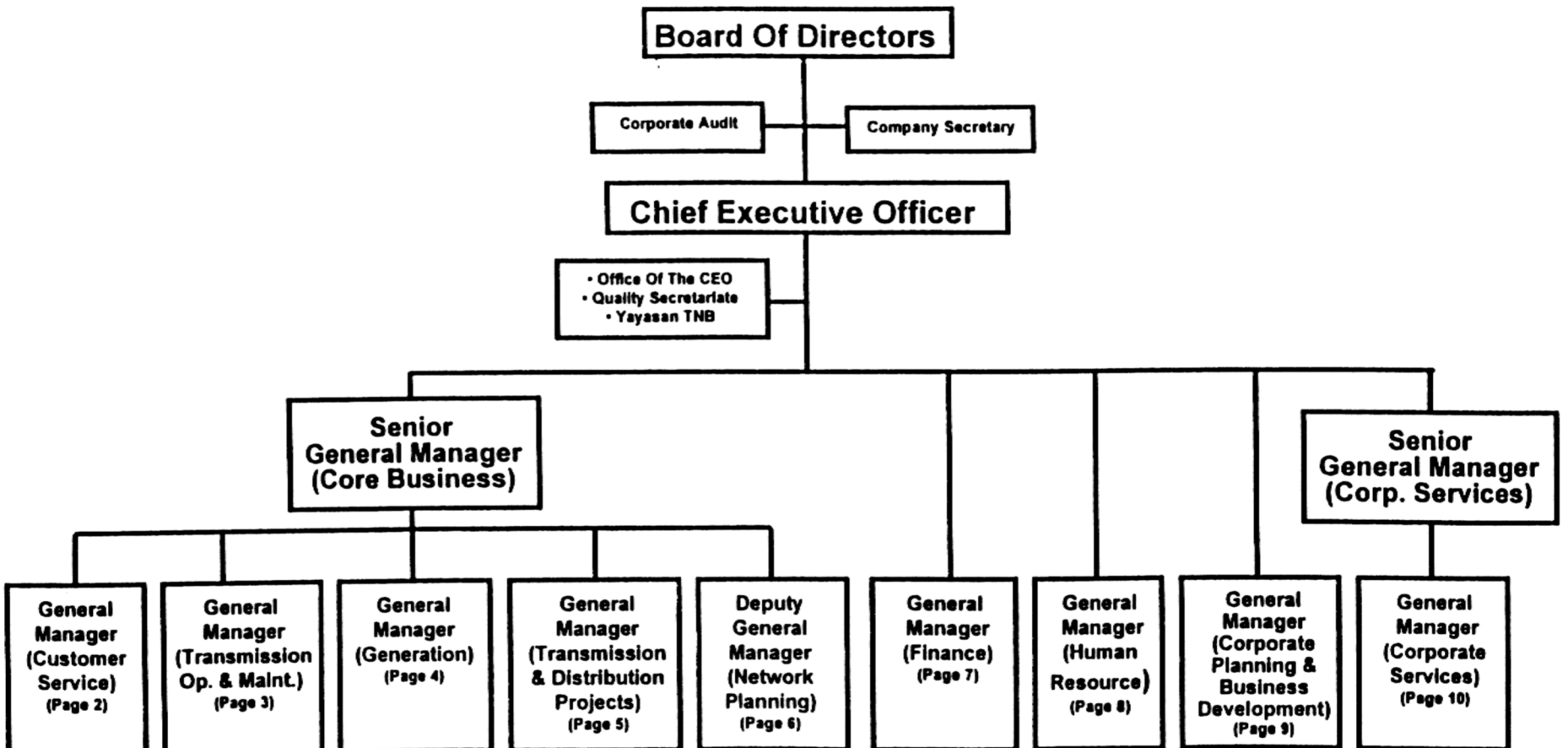
APPENDICES

a) Appendix A : Tenaga Nasional Berhad Organisation Structure
b) Appendix B : Transmission & Distribution Project Division Organisation Structure
c) Appendix C : Changes in Organisation of Transmission Project Department
d) Appendix D : List of Transmission & Distribution Projects
e) Appendix E : Sample Project Schedule using CPM Method (Source : Progress Report for Contract TNB 1138/96 - May 1996)
f) Appendix F : Activities Flow-Chart
g) Appendix G : Process Flow-Chart in Project Management

