

## BAB VI

### KESIMPULAN DAN SARAN

#### 6.1 Kesimpulan

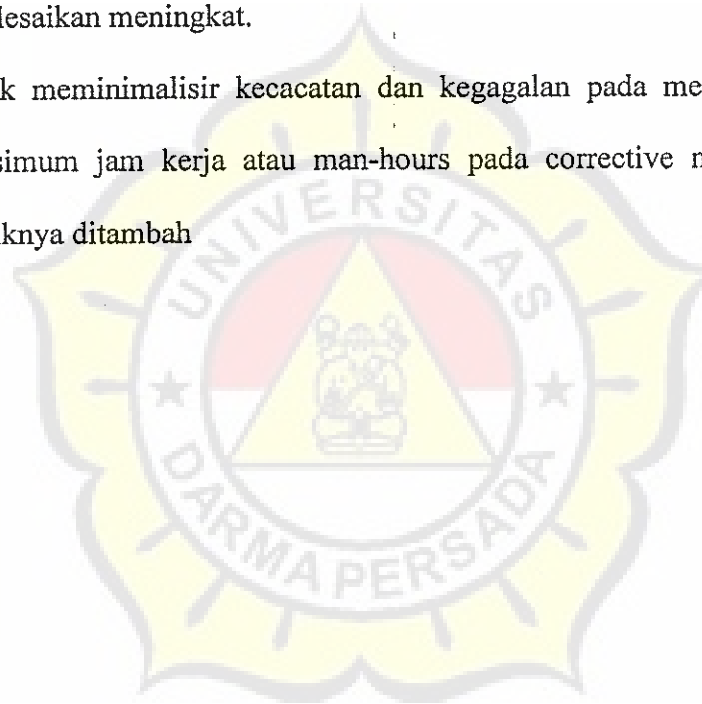
Berdasarkan data input faktor yang diperoleh pada saat pengumpulan data dan model-model yang telah dibuat yang kemudian dijalankan dengan software powersim, maka dapat ditarik kesimpulan sebagai berikut:

1. Model sistem perawatan mesin Over Head Crane di PT Arkon Prima Indonesia digambarkan dengan menggunakan Software Powersim dan faktor input yang mempengaruhi diantaranya:
  - Faktor beban
  - Preventive maintenance yang diantisipasi per minggu
  - Pelaksanaan (Operational) Cycle time
  - Kemunduran Sistem
  - Rata-rata kemungkinan kecacatan per sub-sistem
  - Maksimal tersedianya Man-hours (jam kerja) untuk corrective maintenance
2. Kebijakan perawatan yang diambil adalah preventive maintenance, karena dilihat dari grafik 5.1 jumlah preventive maintenance yang terselesaikan semakin meningkat yang dipengaruhi oleh tingginya laju penyelesaian preventive maintenance serta rendahnya keterlambatan penyelesaian preventive maintenance dan kemungkinana maksimum preventive maintenance per minggu.

## 6.2 Saran

Dengan tujuan meningkatkan produktivitas serta memperbaiki pelaksanaan preventive dan corrective maintenance yang ada, penulis memberikan beberapa saran sebagai berikut:

1. Preventive maintenance lebih diutamakan agar kesiapan mesin tinggi sehingga kemungkinan rusak sedikit dan kemungkinan perawatan yang terselesaikan meningkat.
2. Untuk meminimalisir kecacatan dan kegagalan pada mesin, jumlah maksimum jam kerja atau man-hours pada corrective maintenance sebaiknya ditambah



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NAMA MESIN : OVER HEAD CRANE MERK / TIPE : DEMAG KAPASITAS : 10 TON TAHUN : 1982		RIWAYAT MESIN		PR. NO : 102 LOKASI : WS. A
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NO	TANGGAL	BAGIAN	KERUSAHAN	SEBAB	PERBAIKAN	WAKTU PERBAIKAN	KETERANGAN
1	20-Jun-00	Motor hoist	Crane mati total	Kabel perintah putus	Kabel disambung kembali	-	ok
2	22-Jan-01	-	Crane macet	Contacto tdk berfungsi	Contacto diperbaiki dan dipasang	-	ok
3	08-Mar-01	Motor hoist	Crane mati total	Motor hoist terbakar	Ganti motor baru	-	ok
4	11-Mar-01	Motor saddle	-	Line motor saddle rusak	Diperbaiki kembali	-	ok
5	17-Mar-01	Motor	Crane mati total	Bearing macet	Ganti baru roda 1 set & bearing	-	ok
6	27-Jun-01	Roda	-	Akibat tekanan roda	Ganti bearing baru	-	ok
7	28-Jul-01	Motor	Crane mati total	Motor terbakar	Ganti motor baru	-	ok
8	11-Oct-01	Sling	Sling tdk bisa naik-turun	-	Sling diperbaiki	-	ok
9	30-Oct-01	-	Crane macet	Contacto tdk berfungsi	Contacto diganti ex. Atlas	-	ok
10	02-Nov-01	Roda	-	Roda gigi penggerak motor lepas	Ganti gigi roda yg lama	-	ok
11	19-Jan-02	Roda	-	Bearing macet	Ganti bearing baru	-	ok
12	06-Mar-02	Roda	-	Gigi saddle pecah	Ganti gigi saddle baru	-	ok
13	19-Aug-02	Roda	As roda rontok	-	Ganti as roda baru	-	ok
14	25-Oct-02	Guide	Guide rusak	-	Ganti rope guide baru	-	ok
15	04-Jan-03	Kabel line	Kabel line putus	-	Kabel disambung kembali	-	ok
16	06-Feb-03	-	Crane mati total	Carbon brush habis	Ganti carbon brush baru	-	ok
17	21-Mar-03	Collector	-	Collector lepas dari power rail	Collector dipasang lagi	-	ok
18	14-May-03	Roda	Bearing roda pecah	-	Ganti bearing baru	-	ok
19	18-May-03	Motor	Motor hoist terbakar	-	Motor digulung	-	ok
20	20 Jun 03	Motor saddle	Crane mati total	Motor saddle terbakar	Motor dirolling	-	ok

Crane dpt dioperasikan tgl 5 Juni 2003

Crane dan dismanasikan ke E. I. I. 0000

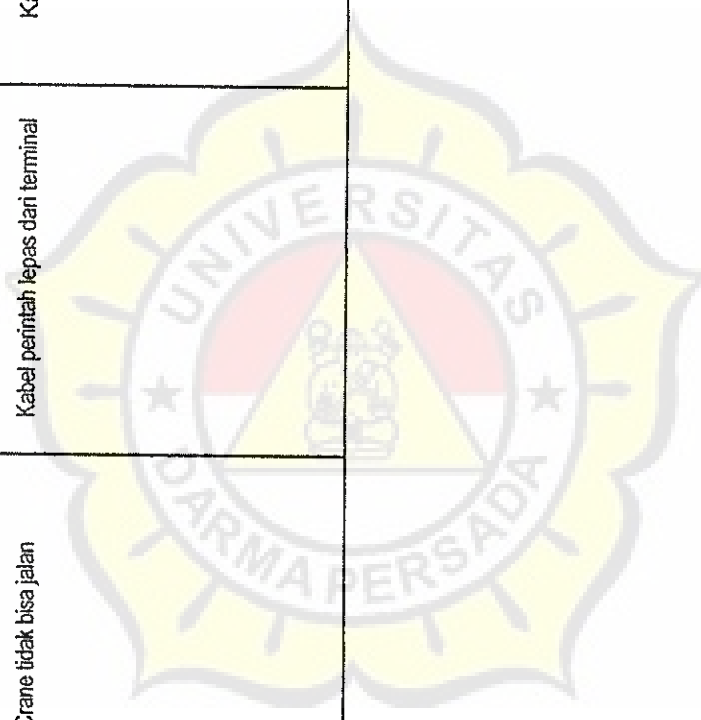
					PERBAIKAN	KELEKANGAN
21	Sling	Contacto lepas	-	Contacto dipasang lagi	-	ok
22	Kabel line	Kabel line putus	-	Kabel disambung kembali	-	ok
23	Kabel line	Kabel line putus	-	Kabel disambung kembali	-	ok
24	Motor hoist	Kabel line putus	-	Kabel disambung kembali	-	ok
25	Sling	Sling putus	-	Ganti sling baru	-	ok
26	Sling	Sling tdk bisa naik full	Platina/ring pembalut zelling lepas - dari rute guide	Diperbaiki kembali	-	ok
27						
28	Motor	Crane mati total	Platina contactor habis	Ganti platina bekas	-	ok
29	Motor	Crane tdk bisa kearah selatan	Circiip patah	Ganti circiip baru	-	ok
30	Collector	Collector patah	Carbon brush habis	Ganti collector, carbon brush	-	ok
31	Push button	Crane tdk bisa naik-turun	MCB trip	MCB dinaikkan kembali	-	ok
32	Sling	Sling tdk bisa naik full	-	Diperbaiki kembali	-	ok
33	Push button	Crane tidak bisa naik - turun	Kabel push button putus	Kabel disambung kembali	-	ok
34	Motor	Crane mati total	Carbon brush habis	Ganti carbon brush baru	-	ok
35	Motor	Crane mati total	Collector power rusak	Ganti platina baru	-	ok
36	Motor	Crane mati total	Collector power rusak	Ganti platina baru	-	ok
37	Motor	Carbon brush ming	Power rail tdk rata	Sambungan power rail dirapatkan	-	ok
38	Power rail	Crane mati total	Power rail unitik power tdk ada	Memasang terminal 3 bh	-	ok
39	Roda	Crane mati total	Roda anjok dan rel	Roda diangkat kembali	-	ok
40	Motor	-	Platina contacto habis	Ganti platina ex.	-	ok
41	Sling	Sling keluar dari full	-	Sling dipasang kembali	-	ok
42	Sling	Sling tdk bisa naik full	Dguide klem putus	Ganti klem ex crane 109	-	ok
43	Power rail	Power rail kendur	Sambungan power rail tdk bagus	Sambungan diperbaiki	-	ok
44	Sling	Sling kusut	-	Sling diperbaiki	-	ok
45	Sling	Sling kusut	Guide sama plastik lepas	Guide yg lps dipasang kembali	-	ok
46	Guide	Guide rusak	-	Guide diperbaiki kembali	-	ok
47	Master limit	Crane mati line naik - turun	Crane mati line naik - turun	Diperbaiki kembali	-	ok

					PERBAIKAN	
48	Power rail				Ganti power rail yg bekas	ok
49	Motor hoist	Kabel power lepas	Power rail lepas	Baut kurang kencang	Baut di kencangkan kembali	ok
50	Sling	Sling turun sendiri	Penahan kopel patah		Ganti baru	ok
51	Push button	Tombol untuk naik tdk berfungsi	Kabel kendur		Diperbaiki kembali	ok
52	Contactor	Contactor goyang	Baut contactor kendur		Baut dikencangkan	ok
53	Push button	Tombol w/ naik-turun tdk berfungsi	Kabel kendur		Diperbaiki kembali	ok
54	Motor hoist		Rangkaian contactor rusak		Diperbaiki kembali	ok
55	Push button	Crane tdk bisa maju-mundur	Kabel perintah putus		Kabel disambung kembali	ok
56	Contactor	Rangkaian contactor lepas			Rangkaian contactor dipasang lagi	ok
57	Contactor	Platina contactor habis			Ganti platina baru	ok
58	Roda		Pen untuk as patah		Ganti baut baja	ok
59	Roda	Roda sudah ipis			Roda ganti baru	ok
60	Motor hoist	Crane macet	Bearing arah selatan pecah		Ganti bearing baru 6213	ok
61	Carbon brush	Carbon brush habis			Ganti carbon brush baru	ok
62	Vahle	Vahle lepas	Sambungannya lepas		Disambung kembali	ok
63	-	Crane mati total	Panel consleting		Ganti sikring baru	ok
64	-	Panel meledak	Sambungan vahle kring rapat		Diperbaiki kembali	ok
65	Motor		Carbon brush tdk rata		Diperbaiki kembali	ok
66	Motor hoist	Crane mati total	Motor terbakar		Ganti stator	Nanang, Surabaya
67	Kabel power	Crane mati mendadak	Kabel contactor putus		Kabel disambung kembali	Mahmur, Haryanto
68	Push button	Crane tidak bisa turun	Limit tus macet		Dikasi pelumas	Suratno, Syarif
69	-	Crane mati mendadak	Carbon brush habis		Ganti carbon brush baru	Mahmur, Surabaya
70	-	Crane mati mendadak	Fuse panel putus		Ganti fuse 125 A	Mahmur, Agus

							PERBAIKAN	REVISI/STATUS
74	10-Aug-04	Power rail	Crane mati total	Sambungan power rail kendur	Sambungan diperbaiki	-	-	ok
75	14-Aug-04	-	Crane mati total	Brakernya turun	Diperbaiki kembali	-	-	ok
76	26-Aug-04	Push button	Crane tdk bisa jln kearah barat	Platina habis	Ganti platina baru	-	-	ok
77	28-Aug-04	Contacto	Crane mati total	Contacto macet	Diperbaiki kembali	-	-	ok
78	30-Sep-04	Carbon brush	Carbon brush habis	-	Ganti carbon brush baru	-	-	ok
79	11-Oct-04	Carbon brush	Carbon brush habis	-	Ganti carbon brush baru	-	-	ok
80	02-Nov-04	Carbon brush	Carbon brush habis	-	Ganti carbon brush baru	-	-	ok
81	06-Nov-04	Push button	Crane tdk bisa naik-turun	Rangkaian kabel power putus	Kabel disambung kembali	-	-	ok
82	09-Nov-04	Motor	Crane mati total	Kabel power putus	Kabel disambung kembali	-	-	ok
83	22-Nov-04	Push button	Crane tdk bisa naik	Platina habis	Ganti platina 3TF 46	-	-	ok
84	08-Dec-04	Sling	Guide lepas	-	Dipasang klem	-	-	ok
85	14-Dec-04	Contacto	-	Platina contactor habis	Ganti contactor bekas	-	-	ok
86	22-Dec-04	-	Crane mati total	Breaker turun	Breaker dinaikkan	-	-	ok
87	23-Dec-04	Sling	-	Contacto macet	Ganti contactor baru	-	-	ok
88	05-Jan-05	Sling	Rangkaian contactor lepas	Baut kurang kuat	Baut dikencangkan kembali	-	-	ok
89	12-May-05	-	Kabel untuk contactor lepas	Baut kurang kuat	Baut dikencangkan kembali	-	-	ok
90	14-May-05	Kabel power	Kabel power lepas	Baut contactor lepas	Bautnya dipasang kembali	-	-	ok
91	20-May-05	-	Fuse lepas	Baut fuse kendur	Dipasang kembali	-	-	ok
92	24-May-05	Push button	Crane tdk bisa naik - turun	-	Ganti rangkaian kabel	-	-	ok
93	26-May-05	Push button	Crane tdk bisa naik - turun	Rangkaian kabel push button lepas	Rangkaian dipasang kembali	-	-	ok
94	06-Jun-05	Sling	Crane tdk bisa naik - turun	Ada baut yg lepas	Pasang baut baru	-	-	ok
95	25-Aug-05	Motor cross	-	Baut contactor lepas	Pasang baut baru	-	-	ok
96	05-Sep-05	Power rail	Crane mati total	Power rail lepas 2 pcs	Dipasang kembali	-	-	ok
97	24-Sep-05	Push button	Crane tdk bisa naik - turun	Breaker turun	Breaker dinaikkan	-	-	ok
98	18-Jan-07	Roda	Crane tdk bisa dioperasikan	Kabel motor ada yg putus	Diperbaiki kembali	-	-	ok
99	05-Mar-07	-	Crane mati total	Panel conseling	Ganti sikring baru	-	-	ok
100	04-Jul-07	-	-	Panel konseling rusak	Diperbaiki kembali	44.00	44.00	-



