

BAB 6

KESIMPULAN DAN SARAN

6.1. Kesimpulan

Berdasarkan hasil analisis yang telah dilakukan oleh penulis, maka dapat ditarik kesimpulan *relay* layout menghasilkan perbaikan aliran material dengan total biaya *material handling* pada tata letak awal adalah sebesar Rp.44.235,81/hari. Pada tata letak hasil penyesuaian (tata letak usulan), total biaya *material handling* menjadi sebesar Rp.27.735,18/hari.

Dari hasil perhitungan Kecukupan area tidak dilakukan perluasan area dan terdapat dua departemen yang tidak memenuhi kecukupan area untuk produksi yaitu departemen QC dan Inspeksi khusus bayer.

6.2. Saran

Adapun saran yang dapat diberikan penulis untuk penelitian selanjutnya yaitu:

1. Pada penelitian selanjutnya sebaiknya dilakukan analisis jumlah kapasitas pekerja pada tiap departemen dilihat dari target produksi dibandingkan dengan luas area, karena akan dapat memberikan hasil yang lebih akurat mengenai kebutuhan area departemen itu sendiri serta kapasitas dari pekerjaanya juga dalam pemenuhan target produksi tersebut.

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LAMPIRAN 1
DATA PERMINTAAN PRODUKSI
DARI NOVEMBER 2006 SAMPAI OKTOBER 2007

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
1	Pandan Square Tray w/ hand hole S/3	5-Nov-06	6-Jan-07	30	
2	Pandan Basket w/ wodden handle S/3	5-Nov-06	6-Jan-07	30	
3	Hanging Lamp	5-Nov-06	6-Jan-07	10	
4	Sonokeling Oval Tray S/2	5-Nov-06	6-Jan-07	30	100
5	Pandanus Rect. Storage - Small	1-Nov-06	22-Nov-06	32	32
6	Artificial Leather Box w/ Cover S/2	15-Nov-06	19-Dec-06	10	
7	COCO STRAW DRAWER BOX - LOW	25-Nov-06	19-Dec-06	32	
8	COCO STRAW DRAWER BOX - MEDIUM	25-Nov-06	19-Dec-06	60	
9	COCO STRAW DRAWER BOX - HIGH	25-Nov-06	19-Dec-06	60	
10	Pandanus Rect. Storage - Small	28-Nov-06	19-Dec-06	52	214
	total bulan november				346
11	Pandan triangle waste basket	18-Dec-06	15-Jan-07	70	
12	Pandanus Drawer Tray S/6 in Natural	13-Dec-06	25-Jan-07	252	
13	Book Cover (coco straw w/ fabric inside)	21-Dec-06	23-Jan-07	20	
14	Book Cover (coco straw w/ fabric inside)	21-Dec-06	23-Jan-07	20	
15	Amenity Box 1 (coco straw w/ fabric inside)	21-Dec-06	23-Jan-07	50	
16	Amenity Box 2 (coco straw w/ fabric inside)	21-Dec-06	23-Jan-07	50	
17	Waste Bin A (coco straw w/ oscar inside)	21-Dec-06	23-Jan-07	50	
18	Galvanised Bin (painted in black)	21-Dec-06	23-Jan-07	50	
19	Waste Bin B (coco straw w/ oscar inside)	21-Dec-06	23-Jan-07	50	
20	Galvanised Bin (painted in black)	21-Dec-06	23-Jan-07	50	
21	Tray (coco straw w/ oscar inside)	21-Dec-06	23-Jan-07	30	
22	Towel Box & 2 hole handles w/ oscar frame	21-Dec-06	23-Jan-07	50	
23	Tissue Box (coco straw w/ fabric inside)	21-Dec-06	23-Jan-07	50	
24	Tea Box (coco straw w/ fabric inside)	21-Dec-06	23-Jan-07	30	
25	DUST BOX NA	23-Dec-06	26-Dec-06	5	
	total bulan desember				827
26	Cocostraw Dust Bin w/ Lid	12-Jan-07	27-Feb-07	408	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
27	Pandanus CD Box with Cover	6-Jan-07	15-Feb-07	16	
28	Pandanus CD Box	6-Jan-07	15-Feb-07	16	
29	Pandanus Round Bowl set of 3	6-Jan-07	15-Feb-07	16	
30	Pandanus Rect. Tray set of 3	6-Jan-07	15-Feb-07	100	
31	Pandanus Square Box set of 3	6-Jan-07	15-Feb-07	32	
32	Gajih Rect. Storage with Cover	6-Jan-07	15-Feb-07	20	
33	Pandanus Rect. Storage w/ Cover w/ Bamboo rim S/4	6-Jan-07	15-Feb-07	28	
34	Pandanus 2 Tone Square Box S/3	6-Jan-07	15-Feb-07	24	
35	Pandanus Rect. Storage w/ Bamboo Rim w/ Hand Hole S/3	6-Jan-07	15-Feb-07	28	
36	Pandanus Square Storage w/ Poles Handle	6-Jan-07	15-Feb-07	32	
37	COCO STRAW DUST BIN W/ LID	11-Jan-07	25-Feb-07	408	
38	Pandan triangle waste basket	15-Jan-07	8-Feb-07	60	1188
39	BOOK COVER (COCO STRAW W/FABRIC INSIDE)	11-Jan-07	20-Jan-07	20	
40	BOOK COVER (COCO STRAW W/FABRIC INSIDE)	11-Jan-07	20-Jan-07	20	
41	AMENITY BOX 1 (COCO STRAW W/FABRIC INSIDE)	11-Jan-07	20-Jan-07	50	
42	AMENITY BOX 2 (COCO STRAW W/FABRIC INSIDE)	11-Jan-07	20-Jan-07	50	
43	WASTE BIN A (COCO STRAW W/OSCAR INSIDE)	11-Jan-07	20-Jan-07	50	
44	GALVANIZED BIN (PAINTED IN BLACK)	11-Jan-07	20-Jan-07	50	
45	WASTE BIN B (COCO STRAW W/OSCAR INSIDE)	11-Jan-07	20-Jan-07	50	
46	GALVANIZED BIN (PAINTED IN BLACK)	11-Jan-07	20-Jan-07	50	
47	TRAY (COCO STRAW W/OSCAR INSIDE)	11-Jan-07	20-Jan-07	30	
48	TOWEL BOX (COCO STRAW W/OSCAR INSIDE) & 2 HOLE HANDLES WITH OSCAR FRAME	11-Jan-07	20-Jan-07	50	
49	TISSUE BOX (COCO STRAW W/FABRIC INSIDE)	11-Jan-07	20-Jan-07	50	
50	TEA BOX (COCO STRAW W/OSCAR INSIDE)	11-Jan-07	20-Jan-07	30	500
51	LG SEAGRASS NAT BOX WITH VINYL	13-Jan-07	24-Mar-07	120	
52	SM SEAGRASS NAT BOX WITH VINYL	13-Jan-07	24-Mar-07	120	240
	total bulan januari				1928