APPENDIX A

PERPUSTAKAAN UNIVERSITI MALAYA

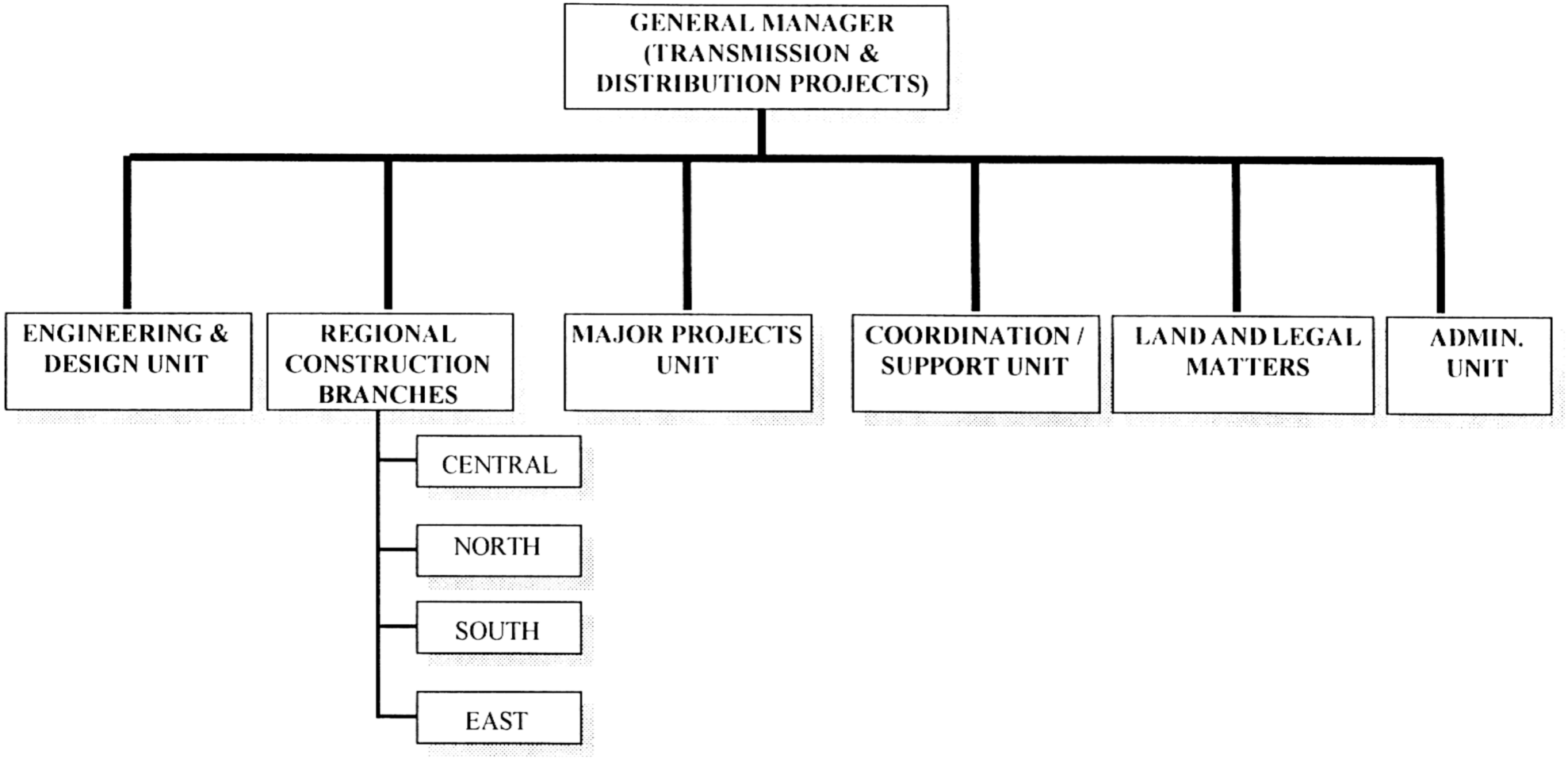
TNB's Functional Structure



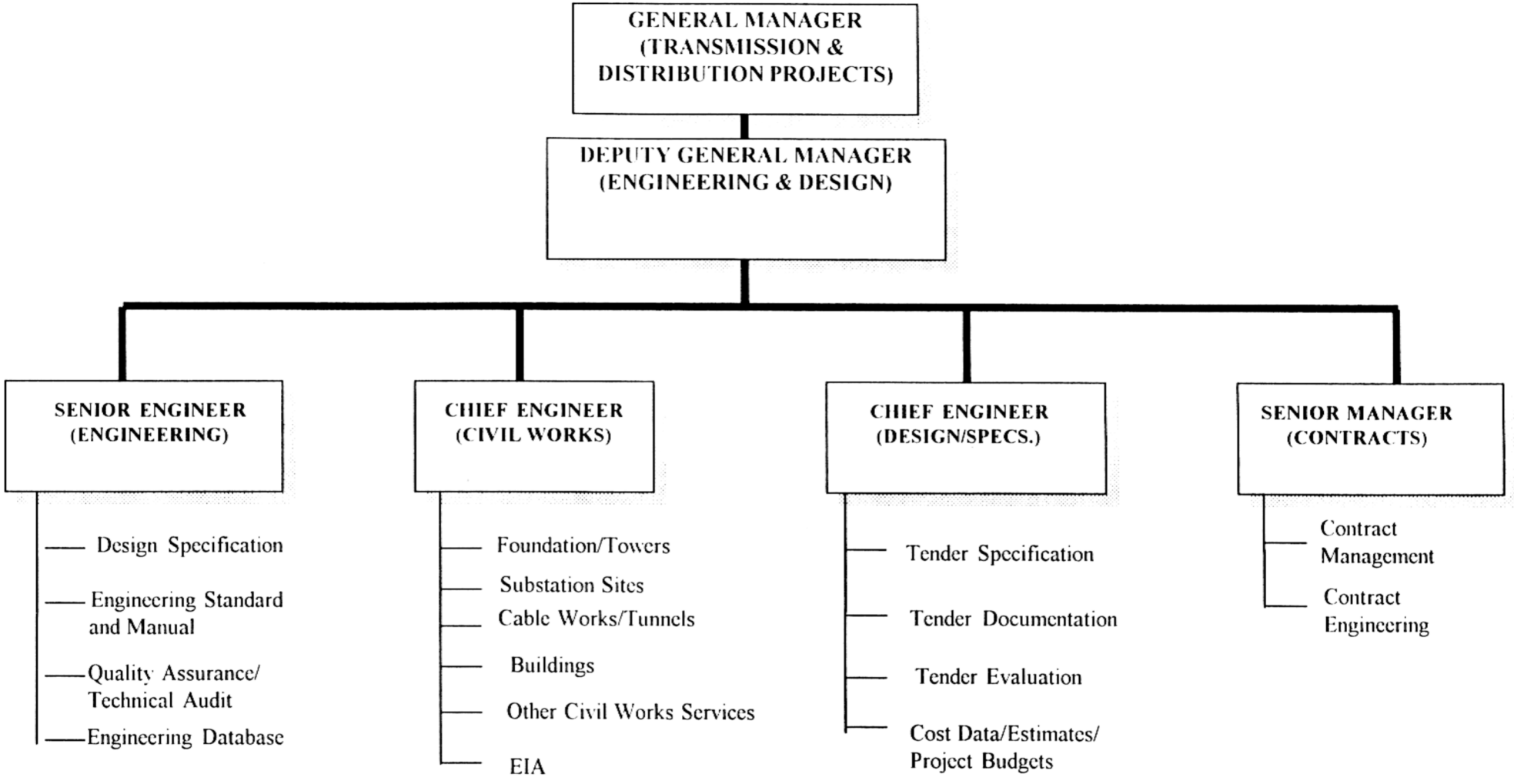
Source : http://www.tnb.com.my

APPENDIX B

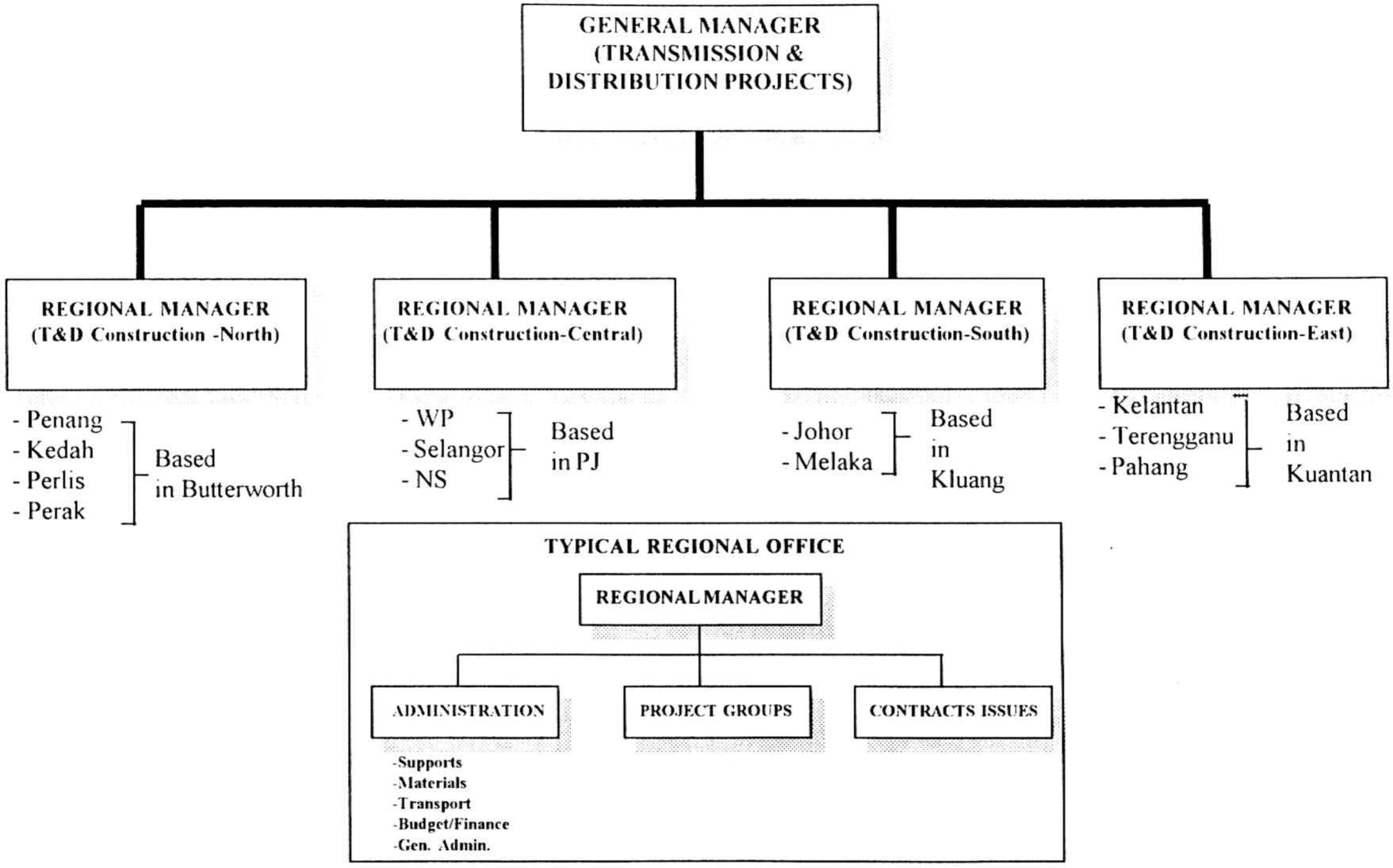
TRANSMISSION & DISTRIBUTION PROJECTS



Source : Transmission & Distribution Projects Division, TNB

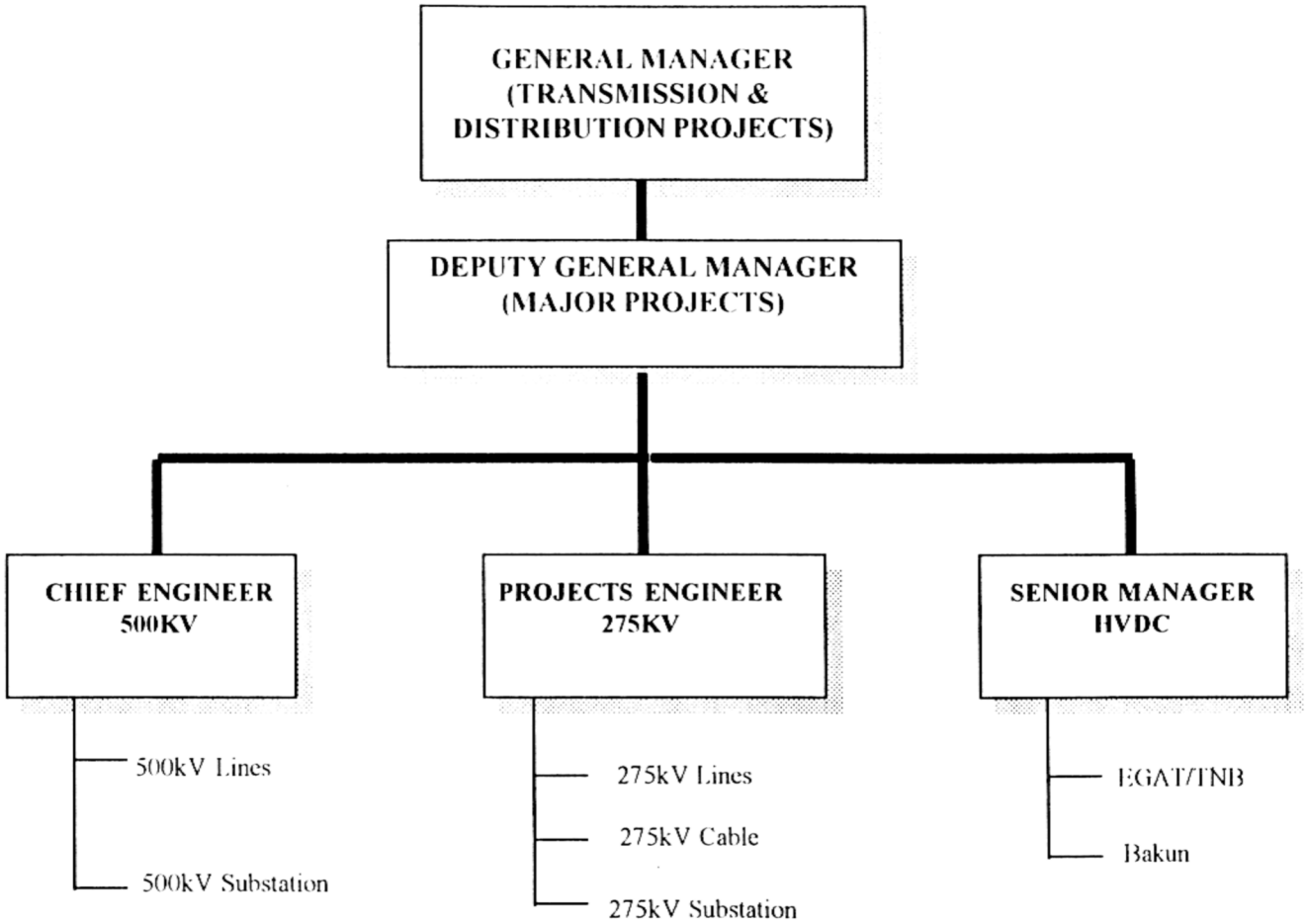


Source : Transmission & Distribution Projects Division, TNB

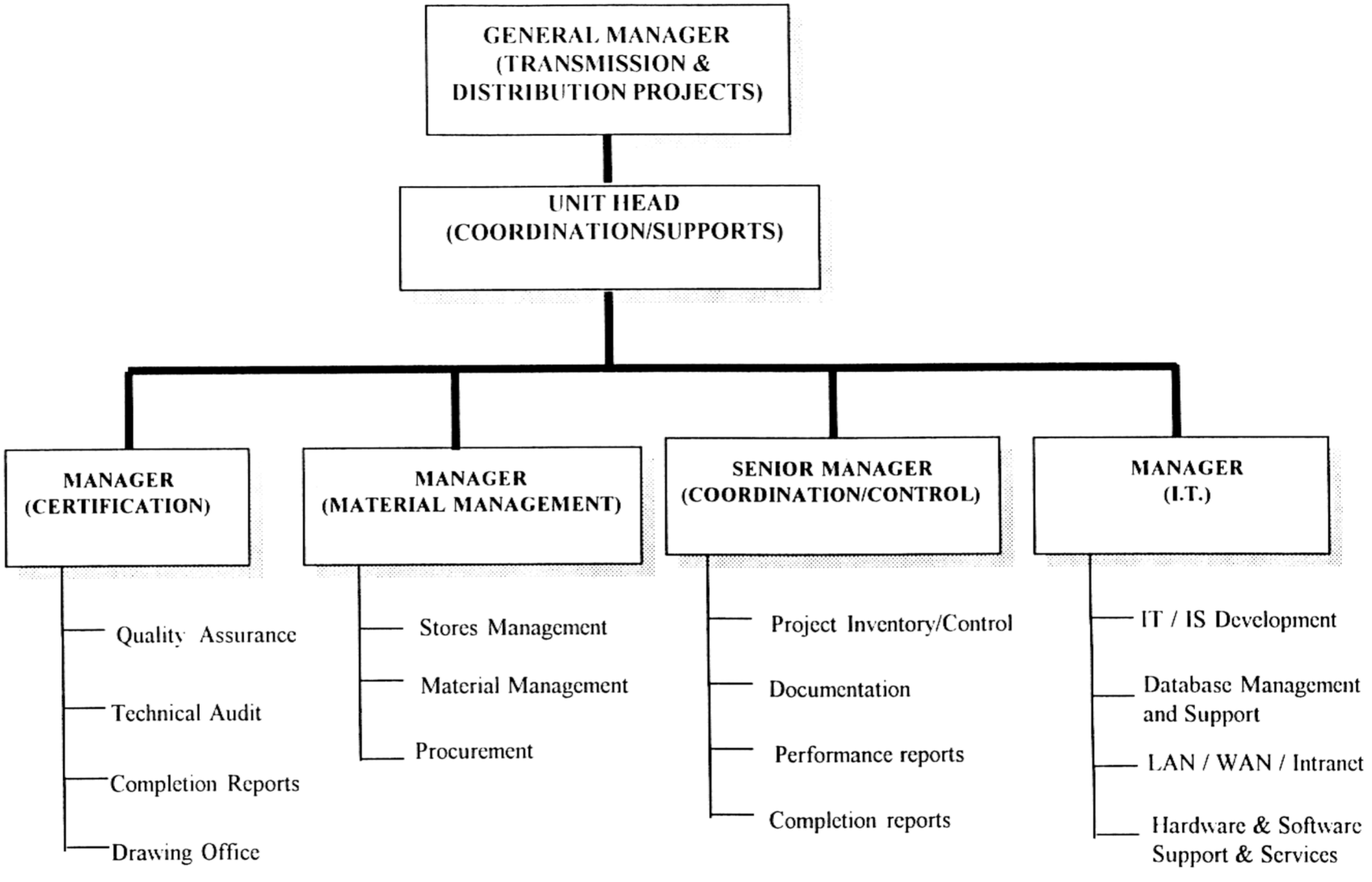


Source : Transmission & Distribution Projects Division, TNB

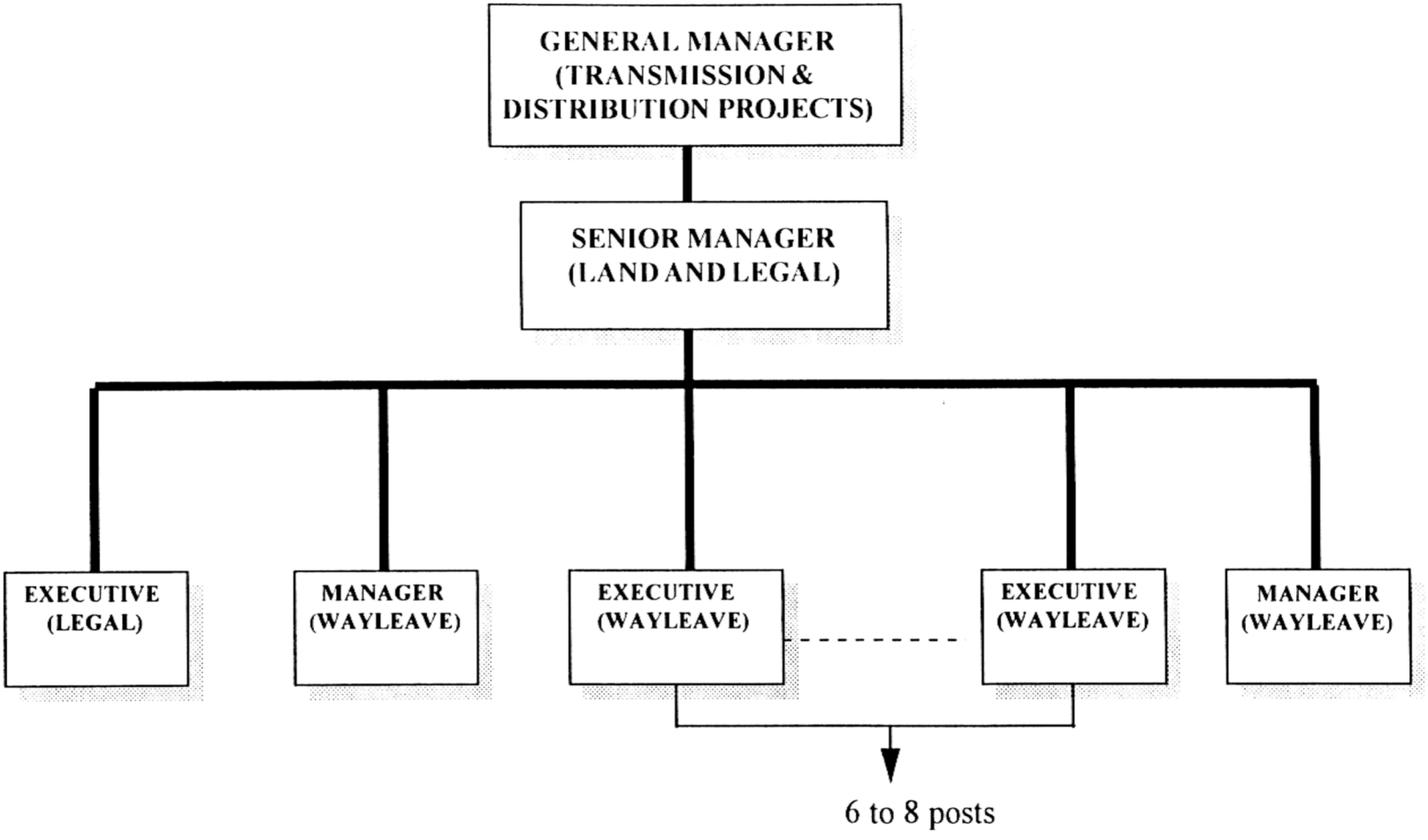
MAJOR PROJECTS



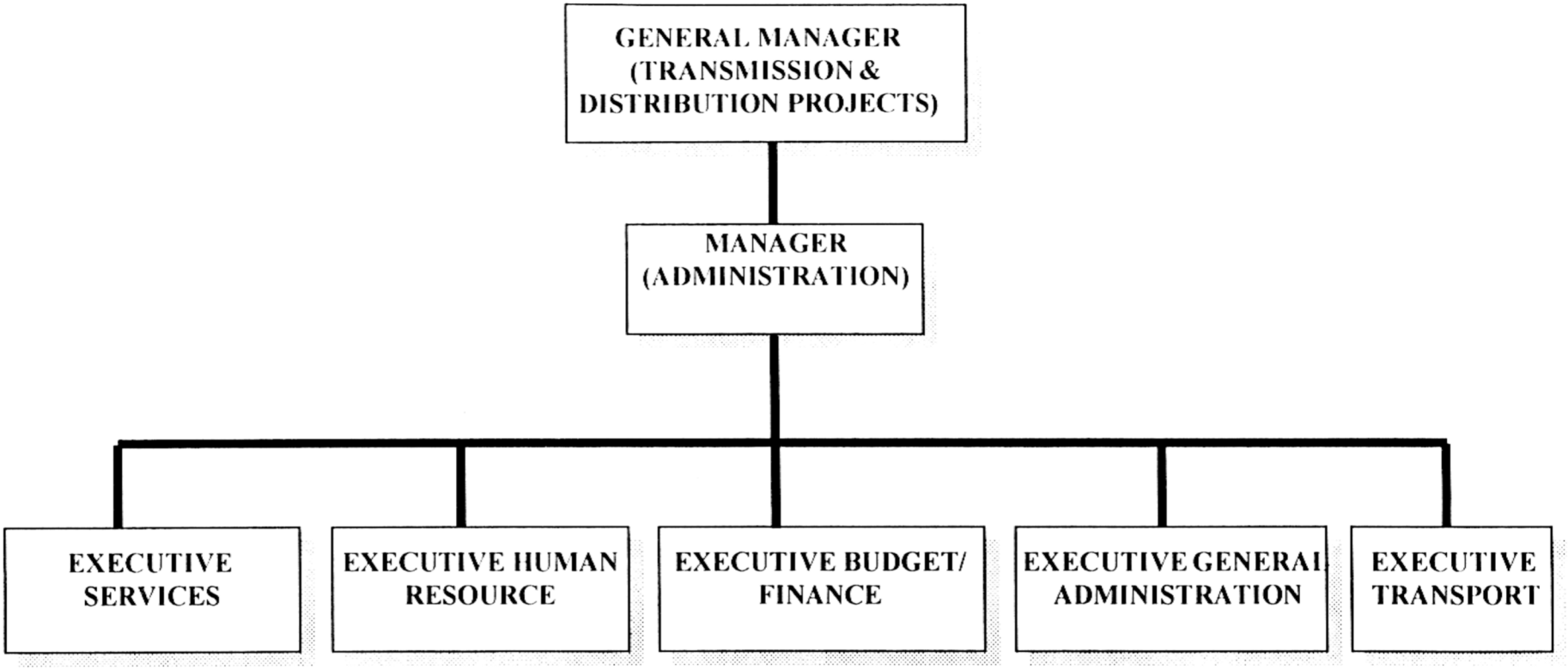
Source : Transmission & Distribution Projects Division, TNB



Source : Transmission & Distribution Projects Division, TNB



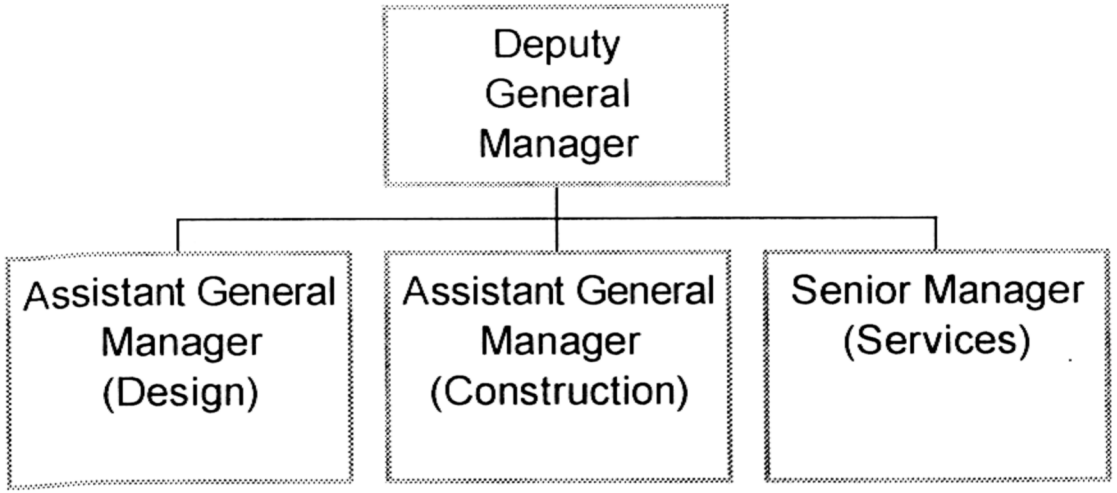
Source : Transmission & Distribution Projects Division, TNB



Source : Transmission & Distribution Projects Division, TNB

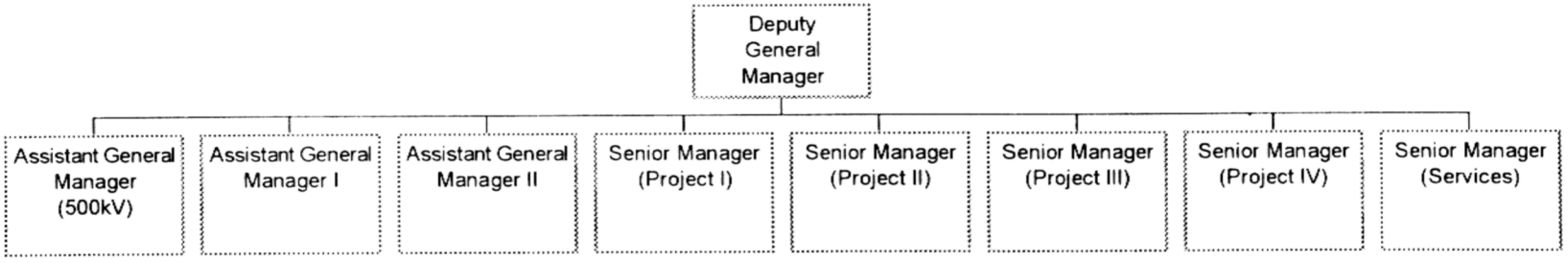
APPENDIX C

TRANSMISSION SYSTEM PROJECT
(December 1991)



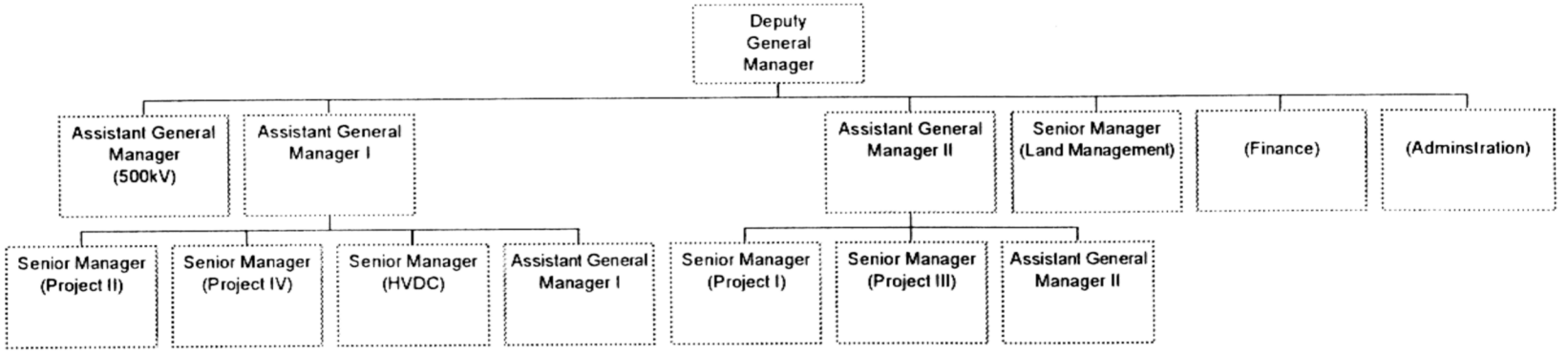
Source : Transmission & Distribution Projects Division, TNB