				PERBAIKAN	KETERANGAN
101	15-Aug-07	Sling			ok
102	31-Aug-07	Motor cross	Crane tidak bisa jalan		ok
103	20-Sep-07	Motor saddle	Motor tidak bisa naik		Srt, Nng, Hryt
104	28-Sep-07	Push button	Push button tidak berfungsi	Pasang motor punya crane 103	Mahmur, Suratno
105	10-Oct-07	Push button	Tombol push button naik-turun tdk berfungsi	Ganti kabel baru	Mahmur, suratno
106	12-Nov-07	Contacto	Crane tdk bisa jln ke arah timur	Ganti remote telemecanique	Mhr, Hryt, Sfyri
107	16-Nov-07	Roda	Crane tidak bisa jalan	Ganti contactor 3TF 44	Suratno, Haryanto
				Kabel dipasang kembali	



<b>NAMA MESIN</b> : OVER HEAD CRANE <b>MERK / TIPE</b> : DEMAG <b>KAPASITAS</b> : 10 TON <b>TAHUN</b> : 1982		<b>RIWAYAT MESIN</b>		<b>PR. NO</b> : 101 <b>LOKASI</b> : WS. A
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NO	TANGGAL	BAGIAN	KERUSAKAN	SEBAB	PERBAIKAN	WAKTU PERBAIKAN	KETERANGAN
1	30-Mar-01	Mesin	Mati total	Gigi penggerak oblok	Diperbaiki kembali	-	ok
2	09-Aug-01	Motor	Rusak ringan	Collector habis ( aus )	Penggantian platina dan colector	-	ok
3	10-Nov-01	Kabel perintah	Crane tidak bisa jalan kearah timur	Kabel perintah putus	Diperbaiki kembali	-	ok
4	22-Nov-01	Kabel line	Jalan kearah barat & timur tdk normal	Kabel line putus	Diperbaiki kembali	-	ok
5	28-Nov-01	Sling	-	Contactor lengket	Ganti platina bekas	-	ok
6	09-Jan-02	Sling	-	Contactor lengket	Ganti platina ex 3 TF 44	-	ok
7	18-Mar-02	Spool contactor	Spool contactor lengket	-	Ganti contactor baru 3TF 44	-	ok
8	19-Mar-02	Contactor	-	Contactor terbakar	Ganti contactor baru 3TF 44	-	ok
9	16-May-02	Sling	Sling tidak bisa naik-turun	Copel nya rontok	Pemindahan guide 102 - 101	-	ok
10	23-May-02	Sling	Sling tidak bisa naik	Kabel perintah putus	Diperbaiki kembali	-	ok
11	31-May-02	Motor	Crane mati total	Koper lepas	Diperbaiki kembali	-	ok
12	20-Jun-02	Motor	-	Travo penghubung coil tidak aktif	Diperbaiki kembali	-	ok
13	01-Jul-02	Motor	-	Carbon brush habis	Ganti carbon brush baru	-	ok
14	05-Jul-02	Motor	Crane mati total	Carbon brush habis	Ganti ex. Crane 102	-	ok
15	23-Jul-02	Motor	Crane mati total	Motor hoist terbakar	Motor hoist 102 dipindah	-	ok
16	14-Aug-02	Kabel line	Kabel line lepas	-	Diperbaiki kembali	-	ok
17	16-Sep-02	Motor	Crane mati total	Motor saddle terbakar	Ganti gulungan baru	-	ok
18	23-Sep-02	Roda	Rotor macet	-	Diperbaiki kembali	-	ok
19	23-Sep-02	Roda	Rotor macet	-	Diperbaiki kembali	-	ok

NO	TARIKH	KETERANGAN	PERBAIKAN	KEMERANGAN
21	18-Oct-02	Kabel perintah	-	ok
22	27-Nov-02	Kabel perintah	Kabel disambung kembali	ok
23	28-Nov-02	Motor	Fuse breaker turun	ok
24	02-Dec-02	Power rail	Power rail hilang 1 phase	ok
25	13-Dec-02	Power rail	Power rail rusak	ok
26	16-Dec-02	Sling	-	ok
27	31-Dec-02	Sling	-	ok
28	04-Jan-03	Remote control	Rotornya rusak	ok
29	28-Jan-03	Motor	-	ok
30	07-Apr-03	Motor	-	ok
31	19-May-03	Push button	Rangkaian kabel lepas	ok
32	05-Jun-03	Motor	-	ok
33	16-Jun-03	Push button	Kabel perintah lepas	ok
34	10-Jun-03	Push button	Kabel perintah lepas	ok
35	26-Jun-03	Push button	Contactor lepas	ok
36	02-Jul-03	-	Rangkaian contactor lepas	ok
37	09-Jul-03	-	Platina aus	ok
38	10-Jul-03	-	Coontactor tdk berfungsi	ok
39	11-Jul-03	-	Coontactor tdk berfungsi	ok
40	30-Jul-03	Push button	Kabel perintah putus	ok
41	12-Aug-03	Push button	Rangkaian contactor lepas	ok
42	01-Sep-03	Sling	-	ok
43	11-Sep-03	Motor	Kabel power penggerak contactor-min contactor kendur	ok
44	25-Sep-03	Contactor	Platina contactor habis	ok
45	27-Sep-03	Sling	Stelan brake kurang pas	ok
46	27-Mar-03	-	-	-

					PERBAIKAN	INLENDINGAN
47	25-Dec-03	Push button	Crane tdk bisa naik-turun	Rangkaian kabel kendur	Kabel dikencangkan	ok
48	28-Dec-03	Roda	Roda anjlok	Roda sudah tipis	Roda diangkat	ok
49	29-Dec-03	Push button	Tomboi naik-turunya tdk berfungsi	Kabel push button kendur	Kabel dikencangkan	ok
50	06-Jan-04	Sling	Sling kusut	Sling dibuat narik miring	Diperbaiki kembali	ok
51	19-Jan-04	Power rail	As roda keluar	Power rail untk power hilang	Memasang terminal 3 bh	ok
52	21-Jan-04	Roda		Bearingnya hancur	Ganti bearing baru	ok
53	18-Feb-04	Sling	Sling kusut	Sling dibuat narik miring	Diperbaiki kembali	ok
54	03-Mar-04	Push button	Crane tdk bisa kearah utara-selatan	Brakernya macet	Ganti baut	ok
55	13-Apr-04	Rel	Power rail hilang 1 phase	Sambungan power rail kendur	Sambungannya dikuatkan lagi	ok
56	23-Apr-04	Push button	Crane tdk bisa ke arah timur	Kabel perintah putus	Kabel disambung kembali	ok
57	02-May-04	Push button	Crane tdk bisa ke arah barat	Kabel perintah putus	Kabel disambung kembali	ok
58	06-May-04	Power rail	Power rail kendur	Sambungan tdk pas	Sambungan diperbaiki	ok
59	20-May-04	Push button	Crane tdk bisa turun	Kabel push button putus	Kabel yg pts disambung kembali	ok
60	24-May-04	Kabel power	Kabel power kendur	Baut kurang kencang	Baut dikencangkan kembali	ok
61	26-May-04	Push button	Crane mati total	Kabel push button putus	Kabel disambung kembali	ok
62	28-May-04	Sling	Sling tdk bisa naik-turun	Kabel power kendur	Dikencangkan kembali	ok
63	01-Jun-04	Kabel power	Crane mati total	Kabel power putus	Kabel disambung kembali	ok
64	02-Jun-04	Push button	Sling tdk bisa naik-turun	Kabel lepas 1 phase	Kabel dipasang kembali	ok
65	06-Jun-04	Sling	Sling tdk bisa turun	Kabel lepas 1 phase	Kabel dipasang kembali	ok
66	09-Jun-04	Power rail	Crane mati total	Power rail lepas	Ganti power rail yang bekas	ok
67	09-Jun-04	Kabel power	Kabel power putus		Kabel disambung kembali	ok
68	14-Jun-04	Sling	Sling tdk bisa turun	Kabel power putus	Kabel disambung kembali	ok
69	14-Jun-04	-	Crane mati total	Fuse braker trip	Diperbaiki kembali	ok
70	15-Jun-04	Contacto	-	Dudukan contacto patah	Ganti dgn yg bekas	ok
71	24-Jun-04	Push button	Crane tdk bisa naik-turun	Fuse breaker trip	Diperbaiki kembali	ok
72	07-Jul-04	-	Cross travel mati	Platina habis	Ganti platina 3TF 44	ok



**SCHEDULE YEARLY MAINTENANCE**  
HANDLING EQUIPMENT FOR 2008

PR NO	APPLIED IN AREA WS	DESCRIPTION	BRAND / MARK	BULAN												KET					
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec						
101	A	OH. CRANE	DEMAG ( 10 T )	02-Jan-08			01-Apr-08			01-Jul-08						08-Oct-08					
102	A	OH. CRANE	DEMAG ( 10 T )		01-Feb-08				05-May-08								01-Aug-08			03-Nov-08	
103	A	OH. CRANE	DEMAG ( 5 T )			03-Mar-08					02-Jun-08								01-Sep-08		01-Dec-08
104	A	SG. CRANE	N. HOIST ( 3.2 T )	03-Jan-08			02-Apr-08			02-Jul-08											
105	A	SG. CRANE	N. HOIST ( 3.2 T )		04-Feb-08				06-May-08							04-Aug-08				04-Nov-08	
106	B	OH. CRANE	HITACHI ( 5 T )			04-Mar-08					03-Jun-08								02-Sep-08		02-Dec-08
107	B	OH. CRANE	DEMAG ( 10 T )	04-Jan-08				03-Apr-08		03-Jul-08											
108	B	OH. CRANE	HITACHI ( 15 T )		05-Feb-08				07-May-08							05-Aug-08				05-Nov-08	
109	B	OH. CRANE	DEMAG ( 10 T )																		
110	B	SG. CRANE	STHAL ( 3.2 T )			05-Mar-08					04-Jun-08										03-Dec-08
111	B	SG. CRANE	STHAL ( 3.2 T )	07-Jan-08			04-Apr-08			04-Jul-08											
112	B	SG. CRANE	STHAL ( 3.2 T )		06-Feb-08				08-May-08						06-Aug-08						
113	B	SG. CRANE	STHAL ( 3.2 T )			06-Mar-08				05-Jun-08									04-Sep-08		04-Dec-08
114	C	OH. CRANE	HITACHI ( 5 T )	08-Jan-08			07-Apr-08			07-Jul-08											
115	C	OH. CRANE	HITACHI ( 5 T )		11-Feb-08				09-May-08						07-Aug-08					07-Nov-08	
116	C	SG. CRANE	HITACHI ( 5 T )			10-Mar-08					06-Jun-08								05-Sep-08		05-Dec-08
117	C	SG. CRANE	HITACHI ( 5 T )	09-Jan-08			08-Apr-08			08-Jul-08											
118	C	SG. CRANE	STHAL ( 3.2 T )		12-Feb-08				12-May-08						08-Aug-08					10-Nov-08	
119	C	G. CRANE	STHAL ( 3.2 T )			11-Mar-08					09-Jun-08								08-Sep-08		09-Dec-08
120	D	G. CRANE	HITACHI ( 10 T )	14-Jan-08			09-Apr-08			09-Jul-08											
121	D	G. CRANE	HITACHI ( 10 T )		13-Feb-08				13-May-08						11-Aug-08					11-Nov-08	
122	A. PLATE	G. CRANE	HITACHI ( 5 T )			12-Mar-08					10-Jun-08								09-Sep-08		10-Dec-08
123	A. LODING	G. CRANE	HITACHI ( 10 T )	15-Jan-08			10-Apr-08			10-Jul-08											
124	D	G. CRANE	STHAL ( 16 T )		14-Feb-08				14-May-08						12-Aug-08					12-Nov-08	
125	MAINT.	FL. TOYOTA	TOYOTA ( 5 T )			13-Mar-08					11-Jun-08								10-Sep-08		11-Dec-08
126	MAINT.	FL.NISSAN	NISAN ( 5 T )	16-Jan-08			11-Apr-08			11-Jul-08											
127	MAINT.	MC. COLES	COLES ( 15 T )		15-Feb-08				15-May-08						13-Aug-08					13-Nov-08	

**SCHEDULE YEARLY MAINTENANCE  
CUTTING, FORMING & HOLING, SHOTBLASTING, PAINTING  
TOOLS SHARPENING, POWER SOURCE EQUIPMENT FOR 2008**

APPLIED IN AREA WS	DESCRIPTION	BRAND / MARK	CAPACITY	BULAN												KET							
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec								
A	COLD SAW	KALTENBACH	100 x 400 mm			14-Mar-08					12-Jun-08					11-Sep-08						12-Dec-08	
A	"	"	200 x 100 mm									14-Jul-08										21-Oct-08	
B	SHEAR CUT	LVD	16 x 2500 mm		18-Feb-08					16-May-08							14-Aug-08						14-Nov-08
B	CNC - TDK	PEDDING HAUS	1000 x 450 mm			17-Mar-08					13-Jun-08												15-Dec-08
B	CNC - ABCM	"	900 x 400 mm									15-Jul-08										22-Oct-08	
A	CNC - FDB	"	600 x 50 mm		19-Feb-08					21-May-08							15-Aug-08						17-Nov-08
B	PRESS BREAK	MODIFICATION				10-Mar-08					16-Jun-08												16-Dec-08
A	UI WORKER	KINGSLAND	66 TON	21-Jan-08					16-Apr-08			16-Jul-08										23-Oct-08	
A	"	"	66 TON		20-Feb-08					22-May-08							19-Aug-08						18-Nov-08
A	AUTO BLAST	GIETART	1530 x 415			19-Mar-08					17-Jun-07												17-Dec-08
A	AIRLESS SPRAY	DEVILBISS	30 : 1																				
A	"	DEVILBISS	"																				
A	"	SPEEFLO	"																				
A	"	SPEEFLO	"																				
A - B	U. LATHE	LUAN MACHINE	WS O 320, WL 1000	22-Jan-08					17-Apr-08			17-Jul-08											
A. BLASTING	AIR COMPRESSOR	INGERSOLL-RAND	8.0 BAR		21-Feb-08					23-May-08							20-Aug-08						19-Nov-08
"	AIR COMPRESSOR	ATLAS COPCO	7.0 BAR			24-Mar-08					18-Jun-08												18-Dec-08
B	AIR COMPRESSOR	HITACHI	7.5 BAR	23-Jan-08					18-Apr-08			18-Jul-08											
A. BLASTING	AIR COMPRESSOR	NISHIHATSU	1500 RPM		22-Feb-08					26-May-08							21-Aug-08						20-Nov-08
A. BLASTING	AIR COMPRESSOR	KABELCO	7.0 BAR			25-Mar-08					19-Jun-08												19-Dec-08
A. BLASTING	AIR COMPRESSOR	ECOAIR D - 100	8.0 BAR	24-Jan-08					21-Apr-08			21-Jul-08											
A. BLASTING	AIR COMPRESSOR	ECOAIR D - 75	8.0 BAR		25-Feb-08						20-Jun-08												
A. BLASTING	AIR COMPRESSOR	ECOAIR D - 75	8.0 BAR			26-Mar-08				27-May-08							22-Aug-08						21-Dec-08

Prepared by :

Approved by :

(.....)

(.....)