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
53	Bamboo serving tray	23-Feb-07	30-Mar-07	125	
54	Bamboo fruit bowl	23-Feb-07	30-Mar-07	50	
55	Egg shell set of 3	10-Feb-07	2-Mar-07	100	
56	Egg shell set of 3	10-Feb-07	5-Mar-07	50	
57	Pandan triangle waste basket	8-Feb-07	16-Mar-07	50	
58	Round under plate, 38 cm Black	10-Feb-07	27-Mar-07	20	
59	Round under plate, 38 cm Brown	10-Feb-07	27-Mar-07	50	
60	Magazine holder, Black	10-Feb-07	27-Mar-07	26	
61	Magazine holder, Brown	10-Feb-07	27-Mar-07	30	
62	Rect box iron top s/3, Black	10-Feb-07	27-Mar-07	10	
63	Rect box iron top s/3, Brown	10-Feb-07	27-Mar-07	10	
64	Square box iron to s/3, Black	10-Feb-07	27-Mar-07	11	
65	Square box iron to s/3, Brown	10-Feb-07	27-Mar-07	10	
66	Round under plate, 38 cm Black	10-Feb-07	10-Mar-07	30	
67	Magazine holder, Black	10-Feb-07	10-Mar-07	24	
68	Rect. Box s/3 iron handle, Black	10-Feb-07	10-Mar-07	45	
69	Rect. Box s/3 iron handle, Brown	10-Feb-07	10-Mar-07	35	
70	Round box rope handle s/3, Black	10-Feb-07	10-Mar-07	10	
71	Round box rope handle s/3, Brown	10-Feb-07	10-Mar-07	20	
72	Square box rope handle s/3, Black	10-Feb-07	10-Mar-07	10	
73	Square box rope handle s/3, Brown	10-Feb-07	10-Mar-07	10	
74	Square box iron top s/3, Black	10-Feb-07	10-Mar-07	9	
75	Square box natural line on top s/3, Black	10-Feb-07	10-Mar-07	10	745
76	Egg shell set of 3	10-Feb-07	9-Apr-07	150	
77	Round under plate, 38 cm Black	10-Feb-07	9-Apr-07	50	
78	Round under plate, 38 cm Brown	10-Feb-07	9-Apr-07	50	
79	Magazine holder, Black	10-Feb-07	9-Apr-07	50	
80	Magazine holder, Brown	10-Feb-07	9-Apr-07	30	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
81	Rect. Box s/3 iron handle, Black	10-Feb-07	9-Apr-07	45	
82	Rect. Box s/3 iron handle, Brown	10-Feb-07	9-Apr-07	35	
83	Round box rope handle s/3, Black	10-Feb-07	9-Apr-07	10	
84	Round box rope handle s/3, Brown	10-Feb-07	9-Apr-07	20	
85	Square box rope handle s/3, Black	10-Feb-07	9-Apr-07	10	
86	Square box rope handle s/3, Brown	10-Feb-07	9-Apr-07	10	
87	Rect box iron top s/3, Black	10-Feb-07	9-Apr-07	10	
88	Rect box iron top s/3, Brown	10-Feb-07	9-Apr-07	10	
89	Square box iron top s/3, Black	10-Feb-07	9-Apr-07	20	
90	Square box iron top s/3, Brown	10-Feb-07	9-Apr-07	10	
91	Square box natural line on top s/3, Black	10-Feb-07	9-Apr-07	10	
92	Pandan magazine oval basket	22-Feb-07	22-Apr-07	50	
93	Pandan Magazine Holder	22-Feb-07	22-Apr-07	50	
94	Pandan fruit bowl	22-Feb-07	22-Apr-07	50	
95	Pandan CD box	22-Feb-07	22-Apr-07	100	
96	Pandanus Round Laundry natural	26-Feb-07	25-Apr-07	800	
97	Pandanus Round Laundry black	26-Feb-07	25-Apr-07	200	
98	Pandanus rect tray with bamboo handle set of 3	9-Feb-07	13-Apr-07	20	
99	Lidi rectangular box set of 3, in Natural	9-Feb-07	13-Apr-07	20	
100	TRAY (COCO STRAW W/OSCAR INSIDE) S	9-Feb-07	13-Apr-07	60	
101	TRAY (COCO STRAW W/OSCAR INSIDE) M	9-Feb-07	13-Apr-07	80	
102	TRAY (COCO STRAW W/OSCAR INSIDE) L	9-Feb-07	13-Apr-07	100	
103	Pandanus round placemat L	9-Feb-07	13-Apr-07	20	
104	Pandanus round placemat M	9-Feb-07	13-Apr-07	15	
105	Lidi rectangular placemat 45 x 35 cm with box set of 6	9-Feb-07	13-Apr-07	50	2135
	total bujan februari				2880
106	MENDONG DRAWER BOX W/ COVER LOW	28-Mar-07	15-May-07	56	
107	MENDONG DRAWER BOX W/ COVER TALL	28-Mar-07	15-May-07	52	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
108	PANDANUS ROPE CD BOX	28-Mar-07	15-May-07	64	
109	PANDANUS ROPE ROUND HAMPER S/3	28-Mar-07	15-May-07	50	
110	PANDANUS ROPE RITZ LAUNDRY BOX	28-Mar-07	15-May-07	50	
111	PANDANUS ROPE STORAGE BOX	28-Mar-07	15-May-07	56	
112	TISSUE COVER - NA	17-Mar-07	22-May-07	168	
113	DUST BOX - NA	17-Mar-07	22-May-07	104	
114	OVAL MAGAZINE STORAGE - NA	17-Mar-07	22-May-07	104	
115	RECT. MAGAZINE STORAGE - NA	17-Mar-07	22-May-07	104	
116	CD STORAGE W/ COVER - NA	17-Mar-07	22-May-07	108	
117	DVD STORAGE W/ COVER - NA	17-Mar-07	22-May-07	108	
118	PANDANUS ROPE ROUND LAUNDRY S/2	17-Mar-07	22-May-07	50	
119	PANDANUS ROPE ROUND WASTE BIN	17-Mar-07	22-May-07	108	
120	PANDANUS DUAL FACE PLACEMAT S/4	17-Mar-07	22-May-07	400	
121	PANDANUS DUAL FACE COASTER S/4	17-Mar-07	22-May-07	400	1982
122	SLIPPER BOX NA	9-Mar-07	24-Apr-07	60	
123	BASKET W/ COVER - A - NA	9-Mar-07	24-Apr-07	54	
124	BASKET W/ COVER - B - NA	9-Mar-07	24-Apr-07	120	
125	PANDANUS ROPE ROUND WASTE BIN	9-Mar-07	24-Apr-07	1200	
126	PANDANUS ROPE ROUND WASTE BIN	9-Mar-07	24-Apr-07	1200	
127	MAGAZINE BASKET NA	9-Mar-07	24-Apr-07	136	
128	DUST BOX NA	9-Mar-07	24-Apr-07	102	
129	MAGAZINE BOX NA	9-Mar-07	24-Apr-07	150	
130	SLIPPER BOX NA	9-Mar-07	24-Apr-07	204	
131	TISSUE COVER NA	9-Mar-07	24-Apr-07	120	
132	BASKET W/ COVER - B - NA	9-Mar-07	24-Apr-07	108	
133	BASKET W/ COVER - D - NA	9-Mar-07	24-Apr-07	204	
134	PANDANUS ROPE ROUND WASTE BIN	9-Mar-07	24-Apr-07	304	
135	MAGAZINE BASKET BK	9-Mar-07	24-Apr-07	152	4114

