

資料 4. 研修訓練計画資料

資料 4-1 研修対象者(母集団)

1. 各コースの対象者等

| 場所  | コース          | 対象者<br>(人) | 積算<br>内訳  | 備考   |
|-----|--------------|------------|---|--|
| ムクガ | 1 社会林業再訓練 I  | 約 20       | PFO: 8人, asst.PFOクラス8人以上  | PFO(Provincial Forest officer)<br>asst.PFO(assistant PFO)  |
|     | 2 社会林業再訓練 II | 約 200      | DFO: 41人, DFO候補者( asst. conservator of forest<br>(大卒)で経験年数5年以上の者(推定)30人/年・採用<br>×5年間=150人                                   | DFO(District Forest officer)   |
|     | 3 普及員ワークショップ | 約 350      | DsFEO: 41人, DuFEO: 215人, NGO組織数を40<br>(各Districtに1 groupと推定, 代表各1人)   | DsFEO(District Forest<br>Extension officer)  |
|     | 4 社会林業セミナー   | 約 1,000    | DEO: 41人(農業関係)<br>林業関係者, 非林業者で社会林業に関心, 貢献のある者,<br>その数は現時点で把握し難い。<br>(仮に各Location単位に少なくとも1人(全国874人)<br>NGO組織数40として各1名40人……)  | DuFEO(Divisional Forest<br>Extension officer)<br>NGO(Non-Governmental<br>Organization)               |
| キツイ | 5 社会林業実務訓練   | 約 650      | DsFEO 4人, DuFEO: 18人, 農業TOs: 18人(推定)<br>同 asst. 18人(推定), LEO: 88人, 同 asst. 381人<br>(推定), NGO組織(大・小)で約100 group<br>各1人代表100人 | DEO(District Extension<br>Officer)<br>TOs(Technical officer)<br>LEO(Locational<br>Extension officer) |
|     | 6 社会林業技能訓練   | 約 4,500    | Sub-location 381所×2人=762人<br>婦人 group(大・小)<br>88グループ×40人/各グループ=3,520  |  |

2. 参 考

① 全国について

| Province (州) | District (県) | Division (郡) | Location (市町) | Sub-Location (村落) |
|--------------|--------------|--------------|---------------|-------------------|
| 8            | 41           | 215          | 874           | 3,496 (推定)        |
|              |              |              |               | (874×4)           |

注2

② Eastern Province について (SALのみ)

| Dist.      | Div.                            | Location                          | Sub-Location                                       |
|------------|---------------------------------|-----------------------------------|--|
| ○ Kitui    | 5 → 5                           | 31 → 31                           | 156 → 156  |
| ○ Meru     | $7 \times \frac{1}{3} \doteq 3$ | $38 \times \frac{1}{3} \doteq 13$ | $152 (= 38 \times 4) \times \frac{1}{3} \doteq 51$ |
| ○ Machakos | 8 → 8                           | 36 → 36                           | 144 (= 36 × 4) → 144                               |
| ○ Embu     | $3 \times \frac{1}{2} \doteq 2$ | $15 \times \frac{1}{2} \doteq 8$  | $60 (= 15 \times 4) \times \frac{1}{2} \doteq 30$  |

Total 4人 18人 88人 381人  
(D<sub>s</sub>FEO) (D<sub>u</sub>FEO)

注1. Marsabit, Isioloの両Districtは大部分が乾燥地 ( arid land ) の故, 省く。

注2. 半乾燥地 ( semi-arid land ) は, Kitui, Machakosの全体, Meruの $\frac{1}{3}$ , Embuの $\frac{1}{2}$ 地区と推定 ( 地図上より )

資料4-2 コース別教科目及び時間

1. ムクガにおける訓練(教科目及び日程)

1) 社会林業再訓練Ⅰ(5日間 35.0時間)

— 森林の利用と社会林業の現状把握(10.0) —

- 森林の役割と利用についての世界の動向とケニアの現状(2.5)
- 諸外国における社会林業の現状と方向(3.0)
- ケニアにおける社会林業の概念とその実施状況(2.5)
- “社会林業を实践して(仮)”(体験者による講演)(2.0)

— 社会林業の推進のために(13.0) —

- 社会林業実施上の諸問題とその対応(10.5)
- “社会林業への期待(仮)”(民間有識者による講演)(2.5)

— 社会林業の事例(7.5) —

- 視察(パイロットフォレマト及びICRAF <sup>実験場</sup> マチャコス)

— 導入(2.0) —

- 開講式(1.0)
- オリエンテーション(1.0)

— まとめ(2.5) —

- 閉講式(1.0)
- 訓練評価(1.5)

2) 社会林業再訓練Ⅱ(7日間 52.5時間)

— 社会林業の概念と現状把握(13.0) —

- ケニアにおける社会林業の概念とその実施状況(2.5)
- 社会林業実施上の諸問題とその解決策(10.5)

— 社会林業推進の基礎(18.5) —

○ 適正技術の応用(11.5) —

- ・ 適正樹種の選択(果樹含む)(2.5)(立地と樹種の特徴)
- ・ 種子の入手及び取扱い(2.0)      ・ 養苗法(2.5)
- ・ 苗木の植栽から保育終了までの留意点(4.5)

○ 技術・技能の普及拡大について(2.5)

○ 社会林業における作業暦の作成(2.5)

(作業手順, 他作業との調整, 支出と収益の予定等)

○ アグロフォレストリーの考え方とその適用について(2.0)

— 実習 (9.0) —

- ① 気象データの収集と利用, ② 土壌調査の方法と結果の利用, ③ 種子の採取と取扱い
- ④ 養苗法, ⑤ 植栽及び保育の方法, ⑥ 土壌保全の方法

— 社会林業の事例 (7.5) —

- 見学 (パイロットフォレスト及び ICRAF 実験場)

— 導入 (2.0) —

- 開講式 (1.0)
- オリエンテーション (1.0)

— まとめ (2.5) —

- 閉講式 (1.0)
- 訓練評価 (1.5)

3) 林業普及員ワークショップ (14日間 102.0hrs)

— 普及事業の重要性 (7.5) —

- 社会林業の必要性と普及事業 (2.5)
- 普及事業の現在の課題 (4課題) (3.0)
- 普及事業のあり方 (2.0)

— 普及事業の推進 (16.5) —

- 普及のための各種技法の紹介 (2.5)
- 最近の有用な技術・技能の紹介 (2.0)
- 問題の発見と整理の手法 (実習含) (4.5)
- 普及活動の評価 (パネルディスカッション) (7.5)

— 普及に関する課題の解明 (66.0) —

- 普及事業の現在の課題 (2～4課題)  
以上森林局 (普及部門) より提出
- 同上 (2～4課題)  
以上訓練生の提出する地域別課題

— 民間の普及活動及び半乾燥地の実態 (7.5) —

- 見学 (民間団体の普及担当部門  
半乾燥地のプロジェクト活動)

— 導入 (2.0) —

- 開講式
- オリエンテーション

— まとめ (2.5) —

- 訓練評価
- 閉講式

4) 社会林業セミナー ( 1 日間 9.0hrs )

行事 ( 6.0 )

