = 15 + 14 + 11 + 7 + 8 + 6 + 11 + 9 + 15 = 96$$

Periode 5:

$$Q_{55} = c_5 e_5 = 14$$

$$Q_{56} = c_5 e_5 + c_6 e_6 = 14 + 11 = 25$$

$$Q_{57} = c_5 e_5 + c_6 e_6 + c_7 e_7 = 14 + 11 + 7 = 32$$

$$Q_{58} = c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 = 14 + 11 + 7 + 8 = 40$$

$$Q_{59} = c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 + c_9 e_9 = 14 + 11 + 7 + 8 + 6 = 46$$

$$Q_{510} = c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 + c_9 e_9 + c_{10} e_{10} = 14 + 11 + 7 + 8 + 6 + 11 = 57$$

$$Q_{511} = c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 + c_9 e_9 + c_{10} e_{10} + c_{11} e_{11} = 14 + 11 + 7 + 8 + 6 + 11 + 11 = 66$$

$$Q_{512} = c_5 e_5 + c_6 e_6 + c_7 e_7 + c_8 e_8 + c_9 e_9 + c_{10} e_{10} + c_{11} e_{11} + c_{12} e_{12} = 14 + 11 + 7 + 8 + 6 + 11 + 11 + 15 = 81$$

Periode 6:

$$Q_{66} = c_6 e_6 = 11$$

$$Q_{67} = c_6 e_6 + c_7 e_7 = 11 + 7 = 18$$

$$Q_{68} = c_6 e_6 + c_7 e_7 + c_8 e_8 = 11 + 7 + 8 = 26$$

$$Q_{69} = c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 = 11 + 7 + 8 + 6 = 32$$

$$Q_{610} = c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} = 11 + 7 + 8 + 6 + 11 = 43$$

$$Q_{611} = c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} = 11 + 7 + 8 + 6 + 11 + 9 = 52$$

$$Q_{612} = c_6e_6 + c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} + c_{12}e_{12} = 11 + 7 + 8 + 6 + 11 + 9 + 15 = 67$$

Periode 7:

$$Q_{77} = c_7e_7 = 7$$

$$Q_{78} = c_7e_7 + c_8e_8 = 7 + 8 = 15$$

$$Q_{79} = c_7e_7 + c_8e_8 + c_9e_9 = 7 + 8 + 6 = 21$$

$$Q_{710} = c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} = 7 + 8 + 6 + 11 = 32$$

$$Q_{711} = c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} = 7 + 8 + 6 + 11 + 9 = 41$$

$$Q_{712} = c_7e_7 + c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} + c_{12}e_{12} = 7 + 8 + 6 + 11 + 9 + 15 = 49$$

Periode 8:

$$Q_{88} = c_8e_8 = 8$$

$$Q_{89} = c_8e_8 + c_9e_9 = 8 + 6 = 14$$

$$Q_{810} = c_8e_8 + c_9e_9 + c_{10}e_{10} = 8 + 6 + 11 = 25$$

$$Q_{811} = c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} = 8 + 6 + 11 + 9 = 34$$

$$Q_{812} = c_8e_8 + c_9e_9 + c_{10}e_{10} + c_{11}e_{11} + c_{12}e_{12} = 8 + 6 + 11 + 9 + 15 = 49$$

Periode 9:

$$Q_{99} = c_9e_9 = 6$$

$$Q_{910} = c_9e_9 + c_{10}e_{10} = 6 + 11 = 17$$

$$Q_{911} = c_9e_9 + c_{10}e_{10} + c_{11}e_{11} = 6 + 11 + 9 = 26$$

$$Q_{912} = c_9e_9 + c_{10}e_{10} + c_{11}e_{11} + c_{12}e_{12} = 6 + 11 + 9 + 15 = 41$$