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
136	Pandan Square Tray w/ hand hole S/3	12-Mar-07	8-May-07	30	
137	WH/9010/1-3 Waterhyacinth basket	14-Mar-07	16-Mar-07	50	
138	MHB/0701/1 Pandanus file holder	14-Mar-07	16-Mar-07	40	
139	PPB/0681/1 Pandanus pencil holder	14-Mar-07	16-Mar-07	120	
140	FTB/0691/1 Pandanus paper tray	14-Mar-07	16-Mar-07	40	
141	RB/0041/1-3 Pandanus rect box	14-Mar-07	16-Mar-07	135	
142	C/0151/1 Pandanus square coaster	14-Mar-07	16-Mar-07	60	
143	CD/0051/1 Pandanus CD box with lid	14-Mar-07	16-Mar-07	80	
144	Pandanus Round Laundry natural	14-Mar-07	16-Mar-07	750	
145	Abaca storage box set of 4	14-Mar-07	16-Mar-07	20	
146	Abaca storage box set of 4	14-Mar-07	16-Mar-07	20	
147	Waterhyacinth round laundry basket	14-Mar-07	16-Mar-07	60	
148	Waterhyacinth square laundry basket	14-Mar-07	16-Mar-07	60	
149	Waterhyacinth round basket	14-Mar-07	16-Mar-07	120	
150	Rectangular Box with metal handle S/5	14-Mar-07	16-Mar-07	24	
151	Pandanus Round Basket S/3 in antique	14-Mar-07	16-Mar-07	40	
152	Waterhyacinth w/ wodden frame	14-Mar-07	16-Mar-07	240	1889
153	PANDAN SIDE TABLE	16-Mar-07	25-Apr-07	4	
154	HANGING LAMP	16-Mar-07	25-Apr-07	4	
155	TABLE LAMP S	16-Mar-07	25-Apr-07	3	
156	TABLE LAMP M	16-Mar-07	25-Apr-07	3	
157	TABLE LAMP L	16-Mar-07	25-Apr-07	3	
158	RECT. BASKET	16-Mar-07	25-Apr-07	4	
159	BAMBOO RECT. TRAY	16-Mar-07	25-Apr-07	20	
160	BAMBOO BOWL S/3	16-Mar-07	25-Apr-07	20	
161	BAMBOO FRUIT BOWL	16-Mar-07	25-Apr-07	20	
162	BAMBOO ROUND PLATE IN NATURAL	16-Mar-07	25-Apr-07	20	
163	PANDAN UMBRELLA HOLDER	16-Mar-07	25-Apr-07	20	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
164	TAPPARED MAGAZINE	16-Mar-07	25-Apr-07	20	
165	PANDAN CD BOX L	16-Mar-07	25-Apr-07	10	
166	PANDAN CD BOX M	16-Mar-07	25-Apr-07	10	
167	MENDONG CD BOX	16-Mar-07	25-Apr-07	10	
168	NEWSPAPER BASKET	16-Mar-07	25-Apr-07	4	
169	WATERHYACINTH BASKET S/3	16-Mar-07	25-Apr-07	10	185
170	Magazine tapped basket with lining, Black	7-Mar-07	21-Sep-07	50	
171	Magazine tapped basket with lining, Brown	7-Mar-07	21-Sep-07	50	
172	Magazine divided basket, Black	7-Mar-07	21-Sep-07	50	
173	Magazine divided basket, Brown	7-Mar-07	21-Sep-07	50	
174	Oval magazine basket, Black	7-Mar-07	21-Sep-07	50	
175	Oval magazine basket, Brown	7-Mar-07	21-Sep-07	50	
176	Magazine tote bag, Black	7-Mar-07	21-Sep-07	100	
177	Magazine tote bag, Brown	7-Mar-07	21-Sep-07	100	
178	Rect box with iron handle set of 5, Black	7-Mar-07	21-Sep-07	25	
179	Rect box with iron handle set of 5, Brown	7-Mar-07	21-Sep-07	25	
180	Square laundry box with iron handle set of 3, Black	7-Mar-07	21-Sep-07	25	
181	Square laundry box with iron handle set of 3, Brown	7-Mar-07	21-Sep-07	25	
182	Square placemat s/6 in pack, Brown/Black - Small weaving	7-Mar-07	21-Sep-07	80	
183	Square coaster s/6 in pack, Brown/Black - Small weaving	7-Mar-07	21-Sep-07	80	760
	total bulan maret				8930
184	KIRAN PANIER ANSE S/3	12-Apr-07	2-Sep-07	90	
185	PICTURE FRAME 3 R HERRINGBONE	12-Apr-07	2-Sep-07	480	
186	KIRAN BOITE RECT. MARRON S/5	12-Apr-07	2-Sep-07	80	
187	KIRAN BOITE RECT. ANTIQUE S/5	12-Apr-07	2-Sep-07	132	
188	PICTURE FRAME 3 R HERRINGBONE	12-Apr-07	10-Sep-07	1920	
189	KIRAN BOITE RECT. MARRON S/5	12-Apr-07	12-Sep-07	40	
190	KIRAN BOITE RECT. ROUGE S/5	12-Apr-07	12-Sep-07	40	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
191	KIRAN PANIER ANSE S/3	12-Apr-07	12-Sep-07	90	2872
192	DRAWER BASKET SET OF 5	9-Apr-07	2-Jun-07	204	
193	MAGAZINE BOX - NA	13-Apr-07	3-Jul-07	270	
194	MAGAZINE BOX - BR	13-Apr-07	3-Jul-07	102	
195	PANDANUS ROPE ROUND WASTE BIN	13-Apr-07	3-Jul-07	384	
196	SLIPPER BOX - BR	13-Apr-07	3-Jul-07	108	
197	TISSUE BOX - NA	13-Apr-07	3-Jul-07	360	
198	TISSUE BOX - BR	13-Apr-07	3-Jul-07	168	
199	BASKET W/ COVER A - NA	13-Apr-07	3-Jul-07	126	
200	BASKET W/ COVER A - BR	13-Apr-07	3-Jul-07	72	
201	BASKET W/ COVER B - NA	13-Apr-07	3-Jul-07	228	
202	BASKET W/ COVER B - BR	13-Apr-07	3-Jul-07	60	
203	BASKET W/ COVER C - NA	13-Apr-07	3-Jul-07	60	
204	BASKET W/ COVER C - BR	13-Apr-07	3-Jul-07	60	
205	BASKET W/ COVER D - NA	13-Apr-07	3-Jul-07	180	
206	BASKET W/ COVER D - BR	13-Apr-07	3-Jul-07	60	2442
207	Bottle Neck Rattan Vase set/3 dark brown washed	26-Apr-07	25-Aug-07	30	
208	Tall Round Rattan Vase set/3 dark brown washed	26-Apr-07	25-Aug-07	30	
209	Pandanus rect box w/ natural stitching set of 3 in Black	26-Apr-07	25-Aug-07	30	
210	Pandanus square box with bamboo handle set of 3	26-Apr-07	25-Aug-07	30	
211	Pandanus rect. Box with lid set of 3	26-Apr-07	25-Aug-07	30	
212	Pandanus rect tray with bamboo handle set of 3	26-Apr-07	25-Aug-07	40	
213	Pandanus rect. Box with black lid set of 3	26-Apr-07	25-Aug-07	30	
214	Pandanus round placemat	26-Apr-07	25-Aug-07	30	
215	Rect. Box set/3 Bamboo handles vinyl lid mendong	26-Apr-07	25-Aug-07	30	
216	Rect. Chest set/3 choc vinyl edging mendong	26-Apr-07	25-Aug-07	30	
217	Wall Hanging 180 x 35 x 43 cm	26-Apr-07	25-Aug-07	100	
218	Wall hanging 90 x 36 x 43 cm	26-Apr-07	25-Aug-07	50	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
219	Wall hanging 180 x 36/43 cm in white	26-Apr-07	25-Aug-07	50	
220	Wall hanging 180 x 36/43 cm in Black	26-Apr-07	25-Aug-07	50	
221	Wall hanging 90 x 36/43 cm	26-Apr-07	25-Aug-07	100	
222	Wall hanging 90 x 36/43 cm, in Black	26-Apr-07	25-Aug-07	50	
223	Bamboo sticks bunch of 10 natural slim H. 170 cm	26-Apr-07	25-Aug-07	60	
224	Mendong square coaster set of 6 with box, in Black	26-Apr-07	25-Aug-07	60	
225	Lidi square napkin ring set of 6 with box, in Natural	26-Apr-07	25-Aug-07	50	
226	Pandanus round placemat	26-Apr-07	25-Aug-07	500	
227	Mendong place mat black w/out cardboard 46 x 36	26-Apr-07	25-Aug-07	300	
228	Pandanus Rect. Storage Large in Natural	26-Apr-07	25-Aug-07	100	
229	Mendong table runner 150 x 36 cm, in Black	26-Apr-07	25-Aug-07	60	
230	Tray Rect. with natural mendong insert black	26-Apr-07	25-Aug-07	20	
231	Pandanus square coaster with box set of 6	26-Apr-07	25-Aug-07	50	
232	square coaster with box set of 6 natural mendong	26-Apr-07	25-Aug-07	50	
233	square coaster with box set of 6 mendong	26-Apr-07	25-Aug-07	50	
234	Pandanus rectangular placemat 45 x 35 cm	26-Apr-07	25-Aug-07	250	
235	Lidi rectangular placemat 45 x 35 cm with box set of 6	26-Apr-07	25-Aug-07	100	
236	Mendong natural insert black placemat 45 x 35 cm	26-Apr-07	25-Aug-07	20	
237	Place mat Box set 6 Mendong Brown & White thread	26-Apr-07	25-Aug-07	30	
238	Mendong natural insert black table runner	26-Apr-07	25-Aug-07	60	
239	Mendong brown & white thread table runner	26-Apr-07	25-Aug-07	30	2500
					7814
					total bulan april
240	Pandanus Placemat	22-May-07	14-Jul-07	400	
241	Rect. Basket w/ Lining Large	22-May-07	14-Jul-07	120	
242	Rect. Basket w/ Lining Medium	22-May-07	14-Jul-07	120	
243	Rect. Basket w/ Lining Small	22-May-07	14-Jul-07	120	
244	Pandanus Round Laundry w/ liner	22-May-07	14-Jul-07	96	
245	Pandanus Rect. Storage Large in brown	31-May-07	22-Jul-07	2402	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
246	PANDANUS ROPE ROUND LAUNDRY S/2	31-May-07	22-Jul-07	4525	7783
247	Pandanus Rect. Storage Large in Natural	31-May-07	1-Sep-07	2122	2122
	total bulan mei				9905
248	PICTURE FRAME 3 R HERRINGBONE	28-Jun-07	Nov-07	360	
249	PICTURE FRAME 3 R PLAIN	28-Jun-07	Nov-07	360	
250	Pandanus Round Laundry natural	28-Jun-07	Nov-07	300	
251	Pandanus Round Laundry brown	28-Jun-07	Nov-07	200	
252	Pandanus Round Laundry green	28-Jun-07	Nov-07	200	
253	ROUND BASKET S/3	28-Jun-07	Nov-07	600	
254	PICTURE FRAME 3 R HERRINGBONE	28-Jun-07	5-Nov-07	720	
255	Pandanus Round Laundry natural	28-Jun-07	5-Nov-07	300	
256	ELIM BOITE RECT ORANGE S/5	28-Jun-07	5-Nov-07	14	
257	ELIM BOITE RECT VERT P. S/5	28-Jun-07	5-Nov-07	40	
258	ELIM BOITE RECT MAR. CLAIR S/5	28-Jun-07	5-Nov-07	48	
259	ELIM BOITE RECT TURQUOISE S/5	28-Jun-07	5-Nov-07	52	
260	ELIM PANIER A LINGE ORANGE S/3	28-Jun-07	5-Nov-07	50	
261	ELIM PANIER A LINGE VERT P. S/3	28-Jun-07	5-Nov-07	50	
262	ELIM PANIER A LINGE MAR. CLAIR S/3	28-Jun-07	5-Nov-07	50	
263	ELIM PANIER A LINGE TURQUOISE	28-Jun-07	5-Nov-07	50	
264	ELIM CORBEILLE/ANSE ORANGE S/3	28-Jun-07	5-Nov-07	150	
265	ELIM CORBEILLE/ANSE VERT P. S/3	28-Jun-07	5-Nov-07	150	
266	ELIM CORBEILLE/ANSE MAR CLAIR	28-Jun-07	5-Nov-07	150	
267	ELIM CORBEILLE/ANSE TURQUOISE	28-Jun-07	5-Nov-07	150	3994
268	Waterhyacinth basket set of 3 in natural	10-Jun-07	12-Sep-07	300	300
269	Hanging Lamp	13-Jun-07	1-Jul-07	20	
270	Pandan triangle waste basket	15-Jun-07	5-Jul-07	100	
271	Pandan triangle trash can	15-Jun-07	15-Jul-07	350	470
272	Pandan triangle trash can	15-Jun-07	7-Aug-07	375	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
273	Pandan triangle waste basket	15-Jun-07	25-Aug-07	360	
274	Pandan oval basket	15-Jun-07	25-Aug-07	500	
275	Pandan oval basket	15-Jun-07	25-Aug-07	50	
276	Pandan oval basket	15-Jun-07	25-Aug-07	50	
277	PLACEMENT - PANDAN - BLACK	21-Jun-07	9-Aug-07	100	
278	PLACEMENT - PANDAN - BROWN	21-Jun-07	9-Aug-07	100	1535
	total bulan juni				6299
279	Pandanus round hamper w/ cover w/ liner .	26-Jul-06	25-Aug-06	3	
280	CD Box 35 cm w/ Hand Hole w/ Leather	26-Jul-06	25-Aug-06	40	
281	COCO STRAW DRAWER BOX - LOW	26-Jul-06	25-Aug-06	24	
282	COCO STRAW DRAWER BOX - MEDIUM	26-Jul-06	25-Aug-06	30	
283	COCO STRAW DRAWER BOX - HIGH	26-Jul-06	25-Aug-06	32	
284	Pandanus Round Laundry	6-Jul-07	20-Aug-07	432	
285	A. W - Cocon Tissue Case	6-Jul-07	20-Aug-07	432	
286	E. G - Tenun Tissue Case	6-Jul-07	20-Aug-07	648	
287	ROUND LAUNDRY BOX SET OF 3 natural	Jul-07	9-Aug-07	50	
288	ROUND LAUNDRY BOX SET OF 3 green	Jul-07	9-Aug-07	50	
289	ROUND LAUNDRY BOX SET OF 3 brown	Jul-07	9-Aug-07	50	
290	Dual Face Coster TQ/DBR	Jul-07	9-Aug-07	50	
291	Dual Face Placemat NA/DBR	Jul-07	9-Aug-07	30	
292	Dual Face Placemat OR/DBR	Jul-07	9-Aug-07	30	
293	Dual Face Placemat GR/DBR	Jul-07	9-Aug-07	30	
294	Dual Face Placemat TQ/DBR	Jul-07	9-Aug-07	20	1951
295	Pandanus Waste Bin w/ Bamboo List	15-Jul-07	7-Sep-07	400	
296	Pandanus Round Laundry green	15-Jul-07	7-Sep-07	280	
297	Waterhyacinth S/3	18-Jul-07	29-Sep-07	1480	2160
298	Pandanus Rect. Storage Large in brown	18-Jul-07	18-Nov-07	1640	
299	Pandanus Rect. Storage Large in Natural	18-Jul-07	9-Nov-07	600	2240

