付表1 タンザニア国漁業関連年表

| 年 | 国家経済関連の出来事 | 年 | 漁業関連の出来事 |
|-----------------|-------------------------------------|---------|---|
| 1884 | 本土ドイツ領 | | |
| 1890 | ザンジバル・ペンバ島オマーンのスル タン支配下から英保護領 | | |
| 1920 | 本土英任統治、信託統治 | 1955 | Mahima Agriculture Centre 設立 |
| 1961 | 本土タンガニーカとして独立 | 1950-60 | ナイルパ゚ーチのビクトリア湖導入 |
| 1962 | 本土共和制 | | |
| 1963 | ザンジバル・ペンバ島、ザンジバルと して独立 | | |
| 1964 | 1月 ザンジバル、クーデターで人民 共和国 | | |
| 1964 | 4月 ニエレレ大統領のもと連合共和 国成立 | | |
| | | 1966 | Mbegani Fisheries Development Centre 設立 |
| | | 1967 | Kunduchi Fisheries Institute 設立(設立当初の学生は13名、2年間のコース) |
| | | 1967 | Nyegezi Fisheries Research Institute、実験加工工場として設立(1978 年から実状の訓練校として開校) |
| | | 1970 | 漁業法 (Fisheries Act)施行 |
| | | 1979 | f NIX大学での Marine Science 学科の設立 |
| 1982-84 1985 | 構造調整計画 ムウィニ大統領選出 | 1980 | 水産研究所(TAFIRI)設立 |
| 1986-88 | 経済復興計画、世銀/SAL、IMF/SAF | 1987 | 最初のナイルパーチの輸出始まる(ケニア) |
| 1989-91 | 第2次経済復興計画 | 1989 | 領海及び排他的水域法施行:200 海里 EEZ 導入。 |
| 1990 | 国家投資法、投資促進センター設立 | | |
| 1991 | 協同組合法 銀行及び金融機関法:民間商業銀行の 参入自由化 | | |
| 1991 | | | |
| 1992 | 公社・公団法:300以上の公社公団の 精算・民営化の目標 | 1992 | タンザ゛ニアでナイルハ゜ーチ輸出開始 |
| 1992-94 | 5万人の公務員(全体15%)削減 | 1992 | カゲラ州水産開発プロジェクト(KDFDP)開始 |
| 1993 | 作目別公社法:農産物流通自由化 | 1993-99 | NORAD の支援による Mbegani Fisheries Development Centre の拡張 |
| 1993- | 転回計画先行予算 | | |
| 1993-95 | がアコー市場地域、無免許路上商人立退きめぐり暴動 | 1994 | Fisheries Regulation 94 施行 ピカリア湖での商業トロール漁業禁止、5"以下 の目合の刺網禁止、地引網禁止。 |
| 1995 | ムカパ大統領選出 | | |
| 1995 | 州レベル政府の縮小化 | | |
| 1996 | 州レベル政府の縮小化 | | |
| | | 1998 | フレームサーベイ (沿岸) |
| | | 2000 | フレームサーベイ (ビクトリア湖) |
| | | 2001 | 漁業法 (Fisheries Act) 見直し |

付表 2 湖の地理情報

| 湖名 | 湖面総面積 (km²) | 海岸線 (km) | 湖面 の海抜 | 気温 (C) | 年間 降水量 | 平均 深度 | 最高 深度 | 容量 | 魚の 種類 |
|---------|----------------|-------------|-----------|-----------|-----------|----------|----------|--------|----------|
| | (KIII) | (Kili) | (m) | (0) | (mm) | (m) | (m) | | 作主大只 |
| ビクトリア湖 | 68,800 | 3,500 | 1,134 | 20-25 | 1,034 | 40 | 80 | | 200 |
| | 32,945 | 約 800 | 773 | | | 570 | 1,470 | 18,880 | 200 |
| タンガニーガ湖 | | (内タンザニアは | | | | | | | |
| | は 13,510) | 84%:670を領有) | | | | | | | |
| ニャサ湖 | 29,750 | | | | | | | | 300 |

注:降水量は 1999 年のもの。また、タンガニーカの情報は一部 http://www.fao.org/fi/ltr/gen.htm から入手。

付表 3 全国人口予測

| 年 | 人口(人) |
|------------------|------------|
| 1998 | 31,953,426 |
| 1999 | 32,931,442 |
| 2000 | 33,952,136 |
| 2001 | 35,013,440 |
| 2002 | 36,112,684 |
| 2003 | 37,246,156 |
| 2004 | 38,349,576 |
| 2005 | 39,420,144 |
| 2006 | 40,460,032 |
| 2007 | 41,471,256 |
| 2008 | 42,455,868 |
| 2009 | 43,501,240 |
| 2010 | 44,559,396 |
| 2011 | 45,625,492 |
| 2012 | 46,694,552 |
| 2013 | 47,761,536 |
| 成長率1998-2013年(%) | 49.47 |

出所: UNFPA

付表 4 1988 年人口センサスに基づく州別人口予測

| | | | | | 成長率 |
|----------|-----------|-----------|-----------|-----------|------------|
| 州 | 1998年予測値 | 2003年予測値 | 2008年予測値 | 2013年予測値 | 1998-2013年 |
| | | | | | (%) |
| タンガ | 1,755,161 | 2,030,294 | 2,326,724 | 2,664,633 | 51.82 |
| タボラ | 1,428,831 | 1,666,642 | 1,930,443 | 2,236,388 | 56.52 |
| シンギダ | 1,063,130 | 1,228,758 | 1,419,455 | 1,639,463 | 54.21 |
| シニャンガ | 2,533,555 | 2,999,393 | 3,534,170 | 4,166,978 | 64.47 |
| ルクワ | 980,725 | 1,164,529 | 1,378,883 | 1,637,261 | 66.9 |
| ルブマ | 1,067,539 | 1,224,503 | 1,393,624 | 1,583,848 | 48.36 |
| ムトワラ | 1,112,072 | 1,235,593 | 1,364,433 | 1,502,414 | 35.1 |
| ムワンザ | 2,621,119 | 3,048,589 | 3,486,815 | 3,967,641 | 51.37 |
| モロゴロ | 1,603,489 | 1,831,905 | 2,083,649 | 2,371,748 | 47.91 |
| ンベヤ | 2,019,269 | 2,336,673 | 2,678,958 | 3,070,923 | 52.08 |
| マラ | 1,361,225 | 1,600,270 | 1,839,815 | 2,083,342 | 53.04 |
| リンディ | 804,174 | 900,995 | 1,011,061 | 1,136,058 | 41.27 |
| キゴマ | 1,178,196 | 1,387,606 | 1,623,636 | 1,881,784 | 59.72 |
| キリマンジャロ | 1,660,396 | 2,013,082 | 2,419,021 | 2,909,453 | 75.23 |
| カゲラ | 1,772,739 | 2,059,092 | 2,359,679 | 2,670,422 | 50.64 |
| イリンガ | 1,647,077 | 1,910,736 | 2,186,082 | 2,496,536 | 51.57 |
| ドドマ | 1,659,049 | 1,896,514 | 2,146,830 | 2,422,460 | 47.34 |
| コースト | 732,880 | 802,854 | 881,584 | 961,800 | 31.24 |
| アルーシャ | 1,955,941 | 2,355,793 | 2,834,228 | 3,422,587 | 74.98 |
| ダルエスサラーム | 2,015,006 | 2,389,294 | 2,788,234 | 3,219,005 | 59.75 |

出所: UNFPA

付表 5 東アフリカ 3ヶ国における栄養摂取状況の推移

| | + | タンパク質 | 脂肪 | 肉類 | 類の消費 | 魚類 | 頭の消費 | 水産物のタンパク質 摂取への貢献度 |
|--------|------------|---------|-------------|--------------|----------------|--------------|---------|----------------------|
| | カロリー | タノハク貝 | 为自为力 | 1人当た り消費量 | 肉類由来の タンパク質 | 1人当た り消費量 | 魚類由来 | そのタンパク質 |
| | (kcal/day) | (g/day) | (g/day) | (kg/year) | (g/day) | (kg/year) | (g/day) | (%) |
| アフリカ平均 | 2,411 | 59.7 | 49.7 | 14.2 | 5.5 | 6.8 | 2.0 | 16.0 |
| ケニア | 1,886 | 48.9 | 45.5 | 13.7 | 5.4 | 4.5 | 1.4 | 9.4 |
| タンザニア | 1,940 | 46.8 | 30.4 | 9.5 | 3.7 | 9.4 | 3.2 | 32.7 |
| ウガンダ | 2,238 | 49.8 | 31.3 | 10.3 | 3.8 | 8.6 | 2.6 | 28.8 |

出所:FAO 年間統計

付表 6 漁民・漁船・漁具数の推移

| | | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|-----|----------------|---------|---------|---------|---------|-----------|-----------|
| 漁民数 | | 76,952 | 61,497 | 61,943 | 61,666 | 75,516 | 75,621 |
| 漁船数 | | 24,245 | 19,955 | 20,976 | 19,361 | 22,464 | 22,976 |
| 漁具数 | 刺し網 | 242,398 | 123,428 | 155,594 | 155,537 | 189,544 | 178,723 |
| | 地引き網 | 2,610 | 1,972 | 2,064 | 2,064 | 1,693 | 1,693 |
| | リフトネット | 1,010 | 717 | 945 | 945 | 1,403 | 1,403 |
| | リングネット | 104 | 92 | 92 | 92 | 221 | 221 |
| | Hook/Hand Line | 594,016 | 476,158 | 474,763 | 474,763 | 1,693,032 | 1,699,874 |
| | 巻き網漁船 | 467 | • | • | ı | - | |

出所:水產局統計

注:巻き網漁船(商業用と工業用の合計)

付表 7 船外機価格 3 ヶ国比較

(価格はシリング換算)

単位: Tsh.100万

| | ケニアでの価格 | ウガンダでの価格 | タンザニアでの価格 |
|-------------|---------|----------|------------|
| YAMAHA 8HP | | 1.41 | 0.85 (5HP) |
| YAMAHA 15HP | 2.28 | 1.73 | 1.4 |
| YAMAHA 25HP | 2.85 | 2.25 | 1.7 |
| YAMAHA 40HP | 3.65 | 2.82 | 2.1 |

出所:本調査団による

付表 8 キリンサイ養殖生産の推移

| 年 | 総生産 (mt) | タンザニア生産 (mt) | タンザニアのシェア (%) | 平均単価 (US\$/kg) |
|------|----------|--------------|---------------|----------------|
| 1990 | 21,469 | 1,200 | 5.6 | 0.26 |
| 1991 | 24,503 | 1,800 | 7.3 | 0.24 |
| 1992 | 23,687 | 2,500 | 10.6 | 0.23 |
| 1993 | 22,679 | 2,500 | 11.0 | 0.25 |
| 1994 | 20,207 | 3,000 | 14.8 | 0.25 |
| 1995 | 17,243 | 4,000 | 23.2 | 0.27 |
| 1996 | 21,031 | 3,000 | 14.3 | 0.36 |
| 1997 | 18,240 | 3,000 | 16.4 | 0.33 |
| 1998 | 18,597 | 5,000 | 26.9 | 0.29 |
| 1999 | 25,118 | 7,000 | 27.9 | 0.29 |

出所: FAO Year Book 1999

付表 9 都市部における魚・肉類の嗜好性

| | 好まれる魚・肉類 | Į | 嫌いな魚・肉類 | | | |
|---|----------|-------|---------|-----|-----|--|
| 1 | 牛肉 | 1,311 | 1 | 豚肉 | 487 | |
| 2 | 鮮魚 | 1,160 | 2 | 塩干魚 | 271 | |
| 3 | 鶏肉 | 785 | 3 | 鶏卵 | 191 | |
| 4 | ヤギ肉 | 421 | 4 | ヤギ肉 | 188 | |
| 5 | ダガー | 289 | 5 | ダガー | 140 | |
| 6 | 豚肉 | 195 | 6 | 鮮魚 | 88 | |
| 7 | 鶏卵 | 117 | 7 | 鶏肉 | 66 | |
| 8 | 塩干魚 | 117 | 8 | 牛肉 | 23 | |

出所:漁村社会経済調査

注:生産地に近い都市部において 690 人を対象にした調査。数値は嗜好の1位から3位までを加重加算した点数。

付表 10 ダルエスサラーム市民の肉類・魚類の摂取頻度 (前日に肉や魚を食べた人の頻度)

〔昼食〕

| | 牛肉 | ヤギ | ニワトリ | 鮮魚 | 干魚 | ダガー | 魚合計 |
|-----|------|-----|------|------|-----|-----|------|
| 貧民層 | 13.7 | 0.0 | 0.0 | 0.9 | 2.6 | 4.3 | 7.8 |
| 中間層 | 21.8 | 0.0 | 0.0 | 9.6 | 5.1 | 6.4 | 21.1 |
| 富裕層 | 20.6 | 0.0 | 0.0 | 10.0 | 0.0 | 0.0 | 10.0 |

〔晚食〕

| | 牛肉 | ヤギ | ニワトリ | 鮮魚 | 干魚 | ダガー | 魚合計 |
|-----|------|-----|------|------|-----|------|------|
| 貧民層 | 12.8 | 0.0 | 0.0 | 2.6 | 8.5 | 4.3 | 15.4 |
| 中間層 | 23.7 | 0.6 | 0.0 | 7.1 | 7.1 | 11.5 | 25.7 |
| 富裕層 | 30.0 | 0.0 | 3.3 | 10.0 | 0.0 | 6.7 | 16.7 |

出所: Tanzania Food and Nutrition Center, November 2000

付表 11 水産物と他の肉類の価格比較

単位: Tsh./kg

| Ī | 鮮魚 | 塩干魚 | ヤギ肉 | 牛肉 |
|---|-------|-------|-------|-----|
| | 1,271 | 1,544 | 1,323 | 998 |

出所:タンザニア統計局

付表 12 水産物の輸出先別数量及び金額の推移 1998-2001 年

[量] 単位:Ton

| 輸出先 | 1998年 | 1999年 | 2000年 | 2001年 | 増減率(%) |
|-------|--------|--------|--------|--------|---------|
| ヨーロッパ | 20,583 | 14,481 | 33,113 | 30,372 | 147.56% |
| アフリカ | 9,228 | 6,254 | 5,878 | 9,773 | 105.90% |
| アジア | 2,907 | 4,890 | 2,481 | 3,297 | 113.41% |
| 中近東 | 1,720 | 1,045 | 258 | 934 | 54.29% |
| アメリカ | 934 | 2,626 | 916 | 2,159 | 231.08% |
| 合計 | 35,373 | 29,296 | 42,646 | 46,535 | 131.55% |

[金額] 単位: Ton

| 輸出先 | 1998年 | 1999年 | 2000年 | 2001年 | 増減率(%) |
|-------|------------|------------|------------|------------|---------|
| ヨーロッパ | 54,409,092 | 31,731,968 | 65,315,345 | 68,362,660 | 125.65% |
| アフリカ | 6,250,693 | 3,360,906 | 2,191,738 | 12,566,146 | 201.04% |
| アジア | 7,498,277 | 12,012,172 | 5,737,749 | 8,677,386 | 115.73% |
| 中近東 | 4,081,946 | 2,646,420 | 681,188 | 2,469,848 | 60.51% |
| アメリカ | 2,296,423 | 6,017,313 | 1,632,823 | 4,386,150 | 191.00% |
| 合計 | 74,536,431 | 55,768,779 | 75,558,843 | 96,462,190 | 129.42% |

出所: Tanzania Revenue Authority

付表 13 タンザニアの総輸出入と水産物の比率の推移 1992-2000年

単位:100万ドル

| 年 | 総輸出額 | | | 水産物 | | | |
|------|--------|---------|---------|--------|--------|------|-----------|
| | 輸出 | 輸入 | | 輸出 | 輸入 | | 全輸出に占める水産 |
| | (百万ドル) | (百万ドル) | バランス | (百万ドル) | (百万ドル) | バランス | 物の比率(%) |
| 1992 | 397.0 | 1,316.6 | -919.6 | 6.2 | n.a. | n.a. | 1.6 |
| 1993 | 439.3 | 1,274.9 | -835.6 | 9.6 | n.a. | n.a. | 2.2 |
| 1994 | 519.4 | 1,309.3 | -789.9 | 22.5 | n.a. | n.a. | 4.3 |
| 1995 | 682.9 | 1,340.5 | -657.6 | 22.2 | n.a. | n.a. | 3.3 |
| 1996 | 763.8 | 1,212.6 | -448.8 | 61.8 | n.a. | n.a. | 8.1 |
| 1997 | 752.6 | 1,148.0 | -395.4 | 70.2 | n.a. | n.a. | 9.3 |
| 1998 | 588.5 | 1,366.0 | -777.5 | 83.5 | 0.14 | | 14.2 |
| 1999 | 541.0 | 1,418.6 | -877.7 | 68.8 | 0.17 | | 12.7 |
| 2000 | 662.7 | 1,536.3 | -873.43 | 64.5 | n.a. | n.a. | 9.7 |

出所: MNRT 及び JETRO

付表 14 タンザニアの水産物の輸出の推移とその構成比の変化

| | 水産物全体 | ナイルパーチ | エビ | その他 |
|------|----------------|--------|------|------|
| | US\$ (million) | フィレ | | |
| 1990 | 6.3 | - | 5.4 | 0.9 |
| 1991 | 8.0 | - | 6.8 | 1.2 |
| 1992 | 6.1 | - | 4.8 | 1.3 |
| 1993 | 9.6 | 3.2 | 4.9 | 1.5 |
| 1994 | 22.5 | 8.6 | 6.0 | 7.9 |
| 1995 | 22.2 | 13.1 | 5.1 | 4.0 |
| 1996 | 61.8 | 52.3 | 5.5 | 4.0 |
| 1997 | 70.2 | 54.8 | 4.3 | 11.0 |
| 1998 | 83.5 | 65.8 | 10.8 | 6.9 |
| 1999 | 61.8 | 52.0 | 5.1 | 4.7 |
| 2000 | 64.5 | 45.9 | 5.6 | 13.0 |

出所:天然資源観光省水産局

付表 15 EAC3 ヶ国における投資環境の比較

| | タンザニア | ケニア | ウガンダ |
|--------------------|---------|---------------|----------------|
| 法定最低賃金(US\$/month) | 37.50 | 60.41 | 50-100 |
| 電気代(工場価格:KVA 当り) | 7.44 | 1.35 | 5.37 |
| 水道代(工場価格:11 当り) | 0.025 | 0.049 | 0.960 |
| 電話設置工事(US\$) | 128.14 | 21.29 | 67.11 |
| 輸送(トラック新車価格) | 137,520 | 2,845-140,825 | 56,376-132,886 |
| 燃料 (ガソリン 1L 当り) | 0.68 | 0.7 | 0.81 |
| 税金(VAT) | 20% | 18% | 17% |

出所: JETRO

付表 16 カエンゼ村水揚げ基地仕様

| | 13 24 10 | | / III 1/3· |
|----------|---------------|-------------------|-------------------|
| | 規模 | 建設費 | 備考 |
| 桟橋及び搬入道路 | | Tsh.39.8 百万 | スチール製で水面の浮動があり予 |
| | | (材料費 Tsh.28.1 百万、 | 算があればコンクリート製の恒久 |
| | | 建設労賃 Tsh.11.7 百万) | 桟橋としたい。 |
| 浮桟橋 | (L)25mx(W)10m | 28 百万 Tsh. | 基地内の搬入道路あり |
| | x(D)2m | | |
| 事務所建物 | 3 室 + 便所 | 10.8 百万 Tsh. | 3000Lのウォータ - ・タンク |
| | | | 施設周囲にフェンス 40mx90m |

出所:本調査団による聞き取り調査

注:他の6ヶ所の浮桟橋は(L) 12mx(W) 10mx(D) 1.2mで湖岸に設置されずに沖合いに繋留されているものもある。現在繋留場所として、湖畔の漁村コミュニティー52 ヶ所がエントリーしている。

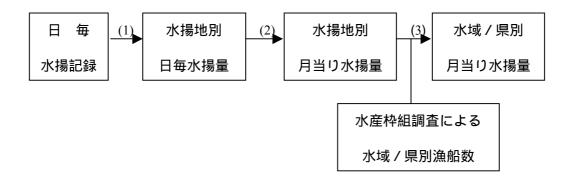
付表 17 年間漁業統計作成のための水域・県別サンプリング水揚げ地の数

| | 水域 / 県 | 水揚地 | 也数 |
|-------|--------------|------|------|
| | | 全体 | サンプル |
| a)海 | 水面 | | |
| 1 | Tanga | 46 | 5 |
| 2 | Coast | 83 | 4 |
| 3 | DSM | 16 | 3 |
| 4 | Lindi | 38 | 4 |
| 5 | Mtwara | 27 | 1 |
| - | 合計 | 210 | 17 |
| b)ビ | クトリア湖 | | |
| 1 | Kagera | 140 | 6 |
| 2 | Mwanza | 210 | 8 |
| 3 | Mara | 101 | 4 |
| - | 合計 | 451 | 18 |
| c)タ: | ンガニーカ湖 | | |
| 1 | Kigoma | 88 | 11 |
| 2 | Rukwa | 60 | 6 |
| - | 合計 | 148 | 17 |
| d) — | ヤサ湖 | | |
| 1 | Mbeya | 10 | 3 |
| 2 | Iringa | 6 | 6 |
| 3 | Ruvuma | 88 | 5 |
| - | 合計 | 104 | 14 |
| _ | テラ・ダム | | |
| 1 | Iringa | 16 | 4 |
| 2 | Dodoma | 14 | 4 |
| - | 合計 | 30 | 8 |
| | ュンバ・ヤ・ムング・ダム | | |
| 1 | Kilimanjaro | 4 | 1 |
| 2 | Arusha | 4 | 1 |
| - | 合計 | 8 | 2 |
| g)小 | 規模内水面 | | |
| 1 | Arusha | n.a. | 4 |
| 2 | Dodoma | n.a. | 3 |
| 3 | Iringa | n.a. | 4 |
| 4 | Shinyanga | n.a. | 5 |
| - | 合計 | n.a. | 16 |
| _ | 総合計 | 951 | 92 |

出所:天然資源観光省水産局

付表 18 県別水揚量の推計

サンプリングされた水揚地における日毎水揚記録 (Daily Records of Fish Landed)に基づき、水域/県別の月間水揚量が以下の手順で推計される。



| 手順(1) | 手順(2) | 手順(3) |
|-------------|-------------------|--|
| 各水揚地の水揚量 | 各水揚地の月当り水揚 | 水産枠組調査結果より各水揚地の漁船数(sboat)およ |
| の日毎合計 (dvl) | 記録日数 (rday) が計算 | び水域/県の漁船総数(rboat)をとりだす。 |
| が求められる。 | される。 | |
| | 各水揚地の月当り水揚 | 水域/県内の各水揚地の漁船数の合計(tsboat)および |
| | 量の合計 (rvl) が求めら | 月別水揚量の合計(tmvl)を求める。 |
| | れる。 | $tboat = \sum sboat : tmvl = \sum mvl$ |
| | $rvl = \sum dvl$ | |
| | 各水揚地の平均日別水 | 水域/県において漁船 1 隻当り平均月間水揚量は一定 |
| | 揚量(avl)が求められる。 | であるとし、水域/県の月別水揚量(rmvl)を次式に |
| | avl = rvl / rday | より推計する。 |
| | | 水域/県の月別水揚量 全水揚地の月別水揚量の合計 |
| | | |
| | | rmvl / rboat = tmvl / tsboat |
| | | すなわち rmvl = tmvl / tsboat * rboat |
| | 各水揚地の月当り水揚 | |
| | 量(mvl)が計算される。 | |
| | mvl = avl * nday; | |
| | nday= 当該月の日数 | |