Periode 10 :

$$Q_{1010} = c_{10}e_{10} = 11$$

$$Q_{1011} = c_{10}e_{10} + c_{11}e_{11} = 11 + 9 = 20$$

$$Q_{1012} = c_{10}e_{10} + c_{11}e_{11} + c_{12}e_{12} = 11 + 9 + 15 = 35$$

Periode 11 :

$$Q_{11111} = c_{11}e_{11} = 9$$

$$Q_{11112} = c_{11}e_{11} + c_{12}e_{12} = 9 + 15 = 24$$

Periode 12 :

$$Q_{1212} = c_{12}e_{12} = 15$$

LAMPIRAN 7

Lampiran 7 berisi perhitungan nilai Z_{cc} untuk material Face FR Bumber 71101-TG1-T10ZZ

Periode 1 :

$$Z_{11} = 660.000 + 6.099 (30 - 30) = 660.000$$

$$Z_{12} = 660.000 + 6.099 [(55 - 30) + (55 - 55)] = 812.475$$

$$Z_{13} = 660.000 + 6.099 [(74 - 30) + (74 - 55) + (74 - 74)] = 1.044.237$$

$$Z_{14} = 660.000 + 6.099 [(89 - 30) + (89 - 55) + (89 - 74) + (89 - 89)] \\ = 1.318.692$$

$$Z_{15} = 660.000 + 6.099 [(103 - 30) + (103 - 55) + (103 - 74) + (103 - 89) \\ + (103 - 103)] = 1.660.236$$

$$Z_{16} = 660.000 + 6.099 [(114 - 30) + (114 - 55) + (114 - 74) + (114 - 89) \\ + (114 - 103) + (114 - 114)] = 1.995.681$$

$$Z_{17} = 660.000 + 6.099 [(121 - 30) + (121 - 55) + (121 - 74) + (121 - 89) \\ + (121 - 103) + (121 - 114) + (121 - 121)] = 2.251.839$$

$$Z_{18} = 660.000 + 6.099 [(129 - 30) + (129 - 55) + (129 - 74) + (129 - 89) \\ + (129 - 103) + (129 - 114) + (129 - 121)] = 2.886.135$$

$$Z_{19} = 660.000 + 6.099 [(135 - 30) + (135 - 55) + (135 - 74) + (135 - 89) \\ + (135 - 103) + (135 - 114) + (135 - 121) + (135 - 135)] \\ = 3.502.134$$

$$Z_{110} = 660.000 + 6.099 [(146 - 30) + (146 - 55) + (146 - 74) + (146 - 89) \\ + (146 - 103) + (146 - 114) + (146 - 121) + (146 - 135) \\ + (146 - 146)] = 4.038.846$$

$$Z_{111} = 660.000 + 6.099 [(155 - 30) + (155 - 55) + (155 - 74) + (155 - 89) \\ + (155 - 103) + (155 - 114) + (155 - 121) + (155 - 135) \\ + (155 - 146) + (155 - 155)] = 4.038.846$$

$$\begin{aligned}
Z_{112} &= 660.000 + 6.099 [(170 - 30) + (170 - 55) + (170 - 74) + (170 - 89) \\
&\quad + (170 - 103) + (170 - 114) + (170 - 121) + (170 - 135) \\
&\quad + (170 - 146) + (170 - 155) + (170 - 170)] = 5.045.181
\end{aligned}$$

Periode 2 :

$$Z_{22} = 660.000 + 6.099 (25 - 25) = 660.000$$

$$Z_{23} = 660.000 + 6.099 [(44 - 25) + (44 - 44)] = 775.881$$

$$Z_{24} = 660.000 + 6.099 [(59 - 25) + (59 - 44) + (59 - 59)] = 958.851$$

$$\begin{aligned}
Z_{25} &= 660.000 + 6.099 [(73 - 25) + (73 - 44) + (73 - 59) + (73 - 73)] \\
&= 1.215.009
\end{aligned}$$