# INSTRUKSI KERJA Assembling Column

No dokumen	WI - WS - A - 011
Revisi	0
Tanggal	03 Okt 2002
Halaman	1 dari 1

I. Pelaksana : Foreman Assemble

## II. Uraian Instruksi Kerja :

1. Pelajar gambar kerja sampai paham betul kemauan gambar kerja tersebut ✓
2. Periksa hasil pemotongan dari preparation apakah sudah sesuai, panjang, lebar, tebal dan sudut kemiringan komponen utama tersebut dengan gambar kerja ✓
3. Base plate, gusset, cleat dan fitting lainnya yang sudah ditandai dengan kapur dipasang ke komponen utama kemudian ditack weld ✓
4. Diperiksa oleh foreman bersama QC setelah dinyatakan "OK" dikuatkan dulu tack weldnya ✓
5. Dibuat marking sesuai dengan gambar menggunakan hard stamp ✓
6. Column yang sudah selesai di assemble harus di record oleh foreman kedalam buku catatan laporan kerja ( BCLK ) ✓
7. Column yang sudah selesai di record dipindahkan ke area las untuk dilakukan pekerjaan selanjutnya oleh welder ✓

## III. Catatan perubahan : belum ada ✓

Disusun oleh :

H. Agus Samui  
Supv. Fabrikasi

Diperiksa oleh :

Tumpat H. Siahan  
Manajer Fabrikasi

Disetujui oleh :

Ir. H. Kemal Mahdi  
Manajer Plant & Produksi

LIST OF PROJECTS

CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
PERTAFINIKI	I.G.C.	EXNOR I	BALONGAN	STEEL STRUCTURE	100 MT
FREPORT INDONESIA	TECHNICAL	GOLD MINE	TEMIPURA	INTEGRITY & STEEL TANK	...
HUDSON PRODUCT	HUDSON PR.	AIR COOLED HEAT EXCHANGE	BONTANG	EQUIPMENT SUPPORT	...
SUMITOMO CORP. K'ELLOG SRIWIJAYA	BRADEN I.G.C.	MUARA KARANG I.C.C.P.	JAKARTA	COMBINED CYCLE	150 MT
FREPORT INDONESIA	FLOUR DNL	GOLD MINE	BONTANG	STEEL STRUCTURE	560 MT
PANGLAN SARTI UTARJA	ARKON	WAREHOUSE	YAKARTA	CONVEYOR & CHUTE	100 MT
FREPORT INDONESIA	I.G.C.	EXNOR I	BALONGAN	EQUIPMENT SUPPORT	100 MT
FREPORT INDONESIA K.T.I	FLOUR DNL	GOLD MINE	TEMIPURA	MILL POWER PLANT	600 MT
WALFIAS INDONESIA	TRIMBER	EXNOR I	EN WORKS	REFORMER	560 MT
GENIUM TEKNIK PRATAMA	I.C.C.	TRAIN I	BONTANG	COMPRESSOR BUILDING	150 MT
FREPORT INDONESIA	FLOUR DNL	GOLD MINE	JAKARTA	STEEL STRUCTURE	...
GENERAL ELECTRIC	G.E.	TAMBAK LOROK I.C.C.P.	SEMARANG	GENERATOR BLDG	620 MT
ASIA BROWN HOVERLY	A.B.H.	TAMBAK LOROK I.C.C.P.	SEMARANG	GAS EXHAUST SYSTEM	1,370 MT
TOSPLANT	A.B.H.	TAMBAK LOROK I.C.C.P.	JAKARTA	GAS EXHAUST SYSTEM	...
GENIUM TEKNIK PRATAMA	TOSHIBA	RADIO COMMUNICATION	BESAPAN	STEEL TOWER	100 MT
FREPORT INDONESIA	FLOUR DNL	GOLD MINE	JAKARTA	STEEL STRUCTURE	...
GENERAL ELECTRIC	FLOUR DNL	GOLD MINE	TEMIPURA	GENERATOR BLDG	620 MT
ASIA BROWN HOVERLY	G.E.	TAMBAK LOROK I.C.C.P.	SEMARANG	GAS EXHAUST SYSTEM	1,370 MT
TOSPLANT	A.B.H.	TAMBAK LOROK I.C.C.P.	JAKARTA	GAS EXHAUST SYSTEM	...
PERTAFINIKI	TOSHIBA	RADIO COMMUNICATION	BESAPAN	STEEL TOWER	100 MT
K.T.I	I.G.C.	EXNOR I	BALONGAN	STEEL STRUCTURE	110 MT
TOSHIBA	K.T.I	CFRAGONI BANGLADESH	EN WORKS	FIRE HEATER	100 MT
C.M.I	G.E.	TAMBAK LOROK I.C.C.P.	SEMARANG	GANTRY CRANE	1,330 MT
UNICAL GEOTHERMAL	BRADEN	TAMBAK LOROK I.C.C.P.	JAKARTA	HRSG DUCT & CASINO & STACK	50 MT
INTEGRITY ANTIFER	SINGGARAL	GN. SALAK GEOTHERMAL	WEST JAVA	PIPE SUPPORT & PIPE BRIDGE	...
HUDSON PRODUCT	TITACHI	TAMBAK LOROK I.C.C.P.	JAKARTA	GANTRY & SUPPORT STRUCTURE	...
HUDSON PRODUCT	HUDSON P.	VICO PROJECT	EAST KAL	...	...
BLACK & VEATCH	HUDSON P.	JASANTARA CHEMICAL	...	...	...
WESTINGHOUSE EL. CORP.	BRADEN	MUARA KARANG I.C.C.P.	JAKARTA	GAS EXHAUST SYSTEM	650 MT
BAHCOCK & WILCOCK CND	G.E.	BAH I.C.C.P.	BALI	GAS EXHAUST SYSTEM	...
GENERAL ELECTRIC	BAHCOCK	SURALAYA UNIT 5, 6, 7	WEST JAVA	COAL SILOS	650 MT
LOMBE CORPORATION	BRADEN	TAMBAK LOROK II BLOCK 1	SEMARANG	GAS EXHAUST SYSTEM	800 MT
PRIMA LIRANG MINSING	SUP. VALUE	BAKANGS COM. AREA	PHILIPINE	SUBSTITUTION	150 MT
HUDSON PRODUCT	P.L.N.I.	GOLD MINE	W. ISLAND	STEEL CONVEYOR	150 MT
FREPORT INDONESIA	HUDSON P.	VICO PROJECT	EAST KAL	...	...
PT. IAI INDONESIA	FLOUR DNL	GOLD MINE	TEMIPURA	STEEL STRUCTURE	...
JUDGE COTTRELL	SEDMAN & A	PETANGS PROJECT	EAST KAL	PLATE WORKS	...
JUDGE COTTRELL	L.C.D.	SURALAYA UNIT 5, 6, 7	WEST JAVA	PRECIPITATOR	4,235 MT
SIANI KERTAS	L.C.D.	SURALAYA UNIT 5, 6, 7	WEST JAVA	COLLECTOR SHEETS	4,235 MT
SIANI TOMASA	ARKON	WAREHOUSE	SAMARINDA	STEEL STRUCTURE	80 MT
BAHCOCK & WILCOCK	REKAYASA	MILL, ROTARY, KIRN	D. PANDANG	STEEL STRUCTURE	3,000 MT
GENERAL ELECTRIC	BAHCOCK	SURALAYA UNIT 5, 6, 7	WEST JAVA	FLUES AND DUCT	1,125 MT
SIANI KERTAS	G.E.	CIKARANG LISTROSD	BEKASI	GAS EXHAUST SYSTEM	500 MT
PANGLAN SARTI UTARJA	ARKON	WAREHOUSE	EAST KAL	STEEL STRUCTURE	...
SIANI KERTAS	ARKON	SCURINING PROCESSING	KRAWANG	STEEL STRUCTURE	...
ENKA PARAHYANGAN	SIMON	PULP MACHINE BLDG	EAST KAL	STEEL STRUCTURE	700 MT
GENERAL ELECTRIC	ARKON	FACTORY BUILDING	WEST JAVA	STEEL STRUCTURE	...
SIANI KERTAS	BRADEN	TAMBAK LOROK II BLOCK 2	SEMARANG	INLET WORKS	...
SIANI KERTAS	CHEM'S INT.	CHEMICAL ISLAND	EAST KAL	STEEL STRUCTURE	700 MT

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# LIST OF PROJECTS

YEAR	CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
1995	KIANI KERTAS	DAMPER	CHEM SCREENING	PASEKAM	STEEL STRUCTURE	300 MT
1995	BLACK & VEATCH	BRADEN	LAMBAK LOROK II BLOCK 1,2	SEMARANG	DAMPERS & LINER	100 MT
1995	KIANI KERTAS	ARKON	PILE WAREHOUSE	EAST KAL	STEEL STRUCTURE	900 MT
1995	ARLAWA	JECO	RACKER	WEST JAWA	STRUCTURAL	
1995	BLACK & VEATCH	HUADEN	LAMBAK LOROK II BLOCK 1,2	SEMARANG	SILENCER	
1995	BLACK & VEATCH	BLACK	SURABAYA UNIT 5 & 7	WEST JAWA	TEST INSTRUMENT	
1995	LAKSANA INDAH	ARKON	FACTORY BUILDING	SAMARINDA	GAS PLANT	
1995	BLACK & VEATCH	BLACK	LANDS & WARD	SURABAYA	SUBSTATION	
1996	ARLAWA INDO. & AMEKANOH	ADBE	INDONESIA W.M. FOREX BUILDING	WEST JAWA	PLATFORM	
1996	ARLAWA	PIEN	LAMBAK LOROK	SEMARANG	DAMPERS	900 MT
1996	ZERNING & SIBRE	BUCHER	BUCHER		DAMPERS & STACK	100 MT
1996	BRADEN MANUFACTURING	BRADEN	PINDROBLE	WEST JAWA		100 MT
1996	HOSPITAL KESIH	PIEN	LAMBAK LOROK	SEMARANG		250 MT
1996	ARLAWA ARDORAYA	ARKON	FACTORY	WEST JAWA	STEEL STRUCTURE & VESSEL	
1996	TRIDASA	TRIDASA	CROSS	CIPANGANG	BOX GIRDER	250 MT
1997	REKAYASA	REKIND	KESIK BONG LANG	EAST KAL	STRUCTURAL STEEL	150 MT
1997	THESS CONTRACTORS	THESS	GOLD MINE	SUMBAWA	VARIOUS	775 MT
1997	ARLAWA INDO	CHIN JIA	SUBSTATION	JAKARTA	VARIOUS	180 MT
1997	PAWGAN SARITAMA	ARKON	WAREHOUSE	PAPUANG		150 MT
1997	BLACK & VEATCH IND.	BWI	BOX ANGLE STRAIN II	BONTANG	STRUCTURAL STEEL	150 MT
1997	THESS CONTRACTORS	DAVY	INDO EXPANSION II PROJECT	SOROKO	BOILER SUPPORT	700 MT
1997	THESS CONTRACTORS	DAVY	KELANIS COL. TERAHMAL	SOROKO	MAIN STRUCTURE	4,000 MT
1997	REKAYASA INDESTERI	REKIND	BOPKA, PIPER KAL TIM	EAST KAL	FENDER FILE	100 MT
1997	AMBOUR KEYS ONE	ZURNIND	GRESIK POWER PLANT	EAST JAWA	S.S. PIPERACK	650 MT
1997	BLACK & VEATCH CANADA	SUBTOTAL	LANSUNG TUBA	GENT. JAWA	STACK, DUCT	170 MT
1997	GENERAL ELECTRIC	GE	PIPE PROJECT	EAST JAWA	HORSTAYS	1,100 MT
1997	THESS CONTRACTORS	DAVY	BALIHUW, SUMBAWA	SUMBAWA	ACOUSTICAL HANGAR	200 MT
1997	BRADEN MANUFACTURING	BRADEN	ASRIH ACOUST	SUMBAWA	BRIDGE STRUCTURES	150 MT
1997	BLACK & VEATCH CANADA	SUBTOTAL	LANSUNG TUBA	PALEMBANG	INLET FILTER HOUSE & EXHAUST	200 MT
1997	BLACK & VEATCH CANADA	SUBTOTAL	LANSUNG TUBA	GENT. JAWA	WINDONES	200 MT
1997	BLACK & VEATCH CANADA	SUBTOTAL	LANSUNG TUBA	GENT. JAWA	ELECTRIC PROTECTIVE EQUIP.	1,600 MT
1997	PAWGAN SARITAMA	PNWI	EXPANSION BLDG	JAKARTA	DUCTWORKS	1,200 MT
1997	ARLAWA INDONESIA		GRESIK PROJECT	EAST JAWA	STEEL STRUCTURE	150 MT
1997	THESS CONTRACTORS	DAVY	INDO EXPANSION II PROJECT	EAST JAWA	SUBSTATION	200 MT
1997	THESS CONTRACTORS	DAVY	INDO EXPANSION II PROJECT	SOROKO	STEEL STRUCTURE	70 MT
1997	ARLAWA INDONESIA	NKK	EGYPT PROJECT	EGYPT	STEEL CONVEYOR	600 MT
1997	THESS CONTRACTORS	DAVY	BALIHUW, SUMBAWA	SUMBAWA	STEEL BRIDGE	50 MT
1997	HIGGON KANE	INDO	REKIND	SUMATERA	INTAKE SYSTEM	65 MT
1997	THESS CONTRACTORS	INDO	KELANIS COL. TERAHMAL	EAST KAL	DUMP HOPPER, CRUSHING STEEL	120 MT
1997	REKIND	REKIND	REKIND	EAST KAL	DRAIN WATER TANK	76 MT
1997	MICASHINDO		EXPORT	WEST JAWA	STEEL DECK	220 MT
1997	GENERAL ELECTRIC		EXPORT	EXPORT	FAN RING SUPPORT	
1997	MULTEK ARAYA		EXPORT	BONTANG	WEAR PLATE	
1997	MICASHINDO		EXPORT	WEST JAWA	STEEL STRUCTURE	550 MT
1997	DELLASAKI PERIWI	ARKON	OFFICE BUILDING	JAKARTA	STEEL STRUCTURE	
1997	MICASHINDO		OFFICE BUILDING	JAKARTA	STEEL STRUCTURE	
1997	THESS CONTRACTORS IND	EL DANIEL	LANSUNG TUBA	WEST JAWA	STEEL STRUCTURE	1,000 MT
1997	THESS CONTRACTORS IND	EL DANIEL	LANSUNG TUBA	SUMBAWA	CONCENTRATOR LIME	
1997	ARLAWA INDONESIA	INDO LAYAL	BRIDGE STONELINE	SUMBAWA	CHUTE	
1997	ARLAWA INDONESIA	INDO LAYAL	BRIDGE STONELINE	JAKARTA	VESSEL FEED & HOT WATER TANK	