- 記念講演 ( 1.5 )  
“ 国土緑化の必要性と社会林業の実施 ” ( 仮 )
- 社会林業実践者の発表 ( 2 件 ) ( 2.0 )  
“ 社会林業の推進を实践して ” ( 仮 )
- 社会林業への貢献者表彰 ( 1.5 )  
( 社会林業推進の優良グループ及び個人 )
- KEFRI の社会林業に関連する試験研究成果の展示紹介 ( 1.0 )

◎ 開会及び閉会の辞 ( 1.5 )

◎ 昼食会 ( 1.5 )

( 緑化運動, 社会林業推進の意欲を高めるアトラクションを加える )

2. キツイにおける訓練 ( 教科目及び日程 )

1) 社会林業実務訓練 ( 10 日間 75.0hrs )

社会林業の現状と普及事業 ( 7.5 )

- ケニアにおける社会林業の必要性とその実施状況 ( 2.5 )
- 普及事業の現今の課題 ( 3 課題 ) ( 3.0 )
- 普及事業のあり方 ( 2.0 )

社会林業推進の基礎 ( 34.5 )

- 適正技術の応用 ( 16.0 )
  - 適正樹種を選択 ( 果樹を含む ) ( 立地と樹種の特徴 ) ( 2.0 )
  - 種子の入手及び取扱い ( 2.5 )      ○ 苗畑の造成と養苗法 ( 4.5 )
  - 苗木の植栽から保育終了までの技術上の留意点 ( 4.5 )
  - 木質燃料の効率的利用法 ( 製炭法と改良炉の利用 ( 2.5 ) )
- 社会林業における作業暦の作成 ( 2.5 )  
( 作業手順, 他作業との調整, 支出と収益の予定等 )
- 普及の各種技法紹介 ( 3.0 )      ○ 最新の有用な技術・技能紹介 ( 3.0 )
- 問題の発見と整理の手法 ( 2.5 )      ○ 課題討議, まとめ ( 7.5 )

実 習 (21.0) 注

注、◎は必須事項、○は選択事項

- ①気象データの収集と活用, ②土壌調査の方法と結果の活用
- ◎③種子の採取と取扱い, ◎④苗畑の造成と養苗 (特に水分, 日照の管理)
- ◎⑤植栽と保育の方法, ◎⑥果樹栽培と収穫, ◎⑦土壌保全の方法, ◎⑧製炭法と炉の使用法
- ◎⑨施肥の設計と実施, ◎⑩接木・挿木苗の養成法, ◎⑪問題の発見と整理の手法
- ◎⑫作業暦の作成

注 「実習」の各項目の時間割は、暫定案の「日程表」(省略)による。

社会林業の事例 (7.5)

- 見学 (KEFRI の試験研究の成果及び半乾燥地での優良事例)

導入 (2.0)

- 開議式 (1.0)
- オリエンテーション (1.0)

まとめ (2.5)

- 閉講式 (1.0)
- 訓練評価 (1.5)

2) 社会林業技能訓練 (14日間 102.0hrs)

社会林業実施への準備 (7.0)

- 社会林業の必要性とすすめ方 (2.5)
- 社会林業の作業暦の作り方と仕事のすすめ方 (4.5)

技術・技能の基礎 (48.0)

- 適正樹種の選び方 (3.0)
- 種子の採取 (入手の手法), 貯蔵の仕方, 取扱い方 (9.0)
- 簡易苗畑の造り方 (4.5)      ○苗木用土のつくり方 (4.5)
- 苗木の育て方 (9.0)      ○土壌保全の方法 (4.5)
- 苗木の取扱い方と植え方, 保育の仕方 (9.0)      ○炉の使い方 (4.5)

実 習 (33.0)

- ①種子・採取, 貯蔵, 取扱い方, ②簡易苗畑の造成, ③苗木の植え方・保育方法,
- ④養苗方法, ⑤苗木用土の作り方, ⑥接木・挿木の仕方, ⑦土壌保全の方法
- ⑧炉の使い方 (木材の燃焼法)      ⑨作業暦の作り方

社会林業の事例 (7.5)

- 見学 (半乾燥における優良事例)

—質 疑 (2.0)—

- 訓練全体の質疑

—導 入 (2.0)—

- 開講式 (1.0)
- オリエンテーション (1.0)

—ま と め (2.5)—

- 閉講式 (1.0)
- 訓練評価 (1.5)

## 機材及び講師リスト (案)

| コース                    | 教科目                           | 教材   | 講師   |  |
|------------------------|-------------------------------|--|--|--|
| 社会林業<br>再訓練 I<br>(ムグガ) | (1) 森林の役割と利用について世界の動向とケニアの現状  | 1 Conservation and development of tropical forest resources<br>2 A forestry policy for Kenya | J.C. Phillips (Representative, FAO Kenya office)<br>D. Lavre (Director for special assignments, UNEP)<br>S.C. Mbinda (CCF, FD) |  |
|                        | (2) 諸外国における社会林業の現状と方向         | 3 Fuelwood supplies in the developing countries<br>4 Tropical forestry action plan           | B.O. Lundgren (Director, ICRAF)  |  |
|                        | (3) ケニアにおける社会林業の概念とその実施状況     | 5 A review of rural afforestation extension services in Kenya and options for the future     | B.G. Wamugunda (Division chief, FD)<br>J.A. Odera Dr. (Director, KEFRI)  |  |
|                        | (4) 社会林業の実施上の諸問題とそ<br>の対応     | 6 Forestry for local community development<br>7 A guide to farm forestry in Kenya            | R. Zimmermann (Rural forestry adviser, FD)<br>B.G. Wamugunda (Division chief, FD)  |  |
|                        | (5) 行政組織と管理                   | 8 The document of the World Bank (forestry subsector review)                                 | F. Owino (Dean of faculty, Nioi Uni.)  |  |
|                        | (1) ケニアにおける社会林業の概念<br>とその実施状況 | 9 A review of rural afforestation extension services in Kenya and options for the future     | Z.I. Amahwa (Dupty CCF, FD)<br>J.A. Odera Dr. (Director, KEFRI)  |  |
|                        | 社会林業<br>再訓練 II<br>(ムグガ)       |  |  |  |
|                        |                               |  |  |  |



| コース                   | 教科科目   | 教材  | 講師  |
|-----------------------|--|---|---|
| 社会林業<br>再訓練Ⅱ<br>(ムグガ) | (1) ケニアにおける社会林業の概念とその実施状況<br><br>(2) 社会林業実施上の諸問題とその解決策<br><br>(3) 適正樹種の選択<br><br>(4) アグロフォレストリーの考え方とその適用<br><br>(5) 種子の入手及び取扱い | 10 A directory of organizations working on the tree planting and woodfuel conservation in Kenya<br><br>11 Forestry for local community development<br><br>12 A guide to farm forestry in Kenya<br><br>13 Pocket directory of trees and seeds in Kenya<br><br>14 Tree planting practice in tropical Africa (Part II)<br><br>15 Trees for village forestry<br><br>16 Agroforestry in Kenya<br><br>17 ICRAF field station, Machacos, Kenya<br><br>18 Chaina forestry support for agriculture<br><br>19 Improvement of seed supply of forest and multipurpose tree species in Kenya<br><br>20 Preliminary results of pretreatment and germination tests<br><br>21 Weight of 1000 seeds and number of seeds per KG | Z. Zimmermaun (Rural forestry adviser, FD)<br><br>B.G. Wamugunda (Division chief, FD)<br><br>C.K. Kiriinya (Silviculturist, KEFRI)<br>P.B. Milimo ( " )<br><br>P.J. Wood (Coordinator of advisory service, ICRAF)<br><br>P.K. Nair (Programme coordinator, ICRAF)<br><br>G. Rode (Project manager of GTZ, Forestry Seed Center, Muguga, FD)<br><br>S.Y.S. Kaumi (Silviculturist, KEFRI) |