魚種別水揚量、漁法別水揚量についても同様の方法で水域/県別の推計が可能である。また、水揚総額についても同様の推計が可能である。

付表 19 貧困指標の全国・農村・漁村比較

| 項目 | 全国 2000 | 農村 2000 | 漁村 2001 |
|---|----------------------------------|------------|-------------|
| THE SOCIO-ECONOMIC STATUS | OF HOUSEHOLDS | | |
| Average Household Size | | | |
| Number of dependants (age of 15-60) | 5.4 | 5.5 | Approx. 6.5 |
| Distribution of Households by Source of | of Drinking Water (%) | | |
| Piped water in the house | 3.9 | 0.8 | 2.1 |
| Private pipe outside the house | 17.4 | 7.9 | 2.0 |
| Communal pipe | 18.2 | 19.0 | 33.8 |
| Protected water source | 15.9 | 18.6 | 13.5 |
| Unprotected water source | 44.4 | 53.2 | 41.7 |
| Others | - | - | 6.9 |
| Distribution of Households by Type of | Toilet (%) | | |
| Flush Toilet | 1.9 | 0.3 | 2.1 |
| Pit | 90.7 | 91.4 | 82.2 |
| No toilet/ other | 7.4 | 8.3 | 15.8 |
| Distribution of Households by Construc | ction Materials - House floor (% | (6) | |
| Earth | 76.5 | 89.8 | 68.8 |
| Concrete | 22.3 | 9.0 | 21.4 |
| Other | 1.2 | 1.2 | 9.8 |
| - House roof (%) | | | |
| Grass/ mud | 58.7 | 71.0 | 62.6 |
| Metal sheets | 39.9 | 28.3 | 32.8 |
| Asbestos/ tiles | 1.4 | 0.8 | 0.2 |
| Other | - | - | 4.4 |
| Percentage of Households Reporting O | wnership of Selected Consumer | Goods (%) | |
| Telephone | 1.0 | 0.0 | 1.4 |
| Refrigerator | 2.4 | 0.6 | 1.0 |
| Sewing machine | 3.9 | 1.9 | 4.7 |
| Television | 2.3 | 0.3 | 2.1 |
| Video | 1.8 | 0.3 | 1.5 |
| Watch | 31.4 | 25.2 | 44.6 |
| Radio/ cassette | 45.0 | 39.0 | 56.2 |
| Electric/ charcoal iron | 23.7 | 18.5 | 22.6 |
| Electric/ gas stove | 2.4 | 0.5 | 29.0 |
| Other stove | 41.8 | 30.8 | 20.8 |
| Motor vehicle | 1.0 | 0.6 | 0.5 |
| Bicycle | 31.7 | 32.0 | 30.7 |
| EDUCATION AND OTHER SERVIO | | | |
| Distribution of Households by level of | | | |
| None | 28.2 | 31.5 | 11.0 |
| Std 1-4 | 17.3 | 18.7 | 17.4 |
| Std 5-8 | 42.5 | 40.3 | 62.3 |
| Form 1-4 | 4.6 | 2.9 | 6.6 |
| Form 5+ | 3.3 | 2.0 | 0.4 |
| Other | 4.1 ANZANIA and Oxford Policy | 4.7 | 2.3 |

出所: National Bureau of Statistics TANZANIA and Oxford Policy Management Ltd. UK (2001) Trends in Poverty and Social Indicators: Tanzania 1991/92-2000 A Preliminary Analysis (Final Draft)

JICA Study Team for Fisheries Development Master Plan (2001) Socio-economic Survey of Fishing Communities in Tanzania Mainland

付表 20 組合と協同組合の比較

| 団体名 | 組合 (Society) | 協同組合 (Cooperative Society) |
|--------|--|--|
| 登録先 | 内務省 (Ministry of Home Affairs) | 組合市場省 (Ministry of Cooperatives & Marketing) |
| 登録先組織 | DSM 本省に Registrar 1 名、State Attorney 1 名、Society Officers 2 名が配属される。 | Dodoma 本省に Registrar 1 名と Assistant Registrars 4 名が配属される。また各州(20州)に Assistant Registrars が配属、各県及び区(ダルエスサラームに限って)に数名の組合職員(Cooperative Officers)が配属される。 |
| 担当職員人数 | 4 | 85~100 |
| 法律 | 組合法 1954 (Societies Chapter 337 of the laws) | 協同組合法 1991 (Co-operative Societies Act 1991) |
| 定義 | 'Society' includes any club, company, partnership or association of ten or more persons whatever its nature or object but does not include; (a) company registered under the Companies Ordinance or any company which has complied with the requirements of section 321 of that Ordinance, (b) any company, council, authority, association, board or committee lawfully constituted or established under Royal Charter, or Royal Letter Patent, or Applied Act, or any law for the time being in force in Tanganyika, (c) any Lodge of Freemasons regularly constituted under any of the registered governing bodies of Freemasons in the United Kingdom of Great Britain and Northern Ireland, (d) any trade union registered under the Trade Unions Ordinance, (e) any company, association or partnership consisting of not more than twenty persons, formed and maintained for the sole purpose of carrying on any lawful business, (f) any co-operative society registered under the Co-operative Societies Ordinance, and (g) any society which the President may, by order published in the Gazette, declare not to be a society for the purposes of this Ordinance. | An association of persons who have voluntarily joined together for the purpose of achieving a common need through the formation of a democratically controlled organization and who make equitable contributions to the capital required for the formation of such an organization, and who accept the risks and the benefits of the undertaking in which they actively participate. |
| 登録方法 | 書類 7点(Application letter、 組合員全員に確認された組合規則 2部、 メンバーのリスト、 組合規則を組合員に確認を行う会合の報告書、 Form 二部(SO.1及びSO.2)、 Office bearer の CV、及び DC、RC、Parent Ministry 等からの推薦状)を本省に提出。また団体の組合登録料として、Tsh.40,000 (local)、US\$500 (foreign)を支払う。以上の書類が登録官によって確認された後、承認が行われると組合登録証が発行される。 | 書類 5 点(Application letter、 組合員全員に確認された組合規則 4 部、 メンバーのリスト、 二回の会合(Cooperative Office の出席が条件)の報告書、 組合運営資金の根拠)を区の Cooperative Officer に提出。団体の組合登録料 Tsh.5,000を支払う。それに加え、 組合の運営資金にあわせた share の設定、 事務局の設置、 会計年度末の会計検査官による検査の設定、 組合のボードメンバーとして Chairperson、Secretary、Treasurer、Rep. members 7 名、合計 10 名の選択、Cooperative Officer による登録希望団体の活動場所と活動内容の確認が行われる。その後、登録官による承認が行われると協同組合登録証が発行される。 |
| 最低組合人数 | 10人 | 10 人 (特殊な業種のみ 4 名以上の団体でよしとする) |
| 継続条件 | 毎年一回の会合を開き、その報告書及び会計報告、年会費 (Tsh.10,000 もしくは US\$20)を内務省に提出する。 | 毎年6月と12月に2回会合を開き、運営管理に関する活動、会計報告を協同組合員及び組合職員に行う。この会合で選挙が行われボードメンバーが3年を任期に選出される。以上に挙げた条件等を怠ると組合は活動停止中とみなされ、この状態が3年以上続くと組合登録は破棄される。 |
| 全国登録数 | Approximately 8,559 | 4,253 |

出所:組合法 1954、協同組合法 1991 及び関係者聞取り調査

付表 21 2000/2001 年度タンザニア全国州別・セクター別単協数

| 州 | 水產 | Ĕ業 | 農業生 | 産 | SAC | COS | 畜產 | Ĕ業 | 建築 | 柴業 | 鉱物 | 物業 | 工業 | | その | 他 |
|---------------|----|-----------|-------|-----|-----|-----|----|-----------|----|-----------|----|----|-----|----|-----|----|
| 711 | A* | I** | A | I | A | I | A | I | A | I | A | I | A | I | A | I |
| ARUSHA | 0 | 0 | 36 | 49 | 58 | 9 | 1 | 5 | 0 | 0 | 0 | 0 | 9 | 1 | 2 | 2 |
| DAR ES SALAAM | 4 | 0 | 20 | 2 | 103 | 39 | 6 | 0 | 2 | 11 | 0 | 0 | 35 | 0 | 8 | 6 |
| DODOMA | 0 | 0 | 0 | 15 | 30 | 6 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 14 | 6 |
| IRINGA | 5 | 0 | 61 | 56 | 59 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 7 | 3 | 0 |
| KAGERA | 1 | 4 | 216 | 1 | 75 | 20 | 26 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 2 | 1 |
| KIGOMA | 2 | 0 | 25 | 16 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| KILIMANJARO | 0 | 0 | 120 | 0 | 69 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 28 | 0 |
| LINDI | 0 | 0 | 76 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 33 | 0 |
| MARA | 0 | 0 | 149 | 0 | 9 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 6 | 0 |
| MBEYA | 15 | 1 | 138 | 0 | 105 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 7 | 0 |
| MOROGORO | 0 | 0 | 56 | 20 | 24 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 15 | 0 | 9 | 0 |
| MTWARA | 2 | 0 | 124 | 3 | 18 | 4 | 0 | 1 | 0 | 2 | 0 | 0 | 3 | 2 | 0 | 1 |
| MWANZA | 13 | 5 | 342 | 1 | 19 | 3 | 2 | 0 | 6 | 0 | 0 | 0 | 4 | 4 | 16 | 0 |
| PWANI | 0 | 0 | 91 | 2 | 17 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 93 | 8 | 100 | 0 |
| RUKWA | 9 | 1 | 56 | 3 | 15 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| RUVUMA | 0 | 0 | 95 | 15 | 27 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SHINYANGA | 3 | 0 | 497 | 9 | 26 | 3 | 5 | 6 | 2 | 0 | 0 | 0 | 4 | 0 | 4 | 0 |
| SINGIDA | 0 | 0 | 43 | 11 | 10 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 1 | 0 |
| TABORA | 5 | 0 | 211 | 16 | 22 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 |
| TANGA | 0 | 0 | 42 | 0 | 38 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 28 | 0 |
| Total | 59 | 11 | 2,398 | 219 | 745 | 138 | 83 | 13 | 16 | 22 | 0 | 0 | 235 | 30 | 268 | 16 |

出所: 2001、Ministry of Cooperatives and Marketing

*現在活動中

**現在活動停止中

付表 22 3 つの漁業訓練施設の予算及び年間受講料

| | ムベガニ漁業開発センター | クンズチ漁業訓練センター | ニゲジ内水面漁業訓練学校 |
|---------------|--------------|--------------|--------------|
| 2000/01 年度の予算 | 126,000,000 | 80,000,000 | 56,000,000 |
| 年間受講料 | 3,750,000 | 4,387,000 | 11,540,000 |

出所:水產局

付表 23 3 つの漁業訓練施設の過去 5 年間の総卒業生の数

| 漁業訓練施設 | 1996/97 | 1997/98 | 1997/99 | 1999/00 | 2000/01 | 設立以後の合 計卒業者数 |
|--|---------|---------|---------|---------|---------|-----------------|
| ムベガニ漁業開発センター | | | | | | |
| Fish Processing Department | | | | | | |
| 2 year Fish Technology Diploma Course | 30 | 36 | 28 | 32 | 40 | |
| 2 year Fish Technology Certificate Course | | | | | 25 | |
| 1 year Aquaculture Certificate Course | | | | | | |
| Short Course | | | | | | |
| Natural Science Department | | | | | | |
| 2 year Master fisherman Diploma Course | | | 24 | | 38 | |
| 2 year Fishing Technology Certificate Course | | | 20 | | 30 | |
| 18 month Class 4/3 of Competence | | | | | | |
| 6 month Class 4 of Competence | | | | | | |
| Short and Tailor-made Courses | | | | | | |
| Marine Engineering Department | | | | | | |
| 2 year Marine Engineering (Mechanical) | | | | | | |
| Diploma Course | 36 | 29 | | 38 | | |
| 2 year Marine Engineering (Refrigeration) | | | | | | |
| Diploma Course | 22 | 17 | | 24 | | |
| 1 year Class 3 of Competence | | | | | | |
| 1 year Marine Refrigeration Engineering | | | | | | |
| Specialist Course | | | | | | |
| 1 year Marine Electrical Engineering Specialist | | | | | | |
| Course | | | | | | |
| 1 year Marine Electronic Engineering Specialist Course | | | | | | |
| Short Course | | | | | | |
| | | | | | | |
| Boat Building Department 2 year Boat Building Diploma Course | 8 | 6 | 4 | 7 | 11 | |
| 2 year Boat Building Certificate Course | 5 | 3 | 4 | 4 | 5 | |
| Short Courses | 3 | 3 | | 4 | | |
| クンズチ漁業訓練センター | | | | | | |
| | 1 | | | | | 1 |
| 1 year course | 17 | 12 | 11 | 7 | 1.6 | 2.700 |
| 2 year course | 17 | 12 | 11 | 7 | 16 | 2,700 |
| 3 year course | | | | | | |
| Other courses | 1.77 | 10 | 1.1 | | 1.6 | 2.700 |
| 合計 - 보자 | 17 | 12 | 11 | 7 | 16 | 2,700 |
| ニゲジ内水面漁業訓練学校 | 1 | | | | | |
| 1 year Fish Culture Certificate Course | | 1 | 1 | 1 | | 3 |
| 1 year Fish Handling, Processing & Quality | | | _ | _ | | |
| Control Certificate Course | | 3 | 4 | 4 | 1.4 | 11 |
| 1 year Refrigeration Certificate Course | 10 | 10 | 1.4 | 10 | 14 | 14 |
| 2 years Fisheries Certificate Course | 19 | 12 | 14 | 1200 | 21 | 78 |
| Other short courses | 1232 | 246 | 72 | 1290 | 93 | 2933 |
| 合計 | 1251 | 262 | 91 | 1307 | 128 | 3039 |

出所:各漁業訓練施設

付表 24 天然資源観光省 2001 年度予算

| 収入 | Approved Estimates | | | | | | |
|----------------------------|------------------------|---------------------------|------------|-------------|----------------|--|--|
| Administration and General | | 22,803,000 | | | | | |
| Wildlife | | 5,558,458,000 | | | | | |
| Foresty and Beekeeping | Foresty and Beekeeping | | | | 4,009,542,000 | | |
| Fisheries | | | | | 3,470,383,000 | | |
| Tourism | | | | | 625,703,000 | | |
| Antiquities | | | | | 79,100,000 | | |
| Total | | | | | 13,765,989,000 | | |
| 経常予算 | 職員数 | | Approved l | Estimates | | | |
| 経吊丁昇 | 職貝奴 | 人件費 | その |)他 | 合計 | | |
| Administration | 328 | 248,032,400 | 751,2 | 245,200 | 999,277,600 | | |
| Finance and Accounts | 83 | 73,445,700 | 278,5 | 501,700 | 351,947,400 | | |
| Policy and Planning | 10 | 12,359,900 | 298,4 | 101,700 | 310,761,600 | | |
| Wildlife | 883 | 609,687,800 | 2,150,7 | 713,000 | 2,760,400,800 | | |
| Forestry and Beekeeping | 1,976 | 1,328,788,000 | 2,285,0 | 71,100 | 3,613,859,100 | | |
| Fisheries | 204 | 185,367,200 | 2,434,5 | 556,000 | 2,619,923,200 | | |
| Tourism | 43 | 46,710,400 | 245,7 | 783,600 | 292,494,000 | | |
| Antiquities | 47 | 42,892,000 | 129,5 | 516,700 | 172,408,700 | | |
| Sub-Total | 3,574 | 2,547,283,400 | 8,573,7 | 789,000 | 11,121,072,400 | | |
| TAWIRI | 30 | 39,658,400 | 85,8 | 371,100 | 125,529,500 | | |
| TAFORI | 156 | 249,337,600 | 100,0 | 000,000 | 349,337,600 | | |
| TAFIRI | 170 | 274,006,400 | 100,0 | 000,000 | 374,006,400 | | |
| TTB | 31 | 141,831,900 | 1,273,5 | 519,100 | 1,415,351,000 | | |
| National Museum | 98 | 158,568,500 | 14,8 | 34,200 | 173,402,700 | | |
| Marine Parks | 29 | 98,670,700 | | 0 | 98,670,700 | | |
| Sub-Total | 517 | 962,063,500 | 1,574,2 | 224,400 | 2,536,287,900 | | |
| Grand Total | 4,091 | 3,509,346,900 | 10,149,0 | 13,400 | 13,658,360,300 | | |
| Total | 12,270 | 10,528,050,700 | 30,445,0 | 040,200 | 40,973,090,900 | | |
| 用発予算 開発予算 | | | Approved | Estimate | | | |
| | | Local | | | Foreign | | |
| Policy and Planning | | 321 | ,205,000 | | 3,100,000,000 | | |
| Wildlife | | | - | | 1,044,024,000 | | |
| Forestry and Beekeeping | | | - | | 1,221,440,000 | | |
| Tourism | - 145,833,0 | | | 145,833,000 | | | |
| Grand Total | | 321,205,000 5,511,297,000 | | | 5,511,297,000 | | |

出所:天然観光資源省

付表 25 水産物の目的別予算配分 2001/2002

| Objective | Targets | 2001/2002 |
|--|--|---|
| To Coordinate and review Policies and Legislation and Monitor their Implementation | To Review Legistrations To Ensure the Better and Timely Services To raise and maintain the quality of fish and fishery product To Coordinate, Monito and Evaluate the Sectoral Implementation | 34,900 453,538 510,315 936,207 |
| 2. To create an enabling environment that will lead to active participation | To conduct 524 Public awareness campaign To strengthen the fisheries information system To facilitate establishment of 20 and support 603 BMU To support the Kingolwire Fish Culture Center | 79,690 102,325 6,145 256,518 |
| 3. To undertake human resources development and institutional capacity building | To coordinate 10 applied fisheries research programmes Improve the working skills of 300 staff To improve the skills of staff and conduct 9 training programme for fishermen To support the three fisheries training institutes | 9,580 18,560 227,835 389,330 |
| 4. To protect natural resource | 1. To conduct 1000 sueveilance patrol to protect resources from illegal use | 130,635 |
| 5. To promote and strength regional and international cooperation | To support co-ordinance and participate meetings To participate in one collaboration initiative To conduct consultation | 28,625 1,940 13,444 |
| | Grand Total | 3,199,588 |

付表 26 水産物輸出、ロイヤリティー、水産局予算の推移

| | | 漁業生産 | 漁民数 | 水産物輸出 | 水産局予算 |
|-------|--|---------|--------|-------------|----------|
| 年 | 出来事 | (tons) | | (1000 Ligh) | (Tsh. |
| | | | | (1000 US\$) | Million) |
| 1950s | Introduction of Nile perch | | | | 215.3 |
| 1960s | Production of Nile perch 100,000 tons | | | | |
| 1970 | Fisheries Act | | | | |
| 1970s | Production of Nile perch 100,000 tons | | | | |
| 1980 | TAFIRI Act | | | | |
| 1982 | Local Government (District Authorities) Act | | | | |
| 1983 | FAO: Kigoma credit facility | | | | |
| 1980s | Production of Nile perch 500,000 tons | | | | |
| 1986 | Economic Recovery Programme | | | | |
| 1987 | LVEMP start | | | | |
| 1989 | Economic & Social Action Plan | | | | |
| ditto | Territorial Sea & Exclusive Economic Act | | | | |
| 1991 | | 326,713 | | | |
| 1992 | KDFDP start | 335,501 | | | |
| 1993 | Rolling Plan | 331,467 | 61,943 | | |
| 1994 | Marine Park & Research Act | 268,792 | ditto | | |
| 1995 | | 258,212 | 75,612 | | |
| 1996 | Private investment in processing plant (LV): US\$ 49.5 million | 356,800 | ditto | 52,906 | |
| 1997 | National Fisheries Policy & Strategy Statement | 356,960 | ditto | 64,212 | 193.6 |
| 1998 | | 348,000 | 78,672 | 72,468 | 1,842.40 |
| 1999 | Village Land Act | 310,000 | ditto | 61,790 | 1,828.70 |
| 2000 | | | | | 1,620.80 |
| 2001 | | | | | 2,619.90 |

出所:天然資源観光省水産局

付表 27 水産分野の課税システム

| | | Charge Basis | Collected by | Objectives | Charge Rate |
|---------------|--------------------------------|---------------------|---------------|----------------------------|----------------|
| Local or | Annual Fisher License | per fisher per year | DFO | Local government revenue | 1,000/- to |
| district | | | | Statistical indicator | 3,000/- |
| level | Vessel Registration Fee (<11m) | once off | DFO | Local government revenue | 1,000/- to |
| | | | | Effort management | 5,000/- |
| | Vessel License Fee | Annual | DFO | Local government revenue | 800/- to |
| | | | | Statistical indicator | 3,000/- |
| | | | | Management mechanism | |
| | Trading License | Annual | Treasurer | Local government revenue | 6,000/- to |
| | | | | | 30,000/- |
| | Fish Levy (Nile Perch) | per Kg | Private Agent | Local government revenue | 5/- to 10/- |
| | Fish Levy (Dagaa) | per sack (35 Kgs) | Private Agent | Local government revenue | 200/- to |
| | | | | | 600/- |
| | Fish Levy (Others)* | auction value | Treasurer | Local government revenue | 10% |
| | Landing Fee (Fishing Vessel) | per landing | Private Agent | Local government revenue | 200/- to |
| | | | | | 300/- |
| | Landing Fee (Collector Vessel) | per day | Private Agent | Local government revenue | 1,000/- to |
| | | | | | 3,000/- |
| Central level | Vessel Registration (>11m) | once off | RFO | Management measure | 52.4 |
| | | US\$ per Kg | | | (<15m) |
| | | advalorem | | Central government revenue | 53.0 to |
| | | | | | 54.8 |
| | | | | | (>15m) |
| | Export Royalty | | RFO | Central government revenue | |
| | | | | Resource use tax | |
| | Fillets (Fresh/chilled/frozen) | | | | 0.15 |
| | Dry Nile Perch | | | | 0.18 |
| | Fish maws (Dry) | | | | 0.36 |
| | Belly flaps (Fresh/chilled) | | | | 0.075 |
| | Off cuts (Fresh/chilled) | | | | 0.075 |
| | Fish meal (Dry) | | | | 0.012 |
| | Fish frames | | | | 0.009 |
| | Dagaa (L. Victoria) | | | | 0.042 |
| | Dagga (L. Tanganyika) | | | | 0.072 |
| | Aquarium fish | | | | 6% |
| | Sea shells | | | | 6% |