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
	total bulan juli				6351
300	Natural Pandanus Rope Rug	3-Aug-07	14-Sep-07	1	
301	Wall Tile W/ Pandanus (Brown Wash)	3-Aug-07	14-Sep-07	31	
302	Natural Pandanus Rope Welcome Mat	3-Aug-07	14-Sep-07	10	
303	Dual Face Coaster DBR/OR	3-Aug-07	14-Sep-07	30	
304	Dual Face Coaster DBR/GR	3-Aug-07	14-Sep-07	30	
305	Dual Face Coaster DBR/RD	3-Aug-07	14-Sep-07	30	
306	Pandanus Round Hamper DBR	3-Aug-07	14-Sep-07	2	
307	Pandanus Round Hamper BR - WASH	3-Aug-07	14-Sep-07	2	
308	Pandanus Picture Frame M (4R) DBR	3-Aug-07	14-Sep-07	5	
309	Pandanus Picture Frame M (4R) Br - Wash	3-Aug-07	14-Sep-07	10	
310	Pandanus Picture Frame S (3R) DBR	3-Aug-07	14-Sep-07	10	
311	Pandanus Picture Frame S (3R) Br - Wash	3-Aug-07	14-Sep-07	20	
312	Round Tray w/ wooden handle DBR	3-Aug-07	14-Sep-07	5	
313	Round Tray w/ wooden handle Br - Wash	3-Aug-07	14-Sep-07	2	
314	Round Tray w/ wooden handle Natural	3-Aug-07	14-Sep-07	3	
315	Pandan Rope Laundry Hamper L - BR	3-Aug-07	14-Sep-07	2	
316	Pandan Rope Laundry Hamper S - BR	3-Aug-07	14-Sep-07	2	
317	Pandan Rope Waste Bin L - BR	3-Aug-07	14-Sep-07	4	
318	Pandan Rope Waste Bin S - BR	3-Aug-07	14-Sep-07	4	
319	Pandan Rope Toiletries Tray	3-Aug-07	14-Sep-07	3	
320	Pandan Rope Rect. Tray L - BR	3-Aug-07	14-Sep-07	5	
321	Pandan Rope Rect. Tray S - BR	3-Aug-07	14-Sep-07	5	
322	Pandan Rope Placemat S/4 - BR	3-Aug-07	14-Sep-07	5	
323	Pandan Rope Sq. Coaster S/4 - BR	3-Aug-07	14-Sep-07	5	
324	Pandan Rope Oval Placemat S/4 - BR	3-Aug-07	14-Sep-07	5	
325	Pandan Rope Round Coaster S/4 - BR	3-Aug-07	14-Sep-07	5	
326	Pandan Rope CD Box - BR	3-Aug-07	14-Sep-07	3	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
327	Pandan Rope CD Box Low - BR	3-Aug-07	14-Sep-07	3	
328	Pandan Rope CD Box w/ Cover - BR	3-Aug-07	14-Sep-07	3	
329	Pandan Rope DVD Box - BR	3-Aug-07	14-Sep-07	3	
330	Pandan Rope DVD Box Low - BR	3-Aug-07	14-Sep-07	3	
331	Pandan Rope DVD Box w/ Cover - BR	3-Aug-07	14-Sep-07	3	
332	Pandanus Placemat Jejet	3-Aug-07	14-Sep-07	500	
333	Pandan Flat Laundry Hamper L Br - Wash	3-Aug-07	14-Sep-07	1	
334	Pandan Flat Laundry Hamper S Br - Wash	3-Aug-07	14-Sep-07	1	
335	Pandan Flat Laundry Hamper L DBR	3-Aug-07	14-Sep-07	1	
336	Pandan Flat Laundry Hamper S DBR	3-Aug-07	14-Sep-07	1	
337	Pandan Flat Waste Bin L Br - Wash	3-Aug-07	14-Sep-07	10	
338	Pandan Flat Waste Bin S Br - Wash	3-Aug-07	14-Sep-07	10	
339	Pandan Flat Waste Bin L DBR	3-Aug-07	14-Sep-07	10	
340	Pandan Flat Waste Bin S DBR	3-Aug-07	14-Sep-07	10	
341	Pandan Flat Recta. Tissue Box Br - Wash	3-Aug-07	14-Sep-07	10	
342	Pandan Flat Recta. Tissue Box DBR	3-Aug-07	14-Sep-07	10	
343	Pandan Rope Recta. Tissue Box DBR	3-Aug-07	14-Sep-07	10	
344	Pandan Rope SQ Tissue Box DBR	3-Aug-07	14-Sep-07	10	
345	Pandan Flat SQ Tissue Box Br - Wash	3-Aug-07	14-Sep-07	10	
346	Pandan Flat SQ Tissue Box DBR	3-Aug-07	14-Sep-07	6	
347	Pandan Flat Toilettes Tray DBR	3-Aug-07	14-Sep-07	3	
348	Pandan Flat Recta. Tray L DBR	3-Aug-07	14-Sep-07	3	
349	Pandan Flat Recta. Tray S DBR	3-Aug-07	14-Sep-07	3	
350	Pandan Flat CD Box Br - Wash	3-Aug-07	14-Sep-07	3	
351	Pandan Flat CD Box Low DBR	3-Aug-07	14-Sep-07	3	
352	Pandan Flat CD Box w/ cover DBR	3-Aug-07	14-Sep-07	3	
353	Pandan Flat DVD Box Br - Wash	3-Aug-07	14-Sep-07	3	
354	Pandan Flat DVD Box w/ cover DBR	3-Aug-07	14-Sep-07	3	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
355	Pandan Flat DVD Box Low Br - Wash	3-Aug-07	14-Sep-07	3	
356	Placemat Dual Face in Brown/Black	3-Aug-07	14-Sep-07	13	
357	Placemat Dual Face in Red/Antique	3-Aug-07	14-Sep-07	8	
358	Placemat Dual Face in Black/Antique	3-Aug-07	14-Sep-07	9	
359	ROUND BASKET S/3	25-Aug-07	1-Sep-07	2122	3033
360	Waterhyacinth Tray S/3	30-Aug-07	Oct-07	200	
361	Pandanus Tray S/3 in Natural	30-Aug-07	Oct-07	300	
362	Pandanus Tray S/3 in Coklat tua	30-Aug-07	Oct-07	300	
363	Pandanus Tray S/2 in Natural	30-Aug-07	Oct-07	300	
364	Pandanus Tray S/2 in Coklat tua	30-Aug-07	Oct-07	300	
365	Square Deep Waterhyacinth Storage S/3	30-Aug-07	Oct-07	60	
366	Pandanus Round Laundry natural	13-Aug-07	6-Oct-07	700	
367	Waterhyacinth Rect. Basket w/ lining	13-Aug-07	6-Oct-07	12	
368	Pandan Charger Plate in D. Brown	13-Aug-07	6-Oct-07	24	
369	Rect box with iron handle set of 3, Black	25-Aug-07	5-Oct-07	35	
370	Rect box with iron handle set of 3, Brown	25-Aug-07	5-Oct-07	25	
371	Waterhyacinth square basket with vinyl handle s/3, Brown	25-Aug-07	5-Oct-07	60	
372	Waterhyacinth square box with lid s/3, Brown	25-Aug-07	5-Oct-07	40	
373	Square placemat s/6 in pack, Brown/Black - Small weaving	25-Aug-07	5-Oct-07	50	
374	DRAWER BASKET SET OF 7	10-Aug-07	2-Oct-07	60	
375	DUST BOX - NA	10-Aug-07	2-Oct-07	192	
376	DUST BOX - BR	10-Aug-07	2-Oct-07	204	
377	MAGAZINE BOX - NA	10-Aug-07	2-Oct-07	324	
378	MAGAZINE BOX - BR	10-Aug-07	2-Oct-07	342	
379	SLIPPER BOX - NA	10-Aug-07	2-Oct-07	228	
380	SLIPPER BOX - BR	10-Aug-07	2-Oct-07	168	
381	Pandanus Round Laundry green	10-Aug-07	2-Oct-07	360	
382	Pandanus Round Laundry natural	10-Aug-07	2-Oct-07	288	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
383	BASKET W/ COVER A - NA	10-Aug-07	2-Oct-07	108	
384	BASKET W/ COVER A - BR	10-Aug-07	2-Oct-07	54	
385	BASKET W/ COVER B - NA	10-Aug-07	2-Oct-07	108	
386	BASKET W/ COVER B - BR	10-Aug-07	2-Oct-07	84	
387	BASKET W/ COVER C - NA	10-Aug-07	2-Oct-07	60	
388	BASKET W/ COVER D - NA	10-Aug-07	2-Oct-07	108	
389	BASKET W/ COVER D - BR	10-Aug-07	2-Oct-07	156	
390	DUST BOX - L	10-Aug-07	2-Oct-07	80	
391	DUST BOX - S	10-Aug-07	2-Oct-07	324	5654
	total bulan agustus				8687
392	Rafia Round Basket S/3	24-Sep-07	Dec-07	20	
393	Rafia Round Box S/3	24-Sep-07	Dec-07	20	
394	Gebang Round Hamper S/2	24-Sep-07	Dec-07	20	
395	Tray w/ Bamboo	24-Sep-07	Dec-07	20	
396	Round Basket S/2	24-Sep-07	Dec-07	20	
397	Rect. Box S/2 w/ Leather Handle	24-Sep-07	Dec-07	30	
398	Pandanus Round Laundry	24-Sep-07	Dec-07	540	
399	Round Box S/3	24-Sep-07	Dec-07	10	680
400	Waterhyacinth S/3	Sep-07	10-Dec-07	780	
401	Square Charger Plate	12-Sep-07	25-Oct-07	6	
402	Tissue Box	12-Sep-07	25-Oct-07	10	
403	Magazine Tote Bag	12-Sep-07	25-Oct-07	10	
404	Magazine Holder w/ Handle	12-Sep-07	25-Oct-07	10	
405	Magazine Basket w/ Lining	12-Sep-07	25-Oct-07	10	
406	Pandanus Round Laundry w/ Cotton in Side	12-Sep-07	25-Oct-07	10	
407	Round Coaster in Antique	12-Sep-07	25-Oct-07	24	
408	Round Coaster in Natural	12-Sep-07	25-Oct-07	24	
409	Square Coaster in Antique	12-Sep-07	25-Oct-07	36	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
410	Round Placemat	12-Sep-07	25-Oct-07	24	
411	Fruit Bowl S/3 in Antique	12-Sep-07	25-Oct-07	39	
412	Pandanus Rect. Tray	12-Sep-07	25-Oct-07	12	
413	Bamboo Napkin Ring	12-Sep-07	25-Oct-07	18	
414	Bamboo Coffee Table in White Washed	12-Sep-07	25-Oct-07	3	
415	Bamboo Serving Tray in White Washed	12-Sep-07	25-Oct-07	10	
416	Waterhyacinth Laundry Box	12-Sep-07	25-Oct-07	11	
417	Waterhyacinth Round Cushion	12-Sep-07	25-Oct-07	12	1049
418	DUST BOX	24-Sep-07	Nov-07	800	
419	MAGAZINE BOX	24-Sep-07	Nov-07	810	
420	TISSUE BOX	24-Sep-07	Nov-07	816	
421	Pandanus Round Laundry	24-Sep-07	Nov-07	600	
422	Pandanus Round Laundry	24-Sep-07	Nov-07	1008	
423	CD Box w/ Hand Hole	12-Sep-07	Nov-07	5	
424	CD Box w/ Vynil Lid	12-Sep-07	Nov-07	5	
425	CD Box w/ Bamboo Handle	12-Sep-07	Nov-07	5	
426	Newspaper Basket w/ Wodden Handle S/3	12-Sep-07	Nov-07	3	
427	Pandan Basket w/ Bamboo Trim S/3	12-Sep-07	Nov-07	3	
428	Rect. Basket S/3	12-Sep-07	Nov-07	3	
429	Mendong Round Basket S/3	12-Sep-07	Nov-07	5	
430	Dual Face Placemat set of 4	12-Sep-07	Nov-07	5	
431	Dual Face Coaster set of 4	12-Sep-07	Nov-07	5	
432	Square Charger Plate	12-Sep-07	Nov-07	6	
433	Square Tray with Hand Hole S/3	12-Sep-07	Nov-07	3	
434	Tissue Box	12-Sep-07	Nov-07	10	
435	Magazine Tote Bag	12-Sep-07	Nov-07	10	
436	Magazine Holder w/ Handle	12-Sep-07	Nov-07	10	
437	Magazine Basket w/ Lining	12-Sep-07	Nov-07	10	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
438	Tapered Magazine Basket	12-Sep-07	Nov-07	5	
439	Pandanus Round Laundry w/ Cotton in Side	12-Sep-07	Nov-07	10	
440	Pandanus Oval Basket S/3	12-Sep-07	Nov-07	5	
441	Pandanus Basket S/3	12-Sep-07	Nov-07	5	
442	Waterhyacinth Round Laundry	12-Sep-07	Nov-07	13	
443	Waterhyacinth Basket w/ Lining S/2 (Large)	12-Sep-07	Nov-07	5	
444	Round Coaster in Antique	12-Sep-07	Nov-07	24	
445	Round Coaster in Natural	12-Sep-07	Nov-07	24	
446	Square Coaster in Antique	12-Sep-07	Nov-07	36	
447	Round Placemat	12-Sep-07	Nov-07	24	
448	Waterhyacinth Laundry Box	12-Sep-07	Nov-07	11	
449	Waterhyacinth Round Cushion	12-Sep-07	Nov-07	2	4286
	total bulan september				6015
450	Pandanus Round . TURQOUISE S/5	Oct-07	Dec-07	2880	
451	Pandanus Round . ORANGE S/5	Oct-07	Dec-07	200	
452	Pandanus Round . VERT P. S/5	Oct-07	Dec-07	200	
453	Pandanus Round . MAR. CLAIR S/5	Oct-07	Dec-07	200	
454	PICTURE FRAME 3 R HERRINGBONE & PLAIN	Oct-07	Dec-07	200	
455	BASKET W/ COVER A - NA	Oct-07	Dec-07	200	
456	BASKET W/ COVER A - BR	Oct-07	Dec-07	200	
457	BASKET W/ COVER A - NA	Oct-07	Dec-07	200	
458	BASKET W/ COVER A - BR	Oct-07	Dec-07	200	
459	ELIM CORBEILLE LAUNDRY / ANSE ORANGE S/3	Oct-07	Dec-07	600	
460	ELIM CORBEILLE LAUNDRY / ANSE VERT P. S/3	Oct-07	Dec-07	600	
461	ELIM CORBEILLE LAUNDRY / ANSE MAR. CLAIR S/3	Oct-07	Dec-07	600	
462	ELIM CORBEILLE LAUNDRY / ANSE TURQOUISE S/3	Oct-07	Dec-07	600	
463	Toy Box S/3 with top	27-Oct-07	3-Dec-07	40	
464	Toy Box S/3	27-Oct-07	3-Dec-07	30	