| コース                       | 教科目  | 教材  | 講師   |
|---------------------------|--|---|--|
| 社会林業<br>再訓練Ⅱ<br>(ムダガ)     | (6) 養苗法<br><br>(7) 苗木の植栽から保育終了までの留意点<br><br>(8) 技術・技能の普及拡大について | 22 Forest nursery manual for Kenya<br>23 Tree planting practices in tropical Africa (Part I)<br>24 A handbook of nursery practice for Pirino earibaea var. Hondurausis and other conifers in West Malaysia<br>25 Tree planting practices in tropical Africa (Part I)<br>26 Tree planting practices in tropical Asia<br>27 Appropriate technology in forestry<br>28 Forestry extension: a review of the key issues | H. Evans (Project manager of EMI forestry project (U.K.), FD)<br>P.B. Millmo (Silviculturist, KEFRI)<br><br>C.K. Kirinya (Silviculturist, KEFRI)<br><br>B. Macklin (Extension/training coordinator, KREDP) |
| 林業普及員<br>ワークショップ<br>(ムダガ) | (1) 社会林業の必要性と普及事業<br><br>(2) 問題の発見と整理の手法<br><br>(3) 普及のための各種技法 | 29 A review of rural afforestation extension services in Kenya and options for the future<br>30 Forestry extension: a review of the key issues<br>31 Monitoring and evaluation of participatory forestry project<br>32 Communication guide for extension workers  | B.G. Wamugunda (Division chief, FD)<br><br>R.B. Vonk (Project manager, CARE-Kenya)<br><br>J. Wangombe Dr. (Prof. of Nairobi Univ.)   |

| コース                       | 教科目  | 教材  | 講師  |
|---------------------------|--|---|---|
| 林業普及員<br>ワークショップ<br>(ムクガ) | (4) 最近の有用な技術・技能  | 33 A guide to farm forestry in Kenya<br>34 [Kitui] Agroforestry/Energy Center<br>35 ICRAF field station, Machacos, Kenya  | P.N. Kuria (Farm manager, (ICRAF)<br>P.B. Milinco (Silviculturist, KEFRI)       |
| (5) 普及事業のあり方              | 36 Appropriate technology in forestry<br>37 Tree growing by rural people | E. Obel (Manager/editor - information programme, KENGO)   | B.G. Wamugunda (Division chief, FD)   |
| 社会林業<br>実務訓練<br>(キツイ)     | (1) ケニアにおける社会林業の必要性とその実施状況<br><br>(2) 適性樹種の選択                            | 38 A review of rural afforestation extension services in Kenya and options for the future<br>39 A directory of organization working on the tree planting and wood-fuel conservation in Kenya<br>40 Pocket directory of trees and seeds in Kenya<br>41 Tree planting practice in tropical Africa (Part II)<br>42 Trees for village forestry<br>43 ICRAF field station, Machacos, Kenya | P.B. Milimo (Silviculturist, KEFRI)<br>D. Depommier (Forester from CTFF, ICRAF) |

| コース                   | 教科目  | 教材   | 講師   |
|-----------------------|--|--|--|
| 社会林業<br>実務訓練<br>(キツイ) | (3) 種子の入手及び取扱い   | 44 Improvement of seed supply of forest and multipurpose tree species in Kenya<br>44 ~ 50 Report 1 ~ 6, concerned tree seed<br>51 Tree planting practices for arid zones | S.Y.S. Kaumi (Silviculturist, KEFRI)<br>P.G. von Carlowitz (Forester from GTZ, ICRAF)                  |
|                       | (4) 苗造成及び養苗法   | 52 Forest nursery manual for Kenya<br>53 Tree planting practices in tropical Africa (Part I)   | M. Stewert (Silviculturist of EMI forestry project (U.K.), FD)<br>C.K. Kirinya (Silviculturist, KEFRI) |
|                       | (5) 苗木の植栽から保育終了までの留意点  | 54 Tree planting practices in tropical Asia  |  |
|                       | (6) 木質燃料の効率的利用法  | 55 [Kitui] Agroforestry/Energy Center<br>56 Inventory of biomass in Kenya  | R.J. Engelhard (Programme development, manager, KWDP)  |
|                       | (7) 問題の発見と整理の手法  | 57 Monitoring and evaluation of participatory forest project   | M. Stewert (Silviculturist of EMI forestry project (UK), FD)   |
|                       | (8) 普及のための各種技法   | 58 Communication guide for extension workers   | J. Wagónbe Dr. (Professor, Nairobi Univ.)  |
| (9) 普及事業のあり方          | 59 Appropriate technology in forestry<br>60 Tree growing by rural people | E. Obel (Manager/editor - information programme KENGO)   |  |

| コース                   | 教科目  | 教材  | 講師  |
|-----------------------|--|---|---|
| 社会林業<br>実務訓練<br>(キツイ) | 00 最近の有能な技術・技能   | 61 A guide to farm forestry in Kenya<br>62 ICRAF field station, Machacos, Kenya           | P.K. Noir (Programme coordinator)<br>P.N. Kurira (Farm manager, ICRAF)        |
|                       | (1) 社会林業の必要性とすすめ方  | 63 A guide to farm forestry in Kenya  | B.G. Wamugunda (Division chief, FD)   |
|                       |  | 64 A review of rural afforestation extension services in Kenya and options for the future |   |
|                       | (2)~(1)  | 65 ICRAF field station, Machacos, Kenya   | C.K. Kirinya (Silviculturist KEFRI)<br>S.Y.S. Kaumi ( )                       |
|                       |  | 66 [Kitui] Agroforestry/Energy Center   | C.K. Serrem (Soil scientist)<br>T. Onyango (soil conservation officer, KENGO) |
|                       | 適性樹種の選び方<br>種子の入手、貯蔵、取扱い<br>苗畑の造成<br>作業暦の作成<br>苗木用土の調成<br>苗木養成<br>苗木の取扱いと植栽<br>苗木の保育・保護<br>土壌の保全の方法<br>原の使い方 | 67 Trees for village forestry   | K. Kiamki (Technical officer, KENGO)  |
|                       |  | 68 Tree planting practices for arid zone  |   |
|                       | 苗木の取扱いと植栽<br>苗木の保育・保護<br>土壌の保全の方法<br>原の使い方   | 69 A pocket directory of trees and seeds in Kenya   | 新野 忠 ( J I C A 専門家 )<br>荒井 実 ( " )<br>坂澤 修 ( " )                              |
|                       |  | 70 Tree planting practices in tropical Africa (Part I)                                    |   |
|                       |  | 71 A forest nursery manual for Kenya  |   |

