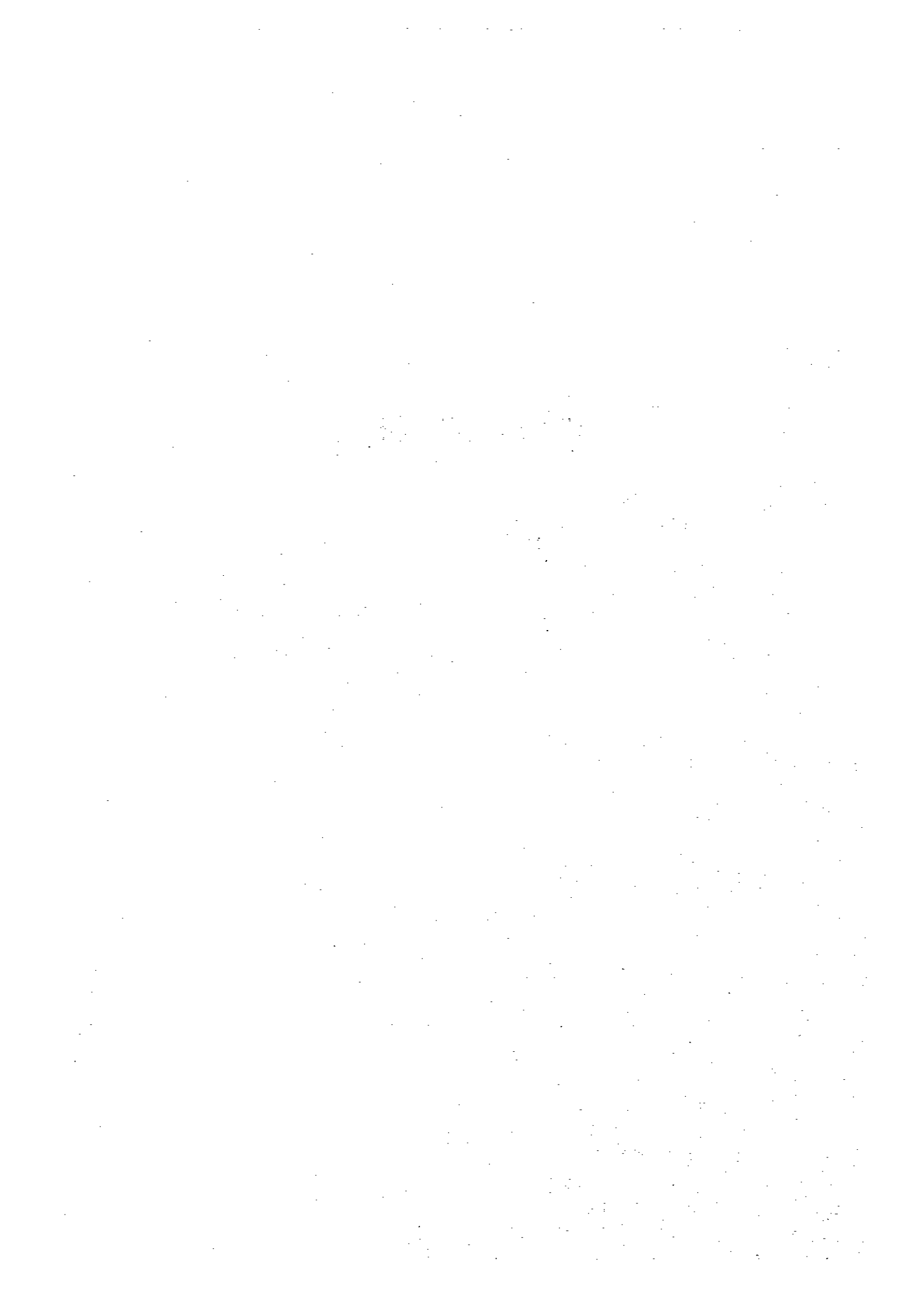


附 属 資 料



プロジェクトデザインマトリックス
(PMD)

プロジェクトの要約	指 標	指標データ 入手手段	外 部 条 件
<p>〈上位目標〉</p> <p>ミャンマー国の森林・林業における社会的・経済的發展に貢献する。</p>	<p>[短期的指標]</p> <p>・訓練修了者の林業分野への定着率</p> <p>[長期的指標]</p> <p>・林業生産額</p> <p>・植林面積</p> <p>・輸出量・額</p>	<p>モニタリング報告書</p> <p>森林局統計</p>	<p>・国家開発計画及び国家森林・林業政策に大幅な変更がない。</p>
<p>〈プロジェクト目標〉</p> <p>中央林業開発訓練センターの組織・機能が構築され、訓練能力が強化される。</p>	<p>・職員配置数</p> <p>・予算額</p> <p>・講師数</p>	<p>(CFDTC)</p> <p>森林局予算・決算書</p>	<p>上記政策に継続的に財政的措置がなされる。</p>
<p>〈成 果〉</p> <p>(訓練)</p> <p>1. 森林局職員に対し造林技術、苗畑実習、森林保護、林業機械の訓練が実施される</p> <p>2. 地域住民を中心に地域開発林業とアグロフォレストリーの訓練が実施される。</p> <p>(施設)</p> <p>3. 苗畑、展示林等演習林が訓練に活用される</p> <p>4. 機材の操作能力が向上する。</p> <p>5. 機材の維持・管理機能が強化される。</p>	<p>(訓練)</p> <p>[定量的指標]</p> <p>・訓練計画に対する実施率</p> <p>・コース数、受講者数</p> <p>・教材の充足率(注1)と活用度(注2)</p> <p>[定性的指標]</p> <p>・訓練計画の作成能力(注3)</p> <p>・訓練技術能力</p> <p>・専門的技術レベル</p>	<p>CFDTC業務資料</p>	<p>・森林局においてCFDTCの訓練センターとしての位置付けに変更がない。</p>
<p>〈活 動〉</p> <p>(訓練)</p> <p>1. 訓練に関する下記の事項について指導・実施する。</p> <p>1-1 訓練ニーズを把握する。</p> <p>1-2 訓練計画を立てる。</p> <p>1-3 訓練教材を開発・作成する。</p> <p>1-4 訓練実施手法を確立する。</p> <p>(施設)</p> <p>2. 苗畑、展示林等演習林を造成する。</p> <p>3. 機材の操作及び維持・管理方法を指導する。</p>	<p>(施設)</p> <p>・実習回数</p> <p>・操作技能者の数</p> <p>・稼働可能台数の割合</p> <p>・維持管理技能を有する職員の数</p>		<p>[前提条件]</p> <p>ミャンマー政府の投入計画が予定どおり実施される。</p>

(注1) 訓練コースに必要な教材

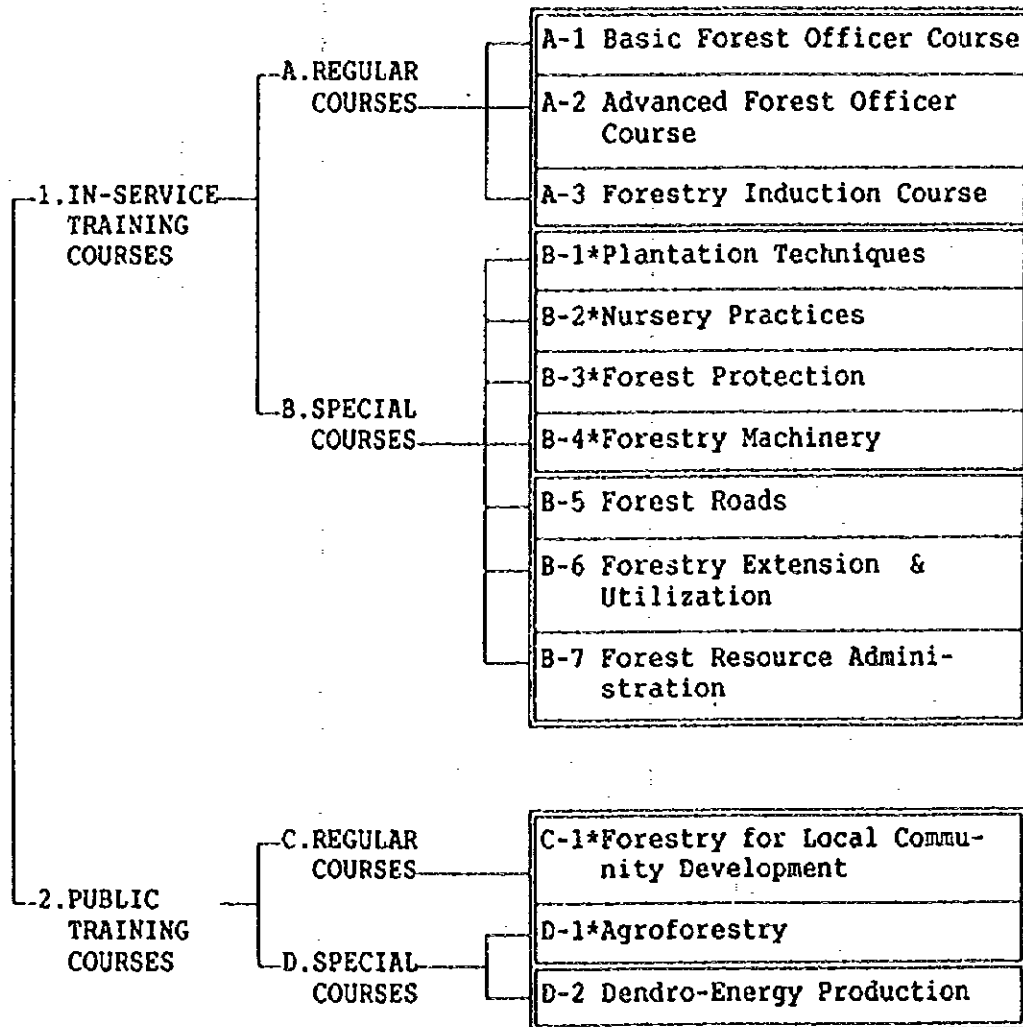
(注2) 訓練コースに必要な教材の量・種類

(注3) 受講対象者の選抜等

訓練コースの分類

Classification of the Training Courses

(During the term of the follow-up programme, August 1995 - July 1997)



(*) : Training courses under Technical Cooperation Programme.

訓練コース実施実績 (1991年3月~1996年7月)

IMPLEMENTATION RESULTS OF THE TRAINING COURSES (TCP)

CFDTC No.1

Sr No	Name of Course	Term of Training	Nos of Trainee		Object	Status	Fiscal Year
			Plan	Actual			
1	Forestry for Local Community Development No(1)	18/3/91 - 30/3/91 2 weeks	30	28	In-service	S.O; 2 R.O;26	90/91 1/28
2	Forest Machinery No(1)	5/8/91 - 21/9/91 6 weeks	20	19	*	R.O	91/92
3	Plantation Techniques No(1)	12/8/91 - 20/9/91 6 weeks	30	25	*	R.O	
4	Forestry for Local Community Development No(2)	2/12/91 - 13/12/91 2 weeks	30	23	*	F.R	
5	Nursery Practices No(1)	16/12/91 - 13/1/92 4 weeks	30	30	*	F.R	
6	Forest Road No(1)	16/12/91 - 13/1/92 4 weeks	20	19	*	F.R	
7	Forest Protection No (1)	10/2/92 - 20/3/92 6 weeks	30	28	*	F.R	
8	Agroforestry No(1)	23/3/92 - 3/4/92 2 weeks	20	20	*	F.R	
9	Nursery Practices No(2)	11/5/92 - 5/6/92 4 weeks	30	27	*	F.R	
10	Plantation Techniques No(2)	22/6/92 - 17/7/92 4 weeks	30	29	*	F.R	
11	Forest Road No(2);Basic	22/6/92 - 17/7/92 4 weeks	20	17	*	F.R	
12	Forest Protection No(2) ;Advanced	15/7/92 - 29/7/92 6 weeks	20	21	*	R.O	
13	Forest Machinery No(2);Basic	3/8/92 - 31/8/92 4 weeks	20	20	*	F.R	
14	Agroforestry No(2)	24/8/92 - 28/8/92 1 week	30	30	Public	L.P	
15	Forestry for Local Community Development No(3)	21/9/92 - 25/9/92 1 week	30	30	*	L.P	
16	Forest Machinery No(3) ;Advanced	2/11/92 - 13/11/92 2 weeks	30	28	In-service	R.O	
17	Plantation Techniques No(3)	2/11/92 - 27/11/92 4 weeks	30	29	*	F.R	
18	Agroforestry No(3)	30/11/92-11/12/92 2 weeks	30	30	*	F.R	
19	Forestry for Local Community Development No(4)	14/12/92-18/12/92 1 week	30	19	Public	L.P	
20	Forest Road No(3);Advanced	28/12/92 - 5/2/93 5 weeks	30	24	In-service	R.O	

* S.O = Staff Officer, R.O = Range Officer, F.R = Forest Ranger, F = Forester, L.P = Local People

CFDTC No.2

Sr No	Name of Course	Term of Training	Nos of Trainee		Object	Status	Fiscal Year
			Plan	Actual			
21	Nursery Practices No (3)	6 / 1 / 93 - 2 / 2 / 93 4 weeks	30	26	In-service	F.R	92 / 93
22	Forest Protection No(3) ;Basic	8 / 2 / 93 - 26 / 2 / 93 3 weeks	30	25	"	F	
23	Forestry for Local Community Development No(5)	8 / 2 / 93 - 18 / 2 / 93 2 weeks	30	28	"	F.R	
24	Agroforestry No(4)	8 / 3 / 93 - 12 / 3 / 93 1 week	30	21	Public	L.P	
25	Agroforestry No(5)	26 / 4 / 93 - 30 / 4 / 93 1 week	30	30	"	L.P	16 / 404
26	Nursery Practices No(4)	3 / 5 / 93 - 27 / 5 / 93 4 weeks	30	23	In-service	F	
27	Forest Machinery No(4) ;Advanced	3 / 5 / 93 - 14 / 5 / 93 2 weeks	30	22	"	R.O	
28	Forest Road No(4);Basic	17 / 5 / 93 - 11 / 6 / 93 4 weeks	20	20	"	F.R	
29	Forestry for Local Community Development No(6)	31 / 5 / 93 - 4 / 6 / 93 1 week	30	30	Public	L.P	
30	Plantation Techniques No(4)	5 / 7 / 93 - 29 / 7 / 93 4 weeks	30	30	In-service	F.R	
31	Forest Protection No(4) ;Advanced	16 / 8 / 93 - 27 / 8 / 93 2 weeks	20	16	"	R.O	
32	Agroforestry No(6)	16 / 8 / 93 - 27 / 8 / 93 2 weeks	30	29	"	F.R	
33	Forestry for Local Community Development No(7)	6 / 9 / 93 - 17 / 9 / 93 2 weeks	30	23	"	F.R	
34	Nursery Practices No(5)	4 / 10 / 93 - 29 / 10 / 93 4 weeks	30	25	"	F.R	
35	Forest Machinery No(5);Basic	1 / 11 / 93 - 26 / 11 / 93 4 weeks	20	19	"	F.R	
36	Forest Protection No(5) ;Advanced	8 / 11 / 93 - 19 / 11 / 93 2 weeks	20	19	"	R.O	
37	Agroforestry No(7)	22 / 11 / 93 - 26 / 11 / 93 1 week	30	25	Public	L.P	
38	Plantation Techniques No(5)	6 / 12 / 93 - 31 / 12 / 93 4 weeks	30	30	In-service	F	
39	Forestry for Local Community Development No(8)	20 / 12 / 93 - 24 / 12 / 93 1 week	30	25	Public	L.P	
40	Forest Protection No(6) ;Basic	3 / 1 / 94 - 21 / 1 / 94 3 weeks	30	23	In-service	F	

CFDTC No.3

Sr No	Name of Course	Term of Training	Nos of Trainee		Object	Status	Fiscal Year
			Plan	Actual			
41	Forest Road Construction No(5); Advanced	3/1/94 - 11/2/94 6 weeks	30	17	In-service	R.O	93/94
42	Forestry for Local Community Development No(9)	14/2/94 - 18/2/94 1 week	30	22	Public	L.P	
43	Agroforestry No(8)	21/2/94 - 25/2/94 1 week	30	24	"	L.P	
44	Forest Protection No (7) ; Basic	7/3/94 - 25/3/94 3 weeks	30	27	In-service	F	20/479
45	Agroforestry No(9)	25/4/94 - 29/4/94 1 week	30	30	Public	L.P	94/95
46	Forest Machinery No(6) ; Advanced	2/5/94 - 13/5/94 2 weeks	30	23	In-service	R.O	
47	Forest Road No(6) ; Basic	2/5/94 - 27/5/94 4 weeks	20	20	"	F.R	
48	Nursery Practices No(6)	16/5/94 - 10/6/94 4 weeks	30	27	"	F	
49	Forestry for Local Community Development No(10)	6/6/94 - 10/6/94 1 week	30	30	Public	L.P	
50	Plantation Techniques No(6)	4/7/94 - 29/7/94 4 weeks	30	24	In-service	F.R	
51	Nursery Practices No(7)	18/7/94 - 12/8/94 4 weeks	30	29	"	F	
52	Agroforestry No(10)	8/8/94 - 19/8/94 2 weeks	30	27	"	F.R	
53	Forest Protection No(8) ; Advanced	15/8/94 - 28/8/94 2 weeks	20	19	"	R.O	
54	Forestry for Local Community Development No(11)	5/9/94 - 16/9/94 2 weeks	30	28	"	F.R	
55	Forest Machinery No(7) ;Basic	3/10/94 - 28/10/94 4 weeks	20	19	"	F.R	
56	Forest Protection No(9) ;Advanced	3/10/94 - 14/10/94 2 weeks	20	17	"	R.O	
57	Nursery Practices No(8)	17/10/94 - 11/11/94 4 weeks	30	26	"	F.R	
58	Agroforestry No(11)	21/11/94 - 25/11/94 1 week	30	25	Public	L.P	
59	Plantation Techniques No(7)	5/12/94 - 30/12/94 4 weeks	30	23	In-service	F	
60	Forest Road No(7);Advanced	5/12/94 - 30/12/94 4 weeks	30	18	"	R.O	

CFDTC No.4

Sr No	Name of Course	Term of Training	Nos of Trainee		Object	Status	Fiscal Year
			Plan	Actual			
61	Forestry for Local Community Development No(12)	5/12/94 - 9/12/94 1 week	30	21	Public	L.P	94/95
62	Forest Protection No(10) ;Basic	2/1/95 - 20/1/95 3 weeks	30	29	In-service	F	
63	Forest Road Construction No(8) ; Basic	6/2/95 - 3/3/95 4 weeks	20	17	.	F.R	
64	Forestry for Local Community Development No(13)	6/2/95 - 10/2/95 1 week	30	30	Public	L.P	
65	Agroforestry No(12)	13/2/95 - 17/2/94 1 week	30	30	.	L.P	
66	Forest Protection No(11) Basic	6/3/95 - 24/3/95 3 weeks	30	28	In-service	F	
67	Agroforestry Course No (13) [Near Hmawbi]	24/4/95 - 5/5/95 2 weeks	30	30	Public	L.P	95/95
68	Nursery Practices No (9)	8/5/95 - 2/6/95 4 weeks	30	25	In-service	F ; 24 F.R ;1	
69	Forest Machinery No (8) ; Advanced	8/5/95 - 19/5/95 2 weeks	30	21	In-service	R.O	
70	Forestry for Local Community Development No (14) [Dry Zone]	5/6/95 - 16/6/95 2 weeks	30	30	Public	L.P	
71	Plantation Techniques No (8)	3/7/95 - 28/7/95 4 weeks	30	27	Inservice	F.R	
72	Nursery Practices No (10)	17/7/95 - 11/8/95 4 weeks	30	29	Inservice	F	
73	Agroforestry No (14), [Mangrove Zone]	7/8/95 - 18/8/95 2 weeks	30	27	Public	L.P	
74	Forest Protection No (12) ; Advanced	21/8/95 - 1/9/95 2 weeks	20	19	Inservice	R.O	
75	Plantation Techniques No (9)	4/9/95 - 29/9/95 4 weeks	30	30	Inservice	F	
76	Forestry for Local Community Development No (15) [Near Hmawbi]	11/9/95 - 22/9/95 2 weeks	30	30	Public	L.P	
77	Forest Protection No (13) ; Advanced	2/10/95 - 13/10/95 2 weeks	20	16	Inservice	R.O	
78	Forest Machinery No (9) ; Basic	2/10/95 - 27/10/95 4 weeks	20	20	Inservice	F.R	
79	Nursery Practices No (11)	16/10/95 - 10/11/95 4 weeks	30	25	Inservice	F.R	
80	Agroforestry No (15). [Dry Zone]	17/11/95 - 27/11/95 2 weeks	30	29	Public	L.P	