TRANSMISSION SYSTEM PROJECT
(March 1993)



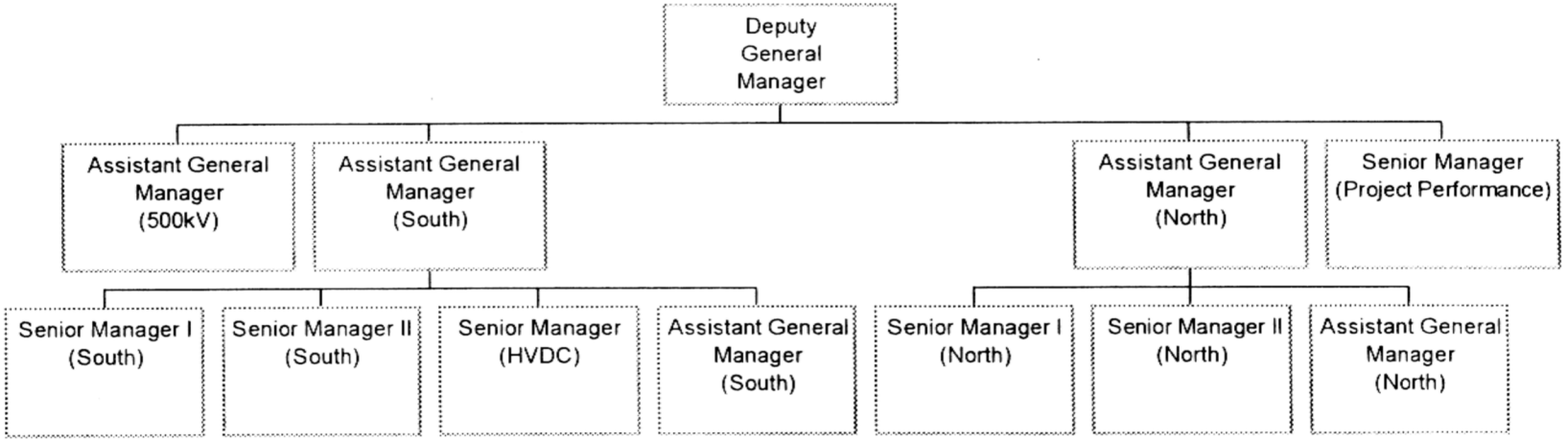
Source : Transmission & Distribution Projects Division, TNB

TRANSMISSION PROJECT
(August 1994)



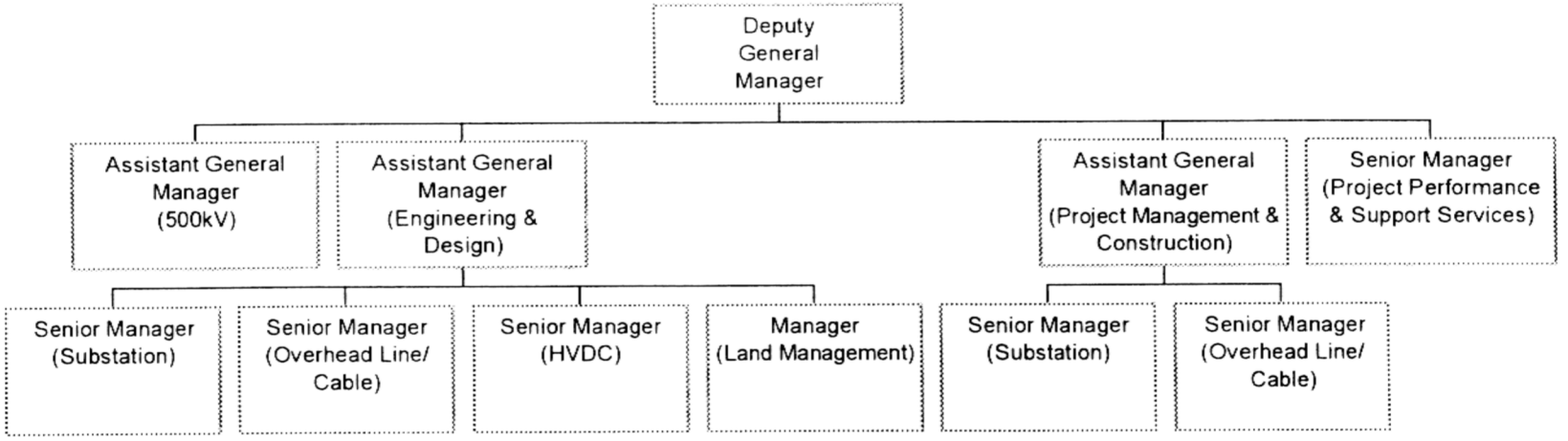
Source : Transmission & Distribution Projects Division, TNB

TRANSMISSION PROJECT
(October 1994)



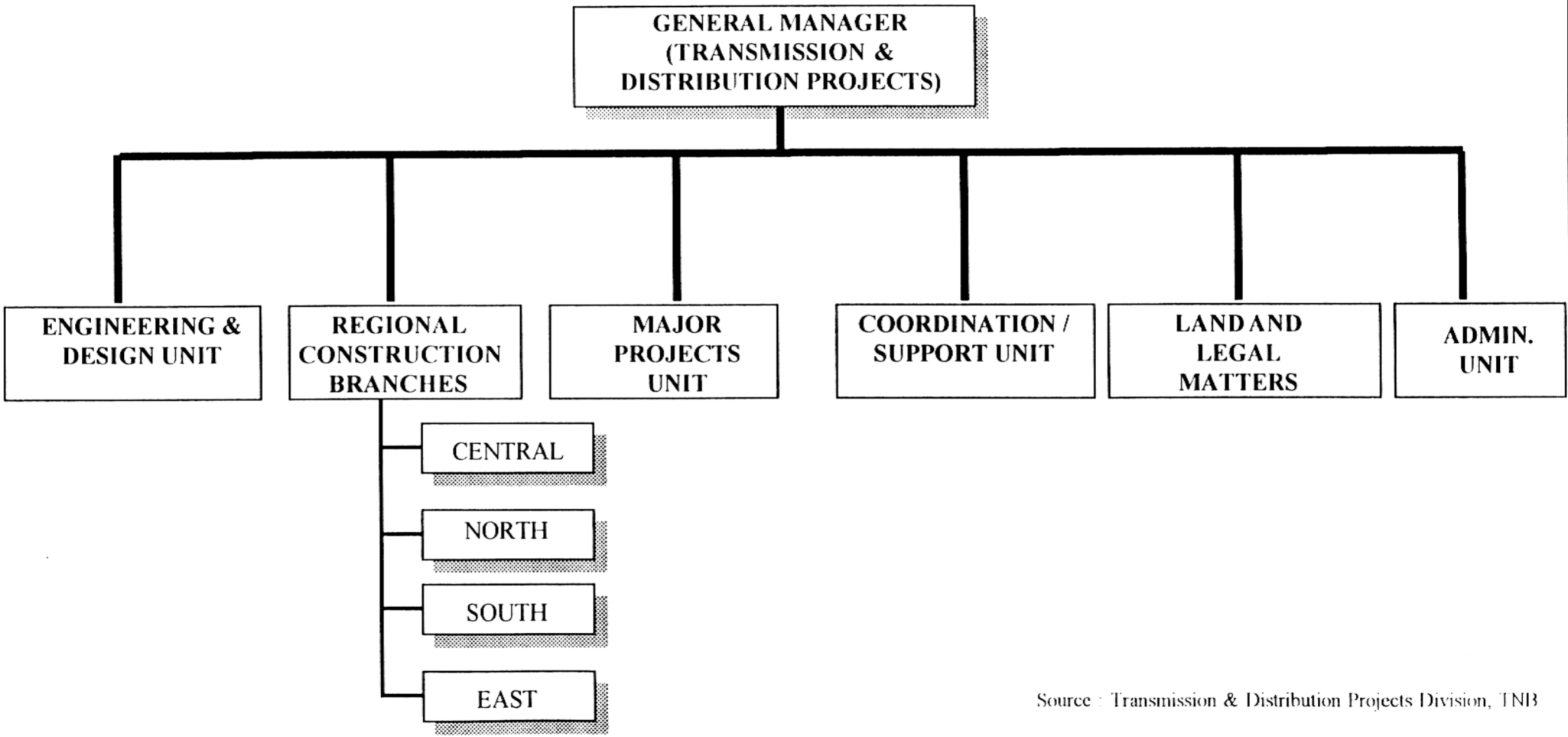
Source : Transmission & Distribution Projects Division, TNB

TRANSMISSION PROJECT
(September 1995)



Source : Transmission & Distribution Projects Division, TNB

(January 1997)



Source : Transmission & Distribution Projects Division, TNB

APPENDIX D

TRANSMISSION PROJECTS

A. SUBSTATION.

STATE	NO. OF PROJECTS (1996/97 - 1999/2000)	TOTAL BUDGET (RM MILLION)
PERLIS	5	52.28
KEDAH	26	554.17
PENANG	19	741.74
PERAK	13	360.42
SELANGOR	70	2,176.62
WILAYAH PERSEKUTUAN KUALA LUMPUR	19	1,075.24
NEGERI SEMBILAN	24	408.23
MELAKA	13	265.90
JOHOR	39	864.22
PAHANG	27	388.24
TERENGGANU	11	209.18
KELANTAN	7	151.06

Source : Transmission & Distribution Projects Division, TNB

TRANSMISSION PROJECTS

B. CABLE.

STATE	*NO. OF PROJECTS (1996/97 - 1999/2000)*	*TOTAL BUDGET (RM MILLION)*
PERLIS	*1*	*168.78*
KEDAH	*4*	*19.14*
PENANG	*9*	*589.34*
PERAK	*1*	*9.05*
SELANGOR	*3*	*15.37*
WILAYAH PERSEKUTUAN KUALA LUMPUR	*22*	*472.70*
NEGERI SEMBILAN	*2*	*4.36*
MELAKA	*2*	*13.05*
JOHOR	*7*	*90.35*
PAHANG	*2*	*49.07*
TERENGGANU	-	-
KELANTAN	-	-

Source : Transmission & Distribution Projects Division, TNB

DISTRIBUTION PROJECTS

A. SUBSTATION

STATE	NO. OF PROJECTS (1996/97 - 1997/98)	TOTAL BUDGET (RM MILLION)
PERLIS	4	15.74
KEDAH	62	212.50
PENANG	36	157.77
PERAK	34	125.22
SELANGOR	63	448.61
WILAYAH PERSEKUTUAN KUALA LUMPUR	37	262.83
NEGERI SEMBILAN	-	-
MELAKA	-	-
JOHOR	27	92.80
PAHANG	8	27,42
TERENGGANU	8	22.80
KELANTAN	4	5.47

Source : Transmission & Distribution Projects Division, TNB

DISTRIBUTION PROJECTS

B. CABLE.

STATE	*NO. OF PROJECTS (1996/97 - 1997/98)*	*TOTAL BUDGET (RM MILLION)*
PERLIS	*2*	*3.50*
KEDAH	*42*	*93.95*
PENANG	*41*	*110.01*
PERAK	*11*	*15.79*
SELANGOR	*89*	*373.08*
WILAYAH PERSEKUTUAN KUALA LUMPUR	*48*	*180.92*
NEGERI SEMBILAN	*-*	*-*
MELAKA	*-*	*-*
JOHOR	*23*	*37.32*
PAHANG	*3*	*6.00*
TERENGGANU	*2*	*3.00*
KELANTAN	*2*	*19.57*

Source : Transmission & Distribution Projects Division, TNB

DISTRIBUTION PROJECTS

C. OVERHEAD LINES

STATE	NO. OF PROJECTS (1996/97 - 1997/98)	TOTAL BUDGET (RM MILLION)
PERLIS	7	9.75
KEDAH	5	13.40
PENANG	-	-
PERAK	5	9.91
SELANGOR	7	12.66
WILAYAH PERSEKUTUAN KUALA LUMPUR	-	-
NEGERI SEMBILAN	-	-
MELAKA	-	-
JOHOR	6	70.74
PAHANG	2	8.40
TERENGGANU	4	13.28
KELANTAN	13	33.77

Source : Transmission & Distribution Projects Division, TNB

SUMMARY

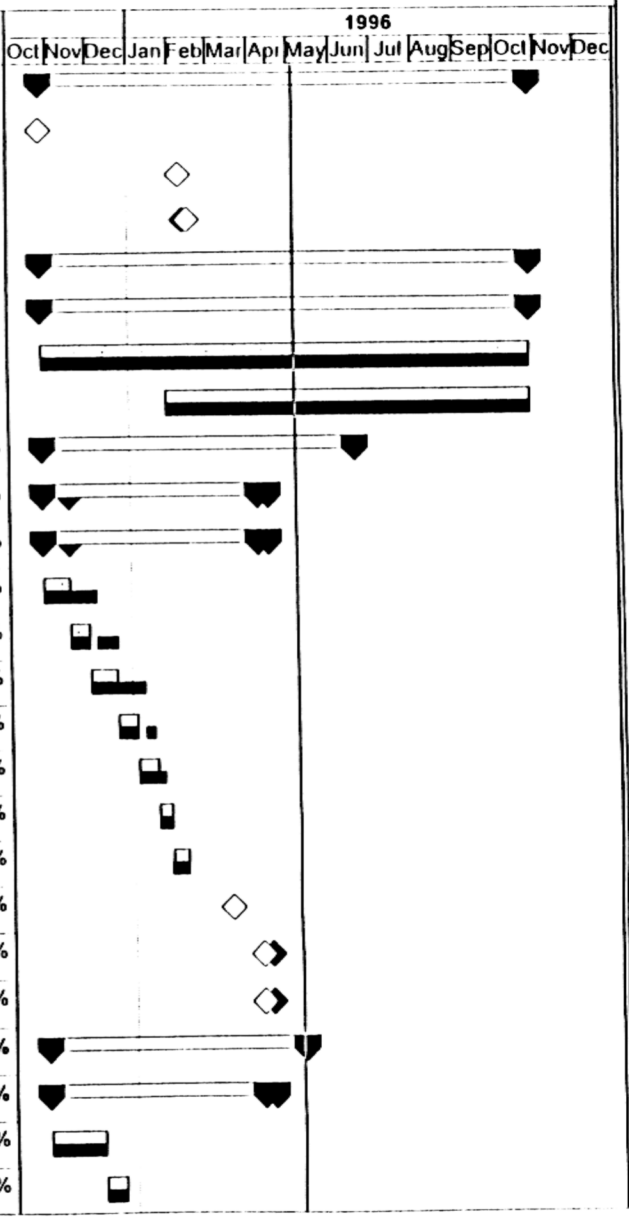
SUMMARY	*SUBSTATION (MILLION)*	*CABLE (MILLION)*	*OVERHEAD (MILLION)*
TRANSMISSION (1996/97 - 1999/2000)	*RM 7,096.24 (273)*	*RM 1,431.21 (53)*	*RM 2341.80 (188)*
DISTRIBUTION (1996/97 - 1997 /98)	*RM 1,371.16 (283)*	*RM 843.13 (263)*	*RM 653.12 (44)*