注 別紙2「コース別教科目及び時間」と不一致の部分があるのは、本資料が62.11.2現在のもの、で第1回訓練小委員会(62.11.9)後の修正を行っていないことによる。

見学（視察）用補助機材等

| コース                    | 教科科目                            | 教材  | 講師   |
|------------------------|---------------------------------|---|--|
| 社会林業<br>再訓練<br>I及びII   | 見学（視察）<br>（ICRAFのfield station） | 72 ICRAF Field Station Machacos                                 | P.K. Nair (Programme coordinator,<br>ICRAF)              |
|                        |                                 | 73 An account of the activities of<br>the ICRAF                 | P.N. Kuria (Farm manager, ICRAF)                         |
| 普及員<br>ワークショップ         | 見学<br>（KENGO, NCWKの普及部門）        | 74 ICRAF Field Station<br>（status report, 1987）                 | E. Obel (Manager/editor - informa-<br>tion programme)    |
|                        |                                 | 75 Kengo  | W. Mathai Dr. (Programme coordinator)                    |
| 社会林業<br>実務訓練及び<br>技能訓練 | 見学<br>（半乾燥地の優良植林の事例）            | 76 Kengo news   | C. Ndegwa (Project manager,<br>Barings FAO project)      |
|                        |                                 | 77 Fuelwood afforestation/extension<br>in Baringo (FAO project) | H. Evans (Project manager, EMI<br>forestry project (UK)) |
|                        |                                 | 78 EMI, ASAL development programme<br>phase 2 (UK project)      |  |

1. 訓練活動計画 ( S. 63 ~ S. 67 )

|             | コ          | 一          | ス        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11       | 12       | 1        | 2        | 3        |
|-------------|------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ム<br>グ<br>ガ | 1          | 社会林業再訓練 I  | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|             | 2          | 社会林業再訓練 II | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|             | 3          | 普及員ワークショップ | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|             | 4          | 社会林業セミナー   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
| キ<br>ツ<br>イ | <1>        | 社会林業実務訓練   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|             | 1          | 社会林業実務訓練   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|             | 2          | 社会林業技能訓練   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|             | <1>        | 社会林業再訓練 I  | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
| <2>         | 社会林業再訓練 II | XX<br>XX   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |          |

注 1. ……は ( 運営期間 ) の準備・整理期を示す。

2.  印は、雨季 ( 4 ~ 5 月, 10 ~ 12 月 )

3.  印は、クリスマス休暇 ( 12 月下旬 ), イースター休暇 ( 3 月下旬 ~ 4 月上旬 )

4. 植栽時期 ( ムクガ ( 4 ~ 5 月の雨季 ), キツイ ( 10 ~ 12 月雨季 ) ), 農民活動時期 ( 10 ~ 1 月 )

5. キツイの「社会林業再訓練 I」と「同 II」は見学である。

2. 訓練活動計画 ( S63年度 )

|   |              | S63      |          |          |          | S64      |          |          |          |          |          |          |          |
|---|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| コ |              | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11       | 12       | 1        | 2        | 3        |
| △ | 1 社会林業再訓練Ⅰ   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|   | 2 社会林業再訓練Ⅱ   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|   | 3 普及員ワークショップ | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|   | 4 社会林業セミナー   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
| □ | <1> 社会林業実務訓練 | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|   | 1 社会林業実務訓練   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|   | 2 社会林業技能訓練   | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
|   | <1> 社会林業再訓練Ⅰ | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |
| △ | <2> 社会林業再訓練Ⅱ | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX | XX<br>XX |



資料 4-5 進行管理計画(暫定案)

社会林業セミナー(關所行事と併合、ムクガ)

| 区 | 分                 | 内  | 容  | 備考                                 |
|---|-------------------|--|--|------------------------------------|
| 1 | 全体を派れ             |  | <p>(1)研修ニーズ把握(済) → (2)研修計画立案(済) → (3)研修プログラムの作成(3月下旬) → (4)実施(↑)(5月下旬) → (5)評価(5月下旬)</p> <p>全国植樹祭の前後<br/>(例年4月下旬～5月上旬)</p> | (注)<br>→プロセスの進行<br>→フィードバック<br>の経路 |
| 2 | 個別事項              |  |  |                                    |
|   | (1) 研修生選考         | <p>1(2) ↓</p> <p>①研修対象者、人員の明示(対ケニア国政府) → (2)選考(ケニア国政府) → (3)名簿の提出(3月中旬)</p> <p>→ ④検討(内閣) → ⑤出席者確認通知(対ケニア国政府) → 1(4)</p> <p>(3月下旬)</p>                            |  |                                    |
|   | (2) 研修プログラム作成     | <p>1(2) → ①研修プログラム案作成 → ②確定 → 1(4)</p> <p>(2月中旬)</p> <p>2(2)② ↓</p> <p>①講師カード作成 → ②依頼(交渉) → ③依頼文書 → ④レジメ等教材原稿提出(3月中旬)</p> <p>→ ⑤印刷製本 → ⑥配布(当日)</p> <p>(4月中旬)</p> |  |                                    |
|   | (3) 講師選定          | <p>2(2)② ↓</p> <p>①施設・資機材等の内容検討 → ②計画・調達 → ③設置等 → (4)</p> <p>(3月上旬)</p> <p>2(2)① ↓</p> <p>①施設・資機材等の内容検討 → ②計画・調達 → ③設置等 → (4)</p> <p>(3月下旬)</p>                  |  |                                    |
|   | (4) 施設、資機材等の整備    | <p>①施設・資機材等の内容検討 → ②確定 → ③口座開設・支出計画 → 1(4)</p> <p>(2) → (3月中旬) (3月下旬)</p> <p>2(5)② ↓</p> <p>①旅費、謝金支払基準(案)作成 → ②確定 → 1(4)</p> <p>(3月中旬)</p>                       |  |                                    |
|   | (5) 予算等           | <p>①評価内容の(案)作成 → ②確定 → 1(5)</p> <p>(4月下旬)</p>  |  |                                    |
|   | (6) 旅費、謝金の決定(講師等) |  |  |                                    |
|   | (7) 評価            |  |  |                                    |