CFDTC No.5

Sr No	Name of Course	Term of Training	Nos of Trainee		Object	Status	Fiscal Year
			Plan	Actual			
81	Forestry for Local Community Development No (16), [Mangrove Zone]	11/12/95 - 22/12/95 2 weeks	30	26	Public	L.P	95 / 96
82	Forest Protection No (14); Basic	1/1/96 - 19/1/96 3 weeks	30	28	Inservice	F	
83	Plantation Techniques No (10)	1/1/96 - 26/1/96 4 weeks	30	30	Inservice	F	
84	Agroforestry No (16) [Watershed Zone]	19/2/96 - 1/3/96 2 weeks	30	23	Public	L.P	
85	Forest Protection No (15); Basic	4/3/96 - 22/3/96 3 weeks	30	29	Inservice	F	
86	Forestry for Local Community Development No (17), [Watershed Zone]	18/3/96 - 29/3/96 2 weeks	30	30	Public	L.P	
87	Agroforestry No (17) [Hmawbi]	2/5/96 - 15/5/96 2 weeks	30	30	Public	L.P	96 / 97
88	Nursery Practices No (12)	6/5/96 - 31/5/96 4 weeks	30	26	Inservice	F	
89	Forest Machinery No (10); Advanced	6/5/96 - 17/5/96 2 weeks	30	21	Inservice	R	
90	Forestry for Local Community Development No (16)	17/6/96 - 28/6/96 2 weeks	30	31	Inservice	F;28 MTE; 3	
91	Plantation Techniques No (11)	26/6/96 - 18/7/96 4 weeks	30	22	Inservice	F.R	
92	Agroforestry No (18) [Mangrove Zone]	15/7/96 - 28/7/96 2 weeks	30	25	Public	L.P	
93	Nursery Practices No (13)	5/8/96 - 30/8/96 4 weeks	30	28	Inservice	F.R	
94	Forest Protection No (16); Basic	5/8/96 - 23/8/96 3 weeks	30	31	Inservice	F;28 MTE; 3	
95	Forestry for Local Community Development No (19) [Hmawbi]	19/8/96 - 30/8/96 2 weeks	30	30	Public	L.P	
96	Plantation Techniques No (12)	1/10/96 - 25/10/96 4 weeks	30		Inservice	F	
97	Forest Machinery No (11); Basic	1/10/96 - 25/10/96 4 weeks	20		Inservice	F.R	
98	Agroforestry No (19) [Dry Zone]	21/10/96 - 1/11/96 2 weeks	30		Public	L.P	
99	Forest Protection No (17); Advanced	4/11/96 - 15/11/96 2 weeks	20		Inservice	R	
100	Nursery Practices No (14)	2/12/96 - 27/12/96 4 weeks	30		Inservice	F	

Sr No	Name of Course	Term of Training	Nos of Trainee		Object	Status	Fiscal Year
			Plan	Actual			
101	Forestry for Local Community Development No (20)	16 / 12 / 96 - 27 / 12 / 96 2 weeks	30		Public	L.P	96 / 97
102	Forest Protection No (18); Advanced		20				
103	Plantation Techniques No (13)		30				
104	Agroforestry No (20)		30				
105	Forestry for Local Community Development No (21)		30				
106	Forest Protection No (19); Basic		30				

フォローアップ協力期間中の訓練実績 (1995.8 ~ 1996.7)

訓練コース		95.8~96.3		95.4~ 96.7		計	
		A	B	A	B	A	B
職員 訓練	1 造林技術	2	60	1	22	3	82
	2 苗畑実習	1	25	2	54	3	79
	3 森林保護 (Basic)	2	57	0	0	2	57
	4 森林保護 (Advanced)	2	35	0	0	2	35
	5 林業機械 (Basic)	1	20	0	0	1	20
	6 林業機械 (Advanced)	0	0	1	21	1	21
	7 地域開発林業	0	0	(1)	(31)	(1)	(31)
	8 アグロフォレストリー	0	0	0	0	0	0
小計		8	197	4	197	12	294
住民 訓練	1 地域開発林業	3	86	1	31	4	117
	2 アグロフォレストリー	3	79	1	30	4	109
	小計	6	165	2	61	8	226
合計		14	362	6	158	20	520

- 注：1 A：訓練回数、B：終了訓練生数
 2 訓練がフォローアップ期間にまたがるものは、本期間の訓練としてみなし本表に計上していない。
 3 地域開発林業及びアグロフォレストリーは1996年度より、各4コースのうち、各1コースを職員対象とすることが上記委員会で決まったため、職員訓練及び住民訓練の両コースに計上した

ミャンマー側だけで実施した訓練コース実績

No	訓練等名称	区分	期 間	出席者数	Status	備 考
1	Forest Officer (Advanced) Course No (4)	訓練	(12 weeks) 15/5 - 15/8, 1990	46	S.O & F.R B.Sc (For)	
2	Training for Trainers Course	訓練	(2 weeks) 10/9 - 21/9, 1990	33	CFDTC Staffs	
3	Forestry Induction Course No (1)	訓練	(8 weeks) 1/10 - 30/11, 1990	56	F.G	
4	Forestry Induction Course No (2)	訓練	(8 weeks) 1/1 - 28/2, 1991	46	F.G	
5	Forestry Science Research Congress	研究会議	(3 days) 12/3 - 14/3, 1991	多数	F.R.I F.D, CFDTC	
6	Forest Resource Administration Course No (1)	訓練	(2 weeks) 22/4 - 3/5, 1991	13	S.O & F.R B.Sc (For)	
7	Forestry Induction Course No (3)	訓練	(6 weeks) 4/6 - 25/7, 1991	49	F.G	
8	Forest Officer (Advanced) Course No (5)	訓練	(12 weeks) 24/9 - 13/12, 1991	49	F.R B.Sc (For)	
9	Forestry Induction Course No (4)	訓練	(8 weeks) 3/3 - 26/4, 1992	41	F.G	
10	Forestry Science Research Congress	研究会議	(2 days) 15/6 - 16/6, 1992	多数	F.R.I F.D, CFDTC	
11	Workshop on Conservation & Rehabilitation of Mangrove Resources in Myanmar	会議	(2 days) 17/12 - 19/12, 1992	多数	F.D F.R.I CFDTC	
12	Forestry Induction Course No (6)	訓練	(8 weeks) 11/1 - 5/3, 1993	36	F.G	
13	Post-Harvest Handling of Horticultural Crop	訓練	15/2 - 20/2, 1993	30	F.D A.D	Sponsored by Kinta Watershed Project
14	In-country Training Workshop on Project Formulation & Appraisal of Forestry Programmes & Project	訓練	22/2 - 26/2, 1993	30	M.O.F M.T.E F.D	Sponsored by N.F.M.I

No	訓練等名称	区分	期 間	出席者数	Status	備 考
15	Dendro-energy Production Course No(1)	訓練	(1 week) 22/3 - 26/3, 1993	22	F	
16	Forestry Extension & Utilization course No(1)	訓練	(2 weeks) 21/6 - 2/7, 1993	29	Dy. F. R	
17	Forest Resource Administration Course No(2)	訓練	(2 weeks) 3/8 - 13/8, 1993	14	S. O B. Sc (For)	
18	Forest Officer (Advanced) Course No(6)	訓練	(8 weeks) 6/9 - 5/11, 1993	61	F. R B. Sc (For)	
19	Forestry Science Reseach Congress	研究会議	(3 days) 18/10 - 20/10, 1993	多数	F. R. I F. D .CFDTC	
20	Forestry Induction Course No(6)	訓練	(8 weeks) 8/11 - 31/12, 1993	50	F. G	
21	Dendro-energy Production Course No(2)	訓練	(1 weeks) 24/1 - 28/1, 1994	22	F	
22	Watershed Management Course	訓練	(10 weeks) 1/2 - 9/4, 1994	25	R. O	Sponsored by Kinda Watershed Project
23	Training/Workshop on Elephant Conservation and Census Techniques	訓練	(1 week) 6/5 - 13/5, 1994	35	S. O R. O F. R	Sponsored by Asian Elephant Specialist Group
24	Training/Workshop on Management of Change and Creativity	訓練	(1 week) 25/7 - 29/7, 1994	24	D. G Dir. Dy. Dir.	Sponsored by UNDP
25	Forest Resource Administration Course No(3)	訓練	(2 weeks) 1/8 - 12/8, 1994	20	S. O	
26	Forest Officer (Advanced) Course No(7)	訓練	(8 weeks) 15/8 - 7/10, 1994	48	S. O: 3 R. O: 45	
27	Forestry Induction Course No(7)	訓練	(8 weeks) 3/10 - 25/11, 1994	50	F. G	
28	Participatory Development Workshop	訓練	(3 days) 23/11 - 25/11, 1994	49	UNDP STAFFS	UNDP
29	Management of Natural Teak Forests and Elephant Utilization	訓練	(10 days) 2/1 - 11/1, 1995	16	Trainees from Indonesia 10 Vietnam 5 Thailand 1	

No	訓練等名称	区分	期 間	出席者数	Status	備 考
30	Dendro-energy Production Course No(3)	訓練	(1 weeks) 13/3 - 17/3, 1995	(30)	F	

Status Column :

D.G=Director General, Dir.=Director, Dy.Dir=Deputy Director, S.O= Staff Officer, R.O=Range Officer (Former name was Forest Ranger), F.R=Forest Ranger (Former name was Dy.Forest Ranger), F=Forester, F.G=Forest Guards

No.	Name of training course (Non-TCP)	Type	Periods	Number of Trained	Status	Remarks
31.	Forest extension and Utilization No.(3)	Training Course	(2 weeks) 19.6.95	25	F.R	
32.	Forest Resource Administration No.(4)	Training Course	(2 weeks) 7.8.95	14	S.O	
33.	Advance Forest Officer No. (8)	Training Course	(4 weeks) 18.9.95	44	S.O	
34.	Induction No. (8)	Training Course	(4 weeks) 7.11.95	46	F.G	
35.	Forest Road (Advanced) No.(9)	Training Course	(2 weeks) 4.12.95	24	S.O	
36.	Forest Road (Basic) No.(10)	Training Course	(3 weeks) 4.2.96	18	F.R	
37.	Dendro Energy No. (4)	Training Course	(1 week) 11.3.96	26	F	
38.	Forest extension & Utilization No. (4)	Training Course	(2 weeks) 3.6.96	26	F.R	
39.	Forest Resource Administration No. (5)	Training Course	(2 weeks) 26.7.96	15	S.O	
40.	Advanced Forest Officer No. (9)	Training Course	(4 weeks) 2.9.96	28	S.O	

Status Column :

D.G= Director General, Dir.=Director, Dy.Dir= Deputy Director, S.O= Staff Officer, R.O= Range Officer (Former name was Forest Ranger), F.R.=Forest Ranger(Fonner name was Dy. Forest Ranger), F=Forester, F.G= Forest Guards

Equipment lists of each section supported by JICA

According to above mentioned subject, the lists of equipments (Cost above US\$ 200) supported by JICA for CFDTIC are as follows:

1. Training Section	-	2 pages
2. Nursery Section	-	1 page
3. Supporting Section		
* Drawing Room	-	1 page
* Laboratory Room	-	1 page
* Printing Room	-	1 page
* Photo Room	-	1 page
* Auto Visual Room	-	1 page
4. Workshop	-	2 pages
5. Store	-	1 page
		<u>11 pages</u>
		=====

Remarks

Use (frequency in use)

Charge (condition by care)

A: almost everyday

A: kept in good care and condition

B: 1-3 times a week

B: can use without special problem

C: in a specially fixed season only

C: need repairing for use

D: 3-11 times a year

D: difficult to use

E: not in use by special reason

Training Section , U Win Maw (In charge)

11th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
1993 , April	1	Display (Campal, 14 inches)	2	2	Computer Room	A	A	Replaced by new model
"	2	Display (Toshiba , 14 inches)	1	1	"	-	A	"
"	3	CPU (Toshiba, 386 SXJ-3100 ZS)	1	1	"	-	A	"
"	4	CPU (Memory, 386/33, DX 2166)	3	3	"	A	-	
"	5	Printer (Epson LQ-1170, P 641 A)	3	3	"	A	-	
1993	6	Colour TV (Panasonic 14 inches)	1	1	"	B	-	
"	7	VCR (Sony , SLV-X 800)	2	2	"	B	-	
1994 , August	8	Printer (Canon BJ-330, K 10080)	1	1	"	A	-	
"	9	Copier Machine (Canon , NP 3325)	1	1	"	A	-	
1995 , October	10	Display (Gold-star 14 inches, 1461 D)	2	2	"	A	-	
"	11	Display (Gold-star 14 inches, 1520 DM)	1	1	"	A	-	
"	12	Display (Gold-star 17 inches, 1727)	1	1	"	A	-	
"	13	CPU (Green, DX4 - 100)	2	2	"	B	-	
"	14	Scanner (Scanjet 3 C. Hewlett packard)	1	1	"	A	-	
1996 . May	15	Copier Machine (RICOH FT 4490)	1	1	"	-	-	

Training Section, U Hla Win Maung (In charge)

6th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
1990	1	Honda Generator (EM.2200 X)	3	3	Store	A	A	
1989	2	Freezer (FUJIMAX - FRI 280)	1	1	Canteen	A	D	

Equipment List of CFDIC

Nursery Section, U Ohn Lwin (In charge)

11th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
1989	1	Kubota Diesel Tractor (M-6030 DT) Attachment of tractor (2-8)	1	1	Nursery	A	B	Under work shop
	2	Disk Plow	2	2	do-	C	A	
	3	Disk Harrow	2	2	do-	D	A	
	4	Trencher (TT 4102 FR-2)	1	1	do-	E	A	Work shop
	5	Grader Blade	1	1	do-	D	A	
	6	Rotary Cutter (MRC 150 C)	1	1	do-	C	C	Work shop
	7	Dump Trailer	1	1	do-	B	C	Work shop
	8	Seed Sprayer (BO 360)	1	1	do-	E	A	Work shop
	9	Rotary Mower (HRM 0910)	1	1	do-	B	C	
	10	Soil Crusher (Blender Type) 316	1	1	do-	C	A	
	11	Soil Siever (RC-100 A)	1	1	do-	B	B	
	12	Soil Mixer (KPM 4)	1	1	do-	C	B	
	13	Pot Making Line (L-45 A) Placo Co. Ltd.	1	1	do-	C	B	
	14	Prefabricated Cooling Unit (Remoto Type, Sanyo)	1	1	do-	D	A	
	15	Straight Roller Conveyor (Sand)	4	4	do-	E	A	
	16	Plant Cutter (CX-15 R)	1	1	do-	B	C	
	17	Door Refrigerator (SR-1001 N)	1	1	do-	A	A	Office

Drawing Section , U Ohn Lwin (In charge)

6th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
	1	Binocular (GZH -820)	8	8	Drawing Room	D	A	
	2	Bi-Stereoscope (CONDO - T-22)	1	1	"	D	A	
	3	Digital Planimeter (PLANIX -7)	14	12	"	B	C	Show Room, Mr. Morita
	4	Drafting Table Set (LF-20)	30	30	"	A	A	
	5	Hypsometer (BL-6)	14	14	"	B	A	
	6	Hand Level (NO-4350)	11	11	"	B	A	
	7	Level Tracon (LS-25)	10	7	"	A	C	Show Room, U Than Htay, U Win Maw
	8	Mirror Stereoscope (NS-3)	10	10	"	B	A	
	9	Reflection Stereoscope (MS-27)	10	9	"	B	A	Show Room
	10	Planimeter (Manual) (KP-3)	50	49	"	B	A	Show Room
	11	Transit Compass (10 C)	10	9	"	B	A	Show Room
	12	Auto Level (B 20)	2	1	"	D	A	Show Room
	13	Tracing Table	2	2	"	A	A	
1995/11	14	Portable Photometer (Model 2703)	2	2	"	D	A	
1995/11	15	Auto Portable Photometer (BS-80 TS)	1	1	"	D	A	

Laboratory Section , U Ohn Lwin (In charge)

13th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
1989	1	Biological Microscope (Nikon, S2, D-S)	1 Set	1 Set	Laboratory (Bio)	C	B	
"	2	Microscope SE	13 Sets	13 Sets	Laboratory (Bio)	B	B	
"	3	Stereoscopic Zoom Microscope (SMZ-2)	13 Sets	13 Sets	Laboratory (Bio)	B	B	
"	4	Precision Electronic Balance	2 Pcs	2 Pcs	Laboratory (Bio-1, Che-1)	B	B	
"	5	Germinator	3	3	Laboratory (Bio)	B	B	
"	6	Germinator (Simple Water Bath Type)	1	1	Laboratory (Bio)	B	B	
"	7	Rotary Microtome	1	1	Laboratory (Bio)	C	B	
"	8	Hot Air Sterilizer	1	1	Laboratory (Bio)	B	B	
"	9	Seed Sterilizer	1	1	Laboratory (Bio)	E	B	
"	10	Low Temperature Incubator	1	1	Laboratory (Bio)	A	B	
"	11	Auto Clave	2	2	Laboratory (Preparation)	B	B	
"	12	Laboratory Washer	2	2	Laboratory (Preparation)	D	B	
"	13	Dalton Clean Bench	1	1	Laboratory (Preparation)	B	B	
"	14	Growth Cabinet	1	1	Laboratory (Bio)	D	C	
"	15	Water Bath	4	4	Laboratory (Bio)	D	B	
"	16	Bag Sealer (Fuji Impulse Sealer)	1	1	Laboratory (Chemistry)	C	B	
"	17	pH Meter	8	8	Laboratory (Chemistry)	D	B	1 set in show room
1994	18	Automatic Water Still	1	1	Laboratory (Chemistry)	B	B	
1994	19	Recipro Shaker TS-12 H	1	1	Laboratory (Chemistry)	C	B	
1989	20	Centrifuge	1	1	Laboratory (Chemistry)	C	B	
"	21	Moisture Meter	1	1	Laboratory (Chemistry)	D	B	
"	22	Fume Hood	1	1	Laboratory (Chemistry)	C	B	
"	23	Micro Kjeldahl Nitrogen Determination Apparatus	1	1	Laboratory (Chemistry)	C	B	
"	24	Refrigerator-Freezer	2	2	Laboratory (Chemistry)	A	B	
1994	25	Absorption Filtration Apparatus	1 Pce	1 Pce	Laboratory (Chemistry)	C	B	
"	26	Soil Hydrometer	5 Pcs	5 Pcs	Laboratory (Chemistry)	C	B	2 Damaged
1992	27	Herbarium Dryer with Transformer	1 Unit	1 Unit	Laboratory (Bio)	E	B	
1992	28	Herbarium Press with transformer	2 Units	2 Units	Laboratory (Bio)	E	B	
1992	29	Insect Collector, MC-7100 with Madara call, 8 pcs	4 Sets	4 Sets	Laboratory (Bio)	D	B	1 Cap lost
1992	30	Insect Net Box 80x60x60	1 Unit	1 Unit	Laboratory (Bio)	B	A	
1994	31	Soil permeability Test Apparatus	4 Sets	4 Sets	Laboratory (Chemistry)	B	B	

Printing Section, U Htin Win (In charge)

11th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Change	
1990	1	Printing Machine (612 CD)	1	1	Printing	D	A	
1990	2	Plate Making Machine (PM-45)	1	1	"	D	A	
1990	3	Collating Machine (AC-160)	1	1	"	B	A	
1990	4	Book Binding Machine (BQ-27II)	1	1	"		C	Damage
1990	5	Plate Making Camera (Design Scope Type 3N)	1	1	"	D	A	
1990	6	Developing Machine (Super Line Processor)	1	1	"	D	A	
1990	7	Washing and Drying Machine (IWD-60)	1	1	"	D	A	
1990	8	Paper Folding Machine (350- N)	1	1	"	D	A	
1990	9	Paper Cutting Machine (PC-45)	1	1	"	A	A	
1990	10	Auto Duplicator (8700)	2	2	"	A	A	
1990	11	Stencil Making Machine (FAX- 8300)	2	2	"	A	A	
1990	12	Electronic Typewriter (AP-800)	2	2	"	B	A	1 Damage
1990	13	Color TP Maker Kit (4550-3M)	1	1	"	B	A	
1990	14	Copying Machine (FT-4480)	2	2	"	A	A	1 Damage
1990	15	Binding Machine (AI-12)	1	1	"	A	A	
	16	Electronic Typewriter (AP-8000)	1	1	"	B	A	
1995/12	17	Copy Printer (Rex. Rotary 1250)	1	1	"	D	A	
1993	18	Blue Print (PD 521 AE)	1	1	"	D	A	

Photo Section, U Htin Win (In charge)

11th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install		Condition		Remarks
			Provided	Balance	Install	Use	Charge		
1989/90	1	Manual Camera (CANON F-1)	3	3	Photo	A	A		
1992/93	2	Auto Focus Camera (NIKON RD-2)	3	3	"	B	A		
1989/90	3	Color Enlarger (DURST -AC-707)	1	1	"	B	A		
1993/94	4	Film Processor (AIL-1000) JOBO	1	1	"	B	A		
1993/94	5	Colour print processor with dry module CP-31/CP-31 WD	1	1	"	B	A		
1989/90	6	Slide Processor panacopy KV - 3500	1	1	"	B	A		
1992/93	7	Copy Stand (KING / CANON -BR-4)	2	2	"	D	A		
1989/90	8	Stroboscope - lighting kit	1	1	"	B	A		
1996	9	Aluminium case for Camera (VANGUARD VGC-6301).	1	1	"	D	A		
1989/90	10	Refrigerator (TOSHIBA, GR-335 ESCA)	1	1	"	A	A		
1992/93	11	Exposure Meter (SEKONIC digit master)	1	1	"	D	A		
1993/94	12	Flash-gun with battery pack (NATIONAL-480-SG)	1	1	"	B	A		
1994/95	13	Flash-gun (STARBLITZ-3600BTZ)	2	2	"	D	A		
1989/90	14	Color processor (RCP-20-DURST)	1	1	"	D	D	Damage	
1989/90	15	Film Processor (DUSTY FP-8)	1	1	"		D	"	
1989/90	16	Automatic voltage regulator (ACHE-1.KH)	2	2	"	A	A		
1989/90	17	Automatic voltage regulator (ACE-1.KKH)	2	2	"	A	A		
1993/94	18	Slide Duplicator (CANON)	1	1	"	A	A		
1992/93	19	Automatic Bellows (CANON)	1	1	"	D	A		

Audio Visual Section , U Htin Win (In charge)