Source : Transmission & Distribution Projects Division, TNB

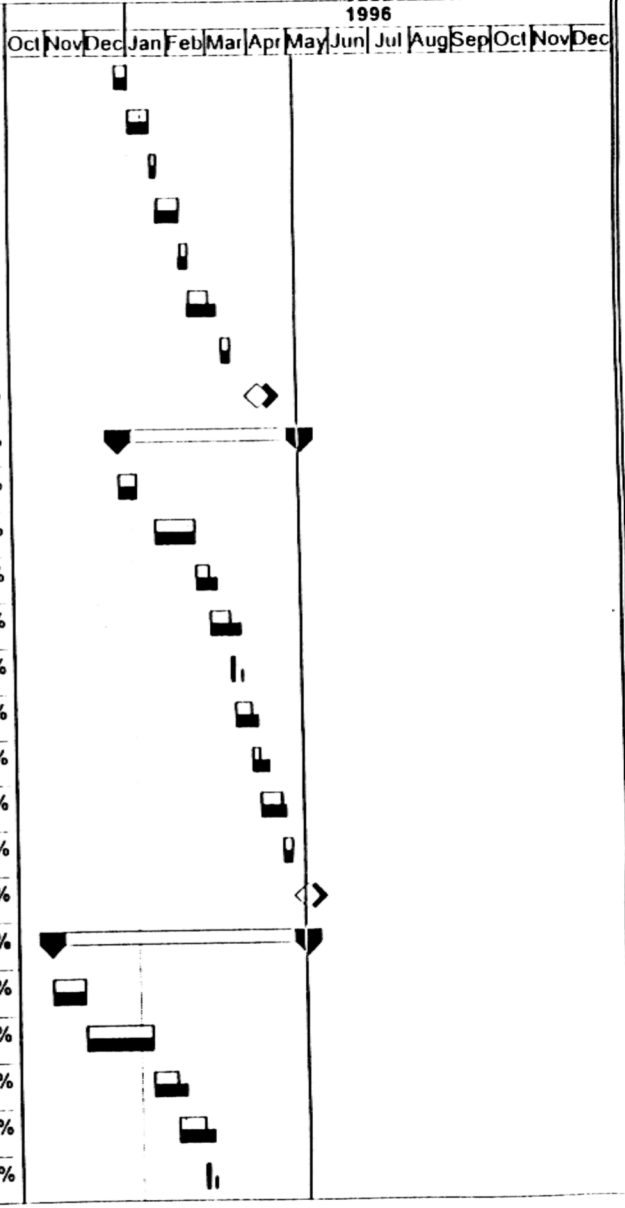
PERPUSTAKAAN UNIVERSITI MALAYA

APPENDIX E

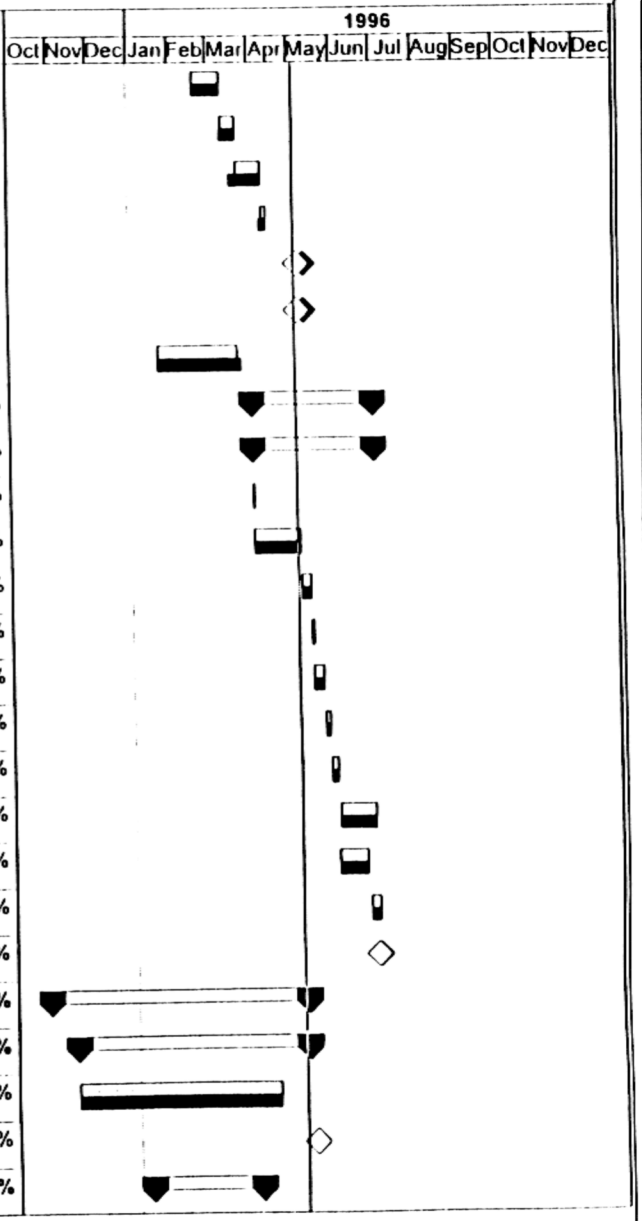
ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
1	**275 KV PINANG SUBMARINE CABLE PROJECT**	**367d**	**27 Oct '95**	**27 Oct '96**	**195.53d**	**27 Oct '95**	**NA**	**48%**
2	Coming into force of the contract	0d	27 Oct '95	27 Oct '95	0d	27 Oct '95	27 Oct '95	100%
3	Subcontract Agreement	0d	09 Feb '96	09 Feb '96	0d	09 Feb '96	09 Feb '96	100%
4	Advance payment invoice	0d	15 Feb '96	15 Feb '96	0d	12 Feb '96	12 Feb '96	100%
5	**Project Management**	**367d**	**27 Oct '95**	**27 Oct '96**	**156.89d**	**27 Oct '95**	**NA**	**43%**
6	**Project Management activities**	**367d**	**27 Oct '95**	**27 Oct '96**	**156.89d**	**27 Oct '95**	**NA**	**43%**
7	**KL Office**	367d	27 Oct '95	27 Oct '96	183.5d	27 Oct '95	NA	50%
8	**Site Office Penang**	273d	29 Jan '96	27 Oct '96	90.09d	29 Jan '96	NA	33%
9	**Supply F.O.B.**	**235d**	**27 Oct '95**	**17 Jun '96**	**204.18d**	**27 Oct '95**	**NA**	**82%**
10	**Fiber Optic Cables**	**162d**	**27 Oct '95**	**06 Apr '96**	**150d**	**16 Nov '95**	**13 Apr '96**	**100%**
11	**Fiber optic cable and spare length A.F.**	**162d**	**27 Oct '95**	**06 Apr '96**	**150d**	**16 Nov '95**	**13 Apr '96**	**100%**
12	Slotted core	20d	27 Oct '95	15 Nov '95	20d	16 Nov '95	05 Dec '95	100%
13	Fibre Colouring	15d	16 Nov '95	30 Nov '95	16d	06 Dec '95	21 Dec '95	100%
14	Fibre cabling	20d	01 Dec '95	20 Dec '95	20d	22 Dec '95	10 Jan '96	100%
15	Optical core jacket	15d	21 Dec '95	04 Jan '96	7d	11 Jan '96	17 Jan '96	100%
16	Composite conductor	15d	05 Jan '96	19 Jan '96	7d	18 Jan '96	24 Jan '96	100%
17	Insulation	10d	20 Jan '96	29 Jan '96	3d	24 Jan '96	26 Jan '96	100%
18	Armouring	12d	30 Jan '96	10 Feb '96	12d	29 Jan '96	09 Feb '96	100%
19	Drums procurement	14d	15 Mar '96	15 Mar '96	14d	15 Mar '96	28 Mar '96	100%
20	PART IA-2 Invoicing (1st shipm)	1d	06 Apr '96	06 Apr '96	1d	13 Apr '96	13 Apr '96	100%
21	PART IB-2 Invoicing - Spare (1st shipm)	1d	06 Apr '96	06 Apr '96	1d	13 Apr '96	13 Apr '96	100%
22	**Power Cables**	**193d**	**27 Oct '95**	**07 May '96**	**198d**	**27 Oct '95**	**NA**	**100%**
23	**Cable lenghts: n. 1&2 Arco Felice**	**162d**	**27 Oct '95**	**06 Apr '96**	**170d**	**27 Oct '95**	**13 Apr '96**	**100%**
24	Stranding	41d	27 Oct '95	06 Dec '95	41d	27 Oct '95	06 Dec '95	100%
25	Lapping	16d	07 Dec '95	22 Dec '95	16d	07 Dec '95	22 Dec '95	100%



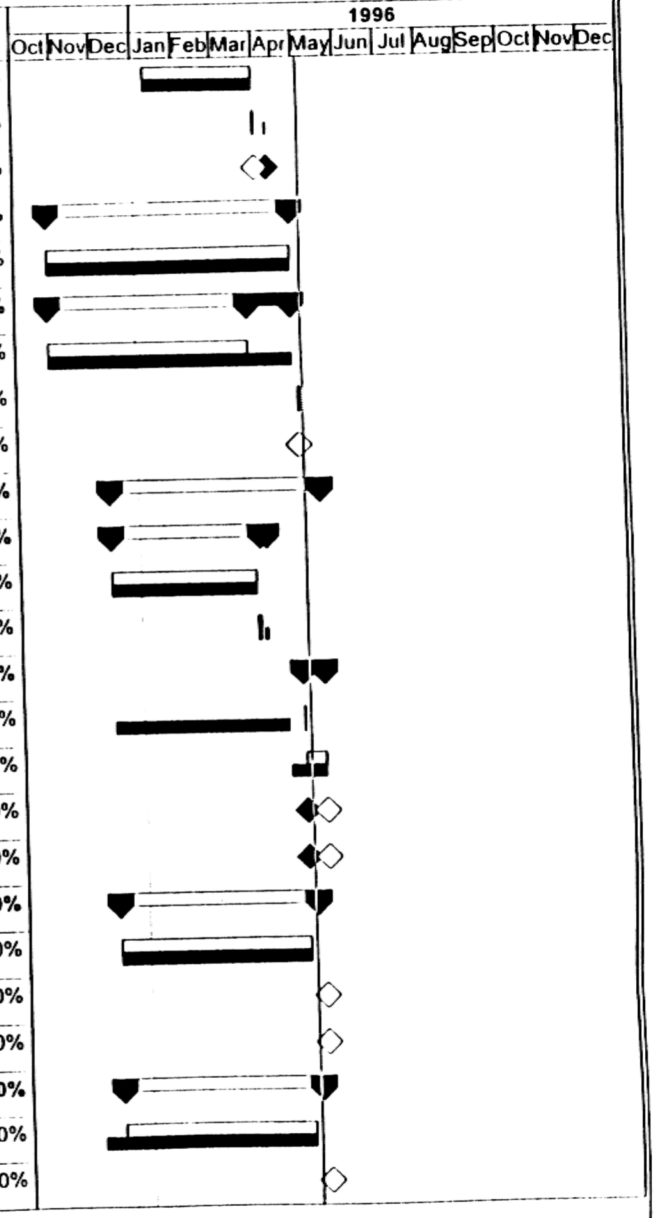
ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
26	Dry-impregnation	10d	23 Dec '95	01 Jan '96	10d	23 Dec '95	01 Jan '96	100%
27	Pb sheath	16d	02 Jan '96	17 Jan '96	16d	02 Jan '96	17 Jan '96	100%
28	Transfer	5d	18 Jan '96	22 Jan '96	4d	18 Jan '96	21 Jan '96	100%
29	Reinforcement	17d	23 Jan '96	08 Feb '96	17d	22 Jan '96	07 Feb '96	100%
30	Pe sheath	6d	09 Feb '96	14 Feb '96	6d	08 Feb '96	13 Feb '96	100%
31	Armouring	15d	15 Feb '96	29 Feb '96	22d	14 Feb '96	06 Mar '96	100%
32	Routine Test	7d	10 Mar '96	16 Mar '96	6d	10 Mar '96	15 Mar '96	100%
33	PART IA-1a Invoicing (1st Shipm)	1d	06 Apr '96	06 Apr '96	1d	13 Apr '96	13 Apr '96	100%
34	**Cable lenghts no. 5&6 Arco Felice**	**137d**	**22 Dec '95**	**07 May '96**	**142d**	**22 Dec '95**	**NA**	**100%**
35	Stranding	14d	22 Dec '95	04 Jan '96	14d	22 Dec '95	04 Jan '96	100%
36	Lapping	30d	18 Jan '96	16 Feb '96	30d	18 Jan '96	16 Feb '96	100%
37	Dry-impregnation	10d	17 Feb '96	26 Feb '96	16d	17 Feb '96	03 Mar '96	100%
38	Pb sheath	15d	27 Feb '96	12 Mar '96	17d	04 Mar '96	20 Mar '96	100%
39	Transfer	3d	13 Mar '96	15 Mar '96	1d	21 Mar '96	21 Mar '96	100%
40	Reinforcement	12d	16 Mar '96	27 Mar '96	11d	22 Mar '96	01 Apr '96	100%
41	Pe sheath	6d	28 Mar '96	02 Apr '96	8d	02 Apr '96	09 Apr '96	100%
42	Armouring	16d	03 Apr '96	18 Apr '96	12d	10 Apr '96	21 Apr '96	100%
43	Routine Test	7d	19 Apr '96	25 Apr '96	4d	22 Apr '96	25 Apr '96	100%
44	PART IA-1c Invoicing (2nd shipm)	0d	07 May '96	07 May '96	0d	NA	NA	0%
45	**Cables 3&4 + spare length Southampton**	**193d**	**27 Oct '95**	**07 May '96**	**198d**	**27 Oct '95**	**NA**	**100%**
46	Stranding	25d	27 Oct '95	20 Nov '95	25d	27 Oct '95	20 Nov '95	100%
47	Lapping	50d	21 Nov '95	09 Jan '96	50d	21 Nov '95	09 Jan '96	100%
48	Dry-impregnation	18d	10 Jan '96	27 Jan '96	24d	11 Jan '96	03 Feb '96	100%
49	Pb sheath	20d	28 Jan '96	16 Feb '96	20d	04 Feb '96	23 Feb '96	100%
50	Transfer	3d	17 Feb '96	19 Feb '96	1d	24 Feb '96	24 Feb '96	100%



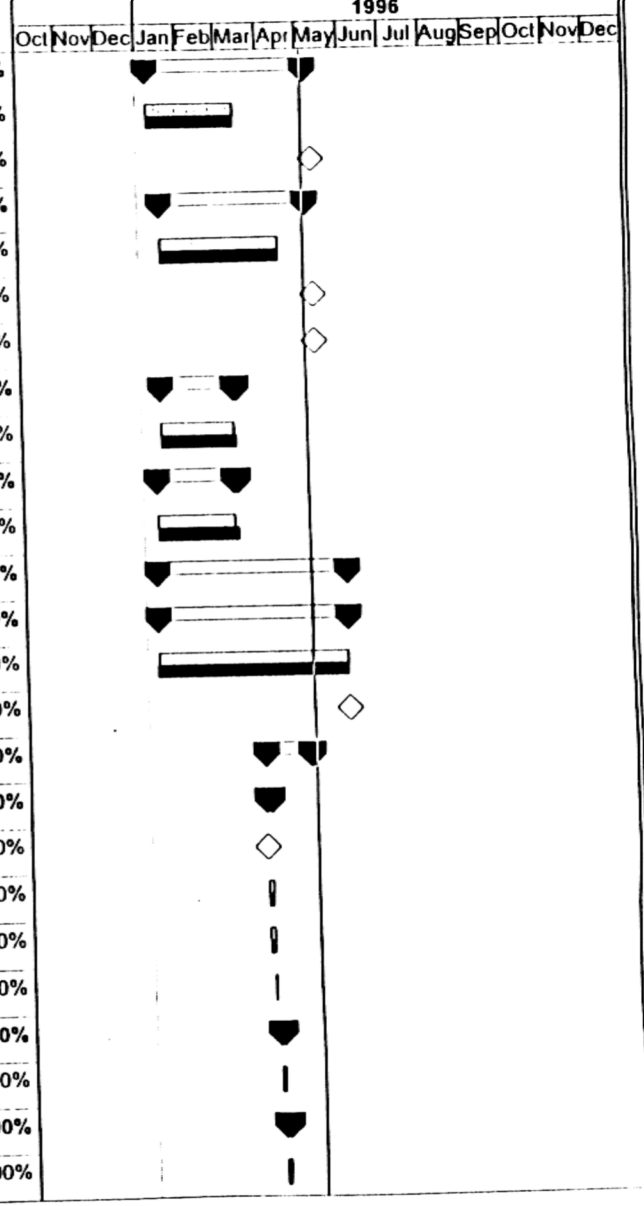
ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
51	Reinforcement	21d	20 Feb '96	11 Mar '96	12d	25 Feb '96	07 Mar '96	100%
52	Pe sheath	11d	12 Mar '96	22 Mar '96	7d	11 Mar '96	17 Mar '96	100%
53	Armouring	19d	23 Mar '96	10 Apr '96	18d	18 Mar '96	04 Apr '96	100%
54	Routine Test	4d	11 Apr '96	14 Apr '96	3d	09 Apr '96	11 Apr '96	100%
55	PART IA-1b Invoicing (2nd Shipm)	0d	07 May '96	07 May '96	0d	NA	NA	0%
56	PART IB-1 Invoicing - Spare (2nd shipm	0d	07 May '96	07 May '96	0d	NA	NA	0%
57	Spare lenght's Drum procurement	60d	23 Jan '96	22 Mar '96	63d	23 Jan '96	25 Mar '96	100%
58	**Type test**	**90d**	**02 Apr '96**	**30 Jun '96**	**16.55d**	**02 Apr '96**	**NA**	**18%**
59	**Type test activities**	**90d**	**02 Apr '96**	**30 Jun '96**	**16.55d**	**02 Apr '96**	**NA**	**18%**
60	Coiling test on cable	1d	02 Apr '96	02 Apr '96	1d	02 Apr '96	02 Apr '96	100%
61	Erection FRJ1 FRJ2	30d	02 Apr '96	06 May '96	20.7d	02 Apr '96	NA	69%
62	Coiling test with FRJ1 FRJ2	2d	07 May '96	13 May '96	0d	NA	NA	0%
63	Sampling and visual inspection	2d	14 May '96	15 May '96	0d	NA	NA	0%
64	Erection FRJ3	13d	15 May '96	22 May '96	0d	NA	NA	0%
65	FRJ2 FRJ3 transfer to Milan	8d	23 May '96	26 May '96	0d	NA	NA	0%
66	FRJ2 bending under tension	5d	27 May '96	31 May '96	0d	NA	NA	0%
67	Tensile & ext , internal pressure test	29d	02 Jun '96	28 Jun '96	0d	NA	NA	0%
68	Electrical test assembling	21d	01 Jun '96	21 Jun '96	0d	NA	NA	0%
69	Final visual inspection	7d	24 Jun '96	30 Jun '96	0d	NA	NA	0%
70	PART IC-3 Invoicing	0d	30 Jun '96	30 Jun '96	0d	NA	NA	0%
71	**Oil feeding system**	**198d**	**27 Oct '95**	**07 May '96**	**197.07d**	**27 Oct '95**	**NA**	**99%**
72	**Oil tanks c/w manometers**	**173d**	**16 Nov '95**	**07 May '96**	**178d**	**16 Nov '95**	**NA**	**100%**
73	Procurement and manufacturing	152d	16 Nov '95	15 Apr '96	152d	16 Nov '95	15 Apr '96	100%
74	PART IB-5 Invoicing (2nd shipm.)	0d	12 May '96	12 May '96	0d	NA	NA	0%
75	**Cable Oil Feeding**	**83d**	**10 Jan '96**	**01 Apr '96**	**92d**	**10 Jan '96**	**NA**	**100%**



ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
76	Procurement and manufacturing	82d	10 Jan '96	31 Mar '96	73d	10 Jan '96	22 Mar '96	100%
77	Delivery at Barcelona Port	1d	01 Apr '96	01 Apr '96	1d	10 Apr '96	10 Apr '96	100%
78	PART IB-6 Invoicing (4th shipm)	0d	01 Apr '96	01 Apr '96	0d	NA	NA	0%
79	**Pirelli Jerome pumping plant**	**184d**	**27 Oct '95**	**27 Apr '96**	**184d**	**27 Oct '95**	**27 Apr '96**	**100%**
80	Procurement & Manufacturing	184d	27 Oct '95	27 Apr '96	184d	27 Oct '95	27 Apr '96	100%
81	**Pirelli Jerome crossover**	**151d**	**27 Oct '95**	**25 Mar '96**	**184d**	**27 Oct '95**	**27 Apr '96**	**100%**
82	Procurement & Manufacturing	151d	27 Oct '95	25 Mar '96	184d	27 Oct '95	27 Apr '96	100%
83	Delivery at Charleston Port (U S A)	2d	01 May '96	02 May '96	0d	NA	NA	0%
84	PART IA-8 Invoicing (3rd ship)	0d	02 May '96	02 May '96	0d	NA	NA	0%
85	**Accessories**	**158d**	**10 Dec '95**	**15 May '96**	**169d**	**25 Nov '95**	**NA**	**100%**
86	**Outdoor S/E: Miscellaneous**	**112d**	**10 Dec '95**	**30 Mar '96**	**117d**	**10 Dec '95**	**04 Apr '96**	**100%**
87	Procurement and manufacturing	109d	10 Dec '95	27 Mar '96	90d	10 Dec '95	08 Mar '96	100%
88	Delivery to Naples (1st Shipm)	3d	28 Mar '96	30 Mar '96	3d	02 Apr '96	04 Apr '96	100%
89	**Outdoor S/E: Porcelain Insulators**	**16d**	**30 Apr '96**	**15 May '96**	**143d**	**10 Dec '95**	**NA**	**100%**
90	Procurement and manufacturing	1d	30 Apr '96	30 Apr '96	131d	10 Dec '95	18 Apr '96	100%
91	Delivery to Nagoya Port	15d	01 May '96	15 May '96	11d	20 Apr '96	30 Apr '96	100%
92	PART IA-4 Invoicing (5th Shipm.)	0d	15 May '96	15 May '96	0d	NA	NA	0%
93	PART IB-4 Spare Invoicing (5th Shipm.)	0d	15 May '96	15 May '96	0d	NA	NA	0%
94	**SF6 sealing end**	**149d**	**10 Dec '95**	**07 May '96**	**154d**	**10 Dec '95**	**NA**	**100%**
95	Procurement and manufacturing	143d	10 Dec '95	30 Apr '96	128d	10 Dec '95	15 Apr '96	100%
96	PART IA-3 Invoicing (2nd shipm)	0d	12 May '96	12 May '96	0d	NA	NA	0%
97	PART IB-3 Invoicing (2nd Shipm)	0d	12 May '96	12 May '96	0d	NA	NA	0%
98	**Armour clamp**	**149d**	**10 Dec '95**	**07 May '96**	**169d**	**25 Nov '95**	**NA**	**100%**
99	Procurement and manifacturing	143d	10 Dec '95	30 Apr '96	143d	25 Nov '95	15 Apr '96	100%
100	PART IA-6 Invoicing (2nd shipm)	0d	12 May '96	12 May '96	0d	NA	NA	0%

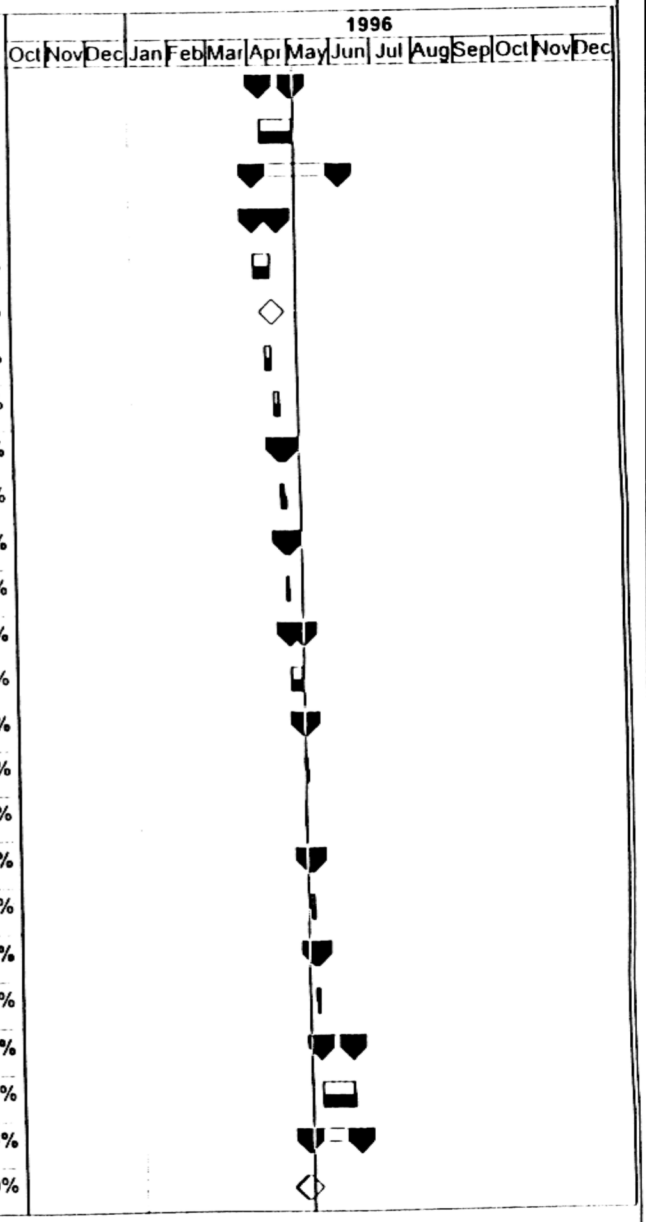


ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
101	**Optical fibre cable termination box**	**119d**	**09 Jan '96**	**07 May '96**	**124d**	**09 Jan '96**	**NA**	**100%**
102	Procurement and manufacturing	66d	09 Jan '96	14 Mar '96	66d	09 Jan '96	14 Mar '96	100%
103	PART IA-5 Invoicing (2nd Shipm)	0d	12 May '96	12 May '96	0d	NA	NA	0%
104	**Earthing link box system**	**110d**	**18 Jan '96**	**07 May '96**	**115d**	**18 Jan '96**	**NA**	**100%**
105	Procurement and manifacturing	89d	18 Jan '96	15 Apr '96	89d	18 Jan '96	15 Apr '96	100%
106	PART IA-7 Invoicing (2nd shipm)	0d	12 May '96	12 May '96	0d	NA	NA	0%
107	PART IB-7 Spare Invoicing (2nd Shipm	0d	12 May '96	12 May '96	0d	NA	NA	0%
108	**Flexible repair submarine OF joint**	**55d**	**16 Jan '96**	**10 Mar '96**	**57d**	**16 Jan '96**	**12 Mar '96**	**100%**
109	Procurement and manufacturing	55d	16 Jan '96	10 Mar '96	57d	16 Jan '96	12 Mar '96	100%
110	**Repair joint for Fiber Optical Cable**	**58d**	**12 Jan '96**	**09 Mar '96**	**61d**	**12 Jan '96**	**12 Mar '96**	**100%**
111	Procurement and manufacturing	58d	12 Jan '96	09 Mar '96	61d	12 Jan '96	12 Mar '96	100%
112	**Temperature Monitoring System**	**142d**	**10 Jan '96**	**30 May '96**	**100.1d**	**09 Jan '96**	**NA**	**70%**
113	**Monitoring system**	**142d**	**10 Jan '96**	**30 May '96**	**100.1d**	**09 Jan '96**	**NA**	**70%**
114	Procurement and manufacturing	142d	10 Jan '96	30 May '96	99 4d	09 Jan '96	NA	70%
115	PART IC-4 Invoicing (6th Shipm)	0d	30 May '96	30 May '96	0d	NA	NA	0%
116	**Shipment 1: cable 1&2 and FO**	**34d**	**28 Mar '96**	**30 Apr '96**	**35d**	**28 Mar '96**	**01 May '96**	**100%**
117	**Ship 1 preparation**	**4d**	**28 Mar '96**	**01 Apr '96**	**4d**	**28 Mar '96**	**01 Apr '96**	**100%**
118	Ship's arrival in Naples harbour	0d	28 Mar '96	28 Mar '96	0d	28 Mar '96	28 Mar '96	100%
119	Mob equip and pers. at Naples	4d	28 Mar '96	31 Mar '96	4d	28 Mar '96	31 Mar '96	100%
120	Degasifier assembling on ship 1 (Naples	4d	28 Mar '96	01 Apr '96	4d	28 Mar '96	01 Apr '96	100%
121	Accessories & Reels Loading	1d	31 Mar '96	31 Mar '96	1d	31 Mar '96	31 Mar '96	100%
122	**Loading lengths 1-2 and F.O. cable**	**3d**	**03 Apr '96**	**05 Apr '96**	**3d**	**03 Apr '96**	**05 Apr '96**	**100%**
123	Loading at Arco Felice	3d	03 Apr '96	05 Apr '96	3d	03 Apr '96	05 Apr '96	100%
124	**Rigging for transit**	**2d**	**06 Apr '96**	**08 Apr '96**	**3d**	**06 Apr '96**	**08 Apr '96**	**100%**
125	Rigging for transit at Arco Felice	2d	06 Apr '96	08 Apr '96	3d	06 Apr '96	08 Apr '96	100%

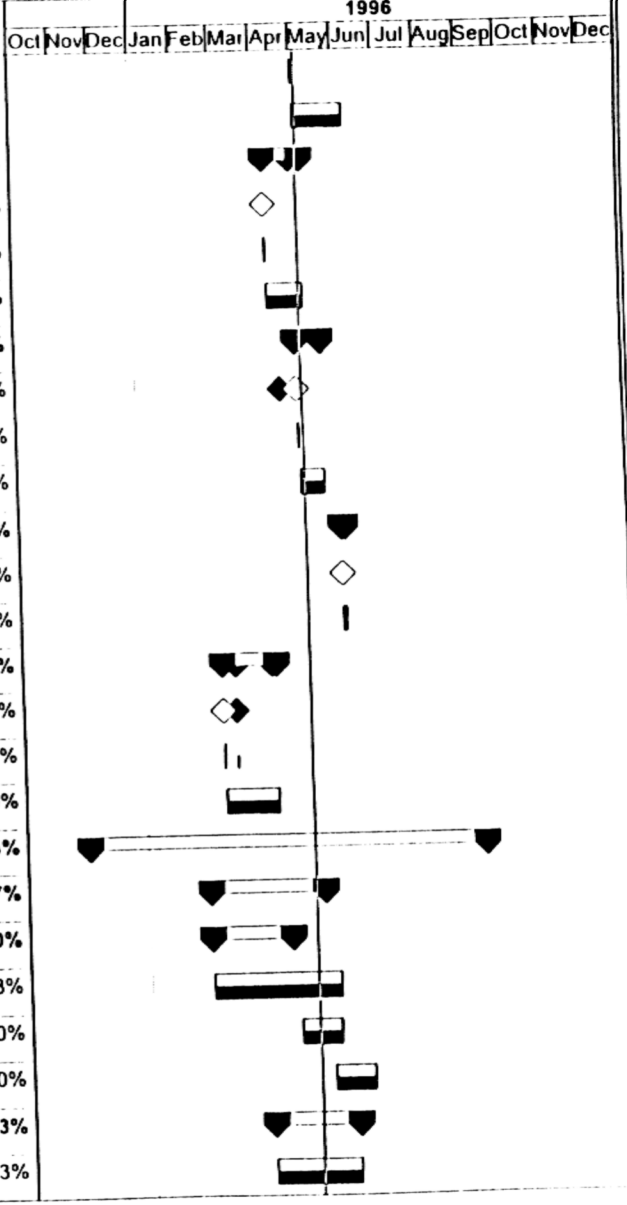


Progress of works

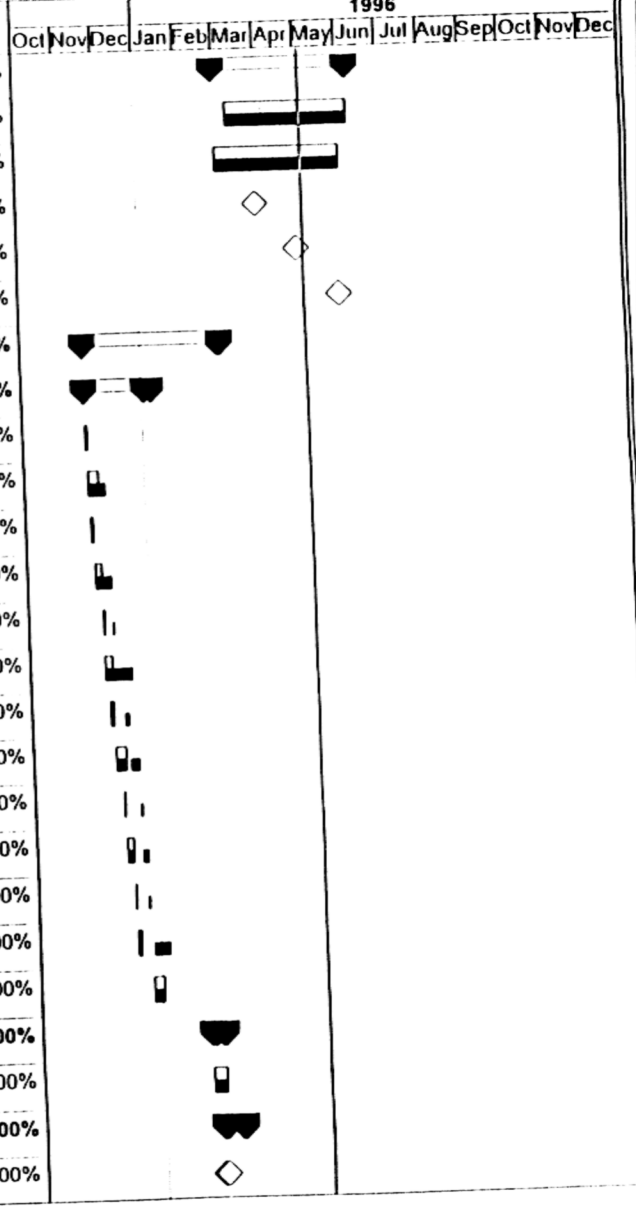
ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
126	**Transit**	**25d**	**09 Apr '96**	**03 May '96**	**23d**	**09 Apr '96**	**01 May '96**	**100%**
127	Transit to Butterworth & Cust. Clearance	25d	09 Apr '96	03 May '96	23d	09 Apr '96	01 May '96	100%
128	**Shipment 2: cables 3&4, 5&6, spare length**	**72d**	**03 Apr '96**	**06 Jun '96**	**28.12d**	**03 Apr '96**	**NA**	**44%**
129	**Ship 2 preparation at S'ton**	**25d**	**03 Apr '96**	**20 Apr '96**	**19d**	**03 Apr '96**	**21 Apr '96**	**100%**
130	Degasifier mob. to S'ton (ship 2)	12d	03 Apr '96	15 Apr '96	13d	03 Apr '96	15 Apr '96	100%
131	Ship's arrival in S'ton wharf	1d	17 Apr '96	17 Apr '96	1d	17 Apr '96	17 Apr '96	100%
132	Mob. of equipment to S'ton	4d	11 Apr '96	15 Apr '96	5d	11 Apr '96	15 Apr '96	100%
133	Degasifier assembling on ship 2 (S'ton)	4d	17 Apr '96	20 Apr '96	4d	18 Apr '96	21 Apr '96	100%
134	**Loading Cables 3&4**	**3d**	**20 Apr '96**	**22 Apr '96**	**4d**	**21 Apr '96**	**24 Apr '96**	**100%**
135	Loading lenghts 3&4 at Southampton	3d	20 Apr '96	22 Apr '96	4d	21 Apr '96	24 Apr '96	100%
136	**Rigging for Transit**	**2d**	**23 Apr '96**	**24 Apr '96**	**1d**	**25 Apr '96**	**25 Apr '96**	**100%**
137	Rigging for transit at Southampton	2d	23 Apr '96	24 Apr '96	1d	25 Apr '96	25 Apr '96	100%
138	**Transit**	**9d**	**25 Apr '96**	**04 May '96**	**5d**	**25 Apr '96**	**NA**	**50%**
139	Transit to Naples	9d	25 Apr '96	03 May '96	5d	25 Apr '96	NA	50%
140	**Ship 2 preparation at Naples**	**2d**	**04 May '96**	**05 May '96**	**0d**	**NA**	**NA**	**0%**
141	Vessel Preparation at Naples	2d	04 May '96	05 May '96	0d	NA	NA	0%
142	Accessories loading at Naples	1d	04 May '96	04 May '96	0d	NA	NA	0%
143	**Loading Cables 5&6**	**3d**	**06 May '96**	**08 May '96**	**0d**	**NA**	**NA**	**0%**
144	Loading lenghts 5&6 at Arco Felice	3d	06 May '96	08 May '96	0d	NA	NA	0%
145	**Rigging for Transit**	**2d**	**09 May '96**	**11 May '96**	**0d**	**NA**	**NA**	**0%**
146	Rigging for transit at Arco Felice	2d	09 May '96	11 May '96	0d	NA	NA	0%
147	**Transit**	**25d**	**12 May '96**	**04 Jun '96**	**0d**	**NA**	**NA**	**0%**
148	Transit to Butterworth & Cust. Clearance	25d	12 May '96	04 Jun '96	0d	NA	NA	0%
149	**Shipment 3: pumping plant**	**38d**	**02 May '96**	**08 Jun '96**	**0d**	**NA**	**NA**	**0%**
150	Ship arrival at Charleston	0d	02 May '96	02 May '96	0d	NA	NA	0%