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LIST OF PROJECTS

YEAR	CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
2001	THESS CONTRACTOR IND	CONSTRUC	BERAL COAL MINING	EAST JAVA	CONCENTRATOR CONVEYOR	350 MT
2001	MI SASHI INDONESIA		FACTORY	WEST JAVA		
2001	ARFOKAY	ARTIKULAYA	FACTORY	SUMATERA	GUTTER SUPPORT	
2001	THESS CONTRACTOR IND	CONSTRUC	SALAH DARAJAH UPGRADE	EAST JAVA	COAL HANDLING FACILITY	250 MT
2001	DVAHILL	DANAHILL	SALAH DARAJAH	EAST JAVA	TOWER	65 MT
2001	THESS CONTRACTOR IND	CONSTRUC	BELLY BELT BRIDGE	EAST JAVA	BRIDGE	
2001	GRUENGLUECKER ALAMIA	GRUENGLUECKER	EXPORT	INDONESIA	EXHAUST SUPPORT PLATE	3,500 MT
2001	MI SASHI INDONESIA		FACTORY	WEST JAVA	VARIOUS	350 MT
2001	R & M	R & M	SCANDI BANK	AUSTRALIA	AIR FILTER HOUSE	1 US
2001	THESS CONTRACTOR IND	CONSTRUC	EXPORT	PEKANDARI	TANK	
2001	RAUTEC SYSTEMS PVT. LTD	RAUTEC	EXPORT	INDIA	AIR FILTER HOUSE	
2001	DELTA SAKTI PERHATI	DELTA	EXPORT BUILDING	JAKARTA	STEEL STRUCTURE	
2001	DONALDSON	DONALDSON	WESTINGHOUSE PROJECT	INDONESIA	AIR FILTER, INLET & EXHAUST	2 US
2001	THESS CONTRACTOR IND	CONSTRUC	NEWABONG	SUMBAWA	PILE DRIVERS	
2001	R & M	R & M	AL HOD	BAHRAIN	AIR INTAKE SYSTEM	3 US
2002	BUSHEI KANG PAKSIGAMA	BUSHEI KANG	EXPORT	CHINA	GANTRY CRANE	
2002	MI SASHI INDONESIA		FACTORY	EAST JAVA	STEEL STRUCTURE	250 MT
2002	THESS CONTRACTOR IND	CONSTRUC	SALAH DARAJAH	SUMBAWA	SURGE BIN PLATWORK & S.S.	300 MT
2003	SAVAI THESS LTD	SAVAI	GAS TRANS AND EXPORT	JAMBI	ACCESS PLATFORM	
2003	THESS CONTRACTOR IND	CONSTRUC	SALAH DARAJAH	SUMBAWA	PILE DRIVERS CROSSHIEB & SCREENING	
2003	THESS RANSE PTE. LTD.	THESS RANSE	PILE	JAKARTA	RUBBER TYRED GANTRY CRANE	6 US
2003	DONALDSON INC	DONALDSON	MEYIA YACON	GERMANY	AIR FILTRATION, DUCTING & SILC.	2 US
2003	BRADEN EUROPE BV	BRADEN	MUARAJAWAR	WEST JAVA	DIFFUSER SYSTEM	200 US
2003	BRADEN MANUFACTURING	BRADEN	MUARAJAWAR	WEST JAVA	BY PASS STACK	1,500 US
2003	DONALDSON INC	ROLL ROYCE	BEJALAS	SUMATERA	AIR FILTRATION, DUCTING & SILC.	2 US
2003	DONALDSON INC	ROLL ROYCE	BEJALAM	BEJALAM	AIR FILTRATION, DUCTING & SILC.	2 US
2003	DONALDSON INC	ROLL ROYCE	HADAK	KUANTAN	AIR FILTRATION, DUCTING & SILC.	1 US
2003	DONALDSON INC	ROLL ROYCE	MUTARA	SUMATERA	AIR FILTRATION, DUCTING & SILC.	2 US
2003	DONALDSON INC	ROLL ROYCE	BEJALAM	SUMATERA	AIR FILTRATION, DUCTING & SILC.	2 US
2003	BRADEN MANUFACTURING	MITSUBISHI	BEJALONG POWER PLANT	WEST JAVA	BY PASS STACK	2 US
2003	DONALDSON INC	ROLL ROYCE	BOSS BEANG	NIGERIA	AIR FILTRATION, DUCTING & SILC.	3 US
2003	PNL ALUMI CORP. GAS TURB	MITSUBISHI	BEJALONG POWER PLANT	WEST JAVA	FILTER HOUSE	2 US
2003	R & M GAS TURBINES	R & M	YOKOSUKA	JAPAN	AIR INTAKE SYSTEM	1 US
2003	MI SASHI INDONESIA		KOMASINDO	JAKARTA	STEEL STRUCTURE	400 US
2003	MI SASHI INDONESIA		DAMASINDO	JAKARTA	STEEL STRUCTURE	400 US
2003	KAHIMA INDONESIA	KAHIMA	YANAMAHINDO	OKARANG	STEEL STRUCTURE	
2003	R & M GAS TURBINES	R & M	AL WAFER	QATAR	AIR INTAKE SYSTEM	3 US
2003	R & M GAS TURBINES	R & M	BERROGHIA	FRANCE	AIR INTAKE SYSTEM	2 US
2003	THOMPSON ENACT	THOMPSON	SOUTH AFRICA GENERATION 2	DURIE	WORKING PLATE, BELT HOIST	1 US
2003	GFDI	GFDI	CHINA	JAKARTA	STEEL STRUCTURE	
2003	CALLOS TECHNOLOGI	CALLOS	SUDAN	CAMB	THERMAL OXIDIZER	
2003	ROBERT SCATTER	ROBERT	SOGAY CRUK COAL HANDLING	AUSTRALIA	STEEL STRUCTURE	1,500 US
2003	KIP	KIP	TANGGULING	PAPUA	STEEL STRUCTURE	2,000 US
2003	INTERMEDI	INTERMEDI	GULIADUO THREINADOOPER	SUMBAWA	POWER HOUSE	100 US

LIST-06EN1

A GLOBAL STEEL FABRICATOR, RELIABLE IN QUALITY AND DELIVERY,  
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## LIST OF PROJECTS

YEAR	CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
1976	LATIMAWATI HOSPITAL	RC ARCHITECT	GENERAL COVERED WAY	JAKARTA	SINGLE CLEAR SPAN PORTAL	1,155 M2
1976	DANAMOTOR VESPA	ARCON	FACTORY	JAKARTA	JACK ROOF STRUCTURE	
1976	ENCONA KIANMURNI	ARCON	OFFICE BUILDING	JAKARTA	TWO STOREY BUILDING	10,225 M2
1976	HEINEKEN	DJIA	FACTORY	TANGERANG	ROOF TRUSSES	680 MT
1976	CYPRUS BICO	BORUTERA	GODOWN	SEMARANG	SINGLE SOLID PORTAL	265 MT
1976	BUNAKI TAI	RAMP	HOTEL	BLK. PAPAN	STEEL STRUCTURE	
1976	MHE. DUWANA	ARCON	FACTORY	SURABAYA	SINGLE SOLID PORTAL	1,880 M2
1976	BRISTOL MYERS	ARCON	FACTORY	BOGOR	EXTENSION SINGLE CLEAR	600 MT
1976	BECHTEL - ARON	ARCON	COMPRESSOR BUILDING	ARON	SINGLE CLEAR SPAN PORTAL	2,520 M2
1976	BECHTEL	ARCON	BECHTEL BUILDING	MEDAN	SINGLE CLEAR SPAN PORTAL	22,520 M2
1976	NATIONAL MOTOR	ARCON	ASSEMBLY PLANT	JAKARTA	ARCON BRIDGE VENTILATOR	420 M2
1976	TRAKINDO DIANA	ARCON	GALLERY BUILDING	BLK. PAPAN	PROPPED PORTAL FRAME	820 M2
1976	FEIZER INDONESIA	ARCON	EXHIBITION	JAKARTA	SINGLE SPAN PROPPED PORTAL	2,545 M2
1976	DIASADIBER SAKTI	REW. ARCON	HANDLING	BLK. PAPAN	MULTI SPAN PORTAL	270 MT
1976	BUDOG	ARCON	BUDOG WAREHOUSE	PALEMBANG		
1976	UNITED CAN	ARCON	EXTENSION	CILANGGUS	SINGLE SPAN PORTAL FRAME	660 M2
1976	IMPULSIBOJA	ARCON	SPORT HALL EXTENSION	JAKARTA	GYMNASIUM WING	
1976	LAUREL PHARMACEUTICAL	ARCON	PHARMACEUTICAL BUILDING	BANDUNG	SINGLE SOLID PORTAL FRAME	1,250 M2
1976	FERNER GRESIK	ARCON	MANUFACTURING	GRESIK	SINGLE SOLID PORTAL FRAME	1,100 M2
1976	FAYAPARI STEEL	ARCON	MANUFACTURING PLANT	SURABAYA	SINGLE SOLID PORTAL FRAME	3,200 M2
1976	INDIAGRO	ARCON	MANUFACTURING PLANT	CILANGGUS	SINGLE SOLID PORTAL	2,200 M2
1976	DANAMOTOR VESPA	ARCON	CANTEEN BUILDING	JAKARTA	SINGLE SOLID PORTAL	2,300 M2
1976	SANDRATIX	ARCON	TENTHALL EXTENSION	JAKARTA	2 SINGLE SOLID PORTAL FRAME	4,550 M2
1976	BREY CONSTRUCTION	V. MILAUS	TRANSMISSION TOWER	P. WOKRI TO	TRANSMISSION TOWER LEGS	
1976	UNITED CAN	ARCON	CANNING FACTORY	JAKARTA	STRUCTURAL STEEL	1,200 M2
1976	KAWI	ARCON	POWELL FACTORY	JAKARTA	SINGLE SOLID PORTAL	658 M2
1976	P.L.S.	ARCON	GODOWN	JAKARTA	SINGLE CLEAR SOLID PORTAL	417 M2
1976	BUDAGUNG	ARCON	WAREHOUSE	BOGOR	STEEL STRUCTURE	250 M2
1976	HANGUNCIPTA	R.W.	BOOTH	SAWANGAN	STEEL STRUCTURE	100 MT
1976	TENTRA	ARCON	SPINNING MILL	CILANGGUS	STEEL STRUCTURE	6,750 M2
1976	SCHEERING	ARCON	PHARMACEUTICAL PLANT	JAKARTA	STEEL STRUCTURE	1,550 M2
1976	CARDIC AIR	ARCON	WAREHOUSE	JAKARTA	SINGLE CLEAR SOLID PORTAL	21,520 M2
1976	S. WIDDORO DANAMOTOR	ARCON	CANTEEN & RECREATION	JAKARTA	SINGLE SPAN	2,300 M2
1976	SANDRATIX	ARCON	TENTHALL FACTORY	REMPOLA	SINGLE SPAN PORTAL / GODOWN	2,275 M2
1976	UNITED CAN	ARCON	STEEL STRUCTURE	JAKARTA	STEEL STRUCTURE	72 MT
1976	KIWI EXTENSION	ARCON	FACTORY	JAKARTA	SOLID PORTAL FRAME	970 M2
1976	P.L.S. EXPLOAST	ARCON	GODOWN	JAKARTA	SINGLE SPAN PORTAL	420 M2
1976	TENTRA EXTENSION	ARCON	SPINNING MILL	CILANGGUS	TRUSS SYSTEM FRAME	
1976	HALIM GODOWN	ARCON	GODOWN STORAGE	JAKARTA	SINGLE SPAN PORTAL FRAME	1,450 M2
1976	FERNER GRESIK	ARCON	ASBELDAS MANE PLANT	GRESIK	SINGLE SPAN PORTAL FRAME	995 M2
1976	HADA INDONESIA	ARCON	ASSEMBLY PLANT	JAKARTA	SINGLE SPAN PORTAL FRAME	2,800 M2
1976	BECHTEL MOBILE	ARCON	MOBILE ARUNTAHAL PROJ.	ARON	PRE ENGINEERED BUILDING	2,870 M2
1976	BECHTEL	ARCON	ARUNTAHAL FIELD	BELOWAN	VARIOUSE PORTAL FRAME	1,945 M2
1976	DANAPAINI	RAMP	OFFICE BLOCK	JAKARTA	TWO STOREY OFFICE BLOCK	700 M2
1976	PNK TARI MASEGARA	ARCON	LECTURING HALL	JAKARTA	SINGLE SPAN SOLID PORTAL	400
1976	HARI SURABOCCOCEANI	ARCON	GODOWN	JAKARTA	SINGLE SPAN SOLID PORTAL	3,340
1976	DWIYAKIRANA	ARCON	COMPRESSOR STATIONS	PALEMBANG	SINGLE SPAN SOLID PORTAL	1,150
1976	BECHTEL	BECHTEL	GRATEWAY STRUCTURAL	TELUKAWA	STRUCTURE SUPPORT	
1976	ESKOPAL	ARCON	SHOE FACTORY	BOJAKARTA	28 SINGLE SPAN SOLID PORTAL	1,270
1976	ERSENUTTAG	PRO	DRYER BUILDING	JAKARTA	MULTI STOREY BUILDING	625