11th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
1990	1	33" TV (National)	5	5	Seminar	A	A	
1990		Video Monitor (TC-2000)	4	4	A/V	A	A	
1990	2	Video Tape Recorder (AG-6500)	3	3	A/V	A	A	
1990		Video Tape Recorder	2	2	T-Hall	B	A	
1990		Video Tape Recorder (G-6500)	5	5	Seminar	A	A	
1990	3	Panasonic CCD Camera (WV-2000c)	1	1	A/V	B	A	
1992	4	Camera M-2000	1	1	A/V	A	A	
1992	5	Video Palmcorder PV-10 dpx	1	1	A/V	B	A	
1990	6	Cassette Tape Deck (Technic)	1	1	A/V	A	A	
1990		Cassette Tape Deck (Technic)	5	5	Seminar	B	A	
1990		Cassette Tape Deck (Technic)	1	1	T-Hall	B	A	
1990	7	Cassette Recorder (WX-800 AC)	1	1	A/V	B	A	
1994		Cassette Recorder (WX-800 AC)	1	1	A/V	B	A	
1992	8	Radio Cassette Recorder (RCCX-7BU)	3	3	A/V	B	A	
1990	9	Generator EX-1000	1	1	A/V	B	A	
1992	10	Voltage Stabilizer (Volt-ACE)	4	4	A/V	B	A	
1990	11	Audio Mixer	5	5	Seminar	B	A	
1990	12	Audio Mixer (WR-21)	2	2	A/V	A	A	
1994	13	Stereo Console (WRS-4412/g)	1	1	A/V	B	A	
1990	14	Editing Controller (AG-A-750)	1	1	A/V	A	A	
1993	15	Video Mixer (Special Effects)	1	1	A/V	A	A	
1994	16	Digital (A/V Mixer)WJ-NX-12	1	1	A/V	A	A	
1994	17	Cassette Tape Deck (RS-TR-333)	1	1	Conference	B	A	
1995	18	Conference System (SR-D-700)	1	1	"	B	A	US \$ 14065
1991	19	Opaque Projector (EP-7000)	1	1	"	A	A	
1993		Opaque Projector (EP-7000)	1	1	A/V	B	A	
1990	20	Amplifier Hi-power (WR-740N)	1	1	A/V	B	A	
1994		Amplifier Hi-power (WR-740N)	1	1	A/V	B	A	
1990	21	Video Projector	1	1	T-Hall	B	A	
1990	22	Slide Projector (252-ALC-ELMO)	5	5	A	A	A	
1990		Slide Projector (252-ALC-ELMO)	2	2	T-Hall	B	A	
1990	23	Overhead Projector	4	4	A	A	A	
1990	24	Tripod with dolly	1	1	A/V	B	A	

Work shop, U Myint Thin Khaing (In charge)

6th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
1988	1	Adjustable Reamer Set (Banzai, PL-1S)	1	1	Work shop	C	A	
"	2	Air Compressor (Iwata, SP-37 PB)	1	1	"	A	B	
"	3	Air Compact Wrench (Banzai, AW-1600P, 2000, 320)	1	1	"	E	A	
"	4	Double Action Sander (Banzai, 905-BD)	1	1	"	D	B	
"	5	Arc Welder (Hitachi, ATSS-300)	1	1	"	B	B	
"	6	Battery Quick Charger (Okugda, TP-700)	1	1	"	C	B	
1992	7	Chain Block (Maruma, NI-0406)	1	1	"	C	B	
1989	8	Compression Gauge Dfcsel (Banzai, DG-7S)	1	1	"	C	A	
"	9	Compression Gauge Gasoline (Banzai, G-25 B)	1	1	"	C	A	
"	10	Cylinder Gauge Set (Banzai, BC-10, 18, 35, 58)	1	1	"	C	A	
"	11	Drilling Machine (Hitachi, B-13)	1	1	"	B	B	
"	12	Electric Bench Grinder (Hitachi, GBK-2)	1	1	"	B	B	
"	13	Engine Tune Up Tester (Banzai, DACS-1 V)	1	1	"	C	B	
"	14	Garage Jack (Banzai, M-150M, 500M, 1000M)	1	1	"	B	B	
"	15	Gas Welding Tool Set (Banzai, GS-10)	1	1	"	E	B	
1989	16	Grease Lubricator (Banzai, SKR-57)	1	1	"	C	B	
"	17	Hot Water Cart Washer (Banzai, CWH-780 A)	1	1	"	A	B	
"	18	Hydraulic Press (Banzai, HP-50 E)	1	1	"	C	B	
"	19	Mechanic Tool Set (Banzai, CU-450)	2	2	"	A	B	
"	20	Mechanic Tool Set (Banzai, CU-60)	3	3	"	C	A	
"	21	Nozzle Tester (Banzai, DT-60)	1	1	"	C	B	
1992	22	Nozzle Tester (Sanyo, SNT-500)	1	1	"	C	B	
"	23	Oil Bucket Pump (Banzai, STB-67)	1	1	"	C	B	
"	24	Oil Lubricator (Banzai, SGR-57)	1	1	"	C	B	
"	25	Outside Micrometer Calliper (Mitutoyo, 152.5 MB)	1	1	"	C	A	
"	26	Paint Spray Gun (Banzai, Y 71 - 2S, 3S)	1	1	"	C	B	
"	27	Parts Washing Stand (Banzai, WS-25)	1	1	"	C	B	
"	28	Radiator Cap Tester (Banzai, RCT-2A)	2	2	"	C	A	
"	29	Screw Plate (Banzai, M 320)	1	1	"	C	B	
1992	30	Silicon High Rate Charger (Dengen, HR-245)	1	1	"	C	B	
1989	31	Socket Wrench Set (Banzai, 3S 128 M)	3	3	"	C	A	
"	32	Torque Wrench Set (Tohnichi, 1300 F, 460 F, 920 F, 2800 F, 450 QL, 900, 4200, 18800, 2800QL)	1	1	"	C	A	
"	33	Universal Puller Set (Banzai, UP 3000)	1	1	"	C	A	
1989	34	Vernier Calliper Set (Banzai, BSC-15, 20, 30)	2	2	"	C	A	
1994	35	W-Housing Nut Wrench (Banzai, HW-6+0)	1	1	"	C	A	
1991	36	Wire Cutter (Banzai, C-16)	1	1	"	C	A	
"	37	Wire Cutter (Felco, C-7)	1	1	"	C	A	
1994	38	Saw Chain Grinder (Oregon, 511 A)	1	1	"	C	A	

LIST OF VEHICLES

Work shop, U Myint Thein Khaing (In charge)

6th September, 1996

Provided Fiscal Year & Month	No	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
1989	1	Truck Crane (Isuzu , FTS-12 E)	1	1	Workshop	B	B	
"	2	Dump Truck (Isuzu , FSS-12 E)	1	1	"	B	B	
1992	3	Dump Truck (Isuzu , FSS-12 E)	1	1	"	B	B	
1991	4	Patrol Jeep (Nissan , WRLGY 60 LSC)	2	2	"	A	B	
"	5	Rosa Bus (Mitsubishi, BE 494 FLMDH)	2	2	"	B	B	
"	6	Pajero (Mitsubishi, V 14 V-NDL)	3	3	"	A	B	
"	7	Mini Bus L300 (Mitsubishi, F15 WHLZL)	1	1	"	A	B	
1995	8	Mini Bus Hiace (Toyota, LH 114L-BRMRS)	1	1	"	A	B	
"	9	Dyna-200 (Toyota , BU 60 L-MDB)	1	1	"	A	B	

Store _____ (Section) U. Than Naing (Name of person in charge)

Provided Fiscal Year & Month	No.	Name (Maker, Ability, Standard)	Quantity		Place of Install	Condition		Remarks
			Provided	Balance		Use	Charge	
1994-95	1.	Cover Sheets	5 sets	5 sets	Store	E	A	
July, 1994	2.	Chain Saw (Vs-750Evl Parts Set)	1 set	1 set	Store	D	B	
July, 1994	3.	Earth Auger (A5 Parts Set)	1 set	1 set	Store	D	B	
July, 1994	4.	Brush Cutter (R 20 Parts Set)	1 set	1 set	Store	D	B	Used for demonstration to the Trainees

カウンターパート等配置実績

Central Forestry Development Training Centre
Assignment of Counterparts to Experts in the respective fields

Sr. No.	Myanmar Counterpart		Japanese Expert	
	Field	Name	Field	Name
1.	Project Director	U Mehm Ko Ko Gyi (Director, Training and Research Development Division)	Team Leader	Mr. Kazuya Ando
2.	Deputy Project Director	U Saw Eh Dab (Principal of CFDTIC)		
3.	Training Method	U Khin Maung Hla (S.O.) U Hla Win Maung (S.O.)	Training Method	Mr. Kazuya Ando
4.	Silviculture	U Win Myint (R.O.)	Silviculture	Mr. Eiji Yanagisawa
5.	Nursery	U Myint Thein Khaing (S.O.) U Ohn Lwin (R.O.)	Nursery	Mr. Eiji Yanagisawa
6.	Forest Management	U Htin Win (S.O.)	Forest Management	Mr. Eiji Yanagisawa
7.	Forest Protection	U Bo Ni (S.O.)	Forest Protection	Mr. Eiji Yanagisawa
8.	Forest Machinery	U Thar Htay (S.O.) U Khin Maung Myint (J.E.)	Forest Machinery	Mr. Ikuo Mabuchi
9.	Forestry for Local Community Development	U Soe Naing (S.O.) U Than Htay (R.O.)	Forestry for Local Community Development	Mr. Eiji Yanagisawa
10.	Agroforestry	U Win Maw (S.O.) U Than Naing (R.O.)	Agroforestry	Mr. Eiji Yanagisawa
11.	Liaison Officer	U Phone Lwin (R.O.)	Liaison Officer	Mr. Kiyomi Suzuki

1.2 Allocation Table of Japanese Experts and Counterparts
As of September, 1996

Field	Counterparts			Experts	
	Name	Status	Term	Name	Term
Project Management	U Tin Nyunt	Project Director	9/1990-1/1992	Mr. Shinji Tanabe	8/1990-8/1993
	U Kyaw Myint	"	1/1992-7/1993	Mr. Tadashi Furumoto	7/1993-7/1995
	U Thein Lwin	"	7/1993-1/1994	Mr. Kazuya Ando	7/1995-
	U Tin Hla	"	1/1994-7/1995		
	U Mg Mg Aye	"	7/1995-5/1996		
	U Meln Ko Ko Gyi	"	6/1996-		
	U Sann Lwin	Dy. Project Director	8/1990-4/1994		
	U Saw Eh Dah	"	4/1994-		
	U Saw Eh Dah	Asst. Project Director	1/1991-4/1994		
	U Aung Khin U Tin Nyunt	Advisor	7/1994-6/1995 4/1993-6/1994		
Training Method	U Kyaw Soe Khine	Main Counterpart	8/1990-2/1992	Mr. Fumiyoshi Suzuki	8/1990-8/1992
	U Aung Than Myint	"	8/1992-12/1994	Mr. Makoto Koyama	8/1992-7/1995
	U Khin Maung Hla	"	1/95-	Mr. Kazuya Ando	7/1995-
	U Hla Win Maung	"	8/95-		
	U Min Htoo Lwin	Asst. Counterpart	8/1990-6/1993		
	U Hla Win Maung	"	3/1994-7/1995		
Silviculture	U Chit Paw	Main Counterpart	8/1990-6/1995	Mr. Tetsuya Kurata	8/1990-8/1993
	U Win Myint	"	7/1995-	Mr. Kazuyuki Morita	7/1993-7/1996
	U Kyaw Lwin	Asst. Counterpart	8/1990-3/1991		
	U Win Mylat	"	8/1990-6/1995		
	U Min Thant Zin	"	7/1994-5/1996		
Nursery Practices	U Khin Maung Hla	Main Counterpart	8/1990-6/1995	Mr. Tetsuya Kurata	8/1990-8/1993
	U Win Myint	"	7/1995-8/1996	Mr. Kazuyuki Morita	7/1993-7/1996
	U Myint Thein Khaing	"	9/1996-		
	U Ohn Lwin	Asst. Counterpart	8/1990-		
	U Nyi Nyi Kyaw	"	8/1990-10/1995		
	U Win Myint	"	3/1992-6/1995		

Field	Counterparts			Experts	
	Name	Status	Term	Name	Term
Forest Management	U Myat Soe	Main Counterpart	8/1990-5/1994	Mr. Fuminori Miyatake	8/1990-8/1992
	U Thar Htay	"	6/1994-7/1995	Mr. Akibiko Tajiri	8/1992-7/1995
	U Htin Win	"	8/1995-	Mr. Eiji Yanagisawa	7/1995-
	U Phone Lwin	Asst. Counterpart	8/1990-2/1991		
	U Htin Win *U San Thwin U Nyi Nyi Kyaw	" " "	8/1990-7/1995 10/1994- 11/1995-8/1996		
Forest Protection	U Myat Soe	Main Counterpart	8/1990-6/1993	Mr. Fuminori Miyatake	8/1990-8/1992
	U Bo Ni	"	6/1993-	Mr. Akihiko Tajiri	8/1992-7/1995
	U Phone Lwin	Asst. Counterpart	8/1990-7/1996	Mr. Eiji Yanagisawa	7/1995-
Forest Road	U Tin Aung	Main Counterpart	8/1990-2/1992	Mr. Takashi Sunayama	8/1990-8/1993
	U Ye Htut	"	2/1992-7/1995	Mr. Ikuo Mabuchi	7/1993-
	U Ye Htut	Asst. Counterpart	8/1990-2/1992		
	U Khin Maung Te U Myint Thein Khaing	" "	8/1992-3/1993 6/1994-8/1996		
Forest Machinery	U Thar Htay	Main Counterpart	8/1990-	Mr. Takashi Sunayama	8/1990-8/1993
	U Aung Than Myint	Asst. Counterpart	8/1990-8/1992	Mr. Ikuo Mabuchi	7/1993-
	U Khin Maung Te	"	2/1991-7/1992		
	U Kblu Maung Mylat		8/1992-		
Forestry for Local Community Development	U Soc Naing	Main Counterpart	8/1990-	Mr. Fumiyoshi Suzuki	8/1990-8/1992
	U Than Htay	Asst. Counterpart	8/1994-	Mr. Makoto Koyama Mr. Eiji Yanagisawa	8/1992-7/1995

Field	Counterparts			Experts	
	Name	Status	Term	Name	Term
Agroforestry	U Soe Naing	Main Counterpart	8/1990-3/1992	Mr. Fumiyoshi Suzuki	8/1990-8/1992
	U Win Maw	"	3/1992-	Mr. Akihiko Tajiri	8/1992-7/1995
	U Win Maw	Asst. Counterpart	2/1991-3/1992	Mr. Eiji Yanagisawa	7/1995-
	U Than Naing	"	8/1992-		
	*U Sann Win	"	8/1992-		
Liaison	U Aung Din	Liaison Officer	8/1990-3/1993	Mr. Shingo Onishi	8/1990-9/1995
	U Aung Than Myint	"	4/1993-8/1993	Mr. Kiyomi Suzuki	8/1995-
	U Thein Zaw Win	"	9/1993-6/1994		
	U Hla Win Maung	"	7/1994-10/1994		
	U Thein Zaw Win	"	11/1994-7/1996		
	U Phone Lwin	"	8/1996-		

* Studying in Japan

Supporting Section

Date-1-9-96.

Section	S.O	R.O	F.R	F	F.G	L.A	P.L	D.W	Total
AV	1	-	-	-	-	-	1	3	5
Slide	"	-	-	1	-	-	-	-	1
Printing	"	-	-	1	1	-	1	1	4
Chemistry Lab	-	1	-	-	-	2	1	-	4
Biology Lab	-	"	-	-	-	1	-	1	2
Library	-	"	-	-	-	1	-	1	2
Total									18

Supporting Staff

Sr. No.	Section	Name	Status	Total
1	AV Section	Daw Myint Myint Khin	P.L	4
		U Tun Lin Zaw	D.W	
		U Myo Min	D.W	
		Daw Lei Lei Win	D.W	
2	Slide	U Khin Mg Hla	F	1
3	Printing	U Laing Min Thein	F	4
		U Ye Kyaw Thu	F.G	
		Daw Thin Thin Kyu	P.L	
		Daw Thuzar Thein Min	D.W	
4	Chemistry Lab	Daw Khin Lay That	L.A	3
		Daw Aye Min Than	L.A	
		Daw Khin Ohn Myint	P.L	
5	Biology Lab	Daw Deliver Htwe	L.A	2
		Daw Toe Toe Aung	D.W	
6	Library	Daw Aye Aye Mon	L.D.C	2
		Daw Mya Mya Aye	D.W	

S.O = Staff Officer, R.O = Range Officer, F.R = Forest Ranger, F = Forester ,
 F.G=Forest Guard, L.A= Laboratory Assistant, P.L= Permanent Labour, D.W = Daily
 Wages.

3c-c:dai

**Strength of the Staff at Central Forestry
Development Training Centre**

Fiscal Year.		
Status	1996/ 1	1996/ 9
Deputy Director	1	1
Staff Officer	9	9
Range Officer	12	10
Forest Ranger	2	1
Forester	8	7
Forester Guard	15	15
Technical Staff Sub Total	47	43
Clerical Staff	14	10
Driver and Other Supporting Staff	45	27
Sub Total	49	37
Total	96	80

作成教材一覽

The list of teaching material registered at the 13th registration committee meeting

Field	Type	Title	Volume	Editor	Registered
Training Method	Book	Training curriculum (M)	20 pp	Mr.F.Suzuki	P- 3/96(BM)
Social Forestry	Book	Preliminary socio- economic survey on Taung-ya Farmers Socio-economic survey on villages adjacent to the training forest Socio-economic analysis of ADA participants	48 pp	Dr.S.Tsuru	P-26-27-28/96(BM)
	Book	Report on 95 socio- economic survey on the ADA participants	38 pp	Dr.S.Tsuru	P-47/96(BM)
Silviculture	Book	Explanatory text of soil survey in C.F.D.T.C training forest	23 pp	Dr.K Kawamura	P-4/96(BM)
	Book	Principles of safe thinning operation	19 pp	Mr.T.Kurata	P-5/96(BM)
	Book	Notes on Field survey of forest soil	20 pp	Mr.T.Kurata	P-6/96(BM)
	Book	On stand structure of some types of forest in C.F.D.T.C training forest	51 pp	Dr.T.Kishimoto	P-30/96(BM)
	Book	Note of mangrove forest.	86 pp	Dr.T.Nakasuga	P-49/96(BM)
Nursery	Book	Seed orchard	14 pp	Mr.K Kawamura Mr.T.Kurata	P-7/96(BM)
	Book	Vegetative propagation methods in forestry	36 pp	Mr.K Kawamura Mr.T.Kurata	P-8/96(BM)
	Book	Biotechnology in forestry	31 pp	Dr.T.Sato	P-50/96(BM)
Forest Management	Book	Compass survey	21 pp	U Saw Eh Dah	P-31/96(BM)
	Book	Stand survey by silt board	25 pp	Mr.F.Miyatake	P-11/96(BM)
	Book	Aerial photography	24 pp	Mr.A.Tajiri	A-12/96(BM)
	Book	Some topics on the computer utilization for forestry	53 pp	Mr.M.Sano	P-51/96(BM)
	Book	Stem analysis	21 pp	Mr.A.Tajiri	P-54/96(BM)
	Book	Interim report of observation plot in the training forest	28 pp	Mr.A.Tajiri	P-55/96(BM)
Forest Protection	Book	Insect and importance of insects towards forests	152 pp	Dr.T.Gotoh Mr.F.Miyatake	P-15/96(BM)
	Book	Sampling in insects Pests management	33 pp	Dr.T.Gotoh	P-32/96(BM)
Forest Road	Book	Forest road survey	32 pp	U Saw Eh Dah	P-34/96(BM)
	Book	Designing forest road	23 pp	Mr.Y.Fujimoto	P-35/96(BM)
Forest Machinery	Book	Chain saw operation manual	28 pp	Mr.T.Sunayama Mr.I.Mabuchi	P-40/96(BM)
	Book	Farm tractor operation manual	23 pp	U Thar Htay Mr.I.Mabuchi	P-41/96(BM)
	Book	Instruction manual for instructor (How to teach operation of Tractor	29 pp	Mr.I.Mabuchi	P-42/96(BM)
	Book	Instruction manual for instructor (How to make working plan)	17 pp	Mr.I.Mabuchi	P-43/96(BM)
	Book	Workshop tools and equipments	39 pp	Mr.I.Mabuchi	P-56/96(BM)
	Book	The work of bulldozer	20 pp	Mr.I.Mabuchi	P-57/96(BM)

Social forestry	Book	Socio-economic survey report on rural farmers in Ohndaw village, Sagaing	11 pp	Dr.S.Tsuru	P-58/96(BE)
	Book	People's participation in forestry	84 pp	Ms.T.Haraguchi	P-59/96(BE)
Forest Protection	Book	Forest Pathology	33 pp	Dr.T.Kubono	P-60/96(BE)
Silviculture	Book	Nursery and Transplant operation of Mangrove species in Myanmar	20 pp	Dr.T.Kishimoto	P-61/96(BE)
Forest Machinery	Book	How to deassemble the bush cutter (Shin daiwa model R 20)	11 pp	Mr.I.Mabuchi	P-62/96(BE)
	Model	Technical teaching model-splicing model of wire rope & Nylon Rope		Mr.I.Mabuchi	P-2/96(MoE)
	Model	Technical teaching model-cut model of chain saw		Mr.I.Mabuchi	A-3/96(MoE)
	Model	Technical teaching model- contact point of Gasolene Engine		Mr.I.Mabuchi	A-4/96(MoE)

Note :

P : C.F.D.T.C's copy right

A : Copied (or) translated from others

B : Book

Mo : Model

E : in English Language

M : in Myanmar Language

THE LIST OF TEACHING MATERIALS WHICH WERE MADE BY CFDTC PROJECT

Field	Type	Title	Volume	Editor	Registered	Note
Training Method	Book	The result of training evaluation (1990/1991 - 1991/1992)	86 pp	Mr. F. Suzuki	P-1/93 (BE)	TM/A
	Book	The report of the survey on the forestry training needs	92 pp.	Mr. F. Suzuki	P-2/93 (BE)	TM/A
	Book	Training curriculum	19 pp.	Mr. F. Suzuki	P-3/93 (BE)	TM/A
	Book	The first three years' implementation report of the training courses (1990/91 - 1992/93)	241 pp.	Mr. M. Koyama	P-22/94 (BE)	TM/B
	Book	The result of training evaluation (From April, 1992 to March, 1994)	215 pp.	Mr. M. Koyama	P-23/94 (BE)	TM/D
	Book	Implementation report of the training courses (From April, 1993 to March, 1994)	122 pp.	Mr. M. Koyama	P-24/94 (BE)	TM/E
	Book	Guidance to the Training Method's field	9 pp.	Mr. M. Koyama	P-25/94 (BE)	TM/E
	Book	Implementation report of the training courses (From April, 1994 to March, 1995)	134 pp	Mr. M. Koyama	P-44/95(BE)	TM/F
	Book	The result of training evaluation (From April, 1994 to March, 1995)	112 pp	Mr. M. Koyama	P-45/95(BE)	TM/G
	Book	The report of the survey on the training needs for public training	76 pp	Mr. M. Koyama	P-46/95(BE)	TM/G
	Book	Training curriculum	20 pp	Mr. F. Suzuki	P-3/96(BM)	