$$\begin{aligned}
Z_{26} &= 660.000 + 6.099 [(84 - 25) + (84 - 44) + (84 - 59) + (84 - 73) + (84 \\
&\quad - 84)] = 1.483.365
\end{aligned}$$

$$\begin{aligned}
Z_{27} &= 660.000 + 6.099 [(91 - 25) + (91 - 44) + (91 - 59) + (91 - 73) + (91 \\
&\quad - 84) + (91 - 91)] = 1.696.830
\end{aligned}$$

$$\begin{aligned}
Z_{28} &= 660.000 + 6.099 [(99 - 25) + (99 - 44) + (99 - 59) + (99 - 73) + (99 \\
&\quad - 84) + (99 - 91) + (99 - 99)] = 1.989.582
\end{aligned}$$

$$\begin{aligned}
Z_{29} &= 660.000 + 6.099 [(105 - 25) + (105 - 44) + (105 - 59) + (105 - 73) \\
&\quad + (105 - 84) + (105 - 91) + (105 - 99) + (105 - 105)] \\
&= 2.245.740
\end{aligned}$$

$$\begin{aligned}
Z_{210} &= 660.000 + 6.099 [(116 - 25) + (116 - 44) + (116 - 59) + (116 - 73) \\
&\quad + (116 - 84) + (116 - 91) + (116 - 99) + (116 - 105) + (116 \\
&\quad - 116)] = 2.782.452
\end{aligned}$$

$$\begin{aligned}
Z_{211} &= 660.000 + 6.099 [(125 - 25) + (125 - 44) + (125 - 59) + (125 - 73) \\
&\quad + (125 - 84) + (125 - 91) + (125 - 99) + (125 - 105) + (125 \\
&\quad - 116) + (125 - 125)] = 3.276.471
\end{aligned}$$

$$\begin{aligned}
Z_{212} &= 660.000 + 6.099 [(140 - 25) + (140 - 44) + (140 - 59) + (140 - 73) \\
&\quad + (140 - 84) + (140 - 91) + (140 - 99) + (140 - 105) + (140 \\
&\quad - 116) + (140 - 125) + (140 - 140)] = 4.191.3321
\end{aligned}$$

Periode 3 :

$$Z_{33} = 660.000 + 6.099 (19 - 19) = 660.000$$

$$Z_{34} = 660.000 + 6.099 [(34 - 19) + (34 - 34)] = 751.485$$

$$Z_{35} = 660.000 + 6.099 [(48 - 19) + (48 - 34) + (48 - 48)] = 922.257$$

$$\begin{aligned}
Z_{36} &= 660.000 + 6.099 [(59 - 19) + (59 - 34) + (59 - 48) + (59 - 59)] \\
&= 1.123.542
\end{aligned}$$

$$Z_{37} = 660.000 + 6.099 [(66 - 19) + (66 - 34) + (66 - 48) + (66 - 59) + (66 - 66)] = 1.294.296$$

$$Z_{38} = 660.000 + 6.099 [(74 - 19) + (74 - 34) + (74 - 48) + (74 - 59) + (74 - 66) + (74 - 74)] = 1.538.256$$

$$Z_{39} = 660.000 + 6.099 [(80 - 19) + (80 - 34) + (80 - 48) + (80 - 59) + (80 - 66) + (80 - 74) + (80 - 80)] = 1.757.820$$

$$Z_{310} = 660.000 + 6.099 [(91 - 19) + (91 - 34) + (91 - 48) + (91 - 59) + (91 - 66) + (91 - 74) + (91 - 80) + (91 - 91)] = 2.227.443$$

$$Z_{311} = 660.000 + 6.099 [(100 - 19) + (100 - 34) + (100 - 48) + (100 - 59) + (100 - 66) + (100 - 74) + (100 - 80) + (100 - 91) + (100 - 100)] = 2.550.690$$

$$Z_{312} = 660.000 + 6.099 [(115 - 19) + (115 - 34) + (115 - 48) + (115 - 59) + (115 - 66) + (115 - 74) + (115 - 80) + (115 - 91) + (115 - 100) + (115 - 115)] = 3.489.936$$