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## LIST OF PROJECTS

YEAR	CUSTOMER	STRUCTURE ENGRING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
1974	UNION CARBIDE	ARCON	LATEX PREPARATION PLANT	JAKARTA	SINGLE CLEAR-SPAN PORTAL	1,035 M2
1974	WHITLOCK MARDEN	ARCON	PACKING PLANT - FNP	JAKARTA	SINGLE SPAN PROPPED PORTAL	3,448 M2
1974	FRIENSBELMAG	ARCON	MILK FACTORY - W/WHOUSE	JAKARTA	SINGLE SPAN PROPPED PORTAL	3,275 M2
1974	KITWIT	ARCON	GENSMITHY PLANT	JAKARTA	MULTI CLEAR - SPAN PORTAL	543 M2
1974	MULTI ASTRA TOYOTA	ARCON	ASSEMBLY PLANT	JAKARTA	MULTI CLEAR - SPAN PORTAL	30,150 M2
1974	IND. CONSOLIDATED	ARCON	FACTORY	BANDUNG	SINGLE CLEAR-SPAN PORTAL	1,570 M2
1974	PROSPECT MOTOR HONDA	ARCON	ASSEMBLY PLANT	JAKARTA	SINGLE SPAN PROPPED PORTAL	9,438 M2
1974	KIWALARANG	ARCON	TEXTILE MILL	BANDJENG	SINGLE SPAN PROPPED PORTAL	.... M2
1974	KIWALARANG	ARCON	MAIN MILLE W/WHOUSE	BANDUNG	CLEAR SPAN PORTAL ANCHILLARY	8,350 M2
1974	ALCANTAS	ARCON	RE-MELT PLANT	JAKARTA	SINGLE SPAN PROPPED PORTAL	2,150 M2
1974	BREITEN'S AGILE	MOLLEHAY	SHIPET DRILLING PLANT	JAKARTA	SINGLE SPAN PROPPED PORTAL	3,680 M2
1974	BROASRI PELAMINA	ARCON	WAREHOUSE	BOJAL	SINGLE SPAN PROPPED PORTAL	1,260 M2
1974	TROMBLYN	ARCON	TEXTILE MILL	JAKARTA	SINGLE SPAN PROPPED PORTAL	1,850 M2
1974	KAMATEX	ARCON	TEXTILE MILL	UNGARAN	MULTI SPAN PROPPED PORTAL	8,980 M2
1974	BREITEN'S POINT	ARCON	FACTORY	BOGOR	SINGLE CLEAR SPAN PORTAL	1,230 M2
1974	EDATHINX BOLDEN	ARCON	WORKSHOP	JAKARTA	DOUBLE CLEAR SPAN PORTAL	5,150 M2
1974	DIETHLEM	GUDGON	FACTORY	JAKARTA	SINGLE SPAN PROPPED PORTAL	2,050 M2
1974	INSAN APOLLO SUBARI	ARCON	ASSEMBLY PLANT	JAKARTA	MULTI CLEAR SPAN PORTAL	7,340 M2
1974	OMERACO	ARCON	FACTORY	SURABAYA	SINGLE CLEAR SPAN PORTAL	500 M2
1974	INDOSIBK	ARCON	TEXTILE MILL	JAKARTA	SINGLE CLEAR SPAN PORTAL	3,220 M2
1974	LEFONTEX	ARCON	FACTORY	SOLO	MULTI CLEAR SPAN PORTAL	19,500 M2
1974	RHEEM	ARCON	FACTORY	JAKARTA	SINGLE CLEAR SPAN PORTAL	2,950 M2
1974	ARCON SINGAPORE LTD	ARCON	ROUNDED W/WHOUSE COMB.	JAKARTA	SINGLE CLEAR SPAN PORTAL	151,500 M2
1975	NALROAD BUILDERS	RISSIAN	STEEL WORK BDKS	CILIKON	58 TONS STEEL COLUMNS	.... M2
1975	BAKRIE RUBBER LAKERS	SUREBAS	STEEL TUBE FACTORY	JAKARTA	SINGLE CLEAR SPAN PORTAL	8,625 M2
1975	LEPUB	ARCON	WORKSHOP	BEKAPAN	SINGLE CLEAR SPAN PORTAL	1,220 M2
1975	BROASKI PERAMINA	ARCON	WAREHOUSE	DEMET	SINGLE CLEAR SPAN PORTAL	2,000 M2
1975	DECORDNI	ARCON	FLORIDE PLANT	BWANGI	ROOM STRUCTURE	1,150 M2
1975	PROSPECT MOTOR HONDA	ARCON	WAREHOUSE	JAKARTA	SINGLE CLEAR SPAN PORTAL	4,000 M2
1975	LEIFAPAKI	ARCON	FACTORY EXT	JAKARTA	WAREHOUSE PORTAL FRAME	1,560 M2
1975	PORTS TAYA	OPN. RADIO	TELECOMMUNICATION SYSTEM	IRI & SITERA	ANTENNA TOWERS	.... M2
1975	DWYAYAKRASA	ARCON	WAREHOUSE	PALEMBANG	3 SINGLE CLEAR SPAN PORTAL	1,880 M2
1975	TRAKINDO LAMIA/CAI	ARCON	PAPER WAREHOUSE	PALEMBANG	SINGLE CLEAR SPAN PORTAL	1,620 M2
1975	KABEINDO	ARCON	CABLE FACTORY	JAKARTA	MULTI CLEAR SPAN PORTAL	6,450 M2
1975	TEXARA	ARCON	SPINNING MILL	JAKARTA	SINGLE CLEAR SPAN PORTAL	4,700 M2
1975	OKI COMPUTER SUPPLIES	ARCON	WAREHOUSE	JAKARTA	SINGLE CLEAR SPAN PORTAL	1,250 M2
1975	PULPINDIA CORP	ARCON	TELECOMMUNICATION SYSTEM	JAKARTA	2X 25 RADIO MASTS	.... M2
1975	GIRIBANG	MOLLEHAY	BREWERY	TANGKANG	MACHINERY SUPPORT PL. FRAME	.... M2
1975	FACT. PARABOLNETRAC	ARCON	WORKSHOP & WAREHOUSE	JAKARTA	SINGLE CLEAR SPAN PORTAL	3,530 M2
1975	TOAL	ARCON	WAREHOUSE	BEKAPAN	SINGLE CLEAR SPAN PORTAL	2,810 M2
1975	TRAKINDO LAMIA/CAI	ARCON	GODOWNS	JAKARTA	SINGLE CLEAR SPAN PORTAL	420 M2
1975	OCEANIC TELECOMM. SILES	ARCON	WAREHOUSE	BOGOR	MULTI PROPPED PORTAL FRAME	10,475 M2
1975	DELTA SUSAJERA	R.B.W.	BRIDGE	SAWANGAN	SINGLE CLEAR SPAN PORTAL	150 M2
1975	TEBUREN	ARCON	SPINNING MILL	CIMANGGIS	SINGLE CLEAR SPAN PORTAL	2,020 M2
1975	TEXARA	ARCON	PHARMACEUTICAL PLANT	JAKARTA	SINGLE CLEAR SPAN PORTAL	4,400 M2
1975	TEXARA	ARCON	WAREHOUSE	JAKARTA	SINGLE CLEAR SPAN PORTAL	3,420 M2
1975	USACO TROPONA	ARCON	WAREHOUSE	SURABAYA	SINGLE CLEAR SPAN PORTAL	2,625 M2
1975	SANTER TRADING	ARCON	FACTORY	SURABAYA	SINGLE CLEAR SPAN PORTAL	700 M2
1975	BRITISH SCHOOL	ARCON	SCHOOL BUILDING	JAKARTA	SINGLE CLEAR SPAN PORTAL	.... M2
1975	POZZINELI	ARCON	WAREHOUSE	SURABAYA	SINGLE CLEAR SPAN PORTAL	870 M2

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YEAR	CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
1988	MILICO CORP	ASAH	CHEMICAL PLANT	ANSYER	STEEL STRUCTURE	100 MT
1988	IKL INT. SCHOOL	IBC	SCHOOL BUILDING	CIANDAK	STEEL STRUCTURE	300 MT
1989	LIMASNA MUDA	ARKON	MUSERA	SUGANG	SOLID PORTAL	60 MT
1989	FIRST INDICA	ENCONA	MOSQUE	C. KARENG	STEEL STRUCTURE	95 MT
1989	BANGUN PURI MUDA	DELMAL	MILES EXIMBANK	JAKARTA	STEEL FRAME	70 MT
1989	LAYO SIMAR KAYA	IGCC CORP	HEAT PROJECT	CIKAMPEK	PLATE FORM & BUILDING	250 MT
1989	PRIMA LIRANG MINING	PLM	GOLD MINE	W. ISLAND	S STRUCTURE & PLATEWORKS	480 MT
1989	CALTEX PACIFIC P.D.	CP	SPILL TAIL	DEMAL	STEEL STRUCTURE	200 MT
1989	ENCO	DEMAK	STACK & DUCT WORK	SOROKKO	PLATEWORKS	200 MT
1989	DE LARAKASHA	GRYANTAR	SCHOOL BUILDING	JAKARTA	STEEL FRAME	200 MT
1989	IBS	CHR	BRIDGES	EX WORKS	STEEL STRUCTURE	50 MT
1989	TRAKINDO PTAMA	TRWELGER	TRUCK & WAREHOUSE	CIANDAK	STEEL STRUCTURE	250 MT
1989	KABEL METAL IND	ARKON	RUNWAY BEAM	JAKARTA	STEEL STRUCTURE	MT
1989	PLN CIREBON	PLN	CABLE SUPPORT	CIREBON	STEEL STRUCTURE	MT
1989	PRIMA LIRANG MINING	PLM	GOLD MINE	W. ISLAND	STEEL STRUCTURE	60 MT
1989	FREI PORT INDONESIA	FLOOR DNE	PILE & STORAGE	TEMIPURA	STEEL STRUCTURE	3,000 MT
1989	CALTEX PACIFIC IND	ARKON	METERING STATION	DEMAL	STEEL FRAME	MT
1989	PRIMA LIRANG MINING	PLM	GOLD MINE	W. ISLAND	STEEL STRUCTURE	60 MT
1989	DE L SANDOZ	ENCONA	WAREHOUSE & OFFICES	JAKARTA	SOLID PORTAL	90 MT
1989	SURABINDAH WOOD	BMWE	FACTORY	SURABAYA	SOLID PORTAL	1,000 MT
1989	KALIMANIS PLYWOOD	ARKON	FACTORY	EX WORKS	SOLID PORTAL	50 MT
1989	ESRI TANAH ABANG	IGCC	FACTORY	BANDUNG	STEEL STRUCTURE	MT
1989	LAKO VINDAH	ARKON	FACTORY	EX WORKS	STEEL STRUCTURE	80 MT
1989	JAVARA INT. SCHOOL	IBS	GYMNASIUM	CIANDAK	STEEL STRUCTURE	50 MT
1989	PRIMA LIRANG MINING	PLM	GOLD MINE	W. ISLAND	STEEL STRUCTURE	100 MT
1989	ENCO	ENCO	PILE RACK & CONVEYOR	EL PRIOK	STEEL STRUCTURE	80 MT
1989	KATROLIN	KATROLIN	GLAHLANGAI	C. KARENG	BUILT UP RUNWAY BEAM	125 MT
1989	KALIMANIS PLYWOOD	ARKON	FACTORY	EX WORKS	STEEL STRUCTURE	65 MT
1989	KALIMANIS PLYWOOD	ARKON	WAREHOUSE	EX WORKS	SOLID PORTAL	65 MT
1989	CIWA GIBBY	TRWELGER	WAREHOUSE	JAKARTA	SOLID PORTAL	150 MT
1989	KIANI SAKTI	ARKON	FACTORY	EX WORKS	SOLID PORTAL	200 MT
1989	MILARGO PANTI		SPINNING MHI	C. KARANG	STEEL STRUCTURE	700 MT
1989	HAMPARAN REJEKI	ARSIDIAN	ACRIFIC HOURI	SERANG	STEEL STRUCTURE	3,100 MT
1989	FREI PORT INDONESIA	FLOOR DNE	PILE & STORAGE	TEMIPURA	ERECTION	3,000 MT
1989	REKAYASA INDUSTRI	REKAYASA	PIPERI TUB	PALEMBANG	STEEL STRUCTURE	600 MT
1989	REKAYASA INDUSTRI	REKAYASA	PIPERI TUB	PALEMBANG	FIRE HEATER STRUCTURE	400 MT
1989	SANDOZ CHEMICAL	ENCONA	SANDOZ CHEMICAL	JAKARTA	STEEL STRUCTURE	400 MT
1989	INDOCTANIEL	PROTEING	CONVEYOR	CIHONG	CONVEYOR STRUCTURE	600 MT
1989	BABDOCK WILCOCK IND	CHYODA	TRAIN BONTANG	BONTANG	BOILER SUPPORT	800 MT
1989	IKP.I	CHYODA	PIPERI KUBANG	ORENDE	STEEL STRUCTURE	1,000 MT
1989	KELLOGG SRIWIDAY	CHYODA	TRAIN BONTANG	BONTANG	STEEL STRUCTURE	1,100 MT
1989	KELLOGG SRIWIDAY	CHYODA	TRAIN BONTANG	BONTANG	EMBEDDED & HAMPIRE	MT
1989	MAKEL	SUMEDONG	DEK PAPAN	DEK PAPAN	TERMINAL AIRPORT	5,500 MT
1989	BALFOUR BEATTY SAKTI	PLM	KRIENING PASIR	SUMATERA	STEEL STRUCTURE	MT
1989	PRIMA LIRANG MINING	PLM	GOLD MINING	W. ISLAND	LIME STEEL WORK	50 MT
1989	FREI PORT INDONESIA	FLOOR DNE	PILE & STORAGE	TEMIPURA	UTILITY PLANT	200 MT
1989	IGCC CORP	DEMAK	NUKLEAR PLANT	JAKARTA	STEEL TOWER & SUBSTATION	MT
1989	FREI PORT INDONESIA	FLOOR DNE	OFFICE WAREHOUSE	JAKARTA	STEEL STRUCTURE	MT
1989	PANGAN SARI LAGO	ARKON	OFFICE BUILDING	CIRACAS	STEEL STRUCTURE	MT
1989	IGCC	IGCC	EXHAUST	BALONGAN	EQUIPMENT SUPPORT	1,000 MT
1989	FREI PORT INDONESIA	FLOOR DNE	GOLD MINE	TEMIPURA	MT	MT

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## LIST OF PROJECTS

YEAR	CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TOTAL AREA
1984	HADAK ENGI	ARC ON	FIRE BUILDING	BONTANG	SOLID PORTAL	95
1984	PRESEKTEH	BPPI	GOODOWN	LAMPUNG	TRUSS RAFTER	80
1984	CALTEX PACIFIC IND.	ARC ON	MOTOR BIKE SHELTER	RUMAH	TRUSS RAFTER	17
1984	SANGGAR SARANA BATA	TRAVELER	WORKSHOP	PEL. GADUNG	TRUSS RAFTER	6,50
1984	BIHUNY MIKA SEKAWAN	ARC ON	GOODOWN, FACT & OFFICE	CILANDAK	SOLID PORTAL	19,00
1984	HANDARA GRAHA	ALIBRE	FACTORY	CAKUNG	SOLID PORTAL	2,58
1984	PETROSEA	PROCONSUL	WORKSHOP	LENG. TANJAI	SOLID PORTAL	1,58
1984	PETROSEA	MEG	ADMINISTRATION BLDG	ARUN	TRUSS RAFTER	60
1985	LI RONG TANDAI	PROCONSUL	GOLD MINE	LAMPUNG	STRUCTURAL STEEL BLDG	31
1985	PURNA BINA BOKETI	PHI	RECOVERY PLANT	CILEGON	STRUCTURAL STEEL BLDG	15
1985	HANDARA GRAHA	ARC ON	TEMPORARY WAREHOUSE	EL EMIM	SOLID PORTAL	7
1985	BALFOUR BEAUTY SAKTI	REPLA	POWER STATION	INDONESIA	SOLID PORTAL	36
1985	ELHNS AMIRA INDAH	ARC ON	TEXT FACTORY	WEST JAVA	2 STORIES SOLID PORTAL	1,20
1985	CAROLD INDONESIA	ARC ON	REFRIGERATION BLDG	MERAK	SOLID PORTAL	5
1985	HURPLE INDIANES LTD	HELELD	PIPE - ATTACHED DIE-CAST	INDONESIA	CRANE BOX GIRDER	
1985	CALTEX PACIFIC IND	ARC ON	EXHIBITION WAREHOUSE	DURI	SOLID PORTAL	21
1985	BALFOUR BEAUTY SAKTI	ARC ON	STEAM POWER PLANT	SURABAYA	TUBES AND DUCT	4,57
1985	WIDAYAKUSUMAYANTI	TRIPRANI	TRANS. PORT. TERMINAL	LABEL	TUBULAR GOODS	600
1985	KALIMANIS PLYWOOD	ARC ON	WAREHOUSE	CHURUR	SOLID PORTAL	1,58
1986	BALFOUR BEAUTY SAKTI	PHI	BRIDGE	INDONESIA	STEEL STRUCTURES	211
1986	KE IN. S. JOOL	PHI	SCHOOL BLDG	CILANDAK	STEEL TRUSSES	175
1986	SANITAJURMI PLYWOOD	ARC ON	SAWMILL PLANT	SAMARINDA	SOLID PORTAL	4,000
1986	KATHOLIK	ARC ON	GLASSWASH	C. KARENE	BUILT UP RUNWAY BEAM	18
1986	BALFOUR BEAUTY SAKTI	PHI	GALVANIZING SHOP	BEKASI	STEEL STRUCTURES	420
1986	CALTEX PACIFIC IND	ARC ON	SALT MTD GOODOWN	DURI	SOLID PORTAL	3,00
1986	BALFOUR BEAUTY SAKTI	PHI	BRIDGE	IRIAN	STEEL BRIDGES	
1986	CALTEX PACIFIC IND	ARC ON	OFFICE & GARAGE BLDG	DURI	SOLID PORTAL	
1986	LUSANG MENING	PROCONSUL	GOLD MINE	LAMPUNG	TANKS SUPPORT	5
1986	CALTEX PACIFIC IND	ARC ON	CAMP'S OFFICE SERV	DURI	SOLID PORTAL	133
1986	KALIMANIS PLYWOOD	ARC ON	SAWMILL PLANT & WAREHOUSE	SAMARINDA	SOLID PORTAL	4,500
1986	CALTEX PACIFIC IND	ARC ON	RUMAH MAIN OFFICE	RUMAH	SOLID PORTAL	35
1986	IGC CORPORATION	PAV. TPE	LOGS TRACTION PROJECT	ARUN	STEEL STRUCTURE	905
1986	KALIMANIS PLYWOOD	ARC ON	WAREHOUSE	SAMARINDA	SOLID PORTAL	1,050
1986	PANCA PAKAMA	ARC ON	FACTORY & GENERATOR	P. BART	SOLID PORTAL	1,500
1986	BEACH ZOSSEN CORP	PAV. TPE	KRAFT PAPER MANUFACTURE	EX WORKS	STEEL STRUCTURES	7,530
1987	IREBOR INDONESIA	ARC ON	WAREHOUSE	JAKARTA	STEEL STRUCTURES	22
1987	J. M. H. D. U. L. A. M. A.	ARC ON	WAREHOUSE	EX WORKS	SOLID PORTAL	10
1987	LUSANG MENING	PROCONSUL	TANKS & SUPPORT	EX WORKS	STEEL STRUCTURES	
1987	KALIMANIS PLYWOOD	ARC ON	SAWMILL WAREHOUSE	EX WORKS	SOLID PORTAL	71
1987	KALIMANIS PLYWOOD	ARC ON	SAWMILL WAREHOUSE	EX WORKS	SOLID PORTAL	75
1987	KALIMANIS PLYWOOD	ARC ON	FACTORY & WAREHOUSE	EX WORKS	SOLID PORTAL	
1988	PURNA BINA INDONESIA	ARC ON	POLYOLS	CILEGON	STEEL STRUCTURES	210
1988	BALFOUR BEAUTY SAKTI	WP. LONDON	SUPPORT STEEL WORKS	BONTANG	STEEL STRUCTURES	385
1988	KALIMANIS PLYWOOD	ARC ON	FACTORY	SAMARINDA	SOLID PORTAL	281
1988	BALFOUR BEAUTY SAKTI	WP. LONDON	STACKS	EX WORKS	STEEL FRAM	110
1988	R. C. T. E.	PH. CROCKER	STUDIO & ADMIN BUILDING	JAKARTA	STEEL STRUCTURES	600
1988	I. U. S. E.	PH. SWISSA	FACTORY & WAREHOUSE	JAKARTA	STEEL STRUCTURES	150
1988	ALIBRE CORP	PAV. TPE	PARANYLENE	EX WORKS	SOLID PORTAL	703
1988	KRAFT PAPER BLDG	PAV. TPE	WAREHOUSE	EX WORKS	SOLID PORTAL	300
1988	SAGATRADE MURNI	ARC ON	FACTORY	EX WORKS	SOLID PORTAL	50