Field	Type	Title	Volume	Editor	Registered	Note
Social Forestry	Book	Preliminary socio-economic survey on Taungya Farmers	4 pp.	Dr. S. Tsuru	P-26/94 (BE)	SF/A
	Book	Socio-economic survey on villagers adjacent to the training forest	18 pp.	Dr. S. Tsuru	P-27/94 (BE)	SF/A
	Book	Socio-economic analysis of ADA participants	16 pp.	Dr. S. Tsuru	P-28/94 (BE)	SF/A
	Book	Simple methods for charcoal making techniques	11 pp.	Mr. M. Koyama	P-29/94 (BE)	SF/A
	Book	Report on '95 socio-economic survey on the ADA participants	30 pp	Dr. S. Tsuru	P-47/95(BE)	SF/A
	Book	Preliminary socio-economic survey on Taungya farmers Socio-economic survey on villagers adjacent to the training forest Socio-economic analysis of ADA participants	48 pp	Dr. S. Tsuru	P-26-27-28 /96(BM)	
	Book	Report on 95' socio-economic survey on the ADA participants	38 pp	Dr. S. Tsuru	P-47/96(BM)	
	Book	Socio-economic survey report on rural farmers in Ohndaw village, Sagaing	11 pp	Dr. S. Tsuru	P-58/96(BE)	
	Book	People's participation in forestry	84 pp	Ms. T. Haraguchi	P-59/96(BE)	

Field	Type	Title	Volume	Editor	Registered	Note
Silviculture	Book	Explanatory text of soil survey in CFDTC Training Forest	14 pp.	Dr. K. Kawamuro	P-4/93 (BE)	PL/A
	Map	Soil map of Training Forest in CFDTC	1 pc.	Dr. K. Kawamuro	P-2/94 (MpE)	E/R
	Book	Principles of safe thinning operation	17 pp.	Mr. T. Kurata	P-5/93 (BE)	PL/A
	Book	Notes on field survey of forest soil	13 pp.	Mr. T. Kurata	P-6/93 (BE)	PL/A
	Video	Safe thinning operation in Japan	20 min.	Mr. T. Kurata	A-1/93 (VE)	A/V
	Specimen	Soil monolith	2 pcs	Dr. K. Kawamuro Mr. T. Kurata	P-1/93 (SpE)	LAB
	Book	Basic and action planning of forest plantation in Myanmar [English]	95 pp.	U Thein Lwin	P-20/94(BE) JICA	PL/B
	Book	Basic and action planning of forest plantation in Myanmar [Myanmar]	62 pp.	U Thein Lwin	P-20/94(BM) JICA	PL/B
	OHP Film	Note of Mangrove Forest	52 pcs.	Dr. T. Nakasuga	P-2/94(OE)	PL/C
	Slide	Note of Mangrove Forest	103 pcs.	Dr. T. Nakasuga	P-4/94(S)	E/R
	Book	On stand structure of some types of forest in CFDTC Training Forest	47 pp.	Mr. T. Kishimoto	P-30/94(BE)	PL/A
	OHP Film	On stand structure of some types of forest in CFDTC Training Forest	28 pcs.	Mr. T. Kishimoto	P-3/94(OE)	PL/A
	Book	Plantation forestry on a par with the natural forests [English]	101 pp	U Oho	P-48/95(BE) JICA	PL/D
	Book	Plantation forestry on a par with the natural forests [Myanmar]	91 pp	U Oho	P-48/95(BM) JICA	PL/D
	Book	Note of mangrove forest	74 pp	Dr. T. Nakasuga	P-49/95(BE)	PL/C
	Book	Explanatory text of soil survey in CFDTC training forest	23 pp	Dr. K. Kawamuro	P-4/96(BM)	
	Book	Principle of safe thinning operation	19 pp	Mr. T. Kurata	P-5/96(BM)	
	Book	Notes on field survey of forest soil	20 pp	Mr. T. Kurata	P-6/96(BM)	
	Book	On stand structure of some types of forest in CFDTC training forest	51 pp	Dr. T. Kishimoto	P-30/96(BM)	
	Book	Note of mangrove forest	86 pp	Dr. T. Nakasuga	P-49/96(BM)	
Book	Nursery and transplant operation of mangrove species in Myanmar	20 pp	Dr. T. Kishimoto	P-61/96(BE)		

Field	Type	Title	Volume	Editor	Registered	Note
Nursery	Book	Seed orchard	12 pp.	Mr.K Kawamura. Mr.T.Kurata	P-7/93(BE)	NR/A
	Book	Vegetative propagation methods in forestry	32 pp.	Mr.K Kawamura Mr.T.Kurata	P-8/93(BE)	NR/A
	Book	Vegetative propagation of plants methods and application [English]	59 pp.	Dr.Nyan Htun	P-23/94(BE) JICA	NR/A
	Book	Vegetative propagation of plants methods and application[Myanmar]	64 pp.	Dr.Nyan Htun	P-24/94(BM) JICA	NR/A
	Slide	Teak grafting	38 pcs.	Mr.T.Kurata	P-1/93 (Sf)	-
	Book	Manual of forest nursery management in Myanmar [English]	64 pp.	U Thein Lwin	P-21 /94 (BE) JICA	NR/B
	Book	Manual of forest nursery management in Myanmar [Myanmar]	52 pp.	U Thein Lwin	P-21/ 94 (BM) JICA	NR/B
	Book	Biotechnology in forestry	29 pp	Dr. T. Sato	P-58/95(B)	NR/B
	Book	Seed orchard	14 pp	Mr.K.Kawamura	P-7/96(BM)	
	Book	Vegetative propagation methods in forestry	36 pp	Mr.K.Kawamura Mr. T. Kurata	P-8/96(BM)	
	Book	Biotechnology in forestry	31 pp	Dr. T. Sato	P-50/96(BM)	

Field	Type	Title	Volume	Editor	Registered	Note
Forest Management	Map	Base map (1:5000)	2 pcs.	JICA	P-1/94(MpE)	E/R
	Book	Compass survey	20 pp.	U Saw Eh Dah	P-31/94(BE)	FM/A
	Book	Stand survey by slit board	24 pp.	Mr.F.Miyatake Mr.A.Tajiri	P-11/94(BE)	FM/A
	Book	Aerial photography	14 pp.	Mr.A.Tajiri	A-12/94(BE)	FM/A
	Book	Compass surveying system (Software)	13 pp.	Mr.A.Tajiri	P-13/94(BE)	FM/A
	Book	Some topics on the computer utilization for forestry	48 pp	Mr. M. Sano Mr. A. Tajiri	P-51/95(BE)	FM/B
	Book	Forest information system by Mapinfo 3.0	13 pp	Mr. A. Tajiri	P-52/95(BE)	FM/B
	Book	How to use computer	80 pp	Mr. A. Tajiri	P-53/95(BE)	FM/C
	Book	Stem analysis	16 pp	Mr. A. Tajiri	P-54/95(BE)	FM/C
	Book	Interim report of observation plot in the training forest	22 pp	Mr. A. Tajiri	P-55/95(BE)	FM/B
	Book	Stand survey by slit board	25 pp	Mr. F. Miyatake Mr. A. Tajiri	P-11/96(BM)	
	Book	Aerial Photography	24 pp	Mr. A. Tajiri	P-12/96(BM)	
	Book	Compass Survey	21 pp	U Saw Eh Dah	P-31/96(BM)	
	Book	Some topics on the computer utilization for forestry	53 pp	Mr. M Sano	P-51/96(BM)	
	Book	Stem Analysis	21 pp	Mr.A.Tajiri	P-54/96(BM)	
Book	Interim report of observation plot in the training forest	28 pp	Mr.A.Tajiri	P-55/96(BM)		

Field	Type	Title	Volume	Editor	Registered	Note
Forest Protection	Book	Outline of forest protection [English]	23 pp	Mr.F.Miyatake U Myat Soe U Phone Lwin	P-14/94(BE)	FP/B
	Book	Outline of forest protection [Myanmar]	45 pp	Mr.F.Miyatake U Myat Soe U Phone Lwin	P-14/94(BM)	FP/B
	Book	Forest fire protection [English]	89 pp	U Tin Nyunt	P-16/94(BE) JICA	FP/A
	Book	Forest fire protection [Myanmar]	102 pp	U Tin Nyunt	P-16/94(BM) JICA	FP/A
	Book	Insects and importance of insects towards forests	160 pp.	Dr.T.Gotoh Mr.F.Miyatake	A-15/94(BE) JICA	FP/B
	Book	Sampling in insect pest management	26 pp.	Dr.T.Gotoh	P-32/94(BE)	FP/C
	Book	Major insect pest in Thailand	22 pp	Dr.T.Gotoh	P-33/94(BE)	-
	Video	Forest insects [English]	12 min.	Mr.F.Miyatake	A-2/94(VE)	A/V
	Video	Forest insects [Myanmar]	12 min.	Mr.F.Miyatake	A-2/94(VM)	A/V
	Video	The teak beehole borer [English]	12 min.	Dr.K.Nakanuma Mr.F.Miyatake	A-3/94(VE)	A/V
	Video	The teak beehole borer[Myanmar]	12 min.	Dr.K.Nakanuma Mr.F.Miyatake	A-3/94(VM)	A/V
	Slide	The teak beehole borer	17 pcs.	Dr.K.Nakanuma	P-2/94(S)	FP/C
	Slide	Forest disease	41 pcs.	U Myat Soe	A-3/94(S)	FP/C
	OHP Film	Forest disease [English]	21 pcs.	U Myat Soe	P-1/94(OE)	-
	OHP Film	Forest disease [Myanmar]	21 pcs.	U Myat Soe	P-1/94(OM)	-
	Video	Poppa national park [English]	67 min.	U Ohn ,U Uga Mr.K.Morita	P-4 / 94(VE)	A/V
	Video	Poppa national park [Myanmar]	23 min.	U Ohn ,U Uga Mr. K.Morita	P-4 /94(VM)	A/V
	Book	Insect and importance of insect towards forest	152 pp	Dr. T. Gotoh Mr.F.Miyatake	P-15/96(BM)	
	Book	Sampling in insect pest management	33 pp	Dr. T. Gotoh	P-32/96(BM)	
	Book	Forest pathology	33 pp	Dr. T. Kubono	P-60/96(BE)	

Field	Type	Title	Volume	Editor	Registered	Note
Forest Road	Book	Forest road bridges (English)	147 pp.	U Tin Nyunt	P-17/94(BE) JICA	FR/A
	Book	Forest road bridges (Myanmar)	120 pp.	U Tin Nyunt	P-17/94(BM) JICA	FR/A
	Book	Forest roads (English)	100 pp.	U Tin Nyunt	P-18/94(BE) JICA	FR/B
	Book	Forest roads (Myanmar)	107 pp.	U Tin Nyunt	P-18/94(BM) JICA	FR/B
	Book	Forest road survey	22 pp.	U Saw Eh Dah	P-34/94(BE)	FR/D
	Book	Designing forest road	22 pp.	Mr. Y. Fujimoto	P-35/94(BE)	FR/C
	Book	Forest survey table	48 pp.	Mr. T. Sunayama	A-9/93(BE)	FR/C
	Book	Tables for road curve setting	78 pp.	Mr. T. Sunayama	A-10/93(BE)	FR/C
	Book	Forest road survey	32 pp.	U Saw Eh Dah	P-34/96(BM)	
	Book	Designing forest road	23 pp.	Mr. Y. Fujimoto	P-35/96(BM)	

Field	Type	Title	Volume	Editor	Registered	Note
Forest Machinery	Book	Fundamental of simple engines [Myanmar]	48 pp.	U Thar Htay U Khin Maung Myint	P-36/94(BM)	FM/A
	Book	Saw chain sharpening and trouble shooting [Myanmar]	21 pp.	U Thar Htay	P-37/94(BM)	FM/A
	Book	Operation and trouble shooting of Earth Auger and Brush Cutter [Myanmar]	27 pp.	U Aung Than Myint U Khin Maung Te	P-38/94(BM)	FM/A
	Book	Instruction for operation in new machineries [Myanmar]	37 pp.	U Khin Maung Myint	P-39/94(BM)	FM/A
	Book	Chain saw operation manual [English]	13 pp.	Mr.T.Sunayama Mr.I.Mabuchi U Thar Htay	P-40/94(BE)	FM/A
	Video	Setting of saw chain [English]	30 min.	Mr.T.Sunayama	A-5/94(VE)	A/V
	Video	Maintenance for Komatsu Bulldozer [English]	30 min	Mr.T.Sunayama	A-6/94(VE)	A/V
	Model	Saw chain (wood model)	10 pcs.	Mr.T.Sunayama	A-1/94(MoE)	E/R
	Book	Farm tractor operation manual [English]	21 pp.	Mr. I.Mabuchi	P-41/94(BE)	FM/B
	Book	Instruction manual for instructor (How to teach operation of Tractor)	21 pp.	Mr. I.Mabuchi	P-42/94(BE)	FM/B
	Book	Instruction manual for instructor (How to make working plan)	10 pp.	Mr. I.Mabuchi	P-43/94(BE)	FM/B
	Video	Work of Bulldozer	20 min.	Mr. I.Mabuchi	A-7/94(VE)	A/V
	Book	Workshop tools and equipments	21 pp	Mr. I. Mabuchi	P-56/95(BE)	FM/B
	Book	The work of bulldozer	18 pp	Mr. I. Mabuchi	P-57/95(BE)	FM/B
	Book	Chain saw operation manual	28 pp	Mr.T.Sunayama Mr.I.Mabuchi U Thar Htay	P-40/96(BM)	
	Book	Farm tractor operation manual	23 pp	Mr.I. Mabuchi	P-41/96(BM)	
	Book	Instruction manual for instructor (How to teach operation of tractor)	29 pp	Mr.I. Mabuchi	P-42/96(BM)	
	Book	Instruction manual for instructor (How to make working plan)	17 pp	Mr.I. Mabuchi	P-43/96(BM)	
	Book	Workshop tools and equipment	39 pp	Mr.I. Mabuchi	P-56/96(BM)	

Field	Type	Title	Volume	Editor	Registered	Note
Forest Machinery	Book	The work of bulldozer	20 pp	Mr. I. Mabuchi	P-57/96(BM)	
	Book	How to deassemble the bush cutter (Shin daiwa model R 20)	11 pp	Mr. I. Mabuchi	P-62/96(BE)	
	Model	Technical teaching model- splicing model of wire rope & nylon rope	1 set	Mr. I. Mabuchi	P-2/96(MoE)	
	Model	Technical teaching model- cut model of chain saw	1 set	Mr. I. Mabuchi	A-3/96(MoE)	
	Model	Technical teaching model- contact point of gasolene engine	1 set	Mr. I. Mabuchi	A-4/96(MoE)	

Remarks : B ; Book
V ; Video
S ; Slide
O ; OHP Film
Sp ; Specimen
Mo ; Model
Mp ; Map
M ; in Myanmar language
E ; in English language

Types of Teaching Materials

Nos of Registered

1. Book	97
2. Video	10
3. Slide	4
4. OHP Film	4
5. Specimen	1
6. Model	5
7. Map	2
Total	123

日本側のインプット実績

単位	90/91	91/92	92/93	93/94	94/95	95/96	計	96/97 (計画)	備考
◇専門家派遣									
長期	6	6	6	6	6	5	14	4	
短期	0	4	5	3	4	6	22	6	
◇研修員受入れ									
日本	2	4	4	4	3	2	19	2	
第3国		1(タイ)		1(韓国)		1(北)	1		
文部省留学生	2	5	4	5	3	3	22	2	97/98 1名(英)
小計			2(タイ)		2(タイ)		4		
技術交換	2	5	6	5	5	3	26	5	
計									
◇機材供与	2,981	4,904	3,655	3,935	2,775	2,524	20,774	2,211	
◇ローカルコスト負担									
一般現地業務費	25.95 (378)	41.23 (552)	43.16 (546)	48.91 (540)	63.81 (644)	49.15 (462)	272.21 (3,122)	43.18 (462)	研修経費(旅費、謝金等)
中堅技術者養成対策		117.65	96.93	90.97	64.63	39.42	409.60	31.03	演習林造成整備費用
モデルインフラ整備			185.0				185.0		パンフレット作成
技術普及広報		7.78		17.42			17.42		東北タイプロジェクト等訪問
技術交換				9.57			17.35		教材のミ語への翻訳
現地語教科書作成						19.26	19.26		普及活動経費(セミナー費)
啓蒙普及活動									
計	25.95	166.66	325.09	166.87	128.44	107.83	920.84	142.71	
◇調査面派遣	長期間 実数計	計画計	実数計	実数計	実数計			F/通訳 (10月迄)	

注：1. 長期専門家の人数は9月30日現在
 2. ローカルコストのドルへの換算は各時点の為替レートを利用した。

派遣専門家（長期）リスト

(1996年 9月30日現在)

<u>氏 名</u>	<u>分 野</u>	<u>派 遣 期 間</u>
安藤 和哉	リーダー兼 訓練方法	95. 7. 23 ~ 97. 7. 31
馬淵 征雄	林業機械	93. 7. 29 ~ 96. 10. 28
柳沢 英治	森林経営・森林保護 (96年8月より 造林、苗畑も担当)	95. 7. 17 ~ 97. 7. 31
鈴木 清美	業務調整	95. 8. 24 ~ 97. 7. 31

(F/U期間中の帰国専門家)

大西 信吾	業務調整	90. 8. 15 ~ 95. 9. 30
森田 一行	造林・苗畑	93. 7. 29 ~ 96. 7. 28

1-1. 長期専門家 (図-1)

担当	A 1 Form 発出	B 1 Form 発出	氏名	派遣期間	B 1 Form 発出	氏名	派遣期間
チームリーダー	90年 7月 2日	90年 7月 11日	田邊真次	90年 8月 15日～93年 8月 14日	93年 6月 25日	古本忠	93年 7月 29日～95年 7月 31日
訓練方法	90年 7月 2日	90年 7月 11日	鈴木文益	90年 8月 29日～92年 8月 28日	92年 6月 28日	小山誠	92年 8月 5日～95年 7月 31日
造林、苗畑	90年 7月 2日	90年 7月 11日	倉田徹也	90年 8月 15日～93年 8月 14日	93年 6月 25日	森田一行	93年 7月 29日～
森林経営、森林保護	90年 7月 2日	90年 7月 11日	宮武文典	90年 8月 29日～92年 8月 28日	92年 6月 28日	田尻明彦	92年 8月 5日～95年 7月 31日
林道、林業機械	90年 7月 2日	90年 7月 11日	砂山隆司	90年 8月 29日～93年 8月 28日	93年 6月 25日	馬淵征雄	93年 7月 29日～
業務調整	90年 7月 2日	90年 7月 11日	大西信吾	90年 8月 15日～95年 9月 30日			

フォローアップ

担当	A 1 Form 発出	B 1 Form 発出	氏名	派遣期間
チームリーダー・補助	95年 6月 27日	95年 7月 3日	安藤和哉	95年 7月 23日～97年 7月 31日
造林、苗畑	95年 6月 27日	継続	森田一行	93年 7月 29日～96年 7月 28日
森林経営、森林保護	95年 6月 27日	95年 7月 3日	柳沢英治	95年 7月 17日～97年 7月 31日 (96.8より造林、苗畑も担当)
林業機械	95年 6月 27日	継続	馬淵征雄	93年 7月 29日～96年 10月 28日
業務調整	95年 6月 27日	95年 8月 14日	鈴木清美	95年 8月 24日～97年 7月 31日

1-2. 短期専門家 (図-2)

1991-92年度枠

担当	A 1 Form 発出	B 1 Form 発出	氏名	滞在期間 (来編から離編まで)
施工管理	91年 10月 30日	92年 2月 7日	本橋紘	92年 2月 24日～92年 3月 2日、同年 3月 16日～3月 27日、同年 6月 11日～7月 2日
同上		92年 4月 23日	東條輝之	92年 5月 11日～92年 5月 28日
森林保護 (虫害)	91年 12月 26日	91年 12月 27日	中牟田潔	92年 1月 23日～92年 2月 11日
アグロフォレストリー	91年 12月 26日	92年 1月 28日	鶴野治	92年 2月 29日～92年 4月 25日

1992-93年度枠

担当	A1Form発出	B1Form発出	氏名	滞在期間 (来種から離種まで)
森林土壌	91年12月26日	92年3月25日	河室公康	92年4月25日～92年6月11日
林道	92年10月22日	92年12月16日	藤本義浩	93年1月14日～93年4月12日
林木育種、無性生殖法	92年10月22日	92年12月18日	川村薫一郎	93年1月28日～93年2月25日
訓練方法	92年10月22日	93年1月25日	吉田昌生	93年2月8日～93年2月27日
社会林業	92年10月22日	93年2月5日	鶴助治	93年3月20日～93年5月17日

1993-94年度枠

担当	A1Form発出	B1Form発出	氏名	滞在期間 (来種から離種まで)
社会林業	93年11月22日	94年2月10日	鶴助治	94年3月5日～94年4月30日
マングロープ造林	93年11月22日	94年2月17日	中須賀常雄	94年3月18日～94年4月2日
植生調査	93年11月22日	94年2月17日	岸本司	94年3月18日～94年4月13日