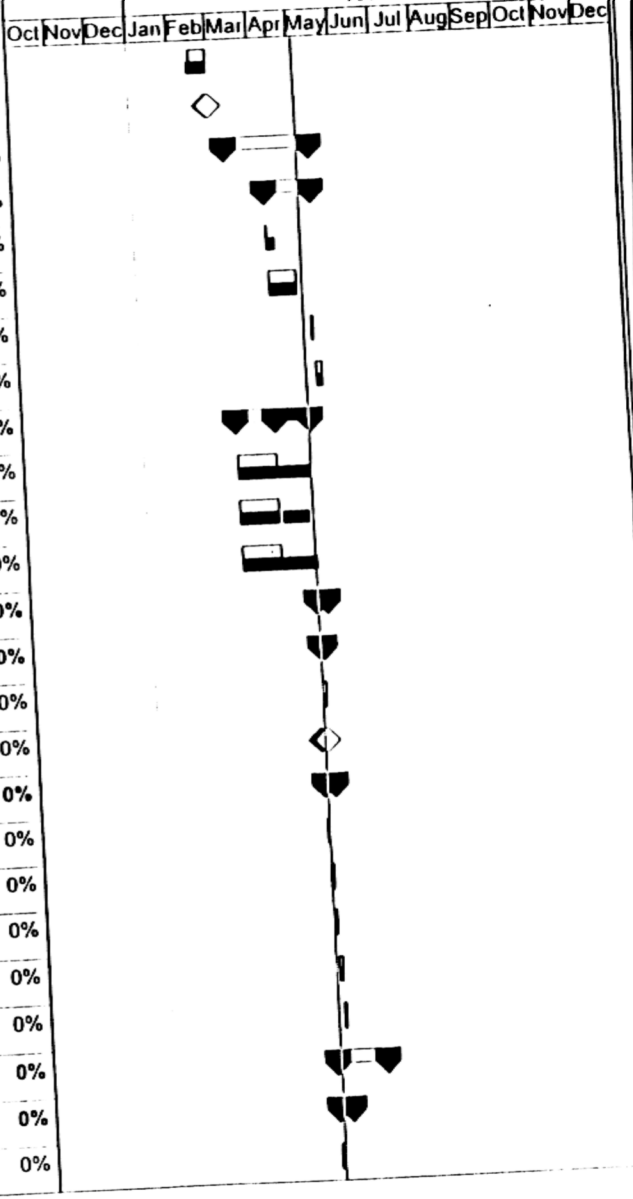
ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
151	Loading	1d	02 May '96	02 May '96	0d	NA	NA	0%
152	Transit to Butterworth & Custom Clearanc	37d	03 May '96	08 Jun '96	0d	NA	NA	0%
153	**Shipment 4: cable oil**	**28d**	**10 Apr '96**	**07 May '96**	**20d**	**10 Apr '96**	**29 Apr '96**	**100%**
154	Ship arrival at Barcellona (Spain)	1d	10 Apr '96	10 Apr '96	1d	10 Apr '96	10 Apr '96	100%
155	Loading	1d	10 Apr '96	10 Apr '96	1d	10 Apr '96	10 Apr '96	100%
156	Transit to Butterworth & Custom Clearance	27d	11 Apr '96	07 May '96	19d	11 Apr '96	29 Apr '96	100%
157	**Shipment 5: Porcelain Insulators**	**18d**	**01 May '96**	**19 May '96**	**0d**	**NA**	**NA**	**0%**
158	Ship arrival at Singapore	1d	01 May '96	01 May '96	0d	NA	NA	0%
159	Loading	1d	01 May '96	01 May '96	0d	NA	NA	0%
160	Transit to Butterworth & Custom Clearance	18d	02 May '96	19 May '96	0d	NA	NA	0%
161	**Shipment 6: Monitoring System**	**3d**	**30 May '96**	**02 Jun '96**	**0d**	**NA**	**NA**	**0%**
162	Delivery at UK Airport	0d	30 May '96	30 May '96	0d	NA	NA	0%
163	Transit to Penang Airport & Cust. Clearance	3d	31 May '96	02 Jun '96	0d	NA	NA	0%
164	**Equipment Mobilization**	**41d**	**29 Feb '96**	**09 Apr '96**	**28d**	**10 Mar '96**	**06 Apr '96**	**100%**
165	Equipment at Loading port	1d	29 Feb '96	29 Feb '96	1d	10 Mar '96	10 Mar '96	100%
166	Loading	1d	29 Feb '96	01 Mar '96	1d	10 Mar '96	10 Mar '96	100%
167	**Mob. Equip. to Penang & Custom Clearan**	40d	01 Mar '96	09 Apr '96	27d	11 Mar '96	06 Apr '96	100%
168	L.T.E.	**291d**	**18 Nov '95**	**10 Sep '96**	**130.6d**	**18 Nov '95**	**NA**	**34%**
169	**Civil works**	**85d**	**16 Feb '96**	**11 May '96**	**31.86d**	**16 Feb '96**	**NA**	**37%**
170	**Drilling at Juru**	**60d**	**16 Feb '96**	**16 Apr '96**	**30.44d**	**16 Feb '96**	**NA**	**50%**
171	directional drilling in Juru site	60d	16 Feb '96	21 May '96	38.43d	16 Feb '96	NA	63%
172	Bay escavation n°1	7d	21 Apr '96	20 May '96	0d	NA	NA	0%
173	Bay escavation n°2	7d	15 May '96	13 Jun '96	0d	NA	NA	0%
174	**Landing at Bayan Lepas**	**63d**	**31 Mar '96**	**01 Jun '96**	**7.92d**	**31 Mar '96**	**NA**	**33%**
175	works in Bayan Lepas site	22d	31 Mar '96	01 Jun '96	7.92d	31 Mar '96	NA	33%



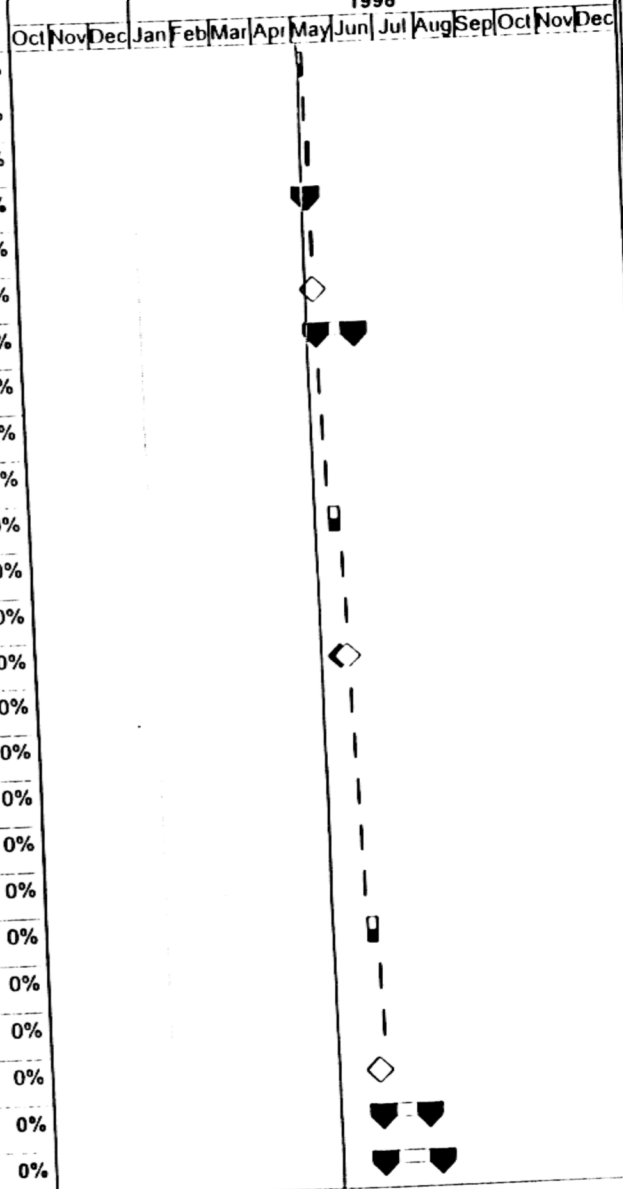
ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
176	**Civil Works in the substations**	**100d**	**01 Mar '96**	**08 Jun '96**	**19.8d**	**01 Mar '96**	**NA**	**28%**
177	Civil Works in Juru Subst	91d	10 Mar '96	08 Jun '96	7.5d	10 Mar '96	NA	25%
178	Civil Works in Penang Subst	93d	01 Mar '96	01 Jun '96	9d	01 Mar '96	NA	30%
179	PART IIA-5-a invoicing	0d	31 Mar '96	31 Mar '96	0d	NA	NA	0%
180	PART IIA-5-b invoicing	0d	30 Apr '96	30 Apr '96	0d	NA	NA	0%
181	PART IIA-5-c invoicing	0d	31 May '96	31 May '96	0d	NA	NA	0%
182	**Survey Activity**	**104d**	**18 Nov '95**	**29 Feb '96**	**102d**	**18 Nov '95**	**27 Feb '96**	**100%**
183	**Hydrogeographic Survey**	**46d**	**18 Nov '95**	**02 Jan '96**	**51d**	**18 Nov '95**	**07 Jan '96**	**100%**
184	Mob of survey equipment to Penang	2d	18 Nov '95	19 Nov '95	2d	18 Nov '95	19 Nov '95	100%
185	On shore topographic survey	8d	19 Nov '95	27 Nov '95	13d	19 Nov '95	01 Dec '95	100%
186	Boat fit, test of equipment to Penang	2d	20 Nov '95	21 Nov '95	2d	20 Nov '95	21 Nov '95	100%
187	Hydrographic survey work	5d	22 Nov '95	26 Nov '95	12d	22 Nov '95	03 Dec '95	100%
188	Demob	1d	27 Nov '95	27 Nov '95	1d	04 Dec '95	04 Dec '95	100%
189	Reporting and charting	6d	27 Nov '95	02 Dec '95	16d	02 Dec '95	17 Dec '95	100%
190	Mob Vibrocoring and Navigation	3d	30 Nov '95	02 Dec '95	3d	11 Dec '95	13 Dec '95	100%
191	Vibrocoring	8d	03 Dec '95	10 Dec '95	7d	14 Dec '95	20 Dec '95	100%
192	Mob Divers	1d	08 Dec '95	08 Dec '95	1d	21 Dec '95	21 Dec '95	100%
193	Diving operation	5d	09 Dec '95	13 Dec '95	4d	21 Dec '95	24 Dec '95	100%
194	Demob divers	1d	14 Dec '95	14 Dec '95	1d	24 Dec '95	24 Dec '95	100%
195	Divers report	3d	15 Dec '95	17 Dec '95	12d	27 Dec '95	07 Jan '96	100%
196	Core samples tests	8d	26 Dec '95	02 Jan '96	8d	26 Dec '95	02 Jan '96	100%
197	**Anchor penetration test**	**10d**	**07 Feb '96**	**16 Feb '96**	**5d**	**10 Feb '96**	**14 Feb '96**	**100%**
198	Anchor penetration test	10d	07 Feb '96	16 Feb '96	5d	10 Feb '96	14 Feb '96	100%
199	**Final Report**	**14d**	**15 Feb '96**	**29 Feb '96**	**14d**	**13 Feb '96**	**27 Feb '96**	**100%**
200	Survey Final Report	0d	15 Feb '96	15 Feb '96	0d	13 Feb '96	13 Feb '96	100%



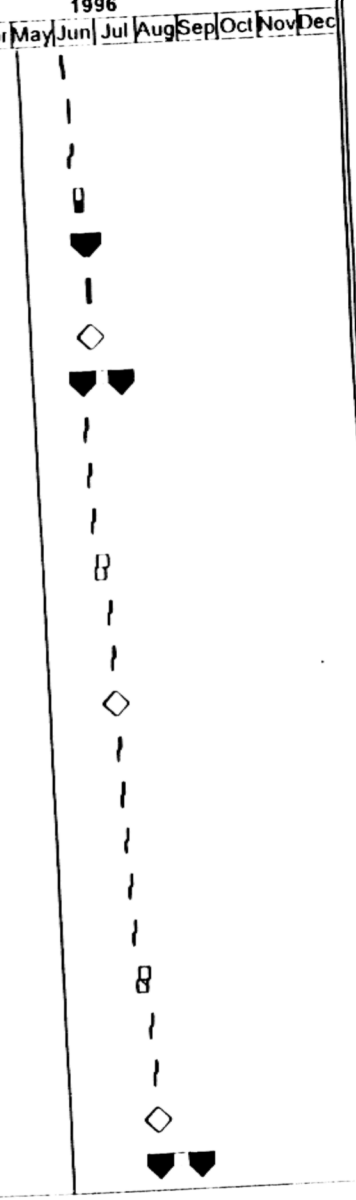
ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
201	Anchor Penetration Test Report	13d	17 Feb '96	29 Feb '96	13d	15 Feb '96	27 Feb '96	100%
202	PART IIA-1 Invoicing	0d	29 Feb '96	29 Feb '96	0d	27 Feb '96	27 Feb '96	100%
203	**Preparation/Mob**	**64d**	**11 Mar '96**	**13 May '96**	**59.06d**	**11 Mar '96**	**NA**	**91%**
204	**Landings Preparation**	**35d**	**09 Apr '96**	**13 May '96**	**27.6d**	**09 Apr '96**	**NA**	**77%**
205	Equipment Unloading	1d	09 Apr '96	10 Apr '96	7d	09 Apr '96	15 Apr '96	100%
206	Degas. assemb. Juru, lay & st. barge	21d	10 Apr '96	01 May '96	16d	15 Apr '96	30 Apr '96	100%
207	Degasifier disassembling from ship 1	2d	10 May '96	11 May '96	0d	NA	NA	0%
208	Degas. assemb. Penang landing site	5d	12 May '96	16 May '96	0d	NA	NA	0%
209	**Barges Preparation**	**30d**	**11 Mar '96**	**09 Apr '96**	**56d**	**11 Mar '96**	**05 May '96**	**100%**
210	Lay Barge preparation	30d	11 Mar '96	09 Apr '96	54d	11 Mar '96	03 May '96	100%
211	Storage Barge Preparation	30d	11 Mar '96	09 Apr '96	19d	13 Apr '96	01 May '96	100%
212	Repair Barge Preparation	30d	11 Mar '96	09 Apr '96	30d	06 Apr '96	05 May '96	100%
213	**Initial Operations**	**8d**	**04 May '96**	**11 May '96**	**0d**	**NA**	**NA**	**0%**
214	**Sea Trials Demonstration**	**2d**	**05 May '96**	**07 May '96**	**0d**	**NA**	**NA**	**0%**
215	Lay Barge sea trials	2d	05 May '96	07 May '96	0d	NA	NA	0%
216	PART IIA-2 Invoicing	0d	07 May '96	07 May '96	0d	NA	NA	0%
217	**TIME Cable Crossing Operation**	**7d**	**03 May '96**	**10 May '96**	**0d**	**NA**	**NA**	**0%**
218	Cable searching & cutting	1d	03 May '96	04 May '96	0d	NA	NA	0%
219	Cable retrieve & reburial at -3m	2d	04 May '96	06 May '96	0d	NA	NA	0%
220	Cable jointing	1d	06 May '96	07 May '96	0d	NA	NA	0%
221	Cable Bight reburial	2d	07 May '96	09 May '96	0d	NA	NA	0%
222	Final tests	1d	09 May '96	10 May '96	0d	NA	NA	0%
223	**Lengths 1-2 & F.O. lay and burial**	**38d**	**02 May '96**	**08 Jun '96**	**0d**	**NA**	**NA**	**0%**
224	**Cable 1&2 unloading**	**10d**	**02 May '96**	**11 May '96**	**0d**	**NA**	**NA**	**0%**
225	Ship 1 Rigging for unloading	2d	02 May '96	04 May '96	0d	NA	NA	0%



ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
226	Cable 1&2 loading onto Storage Barge	3 5d	05 May '96	08 May '96	0d	NA	NA	0%
227	Opt cable loading onto Storage Barge	0 5d	08 May '96	08 May '96	0d	NA	NA	0%
228	Cable 1 loading onto Lay Barge	2d	09 May '96	11 May '96	0d	NA	NA	0%
229	**Demob Ship 1**	**2d**	**07 May '96**	**08 May '96**	**0d**	**NA**	**NA**	**0%**
230	Demob Transit ship 1	2d	10 May '96	11 May '96	0d	NA	NA	0%
231	Ship 1 Departure from Butterworth	0d	11 May '96	11 May '96	0d	NA	NA	0%
232	**Lay/burial lengths 1-2 & F.O.**	**28d**	**12 May '96**	**08 Jun '96**	**0d**	**NA**	**NA**	**0%**
233	Transit to Juru	1d	12 May '96	12 May '96	0d	NA	NA	0%
234	Landing at Juru	1d	13 May '96	13 May '96	0d	NA	NA	0%
235	Burial intertidal area	1d	14 May '96	14 May '96	0d	NA	NA	0%
236	Main lay/burial Cable 1	8d	15 May '96	22 May '96	0d	NA	NA	0%
237	Landing at Penang	1d	23 May '96	23 May '96	0d	NA	NA	0%
238	Burial final portion	1d	24 May '96	24 May '96	0d	NA	NA	0%
239	PART IIA-3a Invoicing	0d	24 May '96	24 May '96	0d	NA	NA	0%
240	Transit to Pinang	1d	25 May '96	25 May '96	0d	NA	NA	0%
241	Cable 2 loading onto Lay Barge	1d	26 May '96	26 May '96	0d	NA	NA	0%
242	Transit to Juru	1d	27 May '96	27 May '96	0d	NA	NA	0%
243	Landing at Juru	1d	28 May '96	28 May '96	0d	NA	NA	0%
244	Burial interidal area	1d	29 May '96	29 May '96	0d	NA	NA	0%
245	Main lay/burial Cable 2 with F.O. cable	8d	30 May '96	06 Jun '96	0d	NA	NA	0%
246	Landing at Penang	1d	07 Jun '96	07 Jun '96	0d	NA	NA	0%
247	Burial final portion	1d	08 Jun '96	08 Jun '96	0d	NA	NA	0%
248	PART IIA-3b Invoicing	0d	04 Jun '96	04 Jun '96	0d	NA	NA	0%
249	**Lengths 3-4 lay and burial**	**35d**	**05 Jun '96**	**09 Jul '96**	**0d**	**NA**	**NA**	**0%**
250	**Cables 3&4 and 5&6 Unloading**	**12.5d**	**05 Jun '96**	**17 Jul '96**	**0d**	**NA**	**NA**	**0%**