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LIST OF PROJECTS

NO	CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
81	SANTIAH	ARCON	WAREHOUSE	MERAK	SINGLE PORTAL	20 MT
81	SANDRALEX	ARCON	WAREHOUSE	JAKARTA	RIBED PORTAL	350 MT
81	FERNI GRESID	ARCON	FACTORY	JAKARTA	PORTAL	115 MT
81	KAWI	ARCON	WAREHOUSE	JAKARTA	DOUBLE SPAN	10 MT
81	BIRHINTANG	DESERTO	FACTORY	JAKARTA	SINGLE PORTAL	120 MT
81	BUCUMYAMKA SEKAWAN	ARCON	OFFICE	JAKARTA	SOLID PORTAL	70 MT
81	BAKRIE ARBID	ARCON	FACTORY	JAKARTA	SINGLE PORTAL	95 MT
81	BULOG PALANGKANG	ALALANTA	WAREHOUSE	PALEMBANG	SOLID PORTAL	110 MT
81	BULOG SURABAYA III	ALALANTA	WAREHOUSE	SURABAYA	SOLID PORTAL	1.295 MT
81	BULOG SEMARANG	ALALANTA	WAREHOUSE	SEMARANG	SOLID PORTAL	865 MT
81	KALIHOLD	ULAMAGIP	FACTORY	SAMARINDA	SOLID PORTAL	790 MT
81	FRANKA KABEL	ARCON	FACTORY	JAKARTA	SOLID PORTAL	110 MT
81	KARYA LOGAM	ARCON	FACTORY	BEKASI	TRIED PORTAL	100 MT
81	RADIANT BYPAR	ARCON	OFFICE	CILACAP	TRIED PORTAL	65 MT
81	ARISTIKA	ARCON	WAREHOUSE	CIAKING	TRIED PORTAL	40 MT
81	BUCUMYAMKA SEKAWAN	ARCON	OFFICE	JAKARTA	SOLID PORTAL	85 MT
81	HELMAN SURABAYA	HELMAN	STEEL FLIER	SURABAYA	STEEL LINER	850 MT
81	HELMAN BALIKPAPAN	HELMAN	STEEL FLIER	BALIKPAPAN	STEEL LINER	320 MT
81	INDOCHEMEST	HOLLAND	CEMENT FACTORY	CIBINONG	PREHEATER SILO	1.310 MT
81	SANAEFE	ARCON	WAREHOUSE	MERAK	WAREHOUSE	25 MT
81	PUPUK ISKANDARAHUDA	LOYDENG	FACTORY	ACIPI	SOLID PORTAL TRUSS	3.260 MT
81	PANCAEKAHINA	ARCON	FACTORY	SUMATERA	PLYWOOD FACTORY	400 MT
81	BARCOCK WILCOCK CAN	MONENCO	STEAM POWER PLANT	SURABAYA	STEAM POWER PLANT	6.800 MT
81	SINAR PELING	ARCON	FACTORY	BALAM	SOLID PORTAL	3.695 MT
81	CALDEX PACHENGO	ARCON	PURIFIER ALUM	RIUBAI	SOLID PORTAL	500 MT
81	PANCAEKAHINA	ARCON	GODOWN WORKSHOP	PELANGBARU	SOLID PORTAL	580 MT
81	CALDEX PACHENGO	ARCON	MOTOR DIESEL FLIER	RENGAS	TRUSS RAILER	585 MT
81	KAGRO	ARCON	FACTORY	BEKASI	SOLID PORTAL	320 MT
81	INDOCHEMEST	ESWISS	COAL STORAGE	CITURUP	SOLID PORTAL	660 MT
81	HANDMA GRAFA	TRIPATRA	WORKSHOP POWER ST	TEJENIM	SOLID PORTAL	2.400 MT
81	INDOCHEMEST	ESWISS	COAL STORAGE	CIBINONG	SOLID PORTAL	660 MT
81	PANCAEKAHINA	ARCON	FACTORY	PEKANBARU	SOLID PORTAL	1.835 M2
81	GARUDA MAHAKAM	DIAGANA	FACTORY	CIBINONG	SOLID PORTAL	4.475 M2
81	CALDEX PACHENGO	CPI	BUILDING	RIUBAI	SOLID PORTAL	275 M2
81	BALFOUR BEATLY SAKTI	ARCON	FACTORY	CIMANGGIS	SOLID PORTAL	16.635 M2
81	BALFOUR BEATLY SAKTI	ARCON	ASSEMBLING	CIMANGGIS	SOLID PORTAL	885 M2
81	CALDEX PACHENGO	ARCON	MOTOR DIESEL FLIER	PELANGBARU	TRUSS RAILER	1.000 M2
81	BALFOUR BEATLY SAKTI	ARCON	OFFICE	CIMANGGIS	SOLID PORTAL	290 M2
81	BALFOUR BEATLY SAKTI	B MARGA	BRIDGE	CILENGSI	COMPOSITE BEAM	60 M2
81	INDOCHEMEST	ARCON	CEMENT SHED	CIKAPUNG	CYLINDRICAL HOPPER	100 M2
81	PROMITS	KAISERENG	CEMENT FACTORY	CIBINONG	MISCELLANEOUS STEEL	50 MT
81	BALFOUR BEATLY SAKTI	BUS	BRIDGE	SUMATERA	COMPOSITE BEAM	MT
81	JOHN HOLLAND	ARCON	FACTORY	LAMPUNG	SOLID PORTAL	1.400 M2
81	BALFOUR BEATLY SAKTI	ARCON	AC STATION	CIMANGGIS	PORTAL FRAME	490 M2
81	MURIANO	APARC	OFFICE BUILDING	BANDUNG	PORTAL FRAME	865 M2
81	JOHN HOLLAND	ARCON	WAREHOUSE	LAMPUNG	SOLID PORTAL	550 M2
81	JOHN HOLLAND	IBIT	MONORAIL TRACK	LAMPUNG	PORTAL FRAME	MT
81	CONCOCK	ARCON	CEMENT SHED	CIKAPUNG	CYLINDRICAL HOPPER	50 MT
81	HELMAN INDONESIA	ARCON	WORKSHOP	PELANGBARU	SOLID PORTAL	1.285 MT
81	ADOUR HOLLAND	ARCON	BEACON OVERHEAD	ACIPI	SOLID PORTAL	990 M2

A GLOBAL STEEL FABRICATOR, RELIABLE IN QUALITY AND DELIVERY,  
COMMITTED TO TOTAL CUSTOMER SATISFACTION

## LIST OF PROJECTS

YEAR	CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
75	SERDID & CO	ARCON	LOW COST HOUSING	C. PAANDANG	TYPE 6A C	...
78	IB-DI AGUNG	ARCON	OFFICE BUILDING	BOGOR	CAP STRUCTURE	...
78	SEALAYATI BATTERY	ARCON	FACTORY & OFFICE	TANGERANG	SINGLE SPAN SOLID PORTAL	...
77	DIMENSION ENGINEERING	ARCON	STR. STEEL PLANT		STEEL SIDEWALL FARMING	...
78	FOOD SPECIALTIES	ARCON	EXT. TO POWERED MILK	SURABAYA	SINGLE SPAN SOLID PORTAL	...
78	SANDRALEX	ARCON	POWER HOUSE	JAKARTA	SINGLE SPAN SOLID PORTAL	...
79	DE FICO	ARCON	HANGAR & GODOWN	JAMBI	VARIOUS	...
79	TRAKINDO CIAMPA	ARCON	WORKSHOP	BUK. PAPAN	VARIOUS	...
79	AEK GADIS TIMBER	ARCON	FACTORY	SIBOLGA	ROOFING	...
79	HERIFINA	ARCON	FACTORY EXTENSION	PANDANG	ARCON SOLID PORTAL	...
79	GANDY AGUNG	ARCON	FACTORY			...
79	RANLAWATI TIMBER	ARCON	GODOWN	C. PANDANG		...
79	SEAMEN PADANG	ARCON	CEMENT FACTORY	PADANG	ARCON SOLID PORTAL	...
79	SANTALIFE FOREMBY	ARCON	WAREHOUSE	MERAK		...
79	MOBIL OIL INDONESIA	ARCON	WAREHOUSE & SERVICE BLDG	LK. SUKON	VARIOUS	...
79	IN TORCH	ARCON	FACTORY	JAKARTA	STR. STEEL & FIXING	...
79	RIMBA DE WOOD	ARCON	FACTORY	PADANG	ARCON SOLID PORTAL	...
79	JOHN HOLLAND	ARCON	CEMENT FACTORY EXT.	CHINONG		...
79	ARISCO	ARCON	GODOWN	SEMARANG	VARIOUS	...
79	DES SEAMEN PATAH C.	ARCON	GODOWN FOR D. S. HILL	PADANG	ARCON SOLID PORTAL	...
79	FOOD SPECIALTIES	ARCON	EXT. POWDER MILK	SURABAYA	VARIOUS	...
79	KANALITEX	ARCON	EXT. TO SPINNING MILL	P. GARAS	TIED PORTAL	...
79	GANDY AGUNG	ARCON	GODOWN	BEKASI	ARCON SOLID PORTAL	...
79	DEE PAINT	ARCON	RESIN MANUFACTURE PLANT	C. MANGGES	VARIOUS	...
79	HITA SAKTI	ARCON	FACTORY BUILDING	CH. CAMP	2 STOREY, 150.251 NO. T.100	...
79	LIKE SPRING	ARCON	GARAHNTE FACTORY	JAKARTA	VARIOUS	...
79	PAULAN L'AS	ARCON	GODOWN	JAKARTA	STRUCTURAL STEEL WORKS	...
79	TRAKINDO CIAMPA	ARCON	DEALER FACILITY BLDG	PALEMBANG	WAREHOUSE & OFFICE	...
79	TRAKINDO CIAMPA	ARCON	DEALER FACILITY BLDG	C. PANDANG	WAREHOUSE & OFFICE	...
79	TRAKINDO CIAMPA	ARCON	DEALER FACILITY BLDG	BORNEO	WAREHOUSE & OFFICE	...
79	WODD BATH	ARCON	DENTAL GODOWN	JAKARTA	STEEL STRUCTURAL	...
79	PIAHANGUNAN TAYA	ARCON		SULAWESI	5 NO. HOUSES	...
79	INGRA	ARCON	MANUFACTURE GODOWN	JAKARTA	ARCON SOLID PORTAL	...
79	SOLAR SAKTI	TRITWEGER	PAPER FACTORY	JAKARTA	ARCON SOLID PORTAL	...
79	KANGAR CONSOLIDATED	ARCON	GLASS FACTORY	BEKASI	FURNACE BUILDING	120 M2
79	DE LAMIA KARYA	ARCON	PANRANG WATER SUPPLY	PALEMBANG	MULTI CLEAR SPAN PORTAL	1,930 M2
79	FOOD SPECIALTIES IND	US SWISS SA	WAREHOUSE	SURABAYA	MULTI CLEAR SPAN PORTAL	1,720 M2
79	CHOW BERSAUDARA	ARCON	WAREHOUSE	BEKASI	MULTI CLEAR SPAN PORTAL	1,100 M2
79	JOHN HOLLAND CONSE	TRITWEGER	CEMENT & CEMENT SHEL	CHINONG	SHEL	500 M2
79	UNITED CAN	AL ARB	FACTORY	TANGERANG	SINGLE CLEAR SPAN PORTAL	1,950 M2
79	TRAKINDO CIAMPA	TRITWEGER	WORKSHOP	BK. PAPAN	PROPPED PORTAL	1,280 M2
79	SURF ANGO	AL ARB	FACTORY	BANDUNG	MULTI SPAN TIED PORTAL	1,290 M2
79	TRAKINDO CIAMPA	TRITWEGER	WORKSHOP	SURABAYA	PROPPED PORTAL	500 M2
79	KERUS BUNGA	ARCON	WAREHOUSE	JAKARTA	SINGLE CLEAR PORTAL	5,050 M2
79	ATLANTE RICHIE LTD	ARCON	TOWER	JAKARTA	PROPPED PORTAL	50 M2
79	SCHILD BURGER	ARCON	CAMP	MERAK	SITE ENGINEER CAMP	400 M2
79	NURF ANGO	AL ARB	STORAGE	BANDUNG	AIRCRAFT CENTRAL STORAGE	75 M2
79	ASAMERA LIMITED	ARCON	WAREHOUSE	BLAU	SINGLE CLEAR SPAN PORTAL	1,450 M2
79	DE KAKAMBAI	ARCON	STEEL COVER HOUSE	C. PANDANG	TWO STOREY BUILDING	...
79	K. C. D.	AL AL ARB	WAREHOUSE	FASTAWA	SINGLE CLEAR SPAN PORTAL	...