出所:天然資源観光省水産局

付表 28 州別経済状況

| | | | | | | Average | Industries | | Water | Number of |
|-------------|----------------|------------|----------|--------------|------------|--------------|--------------|-------------|--------|-----------|
| Study area | Region | Population | | GRDP | per Capita | contribution | Value Added | Electricity | urban | Fishermen |
| | | 1988 | 1995 | | | | | | | |
| | | Census | Estimate | 1994 | 1994 | 1980-94 | 1999 | 1999 | 1998 | 1998/99** |
| | | | 1000 | million Tsh. | Tsh. | % | million Tsh. | Mill. KwH | M3/Day | |
| | Tanga | 1,283,636 | 1,590.4 | 92,821 | 60,021 | 5.52 | 9,589 | 129 | 24,000 | 4,480 |
| | Pwani (Coast) | 638,015 | 774.3 | 17,033 | 22,624 | 1.00 | 2,163 | 6 | | 8,042 |
| Coastal | Dar es Salaam* | 1,360,850 | 1,651.5 | 335,847 | 197,107 | 20.33 | 67,738 | 771 | | 5,250 |
| | Lindi | 646,550 | 784.7 | 29,253 | 38,340 | 2.00 | 55 | 6 | 1,128 | 2,640 |
| | Mtwara | 889,494 | 1,079.5 | 62,491 | 59,533 | 3.27 | 31 | 15 | 5,000 | 2,056 |
| | Kagera | 1,326,183 | 1,653.0 | 80,537 | 50,105 | 4.60 | 1,040 | 16 | 7,515 | 5,637 |
| Victoria | Mwanza | 1,878,271 | 2,280.2 | 107,553 | 48,508 | 7.67 | 5,757 | 72 | 34,000 | 16,385 |
| | Mara | 970,942 | 1,178.3 | 50,127 | 43,748 | 3.47 | 1,366 | 19 | 9,560 | 10,381 |
| Tomoomyilso | Rukwa | 694,974 | 843.4 | 66,160 | 80,669 | 3.13 | 5 | 9 | | 3,056 |
| Tanganyika | Kigoma | 853,263 | 1,043.5 | 30,545 | 30,103 | 2.53 | 45 | 8 | 10,600 | 5,594 |
| | Ruvma | 783,327 | 950.6 | 48,565 | 52,537 | 3.33 | 365 | 10 | 8,510 | 4,481 |
| Nyasa | Iringa | 1,208,914 | 1,467.1 | 92,021 | 64,502 | 5.53 | 8,622 | 87 | 8,500 | 3,561 |
| | Mbeya | 1,476,199 | 1,791.5 | 84,903 | 48,737 | 6.00 | 4,443 | 67 | 18,000 | 1,770 |
| | Dodoma | 1,237,819 | 1,502.3 | 57,856 | 39,604 | 3.07 | 1,026 | 37 | 20,000 | 1,150 |
| | Arusha | 1,351,675 | 1,640.4 | 145,192 | 91,024 | 7.80 | 19,066 | 162 | 40,000 | n.a. |
| | Kilimanjaro | 1,108,699 | 1,345.5 | 72,898 | 55,716 | 3.67 | 8,663 | 109 | 20,500 | n.a. |
| Small water | Morogoro | 1,222,737 | 1,525.6 | 88,073 | 59,370 | 4.67 | 14,546 | 98 | 19,000 | 1,043 |
| | Singida | 791,814 | 960.9 | 51,995 | 55,664 | 2.87 | 120 | 9 | 1,500 | 962 |
| | Tabora | 1,036,293 | 1,257.7 | 55,012 | 44,984 | 3.40 | 768 | 22 | 10,500 | 1,365 |
| | Shinyanga | 1,763,960 | 2,151.5 | 110,353 | 52,746 | 5.80 | 2,079 | 40 | 6,000 | 368 |
| | Гotal | 22,523,615 | 27,471.9 | 1,679,235 | n.a. | 99.66 | 147,487 | 1692 | n.a. | 78,221 |

出所:2001, Ministry of Cooperative and Marketing *in action at present **no action at present

付表 29 県別漁業関連収入の推移

タンガ県

| Year | Weight (ton) | Value (1000 Tsh) | Fishing Levy (1000 Tsh) | Collection rate | License (1000 Tsh) |
|------|--------------|---------------------|-------------------------|-----------------|-----------------------|
| 1995 | 398.3 | 141,370.6 | 7,646.1 | n.a. | 2,035.0 |
| 1996 | 481.3 | 180,207.5 | 12,030.7 | n.a. | 2,358.1 |
| 1997 | 330.3 | 101,496.0 | 9,874.1 | n.a. | 4,750.2 |
| 1998 | 435.9 | 172,179.0 | 7,857.1 | n.a. | 4,811.9 |
| 1999 | 628.5 | 328,830.0 | 6,650.1 | n.a. | 5,043.9 |
| 2000 | 951.7 | 464,273.9 | 9,244.4 | n.a. | 4,589.8 |

出所: Tanga District Fisheries Officer

ムヘザ県

| Year | Weight (ton) | Value (1000 Tsh) | Fishing Levy (1000 Tsh) | Collection rate | License (1000 Tsh) |
|------|--------------|---------------------|-------------------------|-----------------|--------------------|
| 1995 | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1996 | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1997 | 263.5 | 59,886 | 671.0 | n.a. | n.a. |
| 1998 | 210.4 | 94,627 | 526.4 | 22 | n.a. |
| 1999 | 269.7 | 125,432 | 474.5 | 11 | n.a. |
| 2000 | n.a. | n.a. | n.a. | 8 | n.a. |

出所: Mheza District Fisheries Officer

イララ区

| Year | Weight (ton) | Value | Fishing Levy (1000 Tsh) | Collection rate | License (1000 Tsh) |
|------|--------------|-------|-------------------------|-----------------|--------------------|
| 1995 | 26,188.86 | n.a. | 9,008.5 | n.a. | 5,378.5 |
| 1996 | n.a. | n.a. | 10,432.3 | n.a. | 7,384.5 |
| 1997 | n.a. | n.a. | 33,783.5 | n.a. | 13,834.9 |
| 1998 | n.a. | n.a. | 18,071.6 | n.a. | 6,890.6 |
| 1999 | n.a. | n.a. | 20,047.9 | n.a. | 7,399.1 |
| 2000 | n.a. | n.a. | 39,955.1 | n.a. | 35,300.1 |

出所:Ilala District Fisheries Officer

キノンド二区

| Year | Weight (ton) | Value (1000 Tsh) | Fishing Levy (1000 Tsh) | Collection rate | License (1000 Tsh) |
|------|--------------|---------------------|-------------------------|-----------------|--------------------|
| 1995 | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1996 | 167.8 | 142,766 | n.a. | n.a. | n.a. |
| 1997 | 62.1 | 77,136 | n.a. | n.a. | n.a. |
| 1998 | 57.2 | 42,042 | 2,298.3 | 100.3 | 714.8 |
| 1999 | 60.3 | 40,496 | 2,350.6 | 100.2 | 1,100.5 |
| 2000 | 104.8 | 83,184 | 3,257.9 | 100.1 | 1,120.1 |

出所: Kinondomi District Fisheries Officer

テメケ区

| | Amount | Revenue Collection | Collection rate |
|------|------------|--------------------|-----------------|
| | (1000 Tsh) | (1000 Tsh) | (%)* |
| 1998 | 692.3 | n.a. | n.a. |
| 1999 | 419.8 | n.a. | n.a. |
| 2000 | 683.0 | 25.0 | 3.7 |
| 2001 | 590.8 | 456.6 | 77.3 |

出所: Temeke District Fisheries Office

注: Only Fisheries License

バガモヨ県

| Year | Weight (ton) | Value (1000 Tsh) | Fishing Levy (1000 Tsh) | Collection rate (%) | License (1000 Tsh) |
|------|--------------|---------------------|-------------------------|---------------------|--------------------|
| 1995 | 4,181.3 | 20,294.2 | 2,900 | 56 | 1,300 |
| 1996 | 3,071.0 | 14,614.2 | 3,700 | 60 | 1,500 |
| 1997 | 1,734.3 | 13,420.2 | 4,500 | 54 | 1,800 |
| 1998 | 2,974.3 | 14,614.2 | 5,000 | 90 | 2,000 |
| 1999 | 1,415.8 | 20,294.2 | 5,900 | 90 | 2,400 |
| 2000 | 1,214.6 | 18,765.6 | 6,000 | 95 | 3,000 |
| | | | (7,857.5) | | (2,349,0) |

出所: Bagamoyo District Fisheries Officer

マフィア県

| Year | Weight (ton) | Value | Fishing Levy (1000 Tsh) | Collection rate | License (1000 Tsh) |
|------|--------------|-------|-------------------------|-----------------|--------------------|
| 1995 | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1996 | n.a. | n.a. | 3,601.3 | n.a. | 656.8 |
| 1997 | n.a. | n.a. | 2,719.5 | n.a. | 1,763.4 |
| 1998 | n.a. | n.a. | 4,948.5 | n.a. | 4,225.0 |
| 1999 | n.a. | n.a. | 5,271.8 | n.a. | 2,724.4 |

出所: Mafia District Fisheries Officer

リンディ県

| Year | Weight Value | | Fishing Levy | Collection rate | License |
|-------|--------------|------------|--------------|-----------------|------------|
| 1 Cai | (ton) | (1000 Tsh) | (1000 Tsh)* | (%) | (1000 Tsh) |
| 1995 | 2,000 | 300,000 | 373.2 | n.a. | n.a. |
| 1996 | 2,190 | 350,000 | 508.9 | n.a. | n.a. |
| 1997 | 3,903.6 | 702,648 | 859.5 | n.a. | n.a. |
| 1998 | 4,200 | 840,000 | 1,070 | n.a. | n.a. |
| 1999 | 3,903 | 819,630 | 1,465 | n.a. | n.a. |
| 2000 | 4,500 | 1,125,000 | 1,530.9 | n.a. | n.a. |

出所: Lindi District Fisheries Officer 注: including product cess and license fees

ブコバ県 (Urban のみ)

| Year | Year Weight (ton) | | Fishing Levy (1000 Tsh) | Collection rate | License (1000 Tsh) |
|------|-------------------|---------|-------------------------|-----------------|-----------------------|
| 1995 | 182.9 | 18,290 | n.a. | n.a. | n.a. |
| 1996 | 286.1 | 28,510 | n.a. | n.a. | n.a. |
| 1997 | 239.1 | 23,910 | n.a. | n.a. | n.a. |
| 1998 | 284.2 | 85,260 | 5,600.0 | n.a. | 362.3 |
| 1999 | 326.1 | 114,135 | 2,982.0 | n.a. | 592,3 |
| 2000 | 1,909.2 | 671,210 | 5,910.6 | n.a. | 630,2 |

出所: Bukoba District Fisheries Officer

付表 30 ダルエスサラーム魚市場における水揚税徴収率

単位: Tsh.

| | 1月 | 2月 |
|------------------|------------|------------|
| 漁獲高の 5% 徴収料金 | 11,246,695 | 6,551,630 |
| 水揚げから推計されるべき徴収料金 | 54,070,649 | 86,205,658 |
| 徴収率 | 20.8% | 7.6% |

出所:ダルエスサラーム区役所

付表1-31 タンザニアにおける水産部門プロジェクト

海面漁業におけるプロジェクト

| 分野 | 名称 | 期間 | ドナー |
|-------------|--|-------------------------------------|---|
| 1 資源管理 | Tanga Coastal Zone Conserva | ion Phase I: 1991 - | Irish Aid / IUCN |
| | Development Programme (TC | ZCP) 1993 Phase II: 199 | 94 |
| | | - 1998 Phase III : | |
| | | | し、海岸資源利用の選択を多様化することにより、タンガ州の海岸村 |
| | | | - ズーは例示・案内段階であり、フェーズ II は実証段階であった。 |
| | ンボースIIIの目的 いなものとする | | D他の利害関係者により海岸および海洋資源の管理を改善された協力 |
| - TIII 1 ++ | | <u> </u> | |
| 2 環境 | Kunduchi Integrated Coastal A | | |
| | Management Project (KICAM | | 6.2.の神服に取り似れ楽歌が囲びされた。同党ルネれた原作神服は法 |
| | | - 、海岸の課題を同定化し、これ 侵食、ダイナマイト漁業が含む。 | れらの課題に取り組む戦略が開発された。同定化された優先課題は海 まれる。 |
| 3 環境 | Mafia Island Marine Park (MI | MP) 1994 - 2000 | NORAD / WWF |
| | MIMPは、WWFの |)技術支援およびNORADの資金 | 援助のもとに、水産局により運営された。最初の作業は公園域内に |
| | | | ことであった。これに続いて、MIMPは、公園管理計画を改定し、公 客と密接に行動することを計画した。 |
| 4 村落開発 | Rural Integrated Project Suppo | ort (RIPS) Phase I: 1988- | FINNIDA |
| | | 1993 Phase II: 199 | 94 |
| | | - 1998 Phase III : | |
| | | | 協力であり、リンディ州およびムトワラ州における村落開発を支援し |
| | 脚 ている。全体目标 壁 は1)公共サービス | 関は、これらの地域の住民の生活 | 舌を満足のいく維持可能なものに改善することにある。主要構成要素 |
| | 愛 は1)公共サービス | 開発、2)行政開発、3)小企業開 | 光、4) |
| ~ T==1± | | B : 27 1000 | WORLD |
| 5 環境 | Rufiji Environment Managem | ent Project Phase II: 1998 - | NORAD 林地、湿地帯の「賢明な利用」により長期的な保全を促進すること |
| | | | - 体地、湿地帯の「真明な利用」により長期的な休宝を促進すること 主態機能が維持されて、更新可能な自然資源は維持可能なように利用 |
| | | | エ忠族能が維持されて、更新可能は自然負続は維持可能はよりに利用プロジェクト対象域はルフィジ県内の川の氾濫により生態系が影響を |
| | 単 受けるところ() | 『濫原およびデルタ)およびセ | コス禁猟区の下流部であり、特に重要ないくつかの高地の森林もまた |
| | 含まれている。 | | |
| 6 環境 | Integrated Coastal Manageme | nt for 1997 - 2002 | USAID / URI / TCMP |
| | Tanzania (ICM) | | |
| | | | D沿岸資源管理計画をもつタンザニア政府および効果的な沿岸管理体 |
| | 11 4 国党长上 | | 共同体の努力を支援することを目指している。その目標は次のとお |
| | | | 題に効果的に適用される意義あるICM政策を策定すること、2) 沿岸の 舌動を政府、実業および村落により定義・適用させること、3) 効果的 |
| | ングラス と | | 日勤を政府、关系のよび行者により足載・週用させること、の効果的 機構を適切にすること、4) 組織および人材のICMに関する能力を向上 |
| | させること、5) 1 | せ界的なICMによりタンザニアの | D沿岸管理の経験を特徴づけること、およびそれを世界的なICMに貢 |
| | 献させること。 | | |
| 7 能力向上 | Capacity Building in Planning | and Co- 2001 - 2002 | FAO |
| | management of Tanzanian Pra | wn Fishery | |
| | タンザニアの企業 | 的および零細エビ漁業はこの数 | 数年間深刻な管理上の問題に直面している。DOF(含TAFIRI)は、生 |
| | 態・経済的および | が組織的な足掛りを堅実にするが | ための緊急支援を必要としており、FAOは本プロジェクトを提唱し |
| | | | 管理体制を効果的に毎年作動させるために、DOF、企業的漁業会社、 |
| | | | 壬を発展させることである。プロジェクトの即時目的は、企業的漁業 |
| | あるひ冬細温業/ | ら選定された2箇所のバイロッ | ト地域をカバーする最初の年次エビ漁業管理計画を設定し、実施す |
| | ることにある。 | | |
| 8 市場 | Project for Construction of Int | egrated Fish 1999-2001 | Japan |
| 2 :1: W | Market Complex, DSM | | <u>r</u> |
| | | 十画を策定するに際しては、 収 | 入形成、貧困削減といった国家開発計画の戦略を相当考慮に入れた。 |
| | | | た現在の問題および要望を考慮すると、水産物流通および鮮魚の損耗 |
| | 脚 の除去を改善すべ | 、きである。これらの目的で、タ | 魚市場はパンダ・ピーチに次の施設・機材を附設して建設するものとし |
| | レスタイプ としゅう とうしゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう しゅう | 2) 護岸、3) せり会場、4) 小売 | 市場、5) 魚荷揃え場、6) 魚フライ加工場、7) 野菜・雑貨売場、8) 燃 |
| | 料小売場、9) カ | 7ェテリア、10) 水供給および衛 | 5生施設、11) 電力供給施設、12) 道路および駐車場、13) その他関連 |
| | 施設(公共便所、 | ごみ捨場等) | · · · · · · · · · · · · · · · · · · · |
| | | | |

ヴィクトリア湖におけるプロジェクト

| 分野 | 名称 | 期間・ドナー |
|------------------------|----------------------|---|
| 1 水産開発お よびクレ ジット | Integrated in Kagera | Development of Fishing Villages 1991 -1994 FAO / UNDP FAO / Netherlands 1995 - 1999 |
| | 競 | 本プロジェクトの主要目標は次のとおり。1) 水産回転資金(FRCF)および国家銀行機関である組合・村落開発銀行(CRDB)と共同して運営される現金販売機能を通じて、漁業助成へのアクセスを改善すること。2) 漁村の収入獲得機会を増大させること。3) 代替漁業技術を試すこと。4) 魚の販売を増加させること。5) DOFの行政業務を支援すること、特にカゲラ州における水産資源の管理・保全に関する業務を支援すること。6) 漁村 / 農村への支援を開発あるいは拡張することに興味のある第三者に対して仲介者・促進者となること。なお、1995年より本プロジェクトは、District Rural Development Programme (DRDP)、の一部としてオランダに引き継がれた。 |
| 2 資源管理 | Lake Victo | oria Fisheries Research Project Phase II: 1989 - EU 1990 Phase II: 1995 - 2001 Phase III: |
| | カスタ | 本プロジェクトは次の5つの要素からなる。1) 水産の調査および管理に関するLVFO委員会への支援および科学的会合への支援を通じた組織強化。2) 資源評価(音響、トロール、刺網による調査、およびそれに関連した生態学的・統計的研究)。3) 栄養網。4) 基礎情報収集および漁獲後の研究(漁業の栄養物摂取および健康への影響を含めて)を通じた管理戦略の社会・経済的評価。5) 適当な村落構造およびパイロット村落管理の主導の評価を通じた参画過程の開発。 |
| 3 環境 | | oria Environment Management Phase I : 1997 - 2002 WB / GEF |
| | Project (L | , |
| | 競 | 本プロジェクトはケニヤ、タンザニア、ウガンダのヴィクトリア湖沿岸3国を共同参加国として含んでおり、湖の生態系の回復を目指している。全体目的は次を含む。1) 湖の便益の維持可能な利用を最大化すること(食物、雇用、所得、安全な水の支給、無疾病環境の維持)。2) 生物多様性および遺伝学上の資源を保全すること。3) 環境劣化を制御・反転させるために、国家的管理計画との調和を図ること。 |
| 4 人的資源開 発 | | Resource Development 1999 - 2005 Common-wealth Secretariat e (2000 - 2005) |
| | 機 | 人的資源開発(HRD)は、特定の仕事の目的を達成するのに必要な人々の育成を計画し、系統的に試行するものである。単に訓練の必要性を同定化するよりもむしろ枠組の中で、効率的な計画と運営の必要性が取り扱われる。これによりわかりやすく複合的な計画が保証される。 |
| 5 市場 | The Project | et for the Construction of Kirumba Planning: Applied in Requested to Japan |
| | Fish Mark | et Complex June, 2000 |
| | カード | 本プロジェクトは、以下を通じて、ムアンザの都市部住民への鮮魚・干魚の質・量を改善することを目指している。 1) 次記の支給によるキルンバにおける既存魚市場の活動の改善; 干魚・鮮魚の屋根付き取扱場、卸売市場、小売市場、魚加工場、製氷設備、貯氷庫等。2) 地域漁民が魚を安全に荷揚げ・積み降ろししたり、船を係留できるような小規模突堤の建設。3) レストラン、駐車場、水・燃料供給施設、格納庫、衛生施設といった関連施設を建設によるキルンバ魚市場の全体環境の改善。4) 車輛および船の支給により水産職員が全活動を監理・調整できるようにすること。 |
| 6 品質管理 | The Project | et for Construction of Fish Quality Planning: Applied in Requested to Japan |
| - nn2.m-± | | d Assurance center July, 2000 |
| | 競 | 不適切な水産物検査ならびに品質管理機構を改善するために、無償援助により、DSMに国営照会試験所の建設およびムトワラの試験所の向上が日本に要請されている。本プロジェクトはまた水産物流通のすべての段階において水産物取扱および衛生管理に関する訓練を行うこととしている。 |

タンガニーカ湖におけるプロジェクト

| 分野 | 名称 | 期間 ドナー |
|---------|-------------|---|
| 1 水産調査 | | ganyika Fisheries Research and 1972 - 1978 FAO/UNDP |
| | Developm | ient Project |
| | | 概略の目標は、以下の事項を通じて、漁獲および漁獲後のすべての局面を発展させることにある。1) 水産資源の評価 |
| | 瞅 | および恒久的監視体制の立案。2) 商業的に重要な魚種の生態学的特長について調査。3) 漁業規則の導入に関する勧 |
| | 藍 | 告。4) 改善された統計システム。5) 改善された漁法(企業的ならびに零細)。6) 改善された加工・流通システム。7 |
| | | 投資の可能性に関する助言の獲得。 |
| 2 水産開発 | Fisheries 1 | Development Project 1976 - ca. 1980 IDA |
| | | IDAは、タンガニーカ湖漁業センター(共同企業体)の設置に対して技術支援と施設を提供し、関連活動(村落漁業 |
| | 瞅 | 計画、湖内運送施設、流通および環境破壊の研究)を支援するためにクレジットを与える。魚受取所がキゴマに建設 |
| | 藍 | されたが、稼動することなく、現在は放棄されている。 |
| 3 クレジット | Integrated | Technical Assistance and Credit 1983 - 1993 FAO / Netherlands |
| | - | nal Fisheries |
| | | - 人は日標は、海見の袋とし口を使用物では悪により、海楽は立のは現底点をプロしょ。 ナイフルの海口のよび小準と |
| | | 全体目標は、漁具の輸入と回転信用勘定計画により、漁業生産の減退傾向をくいとめ、キゴマ州の漁民の生活水準を 改善することである。プロジェクト評価は、おおよその目的は満たされたが、不利な運営条件(不十分な通信、輸 |
| | 展 | 送)が主な制約であったと結論している。組織設立および普及活動強化の長期的効果を予定したというが、完全には |
| | 藍 | をプルエは同語とのフルと語画のといる。語画成立のよび自反角動強化の及類的効果をできるにというが、光主には 達成されていない。 |
| | | ZMC1VCVIGVI |
| 4 水産開発 | Inland Fis | hery Planning Development and 1989 - 2001 FAO/UNDP |
| | Managem | ent Project (IFIP) |
| | | 主要な内水面域において漁業資源の更に効果的かつ合理的な活用を促進することを目指す地域プロジェクトの1つ。 |
| | 瞅 | 土 大 |
| | 藍 | んでいる。国家部門の概観および特別な漁業の状態の現地調査を多く含む。 |
| 5 水産調査 | Laka Tana | ganyika Research Project (LTR) 1992 - 1999 FINNIDA / FAO |
| 3 小注则且 | Lake Tang | ganyika Research Project (LTK) 1992 - 1999 FiliNidA / PAO |
| | | LTRの目的は、湖の生態学的生産および漁業の潜在力を調べること、ならびに現在および将来の人類の福祉および生 |
| | 瞅 | 態学的保全の必要性に資する漁業資源の最適な管理のための様式を地域規模で考案することである。LTR調査計画の |
| | 藍 | 主な要素は、流体力学、湖沼学、魚類・動物プランクトン生態学、遠隔探査、魚類発生学、法制度研究、社会経済学 |
| | | を含んでいる。 |
| 6 生物多様性 | Lake Tang | ganyika Biodiversity Project 1995 - 2000 UNDP/GEF |
| | | 主な目的は、4沿岸国を含んだ地域的基礎環境管理計画を作成することにあり、これを通じて環境汚染は制御され、 |
| | Int | 湖の生物多様性は維持されることとなる。プロジェクトは次の5つの要素からなる。1) 生物多様性 - 種、種群の調 |
| | 競 | 査、および絶滅の危機にあるものを決めること。2) 環境汚染 - 汚染源、影響、可能な防止方法の同定。3) 沈降分離 - |
| | 整 | 影響の監視、および可能な改良方法の評価。4) 社会経済。5) 環境教育。最後の2つは、漁業および農業の実践、可能 |
| | | な保存水域とその局地的接近可能性の評価、法的課題を含む。 |
| 7 水産開発 | | ganyika Regional Fisheries 2002 - 2006 AfDB/FAO |
| | Programm | ne (TREFIP) |
| | | TREFIPの全体目的は、 ' Framework Fisheries Management Plan (FFMP)'およびその基礎をなす手順を完全に実施するこ |
| | HН | とである。TREFIPは、地域漁村住民との協力関係を樹立することを主に強調しているが、これは第1に漁業産業自体 |
| | 競 | の効率と管理の条件を直接に改善するためであり、第2に、村落レベルにおいて、一般に不足または不十分となって |
| | | いる施設および設備を改善するためである。 |