車両設置コーナー  
→ ショーンも含む

社会林業再訓練工（ムクガ）

| 區分 | (内)               | 容   | 備考   |
|----|-------------------|---|--|
| 1  | 全体的な流れ            | <p>(1) 研修ニーズ把握 (済)</p> <p>(2) 研修計画立案 (済)</p> <p>(3) 研修プログラムの作成 (3月中旬)</p> <p>(4) 実施 (6月上旬)</p> <p>(5) 評価 (6月下旬)</p>                   | <p>(注)</p> <p>→ プロセスの進行</p> <p>→ ファイナードパス</p> <p>の絡路</p> |
| 2  | 個別事項              | <p>(1) 研修生選考</p> <p>1(2) → ①研修対象者、人員の明示(対クニア国政府) → ②選考(クニア国政府) → ③名簿の提出 (3月中旬)</p> <p>→ ④検討(内部) → ⑤出席者確定通知(対クニア国政府) → 1(4) (5月上旬)</p> |  |
|    | (2) 研修プログラム作成     | <p>1(2) → ①研修プログラム案作成 → ②確定 → 1(4) (3月中旬)</p> <p>2(2)② 2(6)② 2(1)⑤ ↓</p>  |  |
|    | (3) 講師選定          | <p>①講師カード作成 → ②依頼(交渉) → ③依頼文書 → ④レジメ等教材原稿提出 (3月中旬) (3月下旬) (5月上旬) (5月中旬)</p> <p>→ ⑤印刷製本 → ⑥配布 → 1(4) (5月中旬) (6月上旬)</p>                 |  |
|    | (4) 施設・資機材等の整備    | <p>①施設・資機材等の内容検討 → ②計画・調整 → ③設置等 → 1(4) (3月中旬) (4月上旬) (5月中旬)</p> <p>2(1)① ↓ 2(2)① ↓</p>   | <p>車両設置、ロー</p> <p>テーションも含</p> <p>む</p>                   |
|    | (5) 予算等           | <p>①予算案作成 → ②確定 → ③(口盛開設)・支出計画 → 1(4) (2月中旬) (3月上旬) (3月中旬)</p> <p>2(5)② ↓</p>   |  |
|    | (6) 旅費、謝金の決定(講師等) | <p>①旅費、謝金支払基準(案)作成 → ②確定 → 1(4) (3月上旬)</p>  |  |
|    | (7) 評価            | <p>①評価内容の(案)作成 → ②確定 → 1(5) (5月下旬) (6月上旬)</p>   |  |

社会林業実務訓練（キャンプ）

| No | (区分)              | (内容)  | (備考)                               |
|----|-------------------|---|------------------------------------|
| 1  | 全体的な流れ            | <p>(1)研修ニース把握 (研) → (2)研修計画立案 (済) → (3)研修プログラムの作成 (5月下旬) → (4)実施 (8月中旬) → (5)評価 (9月上旬)</p>  | (注)<br>→プロセスの進行<br>→フィードバック<br>の絡路 |
| 2  | 個別事項              | <p>1(2) ↓<br/>○ ①研修対象者、人員の明示(対ケニア国政府) → ②選考(ケニア国政府) → ③名簿の提出 (5月中旬) (6月中旬) (7月上旬)</p> <p>→ ④検討(内部) → ⑤出席者確定通知(対ケニア国政府) → 1(4) (7月中旬)</p>  |                                    |
|    | (1) 研修生選考         | <p>○ 1(2) → ①研修プログラム案作成 → ②確定 → 1(4) (5月中旬) (5月下旬)</p> <p>2(2)② ↓ 2(1)⑤ ↓<br/>○ ①講師カード作成 → ②依頼(交渉) → ③依頼文書 → ④レジメ等教材原稿提出 (5月下旬) (6月上旬) (7月中旬) (8月上旬)</p> <p>→ ⑤印刷製本 → ⑥配布 → 1(4) (8月中旬)</p> |                                    |
|    | (2) 研修プログラム作成     | <p>○ 1(2) → ①研修プログラム案作成 → ②確定 → 1(4) (5月中旬) (5月下旬)</p>  |                                    |
|    | (3) 講師選定          | <p>○ ①講師カード作成 → ②依頼(交渉) → ③依頼文書 → ④レジメ等教材原稿提出 (5月下旬) (6月上旬) (7月中旬) (8月上旬)</p> <p>→ ⑤印刷製本 → ⑥配布 → 1(4) (8月中旬)</p>  |                                    |
|    | (4) 施設・資機材等の整備    | <p>○ ①施設・資機材等の内容検討 → ②計画・調達 → ③設置等 → 1(4) (5月下旬) (6月中旬) (8月上旬)</p> <p>2(1)① ↑ 2(2)① ↓</p>   |                                    |
|    | (5) 予算等           | <p>○ ①予算案作成 → ②確定 → ③(口歴開設)・支出計画 → 1(4) (4月下旬) (5月中旬) (5月下旬)</p> <p>2(5)② ↓</p>   |                                    |
|    | (6) 旅費、謝金の決定(講師等) | <p>○ ①旅費、謝金支払基準(案)作成 → ②確定 → 1(4) (5月中旬) (5月下旬)</p>   |                                    |
|    | (7) 評価            | <p>○ ①評価内容の(案)作成 → ②確定 → 1(5) (7月中旬)</p>  |                                    |



## MINISTRY OF ENVIRONMENT AND NATURAL RESOURCES DEVELOPMENT PROJECTS AS OF 30.6.1987 (FOREST DEPARTMENT)

| PROJECT NAME   | OBJECTIVES  | LOCATION                        | STARTING DATE          | COMPLETION DATE | ORIGINAL COST (K£) | EXTERNAL DONOR (K£)  | GOK CONTRI-BUTION (K£)            | FUNDS EX-PENDED AS AT 30.6.87 (K£)        | BALANCE AS AT 30.6.87 (K£) | CURRENT PROJECT STATUS  | REMARKS  |
|--|---|---------------------------------|------------------------|-----------------|--------------------|--|-----------------------------------|---|----------------------------|---|--|
| 1 Embu-Meru-Isiolo Project (Forestry Comp.) Phase II                 | To promote growing of trees by farmers leading to local self-sufficiency in wood-fuel.  | Embu, Meru and Isiolo Districts | July '86               | June '89        | 817,979            | GRANT 423,200 (O.P.A)  | 394,779                           | 104,399.36<br>GoK                         | 290,379.64<br>GoK          | Mid-Term Evaluation will be carried out in Feb-March 1988   | It is direct funded project and therefore donor expenditure was not readily available at the MENR HQs. |
| 2 FAO/Australia/GoK Fuelwood Project, Marigat.                       | Assist in establishing tree nurseries and general extension activities.   | Baringo District                | July '84               | June '88        | 638,821            | Grant 338,821 (Australia)  | 300,000                           | 306,181.92                                | 332,639.08                 | Established 17 nurseries with a capacity of 800,000 seedlings and 40 tree demonstration plots covering 341 Ha.                        | Work going on in good progress.  |
| 3 Assistance to Forest Nurseries.                                    | Establishing nurseries, seedling distribution system and general extension work.  | Nyandarua and Nakuru Districts  | July '87               | June '89        | 160,00             | Grant 160,000 (FAO)  | Personnel attached to the Project | Expenditure will be available by 31.12.87 | -                          | Nursery work in progress  | On going without problems  |
| 4 Forest Industrial Training Centre Phase II.                        | Planning and building a training centre as well as constructing a production sawmill.   | Nakuru District                 | July '86               | June '88        |                    | Grant 3,285,000 (FINIDA)   |                                   | Expenditure will be available by 31.12.87 | -                          | Construction of Wood Industrial Training Institute (KWITI) stopped awaiting proper negotiations with the donor (FINIDA).              | Construction materials for KWITI had been bought and are now lying on the site.                        |
| 5 South Nyanza Afforestation Project                                 | To conserve soil, water and forest resources.   | South Nyanza District           | July '86               | June '89        | 830,000            | Grant 830,000 (DANIDA)   | Personnel attached to the Project | 352,550                                   | 477,450                    | Planted 134 ha of hill tops, rehabilitated eleven RAES Nurseries.   | Gazettement of forest land should be completed soon.   |
| 6 Taita Taveta District Dev. Project (Forestry Comp.)                | Improve production and living standards through conservation of soil, water & forest resources                                      | Taita Taveta District           | Actual Start Oct. 1986 | June '88        | 283,448            | Grant 205,000 (DANIDA)   | 77,948                            | 21,600 (GoK)                              | 56,348 (GoK)               | Planted 200 Ha. collected 500 Kg. of <i>Crevillia robusta</i> , established 6 minor nurseries, rehabilitated 2 nurseries departmental | Review mission to be carried in Jan. 1988  |
| 7 Machakos Integrated Development Project (Forestry Comp.) Phase II. | Soil conservation, protection of catchment areas and to replenish sources of fuelwood and timber.                                   | Machakos District               | July '84               |                 | 362,000            | Grant 340,300 (EEC)  | 21,700                            | 240,536.90                                | 121,464                    | Established 6 major nurseries, afforested several hill tops.  | Phase II supposed to end in June 1987 Agreement renewal document has been requested from the Treasury. |
| 8 Third Forestry Project.  | Establishing tree plantations, carrying out rural afforestation, offering advice to saw-milling industry and supporting roads unit. | Nation-wide                     | May '83                | Dec. '87        | 46,254,000         | Swiss Grant 3,375,000<br>IDA Credit 14,144,000<br>IBRD Loan 17,200,000<br>Italy Loan 4,500,000 | 7,035,000                         | 17,961,553                                | 28,292,447                 | IDA Credit and Swiss Grant has been fully utilised.   | Project extended to 31.12.87 Efforts should be made to utilise the Italian Loan                        |
| 9 Rural Tree Development Project                                     | Reinforcing the rural afforestation extension service in its Headquarters and field activities.                                     | Nation-wide                     | July '86               | Jan. '89        | 2,524,127          | Grant 2,524,127 (SWISS)  |                                   | 81,767.56                                 |                            | On-going  | Efforts being made to get its current status of implementation.  |
| 10 Magarini Settlement Scheme (Forestry Comp.) Phase II.             | Afforesting the scheme area and establishing tree nurseries for use by settled families.  | Kilifi District                 | July '85               | June '88        | 2,327,700          | Grant 905,000 (Australia)  | 1,922,700                         | 134,626                                   | 2,693,074                  | Established a wood lot in each of the four schemes covering a total of 120 ha. of land.   | Production of seedling currently is too low, measures should be taken to improve on it.                |