A GLOBAL STEEL FABRICATOR, RELIABLE IN QUALITY AND DELIVERY,  
COMMITTED TO TOTAL CUSTOMER SATISFACTION



LIST OF PROJECTS

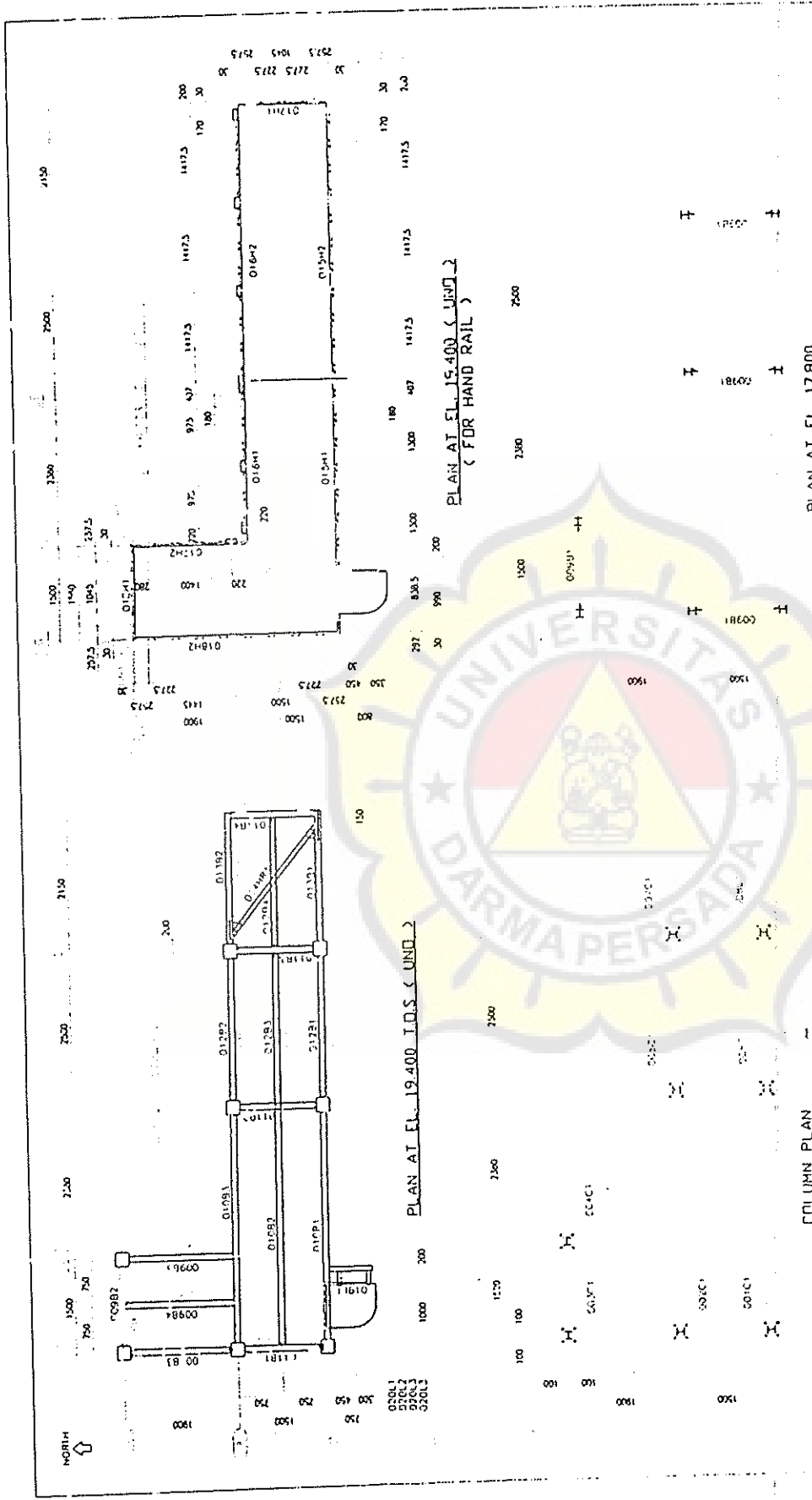
NO	CUSTOMER	STRUCTURE ENGINEERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
77	KAR BANSUDING	ARCON	LOW COST BUILDING	BANDUNG	TYPE 63C	...
77	KAR BANSUDING	ARCON	MARBLE SHEET	BANDUNG	SINGLE SPAN SOLID PORTAL	...
78	KAMALITA	ARCON	MEZZANINE FLOOR	UNGARAN	STRUCTURAL STEEL WORK	...
78	SANDANG PAMAI	ARCON	LOW COST BUILDING	P. PANDANG	2 HOUSE TYPE 55 B	...
78	ROY AL HUDA INGLON	ARCON	OFFICE BLOCK	DEKAPAN	SOLID PORTAL BLDG	...
78	COMITIED INDONESIA	ARCON	ANIMAL FEED COMPOUND		PROPPED PORTAL BUILDING	...
78	PIONEER LAY	ARCON	WOODWORKS FACTORY	P. PANDANG	ARCON TIRD SOLID PORTAL	...
78	PEMDA POLWALI	ARCON	LOW COST BUILDING	PELEWALI	20 HOUSES TYPE A 70	...
78	INSUAGRO INO	ARCON	GODOWN	CILANGGIS	MULTI SPAN SOLID PORTAL	...
78	ETERNI GRISE	ARCON	STORAGE	SURABAYA	STRUCTURAL STEEL WORK	...
78	ADI SAHPUTRA	ARCON	GODOWN	SEMARANG	ARCON TIED PORTAL BLDG	...
78	BALAJINDI PLAMA	ARCON	CONTROL ROOM	JAKARTA	STEEL STRUCTURE	...
78	METROPOLITAN KENCANA	ARCON	LOW COST HOUSING	HRG PERMAI	24 HOUSES	...
78	INSUGA	ARCON	STAND OFF AREA	CILANGGIS	SOLID PORTAL BLDG	...
78	SANDRA TEN	ARCON	LOW COST HOUSING	JAKARTA	1 ROW T.A & 2 ROW T.B	...
78	INSUGA	ARCON	GODOWN	CILANGGIS	SOLID PORTAL BLDG	...
78	ARAYA CORPORATION	ARCON	PIEDestal IN SHEET	SURABAYA	21 LOTS OF ST. STRUCTURES	...
78	SURABAYA INDAH	ARCON	SHOPPING CENTRE	SURABAYA	STEEL STRUCTURE	...
78	P. LKA	ARCON	GODOWN	BANDUNG	SOLID PORTAL STRUCTURE	...
78	MELATI YOGA SAKTI	ARCON	LEAD GLASS MESH ARAKALAN	KUNINGTAL	SOLID PORTAL STRUCTURE	...
78	LAYA ORAYASHI	ARCON	SPINNING MBL	TANGURANG	SOLID PORTAL STRUCTURE	...
78	INDIGO	ARCON	FACTORY BUILDING	PEKADING	SOLID PORTAL STRUCTURE	...
78	SURABAYA RAYA	ARCON	...	JAKARTA	C. TIPPED CHANNELS	...
78	PIONEER LAY	ARCON	WOODWORKING FACT	P. PANDANG	SOLID PORTAL STRUCTURE	...
78	SUBIHO INDONESIA	ARCON	PLANT WOOD PULP FACT	JAKARTA	SOLID PORTAL STRUCTURE	...
78	KARAWASARI	ARCON	PILE DRIVEN	JAKARTA	PILE DRIVEN	...
78	KAB INDRAYATI	ARCON	LOW COST HOUSING	INDRAYATI	TYPE 63C	...
78	WIRADATA	ARCON	WAREHOUSE	D. WANGI	SINGLE SPAN SOLID PORTAL	...
78	SERDID & CO	ARCON	LOW COST HOUSING	P. PANDANG	TYPE 63C	...
78	SERDID & CO	ARCON	LOW COST HOUSING	P. PANDANG	TYPE 63C	...
78	HUDI AGUNG	ARCON	GULF BUILDING	BOGOR	CAP STRUCTURE	...
78	SIAMAWA BATTERY	ARCON	FACTORY & OFFICE	TANGURANG	SINGLE SPAN SOLID PORTAL	...
78	DIMENSION ENGINEERING	ARCON	STEEL SHEET PILING		STEEL SIDEWALL PILING	...
78	FOOD SPECIALTIES	ARCON	EXT. POWDERED MILK	SURABAYA	SINGLE SPAN SOLID PORTAL	...
78	SANDRA TEN	ARCON	POWER HOUSE	JAKARTA	SINGLE SPAN SOLID PORTAL	...
78	IBECU	ARCON	HANGAR & GODOWN	JAMBI	VARIOUS	...
78	TRAKINDO PLAMA	ARCON	WORKSHOP	DEKAPAN	VARIOUS	...
78	AEK GADIS TIMBER	ARCON	FACTORY	SIBOLGA	ROOFING	...
78	BERLINA	ARCON	FACTORY EXTENSION	PANDAAN	ARCON SOLID PORTAL	...
78	CIANDA AGUNG	ARCON	FACTORY			...
78	RAMAWATI TIMBER	ARCON	GODOWN	P. PANDANG		...
78	SEMPEN PADANG	ARCON	CEMENT FACTORY	PADANG	ARCON SOLID PORTAL	...
78	SANJEE PONDARYO	ARCON	WAREHOUSE	MERBE		...
78	MORIBOH INDONESIA	ARCON	WAREHOUSE & SERVICE BLDG	TE. SUKON	VARIOUS	...
78	P. ORU	ARCON	FACTORY	JAKARTA	STR. SHEET PILING	...
78	RISHABHAWOOD	ARCON	FACTORY	PADANG	ARCON SOLID PORTAL	...
78	JOHN HOLLAND	ARCON	CEMENT FACTORY EXT	CHUNONG		...
78	BRINCO	ARCON	GODOWN	SEMARANG	VARIOUS	...
78	DES SEMEN PADANG	ARCON	GODOWN FOR TENCH	PADANG	ARCON SOLID PORTAL	...
78	FOOD SPECIALTIES	ARCON	EXT. POWDERED MILK	SURABAYA	VARIOUS	...
78	KAMALITA	ARCON	EXT. SPINNING MBL	UNGARAN	TIED PORTAL	...

A GLOBAL STEEL FABRICATOR, RELIABLE IN QUALITY AND DELIVERY,  
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## LIST OF PROJECTS

BAR	CUSTOMER	STRUCTURE ENGINERING	PROJECT	LOCATION	TYPE OF BUILDING	TON & AREA
077	KAMALTEA	ARCON	EXT. OF SPINNING MILL	UNGARAN	EXT. MULTI SPAN BLDG	1,700
077	LABORATORIUM CPTA	ARCON	EXT. OF HOTEL ELANA	INDUNG	TWO STORAGE OFF SYSTEM	365
077	BIMA SAKTI	ARCON	FACTORY BUILDING & GODOWN	TANGERANG	SOLID PORTAL FRAMES	1,180
077	CONSERVE INSOMESIA	ARCON	POWER HOUSE BUILDING	JAKARTA	STEEL STRUCTURE	N/A
077	HENTRA	ARCON	POWER HOUSE	TANGERANG	SOLID PORTAL FRAMES	1,650
077	UNITED CAN	ARCON	MEZZANINE FLOOR	TANGERANG	TRUSS FRAMES	180
077	FOOD SPECIALISTES	ARCON	WAREHOUSE-CEREAL BLDG	SURABAYA	SOLID PORTAL FRAMES	2,000
077	CARDIG AIR	ARCON	OFFICE BLOCK	JAKARTA	TWO STORAGE OFF SYSTEM	800
077	INDONESIA CRATI	ARCON	CIRIBON PORT PROJECT	CIRIBON	SOLID PORTAL FRAMES	16,000
077	BROGASRIE FLOOR MILL	ARCON	BROGASRIE FLOOR MILL	BURUR	RIDGE VENTILATOR	120
077	BAU FAMBHE HLE	ATA	TILE & BRICK FACTORY	SURABAYA	SOLID PORTAL FRAME	
077	BPP BILUNG	ARCON	GODOWN FOR BPP BILUNG	SURABAYA	SINGLE CLEAR SPAN PORTAL	1,000
077	HIGSCHEID PHARMATICAL	ARCON	PHARMATICAL WAREHOUSE	JAKARTA	SINGLE CLEAR SPAN PORTAL	1,180
077	GR.GODEFATH	ARCON	TEXTILE FACTORY EXT.	CAKUNG	SINGLE CLEAR SPAN PORTAL	1,520
077	ETERNU GRESIK	E. GRESIK	PLATEWORKS	SURABAYA	STEEL WORKS	...
077	PT. N.	CT. MAIN	STUB ANGLES	CIRIBON	STEEL WORKS	...
077	NAMTEX	ARCON	WORKSHOP & GARAGE	INDUNG	SINGLE CLEAR PORTAL	1,184 M2
077	SUPANG JAWA	ARCON	GODOWN	SEMARANG	SINGLE CLEAR PORTAL	1,085 M2
077	KARYA LOGAMI	ARCON	FACTORY & OFFICE BLDG	DEKAS	SINGLE CLEAR PORTAL	1,315 M2
077	WASIRA INDAH	ARCON	TEXTILE MILL	SEMARANG	SINGLE CLEAR PORTAL	6,600 M2
077	IRGA INDAH	ARCON	FACTORY & OFFICE BLDG	JAKARTA	MULTI CLEAR SPAN & OFFICE	2,000 M2
077	ALG. SUGIHAL. PURNIA	ARCON	OFFICE & WORKSHOP	DEKAPAN	TWO STOREY OFFICE BLOCK	1,000 M2
077	FOOD SPECIALISTES	ARCON	WAREHOUSE	SURABAYA	SINGLE CLEAR SPAN PORTAL	1,825 M2
077	TRAKINDO LAMA	ARCON	OFFICE WORKSHOP	SIIDAN	SOLID PORTAL	4,150 M2
077	INDONESIA	ARCON	PHARMACEUTICAL	TANGERANG	DOUBLE SPAN SOLID PORTAL	2,450 M2
077	ETERNU GRESIK	E. GRESIK	STORAGE OFFICE R&I	GRESIK	TIED PORTAL	1,400 M2
077	ETERNU GRESIK	E. GRESIK	PROCESS EQUIPMENT	GRESIK	TIED PORTAL	...
077	DIAN PAM	DIAN PAM	EXT. PROJECT FOR TOR	JAKARTA	SINGLE CLEAR SPAN PORTAL	4,100 M2
077	HENTRA	ARCON	SPINNING MILL	JAKARTA	TWO STOREY BUILDING	850 M2
077	SUGRAMA ELANA	ARCON	BROGASRIE FLOOR MILL	CHUSONG	RIDGE VENTILATORS	...
077	GENUNG ELANA	CT. MAIN	POWER TRANS. LINE PylonS	BANDUNG	TEMPLATE FOR STUB ANGLES	...
077	DIAGMA MANGA	CT. MAIN	POWER TRANS. LINE PylonS	BANDUNG	TEMPLATE FOR STUB ANGLES	...
077	DEON. ABADI	CT. MAIN	POWER TRANS. LINE PylonS	BANDUNG	TEMPLATE FOR STUB ANGLES	...
077	ARISTIKA	ARCON	EXT. TWO TIE FACTORY	JAKARTA	MULTI SPAN TIED PORTAL	1,450 M2
077	ETERNU GRESIK	E. GRESIK	TANK FOR FACTORY PLANT	GRESIK	TANK	...
077	CHWONG INDAH	ARCON	GODOWN	JAKARTA	SINGLE CLEAR SPAN PORTAL	1,000 M2
077	SANDPATEA	ARCON	SPINNING MILL	JAKARTA	MULTI PROPPED PORTAL	15,000 M2
077	MEDROPHAN DIA	ARCON	LOW COST HOUSING	JAKARTA	TYPE 63C	...
077	ETERNU GRESIK	ARCON	STRENGTHENING EXIST BLDG	GRESIK	STRENGTHENING EXIST BLDG	...
077	ICCO	ARCON	FACTORY BUILDING	JAKARTA	2 SINGLE SPAN SOLID PORTAL	...
077	BRIDON POLKO	ARCON	FACTORY & OFFICE BLDG	JAKARTA	1 NO. ARCON PROPPED PORTAL	...
077	KARU BANDUNG	ARCON	LOW COST BUILDING	BANDUNG	TYPE 63C	...
077	TAU BANDUNG	ARCON	MARLEI SUEI	PANJUNG	SINGLE SPAN SOLID PORTAL	...
077	ETERNU GRESIK	E. GRESIK	TANK FOR FACTORY PLANT	GRESIK	TANK	...
077	CHWONG INDAH	ARCON	GODOWN	JAKARTA	SINGLE CLEAR SPAN PORTAL	1,000 M2
077	SANORITA	ARCON	SPINNING MILL	JAKARTA	MULTI PROPPED PORTAL	8,700 M2
077	MEDROPHAN DIA	ARCON	LOW COST HOUSING	JAKARTA	TYPE 63C	...
077	ETERNU GRESIK	ARCON	STRENGTHENING EXIST BLDG	GRESIK	STRENGTHENING EXIST BLDG	...
077	ICCO	ARCON	FACTORY BUILDING	JAKARTA	SINGLE SPAN SOLID PORTAL	...
077	BRIDON POLKO	ARCON	FACTORY & OFFICE BLDG	JAKARTA	1 NO. ARCON PROPPED PORTAL	...