ニアサ湖におけるプロジェクト

| 分野 | 名称 | |
|--------------|------------|---|
| 1 生物多様性 / 保全 | | wi Project 1995 - 1999 WB / SADC / GEF |
| | 离 | マラウィ、モザンビーク、タンザニアの3カ国にわたるGEFプロジェクトであり、生物多様性の保全ならびに湖およびその集水池の維持可能な利用に関する単一化された戦略を開発することを目指している。プロジェクトの主な科学的側面は、系統(分類学)的な湖の生態学および保全/公園計画である。社会経済的および開発的側面は、村民の自覚の形成、試験所建設、保護区域に対する戦略の準備である。 |
| 2 資源管理 | Lake Nyas | ra Trans-frontier Natural Planning (1999-) PPF / WWF |
| | Resources | Management Area Programme |
| | 競 | 1999年の初期に'Trans-frontier Natural Resources Management Area (TFNRMA)'の概念が導入され、ニアサ湖におけるTFNRMAの主な目標は次のとおりである。1) 観光開発により地域村落に仕事を創設して貧困を緩和すること。2) 盆地の生態学的多様性を保全すること。 |
| 3 保全 | Lake Mala | wi/ Nyasa/ Nyasa Ecoregion WWF |
| | Based Cor | servation programme |
| | 競聯 | 本プロジェクトの目的は、保全に対して生態領域を基礎としたアプローチを開発することであり、ここに生物多様性の目標は'生態学的保全計画'にあるといえるが、湖の保全・管理への複合的アプローチを促進する努力を要する。 |
| 4 資源評価 | Pelagic Fi | sh Resource Assessment Project 1987 - 1994 UK / SADC |
| | on Lake M | Ialawi / Niassa |
| | 競 | 本プロジェクトの目的は次のとおり。1) 湖における浮魚(沖合)資源の大きさ、分布、季節性およびその構造と生態を評価すること。2) 水産管理に資するために、浮魚資源を持続させている栄養基盤およびその発生量、分布、変化性に影響している要因を調べること。3) 浮魚魚種を目標とした新漁業の潜在的維持可能漁獲量を定めること。4) 浮魚漁業の利用および持続可能な管理のために適宜かつ経済的に可変な戦略を決定すること。 |

その他の地域

| /\ m\ | A71h | | #088 | 10-4- | |
|--------|------------|--|--|-------------------------------------|---|
| 分野 | 名称 | | 期間 | ドナー | |
| 1 水産投資 | Zanzibar I | Fisheries Investment Project | 1994 - 1999 | FAO / AfDB | |
| | 离 | せ、生産者、加工業者、流 に沿って海産物の品質を改 レジットは銀行制度を通じ | 通業者がよりよい価 善することを特に目 て主として長期貸付 産への投資。2) 水産 | 格と高収入を実現で 指している。本プロ による財務的資本技 | している。また、地域漁民部門の付加価値を増加さ できるようにするために、漁獲および漁獲後の連鎖 ロジェクトは主に民間営業者向けであり、一連のク 投資に対し利用可能である。可能なプロジェクト要 よび流通への投資。3)水産物投入産業への投資。4) |
| | The Maste | er Plan Study on Fisheries | 2001-2002 | Japan | |
| ラン | Developm | ent in the United Republic of | | | |
| | 殿 | 本調査の目的は次のとおり 安定収入を増加させること | ; 漁業資源をさらに らこと。2) 本調査の9 | こ効果的に利用する。 実施を通じて水産局 | プラン(目標期間:10年間)を策定すること; 漁民のこと; 漁民のこと; 漁民組織および政府双方の能力を強化するおよびタンザニアのその他政府機関にマスタープ |

付表 32 ビクトリア湖における資源管理手法

| | 漁船数総量規制 | 加工工場生産規制 | 漁獲量規制 |
|------|--|---|--|
| 管理指標 | 漁船登録ライセンス | A. フィレー出荷量 B. 原魚入荷量 | 漁獲量 |
| 管理方法 | 水産局発給の漁船登録ライセンス数を制限する。 | A. 現状通りのインスペクターによる出荷量検査 B. インスペクターによる入荷時計量立ち会い | BMU 主導により、管轄漁船の 漁獲量を毎日計量し、管理す る。 |
| 長所 | 水産局による管理が容易。 漁船同士の過当競争を抑えら れる。 | A. 管理が容易。 工場側の高付加価値製品開発意欲の惹起。 B. 管理が容易。 買付・集荷過程での品質管理マインドの強化。 高歩留まり、高付加価値製品の生産。 | 漁獲量をダイレクトに管理することが出来る。 BMU に漁獲可能量を割り当てた場合、漁民のBMUメンバー化、すなわち組織化の強力な起爆剤となる。 |
| 短所 | 無登録船の横行が予想され、取締り強化の必要性が生じる。 一隻あたりの漁具数が増え、必ずしも正確に漁獲量が管理できる保証はない。 船大工に失職の恐れあり。 | 工場外流通分(零細加工含む)はカウントされないので、総漁獲量の管理は出来ない。 工場側はリジェクトや残滓を減らす努力をするので、これらに依存する零細加工業者に失職の恐れあり。 | 漁民組織に管理を委託するには現状で組織力が不十分。 BMU による漁獲データの水産局への迅速な収集体制がない。 BMU 割り当て漁獲を巡って熾烈な漁獲競争が起こる。 |

出所:本調査団による聞き取り調査

付表1-33 水産物の輸出量及び金額

| | | 1997 | | 13441-33 小屋 | :物の輸出量及ひ金管 1998 | 识 | | 1999 | |
|------------------------|--------------|-------------------|---------------|---------------|--------------------|---------------|---------------|-------------------|---------------|
| | Quantity | Value | 2 | Quantity | Value | e | Quantity | Valu | e |
| Product | kg | TShs. | US\$ | kg | TShs. | US\$ | kg | TShs. | US\$ |
| Prawns | 61,131.0 | 79,496,790.30 | 128,537.70 | 223,639.00 | 259,170,761.60 | 390,976.10 | 1,154,181.00 | 3,788,215,145.10 | 5,127,641.90 |
| Lobsters | 36,008.0 | 263,685,602.80 | 426,807.40 | 25,999.00 | 162,581,125.20 | 255,145.90 | 161,962.00 | 611,764,945.00 | 818,511.90 |
| Live Lobsters | | | | | | | | | |
| Crabs | 12,848.0 | 28,518,990.60 | 46,460.60 | 17,882.00 | 66,674,500.00 | 99,295.00 | 4,819.00 | 18,321,220.00 | 24,696.70 |
| Octopus | 638,046.0 | 1,029,216,002.50 | 168,584.40 | 595,783.00 | 702,011,119.20 | 1,055,637.10 | 574,522.00 | 977,816,816.80 | 1,357,380.60 |
| Squids | 12,523.0 | 152,064,190.80 | 250,738.00 | 12,567.00 | 20,256,972.80 | 30,493.90 | 35,005.00 | 74,583,797.20 | 107,571.70 |
| Sea shells | 183,172.0 | 83,592,295.00 | 324,979.10 | 154,893.00 | 19,856,620.80 | 29,859.10 | 250,006.00 | 64,212,429.30 | 85,538.80 |
| Beche de mer | 254,435.0 | 420,487,768.90 | 1,156,297.50 | 872,926.00 | 133,860,000.00 | 21,722.00 | 93,439.00 | 194,352,449.60 | 255,513.50 |
| Fish maws | | | | | | | 77,162.00 | 88,364,984.50 | 122,808.90 |
| Fish offals | 194,993.0 | 235,258,122.60 | 390,450.00 | 199,974.00 | 237,305,110.80 | 389,169.00 | 90,050.00 | 13,805,263.50 | 181,574.50 |
| Shark jaws | 650.0 | 3,389,316.00 | 5,525.00 | 254.00 | 2,841,983.30 | 4,273.60 | | | |
| Marine Fish fillet | 14,906.0 | 18,269,326.20 | 29,812.00 | 10,321.00 | 15,541,032.30 | 24,248.00 | | | |
| Dried Nile Perch | 143,477.0 | 65,036,318.40 | 107,662.90 | 12,288.00 | 211,061,705.40 | 331,307.80 | 402,509.00 | 91,442,209.10 | 128,454.30 |
| Dried sardins | 1,531,419.0 | 676,285,415.40 | 1,110,235.40 | 693,329.00 | 357,194,085.60 | 556,980.50 | 665,240.00 | 302,031,437.40 | 523,019.20 |
| Nile Perch fillet | 23,075,905.0 | 33,125,889,871.50 | 54,821,414.10 | 36,386,214.00 | 43,258,023,811.90 | 65,727,795.00 | 23,757,462.00 | 37,554,505,909.00 | 51,992,752.52 |
| Nile Perch jaws | 869,187.0 | 1,563,572,143.30 | 2,590,811.80 | 500,504.00 | 1,076,000,927.90 | 1,629,494.00 | | | |
| Nile Perch carcass | 530,472.0 | 253,481,895.30 | 411,276.30 | 456,080.00 | 50,318,799.80 | 78,209.30 | 156,300.00 | 19,167,692.30 | 25,159.80 |
| Nile Perch chips | 112,760.0 | 48,741,243.40 | 79,649.20 | | | | 384,250.00 | 68,932,604.30 | 95,986.00 |
| Nile Perch offals | | | | | | | 280,080.00 | 469,966,991.00 | 594,976.00 |
| Nile Perch belly flaps | 2,522,516.0 | 928,857,841.50 | 1,527,835.00 | 2,792,600.00 | 965,148,516.00 | 1,477,436.60 | | | |
| Shark belly flops | | | | | | | 715.00 | 5,519,354.50 | 7,705.00 |
| Nile Perch fish meal | 764,802.0 | 194.000.138.90 | 320,028.70 | 1,002,768.00 | 1,333,620,349.10 | 203,075.00 | | | |
| Fish powder | | | | | | | 766,266.00 | 124,412,379.90 | 170,809.50 |
| Nile Perch Oil | 55,020.0 | 3,066,225.00 | 5,032.50 | 66,200.00 | 4,308,956.70 | 6,620.00 | | | |
| Refrigerated fish | | | | | | | 74,814.00 | 59,002,500.00 | 86,338.30 |
| Fresh sardines | | | | | | | | | |
| Sea weeds | 1,085.0 | 997,409.70 | 1,615.50 | | | | | | |
| Sub-Total | 31,015,355.0 | 39,173,906,608.10 | 63,903,753.10 | 44,024,248.00 | 48,875,776,378.40 | 72,311,737.90 | 28,928,782.00 | 44,527,018,128.50 | 61,706,439.12 |
| Acquarium fish | 25536 Pieces | 93,699,613.00 | 308,595.60 | 22439 Pieces | 98,663,048.30 | 156,258.00 | 11822Pieces | 61,231,926.70 | 83,118.60 |
| Grand Total | | 39,267,606,221.10 | 64,212,348.70 | | 48,974,439,426.70 | 72,467,995.90 | | 44,558,250,055.20 | 61,789,557.72 |

付属資料

- 1. ケニア・ウガンダにおける漁民組織の活動事例
- 2. 個別プロジェクトの評価
- 3. 環境評価の手順及びその結果

付属資料1

ケニア・ウガンダにおける漁民組織の活動事例

漁村の貧困について本調査では、 漁民間(仲買・工場含)における収益のアンバランスな配分と 漁民の浪費行動による2点に原因を求めて聞取りを実施している。このうちウガンダでは、大型漁民や工場からの搾取という言葉が聞こえず、大半が漁民の行動に説明を求めているのが特徴。ケニアでは両者が貧困の原因として同様に問題視されている。

定量的数値はないが漁船・漁具の所有に関してケニア・ウガンダでは差が見られる。ウガンダでは大型漁民・投資家が 10-20 隻の漁船を所有し漁獲、自船魚の回収、工場への販売を行っている。魚具は投資家が独自に調達しており、工場や仲買は漁具・船外機のクレジット等は一般に行っていない。また漁船からの買付を主業務にする仲介業者がケニアに比べ多くない。一方ケニアでは、自国水域のみならずウガンダ等からも買付を行う必要があり、仲介業者・エージェントが発達している。彼らは魚の確保のため工場の協力を得て、船外機・漁具を漁民にクレジットで供給する関係ができている。

ケニア、ウガンダともに行政から、漁民組合育成の難しさが指摘されているが、その発達には 大きな差がある。ケニアでは一部の組合が組合員の漁獲を委託され、工場に販売するなど集団に よる価格交渉体制を持っており、また売上の一部を貯金するなど組織強化のための骨格が出来て いる。また組合は、水揚浜の整備についても加工工場・政府と一定の交渉能力を持つと判断され た。このような状況は調査に際しても、調査団が集会を依頼すれば組合委員など漁村の重要人物 が直ぐに集まる点などに組織の強さが伺える。一方、ウガンダでは組合はほとんど存在していな い状態である。タンザニアはむしろウガンダに近い状態か。

ケニア、キスムの漁民コミュニティーとの協議

- A. Wichlum/Bond District, Wichlum Fishermen Cooperative Society
- B. Liunda/Bond District, Centaral SAKWA Cooperative Society
- C. Uhanya/Bond District, Mr. Jack, Fish Agent
- D. Koginga Beach/Homabay District, Homabay Fishermen Cooperative Society, ZIWARI (womens group)

A. Wichlum/Bond District, Wichlum Fishermen Cooperative Society

Wichelum は Kisumu より約1時間半の距離。最も組織化が進んだ漁村の1つとして踏査。65年に水揚浜として登録され、70-80年代にかけて発達した漁村。漁船数は118隻、漁民数は450人。船主は漁業に従事せず漁民数に数えていない。内訳は下記のとおり。

別表 1-1 Wichelum 水揚浜における漁船及び漁民の概況

| (1)ナイルパーチ漁船 | 90 隻、内 20 隻が船外機を装備、漁民は船外機付きが 5 人/船、帆船が 3 人/船で計 310 人。 刺網:86 隻(動力船は全て刺網) 延縄:4 隻 |
|----------------|--|
| (2)オメナ (ダガー)漁船 | 21 隻全て無動力。船員は4人/船で計84人。 |
| (3)ティラピア漁船 | 7隻全て無動力。船員は3人/船で計21人。 |

出所:本調査団による聞き取り調査

特徴としては刺網の比率が非常に高いことがあげられるが、これらは漁民以外の投資によるものとのこと。

〔組合活動の概況〕

Wichlum Fishermen Cooperative Society は組合員数 896 人、資産として組合事務所、魚荷捌所、漁業監視事務所及び輸送トラック 1 台を保有する。組合員が上記漁民数より多いのは漁民でない船主が加わるため。下記は組合の組織であるが、基本的にこの構造は他の漁村の組合と同じである。

別表 1-2 Wichlum Fishermen Cooperative Society の組織概況

| Management Committee | 9 名(Chaiperson から Treasure までの 4 人を含む)。組合員の投票によって選出。 |
|----------------------|--|
| Chairperson | 1 名。Management Committee によって選出。 |
| Vice-chairperson | 同上 |
| Secretary | 同上 |
| Treasure | 同上 |
| Worker | 5 名。水揚魚の記録、販売作業。 |
| Supervisor | 2 名。監査を担当。組合からは独立した組織。 |

出所:本調査団による聞き取り調査

組合の最大の活動は、組合員の漁獲物(ナイルパーチ)を一括して、委託販売することにある。 組合は委託料金として販売価格の10%を徴収し、組合の活動資金としている。ほとんどの漁民が 組合に販売を委託していることから、組合は極めて高い効率で資金を確保している。徴収された 10%の委託料金は、正確には5%が組合の資金となり、残り5%は組合員の個人口座に貯金される。 後者がクレジットとして機能した場合は、SACCOS (Saving and Credit Coop. Society)として機能す るが、現在はそこまでの機能は持たない。組合により漁民は加工会社と値段交渉力を持ち(ただ しケニアにおける魚価高は組合の交渉力のみではなく、加工会社間の高い競争力もあると考えら れる。むしろ高い競争力が値段交渉を可能としていると考えるべきか)、委託料は組合の安定した 資金を確保する手段として理想的な形態を持っている。

B. Liunda/Bond District, Centaral SAKWA Cooperative Society

Liunda は人口約 2,000 人の漁村。漁船数 55 隻、漁民約 200 人の規模。5 つの加工工場からトラックで買付に来るが回収には 2-4 日を要している。1980 年に水産局により魚荷捌所が建設され、水産局の事務所が併設される。上述 Wichlum と異なり延縄漁法が中心。これは 1 式 Ksh.10,000 (Tsh.114,000)と刺網 Ksh.250,000 (Tsh.2,850,000; 100set)より投資が少なくて済むためで、大型の投資家が漁村にいないことによる。平均的な漁獲漁は延縄で 40kg 程度とのことであり、調査時では大半が 20-50kg を水揚していた。餌は Kisumu 近郊の灌漑用水から捕獲される Clarias で、1 尾 Ksh.4 で 1 回あたり 2-300 尾を購入している。

別表 1-3 Liunda 漁村における漁船及び漁民の概況

| (1)ナイルパーチ漁船 | 漁民数 120 人。漁船は全て無動力。 刺網:4 隻 延縄:36 隻 |
|----------------------|--|
| (2)オメナ (ダガー)漁船 | 10 隻。漁民数 40 人。 |
| (3)地引網 (ナイルパーチ) 対象 | 5 隻。漁民数 40 人。 |
| (3)ティラピア漁船 | 無 |

出所:本調査団による聞き取り調査

漁村の上げる課題としては、Liunda では延縄が多いことから特に、流網(漁船と流網が同時に移動)による延縄の破壊・紛失がもっとも強く上げられている。このような紛失に対し加工会社では釣針の支援を受けることもあるが、漁船・船外機、刺網等の支援はこれまで申し込まれたことはない。その他課題・希望としては、貯蔵施設、動力船、診療所、カバの増加による被害(攻撃を受ける)が上げられた。貯蔵に付いては雨期のアクセスが困難になることから、ナイルパー

チの価格が Ksh.10-15/kg にまで下がることを理由に挙げているが、輸送船による近隣の集荷場への搬送と集荷場における組合との協力を検討すべきであろう。女性に対して質問した場合でも回答は上記同様である。漁師が酒で金を使って、家計に金を入れないことは認めたが、これを改善する意志は強く見えない。もしクレジットにアクセスできたらという問いには、学費、貯金、将来の投資に3分して使うとの堅実な回答。集会後、漁師から大盤振る舞いを受ける。

[漁業組合 / Beach Leadership Committee]

組合の目的、構成は基本的に Wichlum に同じ。ただし収入不足から委員への手当ては現在未払いの状態。会員数は 98 人 (Liunda のみでなく周辺漁村の支所含む) であるが、大半は船主。これは魚の委託販売を活動の主目的にしていること、会費は船主が支払うシステムであることが原因である。このため組合は船主の利益団体となっており、船子を含む漁民全般の社会福祉向上を図る組織の構造とはなっていない。Beach Leadership Committee の活動も Wichlum に同様。9 人の委員には 2 名の女性が含まれている。

組合は魚販売の委託費を収入にしている以上、漁船数が Wichlum の半分の規模である Liunda では活動の制限は当然である。組合の機能的な活動には最低限の取扱量が必要であり、組合の存在は水揚浜の規模に係わる。小規模の水揚浜が分散している地域では、魚を集荷し一定規模の市場とそこに組合を整備する戦略を検討すべきであろう。

C. Uhanya/Bond District, Mr. Jack, Fish Agent

同氏は 6 隻の集荷船を用い、ウガンダ水域を含め漁民から買付を行うと同じに、8 隻のナイルパーチ刺網漁船を保有し漁獲を行う。懸案のエージェントによる漁民への漁具の貸し付けについては、以前は行っていたが、現在は行っていないとの回答。これには漁民が漁具を貸し付けても、漁獲物を横流ししたり、漁具と共に逃げてしまったりで、投資が回収できないことを理由に上げている(Ksh.1.2 百万が未回収)。同様の話しは工場側からも聞かれており、ケニアでは漁具の貸し付けによる漁民の囲込みは機能しなくなっているのかもしれない。ケニアでは狭い水域に17もの工場が集中しており、高い競争が漁民に有利に働いている環境にあるとも考えられる。またケニアには島が少なくエージェントの系列によるキャンプが作りにくい環境も影響していると考えられる。刺網の価格は Ksh.2,500 (Tsh.28,500)/set で通常漁船当たり 80-100 set を装備している。

D. Koginga/Homabay District, Homabay Fishermen Cooperative Society and ZIWARI (women group)

Homabay は Kisumu から南西へ車で 2 時間半。漁船数は合計 28 隻。ティラピア漁船が 12 隻、ナイルパーチ刺網 8 隻、オメナ (Dagaa) 漁船 8 隻の構成。また外部から延縄漁船 2 隻が水揚を行う。漁民組織としては Homabay Fishermen Cooperative Society が存在するものの活動的ではなく、漁獲物の販売は個々の漁民 (船主) に委ねられている。その他の漁村同様 Beach Leader Committee (12 委員) も存在するが、主に漁民間の問題調停及び社会環境改善に対しケースバイケースで対応がなされている。

組合組織の弱体さ、比較的小さな漁村規模、Kisumu からの距離等が影響し、7月14日のナイルパーチ浜値は Ksh.65 と、Wichlm の Ksh.78 と比べ約2割も低い価格となっている。この結果、浜で買付を行うエージェントは、工場価格 Ksh.85 との間に Ksh.20/kg のマージンを得ている。ナイルパーチ漁業のスケジュールは1500時に出漁、刺網を設置し洋上で待機した後、取上げ1100時帰港。エージェントもしくは工場の回収は一般に1600時までで、これに間に合わない水揚は1昼

夜常温に曝されることになり、価格低下の原因となっている。特に雨期に関しては、エージェントが来ない日もあり水揚地における貯蔵機能の整備が最大の課題として要望されている。しかし同規模の水揚地では整備の効率、エージェントもしくは工場の集荷を促すには規模が小さく、今後は周辺地域との協調により集荷センターの開発を検討する必要があると考えられる。

ZIWARI は92年に設立された女性グループ。当初は女性グループでの購買事業を目的に毎週集会時に Ksh.25 ずつ会費を徴収し資金を作り出した。その後会費は Ksh.50、100(94年)と増加し、基金の用途も夫が死亡したときの資金的支援や子供の教育費など多様化している。98年には LVEMP のマイクロプロジェクトが承認され、水揚地にトイレ(男女別各トイレ2、シャワールーム1)給水施設を建設し(合計 Ksh.850,000=\$10,897は標準的な草の根無償の 1/5の規模、草の根無償も複数ヶ所のパッケージとして対応しなければこの規模は対応できないか)、使用料金(トイレ Ksh.5、水 Ksh.2/20L)を新たにグループの運営費として活用している。またグループでは、30人の有志から週 Ksh.150 ずつ資金を募り 6mの漁船を建造(Ksh.120,000)し、漁民に貸し付けたが、漁民が漁獲物を横流しするなど、女性の漁業に関する知識の不足、直接乗船できない不利を克服できず失敗に終わっている。会員数は設立当初が25人、その後30人まで増加したが、現在は15人に低下している。20-30人の規模では購買活動にもスケールメリットが発揮しにくく、会員の意欲低下が原因と思われる。