資料 5. R / D 本文


THE RECORD OF DISCUSSIONS  
BETWEEN THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF JAPAN  
AND THE GOVERNMENT OF THE REPUBLIC OF KENYA  
ON THE JAPANESE TECHNICAL COOPERATION FOR  
THE SOCIAL FORESTRY TRAINING PROJECT

The Japan International Cooperation Agency (hereinafter referred to as "JICA") had a series of discussions through the Resident Representative of JICA in Kenya with the authorities concerned of the Government of the Republic of Kenya on the desirable measures to be taken by both Governments for the Japanese Technical Cooperation Programme concerning the Social Forestry Training Project which is the main Phase of Nursery Training and Technical Development Project for Social Forestry in Kenya. (Preparatory Phase).

As a result of the discussions, JICA and the authorities concerned of the Government of the Republic of Kenya agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

Nairobi, November 25, 1987

  
Mr. Akira Takahashi  
Resident Representative  
Kenya Office  
Japan International Cooperation  
Agency, JAPAN

  
Mr. E.C. Arap Lang'at  
Permanent Secretary  
Ministry of Environment  
and Natural Resources  
The Republic of Kenya

THE ATTACHED DOCUMENT

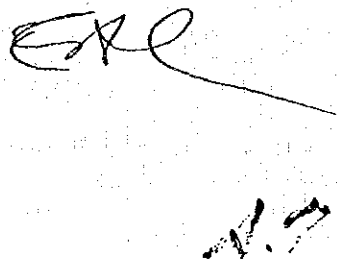
I. COOPERATION BETWEEN BOTH GOVERNMENTS

1. The Government of Japan and the Government of the Republic of Kenya will cooperate with each other in implementing the Social Forestry Training Project (hereinafter referred to as "the Project") for the purpose of conducting training in social forestry at the national and regional levels and implementing the Pilot Forest Scheme combined with training at the regional level and thus contributing to the development of capabilities for social forestry training in Kenya.
2. The Project will be implemented in accordance with the Master plan which is given in Annex I.

II. DISPATCH OF JAPANESE EXPERTS

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense services of the Japanese experts as listed in Annex II through the normal procedures under the technical cooperation scheme of the Government of Japan.

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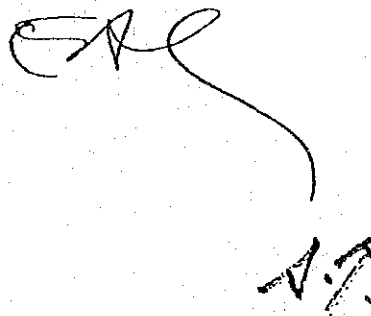


2. The Japanese experts referred to in (1) above and their families will be granted in the Republic of Kenya the privileges, exemptions and benefits no less favourable than those accorded to experts of third countries or international organizations performing similar missions in the Republic of Kenya.

### III. PROVISION OF MACHINERY AND EQUIPMENT

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense such machinery as equipment and other materials (hereinafter referred to as the "Equipment") necessary for the implementation of the projects as listed in Annex III through the normal procedures under the technical cooperation scheme of the Government of Japan.
2. The Equipment will become the property of the Government of the Republic of Kenya upon being delivered c.i.f. to the Kenyan authorities concerned at the ports and/or airports of disembarkation, and will be utilized exclusively for the implementation of the Project in consultation with the Japanese experts referred to in Annex II.

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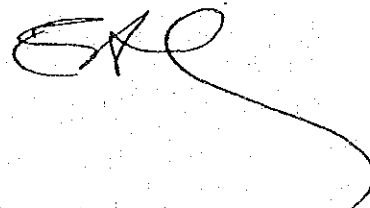
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3. All equipment, machinery and materials provided by the Government of Japan through JICA during the implementation of the Nursery Training and Technical Development Project for Social Forestry (Preparatory Phase) will be utilized for the implementation of the Project.

#### IV. SPECIAL MEASURES TO BE TAKEN BY THE GOVERNMENT OF JAPAN

In order to assure smooth implementation of the Project in accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to supplement a portion of the local cost expenditure for the execution of the afforestation promotion programme such as the cost of afforestation activities and so on when the necessity arises.

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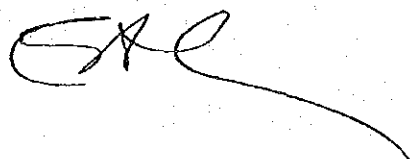
V. TRAINING OF KENYAN PERSONNEL IN JAPAN

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to receive at its own expense the Kenyan personnel connected with the Project for technical training in Japan through the normal procedures under the technical cooperation scheme of the Government of Japan.
2. The Government of the Republic of Kenya will take necessary measures to ensure that the knowledge and experience acquired by the Kenyan personnel from technical training in Japan will be utilized effectively for the implementation of the project.