NO.	NAMA PRODUK	ORDER	DELIVERY	JUMLAH	TOTAL
465	Pandanus Round Laundry	31-Oct-07	Dec-07	660	7610
466	PANDANUS CHINOISE	8-Oct-07	17-Nov-07	60	
467	PANDANUS CONTAINER - RECT TAPPERED	4-Oct-07	30-Nov-07	664	724
468	PANDANUS - RECT TAPPERED	4-Oct-07	5-Jan-07	536	536
469	Banana Rope Hamper Large in Natural, List D. Brown	9-Oct-07	31-Oct-07	2	
470	Banana Rope Hamper Small in Natural, List D. Brown	9-Oct-07	31-Oct-07	3	
471	Banana Rope Dust Bin in Natural, List D. Brown	9-Oct-07	31-Oct-07	10	
472	Pandan Basket w/ motive oscar L	9-Oct-07	31-Oct-07	5	
473	Pandan Basket w/ motive oscar S	9-Oct-07	31-Oct-07	5	
474	Pandanus Round Laundry	9-Oct-07	31-Oct-07	100	
475	Pandanus Round Laundry	9-Oct-07	31-Oct-07	50	
476	Pandanus Dual Face Coster S/4 - GR/DBR	9-Oct-07	31-Oct-07	100	
477	Pandanus Dual Face Placemat S/4 - GR/DBR	9-Oct-07	31-Oct-07	50	
478	Pandanus Round Laundry	9-Oct-07	31-Oct-07	100	
479	Pandanus Round Laundry	9-Oct-07	31-Oct-07	30	
480	Pandanus Dual Face Coster S/4 - NA/DBR	9-Oct-07	31-Oct-07	100	
481	Pandanus Dual Face Placemat S/4 - NA/DBR	9-Oct-07	31-Oct-07	50	
482	Pandanus CD Box DBR Handhole in D. Brown	9-Oct-07	31-Oct-07	20	
483	Herringbone Pandan Tissue Box Brown	9-Oct-07	31-Oct-07	15	
484	Herringbone Pandan Round Tappered Dust Brown	9-Oct-07	31-Oct-07	10	
485	Pandan Square Tappered Dut Bin in D. Brown	9-Oct-07	31-Oct-07	10	660
	total bulan oktober				9530