別表 1-4 ホマベイ県 (Homabay District) における水産量の推移 1997-2000

| Species | 1997 (r | nt, Ksh.) | 1998 (r | nt, Ksh.) | 1999 (r | nt, Ksh.) | 2000 (1 | mt, Ksh.) |
|------------|---------|------------|---------|------------|---------|-----------|---------|------------|
| Nile perch | 127,909 | 5,391,765 | 219,282 | 7,880,263 | 13,952 | 544,522 | 158,587 | 6,871,721 |
| Omena | 122,595 | 2,981,015 | 141,316 | 3,700,387 | 4,965 | 99,300 | 83,058 | 1,579,160 |
| Tilapia | 73,918 | 3,752,475 | 198,677 | 12,479,110 | 26,851 | 1,422,689 | 245,256 | 11,544,604 |
| Others | | | | | | | | |
| Total | 474,090 | 17,178,175 | 756,136 | 32,142,843 | 77,001 | 3,384,809 | 668,554 | 25,253,272 |

出所: Homabay District Fisheries Office

付属資料2

個別プログラムの評価

1. 評価の手順

個別プログラムの評価に当たっては、以下の手順で行う。

主な経済便益と受益者の特定

経済的プログラムと社会的プログラムの峻別

経済的プログラムの便益の定量化

経済的プログラムのコストの経済価格への変換

経済的プログラムの経済的内部収益率の算定(参考値)

特に採算性の求められるプログラムの特定

財務的プログラムの財務的内部収益率の算定(参考値)

1.2 優先プログラムの便益とプログラムの特性

現在提案されている優先プログラムの便益とプログラムの特性は、以下のように考えられる。

別表 2-1 優先プログラムの便益とプログラムの特性

| 地域 | 優先プログラム | 主な便益 | 受益者 | プログラムの種類 | 経済評価 |
|----------|-------------------------------|-----------------------------------|----------------------|----------|------|
| 沿岸 | 沿岸漁業小規模漁民能力強化プログラム | -漁獲量の増大 -品質向上 -組合強化 | 漁民 流通業者 | 経済 | 0 |
| 7474 | ダルエスサラーム漁業基盤改善プロ グラム | -環境改善 | 漁民 流通業者 DSM 住民 | 経済/社会 | 0 |
| | ビクトリア湖小規模漁民能力強 化プログラム | -ニゲジ訓練学校の組 織強化 | 水産局職員 漁民 | 社会 | × |
| ビクトリア湖 | ピクトリア湖水産物流通改善プロ ク゚ラム | -就労日数の増加 -流通収の削減 -資源の効率的な利用 | 流通業者 | 経済 | 0 |
| | ビクトリア湖水揚げ地整備プログ ラム | -組合強化 | 漁民 | 経済/社会 | 0 |
| タンガニーカ湖 | タンカ゛ニーカ湖タ゛カ゛ー漁業・加工開 発プログラム | -漁獲量の増大 -品質向上 | 漁民 流通業者 | 経済 | 0 |
| ニャサ湖 | ニャサ湖漁業普及強化プログラム | -環境改善 | タンザニア国民 | 社会 | × |
| | 漁業金融支援プログラム | -漁民の能力強化 -MCI の能力強化 | 漁民 | 経済 | 0 |
| 全国 | 水産情報改善プログラム | -管理能力の強化 | 水産局職員 | 社会 | × |
| 土国 | 水産物輸出促進プログラム | -水産物輸出にむけて の能力強化 | 水産局職員 タンザニア国民 | 社会 | × |
| | 養殖普及実施可能性調査プロ グラム | -水産物の安定的な国 内供給確保 | 地域住民 | 社会 | × |
| | 水産マスタープラン実施のための訓練プログラム | -水産マスタープラン実施に むけての能力強化 | 水産局職員 タンザ ニア国民 | 社会 | × |
| | 水産資源共同管理能力強化プログラム | | | | |
| | 漁村貧困削減プログラム | | | | |
| | 水産訓練施設改善プログラム | | | | |

1.3 分析結果

沿岸漁業小規模漁民能力強化プログラムの経済・財務評価

沿岸漁業小規模漁民能力強化プログラムは、フェーズ1では、沿岸中部(マフィア・バガモヨ)の漁業協同組合・漁民組織強化、若手漁民への実地訓練、流通の改善強化を進めることにより、漁獲量の増大と、漁民の所得増大を図るものである。フェーズ2では、フェーズ1の経験を沿岸南部地域に拡大し、同様の効果を期待するものである。

沿岸漁業のタンザニア漁業に占めるウエイトからみると、少なくとも20%の便益が期待できる。

- 漁獲量増大: US\$ 24,785,100 x 0.2 = US\$ 4,957,020
- 所得增大: US\$ 206.621 x 0.2 = US\$ 41.324

計 US\$ 4,998,344

これに対し、経済価格に換算した費用は、3,021,948ドルと算定される。

しかし、別表に見るように、財務的には余り多くの利益を期待できない。マイクロクレジットを 期待しているが、この利益率では返済に 60 年以上必要となる。

別表 2-2 沿岸漁業小規模漁民能力強化プログラムの財務(2012年)

Unit: US\$

| | 収入 | 支出 | 収支 |
|-------|--------|--------|-------|
| DSM | 41,096 | 39,384 | 1,712 |
| Mafia | 14,840 | 13,356 | 1,484 |
| South | 14,840 | 13,392 | 1,448 |

注: South については、Mafia と同額の収入を想定した。支出については、ダルエスサラームと Mafia 計の収支比率を用いた。

ダルエスサラーム漁業基盤改善プログラムの経済評価

ダルエスサラーム漁業基盤改善プログラムは魚市場拡充コンポーネントとキブコニ・フロント 漁船係留地改善コンポーネントから成り立つ。

魚市場拡充コンポーネントは、新マーケットの機能の補完と強化及び都市計画見地に立脚したプログラムの推進を目的としており、環境要素の強いプログラムとなっている。しかし、新市場の機能を補強・強化する製氷・貯蔵施設を含んであり、品質の向上、安全な水産物の国民への供給という経済便益を期待することができる。この便益の算定は非常に困難であるが、別表に見るように製氷・貯蔵施設については、約342,500ドル/年の需要を想定することができ、また500人を超える加工・流通業者の所得改善にも寄与すると思われる。

一方、キブコニ・フロント漁船係留地改善コンポーネントにおいても、漁民の作業環境改善と景観の改善が期待できる。漁船の利用料としては、約 6,400 ドル/年を想定することができる。

これに対し、経済価格に変換したプログラム費用は、約 3.2 百万ドルと定量化可能な便益を大幅に上回っている。しかし、ダルエスサラームの中心地の環境・景観改善の効果は計り知れないものがあり、その後の商業活性化などの基盤整備として、その重要性は大きい。

別表 2-3 ダルエスサラーム漁業基盤改善プログラムの財務(2012年)

Unit: US\$

| | 収入 | 支出 | 収支 |
|------------------|---------|---------|---------|
| 魚市場拡充 | 348,100 | 123,032 | 225,068 |
| キブコニ・フロント漁船係留地改善 | 6,376 | 5,556 | 820 |
| 合計 | 354,476 | 128,588 | 225,888 |

注:魚市場の収入・支出の大半は製氷・貯蔵施設である。収入については、水揚地整備プログラムのニャムカジの氷販売額を日量 20 トンに膨らませた。一方、支出については、電気代と修繕費・減価償却費(機材費の15%)を想定した。その他の、収入・支出は現在建設された新市場の計画収支の10%と想定した。

ビクトリア湖水産物流通改善プログラムの経済評価

ビクトリア湖水産物流通改善プログラムはキルンバ市場とナイルパーチ残さい処理の 2 つのコンポーネントからなりたっている。キルンバ市場は、操業日数の増加とロスの減少により 12%の取扱量の増加が期待できる。その価値は約 718,000 ドルと見込まれる。しかし、市場建設工事費が高く、別表のように財務的には MWADESO の資金だけでは成り立たない。一方、ナイルパーチ残さい処理については、新たにムソマにおいて、日量 30 トンの処理が可能となり、便益に計上した年間 667,800 ドルの価値が期待できる。また、財務的には十分にプロフィタブルといえる。

別表 2-4 ビクトリア湖水産物流通改善プログラムの財務

Unit: US\$

| | 収入 | 支出 | 収支 |
|-------------|-----------|-----------|----------|
| キルンバ市場 | 28,669 | 223,155 | -194,486 |
| ナイルパーチ残さい処理 | 2,231,735 | 1,572,109 | 659,627 |
| 合計 | 2,260,404 | 1,795,264 | 465,141 |

注: キルンバ市場の収入は 2001 年の余剰推計額の 12%増し。支出は建物メンテナンス (工事費の 5%) のみ。ナイルパーチ残さい処理の収入は 3 工場の処理量計を 90 トンとし、単価 65 シリング/kg をかけて算定。支出については収入の 70%の製造原価に建物メンテナンス(工事費の 5%) を足したものである。

ビクトリア湖水揚げ地整備プログラムの経済評価

ビクトリア湖水揚げ地整備プログラムは、衛生的観点から水揚作業の効率化をはかるものである。この便益としては、品質向上による外貨獲得、漁業組合設立による漁民の所得向上といった便益をもたらすが、計量化困難である。

財務的には別表のように十分にプロフィタブルといえる。この余剰分が組合員に還元されるとすれば、の所得増加が期待できる。

別表 2-5 ビクトリア湖水揚げ地整備プログラムの財務

Unit: US\$

| | | | сии. СБф |
|---------|---------|---------|----------|
| | 収入 | 支出 | 収支 |
| 3 サイト合計 | 424,705 | 142,227 | 282,479 |

注:支出は、運営経費に建物メンテナンス (工事費の 5%) と機材メンテナンス (機材費の 10%) を足したものである。

タンガニーカ湖ダガー漁業・加工開発プログラムの経済評価

タンガニーカ湖ダガー漁業・加工開発プログラムは、国民の重要な蛋白源であるダガーの生産

向上及び収穫後ロスの減少を目的とし、後者の便益としては、約4百万ドル/年が期待されている。 これに対して、経済価格に変換された費用は約644,400ドルにすぎない。これは本プログラムが 調査プログラムで、将来本格的なプログラムに発展する可能性を秘めているといえよう。

なお、調査プログラムで整備される加工作業場は、別表のようにキゴマ県が独自財源の 3%を県水産開発基金として助成すれば、持続的に運営可能である。

別表 2-6 タンガニーカ湖ダガー漁業・加工開発プログラムの財務(2012年)

Unit: US\$

| | 収入 | 支出 | 収支 |
|---------------------|--------|-------|-------|
| タンガニーカ湖ダガー漁業開発プログラム | 11,076 | 6,854 | 4,221 |

注:支出は建物メンテナンス(工事費の5%)と機材メンテナンス(機材費の10%)の合計である。

漁業金融支援プログラムの経済評価

漁業金融支援プログラムは、漁民が船外機や漁具などを調達できるクレジットスキームを確立することを目的としている。その意味では、漁獲増大や漁民の所得増大に効果あるとされている。しかし、漁民が借入返済可能な経営を遂行できなければ、逆に借金地獄におちる危険性を有するものである。このことは、当然のこととして、漁業組合強化を必然たらしめる。別表にみるように、想定される組合の利益率とNGO 依存の回収では、脆弱な県の負担が増大する。この事態を回避するためには、

- 漁民自身が経営改善努力をすること
- それを可能とする市場インフラ整備をおこなうこと
- 組合および県水産職員が的確な市場情報と経営技術を漁民に提供すること

が必要である。いわば、本マスタープランが相乗効果をもたらすことが、重要である。

別表 2-7 漁業金融支援プログラムの財務(2012年)

Unit: US\$

| | 収入 | 支出 | 収支 |
|-------------|--------|---------|----------|
| 漁業金融支援プログラム | 17,532 | 160,000 | -142,468 |

注:収入は県独自財源の 1%とダルエスサラーム漁業組合、キゴマ漁業組合の余剰金の 85%を想定。

支出は金利補助(基金の 5%/year)と NGO 管理委託費(基金の 35%/year)

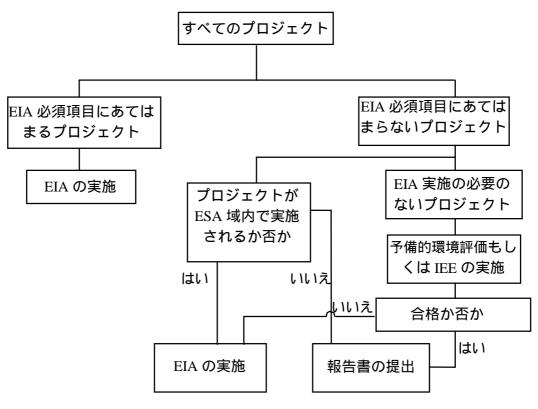
もし、漁民が金利補助を必要とせず、県ならびに組合が収入を3倍に引き上げ、NGOへの依存を大幅に減らすことができれば、収支はプラスとなる。

付属資料3

環境評価の手順及びその結果

1. スクリーニング

あるプロジェクトが環境影響評価 (EIA: Environmental Impact Assessment)を必要とするか否かの判断を行うためのスクリーニングの手順は、以下の別図 3-1 に示される。



別図 3-1 スクリーニングの手順

2. 環境影響評価の実施必須項目及びその手順

タンザニア国 NEMC (National Environment Management Council) の提示する環境影響評価の手順に基づく EIA 必須水産業関連プロジェクトの項目は以下のとおりである。

- 中・大規模漁業
- 養殖漁業(魚類・海藻類・甲殻類の養殖)
- 外来種の導入
- 漁港の建築及び拡大
- 浜辺・河川流域の開発
- 分水界管理プロジェクト

(以上 6項目を Appendix 1 とする)

登録を必要とする小規模漁業活動及び企業を以下に記す。なおこれらすべてが EIA を必要とするとは限らない。

• 魚種の養殖

- 海藻の養殖
- 水揚場
- 木材加工所(漁船建築場等)
- 市場(家畜及び各種産物)
- 技術協力

(以上 6項目を Appendix 2 とする)

提案されたプロジェクトもしくはその構想は、「環境アセスメント登録用紙(Environmental Assessment Registration Forms)」と呼ばれる用紙を NEMC に提出した後、登録される。別図 2-2 に登録からプロジェクトが終了するまでの過程を記す。

上記した項目以外の、重大な環境影響を与えないと予測される、もしくは環境変化に対して脆弱な地域(ESA: Environmentally Sensitive/ Critical Areas)外の開発プロジェクトに関しては、タンザニアでは EIA の実施は義務付けられていない(別表 3-1 参照)。しかしながら ESA 域内、もしくはその周辺域に提案されたプロジェクトに対しては、EIA の実施は必須である。既存の情報と現地調査から得た情報に基づき、以下の項目を含む予備的評価が行われる。

- プロジェクト特性の記述
- 影響を受けうる地域の境界線の設置
- 地域環境・社会経済への影響の確認
- 影響の重要性の評価
- プロジェクト・デザインの修正もしくは本格 EIA の実施の考慮

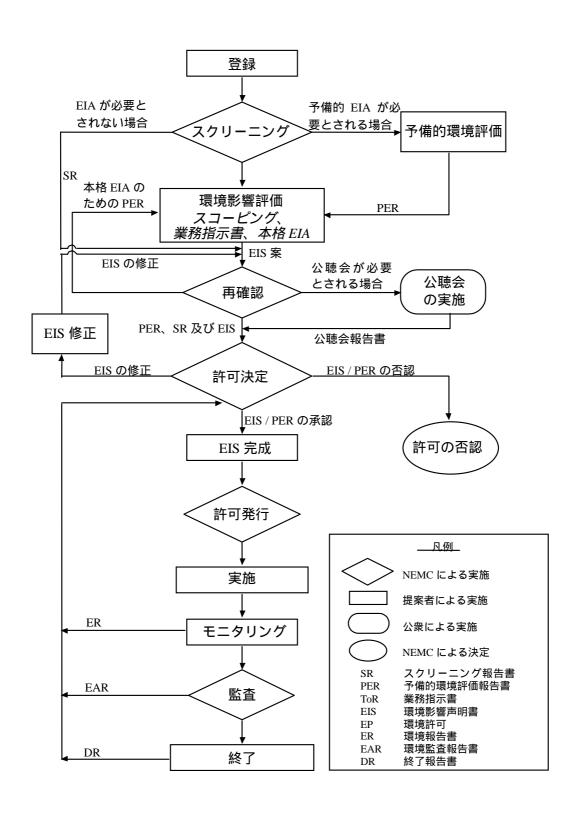
登録後、30 日の間に NEMC はプロジェクトのスクリーニングの報告書をプロジェクト提案者へ提出する。その結果は以下の 4 項目に分類される。

プロジェクトによる重大な環境影響が予測される場合、本格 EIA の実施が要請される。

プロジェクトによる環境影響が起こりえると予測された場合、予備的環境評価(IEE に類似したもの)の実施が要請される。

プロジェクトによる重大な環境影響が予測されない場合、EIA の実施は必要とされない。

プロジェクト要請書が受理されなかった場合、つまり政策もしくは他の法的意向にそぐわないプロジェクトに関しては、それ以上の考慮は行われない。



別図 3-2 タンザニアにおける EIA の手順

別表 3-1:環境変化に対して脆弱な地域 (ESAs) 及び生態系

- 1. 自然災害が起こりやすい地域(地質学上の災害、洪水、嵐、地震、地すべり、火山活動等)
- 2. 湿地(氾濫原、湖沼、河川等)または以下の条件にあてはまる水域;
 - (a) 煉瓦造り等需要がある地域
 - (b) 保護地域内
 - (c) 野生動物の生息地もしくは漁業域
 - (d) 灌漑農地もしくは放牧地
- 3. 以下の条件にあてはまるマングローブ湿地帯;
 - (a) 原生林及び密生地域
 - (b) 主な河口域
 - (c) 伝統漁業域内及びその近辺
 - (d) 水食・風食に対する環境バッファーゾーン
- 4. 侵食が起こりやすい地域
 - (a) 勾配の大きい丘陵地
 - (b) 非被覆地
- 5. 消滅の恐れのある貴重な伝統民族生活地域
- 6. 貴重種・絶滅の恐れのある動植物種の生息域
- 7. 文化的、歴史的、考古学的、もしくは科学的に重要な地域及び観光開発の可能性を持つ地域
- 8. 汚染地域
- 9. 砂漠化及び山火事が進行しやすい地域
- 10. 珊瑚礁及び海洋生態系
 - 珊瑚礁
 - 島
 - 潟及び河口
 - 大陸棚
 - 海岸等
 - 干満によって影響される地域
- 11. 以下の区画に指定されている地区; 国立公園、流域保護区、森林保護区、野生動物保護区及び禁猟区、野生動物コリドー、及び温泉 地域
- 12. 山岳地帯、集水域、及び帯水層
- 13. 主要な農耕地及び放牧地
- 14. 緑地帯及び都市部の公共のオープン・スペース
- 15. 史跡及び墓

なお、以上は定期的に再確認・修正されることとする。

- 3. 初期環境調査 (IEE: Initial Environmental Examination)
- 3.1 IEE チェックシート

初期環境調査(IEE)は、提案されたプロジェクト実施において将来起こりえる重大な環境インパクトの確認を目的とした、初期の段階での環境評価及びプロジェクト構成要素へのスクリーニ

ングからなる。プロジェクト実施の物理的・生態的資源への影響とその利用価値、及び社会・政治・文化的な課題に焦点をあて、将来起こりえる重大な環境インパクトの確認を行う。

IEE によって確認された重大な環境インパクトについては、実施機関がそれらについてより多くを理解し、代案の提示などによって緩和もしくは回避しえる方針を提案していくために、プロジェクト準備・実施期間にさらなる調査が必要とされる。

IEE の実施に際しては、「タンザニア国環境影響評価手順(Tanzania Environmental Impact Assessment Procedure)」の第 5 巻に記載されている「General Checklist of Environmental Characteristics」を環境資源のチェックリストとして利用する。

IEE における自然及び社会環境項目は以下のとおりである。

自然環境項目

- i) 物理的資源
- 水資源(水面、地下水、水文学等)
- 空気資源(気候、風、気温、台風、空気の質等)
- 土地資源(土壌、土壌浸食・土砂堆積、肥沃度、地質、鉱物等)
- ii) 生態的資源
- 水生資源(漁業開発、水生生物学等)
- 陸生資源(森林、植生、野生動物等)
- 絶滅の恐れのある種(貴重種)

社会環境項目

- iii) 利用価値
- 浜利用(住宅供給、市場、水揚場、加工場等)
- 産業(水産物加工産業等)
- 水供給
- 交通
- 廃物処理
- 農業
- 洪水・排水管理
- 動力(電力、燃料、薪)
- 保養
- 鉱業(鉄、リン、石油等)
- 労働環境(騒音、異臭、振動)
- 十地利用
- 産業汚染による環境劣化
- iv) 社会・政治・文化
- 環境に関する規則・法律
- 開発に関する国家政策及び方針
- 行政制度
- 共同体における社会組織、GIE 及び女性グループ (開発と女性の課題)
- 貴重な生態系もしくは歴史・文化的価値のある地域への侵入
- 景勝地
- 入植(適切な場合に限って)

3.2 IEE の結果

(1) ダルエスサラーム漁業基盤改善プログラム

A. 魚市場拡充コンポーネント

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact |
|---|----------------|---|------------------------|
| Relocation of existing users | & facilities | | |
| Commercial areas | ±ve | The relocation of the existing users & facilities will have both a positive and negative impact on the surrounding commercial areas. The –ve impact will be the lost of commercial activities that will impact on the surrounding commercial areas that may depend on the relocated market. The +ve impact will be better facilities that will be built in its place and the benefits accruing from the new facilities. To lessen the impacts, the relocation exercise must be conducted with general consensus of the existing users and relocated to a new location that is acceptable to all concerned/affected. | Moderate |
| Demography | -ve | The relocation exercise will affect the demography of the market users. This impact will be temporary in nature as the relocated users will be transferred back to the new market once construction is complete. | Slight |
| Economy & employ-ment | -ve | The loss of economic activities with the relocation will be temporary. The activities will continue at the new temporary relocated area and eventually transferred back to the newly constructed market once it is completed. The relocation and subsequent return of the users must be conducted fairly with general consensus of the users to lessen conflicts and misunderstandings. | Significant |
| Waste management | +ve | The waste management will improve with the new market facilities and more effective market management. | Moderate |
| Visual pollution | +ve | The haphazard and unplanned existing layout will be replaced with the new market design to improve the visual landscape of the area. | Moderate |
| Solid/ liquid wastes | +ve | The new market will have better facilities to improve waste handling and disposal. | Significant |
| Construction of facilities, uti | lities, drain | | I. |
| Compatibility of use | +ve | Positive impact will be the compatibility of the new market with the existing surrounding activities in the area. The new design must take into account the other activities in the surrounding areas to harmonise/ integrate the market activities with these activities. | Moderate |
| • Economy & employ-ment | +ve | Employment will be generated by the construction activities although the impact will be of temporary nature. The construction labour force will also require services (food, living quarters, transport, etc.) in the area and these demands will impact positively on the local economy although this impact will also be temporary in nature. To minimise conflicts, the contractor should be encouraged to hire local labourers. | Significant |
| Transport network, and risk and hazard | -ve | Negative temporary impacts such as increase constructional traffic flow to the area creating noise, dust and increase safety hazard to local inhabitants. Proper traffic control should be considered during the construction to ensure smooth integration of the constructional traffic into the main roads to minimise these negative impacts. | Moderate |
| Operation /Maintenance of the | ne expanded | I DSM fish market | |
| Stall allocation - impact on: • Demography • Economy & employ-ment Marketing/ transport/ mamal | ±ve | The impact from the stall allocation may be positive or negative depending on the transparency and fairness of the allocation exercise. As not all existing users could be accommodated in the new market facilities, equitable and fair treatment must be ensured to reduce conflict and misunderstanding. | Significant |