VI. SERVICES OF KENYAN COUNTERPART AND ADMINISTRATIVE PERSONNEL

1. In accordance with the laws and regulations in force in the Republic of Kenya, the Government of the Republic of Kenya will take necessary measures to secure at its own expense the necessary services of Kenyan counterpart and administrative personnel as listed in Annex IV.
2. The Government of the Republic of Kenya will endeavour to allocate the necessary number of suitably qualified personnel

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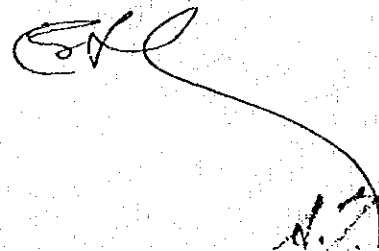
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corresponding to each Japanese expert to be dispatched by the Government of Japan as specified in Annex II for the effective and successful transfer of technology under the project.

VII. MEASURES TO BE TAKEN BY THE GOVERNMENT OF THE REPUBLIC OF KENYA

1. In accordance with the laws and regulations in force in the Republic of Kenya, the Government of the Republic of Kenya will take necessary measures to provide at its own expense:
  - (1) Land, buildings and facilities as listed in Annex V;
  - (2) Supply or replacement of machinery, equipment, instrument, vehicles, tools, spare parts and any other materials necessary for the implementation of the project other than those provided through JICA under III above;
  - (3) Transportation facilities and travel allowance for the official travel of Japanese experts within the Republic of Kenya;
  - (4) Suitably furnished accommodations for the Japanese experts, their families and the Kenyan counterpart staff.

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2. In accordance with the laws and regulations in force in the Republic of Kenya, the Government of the Republic of Kenya will take necessary measures to meet:

(1) Expenses necessary for the transportation of the Equipment within the Republic of Kenya as well as for the installation, operation and maintenance thereof;

(2) All running expenses necessary for the implementation of the Project;

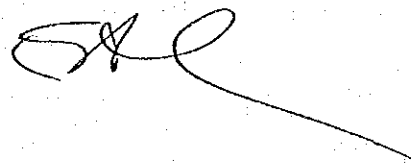
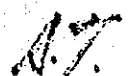
and to exempt Customs duties internal taxes and any other charges, imposed on the Equipment in the Republic of Kenya.

#### VIII. ADMINISTRATION OF THE PROJECT

1. The Permanent Secretary, the Ministry of Environment and Natural Resources will bear overall responsibility for the implementation of the Project.

2. The Director, the Kenya Forestry Research Institute, as the Head of the Project, will be responsible for the administrative and managerial matters of the project.

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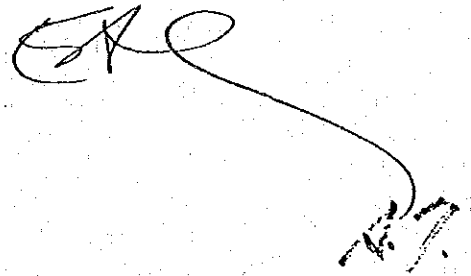
  


3. The Japanese Chief Adviser will provide necessary recommendation and advice on technical and administrative matters concerning the implementation of the Project to the Head of the Project
4. The Japanese experts will give necessary technical guidance and advice to the Kenyan counterpart personnel on matters pertaining to the implementation of the Project.
5. For the effective and successful implementation of the Project, a Joint Committee will be established with the function and composition as referred to in Annex VI.

IX. CLAIMS AGAINST JAPANESE EXPERTS

The Government of the Republic of Kenya undertakes to bear claims, if any arises, against the Japanese experts engaged in the Project resulting from, occurring in the course of or otherwise connected with the discharge of their official functions in the Republic of Kenya except for those arising from the willful misconduct or gross negligence of the Japanese experts.

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X. MUTUAL CONSULTATION

There will be mutual consultation between the two Governments on any major issues arising from, or in connection with this Attached Document.

XI. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be five (5) years from 26 November, 1987.

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*EAL*  
*A.J.*

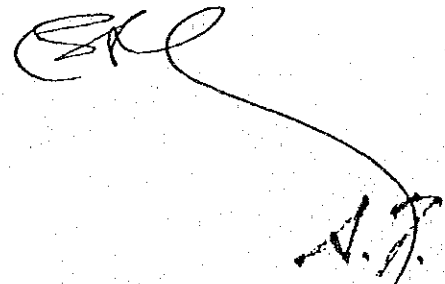
A N N E X

I. MASTER PLAN

1. Objective of the Project

To conduct training in social forestry at the national and regional levels and to implement the Pilot Forest Scheme combined with training at the regional level and thus contributing to the development of capabilities for social forestry training in Kenya.

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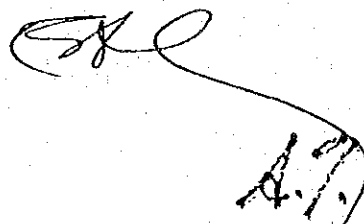


2. Activities of the Project

To attain the above-mentioned objective, the following cooperation activities will be implemented

- (1) Training in Social forestry at the national and regional levels
  - a. Preparation of curricula and training materials
  - b. Training for senior field and headquarter-based officers of the Forest Department.
  - c. Training for intermediate level field officers of the Forest Department
  - d. Training for extension officers and nursery supervisors of the Forest Department.
  - e. Training for agricultural extension staff at the location and sub-locational levels.
  - f. Training for leading or active farmers at the village level.
  - g. Conducting national seminars for the promotion of social forestry.
- (2). Implementation of the Pilot Forest Scheme combined with training at the regional level.

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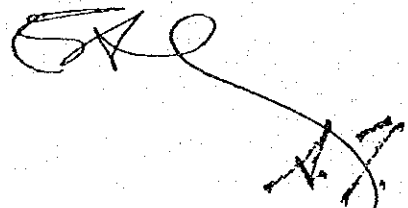
- a. Development and improvement of the techniques for social forestry in semi-arid land through the establishment and operation of a trial plantation.
- b. Technical guidance and material support for the plantation operated by local farmers groups.
- c. Study of natural succession in the protected area.
- d. Other necessary activities including commemorative tree planting.

## II. JAPANESE EXPERTS

1. Chief Advisor
2. Team Leaders
3. Experts in the fields of:
  - (1) Nursery Training
  - (2) Silviculture Training
  - (3) Forestry Extension
  - (4) Nursery
  - (5) Silviculture
4. Liaison Officer

- Note:
1. Team Leaders may serve concurrently as experts in one of the fields mentioned above.
  2. Short-term experts in other related fields will be dispatched when necessity arises.

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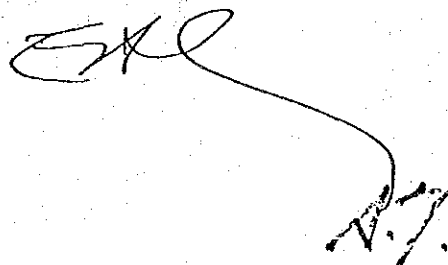
### III. LIST OF EQUIPMENT

1. Equipment, machinery, instruments, tools and spare parts for forestry training.
2. Equipment, machinery, instruments, tools and spare parts for silviculture.
3. Seeds, fertilizers, pesticides and other materials.
4. Vehicles.
5. Other materials necessary for the activities of the Project.