Periode 4 :

$$Z_{44} = 660.000 + 6.099 (15 - 15) = 660.000$$

$$Z_{45} = 660.000 + 6.099 [(29 - 15) + (29 - 29)] = 745.386$$

$$Z_{46} = 660.000 + 6.099 [(40 - 15) + (40 - 29) + (40 - 40)] = 879.564$$

$$Z_{47} = 660.000 + 6.099 [(47 - 15) + (47 - 29) + (47 - 40) + (47 - 47)] = 1.007.643$$

$$Z_{48} = 660.000 + 6.099 [(55 - 15) + (55 - 29) + (55 - 40) + (55 - 47) + (55 - 55)] = 1.202.811$$

$$Z_{49} = 660.000 + 6.099 [(61 - 15) + (61 - 29) + (61 - 40) + (61 - 47) + (61 - 55) + (61 - 61)] = 1.385.781$$

$$Z_{410} = 660.000 + 6.099 [(72 - 15) + (72 - 29) + (72 - 40) + (72 - 47) + (72 - 55) + (72 - 61) + (72 - 72)] = 1.788.315$$

$$Z_{411} = 660.000 + 6.099 [(81 - 15) + (81 - 29) + (81 - 40) + (81 - 47) + (81 - 55) + (81 - 61) + (81 - 72) + (81 - 81)] = 2.172.552$$

$$Z_{412} = 660.000 + 6.099 [(96 - 15) + (96 - 29) + (96 - 40) + (96 - 47) + (96 - 55) + (96 - 61) + (96 - 72) + (96 - 81) + (96 - 96)] = 2.904.432$$

Periode 5 :

$$Z_{55} = 660.000 + 6.099 (14 - 14) = 660.000$$

$$Z_{56} = 660.000 + 6.099 [(25 - 14) + (25 - 25)] = 727.089$$

$$Z_{57} = 660.000 + 6.099 [(32 - 14) + (32 - 25) + (32 - 32)] = 812.475$$

$$Z_{58} = 660.000 + 6.099 [(40 - 14) + (40 - 25) + (40 - 32) + (40 - 40)] = 958.851$$

$$Z_{59} = 660.000 + 6.099 [(46 - 14) + (46 - 25) + (46 - 32) + (46 - 40) + (46 - 46)] = 1.105.227$$

$$Z_{510} = 660.000 + 6.099 [(57 - 14) + (57 - 25) + (57 - 32) + (57 - 40) + (57 - 46) + (57 - 57)] = 1.440.672$$

$$Z_{511} = 660.000 + 6.099 [(66 - 14) + (66 - 25) + (66 - 32) + (66 - 40) + (66 - 46) + (66 - 57) + (66 - 66)] = 1.770.018$$

$$Z_{512} = 660.000 + 6.099 [(81 - 14) + (81 - 25) + (81 - 32) + (81 - 40) + (81 - 46) + (81 - 57) + (81 - 66)] = 2.410.413$$

Periode 6 :

$$Z_{66} = 660.000 + 6.099 (11 - 11) = 660.000$$

$$Z_{67} = 660.000 + 6.099 [(18 - 11) + (18 - 18)] = 702.693$$

$$Z_{68} = 660.000 + 6.099 [(26 - 11) + (26 - 18) + (26 - 26)] = 800.277$$

$$Z_{69} = 660.000 + 6.099 [(32 - 11) + (32 - 18) + (32 - 26) + (32 - 32)] = 910.059$$

$$Z_{610} = 660.000 + 6.099 [(43 - 11) + (43 - 18) + (43 - 26) + (43 - 32) + (43 - 43)] = 1.178.415$$

$$Z_{611} = 660.000 + 6.099 [(52 - 11) + (52 - 18) + (52 - 26) + (52 - 32) + (52 - 43) + (52 - 52)] = 1.770.018$$

$$Z_{612} = 660.000 + 6.099 [(67 - 11) + (67 - 18) + (67 - 26) + (67 - 32) + (67 - 43) + (67 - 52) + (67 - 67)] = 2.410.413$$