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact |
|---|----------------|---|------------------------|
| Compatibility of use Commercial area | +ve | The location of the expanded DSM market within the area of existing ferry fish market will allow efficient and complementary integration of the market activities with the surrounding areas' activities. Due to the limited space in the area, activities that need not be located in this market complex area should be considered for relocation to other more suitable area. The more efficient market activities without the negative environmental problems will enhance the surrounding commercial areas. | Moderate |
| Economy & employment Health and safety | +ve | The operation of the new expanded fish market will generate employment and economic benefits to market users. With better sanitary facilities, the food stalls will be more hygienic and serve healthy food. Proper management and maintenance procedure to maintain the cleanliness and hygiene of the market must be implemented, with also public awareness campaign to to achieve sanitary conditions in the market. | Moderate |
| Activities at the relocation si Compatibility of use Commercial area Economy & employment Waste management Transport network | ±ve | The relocated market site must be chosen carefully considering the appropriateness of the chosen area to accommodate the relocated activities. The impacts on this relocated area could be positive or negative depending on the characteristics & suitability of the area, the process of relocation, the management & operation of the new area, and the permanency or temporary status of this new relocated market. The possible impacts listed on the left must be considered when selecting the relocation area. The general consensus of the relocated market users and also the residents in the relocated area must be obtained to lessen the negative impacts of the relocation exercise. | Moderate |

B. キブコニ・フロント漁船係留地改善コンポーネント

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact |
|------------------------------|----------------|---|------------------------|
| Relocation of existing users | | | 1 |
| Commercial areas | ±ve | The relocation of the existing users & facilities will have both a positive and negative impact on the surrounding commercial areas. The –ve impact will be the lost of certain activities that the surrounding commercial areas may depend on such as the mamalishe stalls in the Kivokuni area. The +ve impact will be better facilities that will be built in its place and the benefits accruing from the new facilities. To lessen the impacts, the relocation exercise must be conducted with general consensus of the existing users and relocated to a new location that is acceptable to all concerned/affected. | Moderate |
| Demography | -ve | The relocation exercise will affect the demography of the area. This impact will be temporary in nature as the relocated users will be transferred back to the new front once construction is complete. | Moderate |
| Economy & employment | -ve | The loss of economic activities with the relocation will be temporary. The activities will continue at the new temporary relocated area and eventually transferred back to the newly constructed facilities once it is completed. The relocation and subsequent return of the users must be conducted fairly with general consensus of the users to lessen conflicts and misunderstandings. | Moderate |
| Waste management | +ve | The waste management will improve with the new facilities and more effective management. | Moderate |
| • Visual pollution | +ve | The haphazard and unplanned existing layout will be replaced with the new front design to improve the visual landscape of the area. | Moderate |

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact |
|--------------------------------|----------------|--|------------------------|
| Solid/ liquid wastes | +ve | The new facilities will have better facilities to improve waste | Moderate |
| C | 11:4: 1: | handling and disposal. | |
| • Compatibility of use | +ve | Positive impact will be the compatibility of the new facilities with the existing surrounding activities in the area. The new design will be | Significant |
| | | able to better accommodate the activities in the area, and to | |
| | | harmonise/ integrate these activities with these of the surrounding areas. | |
| • Economy & employment | +ve | Employment will be generated by the construction activities although | Significant |
| Decinomy & employment | 1 10 | the impact will be of temporary nature. The construction labour force | Significant |
| | | will also require services (food, living quarters, transport, etc.) in the | |
| | | area and these demands will impact positively on the local economy | |
| | | although this impact will also be temporary in nature. To minimise | |
| | | conflicts, the contractor should be encouraged to hire local | |
| | | labourers. | |
| • Transport network, and | -ve | Negative temporary impacts such as increase constructional traffic | Moderate |
| risk and hazard | | flow to the area creating noise, dust and increase safety hazard to | |
| | | local inhabitants. Proper traffic control should be considered during | |
| | | the construction to ensure smooth integration of the constructional | |
| | | traffic into the main roads to minimise these negative impacts. | |
| Operation /Maintenance of t | he Kivokun | i Front | |
| Stall allocation - impact o | n: | | |
| Demography | ±ve | The impact from the stall allocation may be positive or negative | Significant |
| • Economy & employment | | depending on the transparency and fairness of the allocation exercise. | |
| | | As not all existing users could be accommodated in the new front | |
| | | facilities, equitable and fair treatment must be ensured to reduce | |
| | | conflict and misunderstanding. | |
| | | ood stall activities – impact on: | |
| • Compatibility of use | +ve | The location of the front within the area of existing fish market will | Moderate |
| Commercial area | | allow efficient and complementary integration of the activities with | |
| | | the surrounding areas' activities. Due to the limited space in the area, activities that need not be located in this front area should be | |
| | | considered for relocation to other more suitable area. The more | |
| | | efficient activities without the negative environmental problems will | |
| | | enhance the surrounding commercial areas. | |
| • Economy & employment | +ve | The operation of the new front will generate employment and | Moderate |
| • Health and safety | | economic benefits to the users. With better facilities, the food stalls | 1,10001410 |
| | | will be more hygienic and serve healthy food. The supply of fuel, ice | |
| | | and water will benefit the users and improve the sanitation of the | |
| | | handled fisheries products. Proper management and maintenance | |
| | | procedure to maintain the cleanliness and hygiene of the front must | |
| | | be implemented, with also public awareness campaign to achieve | |
| | | sanitary conditions in the beach front areas. | |
| Activities at the relocation b | each front s | ite | |
| Compatibility of use | ±ve | The relocated market site must be chosen carefully considering the | Moderate |
| • Commercial area | | appropriateness of the chosen area to accommodate the relocated | |
| • Economy & employment | | activities. The impacts on this relocated area could be positive or | |
| • Waste management | | negative depending on the characteristics & suitability of the area, the | |
| • Transport network | | process of relocation, the management & operation of the new area, | |
| | | and the permanency or temporary status of this new beach front. The | |
| | | possible impacts listed on the left must be considered when selecting | |
| | | the relocation area. The general consensus of the relocated beach | |
| | | front users and also the residents in the relocated area must be | |
| | | obtained to lessen the negative impacts of the relocation exercise. | |

(2) ビクトリア湖水産物流通改善プログラム

A. キルンバ市場建設コンポーネント

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact |
|---|----------------|--|------------------------|
| Relocation of existing users | | | |
| Commercial areas | ±ve | The relocation of the existing users & facilities will have both a positive and negative impact on the surrounding commercial areas. The –ve impact will be the lost of commercial activities that will impact on the surrounding commercial areas that may depend on the relocated market. The +ve impact will be better facilities that will be built in its place and the benefits accruing from the new facilities. To lessen the impacts, the relocation exercise must be conducted with general consensus of the existing users and relocated to a new location that is acceptable to all concerned/ affected. | Significant |
| Demography | -ve | The relocation exercise will affect the demography of the market users. This impact will be temporary in nature as the relocated users will be transferred back to the new market once construction is complete. | Moderate |
| Economy & employment | -ve | The loss of economic activities with the relocation will be temporary. The activities will continue at the new temporary relocated area and eventually transferred back to the newly constructed market once it is completed. The relocation and subsequent return of the users must be conducted fairly with general consensus of the users to lessen conflicts and misunderstandings. | Significant |
| Waste management | +ve | The waste management will improve with the new market facilities and more effective market management. | Moderate |
| Visual pollution | +ve | The existing under developed facilities will be replaced with the new market facilities to enhance the visual landscape of the area. | Moderate |
| Solid/ liquid wastes | +ve | The new market will have better facilities to improve waste handling and disposal. | Significant |
| Construction of facilities, uti | lities, draina | | 1 |
| Compatibility of use | +ve | The rationalised activities in the new market will make the market operation more efficient. Positive impact will be the compatibility of the new market activities with the existing surrounding activities in the area. | Significant |
| • Economy & employment | +ve | Employment will be generated by the construction activities although the impact will be of temporary nature. The construction labour force will also require services (food, living quarters, transport, etc.) in the area and these demands will impact positively on the local economy although this impact will also be temporary in nature. To minimise conflicts, the contractor should be encouraged to hire local labourers. | Significant |
| Transport network, and risk and hazard | -ve | Negative temporary impacts such as increase constructional traffic flow to the area creating noise, dust and increase safety hazard to local inhabitants. Proper traffic control should be considered during the construction to ensure smooth integration of the constructional traffic into the main roads to minimise these negative impacts. | Moderate |
| Operation /Maintenance of the | | mba Mwaloni Fish Market | |
| Stall allocation - impact of | | | |
| Demography Economy & employment | ±ve | The impact from the stall allocation may be positive or negative depending on the transparency and fairness of the allocation exercise. As not all existing users could be accommodated in the new market facilities, equitable and fair treatment must be ensured to reduce conflict and misunderstanding. | Significant |

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact |
|--|----------------|--|------------------------|
| Marketing/ transport/ man | nalishe/ foo | d stall activities – impact on: | |
| Compatibility of use | +ve | Operation of the new market will be more efficient and better | Significant |
| Commercial area | | complement/ integrate the market activities with the surrounding | |
| | | areas' activities. Due to the limited space in the area, activities that | |
| | | need not be located in this market complex area should be considered for relocation to other more suitable area. The more efficient market | |
| | | activities without the negative environmental problems will enhance | |
| | | the surrounding commercial areas. | |
| • Economy & employment • Health and safety | +ve | The operation of the new fish market will generate employment and economic benefits to market users. With better sanitary facilities, the food stalls will be more hygienic and serve healthy food. Proper | Moderate |
| | | management and maintenance procedure to maintain the cleanliness | |
| | | and hygiene of the market must be implemented, with also public | |
| | | awareness campaign to to achieve sanitary conditions in the market. | |
| Activities at the relocation si | te | | |
| Compatibility of use | ±ve | The relocated market site must be chosen carefully considering the | Moderate |
| Commercial area | | appropriateness of the chosen area to accommodate the relocated | |
| • Economy & employment | | activities. The impacts on this relocated area could be positive or | |
| Waste management | | negative depending on the characteristics & suitability of the area, the | |
| Transport network | | process of relocation, the management & operation of the new area, | |
| | | and the permanency or temporary status of this new relocated market. | |
| | | The possible impacts listed on the left must be considered when | |
| | | selecting the relocation area. The general consensus of the relocated | |
| | | market users and also the residents in the relocated area must be | |
| | | obtained to lessen the negative impacts of the relocation exercise. | |

B. ナイルパーチ工場残滓加工施設整備コンポーネント

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact |
|--|----------------|---|------------------------|
| Construction of Nile perch p | rocessing fa | cilities, utilities, drainage, etc. | |
| Compatibility of use Residential area | +ve | The better facilities will improve the overall environment of the area thus benefiting the surrounding residential area and contribute to better compatibility of the usage of the area for Nile Perch processing. | Moderate |
| Economy & employment | +ve | The simple construction will only require a small temporary constructional labour force. The impact of this constructional labour force on the area will be minimal and also be temporary in nature. To minimise conflicts, the contractor should be encouraged to hire local labourers. | Slight |
| • Visual pollution • Transport network | +ve | The new facilities will positively impact on the visual landscape of the area. The improvement of the access road will also contribute positive benefits to the area. | Moderate |
| Operation /Maintenance of the | ne Nile perc | h processing facilities | |
| Stall allocation - impact of | n: | | |
| Demography Economy & employment | ±ve | The impact from the stall allocation may be positive or negative depending on the transparency and fairness of the allocation exercise. Equitable and fair treatment must be ensured to reduce conflict and misunderstanding. | Moderate |
| Processing activities – imp | pact on: | | |
| Compatibility of use Residential area Waste management Solid/ liquid/ by-product waste | -ve | The processing activities will have negative impacts in the area. To minimise these negative impacts, adequate water and suitably designed facilities to handle the waste discharged are to be provided. Better shelter to protect the products will thus reduce the spoilage and thus wastage. | Moderate |

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact |
|---------------------------|----------------|--|------------------------|
| Administration & manager | ment – impa | act on: | |
| • Economy & employment | ±ve | Positive or negative impacts will largely depend on proper | Moderate |
| Waste management | | management and maintenance procedure to maintain the cleanliness | |
| Solid/ liquid/ by-product | | and hygiene of the processing area. Also public awareness campaign | |
| waste | | to achieve sanitary conditions in the area must be implemented. | |

(3) ビクトリア湖水揚げ地整備プログラム

| Activity & Impact On | Type of Impact | Mitigation | Significance of Impact | |
|--|----------------|--|------------------------|--|
| Landing facilities (jetty), ice | maker, stor | age, handling area, services, etc. | | |
| Compatibility of use | +ve | The better facilities will improve the overall environment of the area | Significant | |
| Commercial area | | thus impacting on nearby commercial area and contribute to better | | |
| | | compatibility of the usage of the area for Nile Perch landing, | | |
| | | marketing and distribution. | | |
| • Economy & employ-ment | +ve | The small scale construction will only require a small temporary | Moderate | |
| | | constructional labour force. The impact of this constructional labour | | |
| | | force on the area will be minimal and also be temporary in nature. To | | |
| | | minimise conflicts, the contractor should be encouraged to hire local | | |
| | | labourers. | | |
| • Transport network | +ve | The improvement of the access road will also contribute positive | Moderate | |
| | | benefits to the area. | | |
| Operation /Maintenance of the | ne landing f | acilities | | |
| • Economy & employment | ±ve | Positive or negative impacts will largely depend on proper | Moderate | |
| Waste management | | management and maintenance procedure to maintain the cleanliness | | |
| • Solid/ liquid/ by-product | | and hygiene of the processing area. Also public awareness campaign | | |
| force on the area will be minimal and also be temporary in nature. To minimise conflicts, the contractor should be encouraged to hire local labourers. Transport network +ve The improvement of the access road will also contribute positive benefits to the area. Operation /Maintenance of the landing facilities Economy & employment | | | | |