### IV. LIST OF KENYAN COUNTERPART AND ADMINISTRATIVE PERSONNEL

1. Head of Project
2. Advisory staff (KEFRI Research Officers)
3. Training Manager
4. Training Sub-Manager
5. Training Officers
6. Pilot Forest Manager
7. Pilot Forest Sub-Manager
8. Pilot Forest Operations Officers
9. Administrative and Clerical staff
10. Other necessary supporting staff

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V. LIST OF LAND, BUILDING AND FACILITIES

1. At the National Social Forestry Research and Training Centre.

Muguga-

- (1) Project Head Office
- (2) Training Facilities
- (3) Nursery
- (4) Other related facilities

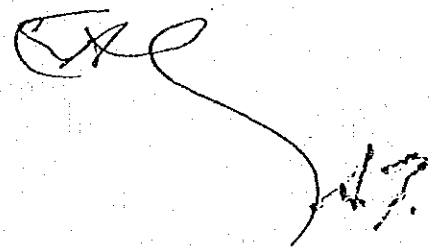
2. At the Regional Social Forestry Training Centre, Kitui

- (1) Project Kitui Office
- (2) Training facilities
- (3) Nursery
- (4) Field accommodation for Japanese experts and Kenyan counterpart.
- (5) Other related facilities

3. At the Pilot Forest area

- (1) Lands for the Pilot Forest Scheme
- (2) Nursery
- (3) Facilities for the afforestation activities
- (4) Other related facilities

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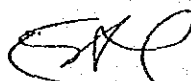
VI. THE JOINT COMMITTEE

1. Functions

The joint Committee will meet at least once a year and whenever necessity arises, and work:

- (1) To formulate the Annual Work Plan of the Project in line with the Tentative Schedule of Implementation formulated within the frame of work of this Record of Discussion;
- (2) To review the overall progress of the technical cooperation programme and monitor the project activities in the light of the above-mentioned Annual Work Plan;
- (3) To review and exchange views on major issues arising from or in connection with the technical cooperation programme.

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## 2. Composition

(1) Chairman: Permanent Secretary, the Ministry of Environment and Natural Resources.

(2) Members:

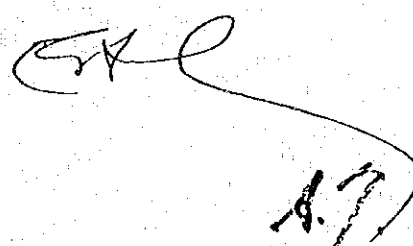
(a) Kenyan side:

- Head of the Project
- Training Manager
- Pilot Forest Manager
- Chief Conservator of Forests, Forest Department
- Representative of Ministry of Finance
- Representative of Ministry of Planning and National Development
- Representative of Ministry of Research, Science and Technology
- Representative of Ministry of Agriculture

(b) Japanese Side

- Chief Advisor
- Experts designated by Chief Adviser
- Liaison Officer
- Resident Representative, JICA Kenya Office

Note: Official(s) of the Embassy of Japan may attend the joint Committee as observer(s)

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26th November, 1987

KENYA/JAPAN: SOCIAL FORESTRY TRAINING PROJECT -  
MAIN PHASE FROM NOVEMBER, 1987

In response to the official request by the Kenyan Government, on the establishment of the Social Forestry Training Project, the Japanese Government, through the Japan International Cooperation Agency (JICA), offered Technical Cooperation and Capital Grant Aid.

Under the Capital Grant Aid, approximately Kshs. 142 Million, will be utilized for the establishment of two Forestry Centres. One is at Muguga and the other at Kitui, the former being a National Research and Training Centre and the latter a Regional Training Centre but with a national mandate particularly for the development of social forestry in the semi-arid areas.

The following facilities will be constructed for both Centres:

Training facilities, Equipment and Dormitories

Research facilities and Equipment

Nursery facilities and Equipment.

Construction works for the above will be completed by the end of March, 1988.

Under the Technical Cooperation Scheme, the Main Phase of the Project was started in November, 1987, following the cooperation for the Preparatory Phase for the said project, for the duration of two (2) years from November, 1985. The planned activities

for the Preparatory Phase has been successfully and satisfactorily implemented by Kenya and Japan.

Why the project is placing a special emphasis on the Social Forestry Development in the semi-arid areas, is due to the following reasons:

- a) Among various ecological zones the most vulnerable and calling for immediate action is the semi-arid area which is experiencing an influx of population in high potential area.
- b) The semi-arid area, in addition to the fact that it is under mounting pressure on land, is characterised by a harsh environment, low biological productivity. Coupled with the prevailing inappropriate land use practices, the situation is likely to lead to irreparable environmental damages and degradation.

After a series of discussions with both parties, a new agreement was signed on 25th November, 1987. The granting of the Master Plan in the above agreement, the Main Phase of the Project consists of two (2) Sub-Projects, Training and Pilot Forest.

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The Training Sub-Project will carry out training activities at both the Muguga and Kitui Centres. It should be noted, however, that the two (2) Centres have different characteristics. The Muguga National Centre will carry out refresher courses designed for PFO's, DFO's and other officers at a higher level. Secondly, the Centre will also hold workshops for Extension Forest Officers, their assistants or Agricultural Extension Staff for the purpose of monitoring and evaluation of Social Forestry development activities country-wide. It will also hold National Seminars, inviting non-foresters as well as foresters.

The Kitui Regional Centre, on the other hand, will concentrate on the semi-arid land areas of the Eastern Province. The training activities of this Centre will invite extension workers of both forestry and agriculture of intermediate level, plus active farmers and women group leaders at the grass-roots' level and will try to give them a systematic training in social forestry including various subjects needed to tackle the problems of the semi-arid areas.

The Pilot Forest Sub-Project has been carrying out with special measures (approx. Kshs. 2.8 Million, financial support per year under the Japanese Technical Cooperation Scheme). This Sub-Project will be responsible for three (3) groups of activities.

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The first group will be the establishment of pilot forest of about 700 hectares through the direct operation of the Project for selection of appropriate tree species and development of nursery planting and tending techniques.

The second activity would be to call in voluntary groups of people to plant trees for their own benefit and support these groups by offering technical guidance and material support. These groups will be assured of the future benefits coming out of their voluntary tree planting by a legal agreement between KEFRI and the groups. Thus, the groups will be endowed with a right to the various forest products such as fuel-wood, charcoal, honey, etc., and agricultural crops to be harvested from agroforestry practices.

The last group of activity will be social forestry extension to the nearby rural areas. The Pilot Forest Sub-Project will also provide seedlings and technical guidance to the individual farmers in the adjoining rural areas. The local people will also receive guidance and support for soil conservation and other related activities by this sub-project.

All these activities of the Pilot Forest Sub-Project will be closely combined with the training activities of the Kitui

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Regional Centre for the social forestry development in the crucial semi-arid land area.

Counterpart Training has been provided in the relevant fields under the JICA Training Programme for the development of Kenyan Staff. At present there are seven (7) Japanese Experts assigned to the Project for the creation of appropriate technology with Kenyan Counterpart Staff, for the Social Forestry Project, especially in the semi-arid zone.





JICA