Periode 7 :

$$Z_{77} = 660.000 + 6.099 (7 - 7) = 660.000$$

$$Z_{78} = 660.000 + 6.099 [(15 - 7) + (15 - 15)] = 708.792$$

$$Z_{79} = 660.000 + 6.099 [(21 - 7) + (21 - 15) + (21 - 21)] = 781.980$$

$$Z_{710} = 660.000 + 6.099 [(32 - 7) + (32 - 15) + (32 - 21) + (32 - 32)] = 983.247$$

$$Z_{711} = 660.000 + 6.099 [(41 - 7) + (41 - 15) + (41 - 21) + (41 - 32) + (41 - 41)] = 1.202.811$$

$$Z_{712} = 660.000 + 6.099 [(56 - 7) + (56 - 15) + (56 - 21) + (56 - 32) + (56 - 41) + (56 - 56)] = 1.660.236$$

Periode 8 :

$$Z_{88} = 660.000 + 6.099 (8 - 8) = 660.000$$

$$Z_{89} = 660.000 + 6.099 [(14 - 8) + (14 - 14)] = 696.594$$

$$Z_{810} = 660.000 + 6.099 [(25 - 8) + (25 - 14) + (25 - 25)] = 830.772$$

$$Z_{811} = 660.000 + 6.099 [(34 - 8) + (34 - 14) + (34 - 25) + (34 - 34)] \\ = 995.445$$

$$Z_{812} = 660.000 + 6.099 [(49 - 8) + (49 - 14) + (49 - 25) + (49 - 34) + (49 - 49)] = 1.361.385$$

Periode 9 :

$$Z_{99} = 660.000 + 6.099 (6 - 6) = 660.000$$

$$Z_{910} = 660.000 + 6.099 [(17 - 6) + (17 - 17)] = 696.594$$

$$Z_{911} = 660.000 + 6.099 [(26 - 6) + (26 - 17) + (26 - 26)] = 836.871$$

$$Z_{912} = 660.000 + 6.099 [(41 - 6) + (41 - 17) + (41 - 26) + (41 - 41)] \\ = 1.111.326$$

Periode 10 :

$$Z_{1010} = 660.000 + 6.099 (11 - 11) = 660.000$$

$$Z_{1011} = 660.000 + 6.099 [(20 - 11) + (20 - 20)] = 714.891$$

$$Z_{1012} = 660.000 + 6.099 [(35 - 11) + (35 - 20) + (35 - 35)] = 897.861$$

Periode 11 :

$$Z_{1111} = 660.000 + 6.099 (9 - 9) = 660.000$$

$$Z_{1112} = 660.000 + 6.099 [(24 - 9) + (24 - 24)] = 751.485$$

Periode 12 :

$$Z_{1212} = 660.000 + 6.099 (15 - 15) = 660.000$$

LAMPIRAN 8

Lampiran 8 berisi hasil perhitungan f_c untuk material Face FR Bumber 71101-TG1-T10ZZ.