| | | | | | | | | | _ | _ | | _ | _ | _ | | | | _ | | | | | | | _ | | | - 1 | | - | | | _ | | | | | |
|---|----------|--------------------|------------------------------|----------|-----------|---------------|--------|--|-----------------------|--------------------|-------------------|------------------|------------------|--------------------|--------------|-----------------------|-----------------|------------------------------------|----------|--------------|-----------------|-------------------|--|-------------------------------|-----------------------|-----------------|--------------------|-------------------------|---------------|-----------------|-------------------------------|------------------|--|-----------------|----------------------|-------------------------|--------------------------|---------------------|
| Environmental resources | Ph | nysical | resour | ces | Ec | ological | resou | irces | ┢ | Land U | Jse/ Lar | ndscape | • | С | Cultura | l/ Soci | o-Ecor | omic | | Ι | Infra | structur | e Servic | es | Τ | Socia | l Serv | ices | Pres | sent/fu | ture Po | ollution | ╁ | Τ | 0 | thers | 1 | _ |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | ms | | | | | | | | | | | | | | | | | | | | | | | | | | | | ad | | Solid/ liquid/ by products wastes Risk and Hazard | | | | Effects | |
| | | | Marine and Estuarine Systems | | | Ι. | | | | | | | | | | Ħ | | | | | | | | | | | | | | | Noise, vibration and lighting | | 8 | | | > | ic E | |
| | | | e S | | | To No. | 200 | | 9 | | | | | | | Economic & Employment | | | | | | | | | | | | 83 | | | Ē | | duc | | ١, | Awareness and Publicity | Cumulative & Synergistic | Ħ |
| | | tem | arin | | | 3 | و د | e s | r us | sas | S | as | | ses | | old. | | | | | ent | 겉 | | ion | tion | | ices | Ě | | | and | | oid _ | | tioi | ldu' | yne | sme |
| | | Syst | stu | | | _ 1 | Alle d | <u> </u> | y fo | Are | rea | Are | eas | our. | | Ε | ie. | e e | | | gem | §. | | icat | titul | SS | erv | faci | | on | 100 | ioi . | ard by | ety | dera | J P | Š | ance |
| | | ter. | Pd E | | | lant | 26 | ed s | Ιŧ | nal | al A | ial, | Αľ | š | phic | ઝ | J. of | ofil) | | | mag | 2 | _ | I I | Ins | īvi | y S | nal | ion | Ē | rati | Ħ : | Haz | Saf | nsi | s ar | ve & | ij |
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| | pin | Fresh Water System | arin | limate | Fisheries | Aquatic plant | 201 | Ierresnai wudnie Endangered species | Compatibility for use | Recreational Areas | Residential Areas | Commercial Areas | Industrial Areas | Cultural Resources | Demographic | ò | Welfare Profile | Health Profile Cultural Profile | Energy | Water | Waste Managemen | Transport Network | Education | riousing Felecommunication | Financial Institution | Health Services | Emergency Services | Recreational facilities | Air Pollution | Water Pollution | 91.86 | Visual Pollution | Solid/ Inquid/ by Risk and Hazard | Health & Safety | Policy Consideration | war | Ē | Positive Enhancemen |
| Type of activities | Ľ, | | | | _ | | | | ŭ | Š | Re | ŭ | Ë | ű | ă | Э | ≱ | ± ŭ | 垣 | ≱ | ≱ | Ë | 国 日 | T P | 正 | Ħ | ŭ | Re | Ā | ≱ | ž | չ Հ | 8 2 | Ħ | 8 | Ŕ | ũ | Po |
| Programme 2: Dar es Salaam Fisheries Inf | rastr | uctu | re Ir | nprov | eme | nt Pro | grai | mme | 1 | | | | _ | _ | _ | _ | _ | _ | 1 | | | _ | _ | 4 | _ | | | _ | _ | _ | | _ | 4 | + | _ | | <u> </u> | ₩ |
| 1. Expansion of DSM Fish Market | | <u> </u> | <u> </u> | ш | 4 | _ | 4 | 4 | ↓ | | | | _ | | _ | _ | _ | _ | | | | | _ | 4 | | | | _ | _ | _ | _ | | | 4 | 4 | <u> </u> | <u> </u> | Щ. |
| Execution / Construction | | <u> </u> | <u> </u> | ш | 4 | _ | 4 | 4 | ↓ | | | | _ | | _ | _ | _ | _ | | | | | _ | 4 | | | | _ | _ | _ | _ | | | 4 | 4 | <u> </u> | <u> </u> | Щ. |
| - Relocation/demolition of existing facilities | | | | | | _ | | _ | | | | ±2 | | | -1 | 3 | | | | | 2 | ±1 | _ | | | | | | | | | 2 | 3 | | | 3 | | 3 |
| - Construction of facilities | 2 | | | | | _ | | _ | 2 | 2 | | 2 | 1 | | | 3 | | | | | | -2 | _ | | | | | | | | | 2 | 3 | 2 | | 3 | | 3 |
| - Access road, utilities, drainage | 2 | | | | | | | | 2 | 2 | | 2 | 1 | | | 3 | | | | | 2 | 2 | | | | | | | | | | | 3 | | | | | 3 |
| Operation/ Maintenance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - Stall allocation | | | | | | | | | | | | | | - | ±3 : | ±3 | | | | | | | | | | | | | | | | | | | | | | |
| - Marketing/ transport activities | | | | | | | | | ** | 3 | | 3 | | | | 3 | | | | | ±3 | 3 | | | | | | | | | | | 3 | | | | | 3 |
| - Administration and Management | Ľ | | | ĽΤ | | | J | | Γ | \mathbb{I}^{-} | П | LT | | | | ±3 | | | Ľ | L^{-} | ±3 | | | I | ±3 | | _7 | _7 | | _7 | π | | 3 | Ι | Ľ | L^{-} | Γ | ±3 |
| - Mamalishe/ food kiosk/ stalls, etc. | | | | | T | 7 | 1 | | 1 | | П | | 7 | T | T | 3 | T | | | | П | 寸 | T | 1 | П | | ╗ | 7 | T | T | 7 | + | 3 | ±3 | T | | | ±3 |
| Future Induced Effects | L | L | L | | 丁 | | | | I | L | | | | | | | | | L | L | | ΞŤ | | 1 | L | | | | | | | Ξſ | ╛ | Ī | L | L | L | |
| - Increase value of surrounding land | 匚 | 匚 | 匚 | 口 | I | I | I | I | 匚 | ┎ | | 3 | ┚ | J | J | ┚ | ┚ | I | 匚 | 匚 | 口 | コ | I | I | | | ╛ | ┚ | ┚ | J | ℶ | ユ | I | I | 匚 | 匚 | 匚 | 3 |
| - Promote related activities nearby | ⊏ | | | | I | | Ι | | Г | Г | | ┚ | | J | J | J | J | | ⊏ | | 口 | I | | I | | | J | | J | J | I | I | | Ι | 3 | | ⊏ | |
| Extension Activitites | ட் | 屸 | 屸 | Ш | Д | 厂 | | | Ļ | 匚 | تـــ | | | | _Ţ | _[| _[| | L | 匚 | لـــا | Д | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | \perp | لب | 峘 | | | _[| _Ţ | $oldsymbol{\bot}$ | Д | J | 工 | 匸 | 匚 | 匚 | ட |
| - Training /education/ capacity building | L | $oxed{\Box}$ | $oxed{\Box}$ | ш | Ц | | Ţ | | L | Ш | Ш | Ш | [| _[| [| 3 | 3 | 3 | | $oxed{\Box}$ | Щ | _[| | | ш | Ш | | [| _[| [| [| _[| | 1 | L | 3 | 3 | 3 |
| Extension Activities - Training /education/ capacity building Relocation Activities | ⊢ | ₩ | ₩ | \vdash | 4 | _ | 4 | + | 4 | ₩ | \vdash | Ļ | _ | _ | _ | _ | 4 | | ┡ | _ | H | 4 | 4 | + | ш | Щ | _ | _ | 4 | _ | 4 | 4 | ╌ | + | 1 | ₩ | ₩ | <u> </u> |
| - Activities at new relocation site | ⊢ | 1 | 1 | \vdash | + | + | + | + | ±3 | + | Н | ±3 | _ | _ | | ±3 | _ | | 1 | _ | ±3 | ±3 | + | + | \vdash | Щ | _ | _ | _ | _ | _ | <u>+</u> | 3 | + | + | 1 | | ±3 |
| 4 | ⊢ | 1 | 1 | ш | 4 | | 4 | _ | 1 | 1 | Ш | | _ | | | _ | _ | | <u> </u> | _ | Щ | _ | 4 | 4 | \perp | Ш | | _ | _ | | _ | 4 | ┸ | + | 1 | <u> </u> | _ | ₩ |
| 2. Mooring Area (Kivokuni Front) Execution / Construction - Construction of facilities - Access road, utilities designed | ╙ | Щ. | Щ. | ш | _ | | ┸ | 4 | 1 | Ц_ | Ш | Ш | | | | _ | _ | | <u> </u> | _ | Ш | | | 4 | ш | Ш | | | _ | | | | ┸ | 1 | _ | Щ | _ | Щ. |
| Execution / Construction | L | $oxed{oxed}$ | $oxed{oxed}$ | Ш | ┙ | | | ┸ | L | | | | | | | | | | 乚 | L | Ш | | | ┸ | | | | | | | | ⊥ | ┸ | | | L | L | 丄 |
| - Construction of facilities | 2 | Ĺ | Ĺ | Ш | J | | ፗ | Ш | 2 | L | الل | 2 | ┚ | J | | 2 | | | L | Ĺ | الا | -2 | J | Ţ | Ш | آل | J | ┚ | | _J | J | 2 | 3 | 2 | | 3 | Ĺ | 3 |
| | 2 | | | | Т | T | Т | | - 2 | 2 | | 2 | П | T | T | 2 | T | | | | 3 | 2 | Т | | | | | | T | T | Т | T | 3 | | | | | 3 |
| Shoreside Activities | | | | | T | 1 | 1 | 1 | T | | | | T | T | T | T | T | | | | П | T | 丁 | 1 | | | \neg | T | T | T | T | 寸 | 1 | T | T | | | |
| - Boat mooring | Т | T | 1 | \sqcap | 十 | _ | 十 | 1 | t | t | П | | 7 | 7 | 寸 | _ | _ | 1 | t | | H | 2 | 十 | \top | т | | | _ | _ | 7 | 寸 | 十 | 1 | \top | t | T | T | |
| - Supply of fuel, ice, water, etc. | T | | Ė | \vdash | + | + | + | 1 | 1 | t | П | Ħ | 7 | 7 | -1 | 3 | 7 | \dashv | 1 | Г | Н | ┪ | \dashv | + | П | \vdash | 7 | 7 | 7 | -1 | 1 | \dashv | + | 1 | 3 | f | 3 | 3 |
| - Boat building and repair | H | H | H | \vdash | $^+$ | \dashv | + | + | t | t | Н | | + | + | + | , | + | + | t | | H | \dashv | \dashv | + | \vdash | H | | \dashv | + | + | + | + | + | + | 1 | H | , | <u> </u> |
| Operation/ Maintenance | t | t | t | \vdash | \dashv | \dashv | + | + | t | t | Н | H | + | + | + | + | + | + | f | Т | H | \dashv | + | + | \vdash | H | \dashv | \dashv | + | + | \dashv | \dashv | + | + | ٢ | t | t | H |
| - Stall allocation | t | H | H | \vdash | + | - | + | + | t | t | П | \dashv | -1 | 一. | ±3 : | ±3 | 7 | + | t | т | Н | \dashv | 十 | + | \vdash | H | _ | _ | 7 | 7 | + | \dashv | + | \top | т | Ħ | t | \vdash |
| - Marketing/ transport activities | t | t | t | \vdash | $^+$ | \dashv | + | + | 1 | 1 | Н | 3 | -1 | Ť | - 1 | 3 | + | + | t | | ±3 | 3 | + | + | \vdash | H | - | -1 | + | + | + | + | 3 | + | t | t | t | 2 |
| - Marketing/ transport activities - Administration and Management | \vdash | \vdash | \vdash | \vdash | + | \dashv | + | + | ۲ | ╁ | \vdash | ر | \dashv | \dashv | \dashv | ±3 | \dashv | + | ┢ | H | ±3 | - | + | + | 42 | Н | - | \dashv | \dashv | \dashv | \dashv | + | 3 | + | ٠ | H | \vdash | 73 |
| - Administration and Management - Mamalishe/ food kiosk/ stalls, etc. | \vdash | \vdash | \vdash | \vdash | + | \dashv | + | + | ╁ | ╫ | \vdash | \dashv | \dashv | \dashv | ا | 2 | \dashv | + | ┢ | H | رب | \dashv | + | + | 3 | H | - | \dashv | \dashv | \dashv | \dashv | | 3 | +3 | ٠ | H | \vdash | ±3 |
| Future Induced Effects | H | H | H | + | + | + | + | + | ╁ | ۲ | H | \vdash | - | \dashv | + | 3 | \dashv | + | ┢ | \vdash | Н | \dashv | + | + | + | Н | - | - | \dashv | + | \dashv | ╬ | + | ±3 | + | H | \vdash | Ξ.) |
| - Increase value of surrounding land | ┢ | - | - | + | + | - | + | + | + | 1 | | 3 | - | | - | -+ | -+ | _ | 1 | | | - | - | + | - | - | _ | - | -+ | - | - | - | + | + | +- | - | 1 | 3 |
| - Promote related activities nearby | | | | \vdash | + | + | + | + | | 1 | H | | - | _ | _ | _ | _ | + | 1 | | Н | - | \dashv | + | + | -1 | | - | _ | _ | _ | _ | + | + | 3 | | 1 | _ |
| Extension Activities | | | | | T | 1 | + | | t | | | | 7 | | _ | | | | | | | _ | 1 | + | | | | _ | | _ | _ | _ | + | + | Ħ | | | |
| - Training /education/ capacity building | H | 1 | 1 | m | _ | _ | T | | | 1 | m | | | _ | | 3 | 3 | 3 | | | | | _ | \top | | | | | | | | | _ | | 1 | 3 | 3 | 3 |
| Relocation Activitites | | | | | | | Т | | | | | | | | | | | | | | | | | | | | | | | | | | | T | | | | |
| - Activities at new relocation site | | | | | | | T | | ±3 | | | ±3 | | | | ±3 | | | | | ±3 | ±3 | | | | | | | | | | ± | 3 | | | | | ±3 |
| | | | | | | | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Expansion of DSM Fish Market | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Т | | | | | |
| Execution / Construction | | | | | | | Т | | | | | | | | | | | | | | | | | | | | | | | | | | | T | | | | |
| - Relocation/demolition of existing facilities | | | | | T | 1 | + | | - | | | | 7 | | _ | 3 | | | | | | _ | 1 | + | | | | _ | 3 | _ | _ | 3 | + | + | 3 | | | |
| - Construction of facilities | H | | | H | + | \dashv | + | + | t | + | | | _ | - | _ | | - | _ | 1 | | H | - | \dashv | + | + | | | _ | | _ | 3 | | 3 | 3 . | 2 | H | 1 | \vdash |
| - Access road, utilities, drainage | H | | | H | + | \dashv | + | + | t | +- | | | _ | - | _ | _ | _ | _ | 1 | | 3 | 3 | \dashv | + | + | | | _ | _ | _ | | _ | 1 | - | 1 | H | 1 | \vdash |
| Operation/ Maintenance | \vdash | \vdash | \vdash | \vdash | + | \dashv | + | + | ╁ | ╫ | \vdash | \dashv | \dashv | \dashv | + | \dashv | \dashv | + | ┢ | H | - | - | + | + | \vdash | H | - | \dashv | \dashv | \dashv | \dashv | + | + | + | ٠ | \vdash | \vdash | \vdash |
| | H | H | H | + | + | + | + | + | ╁ | ۲ | H | \vdash | - | \dashv | + | _ | \dashv | + | ┢ | \vdash | Н | \dashv | + | + | + | Н | - | - | \dashv | + | \dashv | + | + | + | + | H | \vdash | ╁ |
| - Stall allocation | ⊢ | H | H | \vdash | + | + | + | + | 1 | 1 | Н | \dashv | - | - | + | 3 | + | + | 1 | - | H | + | + | + | + | \dashv | - | - | + | - | + | + | + | + | 1 3 | ┢ | 1 | ⊢ |
| - Marketing/ transport activities | ⊢ | +- | +- | \vdash | + | + | + | + | ╀ | +- | \vdash | \vdash | - | - | - | 3 | \dashv | + | ┢ | \vdash | Н | + | + | + | + | Н | - | - | \dashv | - | + | + | + | + | 1 3 | + | + | ₩ |
| - Administration and Management | ⊢ | 1 | 1 | \vdash | + | - | + | + | 1 | 1 | Н | | _ | - | -+ | 3 | - | + | ⊢ | _ | Н | + | + | + | \vdash | Н | | _ | - | | + | + | + | + | 3 | ⊢ | 1 | ⊢ |
| - Mamalishe/ food kiosk/ stalls, etc. | ⊢ | 1 | 1 | ш | 4 | | 4 | _ | 1 | 1 | Ш | | _ | | | 3 | _ | | <u> </u> | _ | Щ | _ | 4 | 4 | \perp | Ш | | _ | _ | | _ | 4 | ┸ | + | 3 | <u> </u> | _ | ₩ |
| Future Induced Effects | ⊢ | +- | +- | \vdash | + | + | + | + | ┢ | + | \vdash | \vdash | - | - | - | \dashv | \dashv | + | ┢ | \vdash | Н | \dashv | + | + | + | Н | - | - | \dashv | - | + | + | + | + | Η. | + | + | ₩ |
| - Increase value of surrounding land | ⊢ | H | H | \vdash | + | + | + | + | H | 1 | Н | \dashv | - | - | + | + | + | + | 1 | - | H | + | + | + | + | \dashv | - | - | + | - | + | + | + | + | 3 | ┢ | 1 | ⊢ |
| - Promote related activities nearby Extension Activities | ⊢ | ⊢ | ⊢ | \vdash | + | - | + | + | ۲ | + | \vdash | \vdash | 4 | \dashv | + | \dashv | \dashv | + | ⊢ | \vdash | H | \dashv | + | + | \vdash | H | | - | \dashv | + | \dashv | + | + | + | 1 3 | ⊢ | \vdash | \vdash |
| Extension Activities - Training /education /capacity building | H | H | H | + | + | + | + | + | ╁ | ۲ | H | \vdash | - | \dashv | + | \dashv | \dashv | + | ┢ | \vdash | Н | \dashv | 3 | + | + | Н | - | - | \dashv | + | \dashv | + | + | + | + | 2 | + | ╁ |
| Extension Activities Relocation Activities - Activities at new relocation site | H | H | H | + | + | + | + | + | ╁ | ۲ | H | \vdash | - | \dashv | + | \dashv | \dashv | + | ┢ | \vdash | Н | \dashv | 7 | + | + | Н | - | - | \dashv | + | \dashv | + | + | + | + | - 3 | + | ╁ |
| - Activities at new relocation site | H | H | H | + | + | + | + | + | + | + | H | \vdash | - | \dashv | + | 3 | \dashv | + | ┢ | \vdash | 3 | 3 | + | + | + | Н | - | - | \dashv | + | \dashv | + | + | + | - | H | H | ╁ |
| | \vdash | \vdash | \vdash | \vdash | + | \dashv | + | + | ۲ | + | \vdash | \dashv | + | \dashv | + | 3 | \dashv | + | ┢ | H | 3 | 3 | + | + | \vdash | H | - | \dashv | \dashv | \dashv | \dashv | + | + | + | - 3 | \vdash | ┢ | \vdash |
| Te | ⊢ | +- | +- | \vdash | + | + | + | + | ╀ | +- | \vdash | \vdash | - | - | - | \dashv | \dashv | + | ┢ | \vdash | Н | + | + | + | + | Н | - | - | \dashv | - | + | + | + | + | + | + | + | ₩ |
| 2. Mooring Area (Kivokuni Front) Execution / Construction - Construction of facilities - Access road, utilities, drainage Shoreside Activities - Bout mooring | ₽ | ₩ | ₩ | \vdash | 4 | _ | 4 | + | 1 | ₩ | \vdash | 4 | _ | _ | _ | 4 | 4 | | 1 | _ | Н | 4 | 4 | + | + | Щ | _ | _ | 4 | _ | 4 | 4 | - | + | + | ₩ | ┞ | ₩ |
| Execution / Construction | ⊢ | +- | +- | \vdash | + | + | + | + | ╀ | +- | \vdash | \vdash | - | - | - | \dashv | \dashv | + | ┢ | \vdash | Н | \dashv | + | + | + | Н | - | - | \dashv | - | _ | + | - | + | , | + | + | ₩ |
| - Construction of facilities - Access road, utilities, drainage | ⊢ | ⊢ | ⊢ | \vdash | + | - | + | + | ╁ | ╁ | \vdash | \vdash | 4 | \dashv | + | \dashv | \dashv | + | ⊢ | \vdash | 2 | 2 | + | + | \vdash | H | | - | \dashv | + | 3 | + | 3 | : اد |) | ⊢ | \vdash | \vdash |
| Shoreside Activities - Access road, utilities, drainage Shoreside Activities | H | H | H | + | + | + | + | + | ╁ | ۲ | H | \vdash | - | + | + | \dashv | \dashv | + | ┢ | \vdash | ١ | 3 | + | + | + | H | - | - | \dashv | + | \dashv | + | + | + | ╁ | H | \vdash | ╁ |
| - Boat mooring | H | H | H | + | + | + | + | + | ۰ | + | H | \vdash | - | + | + | \dashv | \dashv | + | ┢ | \vdash | H | 2 | + | + | + | H | - | - | \dashv | + | \dashv | + | + | + | , | H | \vdash | ╁ |
| - Boat mooring - Supply of fuel, ice, water, etc. | H | H | H | + | + | + | + | + | ۲ | + | H | \dashv | -1 | \dashv | + | \dashv | \dashv | + | 2 | 2 | Н | | + | + | + | Н | \dashv | - | \dashv | + | \dashv | + | 3 | + | 1 | t | ┢ | \vdash |
| - Boat building and repair | H | H | H | \vdash | $^+$ | \dashv | + | + | 1 | 1 | Н | | + | + | + | + | + | + | | | H | \dashv | \dashv | + | \vdash | H | | \dashv | + | + | + | + | 3 | + | H | H | H | \vdash |
| Operation/ Maintenance | Т | T | T | \vdash | $^{+}$ | _ | 十 | 1 | T | t | П | \dashv | 7 | _ | | _ | _ | | t | | H | 十 | 十 | ╅ | т | H | 7 | 7 | _ | | 十 | 十 | 1 | \top | t | T | Т | |
| - Stall allocation | Т | T | T | \vdash | $^{+}$ | _ | 十 | 1 | t | t | П | \dashv | 7 | _ | | 3 | _ | | t | | H | 十 | 十 | ╅ | т | H | 7 | 7 | _ | | 十 | 十 | 1 | \top | 3 | T | Т | |
| - Marketing/ transport activities | Г | T | T | \vdash | + | - | + | + | t | t | П | \dashv | _ | 7 | 7 | 3 | \dashv | + | t | г | Н | \dashv | 十 | + | т | Н | \dashv | _ | \dashv | 7 | + | \dashv | + | \top | 3 | t | t | |
| - Administration and Management | T | T | T | \sqcap | 十 | _ | 十 | 1 | t | t | П | | 7 | 7 | 寸 | 3 | 7 | 1 | t | | H | 寸 | 十 | \top | т | | | _ | 7 | 7 | 寸 | 十 | 1 | \top | 3 | T | Т | |
| - Mamalishe/ food kiosk/ stalls, etc. | П | | | ΠŤ | 1 | 7 | T | 1 | 1 | T | П | \neg | 1 | 7 | T | 3 | 7 | | | | П | 1 | 1 | \top | П | | | _ | 7 | 7 | 1 | 1 | ┪ | T | 3 | | | |
| Future Induced Effects | L | L | L | | | | | | I | I | | | | | | | | | | L | | | | | I | | | | | | | | | T | ľ | L | L | |
| - Increase value of surrounding land | | | | ◨ | ┚ | | I | I | _ 3 | | | | ┚ | J | ┚ | ┚ | ┚ | ᆂ | | | | I | 工 | 工 | | | | ┚ | ┚ | ┚ | ⇉ | I | I | I | 3 | | | |
| - Promote related activities nearby | | | | П | J | I | I | I | 3 | | | | ┚ | J | J | J | J | I | | | П | J | I | 工 | П | | | ┚ | J | J | I | I | I | Ι | 3 | | | |
| Extension Activitites | | | | П | I | | I | | L | | | | | ╛ | | | | | | | | | | | | | | | | ┚ | | I | I | | | | | |
| - Training /education/ capacity building | | | | П | I | | I | 1 | L | | | | | ╛ | | | | | | | | | 3 | | | | | | | ┚ | | I | I | | | 3 | | |
| Relocation Activitites | ⊏ | | | | I | | Ι | | Г | Г | | ┚ | | J | J | J | J | | ⊏ | | 口 | I | | I | | | J | | J | J | I | I | | Ι | | | ⊏ | |
| - Activities at new relocation site | 1 _ | 1 - | 1 - | ıΤ | Т | | - [| 1 | 1 3 | | . 7 | . T | 1 | Т | т | 2 | T | | 1 - | | 3 | 3 | | | 1 | . 1 | Т | - 1 | т | 7 | T | | | | | 1 - | 1 - | 1 |
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| \ | Environmental resources | Phy | rysic» | l resour | ces | | Scologi | ical re | source | .] | La | nd Use | / Lan | dscarv | , | 0 | ultural/ | / Socio- | Econo | mic | T | | In | frastruc | ture Se | vices | | | Socia | l Servi | ces | Prese | ent/fee | ture Po | llution | Т | | | Others | _ | |
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| | | | em | arine | | | | e cov | | ies | . nse | as | | ST | | s | - . | ployn | | | | | ŧ | a a | | | ion | ion | | ses | lities | | | and I | | prod | | Ş. | ilhii | noro | ment |
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| | | | Vater | and | e | S | c pla | /veg | ial w | sered | tibili | tiona | ntial | ercial | ialA | al Re | graph | nic & | Dr. of | I Pro | | | Man | ort N | ion | 50 | nuu | ial In | Serv | ency | tiona | on a | Follo | vibra | Poll | idanci | od Ha | 8 8 | S S S S S S S S S S S S S S S S S S S | orive | e Enl |
| | Type of activities | and | Fresh Water System | Marine and Estuarine | Timate | Fisheries | Aquatic plant | orests/vegetative cover | Ferrestial wildlife | indangered species | Compatibility for use | Recreational Areas | Residential Areas | Commercial Areas | ndustrial Areas | Cultural Resources | Demographic | cono | wellate Fiolit | lealin Viltura | | Energy Water | Waste Management | Fransport Network | Education | Housing | Felecommunication | inancial Institution | Health Services | Emergency Services | ecrea | Air Pollunon | / ater | oise, | Visual Pollution | olid/ | tisk and Hazard | Health & Safety | Awareness and Publicity | Sumulative & Symeroistic | Positive Enhancemen |
| | PROGRAMME 4: Fish Marketing Improvement | I | | | C | H | V | F | T | ш | 0 | 2 1 | ~ | C | Ä | O | | H E | 5 3 | |) [| 11 15 | - = | - | Ξ | н | Т | I | 王 | П | ≃ . | < ; | ٤. | z ; | > 0 | Ď, | ≃ : | H G | . 4 | - | <u>a</u> |
| | 1. Construction Of Kirumba Market | | | | | | | | | | | 1 | | | | 4 | | | | 1 | 1 | Ţ | | | | | | | | | 1 | | | 1 | Ţ | 1 | 4 | Ţ | Ţ | Į | ₽ |
| | Execution / Construction - Relocation/demolition of existing facilities | | | | | | | | | \dashv | | + | - | ±2 | | | -1 | 3 | + | + | + | + | - | 2 ±1 | | | | | | - | + | + | + | + | 2 | 3 | - | + | + | 3 | 3 |
| | - Construction of facilities | 2 | | | | | | | | | 2 | 1 | | 2 | 1 | | | 3 | | | 1 | | | -2 | | | | | | | | | | 1 | 2 | 3 | 2 | | | 3 | 3 |
| | - Access road, utilities, drainage Operation/ Maintenance | 2 | | | | | | | | \dashv | 2 | + | + | 2 | 1 | | + | 3 | + | + | + | + | - | 2 2 | ⊨ | | | | | - | 4 | + | + | + | + | 3 | - | + | + | + | 3 |
| | - Stall allocation | | | | | | | | | | | 1 | | | | 1 | ±3 ± | -3 | t | | t | | | | | | | | | | | | | 1 | 1 | 1 | | | İ | İ | |
| | Marketing/transport activities Administration and Management | | | | | _ | | | | 4 | 3 | + | 4 | 3 | _ | | 4 | -3 | + | + | + | - | ±3 | | <u> </u> | | | +3 | | 4 | 4 | + | 4 | + | - | 3 | - | - | + | + | . 2 |
| | - Administration and Management - Mamalishe/ food kiosk/ stalls, etc. | | | | | | | | | + | | + | + | _ | | | Ŧ | 3 | + | + | t | + | ±3 | , | | | | ±3 | | = | 1 | t | 1 | + | _ | 3 | ± | 3 | t | t | ±3 |
| | Future Induced Effects | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | I | |
| | - Increase value of surrounding land | Ш | | Д | Ш | Ĺ | Ц | Щ | Ц | J | Ţ | Ţ | J | 3 | J | Į | Ţ | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Gamma}}}$ | Ţ | Ţ | $oldsymbol{\Box}$ | Ĺ | | Ĺ | | Ц | Щ | J | J | Ţ | $oldsymbol{\mathbb{I}}$ | Ţ | Ţ | Ţ | Т | Ţ | $oldsymbol{\Box}$ | Ĺ | Ļ | 3 |
| ties | - Promote related activities nearby | Ш | | Ш | Ш | _ | Ш | Щ | \Box | 4 | 4 | 4 | _ | _ | _ | 4 | 4 | 4 | 1 | + | 1 | 4 | 1 | \bot | <u> </u> | | Ц | Щ | _ | _ | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | + | \perp |
| Activities | Extension Activities | H | _ | H | H | - | Н | Н | \dashv | 4 | + | + | + | 4 | 4 | - | + | + | 2 | 2 | + | + | + | + | - | - | Н | Н | - | 4 | + | + | + | + | + | + | + | + | + | + | + |
| from A | - Training / education/ capacity building Relocation Activitites | Н | H | \vdash | Н | - | H | \dashv | \dashv | ┥ | + | + | \dashv | \dashv | \dashv | + | + | 3 | 3 | 3 | + | + | + | + | ┢ | - | Н | \dashv | \dashv | \dashv | + | + | + | + | + | + | + | + | + | 3 | 5 3 |
| ment fr | - Activities at new relocation site | H | _ | H | H | | H | H | \dashv | + | -3 | + | + | ±3 | \dashv | - | - | -3 | + | + | \dagger | + | ±3 | 3 ±3 | | | H | H | ┪ | ┪ | \dashv | + | + | + | + | 3 | + | + | + | + | +3 |
| | | | | Ħ | | | | | | | | ┪ | ₫ | _ | | ╛ | ₫ | İ | 1 | t | İ | 土 | | | | | Ш | | ╛ | ╛ | 1 | 1 | 1 | ┪ | Í | Í | ┪ | 土 | İ | 土 | |
| Enviro | 2. Construction Of Local Nile Perch Processing A Execution / Construction | rea | Ĺ | H | Ц | F | Н | Ц | Ц | 1 | Į | 4 | 4 | Į | 4 | Į | _[| Ţ | Ŧ | Ŧ | Ŧ | Ŧ | + | + | F | | Ц | Ц | Ŧ | Į | 4 | Ţ | 4 | 4 | Ţ | 1 | Ŧ | Ŧ | Ŧ | Ŧ | ┯ |
| ct on | - Construction of storage & shed facilities | | | | | | | | | + | 2 | + | 2 | _ | | | \dashv | 1 | + | + | t | + | - | 2 | | | | | | = | 1 | t | 1 | + | 2 | 3 | - | + | t | 3 | 3 |
| Impact | - Access road, utilities, drainage, etc. | | | | | | | | | | 2 | | 2 | | | | | 1 | | | | | | 2 2 | | | | | | | | | | | | 1 | | | | 3 | 3 |
| | Operation/ Maintenance | | | | | | | | | 4 | _ | 4 | 4 | 4 | | 4 | 4 | 4 | - | + | + | - | + | - | | | Н | | _ | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | + | + | ₩ |
| | - Stall/shed allocation | | | | | | | | | + | _ | + | _ | + | | | 2 | 2 | + | + | + | + | - | | - | | | | | - | 4 | + | + | + | + | _ | - | | + | + | + |
| | Processing (drying, smoking, frying) activities Surface water drainage discharge | | | | | - | | Н | | + | 2 | + | -2 | + | + | - | + | + | + | + | + | + | ╁ | 3 | | | H | Н | - | + | + | + | 3 | + | + | 3 | + | 3 | + | + | - 3 |
| | - Administration and Management | | | | | | | | | 7 | | + | 7 | 7 | | | - | -3 | t | + | t | \top | ±3 | 3 | | | | | | 7 | 1 | t | , | + | ± | 3 | | \top | Ť | t | ±3 |
| | Future Induced Effects | | | | | | | | | | | T | T | T | | | | | | | T | | | | | | | | | T | | | T | T | | T | | | | T | T |
| | - Acquire more land | | | | | | | | | | 2 | | 3 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | I | 3 |
| | - Increase value of surrounding land | | | | | | | | | 4 | | _ | _ | 3 | | 4 | 4 | 4 | _ | 4 | 1 | 4 | 4 | _ | | | | | | _ | 4 | 4 | _ | _ | 4 | 4 | 4 | 4 | 1 | 4 | 3 |
| | - Promote related activities nearby | | | | | _ | | | | 4 | _ | + | 4 | 4 | _ | | 4 | _ | + | + | + | - | - | - | <u> </u> | | | | | 4 | 4 | + | 4 | + | + | + | - | - | 3 | + | + |
| | Extension Activities | | | | | - | | - | | 4 | + | + | - | + | _ | - | + | 2 | 2 | 2 | + | + | ╁ | + | | | H | - | | 4 | + | + | + | + | + | + | + | + | + | + | 2 2 |
| | - Training / education/ capacity building | | | | | | | | | + | | + | + | _ | | | \dashv | 3 | 3 | 3 | t | + | - | - | | | | | | = | 1 | t | 1 | + | Ŧ | + | - | + | t | 3 | 3 3 |
| | 1. Construction Of Kirumba Market | | | | | | | | | Ħ | | t | 1 | 1 | | Ħ | | | t | | t | | t | | | | | | | 7 | 1 | t | 1 | t | I | t | | | t | İ | \pm |
| | Execution / Construction | | | | | | | | | _ | _ | 1 | _ | | | | 4 | _ | L | 1 | 1 | 4 | 1 | | | | | | | 4 | 4 | Ţ | _ | 1 | _ | 4 | 4 | 4 | | Ŧ | $oldsymbol{\perp}$ |
| | Relocation/demolition of existing facilities Construction of facilities | | | | | | | | | \dashv | 3 | + | H | + | | | + | 3 | + | + | + | + | - | - | | | | | | - | + | 3 | + | 3 | 3 | 3 | 3 | 3 | 3 | + | + |
| | - Access road, utilities, drainage | | | | | | | | | | | 1 | | | | | | | | | 1 | | | 3 3 | | | | | | | | | | 1 | | Ì | | | | I | I |
| | Operation/ Maintenance - Stall allocation | | | | | _ | | | | 4 | _ | + | - | 4 | _ | 4 | + | 3 | + | + | + | + | ╄ | + | | | H | | | 4 | 4 | + | 4 | + | + | + | + | + | 3 | + | ₩ |
| | - Marketing/transport activities | Н | L | Ħ | Н | L | H | | | đ | | I | đ | Ⅎ | | ▆ | | 3 | t | t | İ | t | t | T | L | E | Ы | | ╛ | ₫ | ╅ | I | ┪ | I | I | | | t | 3 | 士 | T |
| | - Administration and Management | | | П | | | | | П | 7 | 7 | 7 | J | 7 | J | 7 | Ŧ | 3 | Ŧ | Ŧ | 1 | Ŧ | Τ | Ŧ | | | П | | 7 | J | 1 | Ŧ | 1 | 7 | Ŧ | Ŧ | 7 | Ŧ | 3 | Ŧ | Ŧ |
| | - Mamalishe/ food kiosk/ stalls, etc. Future Induced Effects | H | _ | H | H | \vdash | H | H | \vdash | \dashv | + | + | ┪ | \dashv | + | + | + | 5 | + | + | + | + | + | + | ┢ | \vdash | H | H | + | + | + | + | + | + | + | + | + | + | 5 | + | + |
| | - Increase value of surrounding land | Н | | H | Н | - | H | H | \dashv | ┪ | 3 | + | ┪ | ┪ | \dashv | + | + | \dagger | \dagger | \dagger | t | \dagger | t | + | H | | H | H | \dashv | 7 | + | + | + | + | \dagger | + | \dashv | \dagger | 3 | \dagger | + |
| | - Promote related activities nearby | | L | Ħ | | | | | | Ţ | 3 | Ţ | Ţ | Ħ | | | Ţ | ▆ | 1 | j | j | j | İ | 1 | | | | | Ţ | Ţ | | 1 | Ī | Ţ | ▆ | ⇈ | Ţ | j | 3 | J | T |
| ties | Extension Activitites | | | | | | | | | | | I | | | | I | I | I | | Ţ | I | | Ī | | | | | | | | | | | I | I | I | I | | Ι | Į | |
| on Activities | - Training / education/ capacity building | Ш | L | \Box | Ш | | Ш | | Ц | _[| _[| 4 | _[| _[| _[| _ | _ | Ţ | 1 | 1 | 1 | | | | 3 | | Ц | | _[| _[| _[| | | 4 | Ţ | 1 | _[| | 1 | 3 | \perp |
| | Relocation Activitites | H | | H | H | - | Н | Н | Ц | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | + | + | - | + | + | + | \perp | - | - | Н | Н | _ | 4 | 4 | + | 4 | 4 | + | + | 4 | + | + | + | + |
| ment | - Activities at new relocation site | Н | _ | \vdash | Н | - | Н | Н | \dashv | \dashv | 3 | + | + | \dashv | \dashv | + | + | 3 | + | + | + | + | + | 3 3 | - | - | Н | Н | \dashv | \dashv | + | + | + | + | + | + | + | + | 3 | + | + |
| | 2. Construction Of Local Nile Perch Processing A | rea | _ | H | H | \vdash | H | H | \vdash | \dashv | + | + | ┪ | \dashv | + | + | + | + | + | + | + | + | + | + | ┢ | \vdash | H | H | + | + | + | + | + | + | + | + | + | + | + | + | + |
| of Environ | Execution / Construction | | | L | | | | | | | 1 | # | | ⇉ | | 1 | 1 | ļ | 1 | ļ | 1 | ļ | t | L | L | | П | | # | J | 1 | 1 | 1 | # | 1 | # | 1 | ļ | Ţ | ‡ | I |
| Impact | - Construction of storage & shed facilities | Ш | | Ш | Ш | _ | Щ | Ц | Ц | 4 | _ | 4 | 4 | _ | _ | 4 | 4 | \downarrow | 1 | + | 1 | 4 | + | \bot | <u> </u> | | Ц | Ц | _ | _ | 4 | _ | 4 | 3 | _ | 3 | 3 | 3 | + | + | \perp |
| ī | - Access road, utilities, drainage, etc. | Н | L | Н | Н | - | Н | Н | \dashv | 4 | 4 | + | 4 | + | - | 4 | + | + | + | + | + | + | + | 3 3 | ┡ | - | Н | Н | \dashv | 4 | + | 4 | + | + | + | + | + | + | + | + | + |
| | Operation/ Maintenance - Stall/shed allocation | Н | H | \vdash | Н | - | H | \dashv | \dashv | ┥ | + | + | \dashv | \dashv | \dashv | + | + | 3 | + | + | + | + | + | + | ┢ | - | Н | Н | \dashv | \dashv | + | + | + | + | + | + | + | + | 3 | + | + |
| | - Stall/sned allocation - Processing (drying, smoking, frying) activities | H | | H | H | \vdash | H | H | \vdash | + | + | + | + | \dashv | + | + | + | 3 | + | + | \dagger | + | + | + | H | \vdash | H | H | + | + | + | + | + | + | + | + | + | + | 3 | + | + |
| | - Surface water drainage discharge | П | | Ħ | П | | Ħ | П | \exists | ┪ | 7 | \dagger | T | 寸 | ┪ | 7 | + | 3 | t | \dagger | t | \dagger | t | T | t | | H | П | T | 7 | 1 | † | T | \dagger | † | † | \dashv | \dagger | 3 | T | T |
| | - Administration and Management | | Ľ | | | | | | | ╛ | ╛ | I | ╛ | ╛ | | ╛ | ᅼ | 3 | 1 | 1 | 1 | I | l | I | | | | | ╛ | ╛ | ╛ | 1 | Ī | I | I | ↥ | İ | I | 3 | I | T |
| | Future Induced Effects | | | | | | | | | I | 1 | I | J | J | J | I | 1 | I | Ι | Ţ | Ţ | I | Ι | | | | | | Ţ | J | 1 | I | I | I | I | 1 | I | I | Ι | Ţ | |
| | - Acquire more land | Ш | | Щ | Ш | L | Ш | Щ | Щ | 4 | 3 | 4 | _ | _ | _ | 4 | 4 | 4 | ╀ | \downarrow | 1 | 4 | 1 | 1_ | <u> </u> | | Ц | Щ | _ | _ļ | 4 | 4 | 4 | 4 | 4 | 4 | _ | 4 | 3 | + | \perp |
| | - Increase value of surrounding land | Н | | \vdash | Н | - | Н | Н | \sqcup | 4 | 3 | + | 4 | 4 | - | 4 | + | + | + | + | + | + | + | + | <u> </u> | | Н | Н | 4 | 4 | + | + | + | + | + | + | + | + | 3 | + | + |
| | - Promote related activities nearby | H | - | H | H | - | Н | H | Н | + | 3 | + | + | + | \dashv | 4 | + | + | + | + | + | + | + | + | - | | Н | H | | + | + | + | + | + | + | + | + | + | 3 | + | + |
| | Extension Activitites - Training / education/ capacity building | Н | | H | Н | - | H | H | \dashv | ┪ | + | + | ┪ | \dashv | \dashv | \dashv | + | + | + | + | + | + | + | + | 3 | \vdash | H | H | \dashv | \dashv | + | + | + | + | + | + | + | + | + | 3 | + |
| | | H | | Ħ | H | Т | H | Н | H | Ħ | + | \dagger | 7 | 7 | 7 | + | † | \dagger | \dagger | \dagger | t | \dagger | t | | | | H | Н | + | Ħ | 1 | \dagger | + | \dagger | \dagger | \dagger | \dashv | \dagger | t | + | + |
| — | | - | • | • | • | - | | _ | | | _ | | | | 1 | _ | _ | _ | | | _ | | | | • | _ | | _ | | | _ | | | | | _ | _ | | - | _ | |