1994-95年度枠

担当	A1Form発出	B1Form発出	氏名	滞在期間 (来種から離種まで)
森林土壌調査	94年10月25日	94年11月14日	佐藤孝夫	94年12月7日～95年2月3日
社会林業	94年10月25日	95年2月10日	鶴助治	95年2月28日～95年4月29日
国立公園管理	94年10月25日	95年3月7日	佐方啓介	95年4月3日～95年4月27日
緑のコンクリートの湖	94年10月25日	95年3月29日	佐野真	95年4月10日～95年5月11日

1995-96年度枠

担当	A1Form発出	B1Form発出	氏名	滞在期間 (来種から離種まで)
社会林業	95年8月25日	95年10月12日	鶴助治	95年10月29日～95年12月24日
林業への住民参加	95年8月25日	96年11月29日	原口孝子	96年1月9日～96年2月10日
樹病	95年8月25日	96年1月24日	窪野高徳	96年2月15日～96年3月26日
マングロープ造林	95年8月25日	96年3月5日	岸本司	96年3月27日～96年4月22日
訓練方法 (印刷製本)	95年8月25日	96年3月4日	荻野栄一	96年3月29日～96年4月13日
A V機器の操作・保守	95年8月25日	96年3月1日	長嶋三郎	96年3月29日～96年4月13日

1996-97年度枠

担当	A I Form発出 96年 7月 5日	B I Form発出 96年 7月 5日	氏名	滞在期間 (来緬から離緬まで)
苗畑				年 月 日 ~ 年 月 日
放燒き技術				年 月 日 ~ 年 月 日
普及教材の作成技術				年 月 日 ~ 年 月 日
林業機械				年 月 日 ~ 年 月 日
荒廃地造林				年 月 日 ~ 年 月 日
社会林業				年 月 日 ~ 年 月 日

1-3. 業務出張専門家 (図-2)

担当	申請 92年 7月 8日	ミ側へ通知 92年10月 2日	氏名	滞在期間 (来緬から離緬まで)
昆虫学			後藤忠男	92年10月26日 ~ 92年11月 7日

1-4. 長期調査員 (図-3)

担当	申請 91年 2月21日	ミ側へ通知 91年 3月25日	氏名	滞在期間 (来緬から離緬まで)
無償供与機材点検修理			長嶋三郎	91年 4月 8日 ~ 91年 4月15日

1-5. 実施設計調査団 (図-3)

担当	ミ側へ通知 91年 3月19日	氏名	滞在期間 (来緬から離緬まで)
モデルインフラプロジェクト基盤整備		本橋弘、飯田康弘	91年 4月 1日 ~ 91年 4月28日

1-6. プロジェクト調査団 (図-3)

目的	ミ側へ通知 90年12月12日	氏名	滞在期間 (来緬から離緬まで)
業務出張		戸水康二、遠藤浩昭	91年 1月12日 ~ 91年 1月17日
計画打合せ調査団		長塚耀一、菅沼修、田之上進、中山英雄、野田直人	92年 1月13日 ~ 92年 1月23日
巡回指導調査団		眞柴季司、香山節夫、阿部秀男、池田修一	93年 1月11日 ~ 93年 1月21日
終了時評価調査団		大庭重則、宮川秀樹、猪瀬光雄、沖浦文彦、西野桂子	95年 1月23日 ~ 95年 2月 3日

1-7. 会議出張 (図-3)

会議名	出席者	会期	場所
平成3年度調整員会議	大西信吾	91年 7月 1日～91年 7月 4日	シンガポール
平成3年度チームリーダー会議	田邊真次	92年 1月27日～92年 2月 7日	日本
平成4年度チームリーダー会議	田邊真次	93年 2月15日～93年 2月20日	マレーシア
平成5年度調整員会議	大西信吾	93年10月 4日～93年10月 8日	マレーシア
平成5年度チームリーダー会議	古本忠	94年 1月31日～94年 2月 8日	日本
平成6年度チームリーダー会議	古本忠	95年 2月13日～95年 2月17日	タイ
平成7年度調整員会議	鈴木清美	95年10月23日	フィリピン
平成7年度チームリーダー会議	安藤和哉	96年 1月25日	96年 2月 6日 日本

2-1. カウンタパート研修 (図-4)

1990-91年度種	課題	A2-3Form発出	受入回答	氏名	研修期間 (来日から離日まで)
研修管理		90年12月 3日	91年 3月 6日	U Sann Lwin	91年 3月25日～91年 7月31日
	訓練方法	90年12月 3日	91年 3月 6日	U Aung Din	91年 3月25日～91年10月 6日
1991-92年度種	課題	A2-3Form発出	受入回答	氏名	研修期間 (来日から離日まで)
	訓練方法	91年 7月 2日	92年 3月 4日	U Min Htoo Lwin	92年 3月26日～92年 6月16日
	機械	91年 7月 2日	92年 3月 4日	U Aung Than Myint	92年 3月26日～92年 6月16日
	造林	91年 7月 2日	92年 3月 4日	U Chit Paw	92年 3月26日～92年 6月16日
	林道	91年 7月 2日	92年 3月 4日	U Ye Htut	92年 3月26日～92年 6月16日

1992-93年度枠

課題	A2-3Form発出	受入回答	氏名	研修期間 (来日から離日まで)
森林造成技術者	92年 5月26日	92年 6月18日	U Ohn Lwin	92年 7月 7日～92年10月15日
森林管理計画	92年 5月26日	92年 7月23日	U Myat Soe	92年 8月17日～92年11月15日
森林管理計画	92年 5月26日	92年 7月23日	U Phone Lwin	92年 8月17日～92年11月15日
森林土壌	92年 5月26日	92年 7月31日	U Khin Maung Hla	92年 8月20日～92年12月 6日

1993-94年度枠

課題	A2-3Form発出	受入回答	氏名	研修期間 (来日から離日まで)
森林資源調査	93年 5月 4日	93年 5月13日	U Saw Eh Dah	93年 6月 8日～93年 9月 7日
森林造成技術者	93年 5月 4日	93年 6月18日	U Soe Naing	93年 7月13日～93年10月21日
森林管理計画	93年 5月 4日	93年 7月21日	U Tha Htay	93年 8月15日～93年11月14日
林業機械	93年 5月 4日	94年 2月14日	U Khin Maung Myint	94年 3月21日～94年 6月25日

1994-95年度枠

課題	A2-3Form発出	受入回答	氏名	研修期間 (来日から離日まで)
森林造成技術者	94年 5月30日	94年 6月10日	U Thein Zaw Win	94年 7月12日～94年10月20日
森林管理計画	94年 5月30日	94年 7月20日	U Htin Win	94年 8月15日～94年11月13日
訓練・研修	94年 9月28日	95年 2月 8日	U Hla Win Maung	95年 2月22日～95年 4月14日

1995-96年度枠

課題	A2-3Form発出	受入回答	氏名	研修期間 (来日から離日まで)
社会林業	95年 4月12日	95年 4月28日	U Win Maw	95年 5月11日～95年 8月16日
森林管理計画	95年 5月 8日	95年 7月24日	U Myint Thein Khaing	95年 8月14日～95年11月12日

1996-97年度枠

課題	A2-3Form発出	受入回答	氏名	研修期間 (来日から離日まで)
森林管理計画	96年 4月 2日	96年 7月10日	U Bo Ni	96年 8月12日～96年11月10日
熱帯林業資源	96年 3月20日	96年 8月29日	U Than Naing	96年 9月23日～96年10月30日

2-2. 文部省国費留学生 (図-5)

選考指示	選考決定	受入回答	氏名	出国	受入大学及び指導教官
92年 5月28日	92年 8月28日	93年 3月 4日	U San Win	93年 4月 1日	筑波大学、熊崎實農林学系教授
94年 8月22日	94年 9月22日	95年 2月22日	U San Thwin	95年 4月 4日	北海道大学、石井寛農学部教授
96年 6月12日	96年 8月20日	年月日	U Hla Maung Thein	年月日	京都大学、渡辺弘之農学部教授

2-3. 第三国研修 (図-5)

課目	選考決定	氏名	研修期間
Community Forestry Development Techniques	91年10月11日	U Win Law	92年 1月20日～92年 2月28日

2-4. 技術交換 (図-5)

対象プロジェクト及びメンバー	申請	条件了承	C/P 選考決定	入金	執行額	実施期間	決算
タイ国造林研究訓練計画 II	92年 6月11日	92年 7月21日	92年 9月 7日	92年 8月12日	US\$ 7,777.35	92年 9月21日～9月29日	92年 9月29日
U Sam Lwin, U Win Kyint 田邊真次、大西信吾							
対象プロジェクト及びメンバー	申請	条件了承	C/P 選考決定	入金	執行額	実施期間	決算
タイ国東北タイ造林普及計画	94年 4月22日	94年 5月13日	94年 5月30日	94年 6月 6日	US\$ 9,568.52	94年 6月 7日～6月16日	94年 6月22日
U Saw Eh Dah, U Ohn Lwin 小山誠、田尻明彦							
対象プロジェクト及びメンバー	申請	条件了承	C/P 選考決定	入金	執行額	実施期間	決算
ネパール国村落振興・森林保全計画	96年 6月14日	年月日	年月日	年月日	US\$	年月日～	年月日

3. ローカルコスト負担事業

3-1. 一般現地業務費 (図-6. 7. 8)

支出科目	受入	受入総額(US\$)	支出総額(US\$)	支出総額(K\$)	#米ドルの支出総額にはチャットへの換金分も含む
<u>90-91 年度第2</u>					
一般現地業務費	90年 8月10日	6,194.73 (946 千円)	730.67	3,247	
貧困国対策費	同上	8,545.50 (1,305 千円)	493.20	1,615	
<u>90-91 年度第3</u>					
一般現地業務費	なし		5,016.94	3,586	
貧困国対策費			6,342.05	13,375	
<u>90-91 年度第4</u>					
一般現地業務費	91年 1月 8日	4,836.94 (660 千円)	3,738.05	6,266.90	
貧困国対策費	同上	6,375.96 (870 千円)	7,234.57	3,149	
<u>91-92 年度第1</u>					
一般現地業務費	91年 5月 2日	4,338.40 (600 千円)	1,529.10	785.50	
貧困国対策費	同上	5,639.91 (780 千円)	1,042.89	5,162	
<u>91-92 年度第2</u>					
一般現地業務費	91年 6月28日	4,321.21 (600 千円)	5,729.57	7,578	
貧困国対策費	同上	5,617.58 (780 千円)	4,596.12	10,276	
<u>91-92 年度第3</u>					
一般現地業務費	91年10月16日	4,629.63 (600 千円)	6,587.82	4,654.50	
貧困国対策費	同上	6,018.52 (780 千円)	12,088.38	8,456	
<u>91-92 年度第4</u>					
一般現地業務費	91年12月12日	4,638.58 (600 千円)	5,620.26	15,340	
貧困国対策費	同上	6,030.15 (780 千円)	6,425.61	13,680	

支出科目 受入 受入総額(US\$) 支出総額(US\$) 支出総額(Ks) #米ドルの支出総額にはチャットへの換金分も含む

支出科目	受入	受入総額(US\$)	支出総額(US\$)	支出総額(Ks)
<u>92-93 年度第1</u>				
一般現地業務費	92年 4月15日	10,286.36 (1,365 千円)	7,230.60	20,386.18
<u>92-93 年度第2</u>				
一般現地業務費	92年 7月30日	10,676.58 (1,365 千円)	7,061.41	14,664.90
<u>92-93 年度第3</u>				
一般現地業務費	92年10月20日	11,346.64 (1,365 千円)	9,683.24	9,722.50
<u>92-93 年度第4</u>				
一般現地業務費	93年 1月12日	10,846.25 (1,365 千円)	18,534.78	20,917.50
<u>93-94 年度第1</u>				
一般現地業務費	93年 4月 8日	12,216.41 (1,350 千円)	5,937.28	11,969
<u>93-94 年度第2</u>				
一般現地業務費	93年 7月12日	11,775.37 (1,300 千円)	10,537.17	9,895.50
<u>93-94 年度第3</u>				
一般現地業務費	93年 9月30日	12,772.00 (1,350 千円)	9,624.93	5,789.10
<u>93-94 年度第4</u>				
一般現地業務費	93年12月27日	12,145.75 (1,350 千円)	23,418.29	39,271.50
<u>94-95 年度第1</u>				
一般現地業務費	94年 4月15日	8,514.95 (883 千円)	10,329.71	13,497
	5月31日	6,723.81 (706 千円)		
<u>94-95 年度第2</u>				
一般現地業務費	94年 7月 8日	16,326.95 (1,618 千円)	20,243.39	18,807
<u>94-95 年度第3</u>				
一般現地業務費	94年10月 4日	16,188.10 (1,618 千円)	5,772.49	9,582.40

支出科目 受入 受入総額(US\$) 支出総額(US\$) #米ドルの支出総額にはチャットへの換金分も含む

94-95 年度第4 一般現地業務費	94年12月26日	16,051.59 (1,618 千円)	23,418.29	39,271.50
95-96 年度第1 一般現地業務費	95年 4月 7日	13,306.46 (1,155 千円)	12,717.79	21,224
95-96 年度第2 一般現地業務費	95年 6月26日 7月11日	4,534.75 (385 千円) 8,789.96 (770 千円)	8,751.78	8,929
95-96 年度第3 一般現地業務費	95年 9月21日	11,209.33 (1,154 千円)	11,649.27	13,045
95-96 年度第4 一般現地業務費	95年12月12日	11,308.19 (1,154 千円)	15,237.05	15,706.99
96-97 年度第1 一般現地業務費	96年 4月22日	7,049.11 (768 千円)	11,081.74	9,910.50
96-97 年度第2 一般現地業務費	96年 6月 6日	14,133.34 (1,537 千円)		

3-2. 中堅技術者養成対策事業 (図-6. 8)

ミ側要請 R/D追記

91年 7月 3日 91年 9月25日

1991-92年度枠

申請 口座交換 本部承認 入金(当口座) 予算総額 決算
 91年 7月12日 91年11月 6日 91年12月17日 92年 1月 7日 US\$ 117,647.06 (15,000千円) 92年 3月31日 (US\$ 94,317.86)

1992-93年度枠

申請 口上書交換 本部承認 入金(当口座) 予算総額 決算
 92年 7月15日 92年12月 8日 92年12月28日 US\$ 96,980.54 (12,000千円) 93年 3月31日

1993-94年度枠

申請 口上書交換 本部承認 入金(当口座) 予算総額 決算
 93年 3月22日 93年 7月20日 93年 8月12日 93年 9月 3日 US\$ 90,974.56 (9,475千円) 93年 3月30日

1994-95年度枠

申請 口上書交換 本部承認 入金(当口座) 予算総額 決算
 94年 4月22日 94年10月21日 94年10月27日 94年11月 4日 US\$ 64,631.58 (6,447千円) 95年 3月23日

1995-96年度枠

申請 口上書交換 本部承認 入金(当口座) 予算総額 決算
 95年 9月12日 96年 3月20日 95年11月24日 95年12月25日 US\$ 39,418.44 (3,999千円) 96年 3月29日

3-3. モデルインフラプロジェクト基盤整備 (図-6. 8)

目的 ミ側要請 実施設計調査団滞在 要請受諾通知 申請 R/D追記 口上書交換 工事契約 契約歴
 演習林造成 90年10月22日 91年 4月 1日~91年 4月28日 91年 6月26日 91年 7月12日 91年 9月25日 91年11月 6日 92年 3月21日 US\$ 185,000
 入金(事務所口座) 一回目支払 二回目・決算 工事完了通知 補修完了
 92年 6月11日 92年 6月16日 92年 7月15日 92年 7月27日 93年 1月25日

3-4. 技術普及広報 (図-6. 8)

目的 申請 入金(事務所口座) 契約 完成
 プロジェクトパンフレット制作 93年10月27日 93年11月26日 93年12月 7日 英版、94年 1月13日~編版、94年 3月14日
支払完了
 94年 3月24日 US\$ 17,420

3-5. 技術交換 [= 2-4] (図-6. 8)

<u>対象プロジェクト</u>	<u>申請</u>	<u>ミ側条件了承</u>	<u>C/P 選考決定</u>	<u>入金 (事務所口座)</u>	<u>決算</u>
タイ国造林研究訓練計画Ⅱ	92年 6月11日	92年 7月21日	92年 9月 7日	92年 8月12日	92年 9月29日 US\$ 7,777.35
タイ国東北タイ造林普及計画	94年 4月22日	94年 5月13日	94年 5月30日	94年 6月 6日	94年 6月22日 US\$ 9,568.52

3-6. 現地語教科書作成費 (図-6)

<u>目的</u>	<u>申請</u>	<u>入金 (事務所口座)</u>	<u>契約</u>	<u>完成</u>	<u>決算</u>
専門作家作成教科書の編語翻訳	95年 9月12日	95年10月 4日	95年10月17日	96年 3月25日	96年 3月29日 US\$ 1,926

ミヤンマー側のインプット実績

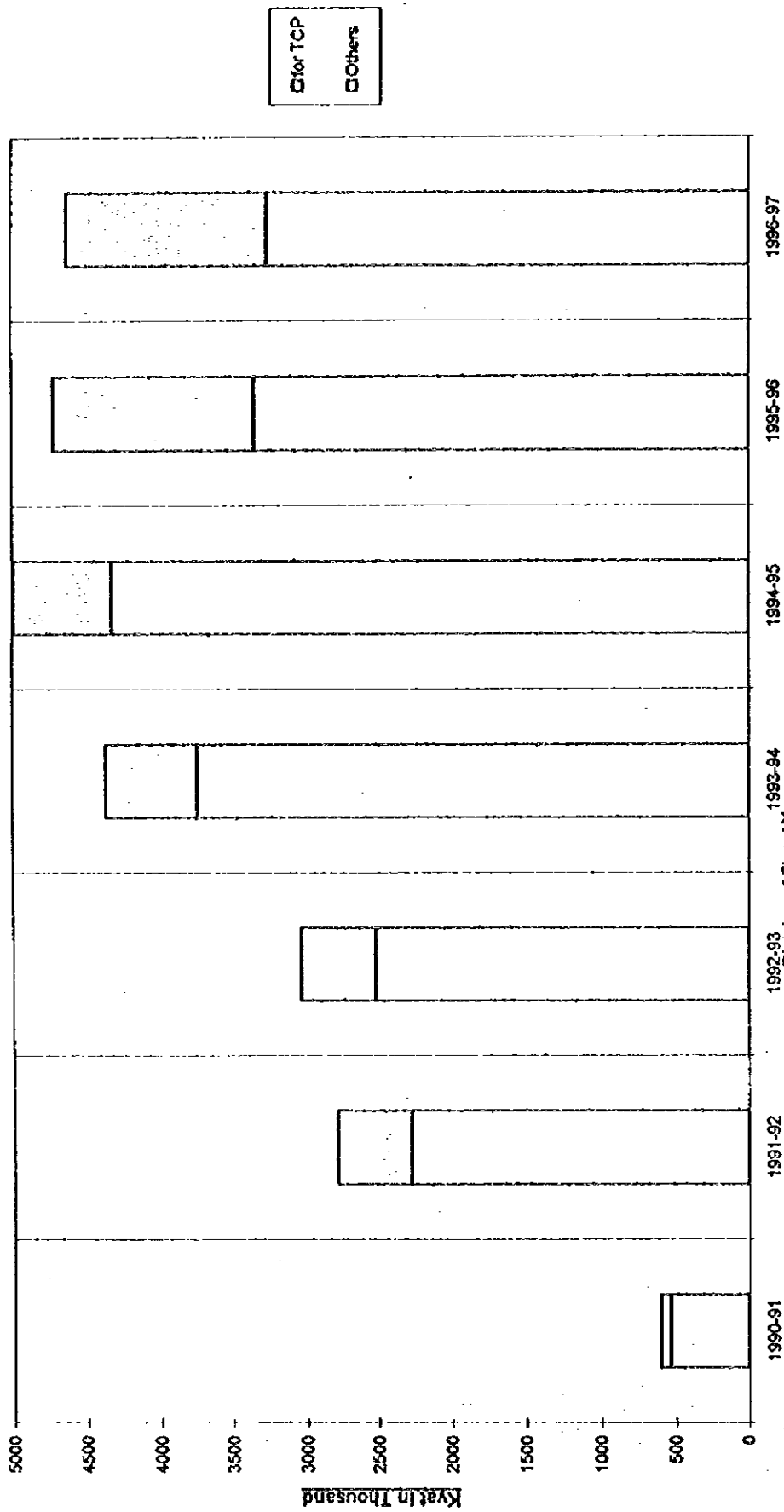
単位	90/91	91/92	92/93	93/94	94/95	95/96	96/97	備考
◇職員数 総数	人 65	56	122	114	106	101	83	
technical	人 50	44	54	50	51	50	46	
clerkal.	人 15	12	68	64	55	51	37	
driver.								
other staff								
C/P	人 22	21	20	20	25	19	16	
◇予算								
全体	千kyat 608	2,794	3,045	4,364	4,990	4,717	4,625	
% TCP	千kyat 59	515	525	623	680	1,375	1,080	
TCP記録	% 11	18	17	14	14	29	30	
◇資産								
建物・施設	千kyat 7,282	480	400	750	900	nil	nil	職員舎、ガスハウス、ガラー茂
車両	千kyat 1,080	nil	nil	nil	nil	nil	nil	7両(トラック7両等)
家具	千kyat nil	100	81	50	90	nil	222	寄贈ベッド、机等

注：1. 職員数は、9月1日現在、但し96/97については、9月30日現在 (Project Directorを含む)