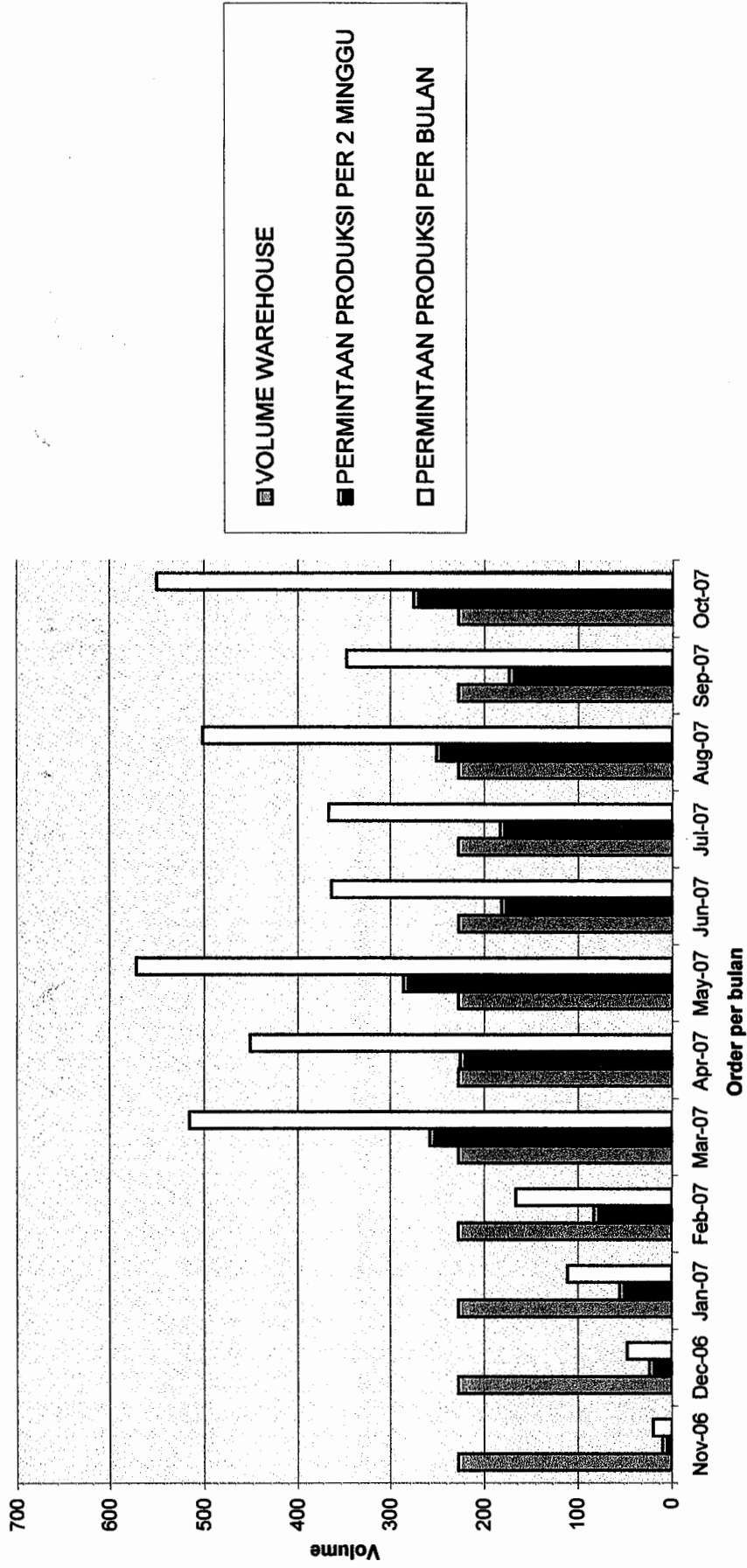
LAMPIRAN 2

PERHITUNGAN KEBUTUHAN AREA WAREHOUSE

Perbandingan kebutuhan area warehouse

NO.	ORDER	QTY		V terbesar tabung (m ³) (per 2 minggu)	V terbesar tabung (m ³) (per bulan)	V warehouse (m ³)
		per bulan	per 2 minggu			
1	Nov-06	346	173	9.9816675	19.963335	227.28
2	Dec-06	827	413.5	23.85791625	47.7158325	227.28
3	Jan-07	1928	964	55.62039	111.24078	227.28
4	Feb-07	2880	1440	83.0844	166.1688	227.28
5	Mar-07	8930	4465	257.6193375	515.238675	227.28
6	Apr-07	7814	3907	225.4241325	450.848265	227.28
7	May-07	9905	4952.5	285.7468688	571.4937375	227.28
8	Jun-07	6299	3149.5	181.7182763	363.4365525	227.28
9	Jul-07	6351	3175.5	183.2184113	366.4368225	227.28
10	Aug-07	8687	4343.5	250.6090913	501.2181825	227.28
11	Sep-07	6015	3007.5	173.5252313	347.0504625	227.28
12	Oct-07	9530	4765	274.9285875	549.857175	227.28
total permintaan		5792.666667	2896.333333	167.1111925	334.222385	
QTY per hari			241.3611111			

Tingkat kecukupan area warehouse



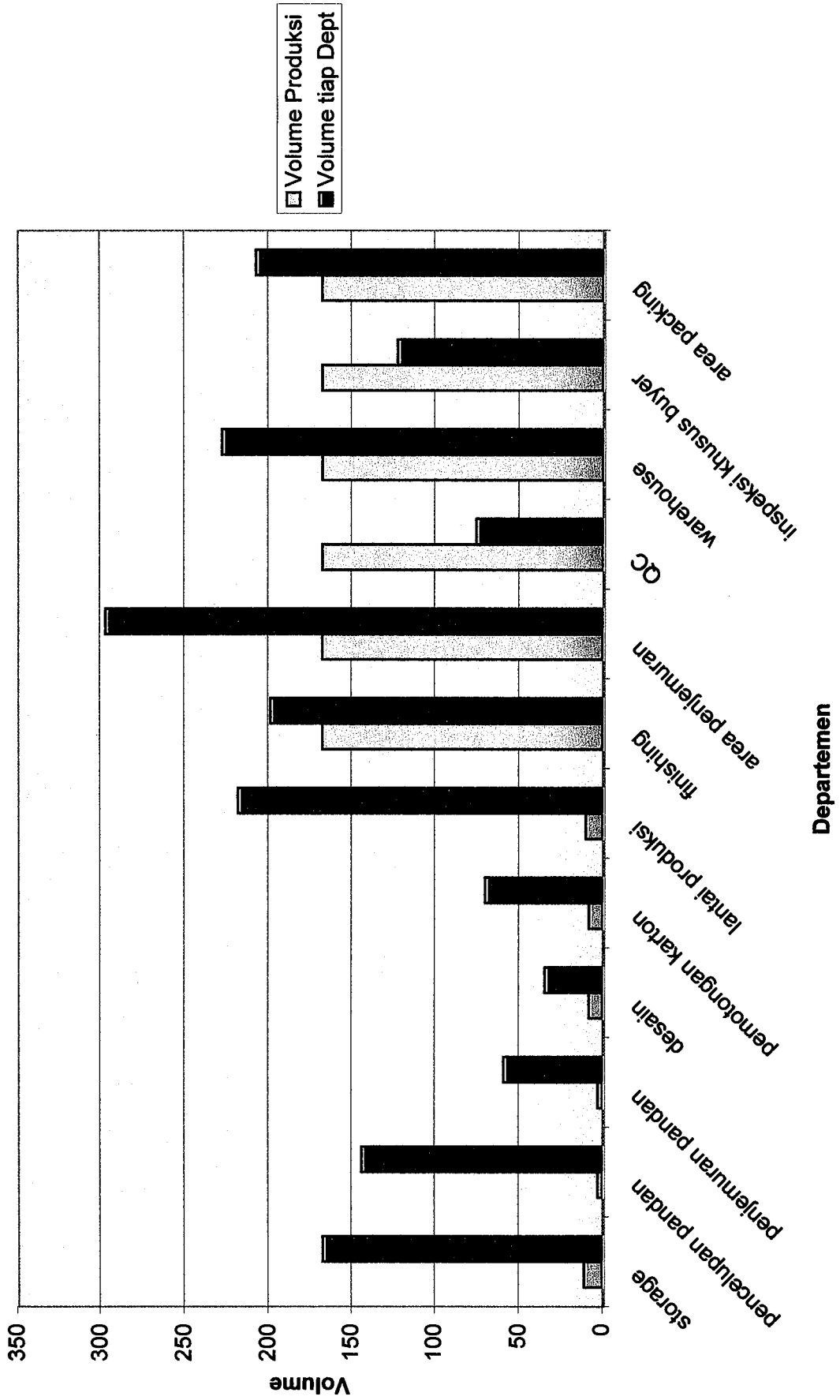
LAMPIRAN 3

PERHITUNGAN KEBUTUHAN AREA TIAP DEPARTEMEN

Perhitungan kebutuhan area tiap departemen

No.	Nama Departemen	Komponen	QTY/ 2 minggu	Volume komponen(m ³)	Total Volume (m ³)	Volume departemen(m ³)	Keputusan
1	Storage	karton coklat		0.0024			
		karton kuning		0.00192			
		pandan	2896.33	0.000845	10.8019	166.875	cukup
2	Pencelupan pandan	pandan	2896.33	0.000845	2.6921	143.5	cukup
3	Penjemuran pandan	pandan	2896.33	0.000845	2.6921	58.8	cukup
4	Desain	karton coklat		0.0024			
		karton kuning	2896.33	0.00192	8.1097	34.125	cukup
5	Pemotongan karton	karton coklat		0.0024			
		karton kuning	2896.33	0.00192	8.1097	69.75	cukup
6	Lantai produksi	karton coklat		0.000972678			
		karton kuning		0.00155			
		pandan	2896.33	0.0009275	9.9929	217.89	cukup
7	Finishing	produk jadi	2896.33	0.0576975	167.1112	198.4	cukup
8	Area penjemuran	produk jadi	2896.33	0.0576975	167.1112	237.61	cukup
9	QC	produk jadi	2896.33	0.0576975	167.1112	75	cukup
10	Warehouse	produk jadi	2896.33	0.0576975	167.1112	227.28	cukup
11	Inspeksi khusus buyer	produk jadi	2896.33	0.0576975	167.1112	121.625	cukup
12	Area packing	produk jadi	2896.33	0.0576975	167.1112	207	cukup

Tingkat Kecukupan tiap Departemen



LAMPIRAN 4

PERHITUNGAN BIAYA MATERIAL HANDLING PER HARI

PERHITUNGAN BIAYA MATERIAL HANDLING PER HARI

Dari departemen	Komponen	Ke departemen	Jarak perpindahan(m)	Frekuensi/hari	Jumlah komponen rata-rata (pieces)	Biaya MH (Rp. / m/hari)
	karton coklat	desain	22	1	1	0.334085592
	karton kuning	desain	22	1	1	0.200451355
storage	karton coklat	storage mal+pemotongan karton	33	7	20	46.77198283
	karton kuning	storage mal+pemotongan karton	33	6	40	48.1083252
	pandan	pencelupan pandan	53	9	60	47.53261214
pencelupan pandan	pandan	penjemuran pandan	12	13	30	34.32910876
	pandan	lantai produksi1	48	9	30	23.76630607
penjemuran pandan	pandan	lantai produksi2	57	9	30	23.76630607
	pandan	lantai produksi3	32	9	30	23.76630607
	karton coklat	storage mal+pemotongan karton	21	1	1	0.334085592
desain	karton kuning	storage mal+pemotongan karton	21	1	1	0.200451355
	karton coklat	lantai produksi1	32.5	8	40	106.9073893
storage	karton coklat	lantai produksi2	40.5	8	40	106.9073893
	karton coklat	lantai produksi3	18	8	40	106.9073893
mal+pemotongan karton	karton kuning	lantai produksi1	32.5	11	40	88.1985962
	karton kuning	lantai produksi2	40.5	11	40	88.1985962
lantai produksi1	karton kuning	lantai produksi3	18	11	40	88.1985962
			30.5	81	3	177.0593649
			39.5	81	3	177.0593649
lantai produksi3	produk jadi	finishing	10	81	3	177.0593649