$$F_1 = Z_{11} + F_0 = 660.000 + 0 = 660.000$$

$$F_2 = Z_{12} + F_0 = 812.475 + 0 = 812.475$$

$$= Z_{22} + F_1 = 812.475 + 660.000 = 1.320.000$$

$$F_3 = Z_{13} + F_0 = 1.044.237 + 0 = 1.044.237$$

$$= Z_{23} + F_1 = 775.881 + 660.000 = 1.435.881$$

$$= Z_{33} + F_2 = 660.000 + 812.475 = 1.472.475$$

$$F_4 = Z_{14} + F_0 = 1.318.692 + 0 = 1.318.692$$

$$= Z_{24} + F_1 = 958.851 + 660.000 = 1.618.851$$

$$= Z_{34} + F_2 = 751.485 + 812.475 = 1.563.960$$

$$= Z_{44} + F_3 = 660.000 + 1.044.237 = 1.978.692$$

$$F_5 = Z_{15} + F_0 = 1.660.236 + 0 = 1.660.236$$

$$= Z_{25} + F_1 = 1.215.009 + 660.000 = 1.875.009$$

$$= Z_{35} + F_2 = 922.257 + 812.475 = 1.734.732$$

$$= Z_{45} + F_3 = 745.386 + 1.044.237 = 1.789.623$$

$$= Z_{55} + F_4 = 660.000 + 1.318.692 = 1.978.692$$

$$F_6 = Z_{16} + F_0 = 1.995.681 + 0 = 1.995.681$$

$$= Z_{26} + F_1 = 1.483.365 + 660.000 = 2.143.365$$

$$= Z_{36} + F_2 = 1.123.524 + 812.475 = 1.935.999$$

$$= Z_{46} + F_3 = 879.564 + 1.044.237 = 1.923.801$$

$$= Z_{56} + F_4 = 727.089 + 1.318.692 = 2.045.781$$

$$= Z_{66} + F_5 = 660.000 + 1.660.236 = 2.320.236$$

$$F_7 = Z_{17} + F_0 = 2.251.839 + 0 = 2.251.839$$

$$= Z_{27} + F_1 = 1.696.830 + 660.000 = 2.356.830$$

$$= Z_{37} + F_2 = 1.294.296 + 812.475 = 2.106.771$$

$$= Z_{47} + F_3 = 1.007.643 + 1.044.237 = 2.051.880$$

$$= Z_{57} + F_4 = 812.475 + 1.318.692 = 2.131.167$$

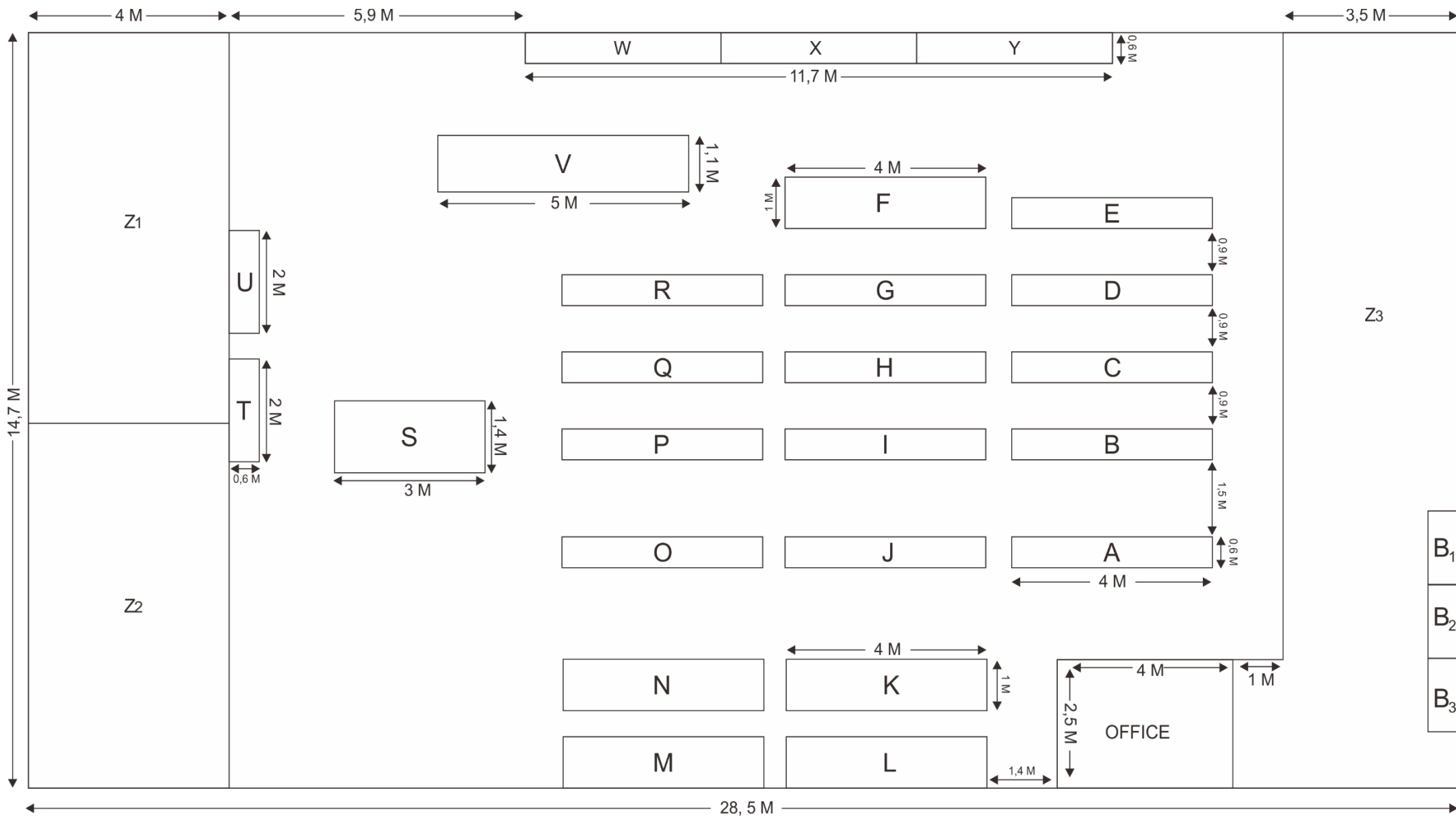
$$= Z_{67} + F_5 = 702.693 + 1.660.236 = 2.362.929$$

$$\begin{aligned}
&= Z_{77} + F_6 = 660.000 + 1.923.801 = 2.583.801 \\