2. TCPは技術訓練に係る訓練に使用した経費

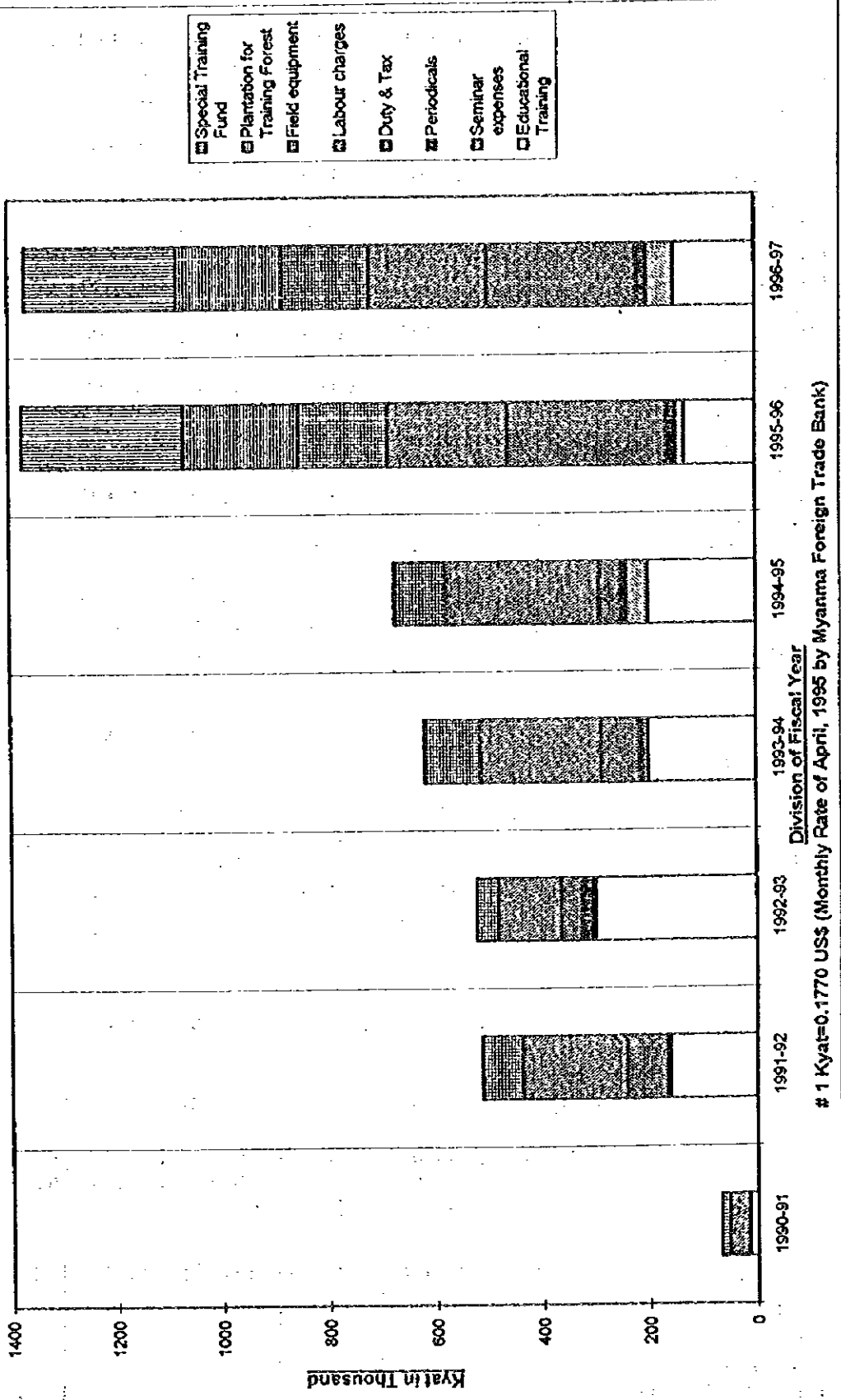
3. 95/96年度は、Special training fundが認められ、TCP配分率がアップした。当該年度の訓練特別手当はTCPについては、30.5万kyatであった。96/97年度は、29万kyatの予定

**Progress of Budget Allotment by Myanmar Side for
The Central Forestry Development Training Centre Project**



#1 Kyate=0.1770US\$(Monthly Rate of April, 1995 by Myanma Foreign Trade Bank)

**Progress of TCP Allotment by Myanmar Side for
The Central Forestry Development Training Centre Project**



ミャンマー側負担経費内訳

The Central Forestry Development Training Centre Project
Budget Allotment (Kyat in thousand)

Sr. No	Budget Head	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
1	Construction	-	479.90	750.00	750.00	900.00	-	-
2	Machinery	-	120.00	80.60	50.00	90.00	-	-
3	Equipments							
3	Others							
	(1)Labour charges	195.85	987.60	600.00	1144.30	1454.00	1136.75	1100.00
	(2)Duty and Tax	0.50	74.60	40.00	70.00	40.00	297.33	280.00
	(3)Hiring charges	-	0.50	-	-	-	-	10.00
	(4)Transporting Expenses	0.73	9.40	40.00	10.00	10.00	5.48	20.00
	(5)Office equipments	110.98	66.00	100.00	77.00	100.00	38.10	50.00
	(6)Fuel, Gasoline	16.04	123.80	150.00	80.00	100.00	108.89	100.00
	(7)Revenue and Postage	7.04	13.90	180.00	30.00	100.00	9.81	10.00
	(8)Electricity	95.12	55.40	160.00	10.00	310.00	233.78	200.00
	(9)Periodical	0.78	4.90	20.00	9.00	10.00	16.76	20.00
	(10)Uniform	-	2.50	10.00	-	1.00	-	10.00
	(11)Field Equipments	73.24	374.50	200.00	530.00	495.00	802.98	800.00
	(12)Printing	3.00	9.40	10.00	5.00	10.00	57.50	50.00
	(13)Exhibition expenses	0.85	1.00	5.00	20.00	20.00	39.45	50.00
	(14)Seminar expenses	-	0.70	5.00	9.00	40.00	16.72	50.00
	(15)Maintenance (Machinery)	13.95	49.60	75.00	160.00	100.00	225.94	200.00
	(16) " (Building)	16.50	39.00	75.00	400.00	200.00	174.43	200.00
	(17) " (Road)	-	19.60	100.00	600.00	600.00	437.81	400.00
	(18) " (Vehicles)	59.15	190.70	110.00	200.00	200.00	224.20	250.00
	(19) " (Others)	-	8.80	34.00	10.00	10.00	40.25	50.00
	(20)Educational Training	13.89	162.00	300.00	200.00	200.00	131.23	150.00
	(21)Plantation for Training Forest	-	-	-	-	-	220.10	200.10
	Grand Total	607.62	2793.80	3044.60	4364.30	4990.00	4217.51	4200.10

1 Kyat = 0.1770 US\$

(Monthly Rate of April, 1995 by Myanma Foreign Trade Bank)

Above mentioned items are approved by Ministry of finance and Revenue yearly.

Apart from them, Special Training Fund has approved by Ministry of Forestry in fiscal year 1995-96. It is for daily allowances of in-service trainees.

Sr. No	Budget Head	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
1	Special Training Fund							
	(1)for Departmental Training	-	-	-	-	-	194.60	135.24
	(2)for TCP Training	-	-	-	-	-	305.20	289.49

Preparation of Property for CPD/C by Forest Department

Fiscal Year	1990/91		1991/92		1992/93		1993/94		1994/95		1995/96		1996/97	
	No	Value	No	Value	No	Value	No	Value	No	Value	No	Value	No	Value
A. Building														
a. House														
1) Asst. Director's	2						1	350						
2) Staff Officer's	4						1	400	1	400				
3) Instructor's	13								1	500				
4) Other Officers	9													
5) Un-married Staffs	1			350										
6) Un-married Staffs					1	400								
7) Field House														
b. Warehouse														
1) Main Store	1			129.9										
2) Garage (S)	1													
3) Garage (M)	1													
4) Garage (L)														
B. Land Preparation														
a. Main compound														
1) Site clearing	done													
2) Water Supply work	done													
3) Electric work	done													
4) Drainage work	done													
5) Road construction	done													
6) Road construction	done													
7) Fencing	done													
8) Chain Link Fencing	done													
b. Training Forest														
1) 800 Ac (occupied)	40	7,282	2	479.9	2	400	2	750	2	900				
Sub Total														
C. Vehicle														
1) Hino TE 11 Water Bowser	1	250												
2) Hino TE 21 Truck	1	220												
3) MAZDA T2000 Light Truck	1	150												
4) MAZDA E2000 Light Truck	1	130												
5) MAZDA B1600 Pick-up	1	120												
6) MAZDA B600 Pick-up	1	110												
7) ZWE Tractor With Trailer (2 ton)	1	100												
Sub Total	7	1,080												

Preparation of Property for CFDTIC by Forest Department (continued)

Fiscal Year	up to 1990/91		1991/92		1992/93		1993/94		1994/95		1995/96		1996/97	
	No	Value	No	Value	No	Value	No	Value	No	Value	No	Value	No	Value
D. Furniture	Specification													
1) Single Bed	Nil		50	15										
2) Single Bed with Mosquito Net Stand			100	16	50	47.5	40	29.6				Nil		
3) Bed Side Table for Dormitory			50	5										
4) Folding Chair			50	10	50	26.5	25	17.5						
5) Arm Chair for Training Hall & Instructor Rm													40	48
6) Arm Chair for seminar Rm & Lunch Rm			10	7.5										
7) Arm Less Chair														
8) Table														
9) Table			50	25	30	6.6			30	15				
10) Student Desk			5	10										3
11) Meeting Table			23	11.5										30
12) Dining Table														
13) Meat Safe														
14) Steel Book Shelf for Training Hall														
15) Single Settee (Sofa)														
16) Bench														
17) Cupboard for Counterpart Rm.														
18) Show case for Computer Rm														
Sub Total			338	100	130	80.6	66	50	240	90				76
Grand Total	47	8,362	340	579.9	132	480.6	68	800	242	990	0	0	0	76

Value is mentioned in 1,000 Kyats.
1 Kyat= 0.1770US\$ (Monthly Rate of April, 1995 by Myanmar Foreign Trade Bank)

会議・セミナー等開催実績

各種会議の開催 (F/U期間)

- ・ 合同委員会 …………… 1回 (1996. 3. 26)
- ・ 四半期会議 …………… 3回 (1995. 9. 5, 1996. 1. 10, 1996. 7. 3)
※1回合同委員会と時期が重なったため省略した。
- ・ 月例会議 …………… 毎月実施 (12回)
- ・ 技術交換会議 …… 3回 (1995. 9. 19, 1996. 7. 16, 1996. 8. 9)
- ・ 教材登録委員会 …… 1回 (1996. 4. 30)
※なお、1995. 8月に教材の目録グループが設置された。

セミナー等の開催 (CFDTC)

- ・ 炭焼き技術等木材利用技術に関する現地研修会
主催：(社)全国燃料協会
期間：1995. 11. 15～11. 27
- ・ 造林事業強化のための国別ワークショップ
主催：ミャンマー森林局及びSTRAP
期間：1995. 11. 29～12. 1
- ・ 森林研究発表会 (Forest Research Congress)
主催：ミャンマー森林局
期間：1996. 3. 18～3. 19
- ・ 珊瑚礁と関係するエコシステムの持続的管理に関するセミナー
主催：ミャンマー森林局
期間：1996. 5. 28～5. 29
- ・ WID/GENDERに関するワークショップ
主催：CFDTC 原口孝子 (短期専門家)
期間：1996. 1. 16～1. 17
- ・ 樹病に関するセミナー
主催：CFDTC 窪野高德 (短期専門家)
期間：1996. 2. 21～2. 23
- ・ 熱帯地域の造林技術に関する特別講義
主催：CFDTC 浅川澄彦 (JIFPROアドバイザー)
- ・ 事業計画変更のためのワークショップ
主催：ミャンマー森林局
期間 1996. 9. 2～9. 6, 9/9～9/13

Consultation Meeting概要

THE GOVERNMENT OF THE UNION OF MYANMAR
MINISTRY OF FORESTRY
FOREST DEPARTMENT

Minutes of the Consultation Meeting for the Central Forestry
Development Training Centre Project

Date : 9 October 1996
Time : 10:00 AM
Place: Meeting Room, Office of the Director General,
Forest Department

Participants

Myanmar Representatives

1. Dr. Kyaw Tint Director-General, Forest Department
2. U Mehm Ko Ko Gyi Director, TRDD, Forest Department
3. U Khin Thein Director, Natural Forests and
Plantation, Forest Department
4. Lt. Col Ye Tint Director (Admin), Forest Department
5. U Thiri Tin Asst. Director (Admin), Forest
Department
6. U Saw Eh Dah Dy. Director (CFDTC)
7. U Khin Maung Hla Staff Officer (CFDTC)
8. U Soe Naing Staff Officer (CFDTC)
9. U Win Maw Staff Officer (CFDTC)

Japanese Representatives

1. Mr. Misao Ishijima Leader, Japanese Advisory Team
2. Mr. Isao Hotta Member, Japanese Advisory Team
3. Mr. Shuichiro Hamada Member, Japanese Advisory Team
4. Ms. Harumi Okawa Member, Japanese Advisory Team
5. Mr. Noriaki Tateno Head of Technical Cooperation
Section, Embassy of Japan.
6. Mr. Kazuya Ando Team Leader, Japanese Experts Team
7. Mr. Ikuo Mabuchi Expert, Japanese Experts Team
8. Mr. Eiji Yanagisawa Expert, Japanese Experts Team
9. Mr. Kiyomi Suzuki Liaison Officer, Japanese Experts
Team

Evaluation and Conclusive Remarks

Japanese Advisory Team conducted interviews with the Japanese experts and Myanmar counterparts, had a series of discussions with the Myanmar authorities concerned, made field survey and exchanged views among themselves during the stay in Myanmar from 1 Oct. to 8 Oct.

As a result, Japanese Advisory Team came to the following evaluation and conclusive remarks by their own responsibility.

I. Evaluation of Project Activities

1. Improvement of Training System and its Technological Impact

It is clearly recognized that remarkable improvement of training system has been achieved so far through introduction of new training courses as well as development and modification of training materials in reflecting with "The Result of Training Evaluation (March 1996)" as well as "The Survey on the Training Needs for Public Training (June 1996)", which will lead to higher technical level and appropriate knowledge for trainees' needs.

<Improvement of Training System>

(1) Expansion of training courses

- a. Forest extension
- b. Erosion control
- c. Income generation activities

(2) Development & modification of training materials

- a. Development of 35 textbooks
- b. Introduction of regional approach for Forestry for Local
Community Development and Agroforestry

It should be noted that overall technological impact of these improvement on the development of forestry as well as local community is not to be easily verified. Therefore Monitoring and Evaluation of impact should be conducted during the follow-up period in certain extent so as to verify dissemination of technological know-how and knowledge among trainees and also to find out how and what conducted training contributes to the development of forestry as well as local community.

2. Improvement of Facilities and its Institutional Impact

As most of facilities and equipment have been donated by Japanese side and also locally provided by Myanmar side and prior to the follow-up period, the provision of facilities and equipment is supplemental during the follow-up period which amount to 25 million yen so far.

It is recognized that the skills of maintenance of equipment have been improved, however those equipment donated under Japanese Grant - Aid in 1990 has been degrading and proper supply of spare parts and after care should be required. At the same time, maintenance function of CFDTC should be strengthened.

Concerning the Institutional Impact, it shall become outstanding training center in Myanmar if the commitment of Myanmar side continues in terms of budget and personnel.

CFDTC is expected to contribute to the socio-economic development in forestry sector together with the existing institutions such as Institute of Forestry, Forest Research Institute and Forestry Training School under the Ministry of Forestry.

II. Prospect for Sustainability

1. Prospect for Organizational and technological sustainability.

From the beginning of CFDTC, the present organizational structure was established and currently 83 personnel are posted, among which 16 counterparts are instructors for the training courses.

It can be understood that CFDTC is sufficiently staffed to carry on the current training courses and related programmes, however empowerment of staff in terms of technical level and numbers will be required if CFDTC broadens its responsibility to meet greening of Central Dry Zone through participatory programmes.

2. Prospect for Financial Sustainability

CFDTC annual budget borne by Myanmar side has been increasing through the efforts by Ministry of Forestry, and the amount is likely to be sufficient to sustain the present level of training. However, the amount of budget seems not to be sufficient when necessities arise such as upgrading of facilities and development of training courses.

In the National Progress Report which was tabled for sixteenth session of the Asia - Pacific Forestry Commission, Independent Forestry Development Funds besides the centralised budget was established to meet national forestry policy.

In this context, it will be an opportunity to allocate the budget necessary for the expansion of responsibility of CFDTC in future.

3. Prospect for Physical Sustainability

The CFDTC is well equipped with materials; machinery and infrastructure. However, the maintenance and upgrading system for those seems not to be sufficiently established. Overall level of Physical instrument has been improved so far, though it is noted that further advancement will be required in order to develop the activities of CFDTC to meet Myanmar forestry policy.

III. Conclusive Remarks

The project objectives to improve the socio-economic development in the forestry sector as well as the related field by providing educational and training courses to in-service personnel and local people with advanced technologies have been effectively achieved through the continuous technical, institutional and personnel capacity building within CFDTC.

In the follow-up period, it is recognized remarkable expansion of training courses as well as development of training materials with reflecting the monitoring of trainees and also survey for the socio-economic needs in Forestry Sector. Especially it should be noted that the Government of Myanmar has been gradually taking over training courses till they conduct 7 training courses by themselves so as to lead CFDTC to the self sustainable organization.

When taking into account such advancement and growing commitment of Government of Myanmar, the project goal of follow - up cooperation is to be fulfilled within the cooperation period.

However, the scope and magnitude of CFDTC will be considered still to be limited when considering the accelerated importance of the community forestry and greening Central Dry Zone through Participatory Programmes which is newly stipulated as main national goals in the Myanmar Forestry Policy 1995.

In this context, it should be considered to strengthen training and extension in Community Forest Development especially in Central Dry Zone in order to contribute to socio-economic development in line with the Myanmar Forest Policy 1995.

In addition, expansion of training scope in CFDTC should be also contribute to the full-scale utilization of facilities and equipment, which leads to future sustainability of CFDTC.

With recognition of the above surroundings, it is recommended that phase II Project Proposal should be imperative to achieve national goals in accordance with the Forest Policy 1995, and to attain full-scale utilization as well as future sustainability of CFDTC.

フェーズII要請内容要約

(1) プロジェクト目標

住民参加型林業を発展させることにより、林業における社会・経済の長期的な発展と森林資源の持続的保全を図ることを目的とする。

具体的には、セミナー、ワークショップ、訓練コース等の実施により、住民参加型林業を振興するための森林局職員の普及能力を向上させる。さらに、住民対象の訓練コース、普及活動等の実施により、住民による森林資源の有効活用、コミュニティベースの造林、村落コミュニティにおける所得増加等の促進が期待される。

(2) 実施場所

1) モービーのCFDTC

地理的利点、各種施設の整備等の利点により、現在あるCFDTCの施設が、訓練とプロジェクト計画を実施するための中心施設かつ本部となる。

2) 乾燥地サブセンター

CFDTCに加え、乾燥地域において訓練・普及のためのサブセンターを設置し、主に乾燥地の住民のニーズに合った訓練を実施することにより、住民の生活改善と環境保全に貢献することが期待される。

当該センターは比較的インフラの整備された地域、すなわち国家緑化プロジェクトを実施中の地域内に設置し、他援助機関による協力プロジェクトと重複しないよう配慮する。

(3) 実施方針

1) 協力の初期に、モデル苗畑、展示林等を含む乾燥地サブセンター施設が建設され、住民のための訓練、普及に活用されることを提案する。

2) モービーのCFDTCで実施してきた訓練コースは、フェーズIIの主要活動である普及に力点を置く方向で再編成する。

(4) 活動内容

1) 施設、設備

乾燥地における訓練・普及センターの建設、モデル苗畑と展示林の設置、給水設備付の恒久的な苗畑の乾燥地での設置

2) 訓練・普及活動

CFDTCでの林業普及・住民林業開発の訓練コースの実施、乾燥地サブセンターでのアグロフォレストリー等住民生活向上のためのコースの実施、種子・苗木の展示林での活用と乾燥地住民への配布、等

(5) 日本側への協力要請内容

- ・ 訓練・普及活動支援のための専門家派遣
- ・ 機材と車両の供与
- ・ 住民を含む中堅技術者対象の訓練・普及活動への経費補助
- ・ カウンターパートの日本での技術研修
- ・ CFDTICのサブセンターとしての乾燥地訓練・普及センターの建設（宿泊施設等関連設備を含む）
- ・ サブセンター周辺におけるモデル苗畑と展示林の設置

<長期専門家活動分野と人数>

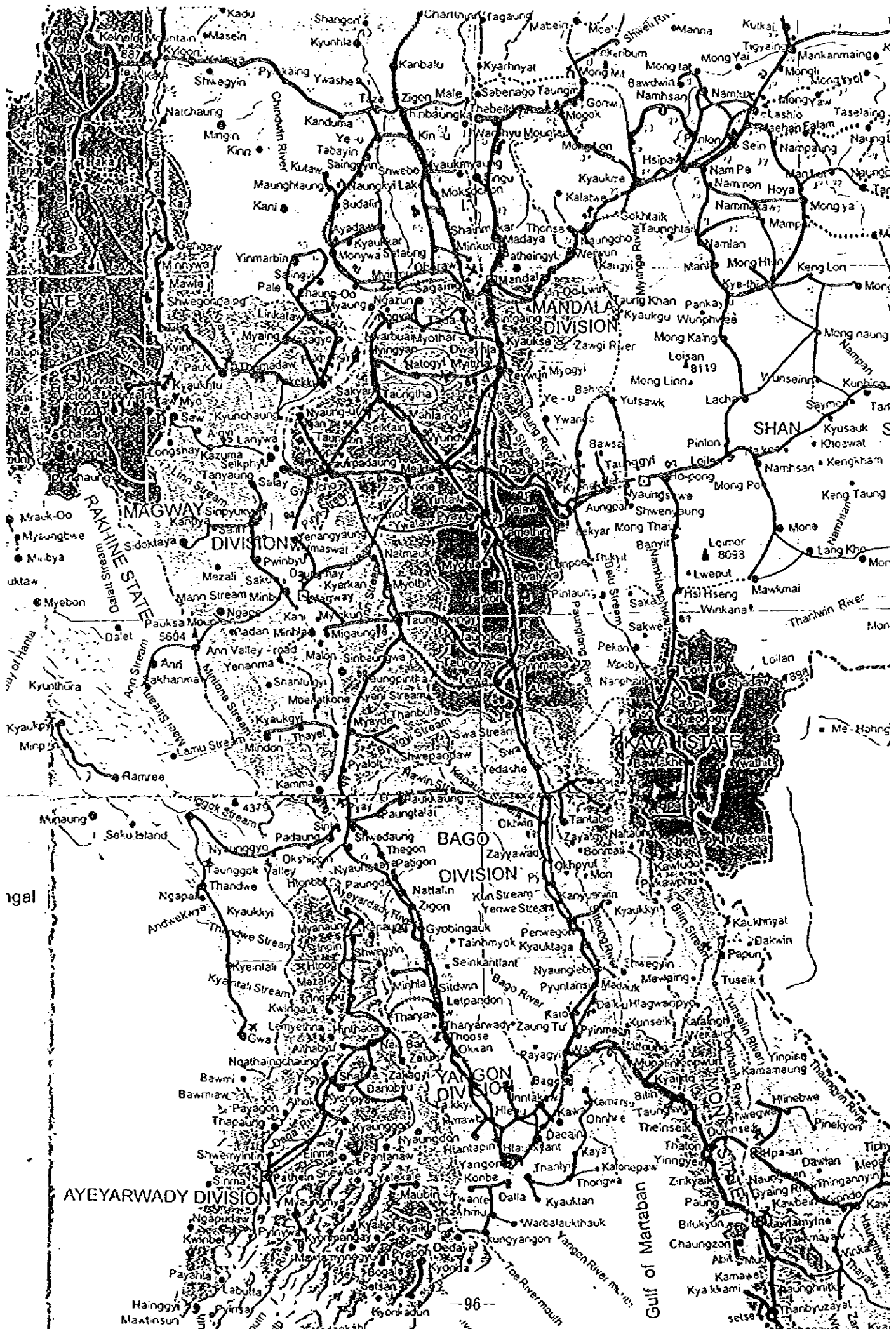
- チームリーダー： 1名
- 造林・苗畑： 1名
- 普及： 1名
- アグロフォレストリー：1名
- 業務調整： 1名

<要望機材>

- 苗畑用機材
- 造林用機材
- 普及用機材
- 車両
- その他

(6) 協力期間

1997年8月1日から2002年7月31日まで（5年間）



AYEYARWADY DIVISION

Gulf of Martaban

フェーズII要請書

GOVERNMENT OF THE UNION OF MYANMAR
MINISTRY OF FORESTRY
FOREST DEPARTMENT

Proposal and Request
for

CENTRAL FORESTRY DEVELOPMENT TRAINING CENTRE
PHASE II PROJECT
with
TECHNICAL AND GRANT AID
from
JAPAN

May , 1996.