*A GLOBAL STEEL FABRICATOR, RELIABLE IN QUALITY AND DELIVERY,  
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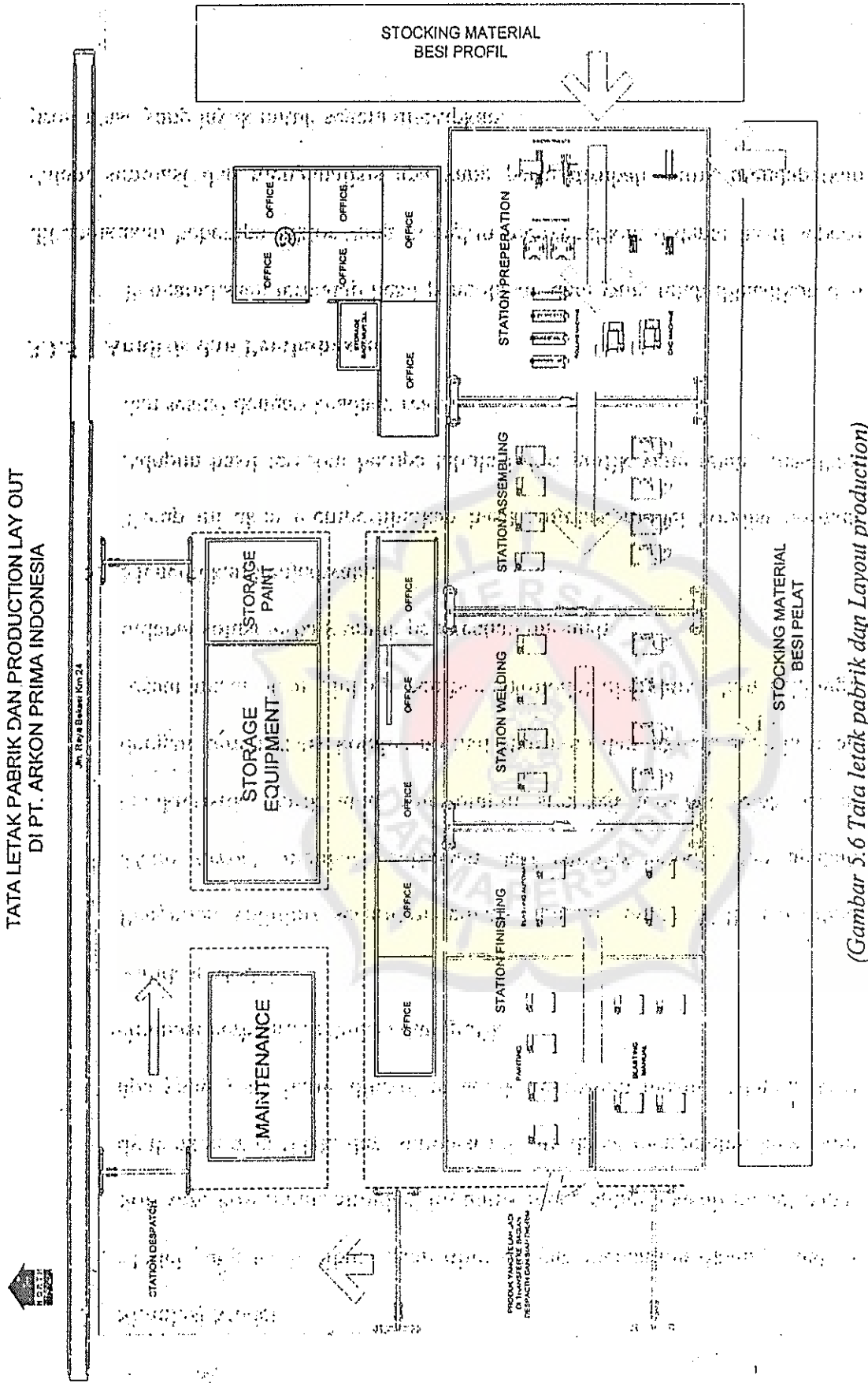


PLAN AT EL. 17.800

GENERAL NOTES : UNO ALL MARKS P. FIXED BY 10P-2302 ALL HIGH STRENGTH BOLTS SHALL BE SNAG TIGHTENING	2A	21 SEP 06	FE	MUST	RK	HW					
	1A	02 SEP 06	TA								
<table border="1"> <tr> <td>COL GR CODE</td> <td rowspan="2">SHEET</td> <td rowspan="2">CENTER</td> <td rowspan="2">RIGHT</td> </tr> <tr> <td>REV</td> <td>DATE</td> <td>DESCRIPTION</td> </tr> </table>	COL GR CODE	SHEET	CENTER	RIGHT	REV	DATE	DESCRIPTION	CLIENT	TANGGUH LNG	PROJECT	PT ARKON PRIMA INDONESIA
	COL GR CODE				SHEET	CENTER	RIGHT				
REV	DATE	DESCRIPTION									
<table border="1"> <tr> <td>DRAWING NO</td> <td>REV</td> </tr> <tr> <td>D-010-13360-054</td> <td>6A</td> </tr> <tr> <td>D-010-13360-053</td> <td>6A</td> </tr> </table>	DRAWING NO	REV	D-010-13360-054	6A	D-010-13360-053	6A	BUILDING	010-PLF-2302 PLATFORM	JOB NO	AP756	
	DRAWING NO	REV									
D-010-13360-054	6A										
D-010-13360-053	6A										
	TITLE	ERECTION PLAN	DWG NO	010-PLF-2302-EP-001							
	SCALE	NTS									

(Gambar 5.3 Erection Plan LNG Tongguh)

TATA LETAK PABRIK DAN PRODUCTION LAY OUT  
DI PT. ARKON PRIMA INDONESIA



(Gambar 5.6 Tata letak pabrik dan Layout production)

(Tabel 5.2. Checklist untuk Procurement)

CHECK LIST AUDIT INTERNAL KE : 7						
Prosedur : Pengendalian pembelian			Divisi / Departemen		: Procurement	
No : OP-PRC-001			Tanggal		: 25 Januari 2006 13.00 – 16.00	
Item yang diaudit			Evaluasi oleh Auditor			
Klausul	Pertanyaan	Klausul ISO - 9001	S	B	Keterangan	
4	Dokumen pendukung; Hanya ada wi-PRC-101 dan wi-PRC-102; wi-PRC-103-dan wi-PRC-104 ? Seleksi pemasok barang & jasa.				Yang ada dalam dokumen pendukung hanya: wi-PRC – 101- dan wi-PRC102 sedangkan wi-PRC-103 dan wi-PRC-104 tidak dimasukkan	
2.2	Mohon ditunjukkan daftar pemasok yang telah lulus seleksi?!				Untuk PO 19.306 tidak terdftar dalam daftar pemasok yang terseleksi.	
5.3.d	Material untuk Produksi dapat dibeli melalui pemasok terseleksi bila pemasok terseleksi tidak memiliki stock material yang diperlukan !				Saran ; Sebaiknya MR dari Engineering yang tidak ada dipasaran informasinya harus secara tertulis.	

Keterangan : S = Sudah Sesuai, B = Belum Sesuai

(Tabel 5.4 Laporan ketidak sesuaian untuk Despatch)

Catatan Audit Internal

Laporan Ketidak Sesuaian (LK)  
No.08-AI / XI - 2006/DSP/02

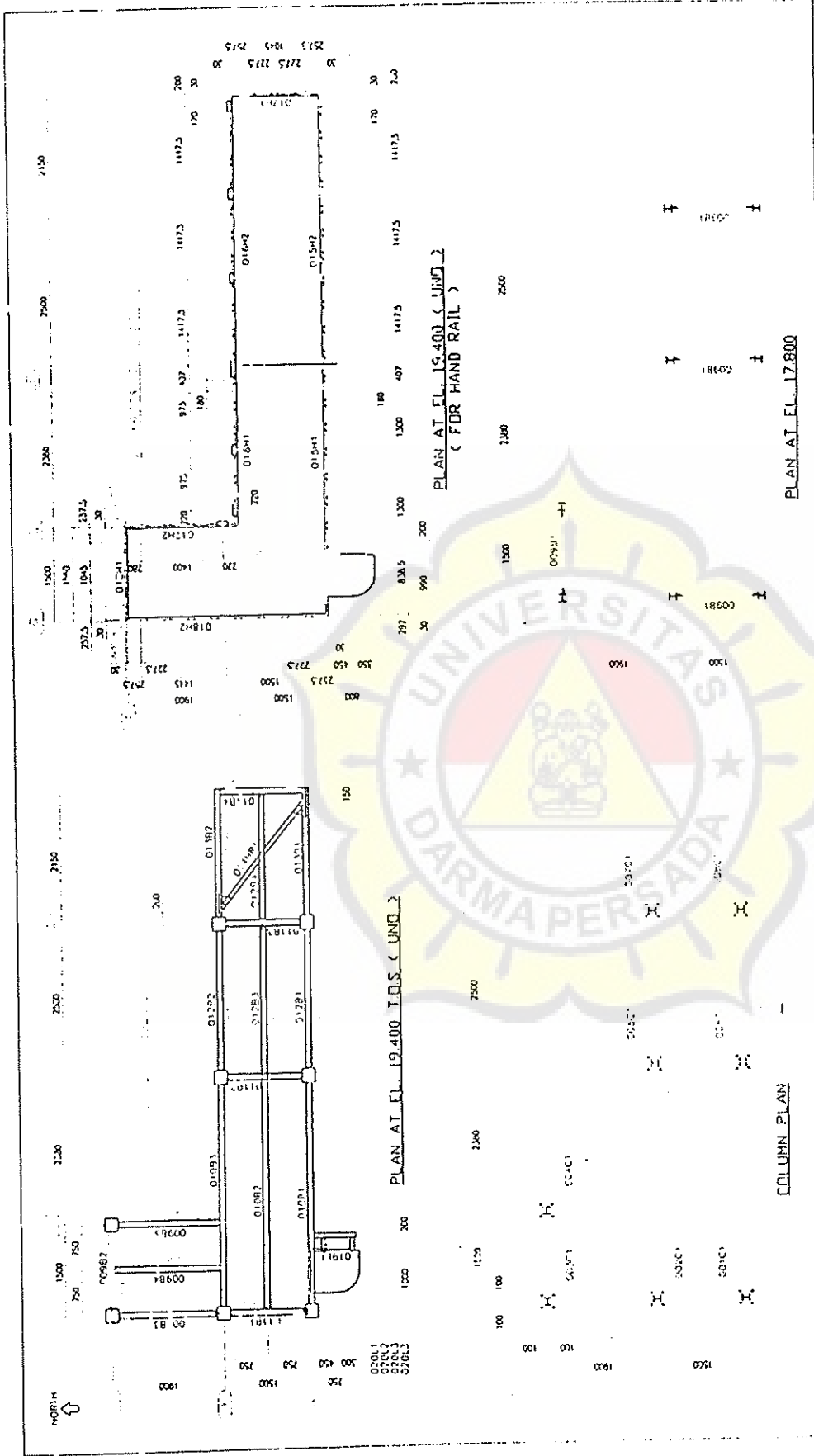
<input type="checkbox"/> Mayor Nonconformity	<input type="checkbox"/> Minor non conformity	<input type="checkbox"/> Observation
Divisi / Departemen : DESPATCH Prosedur no. : OP-DSP-001 Auditee : GDE. SM Tanggal : 16 NOP 2006 Auditor I <u>ACI</u> II <u>AT</u>		
Uraian Ketidak sesuaian / Permasalahan : <p style="text-align: center;"><u>Evaluasi sub kontraktor jasa angkutan belum dibuat</u></p>		
Tanda tangan Auditee :	Tanda tangan Auditor :	Tanda tangan Auditor II :
Hasil Penelitian Masalah :		
Rencana tindakan koreksi :	" Membuat Evaluasi Sub kontraktor jasa Angkutan "	
Tanggal jatuh tempo perbaikan :	30 - 11 - 06	Auditee : _____
Verifikasi dan Kesimpulannya :	Sudah dilakukan	
Tanggal : <u>12-12-06</u>	Auditor : _____	Auditee: _____

(Tabel 5.5 Laporan ketidak sesuaian untuk Despatch)

**Catatan Audit Internal**

Laporan Ketidak Sesuaian (LK)  
No.08-AI / XI – 2006/...../....

<input type="checkbox"/> Mayor Nonconformity	<input type="checkbox"/> Minor non conformity	<input type="checkbox"/> Observation
Divisi / Departemen : DESPATCH Prosedur no. : OP-DSP-001 Auditee : GDE. SM Tanggal : 16 NOP 2006		Auditor I <u>ACI</u> Auditor II <u>AT</u>
Uraian Ketidak sesuaian / Permasalahan :  <p style="text-align: center;"><i>Sasaran Mutu 2006 belum di buat</i></p>		
Tanda tangan Auditee :	Tanda tangan Auditor :	Tanda tangan Auditor II :
Hasil Penelitian Masalah :		
Rencana tindakan koreksi :	<i>" Membuat sasaran Mutu 2006 "</i>	
Tanggal jatuh tempo perbaikan :	<i>30 - 11 - 06</i>	Auditee : _____
Verifikasi dan Kesimpulannya :	<i>Sudah dilakukan</i>	
Tanggal : <u>12-12-06</u>	Auditor : _____	Auditee: _____



GENERAL NOTES : UNO.  
ALL MARKS P. FIXED BY IURA 2302  
ALL HIGH STRENGTH BOLTS SHALL BE SNUG TIGHTENING

REV	DATE	DESCRIPTION	CHKD	APPV
2A	21 SEP 06	FC	MUST	MU
1A	02 SEP 06	FA	CHKD	...

CLIENT	KJP	PI ARKON PRIMA INDONESIA
PROJECT	TANGGUH LNG	JOB NO AP756
BUILDING	010-PLF-2302 PLATFORM	SCALE NIS
TITLE	ERECTION PLAN	DWG NO 010-PLF-2302-EP-001

CDLP CODE	
LEFT	RIGHT
REV	REV
6A	6A
D-010-13360-054	6A
D-010-13360-053	REV
DRAWING NO	REV

REFERENCE DWG NO

(Gambar 5.3 Erection Plan LNG Tangguh)