F_8 &= Z_{18} + F_0 = 2.593.383 + 0 = 2.593.383 \\
&= Z_{28} + F_1 = 1.989.582 + 660.000 = 2.649.582 \\
&= Z_{38} + F_2 = 1.538.256 + 812.475 = 2.350.731 \\
&= Z_{48} + F_3 = 1.202.811 + 1.044.237 = 2.247.048 \\
&= Z_{58} + F_4 = 958.851 + 1.318.692 = 2.277.543 \\
&= Z_{68} + F_5 = 800.277 + 1.660.236 = 2.460.513 \\
&= Z_{78} + F_6 = 708.792 + 1.923.801 = 2.632.593 \\
&= Z_{88} + F_7 = 660.000 + 2.051.880 = 2.911.839 \\
F_9 &= Z_{19} + F_0 = 2.886.135 + 0 = 2.886.135 \\
&= Z_{29} + F_1 = 2.245.740 + 660.000 = 2.905.740 \\
&= Z_{39} + F_2 = 1.757.820 + 812.475 = 2.570.295 \\
&= Z_{49} + F_3 = 1.385.781 + 1.044.237 = 2.430.018 \\
&= Z_{59} + F_4 = 1.105.227 + 1.318.692 = 2.423.919 \\
&= Z_{69} + F_5 = 910.059 + 1.660.236 = 2.570.295 \\
&= Z_{79} + F_6 = 781.980 + 1.923.801 = 2.705.781 \\
&= Z_{89} + F_7 = 696.594 + 2.051.880 = 2.948.433 \\
&= Z_{99} + F_8 = 660.000 + 2.247.048 = 3.253.383 \\
F_{10} &= Z_{110} + F_0 = 3.502.134 + 0 = 3.502.134 \\
&= Z_{210} + F_1 = 2.782.452 + 660.000 = 3.442.452 \\
&= Z_{310} + F_2 = 2.227.443 + 812.475 = 3.039.918 \\
&= Z_{410} + F_3 = 1.788.315 + 1.044.237 = 2.832.552 \\
&= Z_{510} + F_4 = 1.440.672 + 1.318.692 = 2.759.364 \\
&= Z_{610} + F_5 = 1.178.415 + 1.660.236 = 2.838.651 \\
&= Z_{710} + F_6 = 983.247 + 1.923.801 = 2.907.048 \\
&= Z_{810} + F_7 = 830.772 + 2.051.880 = 3.082.611 \\
&= Z_{910} + F_8 = 727.089 + 2.247.048 = 3.320.472 \\
&= Z_{1010} + F_9 = 660.000 + 2.423.919 = 3.083.919 \\
F_{11} &= Z_{111} + F_0 = 4.038.846 + 0 = 4.038.846 \\
&= Z_{211} + F_1 = 3.276.471 + 660.000 = 3.936.471
\end{aligned}$$