Proposal and Request
for
Central Forestry Development Training Centre
Phase II project
with
Technical and Grant Aid
from
JAPAN.

Project Title : Central Forestry Development Training Centre
(Phase II)

Requesting Agency : Forest Department
Ministry of Forestry
The Union of Myanmar

Proposed Source of Assistance : The Government of Japan

1. Introduction

The Union of Myanmar with 344,237 Km² or 51 percent of its total area covered with forests, is among the few Asian countries which are still rich in natural forest resources. With a wide range of climatic, physio-graphic and ecological variations the country has a rich variety of forest types.

These great forests, since time immemorial, have continuously satisfied the enormous domestic needs and are indispensable sources for the export trade. For many years they have systematically been managed in order to maintain the socio-economic development in the forestry sector and also to fulfil the important functions for environmental conservation and recreation. Of late, primarily because of the population growth, the demand for forest resources has vastly increased in Myanmar and the Forest Department, in its endeavour to satisfy both the domestic and export requirements and prevent the degradation of its forests, has increased its trained staff. Training for various levels of the staff has been upgraded to establish more forest plantations and also to effectively protect and conserve the forests and other natural resources including wildlife.

For effective and systematic establishment, protection and management of the vast forest lands it is essential not only to introduce new recruits to the basic forestry training courses, but also to provide special forestry technology training sessions in the respective fields for Forest Department personnel at various levels. To effectively manage the forests of today, participatory and collaborative aspects of the local or rural community is to be emphasized. The need to provide forestry extension courses for forestry staff and community forestry development courses for the public, especially the rural community, is also fully recognized now.

Myanmar has a long tradition of community participation in forestry development. Large areas of teak plantations were established in the past through the taungya system, derived from a cultivation practice of the shifting nature, where farmers planted trees, maintained them together with food crops and abandoned the planted areas for tree growth when crop cultivation was not feasible anymore.

Traditionally in large part of Myanmar, a close relationship exist between farming communities and the forests and farmers are very much dependent on forest resources to ensure their household food security and environmental stability around their farms. As a result, villagers have developed diverse sets of traditional rights and indigenous management systems to manipulate the use of natural resources in different parts of Myanmar.

The strategy of the traditional participatory forestry, though mutual in nature, is aimed more at the successful establishment of forest plantations and is not adequate to sustain community sufficiency and stability. Largely due to the population growth, unguided use of natural resources has been experienced in parts of the country. Food security and household requirements of once environmentally stable villages are becoming questionable. Production base of natural resources is being threatened in certain localities because of the insufficiency in management and guidance. As a result forest degradation around villages and beyond is becoming a reality.

To prevent forest degradation and, at the same time, ensure supply of forest products to villagers through massive Government funded programmes will be very expensive and will require an unrealistically huge forestry administration. The Government of Myanmar presently has resource constraints due to a number of overriding development priorities and the present forest service is already overstretched and does not have the capacity to execute such a massive programme. Therefore, a less expensive strategy which could be implemented by a modest and compact forestry administration has become imperative. Such strategy should exist in the form of an efficient forestry extension programme with the capability to activate and mobilize people's participation in community forestry development.

Recognising the need for implementing forestry programme based on people's participation the Government of the Union of Myanmar has initiated participatory forestry projects in different parts of the Country. Introduction in forestry extension education and training in the social aspect of forestry become essential components of forestry training. It is, therefore, deemed appropriate that the forestry training programme be widened and upgraded to include the curriculum for short and long term community forestry training and reorientation courses for Forest Department personnel at various levels and community members.

2. Project Background

The Central Forest Development Training Centre (C.F.D.T.C) project with financial and technical aid from the government of Japan and under the responsibility of the Forest Department was founded as an Institution for the provision of skilled forestry personnel and the extension of forestry education to the public through training programmes. These programmes include courses on the latest techniques in the establishment, conservation and management of forests and those on advanced forestry technologies which initiate the adoption of up-to-date methodology with the application of modern forestry equipments and machineries.

The Government of Japan had generously contributed J ¥ 2725 millions (kyats 126.6 millions) in Grant Aid and the Government of Myanmar set aside kyats 66.3 millions for the construction and installation of machineries and equipments for the Training Centre. The Centre was formally opened on May 15, 1990 and the various types of training courses have been conducted continuously since. To meet the objectives of the technical training courses as well as those of the public educational courses implementation of the 5-year

Technical Cooperation Programme (TCP) commenced on August 1, 1990 with continued aid from the Government of Japan and in accordance with the Record of Discussion signed by both parties on March 23, 1990.

During the 5-year period of the Technical Cooperation Programme the Government of Japan, through Japan International Cooperation Agency (JICA), provided financial and technical assistance which covered the three main functions of the programme, namely (i) assignment of Japanese Experts to assist in the training programmes (ii) provision of supplementary equipments and training materials, and ;(iii) training of Myanmar Counterparts in Japan.

Apart from the main expenses the Government of Japan took necessary measures through JICA to supplement a portion of local expenditure in conformity with the supplementary note of Record of Discussion of the TCP which was first signed on September 25, 1991 and renewed annually. The financial contribution covered; (i) expenditures for the training programme of intermediate level manpower which include travelling allowances related to field training for instructors and trainees, special instructors' fees, training materials, etc.; and (ii) expenditure for the establishment of physical infrastructure such as construction of nursery, forest roads, etc.; in the Training Forest which was set aside for the centre to conduct realistic practices in the various fields of forestry training, both technical and participatory.

After the termination of the 5- year period of the Technical Cooperation Programme on July 31, 1995 the Government of Japan, on request , continued to provide assistance to the programme which, according to the Record of Discussion signed on May 22, 1995 was extended in the form of the Follow-up programme with a duration of 2 years from August 1, 1995 to July 31, 1997.

In the Follow-up period Myanmar side is expected to gradually take over more responsibilities for in-service training courses which are focused on basic bio-physical science and technical forestry so that the Technical Cooperation Programme can place more emphasis on forestry extension and participatory community development strategies. The effectiveness of the scheme will be limited in accordance with the scope and magnitude of its involvement, but will surely create a threshold for the emergence of a larger and more adequate training and extension programme which can substantially accelerate the community forestry development process in Myanmar .

3. Objectives of the project

The main objective of C.F.D.T.C Phase II project is to strengthen training and extension abilities in Forestry and Community Forestry Development in order to promote participatory forestry and contribute to the long term objectives of socio-economic development in the forestry sector and sustainable conservation of forest resources in the Union of Myanmar.

The immediate objectives of the project are to-

- (1) Organize training courses, workshops and seminars for Forest Department personnel at various levels to develop their extension capacity and skill to motivate and enhance the participation of local communities, and to promote their ability to guide community residents in development activities.
- (2) Conduct training courses and extension activities for community members to provide guidance in the rational utilization of natural forest resources, establishment

and management of community-based forest plantations, and create improved income generating opportunities for the rural communities down to the grassroots level.

The programme is grassroots oriented and framed within the context of long term environmental sustainability. It is aimed at the far-sighted objectives to promote socio-economic development in the rural communities and to enhance the prospect for sustainable environmental regeneration and conservation.

4. Location

To meet the objectives of the project the training and extension programmes will be implemented at two strategic locations.

4.1 Central Forestry Development Training Centre , Hmawbi

The C.F.D.T.C. training complex at Hmawbi will continue to be the main Centre and Headquarters for the training and development programmes. Apart from the excellent structural and supporting facilities, the Centre has a strategic location from which observation tours can be conducted to other related agencies . The Training Forest near the Centre , together with its physical infrastructure and forestry development examples, can be utilized to conduct realistic practices in the various fields of training and to demonstrate the model of community forestry for extension.

4.2 Dry-zone Sub-Centre

Apart from the main Centre at Hmawbi, a Training / Extension Sub-Centre is proposed to be established in the critical dry zone the greening of which has gained top national priority and the focal point for the phase II project. It is a strategy to expand and reach out to the disadvantaged rural communities in the critical areas and cater for their training needs to improve the socio-economic well-being of the rural residents, encourage community participation , and promote environmental conservation awareness.

The Centre should necessarily be located within the National Greening Project area of the 9 critical districts; will be accessible with relatively developed infrastructure; and it will not overlap with other bilateral or multilateral projects.

5. Strategies

During the 5- year period of the C.F.D.T.C phase II project emphasis will be placed on training and extension for Community Forestry Development Strategies with special priority for the critical areas of the dry zone. The planned operations are as follows.

5.1 Dry zone Sub-Centre

In the initial stage of the project a Training / Extension Centre is proposed to be established in the dry zone complete with the necessary infrastructure and provided with a model nursery and demonstration forest around the Sub-Centre.

This Centre will provide for the training needs of village leaders and community residents in the dry zone and it is expected that new knowledge and experience will be disseminated to the villages throughout the critical areas of the dry-zone by these leaders and extension staff. Some extension staff who have been trained at CFDTTC in Hmawbi are to be stationed at this Sub-Centre as Counterparts of the phase II project to carry out training and

extension activities. The model nursery and demonstration forest will be utilized not only for training and extension purposes, but also to provide healthy seedlings for the dry zone reforestation programme.

5.2 C.F.D.T.C, Hmawbi

The training programme at CFDTC in Hmawbi will be reorganized and reformulated in accordance with the requirements of the extension oriented objectives of the phase II project. The scheme will include the followings.

- (1) The existing in-service training courses under the Technical Cooperation Programme namely, Plantation Techniques, Nursery Practices, Forest Protection and Forest Machinery will be transferred to and placed entirely under the responsibility of the Forest Department.
- (2) The two public training courses, Agroforestry and Forestry for Local Community Development will remain under the technical cooperation scheme for community residents in lower Myanmar.
- (3) New Forestry Extension training courses and seminars for Forest Department personnel will be organized and conducted under the Technical Cooperation of the second phase.

6. Activities

Project activities are designed to meet the objectives of the project and are composed of Development and Training / Extension activities.

6.1 Development Activities

- (1) Establishment of the Dry-zone Training and Extension Centre with structural and supporting training facilities in the initial stage of phase II project.
- (2) Construction of a model nursery and establishment of a demonstration forest with agroforestry functions and opportunities around the Centre.
- (3) Establishment of several permanent nurseries, preferably 10-units, complete with water supply and nursery facilities at prioritized locations in the central dry zone.

6.2 Training and Extension Activities

- (1) Forestry Extension and Community Forestry Development training courses will be conducted for Forest Department personnel at C.F.D.T.C in Hmawbi. These courses include subjects not only for the development of their extension capacity, but also to improve their technical skill in nursery practices and propagation techniques of multipurpose species, proper utilization of forest products and aspects of farm forestry and agroforestry practices to provide support to the community development process.

- (2) Public Training Courses with cross farm visit programmes will be conducted and organized for dry zone community members at the newly established Dry-zone Training / Extension Sub-Centre. The courses and programmes are to encourage agroforestry system for improved agricultural production and better rural life, and promote people's awareness to the importance of forest conservation. Public Training Courses for lower Myanmar will be conducted at C.F.D.T.C in Hmawbi.
- (3) Seeds and seedlings will be used in the Demonstration Forest and also distributed to the dry zone community residents. Extension services and guidance programmes will be provided for the establishment and management of community based forest plantations to meet the daily requirements of fuelwood, develop environmental greening effects and enhance the prospect for sustainable environmental regeneration and conservation.

7. Requested Assistance

Under the project-type technical cooperation scheme between the Governments of the Union of Myanmar and Japan financial and technical assistances are requested for the following implementation items of the project.

- (1) Dispatch of Experts to assist in the implementation of the training and extension programmes.
- (2) Provision of technical equipments, machineries and vehicles.
- (3) Subsidies for middle level man power training programme inclusive of participating local community members and extension programmes for local people.
- (4) Acceptance of Counterparts for training in Japan.
- (5) Construction of the Dry-zone Training/Extension Centre, a Sub-Centre of C.F.D.T.C, complete with training and lodging facilities and related equipments.
- (6) Establishment of a model nursery and demonstration forest near the Sub-Centre and several permanent nurseries through out the dry-zone.

The proposed C.F.D.T.C phase II project is a project-type technical cooperation, however to accomplish the development goals in the early stage of the project integration of the Grant Aid programme and project-type technical assistance is highly desirable. Grant Aid is therefore requested for the construction of 10 permanent nurseries to be established throughout the dry zone.

8. Implementation programme.

To foster the smooth implementation of the programmes under the C.F.D.T.C. phase II project the following measures are proposed.

8.1 Long - term Experts.

The Long-term Experts requested for the C.F.D.T.C phase II project are as follows.

Sr. No.	Field of Expertise	Number	Station
1.	Project Team Leader	1	Hmawbi
2.	Nursery and Silviculture	1	Hmawbi
3.	Extension	1	Hmawbi
4.	Agro - forestry	1	Hmawbi
5.	Liaison officer	1	Ahlong
	Total	5	

The Experts will be stationed in Hmawbi and make visits to the Dry-zone Centre to render advice and assistance to the Counterparts stationed there.

8.2 Local staff assigned as Counterparts

The following Counterparts will form the nucleus of local staff at the respective Centres.

C.F.D.T.C Hmawbi

Sr. No.	Assigned Duty	Number	Station
1	Project Director	1	Hmawbi
2	Deputy Project Director	1	Hmawbi
3	Counterparts in specialized fields	8	Hmawbi
	Sub - total	10	

Dry - zone Sub - Centre

Sr. No.	Assigned Duty	Number	Station
1	Deputy Project Director	1	Dry zone
2	Assistant Director	1	Dry zone
3	Counterparts in specialized fields	8	Dry zone
	Sub - total	10	

8.3 Equipments, machineries and vehicles

Equipments, machineries and vehicles requested are ;

No.	Particulars	Qty
1	Nursery equipments and machineries (water pumps, sprinkler systems etc.)	1 lot
2	Silvicultural machines and tools (Tractor, ripper, hand tools, etc.)	1 lot
3	Extension materials (Audio - visual equipments, printing and slide production equipments)	1 lot
4	Vehicles - 4 - wheel drive Land Cruiser for experts - 4 - wheel drive multi-purpose pick-up Trucks, Dry zone Centre - Audio-Visual Van - Dumper trucks for nursery and demonstration forest - 35 - Seat bus for trainees, Dry zone Centre - Water bowser	1 no. 2 no. 1 no. 2 no. 1 no. 1 no.
5	Other equipments	1 lot

8.4 Counterpart training

No.	Field of study	Number	Man-month
1	Study tour - Administrative Level study tour - Technical exchange programme observation tour.	3 4	3 4
2	Individual and group training In the fields of Extension, Social Forestry, Nursery, Silviculture, Forest Management, Forest Resources, Soil Conservation, Watershed Management, Community Forestry etc.	22	88
3	Post - grad study / fellow ship	3	72
	Total	32	167

8.5 Building Construction

(1) Sub-Centre for Training and Extension, Dry- zone.

Construction of buildings for Office, Training and Lodging will be made in the premises of the Centre with all the required facilities in the initial stage of phase II project.

(2) Nursery

A model nursery will be constructed with all the standard equipments and facilities near the Sub-Centre.

(3) Demonstration Forest

A demonstration forest with agroforestry characteristics and functions will be established in the surroundings of the Sub-Centre.

(4) Permanent Nurseries

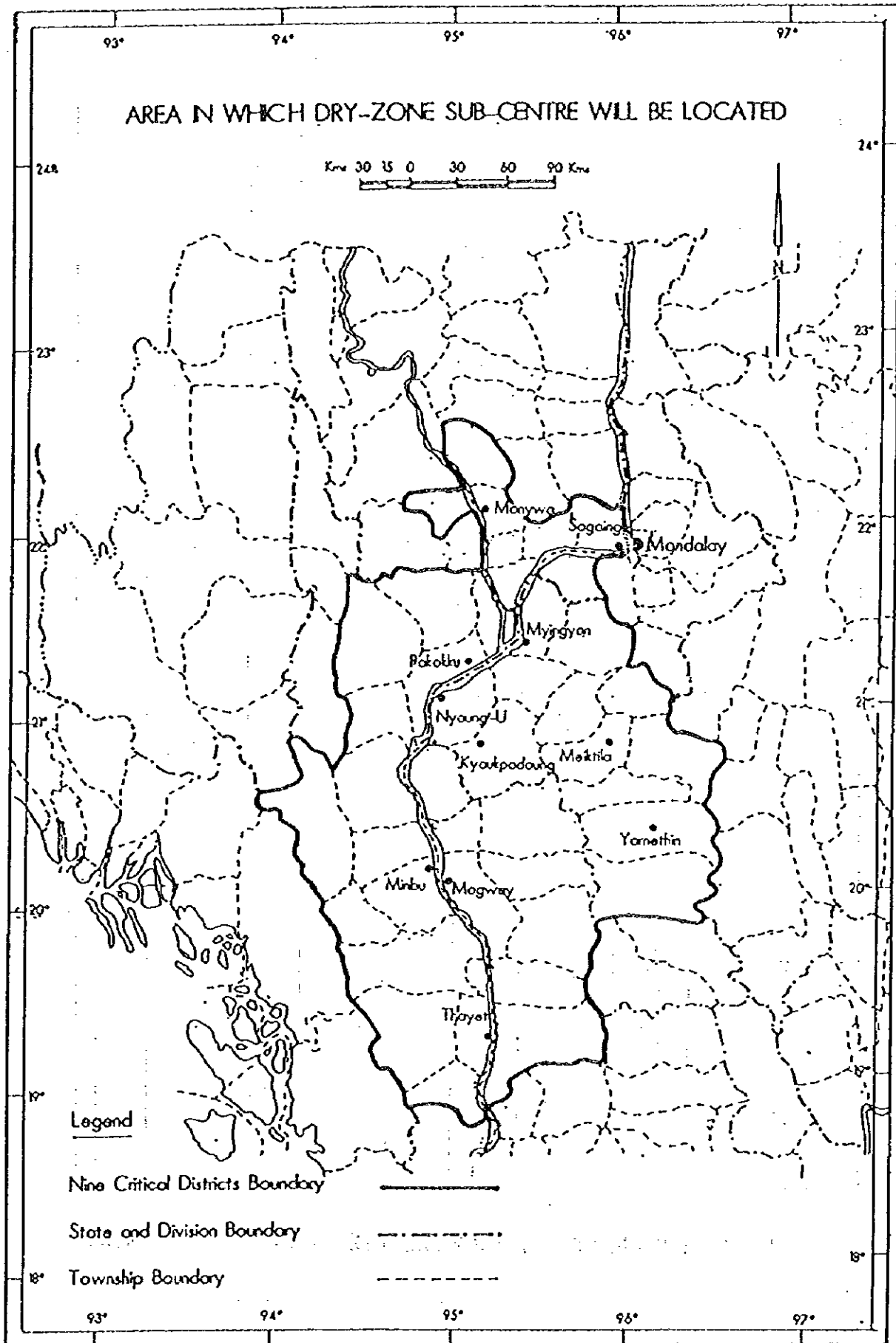
Several permanent nurseries will be constructed in different locations of the dry zone in order of their priority of need.