Dari departemen	Komponen	Ke departemen	Jarak perpindahan(m)	Frekuensi/hari	Jumlah komponen rata-rata (pieces)	Biaya MH (Rp. / m/hari)
finishing	produk jadi	area penjemuran	10.5	86	4	250.6519405
area penjemuran	produk jadi	QC	6.5	86	4	250.6519405
QC	produk jadi	warehouse1	8	121	2	176.3307256
		warehouse2	17.5	121	2	176.3307256
warehouse1			39.5	81	3	177.0593649
warehouse2	produk jadi	inspeksi khusus buyer	14.5	81	3	177.0593649
inspeksi khusus buyer	produk jadi	area packing	9	121	2	176.3307256
area packing	dus(6 produk jadi)	loading/ unloading	19	41	6	29.87421384

Kegiatan	Waktu(menit)	Harga/pieces	Biaya MH total (Rp.)	Keterangan
Storage - produksi	21.8	5000	1559.633028	24 orang pegawai produksi (13 kelompok)
finishing-loading	21.2	1000	179.245283	13 pegawai diluar produksi

Proporsi bahan yang dipindahkan

Nama komponen	proporsi masing-masing (pieces)	Total proporsi (pieces)
karton coklat	40	142.55
karton kuning	48	
pandan	54.55	

Perhitungan untuk tiap komponen

Nama komponen	Jarak total(m) storage - produksi 1	Jumlah bahan yang dipindahkan(pieces)	Waktu trasportasi(menit)	Biaya MH (Rp)	Rp. / meter	Rp. /m/ pieces
karton coklat	65.5	20	2	437.6521251	6.681711833	0.334085592
karton kuning	65.5	40	1.8	525.1825501	8.0180542	0.200451355
pandan	113	60	3	596.7983524	5.281401348	0.088023356
Total waktu transportasi (menit)			6.8			

Nama komponen	jarak total(m) produksi 1 - loading	jumlah bahan yang dipindahkan(pieces)	waktu trasportasi(menit)	biaya MH (Rp)	Rp. / meter	Rp. /m/ pieces
produk jadi	123	2	3.8	179.245283	1.457278724	0.728639362

LAMPIRAN 5
HASIL ANALISIS CRAFT

out for CV.PANDANUS INTERNUSA per HARI

tal Cost =44285.81 (by Rectilinear Distance)

	Column										
Row	1	2	3	4	5	6	7	8	9	10	11
1	D	D	D	D	D	C	C	C	C	e	e
2	D				D	C				C	e
3	D				D	C				C	e
4	D				D	C				C	e
5	D				D	C				C	e
6	D	D	D	D	D	C	C	C	C	C	e
7	M	M	W	W	K	K	K	K	R	R	R
8	M	M	W	W	K			K	R		R
9	M	M	F	F	K			K	R		R
10	M	M	F	F	K			K	R	R	R
11	M	M	F	F	K				K	K	e
12	M	M	F	F	K			K	K	K	e
13	M	M	F	F	K		K	Q	Q	Q	X
14	M	M	F	F	K		K	Q		Q	X
15	M	M	F	F	K		K	Q		Q	X
16	L	L	K	K			K	Q	Q	Q	X
17	L	L	K				K	J	J	J	J
18	L	L	K				K	J			J
19	L	L	K				K	J			J
20	L	L	K				K	J			J
21	L	L	K	K	K	K	K	J			J
22	L	L	I	I	I	I	I	J			J
23	N	N	Y	I			I	J			J
24	N	N	Y	I	I	I	I	J			J
25	N	N	Y	E	E	E	E	J			J
26	N	N	Y	E	E	E	E	J	J	J	J
27	N	N	Y	P	P	P	E	O	O	O	O
28	N	N	Y	P			P	P	O		O
29	N	N	Y	P				P	O		O
30	N	N	Y	P				P	O		O
31	N	N	Y	P				P	O		O
32	N	N	G	P				P	O		O
33	G	G	G	P				P	O		O
34	G		G	P				P	O	O	O
35	G		G	P	P	P	P	a	H	H	H
36	G		G	Z	V	V	V	a	H		H
37	G		G	Z	B	B	V	a	H		H
38	A	A	G	Z	B		B	a	H		H
39	A		A	Z	B	B	B	a	H	H	H
40	A		A	Z	b	b	b	b	S	S	S
41	A		A	b				b	S		S
42	A		A	b				b	S		S
43	A		A	b				b	S		S
44	A		A	b				b	S		S
45	A		A	b				b	S		S
46	A	A	A	b				b	S		S
47	U	U	U	b	b	b	b	b	S	S	S
48	U			U	U	U	T	T	T	T	T
49	U					U	T				T
50	U	U	U	U	U	U	T	T	T	T	T

19 Iterations for CV.PANDANUS INTERNUSA per HARI

al Cost =23068.90 (by Rectilinear Distance)

	Column										
Row	1	2	3	4	5	6	7	8	9	10	11
1	W	D	E	E	E	C	C	C	C	e	e
2	W	D	D	E	E	C				C	e
3	W	D	D	E	E	C				C	e
4	W	D		D	D	C				C	e
5	D				D	C				C	e
6	D	D			D	C	C	C	C	C	e
7	X	X	D	D	K	K	K	K	R	R	R
8	X	X	D	D	K			K	R	R	R
9	D	D		D	K			K	R	R	R
10	D	D	D	K				K	R	R	R
11	K	K	K						K	K	e
12	K									K	e
13	K			K	K	K	K	K			K
14	K		K	L	L	L	L	J	K	K	K
15	K	K	K	L		L	L	J	K	K	K
16	M	M	K	L	L	J	J	J	F	F	K
17	M	M	K	L	L	J	J	G	G	F	H
18	M	M	K	L	L	J	J	G	G	F	H
19	M	M	K	M	L	J	J	G	G	H	Q
20	M	M	K	M	J		J	G	G	H	Q
21	M	M	M	J	J	J	J	G	G	H	Q
22	M	M	I	I	I	I	I	G	F	H	Q
23	N	N	Y	I			I	G	F	H	Q
24	N	N	Y	I	I	I	I	G	F	H	Q
25	N	N	Y	Y	J	G	G	G	F	H	Q
26	N	N	Y	Y	J	J	J	G	F	H	Q
27	N	N	Y	O	J			J	F	H	Q
28	N	N	Y	O	J			J	F	H	Q
29	N	N	Y	O	J			J	F	H	Q
30	N	N	Y	O	J			J	F	H	Q
31	N	N	Y	O	O	J	J	J	F	H	P
32	N	N	O			O	O	P	P	P	P
33	O	O					O	P			P
34	O	O	O	O	O	O	O	P			P
35	P	P	P	P	P	P	P	a	P		P
36	P		P	Z	V	V	V	a	P		P
37	P	P	P	Z	B	B	V	a	P		P
38	A	A	P	Z	B		B	a	P		P
39	A		A	Z	B	B	B	a	P	P	P
40	A		A	Z	b	b	b	b	S	S	S
41	A		A	b				b	S		S
42	A		A	b				b	S		S
43	A		A	b				b	S		S
44	A		A	b				b	S		S
45	A		A	b				b	S		S
46	A	A	A	b				b	S		S
47	U	U	U	b	b	b	b	b	S	S	S
48	U			U	U	U	T	T	T	T	T
49	U					U	T				T
50	U	U	U	U	U	U	T	T	T	T	T

1 Iteration for CV.PANDANUS INTERNUSA per HARI

al Cost =44235.87 (by Rectilinear Distance)

	Column										
Row	1	2	3	4	5	6	7	8	9	10	11
1	X	D	D	D	D	C	C	C	C	e	e
2	X	D			D	C				C	e
3	X	D			D	C				C	e
4	X	D			D	C				C	e
5	D				D	C				C	e
6	D	D			D	C	C	C	C	C	e
7	M	M	D	D	K	K	K	K	R	R	R
8	M	M	D	D	K			K	R		R
9	M	M	F	F	K			K	R		R
10	M	M	F	F	K			K	R	R	R
11	M	M	F	F	K			K	K		e
12	M	M	F	F	K			K	K	K	e
13	M	M	F	F	K		K	Q	Q	Q	W
14	M	M	F	F	K		K	Q		Q	W
15	M	M	F	F	K		K	Q		Q	W
16	L	L	K	K			K	Q	Q	Q	W
17	L	L	K				K	J	J	J	J
18	L	L	K				K	J			J
19	L	L	K				K	J			J
20	L	L	K				K	J			J
21	L		L	K	K	K	K	J			J
22	L	L	I	I	I	I	I	J			J
23	N	N	Y	I			I	J			J
24	N	N	Y	I	I	I	I	J			J
25	N	N	Y	E	E	E	E	J			J
26	N	N	Y	E	E	E	E	J	J	J	J
27	N	N	Y	P	P	P	E	O	O	O	O
28	N	N	Y	P			P	P	O		O
29	N	N	Y	P				P	O		O
30	N	N	Y	P				P	O		O
31	N	N	Y	P				P	O		O
32	N	N	G	P				P	O		O
33	G	G	G	P				P	O		O
34	G		G	P				P	O	O	O
35	G		G	P	P	P	P	a	H	H	H
36	G		G	Z	V	V	V	a	H		H
37	G	G	G	Z	B	B	V	a	H		H
38	A	A	G	Z	B		B	a	H		H
39	A		A	Z	B	B	B	a	H	H	H
40	A		A	Z	b	b	b	b	S	S	S
41	A		A	b				b	S		S
42	A		A	b				b	S		S
43	A		A	b				b	S		S
44	A		A	b				b	S		S
45	A		A	b				b	S		S
46	A	A	A	b				b	S		S
47	U	U	U	b	b	b	b	b	S	S	S
48	U			U	U	U	T	T	T	T	T
49	U					U	T				T
50	U	U	U	U	U	U	T	T	T	T	T