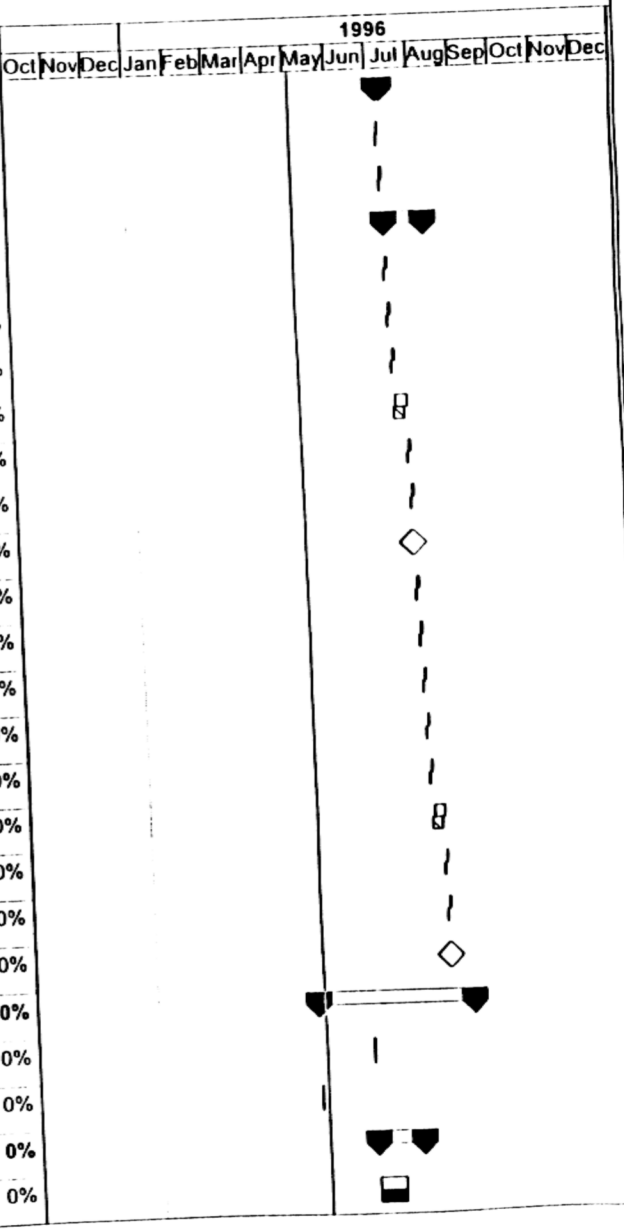


ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
251	Ship 2 Rigging for unloading	2d	05 Jun '96	06 Jun '96	0d	NA	NA	0%
252	Lay Barge Transit to Pinang	1d	09 Jun '96	09 Jun '96	0d	NA	NA	0%
253	Cable 3 loading onto Lay Barge	1.5d	10 Jun '96	11 Jun '96	0d	NA	NA	0%
254	Cable 4-5-6 loading onto Storage B	6d	11 Jun '96	17 Jun '96	0d	NA	NA	0%
255	**Demob Ship 2**	**2d**	**17 Jun '96**	**19 Jun '96**	**0d**	**NA**	**NA**	**0%**
256	Demob Transit ship 2	2d	17 Jun '96	19 Jun '96	0d	NA	NA	0%
257	Ship 2 departure from Penang	0d	19 Jun '96	19 Jun '96	0d	NA	NA	0%
258	**Lay/burial lengths 3-4**	**28.5d**	**11 Jun '96**	**09 Jul '96**	**0d**	**NA**	**NA**	**0%**
259	Transit to Juru	1d	11 Jun '96	12 Jun '96	0d	NA	NA	0%
260	Landing at Juru	1d	12 Jun '96	13 Jun '96	0d	NA	NA	0%
261	Burial intertidal area	1d	13 Jun '96	14 Jun '96	0d	NA	NA	0%
262	Main lay/burial Cable 3	8d	14 Jun '96	22 Jun '96	0d	NA	NA	0%
263	Landing at Penang	1d	22 Jun '96	23 Jun '96	0d	NA	NA	0%
264	Burial final portion	1d	23 Jun '96	24 Jun '96	0d	NA	NA	0%
265	PART IIA-3-c Invoicing	0d	24 Jun '96	24 Jun '96	0d	NA	NA	0%
266	Transit to Pinang	1d	24 Jun '96	25 Jun '96	0d	NA	NA	0%
267	Cable 4 loading onto L. Barge	1.5d	25 Jun '96	26 Jun '96	0d	NA	NA	0%
268	Transit to Juru	1d	27 Jun '96	27 Jun '96	0d	NA	NA	0%
269	Landing at Juru	1d	28 Jun '96	28 Jun '96	0d	NA	NA	0%
270	Burial intertidal area	1d	29 Jun '96	29 Jun '96	0d	NA	NA	0%
271	Main lay/burial Cable 4	8d	30 Jun '96	07 Jul '96	0d	NA	NA	0%
272	Landing at Penang	1d	08 Jul '96	08 Jul '96	0d	NA	NA	0%
273	Burial final portion	1d	09 Jul '96	09 Jul '96	0d	NA	NA	0%
274	PART IIA-3-d Invoicing	0d	09 Jul '96	09 Jul '96	0d	NA	NA	0%
275	**Lengths 5-6 & F.O. lay/burial**	**31d**	**09 Jul '96**	**08 Aug '96**	**0d**	**NA**	**NA**	**0%**



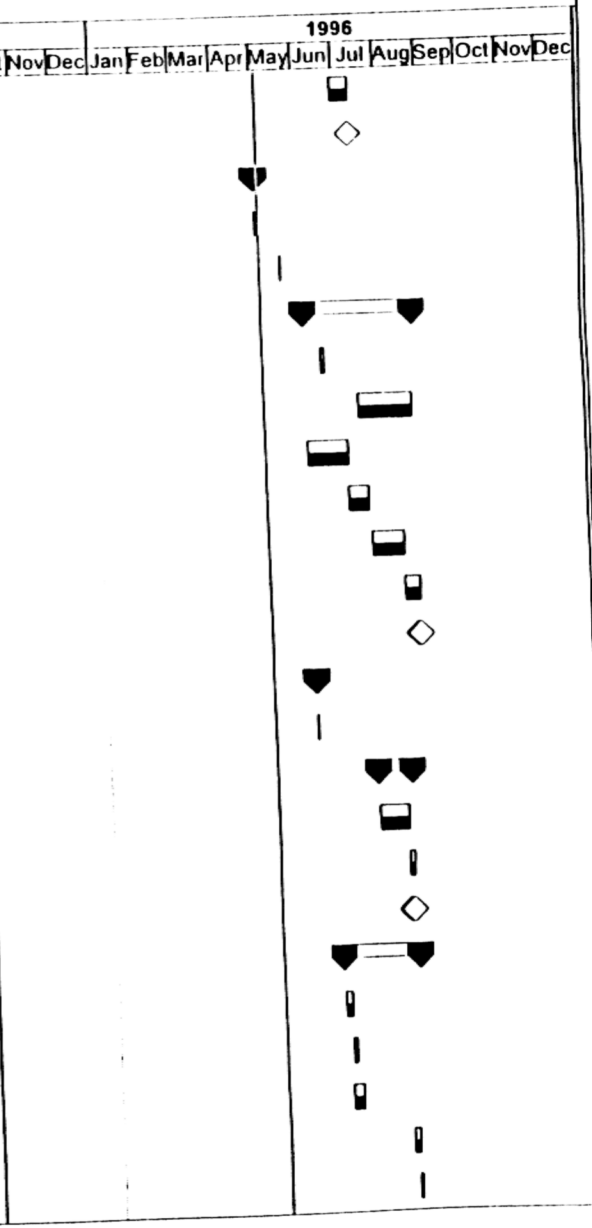
Progress of works

ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
276	**Cables 5&6 unloading**	**2.5d**	**09 Jul '96**	**11 Jul '96**	**0d**	**NA**	**NA**	**0%**
277	Lay Barge Transit to Pinang	1d	09 Jul '96	09 Jul '96	0d	NA	NA	0%
278	Cable 5 loading onto Lay Barge	1.5d	10 Jul '96	11 Jul '96	0d	NA	NA	0%
279	**Lay/burial lengths 5-6 & F.O.**	**28.5d**	**12 Jul '96**	**09 Aug '96**	**0d**	**NA**	**NA**	**0%**
280	Transit to Juru	1d	12 Jul '96	13 Jul '96	0d	NA	NA	0%
281	Landing at Juru	1d	13 Jul '96	14 Jul '96	0d	NA	NA	0%
282	Burial intertidal area	1d	14 Jul '96	15 Jul '96	0d	NA	NA	0%
283	Main lay/burial Cable 5 with F.O. cable	8d	15 Jul '96	23 Jul '96	0d	NA	NA	0%
284	Landing at Penang	1d	23 Jul '96	24 Jul '96	0d	NA	NA	0%
285	Burial final portion	1d	24 Jul '96	25 Jul '96	0d	NA	NA	0%
286	PART IIA-3-e Invoicing	0d	24 Jul '96	24 Jul '96	0d	NA	NA	0%
287	Transit to Pinang	1d	25 Jul '96	26 Jul '96	0d	NA	NA	0%
288	Cable 6 loading onto Lay Barge	1.5d	26 Jul '96	27 Jul '96	0d	NA	NA	0%
289	Transit to Juru	1d	28 Jul '96	28 Jul '96	0d	NA	NA	0%
290	Landing at Juru	1d	29 Jul '96	29 Jul '96	0d	NA	NA	0%
291	Burial intertidal area	1d	30 Jul '96	30 Jul '96	0d	NA	NA	0%
292	Main lay/burial cable 6	8d	31 Jul '96	07 Aug '96	0d	NA	NA	0%
293	Landing at Penang	1d	08 Aug '96	08 Aug '96	0d	NA	NA	0%
294	Burial final portion	1d	09 Aug '96	09 Aug '96	0d	NA	NA	0%
295	PART IIA-3-f Invoicing	0d	09 Aug '96	09 Aug '96	0d	NA	NA	0%
296	**Accessories Installation**	**117d**	**30 Apr '96**	**24 Aug '96**	**0d**	**NA**	**NA**	**0%**
297	**Plant unloading from transit ship 3**	1d	09 Jun '96	09 Jun '96	0d	NA	NA	0%
298	**Feeding Oil unloading from transit ship 4**	1d	30 Apr '96	30 Apr '96	0d	NA	NA	0%
299	**Oil feeding plant erection**	**34d**	**10 Jun '96**	**13 Jul '96**	**0d**	**NA**	**NA**	**0%**
300	Pumping station erection in Juru	20d	10 Jun '96	29 Jun '96	0d	NA	NA	0%



Progress of works

ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
301	Crossover erection in Penang	14d	30 Jun '96	13 Jul '96	0d	NA	NA	0%
302	PART IIA-10 Invoicing	0d	13 Jul '96	13 Jul '96	0d	NA	NA	0%
303	**Accessories unloading from ship 1**	**1d**	**02 May '96**	**02 May '96**	**0d**	**NA**	**NA**	**0%**
304	Misc. Part & OF Cable Term. Box unlo	1d	02 May '96	02 May '96	0d	NA	NA	0%
305	Porcelain Insulator Unloading from ship 5	1d	20 May '96	20 May '96	0d	NA	NA	0%
306	**Outdoor S/E assembling**	**81d**	**05 Jun '96**	**24 Aug '96**	**0d**	**NA**	**NA**	**0%**
307	Degasifier disassembling from ship 2	2d	17 Jun '96	19 Jun '96	0d	NA	NA	0%
308	Hydraulic system erection (oil feeding)	40d	14 Jul '96	22 Aug '96	0d	NA	NA	0%
309	Rack erection for OUT. S/E 1-2-3 in Juru	30d	05 Jun '96	05 Jul '96	0d	NA	NA	0%
310	OUT. S/E 1-2-3 assembling in Juru	14d	05 Jul '96	19 Jul '96	0d	NA	NA	0%
311	Rack disass. & erect. for OUT S/E 4-5-	23d	21 Jul '96	13 Aug '96	0d	NA	NA	0%
312	OUT. S/E 4-5-6 assembling	12d	13 Aug '96	24 Aug '96	0d	NA	NA	0%
313	PART IIA-7 Invoicing	0d	24 Aug '96	24 Aug '96	0d	NA	NA	0%
314	**Accessories unloading from ship 2**	**1d**	**05 Jun '96**	**05 Jun '96**	**0d**	**NA**	**NA**	**0%**
315	SF6 S/E, Armour Clamp, Earthing box u	1d	05 Jun '96	05 Jun '96	0d	NA	NA	0%
316	**SF6 S/E assembling**	**25d**	**19 Jul '96**	**12 Aug '96**	**0d**	**NA**	**NA**	**0%**
317	SF6 S/E 1-2-3-4-5 assembling in Penan	21d	19 Jul '96	09 Aug '96	0d	NA	NA	0%
318	SF6 S/E n° 6 assembling in Penang	3d	09 Aug '96	12 Aug '96	0d	NA	NA	0%
319	PART IIA-6 Invoicing	0d	12 Aug '96	12 Aug '96	0d	NA	NA	0%
320	**Armour clamps**	**56.5d**	**19 Jun '96**	**14 Aug '96**	**0d**	**NA**	**NA**	**0%**
321	Armour clamps assembling 1&2	4d	19 Jun '96	23 Jun '96	0d	NA	NA	0%
322	Armour clamps assembling 3	2d	23 Jun '96	25 Jun '96	0d	NA	NA	0%
323	Benthonite filling and bay cover n°1	7d	22 Jun '96	29 Jun '96	0d	NA	NA	0%
324	Armour clamps assembling 4&5	4d	05 Aug '96	09 Aug '96	0d	NA	NA	0%
325	Armour clamps assembling 6	2d	09 Aug '96	10 Aug '96	0d	NA	NA	0%



Progress Sh...

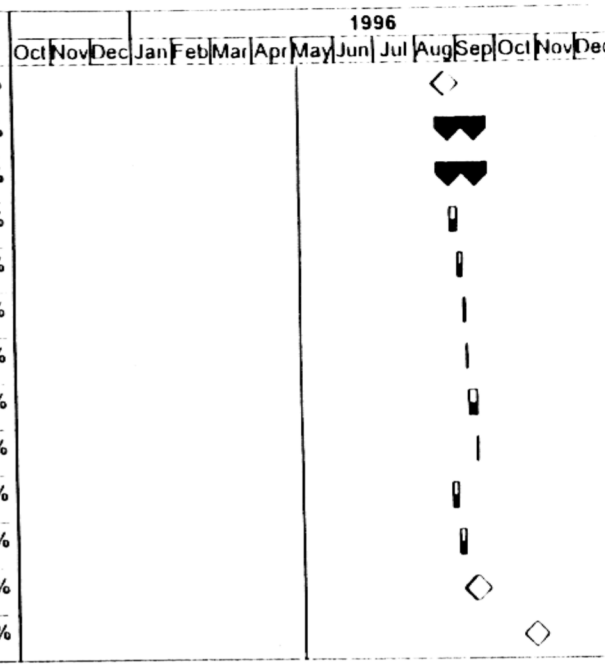
ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
326	Benthonite filling and bay cover n°2	7d	08 Aug '96	14 Aug '96	0d	NA	NA	0%
327	PART IIA-4 Invoicing	0d	14 Aug '96	14 Aug '96	0d	NA	NA	0%
328	**Earthing box assembling**	**4d**	**14 Jul '96**	**17 Jul '96**	**0d**	NA	NA	0%
329	Earthing box assembling	4d	14 Jul '96	17 Jul '96	0d	NA	NA	0%
330	PART IIA-9 invoicing	0d	17 Jul '96	17 Jul '96	0d	NA	NA	0%
331	**Optical Fibre Cable Termination Box**	**4d**	**23 Jul '96**	**27 Jul '96**	**0d**	NA	NA	0%
332	Termination Box Assembling in Juru	2d	23 Jul '96	25 Jul '96	0d	NA	NA	0%
333	Termination Box Assembling in Penang	2d	25 Jul '96	27 Jul '96	0d	NA	NA	0%
334	PART IIA-8 Invoicing	0d	26 Jul '96	26 Jul '96	0d	NA	NA	0%
335	**Monitoring System Unloading**	1d	27 Jul '96	27 Jul '96	0d	NA	NA	0%
336	**MonitorIng System Installation**	**2d**	**23 Jul '96**	**25 Jul '96**	**0d**	NA	NA	0%
337	Monitoring Sys Assembling in Penang	2d	23 Jul '96	25 Jul '96	0d	NA	NA	0%
338	**Other Components Installation**	**198d**	**02 Feb '96**	**17 Aug '96**	**78.6d**	**02 Feb '96**	NA	26%
339	**Light buoys and signals**	**198d**	**02 Feb '96**	**17 Aug '96**	**78.6d**	**02 Feb '96**	NA	26%
340	Engineering	42d	02 Feb '96	14 Mar '96	42d	02 Feb '96	14 Mar '96	100%
341	Supply	94d	13 Apr '96	15 Jul '96	7.35d	13 Apr '96	NA	15%
342	Installation	120d	20 Apr '96	17 Aug '96	6.25d	20 Apr '96	NA	5%
343	PART IIB-2 Invoicing	0d	17 Aug '96	17 Aug '96	0d	NA	NA	0%
344	**Light beacons Installation**	12d	09 Aug '96	20 Aug '96	0d	NA	NA	0%
345	**Final marine operations**	**12d**	**10 Aug '96**	**21 Aug '96**	**0d**	NA	NA	0%
346	**Demob Marine Spread**	**12d**	**10 Aug '96**	**21 Aug '96**	**0d**	NA	NA	0%
347	Drum procurement	0d	11 Aug '96	11 Aug '96	0d	NA	NA	0%
348	Transit to Pinang	1d	10 Aug '96	10 Aug '96	0d	NA	NA	0%
349	Unloading remaining cables	1d	11 Aug '96	11 Aug '96	0d	NA	NA	0%
350	Demob Marine Spread	10d	12 Aug '96	21 Aug '96	0d	NA	NA	0%