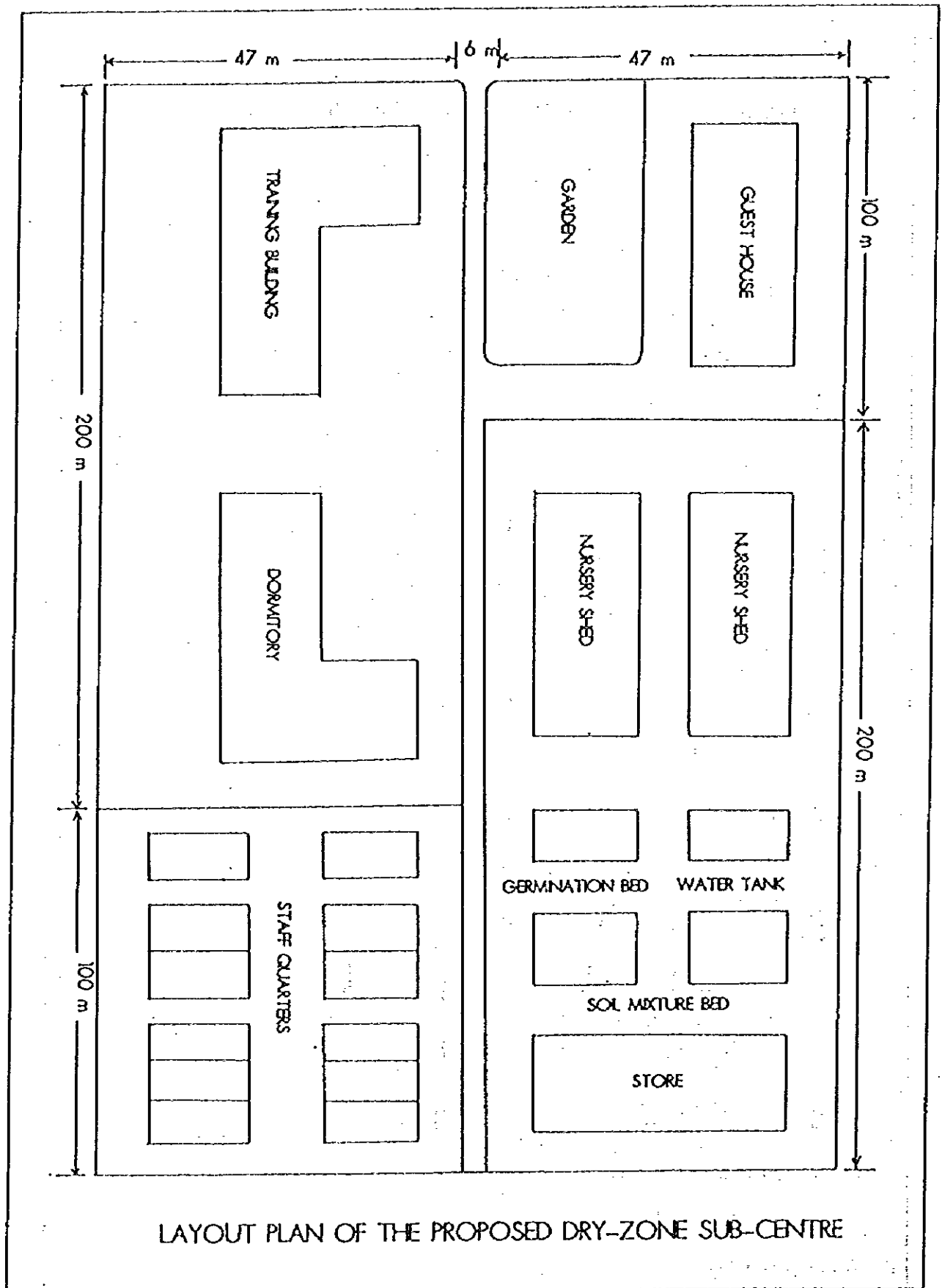
9. Period of phase II project.

The proposed duration of the C.F.D.T.C phase II project is 5 years, from 1 August, 1997 to 31 July, 2002. The project is expected to commence immediately after the termination of the Follow-up programme of phase I project.

10. Budgetary Requirements

No.	Particular	Qty	Estimated Cost	
			Government of Japan Million yen	Government of Myanmar Million kyat
1.	Project type Technical Cooperation		730	27
	1- Experts and specialists	360 mm	250	
	2- Equipment and vehicles		180	2.5
	3- Training supports		50	13.0
	4- Counterpart Training	167 mm	80	
	5- Extension material		20	2.0
	6- Building construction (for Extension Centre)	1	50	4.5
	7- Instruments and equipments for Centre		30	2.0
	8- Nursery construction at Centre	1	25	1.0
	9- Establishment of Demonstration forest	1	25	1.0
	10- Machinery and tools for Nursery and Demonstration Forest		20	1.0
2.	Grant Aid		300	
	1- Permanent Nurseries (10 units)	10	300	
	Total		1030	27





LAYOUT PLAN OF THE PROPOSED DRY-ZONE SUB-CENTRE

国家開発計画（林業部分抜粋）

Five Year Short-Term Plan Targets (1996/97 to 2000/2001)

60. Due to all-out efforts made with patriotism, various difficulties were overcome resulting to the overfulfilment of Four Year Short-Term Plan targets, with average annual growth rate of 8.2 per cent and creating favourable economic conditions. With a view to strengthening the favourable condition and sustaining growth for long-term development, Five Year Short-Term Plan from 1996/97 to 2000/2001 was coordinated and formulated under the guidance of the State Law and Order Restoration Council. The main objectives of the Five Year Short-Term Plan are as follows:

- (1) To strive for the realization of the four economic objectives
- (2) To strive for sustained and stable growth of the economy
- (3) To strive for the provision of basic infrastructural facilities both social and economic
- (4) To ensure harmonious intersectoral consistency among the productive sectors and between productive, services and trade of the economy

61. In order to realize the above objectives, the Five Year Short-Term Plan targets have been formulated in co-ordination with the agencies and organizations concerned. Based on the prevailing internal and external economic situation and performance of 1995/96 annual plan, the Ministry of National Planning and Economic Development prepared macro-economic plan targets as a frame-work, and submitted to the State Law and Order Restoration Council for approval. Then the ministries concerned submitted the plan proposals by ministry-wise, national wise, state and division wise to the Ministry of National Planning and Economic Development which evaluated and co-ordinated the plan proposals with the ministries and formulated the national and regional plan targets.

62. The major targets of the Five Year Short-Term Plan are:-

- (1) GDP at 1985/86 constant prices is projected at K 91798 million in 2000/2001, the last year of the Five Year Short-Term Plan and is to increase at an average annual rate of 6.0 per cent.
- (2) During the Five Year Short-Term Plan, net output value of the major productive sectors is estimated to increase at an average annual rate of 5.4 per cent in agriculture sector, 5.8 per cent in livestock and fishery sector, 2.8 per cent in forestry sector, 18.5 per cent in mining sector and 7.4 per cent in processing and manufacturing sector respectively.
- (3) In 2000/2001, the last year of Five Year Plan, it is estimated that the component in GDP of productive sectors to be 62.2 per cent, services sector to be 17.3 per cent and trade sector to be 20.5 per cent respectively.

- (4) Total investment allocated for the five years is K.419.6 billion comprising K.179.0 billion, or 42.7 per cent of total investment by the State sector and K.240.6 billion, representing 57.3 per cent by the cooperative and private sectors respectively.
- (5) In 2000/2001 the export target is set at K15.8 billion with the growth-rate of 165.4 per cent over provisional data of 1995/96, or average annual growth rate of 21.6 per cent.
- (6) In 2000/2001 the import target is set at K18.8 billion with the growth rate of 90.0 per cent over provisional data of 1995/96 or average annual growth rate of 13.7 per cent.
- (7) Per capita net output for the year 2000/2001 is projected at K.1873 at 1985/86 constant prices and to increase by 4.1 per cent annually.
- (8) Per capita consumption for the year 2000/2001 is projected at K 1408 at 1985/86 constant prices and to increase by 4.0 per cent annually.

63.
targets.

The following measures will be adopted to achieve the above mentioned plan

- (1) To strive for more foreign exchange earnings not only from export of goods but also from services.
- (2) To strive for achieving balanced budget in order to stabilise the value of the Kyat.
- (3) To promote educational and health activities for the human resources development, special emphasis to be given to science, technology and vocational education.
- (4) To strive for the balanced regional development.
- (5) To place emphasis on industries producing value-added commodities
- (6) To find ways and means to provide sufficiency in the supply of energy and major inputs.
- (7) To make efforts to improve the economic infrastructure such as transportation, communications and port facilities etc.
- (8) To adopt financial and monetary policies for effective utilization of natural and financial resources.

- (9) To strive for increased in-flow of investment and technology from internal and external sources, and to allocate these investments in long-term development projects.
- (10) To give emphasis on conservation of environments in implementing development projects.

Annual Plan Targets for 1996/97

64. Concerted efforts should be made for the over fulfilment of annual plan targets of 1996/97, the first year of Five Year Short-Term Plan. For the remaining four years, annual plans are to be drawn up annually based on the changing situation and other conditions

Major plan targets for 1996/97 annual plan are as follows:-

- (1) GDP at 1985/86 constant prices is estimated at K 72.7 billion and to increase by 6.1 per cent.
- (2) The plan targets set for net output value of the major productive sectors at 1985/86 constant prices are:-
 - The agriculture sector is projected at K 27664 million and to increase by 5.4 per cent.
 - The livestock and fishery sector is projected at K 4951 million and to increase by 4.5 per cent.
 - The forestry sector is projected at K 759 million and to increase by 2.6 per cent.
 - The mining sector is projected at K 1034 million and to increase by 13.8 per cent.
 - The processing and manufacturing sector is projected at K 7120 million and to increase by 10.4 per cent.
- (3) The component of productive sectors in GDP is 61.9 per cent, services sectors is 16.8 per cent and trade sector is 21.3 per cent.
- (4) Total investment is projected at K 73518 million comprising K 29001 million by the State sector and K 44517 million by co-operative and private sectors.
- (5) The export target is set at K 6540 million.

- (6) The import target is set at K 10440 million.
- (7) Per capita net output is projected at K 1595 at 1985/86 constant prices and to increase by 4.1 per cent.
- (8) Per capita consumption is estimated at K 1213 at 1985/86 constant prices and to increase by 4.7 per cent.

5. The successful implementation of annual plan for 1996/97, the first year of the Five Year Short-Term Plan will create favorable conditions for the successful implementation of the Five Year Plan. Therefore, efforts should be made to enhance the momentum in order that the national economy is placed on the course of long-term development basing on the experiences in successfully implementing the Four Year Short-Term Plan. For the successful implementation of the plan targets, it is necessary to effectively mobilize national productive resources and to adopt ways and means for active participation by the people. Constant supervision and close coordination among the implementing agencies and organizations concerned are also crucial.

During Five Year Short-term Plan
Extension of Reserved Forest Target

(10,000 ha)

Sr. No.	Particulars	1995-96 (Based Year)	Five Year Short-term Plan				
			1996-97	1997-98	1998-99	1999-2000	2000-2001
1	2	3	4	5	6	7	8
1.	Forest area in Myanmar	3441	3441	3441	3441	3441	3441
2.	Reserved Forest at the beginning of the year	1031	1040	1053	1058	1063	1068
3.	Reserved forest to be extended during the year	9.6	12.6	5.1	4.8	5.3	4.6
4.	Cancellation of reserved forest during the year	0.3					
5.	Reserved forest at the end of the year	1040	1053	1058	1063	1068	1073
6.	Percentage of Reserved Forest of the Total Forest Area (%)	30.22	30.59	30.74	30.88	31.03	31.17

Source of Data - Ministry of Forestry

During Five Year Short-term Plan
Establishment of Teak & Pyinkado Plantation Target

Sr. No.	Particulars	Unit of Measure	1995-96 (Based Year)	Five Year Short-term Plan				
				1996-97	1997-98	1998-99	1999-2000	2000-2001
1	2	3	4	5	6	7	8	9
1.	<u>Teak</u> Seedling	Number of Seedling (in Thousand)	1024	896	933	954	978	1000
2.	Area	ha	9214	8068	8393	8587	8798	8996
1.	<u>Hardwood</u> Seedling	Number of Seedling (in Thousand)	2576	2794	2847	2916	2982	3050
2.	Area	ha	23186	25142	25627	26243	26842	27454

During Five Year Short-term Plan

Forest Maintenance Operation Target

Sr. No.	Particulars	Unit of Measure	1995-96 (Based Year)	Five Year Short-term Plan					2000-2001
				1996-97	1997-98	1998-99	1999-2000	2000-2001	
1	2	3	4	5	6	7	8	9	
1.	Girdling	Tree (in thousand)	144	150	150	150	150	150	
2.	*Selected felling marking	Tree (in thousand)	613	714	714	714	714	714	
3.	Artificial Regeneration	ha (in thousand)	32.4	33.2	34	34.8	35.6	36.5	
4.	Natural Regeneration	ha (in thousand)	8.9	8.9	8.9	8.9	9.3	9.3	
5.	Improvement Felling	ha (in thousand)	11.3	11.3	11.3	11.3	11.3	11.3	
6.	Weeding	ha (in thousand)	125	151	161	164	168	171	
7.	Thinning	ha (in thousand)	17	38.9	36.9	32	23.5	38.5	
8.	Climber cutting and felling of ficus-bound trees	ha (in thousand)	116	121	125	130	134	134	
9.	Forest Road repairing	km	2429	2427	2451	2454	2456	2456	
10.	Reserved Boundary repairing	km	2309	2365	2376	2414	2416	2416	
11.	Compartment Boundary repairing	km	2232	2232	2285	2336	2389	2400	
12.	Fire Protection	ha (in thousand)	140	149	141	158	171	175	

* including Green Teak marking

Forest Product Production Target

Sr. No.	Particulars	Unit of Measure	1995-96 (Based Year)	Five Year Short-term Plan					(in thousand)
				1996-97	1997-98	1998-99	1999-2000	2000-2001	
				5	6	7	8	9	
1.	2		4						
1.	Teak	M ³	362	312	326	326	326	354	
2.	Hardwood - For Trade	M ³	1570	1828	1844	1931	1947	2035	
	(1) Myanmar Timber Enterprise (MTE)	M ³	740	994	994	1065	1065	1136	
	(2) Cooperative - Own Use	M ³	739	991	991	1062	1062	1133	
		M ³	1	3	3	3	3	3	
		M ³	830	834	850	866	882	899	
3.	Teak & Hardwood Post	No of Log	55	57	61	66	75	84	
4.	Teak & Hardwood Pole	No of Log	722	748	773	815	841	912	
5.	Firewood	M ³	25554	25154	25629	26118	26618	27105	
	- For Trade	M ³	603	615	630	651	677	691	
	- Own Use (domestic use)	M ³	24951	24539	24999	25467	25941	26414	
6.	Charcoal	M ³	402	405	425	453	467	513	
7.	Bamboo	In Million Nos	953	985	1010	1032	1059	1088	
	- For Trade	In Million Nos	144	153	162	169	180	192	
	- Own Use	In Million Nos	809	832	848	863	879	896	
8.	Cane	In Million Nos	74	80	84	88	95	105	
	- For Trade	In Million Nos	51	56	59	63	69	79	
	- Own use (domestic use)	In Million Nos	23	24	25	25	26	26	
9.	Cutch	Kg	210	231	246	261	275	297	
10.	Bark	Kg	968	1040	1074	1161	1236	1302	

11.	Sterculia Fibre Rope (Shaw) - For Trade - Own use	Kg	386	409	422	435	450	466
		Kg	65	70	77	83	91	101
		Kg	321	339	345	352	359	365
12.	Indwe/ Pwenyet	Kg	875	934	980	1017	1087	1107
13.	Limonia Acidissima (Scentic bark - Thanakha)	Kg	398	409	417	434	453	474
14.	Roofing Thatch	Kg	1508	1309	1335	1361	1389	1420
15.	Bat guana	Kg	264	269	279	289	298	306
16.	Orchid Plant	No. of Tree	15	15	15	15	15	15
17.	Sealing Wax (Lac.)	Kg	271	272	280	280	280	289
18.	Thinbaung (Phoenix paludosa)	No	58	1958	1959	1960	1960	1962

• Under 500 Viss

Indwe = gum produced from Shorea Oblongifolia and Pentacme Siamensis
Pwenyet = bee (Melipona species) dammar

Reserved Forest Area

(10,000 ha)

Sr. No.	Year	Reserved forest area at the beginning of the year	Extension of reserved forest area during the year	Reserved forest area written off during the year	Reserved forest area at the end of the year
1	2	3	4	5	6
1.	1961/62	899			899
2.	1969/70	903	1.76		905
3.	1971/72	911	17.30		928
4.	1973/74	960	9.60		970
5.	1977/78	987	5.69		992
6.	1981/82	994	0.85		995
7.	1982/83	995			995
8.	1983/84	995	0.39		995
9.	1984/85	995	6.42		1001
10.	1985/86	1001	1.24	0.13	1003
11.	1986/87	1003	2.69		1005
12.	1987/88	1005	0.73		1006
13.	1988/89	1006	0.96	0.05	1007
14.	1989/90	1007	10.23	2.38	1015
15.	1990/91	1015		0.49	1014
16.	1991/92	1014	2.66		1017
17.	1992/93	1017	2.53	0.36	1019
18.	1993/94	1019	6.00	1.00	1024
19.	1994/95	1024	7.22	0.39	1031
	(Provisional actual)				
20.	1995/96	1031	9.60	0.34	1040
	(Provisional)				

Production of Other Selected Forest Products

Sr. No.	Particulars	Unit	1992/93	1993/94	1994/95 (Provisional actual)	1995/96 (Provisional)
1	2	3	4	5	6	7
1.	Teak and hardwood post	Thousand nos.	121	57	55	55
2.	Teak and hardwood pole	"	929	803	692	722
3.	Firewood	Thousand Cubic Meter	25492	25471	25550	25555
4.	Charcoal	"	1134	592	419	402
5.	Bamboo	Million nos	940	919	933	953
6.	Cane	"	81	81	82	74
7.	Cutch	Thousand viss	166	331	256	210
8.	Bark	"	1110	2533	2722	968
9.	Shaw	"	430	388	368	386
10.	Karamet	"	85	64	41	28
11.	Indwe-pwenyet	"	807	831	1183	875
12.	Thanakha	"	468	492	357	398
13.	Pine resin	"	179	11	20	
14.	Roofing sheets	Million nos.	922	928	908	925
15.	Bat guano	Thousand viss	302	240	324	264
16.	Orchids plants	Thousand nos.	106	16	8	15

Conservation of Forests

Sr. No.	Particulars	Unit	1992/93	1993/94	1994/95 (Provisional actual)	1995/96 (Provisional)
1	2	3	4	5	6	7
1.	Artificial regeneration	Thousand ha	31	31	22	32
2.	Natural regeneration	"	8	7	8	9
3.	Improvement fellings	"	14	9	8	11
4.	Weedings	"	157	154	134	123
5.	Thinnings	"	15	15	13	17
6.	Climber cutting	"	128	109	118	114
7.	Repairs of forest road	Km	2520	2282	1782	2429
8.	Repairs of reserve boundary	"	2102	2402	2362	2309
9.	Repairs of compartment boundary	"	2306	2139	2090	2232
10.	Fire protection	Thousand ha	159	150	151	139

Plantation of Hardwood Trees

(in 1,000 ha)

Sr. No.	Particulars	Unit	1992/93	1993/94	1994/95 (Provisional actual)	1995/96 (Provisional)
1	2	3	4	5	6	7
1.	Area at the beginning of the year	ha	231.58	249.06	269.06	286.98
2.	Area planted during the year	ha	17.48	20.00	17.90	22.90
3.	Area at the end of the year	ha	249.06	269.07	286.98	309.88
4.	Thinnings undertaken during the year	ha	8.35	8.19	7.15	9.20

Plantation of Teak Trees

(in 1,000 ha)

Sr. No.	Particulars	Unit	1992/93	1993/94	1994/95 (Provisional actual)	1995/96 (Provisional)
1	2	3	4	5	6	7
1.	Area at the beginning of the year	ha	198.9	212.7	223.3	227.7
2.	Area planted during the year	ha	13.7	10.6	4.4	9.1
3.	Area planted at the end of the year	ha	212.7	223.3	227.7	236.8
4.	Thinnings undertaken during the year	ha	6.8	6.7	5.9	7.5

Production of Teak and Hardwood

(Thousand Cubic Meter)

Sr. No.	Year	Teak	Hardwood			
			State	Co-operative	Private	Total
1	2	3	4	5	6	7
1.	1939/40	632.95*			676.85	676.85
2.	1947/48	386.16*			550.82	550.82
3.	1961/62	370.99**			1297.06	1297.06
4.	1969/70	426.22	866.59		424.80	1291.39
5.	1971/72	412.06	1013.86		455.95	1469.81
6.	1973/74	284.62	632.95		491.35	1124.30
7.	1977/78	447.46	521.09		628.70	1149.79
8.	1981/82	617.38	821.28		705.17	1526.45
9.	1982/83	598.97	805.70		775.97	1581.67
10.	1983/84	518.26	635.78		756.14	1391.93
11.	1984/85	543.74	802.87		821.28	1624.15
12.	1985/86	531.00	746.23		843.94	1590.17
13.	1986/87	474.36	625.87		851.02	1476.89
14.	1987/88	451.70	539.49		842.52	1382.02
15.	1988/89	412.06	564.98		893.50	1458.48
16.	1989/90	553.66	750.48	5.66	1137.05	1893.19
17.	1990/91	623.04	917.57	14.16	1251.74	2183.47
18.	1991/92	512.59	923.23	8.50	1255.99	2189.14
19.	1992/93	482.87	883.58	4.25	1120.06	2007.89
20.	1993/94	470.11	1008.19	2.83	1226.26	2237.28
21.	1994/95	385.15	724.99	4.25	994.03	1723.27
	(Provisional actual)					
22.	1995/96	362.50	739.15	1.42	829.77	1570.34
	(Provisional)					

* Extracted by private sector.

** Includes 12,000 cubic tons extracted by private sector.

Note:- Extraction of hardwood by private sector includes personal use.

JICA