$$\begin{aligned}
&= Z_{311} + F_2 = 2.227.443 + 812.475 = 3.039.918 \\
&= Z_{411} + F_3 = 2.172.552 + 1.044.237 = 3.216.789 \\
&= Z_{511} + F_4 = 1.770.018 + 1.318.692 = 3.088.710 \\
&= Z_{611} + F_5 = 1.452.870 + 1.660.236 = 3.113.106 \\
&= Z_{711} + F_6 = 1.202.811 + 1.923.801 = 3.126.612 \\
&= Z_{811} + F_7 = 995.445 + 2.051.880 = 3.247.284 \\
&= Z_{911} + F_8 = 836.871 + 2.247.048 = 3.430.254 \\
&= Z_{1011} + F_9 = 714.891 + 2.423.919 = 3.138.810 \\
&= Z_{1111} + F_9 = 660.000 + 2.423.919 = 3.419.364 \\
F_{12} &= Z_{112} + F_0 = 5.045.181 + 0 = 5.045.181 \\
&= Z_{212} + F_1 = 4.191.321 + 660.000 = 4.851.321 \\
&= Z_{312} + F_2 = 3.489.936 + 812.475 = 4.302.411 \\
&= Z_{412} + F_3 = 2.904.432 + 1.044.237 = 3.948.669 \\
&= Z_{512} + F_4 = 2.410.413 + 1.318.692 = 3.729.105 \\
&= Z_{612} + F_5 = 2.001.780 + 1.660.236 = 3.662.016 \\
&= Z_{712} + F_6 = 1.660.236 + 1.923.801 = 3.584.037 \\
&= Z_{812} + F_7 = 1.361.385 + 2.051.880 = 3.613.224 \\
&= Z_{912} + F_8 = 1.111.326 + 2.247.048 = 3.704.709 \\
&= Z_{1012} + F_9 = 897.861 + 2.423.919 = 3.321.780 \\
&= Z_{1112} + F_{10} = 751.485 + 2.423.919 = 3.510.849 \\
&= Z_{11212} + F_{11} = 660.000 + 3.039.918 = 3.699.918
\end{aligned}$$

LAMPIRAN 9

Lampiran 9 berisi *Layout* Gudang PT Honda Makassar Indah dengan skala 1:100



Keterangan :

A-Y = Rak penyimpanan *spare part*.

Z₁ = Tempat penyimpanan *spare part* yang belum terjual lebih dari 3 tahun.

Z₂ = Tempat penyimpanan material kategori bahan.

Z₃ = Tempat penyimpanan barang pesanan yang telah tiba.

B₁, B₂, B₃ = Penyimpanan bahan yang sering terpakai

LAMPIRAN 10

Lampiran 10 berisi dokumentasi Gudang PT Honda Makassar Indah