1996

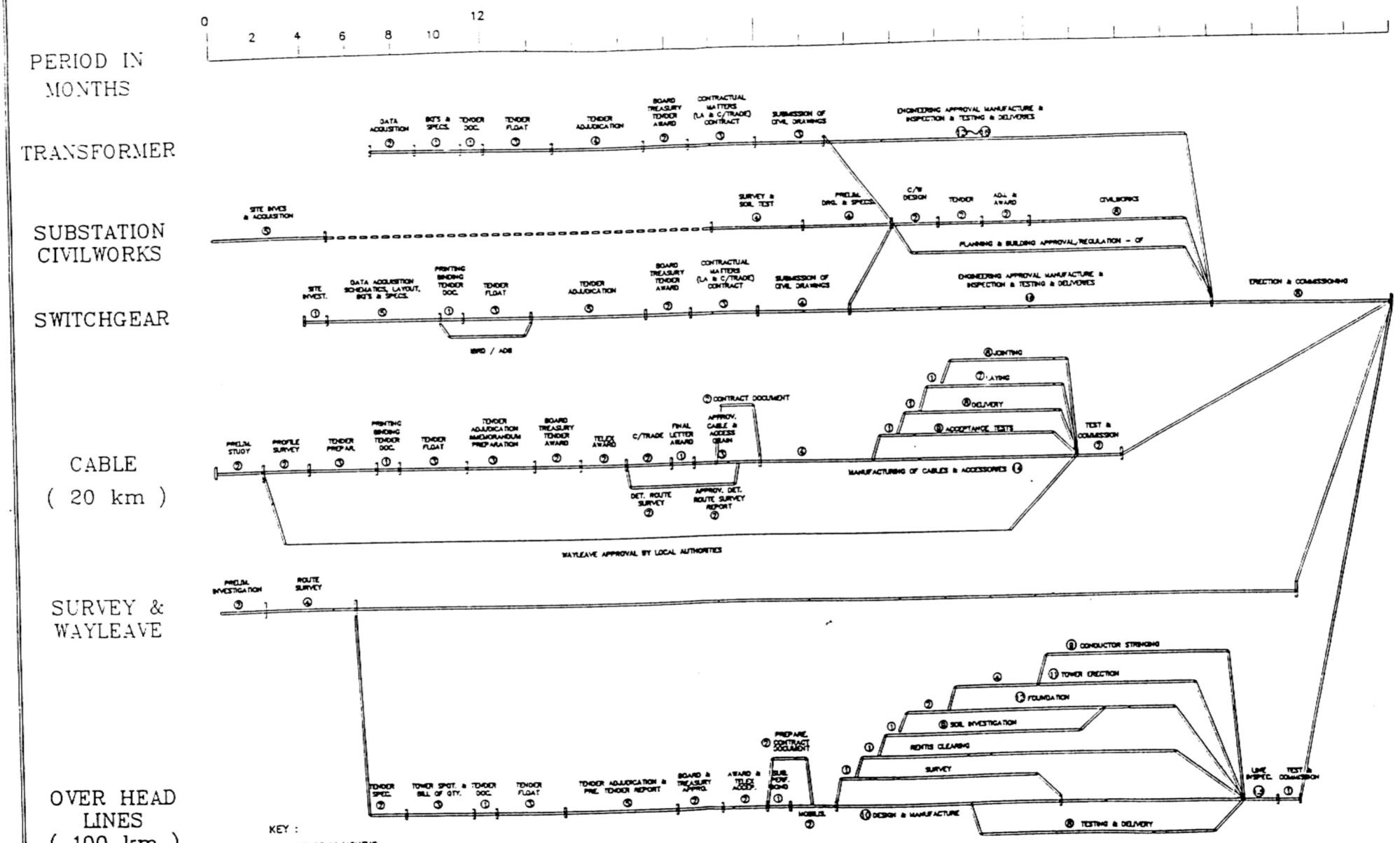
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov De

Progress of works

ID	Task Name	B_Du	B_Start	B_Finish	A_Dur	A_Start	A-Finish	% Co
351	**Notice of Readiness of Tests for Completion**	0d	24 Aug '96	24 Aug '96	0d	NA	NA	0%
352	**System delivery**	**20d**	**25 Aug '96**	**13 Sep '96**	**0d**	**NA**	**NA**	**0%**
353	**Tests for completion**	**20d**	**25 Aug '96**	**13 Sep '96**	**0d**	**NA**	**NA**	**0%**
354	Feeding system test Pumping station	6d	25 Aug '96	30 Aug '96	0d	NA	NA	0%
355	Feeding system test Cross-over	4d	31 Aug '96	03 Sep '96	0d	NA	NA	0%
356	Oil flow test	2d	04 Sep '96	05 Sep '96	0d	NA	NA	0%
357	Impregnation coefficient test	1d	06 Sep '96	06 Sep '96	0d	NA	NA	0%
358	High voltage test	7d	07 Sep '96	13 Sep '96	0d	NA	NA	0%
359	Conductor resistance test	1d	13 Sep '96	13 Sep '96	0d	NA	NA	0%
360	Fiber optic test	5d	25 Aug '96	29 Aug '96	0d	NA	NA	0%
361	Monitoring system	5d	30 Aug '96	03 Sep '96	0d	NA	NA	0%
362	**PIRELLI SUB-CONTRACT COMPLETION**	0d	13 Sep '96	13 Sep '96	0d	NA	NA	0%
363	T.O.C. invoicing	0d	26 Oct '96	26 Oct '96	0d	NA	NA	0%

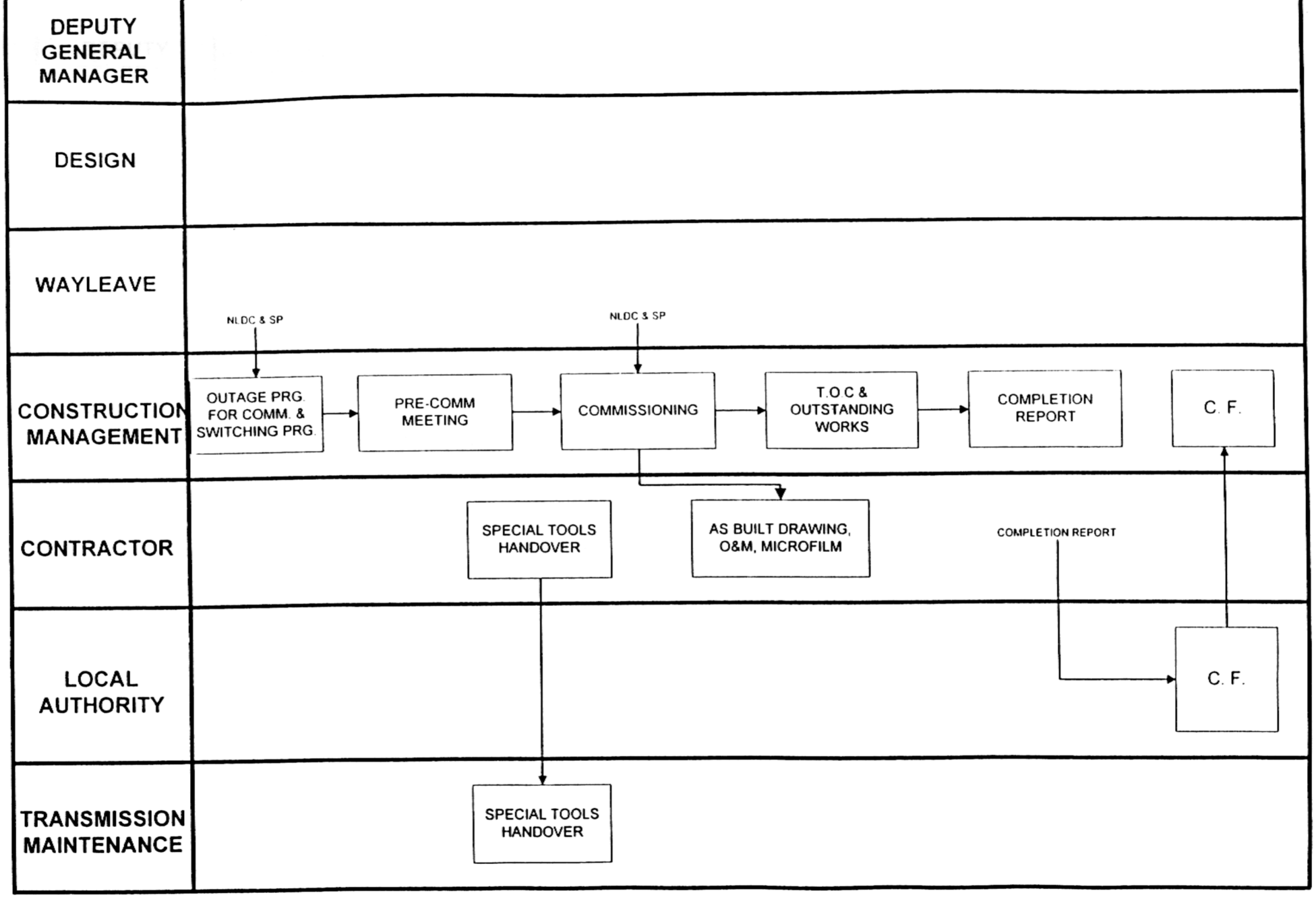


APPENDIX F

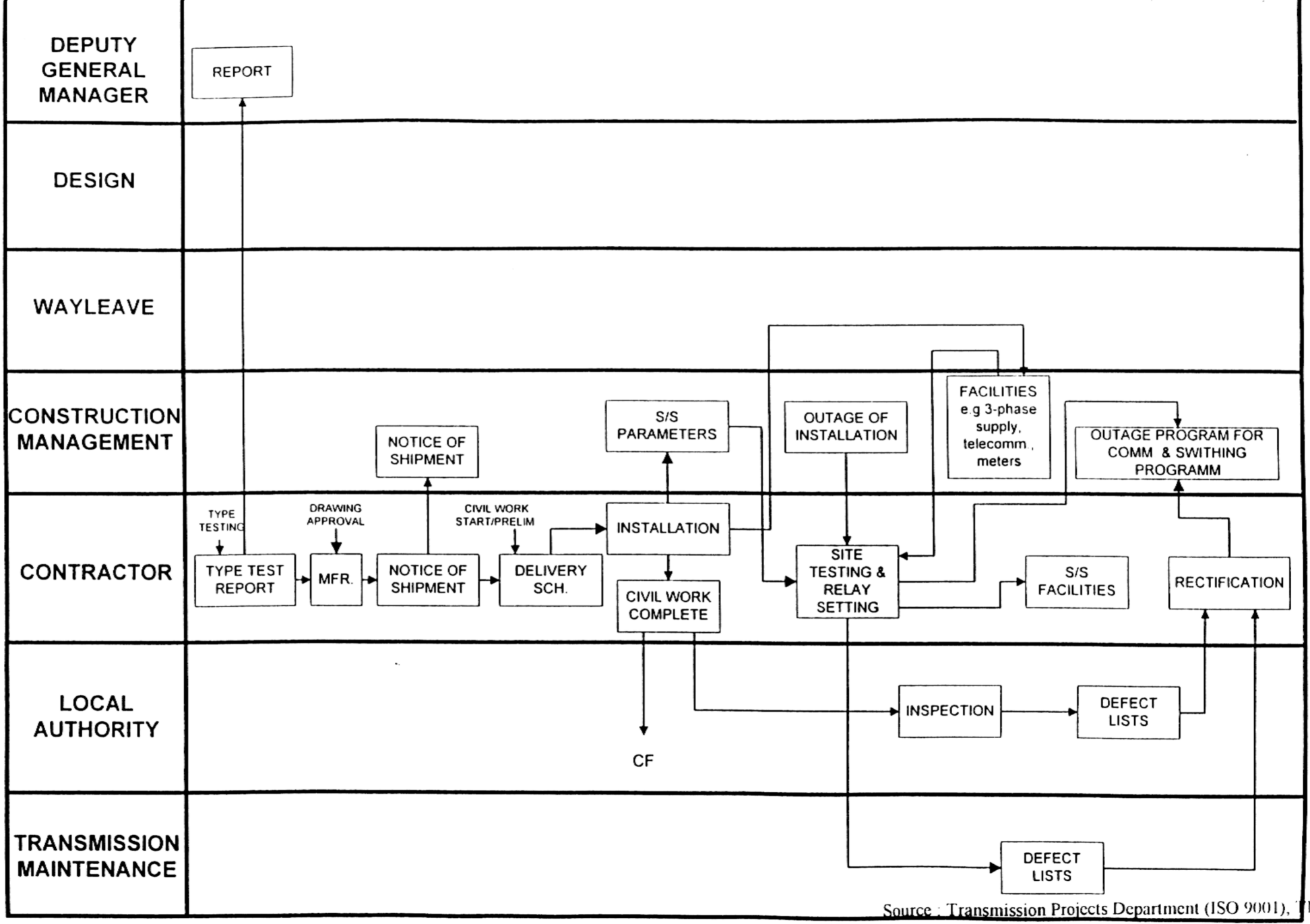


Source : Transmission Projects Department, TN

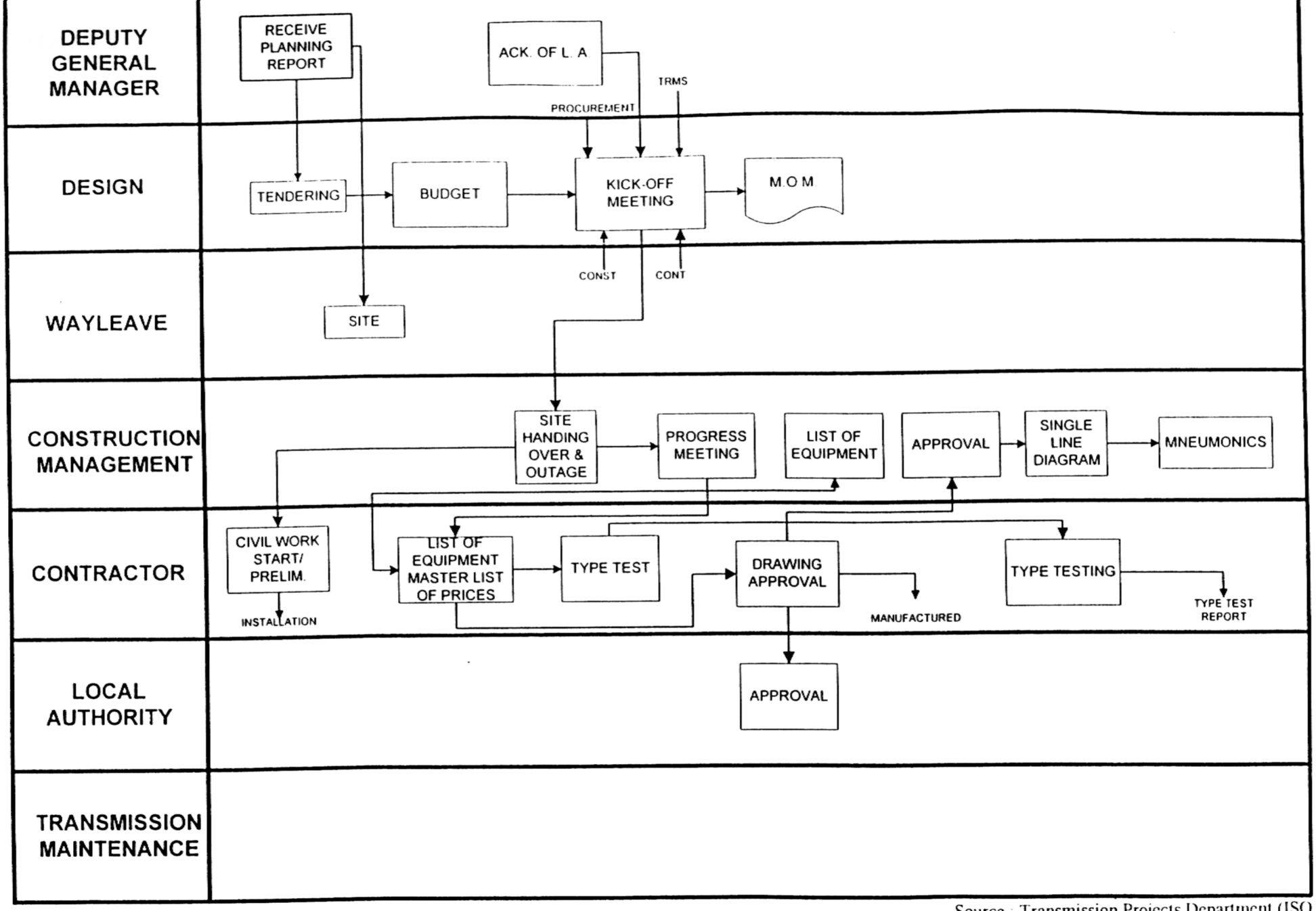
APPENDIX G



Source : Transmission Projects Department (ISO 9001), TN



Source : Transmission Projects Department (ISO 9001), TN



Source : Transmission Projects Department (ISO 9001), TNB