19 Iterations for CV.PANDANUS INTERNUSA per HARI

tal Cost =23068.90 (by Rectilinear Distance)

	Column										
Row	1	2	3	4	5	6	7	8	9	10	11
1	W	D	E	E	E	C	C	C	C	e	e
2	W	D	E	E	E	C				C	e
3	W	D	E	E	E	C				C	e
4	W	D		D	D	C				C	e
5	D			D	D	C				C	e
6	D	D		D	C	C	C	C	C	C	e
7	X	X	D	D	K	K	K	K	R	R	R
8	X	X	D	D	K			K	R	R	R
9	D	D		D	K			K	R	R	R
10	D	D	D	K				K	R	R	R
11	K	K	K						K	K	e
12	K									K	e
13	K			K	K	K	K	K			K
14	K		K	L	L	L	L	J	K		K
15	K	K	K	L		L	L	J	K	K	K
16	M	M	K	L	L	J	J	J	F	F	K
17	M	M	K	L	L	J	J	G	G	F	H
18	M	M	K	L	L	J	J	G	G	F	H
19	M	M	K	M	L	J	J	G	G	H	Q
20	M	M	K	M	J		J	G	G	H	Q
21	M		M	M	J	J	J	G	G	H	Q
22	M	M	I	I	I	I	I	G	F	H	Q
23	N	N	Y	I			I	G	F	H	Q
24	N	N	Y	I	I	I	I	G	F	H	Q
25	N	N	Y	Y	J	G	G	G	F	H	Q
26	N	N	Y	Y	J	J	J	G	F	H	Q
27	N	N	Y	O	J			J	F	H	Q
28	N	N	Y	O	J			J	F	H	Q
29	N	N	Y	O	J			J	F	H	Q
30	N	N	Y	O	J			J	F	H	Q
31	N	N	Y	O	O	J	J	J	F	H	P
32	N	N	O			O	O	P	P	P	P
33	O	O				O	P				P
34	O	O	O	O	O	O	O	P			P
35	P	P	P	P	P	P	P	a	P		P
36	P		P	Z	V	V	V	a	P		P
37	P	P	P	Z	B	B	B	V	a	P	P
38	A	A	P	Z	B		B	a	P		P
39	A		A	Z	B	B	B	a	P	P	P
40	A		A	Z	b	b	b	b	S	S	S
41	A		A	b				b	S		S
42	A		A	b				b	S		S
43	A		A	b				b	S		S
44	A		A	b				b	S		S
45	A		A	b				b	S		S
46	A	A	A	b				b	S		S
47	U	U	U	b	b	b	b	b	S	S	S
48	U			U	U	U	T	T	T	T	T
49	U					U	T				T
50	U	U	U	U	U	U	T	T	T	T	T

19 Iterations for CV.PANDANUS INTERNUSA per HARI

al Cost =23068.90 (by Rectilinear Distance)

	Column										
Row	1	2	3	4	5	6	7	8	9	10	11
1	X	D	E	E	E	C	C	C	C	e	e
2	X	D	D	E	E	C				C	e
3	X	D	D	E	E	C				C	e
4	X	D		D	D	C				C	e
5	D			D	C					C	e
6	D	D		D	C	C	C	C	C	C	e
7	W	W	D	D	K	K	K	K	R	R	R
8	W	W	D	D	K			K	R	R	R
9	D	D		D	K			K	R	R	R
10	D	D	D	K				K	R	R	R
11	K	K	K						K	K	e
12	K									K	e
13	K			K	K	K	K	K			K
14	K		K	L	L	L	L	J	K	K	K
15	K	K	K	L		L	L	J	K	K	K
16	M	M	K	L	L	J	J	J	F	F	K
17	M	M	K	L	L	J	J	G	G	F	H
18	M	M	K	L	L	J	J	G	G	F	H
19	M	M	K	M	L	J	J	G	G	H	Q
20	M	M	K	M	J		J	G	G	H	Q
21	M		M	M	J	J	J	G	G	H	Q
22	M	M	I	I	I	I	I	G	F	H	Q
23	N	N	Y	I			I	G	F	H	Q
24	N	N	Y	I	I	I	I	G	F	H	Q
25	N	N	Y	Y	J	G	G	G	F	H	Q
26	N	N	Y	Y	J	J	J	G	F	H	Q
27	N	N	Y	O	J			J	F	H	Q
28	N	N	Y	O	J			J	F	H	Q
29	N	N	Y	O	J			J	F	H	Q
30	N	N	Y	O	J			J	F	H	Q
31	N	N	Y	O	O	J	J	J	F	H	P
32	N	N	O			O	O	P	P	P	P
33	O	O					O	P			P
34	O	O	O	O	O	O	O	P			P
35	P	P	P	P	P	P	P	a	P		P
36	P		P	Z	V	V	V	a	P		P
37	P	P	P	Z	B	B	V	a	P		P
38	A	A	P	Z	B		B	a	P		P
39	A		A	Z	B	B	B	a	P	P	P
40	A		A	Z	b	b	b	b	S	S	S
41	A		A	b				b	S		S
42	A		A	b				b	S		S
43	A		A	b				b	S		S
44	A		A	b				b	S		S
45	A		A	b				b	S		S
46	A	A	A	b				b	S		S
47	U	U	U	b	b	b	b	b	S	S	S
48	U			U	U	U	T	T	T	T	T
49	U					U	T				T
50	U	U	U	U	U	U	T	T	T	T	T

LAMPIRAN 6
HASIL PENYESUAIAN CRAFT

Iteration 0 for CV.PANDANUS INTERNUSA per HARI

Total Cost = 27735.18 (by Rectilinear Distance)

	Column											
Row	1	2	3	4	5	6	7	8	9	10	11	
1	X	D	D	D	E	E	E	E	C	C	C	C
2	X	D		D	E	E	C					C
3	X	D		D	E	E	C					C
4	X	D		D	D	C						C
5	D				D	C						C
6	D	D		D	D	C	C	C	C	C		C
7	W	W	D	D	K	K	K	K	R	R	R	R
8	W	W	D	D	K				K	R		R
9	K	K	K	K					K	R		R
10	K								K	R	R	R
11	K									K	K	K
12	K		K	K	K							K
13	K	K	L	L	L	K	K	K	K	K		c
14	M	N	L		L							c
15	M	N	L		L							c
16	M	N	L		L	K	G	G	K	K		c
17	M	N	L	L	L	J	G		G	H		c
18	M	N	J	J	J	J	G		G	H	H	
19	M	N	J			J	G		G	H	H	
20	M	N	J			J	G		G	H	H	
21	M	N	J			J	G	G	G	H	H	
22	M	N	J				J	F	F	H	H	
23	N	N	Y	J			J	F	F	H	H	
24	N	N	Y	J			J	F	F	H	H	
25	N	N	Y	Y	J		J	F	F	Q	Q	
26	N	N	Y	Y	J		J	F	F	Q	Q	
27	N	N	Y	J	J	J	J	F	F	Q	Q	
28	N	N	Y	I	I	I	I	F	F	Q	Q	
29	N	N	Y	I		I	P	P	P	Q	Q	
30	N	N	Y	I		I	P		P	Q	Q	
31	N	N	Y	I	I	I	P		P	c	c	
32	N	N	O	O	O	P			P	c	c	
33	O	O		O	P					P	P	
34	O			O	P		P				P	
35	O		O	O	P	P	a	P		P	P	
36	O	O	Z	V	V	V	a	P		P	P	
37	O	O	O	Z	B	B	V	a	P		P	
38	A	A	O	Z	B		B	a	P		P	
39	A	A	Z	B	B	B	a	P	P	P	P	
40	A	A	Z	b	b	b	b	S	S	S	S	
41	A	A	b					b	S		S	
42	A	A	b					b	S		S	
43	A	A	b					b	S		S	
44	A	A	b					b	S		S	
45	A	A	b					b	S		S	
46	A	A	A	b				b	S		S	
47	U	U	U	b	b	b	b	b	S	S	S	S
48	U			U	U	U	T	T	T	T	T	T
49	U						U	T				T
50	U	U	U	U	U	U	T	T	T	T	T	T

LAMPIRAN 7
SURAT KETERANGAN

SURAT KETERANGAN

Yogyakarta, 9 juni 2008


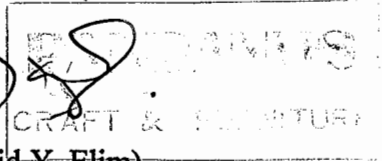
Saya selaku Direktur perusahaan CV. Pandanus Internusa menyatakan mahasiswa berikut ini :

Nama : Putu Murti Krisna Dewi Dasi
No.Mhs : 04071
Jurusan : Teknik Industri
Universitas : Atma Jaya Yogyakarta

Bahwa benar telah melakukan penelitian untuk keperluan skripsi dengan judul "Usulan Perancangan Tata Letak Perusahaan". Penelitian yang dilakukan dimulai pada bulan Agustus 2007 sampai November 2007. Demikian surat ini dibuat agar berguna sebagaimana mestinya.

Sekian dan terimakasih.

Direktur Perusahaan



(David Y. Elim)