Notes: (i) Numbers indicate magnitude of significant impacts: 3=major, 2=intermediate, 1=slight (ii) Positive numbers indicate positive impact, negative numbers indicate negative or adverse impact

| Environmental resources | Ph | vsical r | esource | 5 | Ecol | neical | esource | ·s | I. | and Us | e/Lar | dscane | . T | (| Cultural | / Socia | -Econo | omic | T | | Infra | structi | ire Serv | vices | | s | ocial S | ervice | s F | Present/f | inture P | ollutic | on. | | | Others | | \neg |
|---|----------|----------|------------------------------|----------|---------|-------------|----------|----------|-----------|--------|-------------------|------------------|------------------|--------------------|-------------|-----------------------|-----------------|----------------|--------|-------|------------------|-------------------|---------------|---------|-------------------|-----------------------|------------------|--------------|---------------|-----------------|-------------------------------|------------------|-----------------------------------|-----------------|-----------------|-------------------------|----------------------------------|----------------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | tes | | | | ects | |
| | | System | Marine and Estuarine Systems | | | ative cover | dlife | pecies | / for use | Areas | reas | Areas | eas | ources | | Employment | lle | 911 | 2 | | ement | twork | | | ication | ntution | ervices | facilities | iacinucs | on | Noise, vibration and lighting | ion | Solid/ liquid/ by products wastes | ard | ety | d Publicity | Cumulative & Synergistic Effects | ıncement |
| Type of activities | | | | Climate | | | | | | | Residential Areas | Commercial Areas | Industrial Areas | Cultural Resources | Demographic | Economic & Employment | Welfare Profile | Health Profile | Energy | Water | Waste Management | Transport Network | Education | Housing | Telecommunication | Financial Institution | Francia Services | Pacreational | Air Pollution | Water Pollution | Noise, vibrati | Visual Pollution | Solid/ liquid/ | Risk and Hazard | Health & Safety | Awareness and Publicity | Cumulative & | Positive Enhancement |
| PROGRAMME 11: Lake Victoria Major Landi | ng I | | | mpr | ove | mer | ıt Pı | rogi | _ | me | | _ | | | | | | | | | | | | | | _ | _ | 1 | | | | | | _ | | | | |
| - Landing facilities (jetty) | Ш | | ±3 | _ | 1 | 1 | <u> </u> | | 3 | | 3 | ļ | [| | | | | | ┸ | | Щ | | Ш | | | ┸ | | 1 | | | | 1 | | ļ | _ | \perp | _ | Ш |
| - Ice machine, ice storage room - Fish handling area/ Wholesale/ marketing area | Ш | | | _ | 4 | 1 | 1 | | Щ | | | | _ | | _ | 2 | | 4 | 1 | | 1 | | Щ | _ | _ | 4 | 4 | 4 | _ | | | _ | 1 | | 1 | - | 1 | ш |
| - Fish handling area/ Wholesale/ marketing area | | | | | + | - | | | | | | _ | _ | | | | 2 | _ | 4 | - | 3 | | | | _ | 4 | + | 4 | - | | | _ | 3 | _ | | | - | 2 |
| - Water supply, toilet, shower facilities | 2 | | | - | + | 1 | _ | | 2 | _ | _ | 2 | _ | | | 2 | 2 | _ | - | - | \perp | 2 | | | | _ | + | + | - | | | _ | _ | _ | | | - | 3 |
| - Access road/ parking | 2 | | | | + | - | | | 3 | | | 5 | _ | | | 3 | 2 | 2 | 4 | - | | 3 | | | _ | 4 | + | 4 | - | | | _ | _ | _ | | | , , | - 2 |
| - Capacity building/ training/ extension | | | | _ | _ | - | | | | | _ | | 4 | | | 3 | 3 | 3 | - | - | | | | | _ | _ | _ | 4 | - | | | _ | | _ | | | 3 3 | 3 |
| | \vdash | | | - | _ | | | | | | | | | | - | | | _ | + | | \vdash | | | - | _ | - | _ | + | - | | | | | | | | - | Н |
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| on F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | + | + | | | | | _ | _ | - | | | | | - | + | - | | | | | | \dashv | + | + | - | | | | | <u>_</u> | - | | | \vdash |
| | H | | | + | + | 1 | - | | | | _ | _ | - | | | - | | - | + | - | + | | | | | + | + | + | - | | | | | _ | - | | - | \vdash |
| | | | | 4 | 4 | _ | _ | | | | _ | _ | _ | | | _ | _ | _ | 4 | _ | | | | | | 4 | 4 | 4 | | | | | _ | _ | | | 4 | Щ |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - Landing facilities (jetty) | | | 3 | - [| 3 | | | | 3 | I | 1 | 3 | | I | Ī | 3 | | | | | | | | Ī | | - [| | 1 | | | | I | | | | 3 | | 1 |
| - Ice machine, ice storage room | | | | | 3 | | | | 3 | | | 3 | ı | | | | | | | | | | | | | | | | | | | | | | | | | П |
| - Fish handling area/ Wholesale/ marketing area | | | 7 | 1 | | 1 | | | 3 | | | 1 | ı | | | | | | 1 | | | | | | 7 | T | T | T | | | | 1 | 1 | 7 | | | | П |
| | Н | | \dashv | 十 | ╁ | \dagger | 1 | | Ť | 1 | _ | _ | + | | 7 | \dashv | \dashv | + | 1 | | H | | H | 7 | 1 | 十 | $^{+}$ | + | T | | | _ | 7 | \dashv | + | | | † |
| - Water supply, toilet, shower facilities - Access road/ parking | Н | | \dashv | \dashv | ╁ | + | | | | _ | - | _ | - | | - | - | | + | + | | \vdash | | H | - | \dashv | + | + | + | | | | - | 1 | + | | | + | Н |
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| - Capacity building/ training/ extension | Н | \sqcup | _ | _ | + | + | - | \vdash | Щ | _ | _ | _ | 4 | _ | _ | 4 | - | - | 1 | - | \vdash | | 2 | _ | _ | + | + | + | - | | \sqcup | _ | _ | _ | - | - |) | ш |
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| iron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Notes:

- (i) Numbers indicate magnitude of significant impacts: 3=major, 2=intermediate, 1=slight
- (ii) Positive numbers indicate positive impact, negative numbers indicate negative or adverse impact

添付資料

- 1. 調査団及び相手国側カウンターパートの構成
- 2. 現地調査日程表(第1次-第3次調査)
- 3. 面談者リスト
- 4. 収集資料リスト
- 5. 実施細則(S/W)及び実施細則協議議事録(M/M)
- 6. インセプションレポート協議議事録
- 7. インテリムレポート協議議事録
- 8. ドラフトファイナルレポート協議議事録

添付資料 1-1

添付資料 1 調査団及び相手国側カウンターパートの構成

| 担当業務 | 相手国側カウンターパート氏名 | 調査団氏名 | 調査団所属先 |
|------------------------|----------------|--------------|--------|
| 総括 | R. Mapunda | 山本 幸生 | SSC |
| 水産経済 | F. Sobo | 馬場 宏造 | SSC |
| 沿岸漁業・流通・加工 | L. Mkwizu | 飯田 一寛 | OAFIC |
| 内水面漁業・流通・加工(ビクトリア湖) | D. Pande | 佐藤 正志 | OAFIC |
| 内水面漁業・流通・加工(タンガニーカ湖、他) | R. Makenya | 藤木 暢 | OAFIC |
| 漁村社会1(内水面) | V. Mushi | B. Kyanya | OAFIC |
| 漁村社会2(沿岸) | R. Kullaya | G. Namwonja | OAFIC |
| 漁民支援制度 | I. Matemba | W. Scheffers | SSC |
| 水産施設 | - | 谷 和明 | SSC |
| 環境 | R. Mally | Tan Eng Guan | SSC |
| 援助動向・調整 | F. Sobo | 岩崎 茂 | SSC |
| 業務調整 | N. Jihulya | 新村 有紀 | SSC |

添付資料 2

第一次現地調査日程表

| 日程 | | |
|---|---|--------------------------------|
| 1/20 | 土 | 1240 Tokyo 1725 Zurich (SR169) |
| | | 2040 Zurich |
| 1/21 | 日 | ダルエスサラーム到着 2040 DSM (SR292) |
| 1/22 | 月 | JICA・大使館・大蔵省・天然資源観光省水産局表敬 |
| 1/23 | 火 | 水産局にてインセプションレポート協議 |
| 1/24 | 水 | 協議、ミニッツのサイン |
| 1/25 | 木 | 世銀、FAO、UNIDO、FINNIDA 協議 |
| 1/26 | 金 | JICA・大使館報告 |
| | | リセプション |
| 1/27 | | フィールド調査準備 |
| 1/28 | 日 | 団内打合せ |
| 1/29- | 月 | フィールド調査(ムワンザ) |
| 2/3 | 土 | データ分析 |
| 2/4 | 日 | データ分析 |
| 2/5- | 月 | フィールド調査(キゴマ、リンディ・ムトワラ) |
| 2/11- | 日 | フィールド調査(キエラ、タンガ、ムワンザ) |
| 2/15- | 木 | フィールド調査(キエラ、タンガ、ムワンザ、ムトワラ) |
| 2/17- | 土 | フィールド・レポート作成 |
| 2/21 | 水 | 水産局にて C/P とフィールド・レポート協議 |
| 2/22 | 木 | Steering Committee にて協議 |
| 2/23 | 金 | JICA・大使館報告 |
| | | 2005 DSM |
| 2/24 | 土 | 0455 London GWK (BA068) |
| *************************************** | | 1200 London HRW |
| 2/25 | 日 | 0845 Narita (BA005) |

第二次現地調査日程表

| 日程 | | 活動 |
|-------|---|---|
| 3/20 | 火 | 山本、岩崎、新村 成田出発 1240 Narita Zurich (SR169) |
| 3/21 | 水 | 2040 Zurich |
| 3/22 | 木 | 山本、岩崎、新村 ダルエスサラーム到着 0815 DSM (SR292) |
| | | JICA、天然資源省水産局表敬 |
| 3/23- | 金 | フィールド調査開始 |
| 4/1 | 日 | Kyanya、Namwonja ダルエスサラーム到着 Nairobi 0855 DSM (KQ480) |
| 4/2- | 月 | 団内打合、フィールド調査(タンガ、キゴマ) |
| 4/11 | 水 | 漁村社会経済実態把握再委託調査打合 |
| 4/16 | 月 | 山本、岩崎 ダルエスサラーム出発 1935 DSM (BA2068) |
| 4/17- | 火 | フィールド調査 |
| | | (ムワンザ、リンディ・ムトワラ、キルワ、クンズチ、ダルエスサラーム) |
| 4/23- | 月 | 再委託調査開始 |
| 5/18 | 金 | 山本 ダルエスサラーム到着 1155 DSM (BA2069) |
| 5/19- | 土 | フィールド調査(バガモヨ、キゴマ、キルワ、モロゴロ) |
| 6/3 | 日 | 佐藤、藤木、馬場、タン ダルエスサラーム到着 0730 DSM (SR292) |

| 6/4- | 月 | |
|-------|---|---|
| | | フィールド調査(ムワンザ、タンガ・パンガニ、キエラ、マフィア、ムテラ) |
| 6/14 | 木 | Namwonja ダルエスサラーム出発 DSM (KQ481) 0950 |
| 6/16 | 土 | Scheffers ダルエスサラーム到着 2225 DSM (KL571) |
| 6/17 | 日 | 飯田 ダルエスサラーム到着 0730 DSM (SR292) 団内打合 |
| 6/18 | 月 | カウンターパートミーティング |
| 6/19- | 火 | フィールド調査(ムワンザ、アルーシャ、キゴマ、タンガ・パンガニ) |
| 6/25 | 月 | 全国水産局員を対象としたワークショップの開催 |
| 6/29 | 金 | Kyanya ダルエスサラーム出発 DSM (TC750) 1600 |
| 7/2 | 月 | 谷 ダルエスサラーム到着 1155 DSM (BA2069) |
| 7/3- | 火 | フィールド調査(ムワンザ、キエラ、マフィア、リンディ・ムトワラ、ナイロビ・モン |
| | | バサ・キスム・エンテベ) |
| 7/9 | 月 | 岩崎 ダルエスサラーム到着 1155 DSM (BA2069) |
| 7/13 | 金 | 馬場、タン ダルエスサラーム出発 1935 DSM (BA2068) |
| 7/16- | 月 | レポート作成 |
| 7/20 | 金 | 団内フィールドレポート提出 |
| 7/21- | 土 | フィールド調査(ニアサ湖周辺、沿岸) |
| 7/27 | 金 | カウンターパートミーティング |
| 7/28 | 土 | 佐藤、藤木 ダルエスサラーム出発 2340 DSM (KL571) |
| 7/29 | 日 | Scheffers ダルエスサラーム出発 2340 DSM (KL567) |
| 7/30- | 月 | フィールド調査 |
| 8/4 | 日 | 岩崎 ダルエスサラーム出発 2340 DSM (KL571) |
| 8/5-6 | 月 | ダルエスサラーム魚市場業者対象ワークショップ |
| 8/8 | 木 | 天然資源省水産局、JICA、日本大使館報告 |
| 8/9 | 金 | 再委託調査ファイナルレポート受取 |
| 8/12 | 日 | 山本、飯田、谷、新村 ダルエスサラーム出発 0900 DSM (SR293) Zurich |
| 8/13 | 月 | 1400 Zurich (SR168) |
| 8/14 | 火 | 0850 Narita |

第三次現地調査日程表

| 日程 | | 活動 |
|--------|---|---|
| 10/15 | 月 | 山本、新村、谷 成田出発 1025 Narita Amsterdam (KL862) |
| | | 山本、新村 ローマ到着 18:55 Rome (KL1605) |
| 10/16 | 火 | 谷 ダルエスサラーム到着 22:25 DSM (KL571) |
| | | 山本、新村 ローマ FAO にて資料収集 |
| 10/17 | 水 | 谷 水産局表敬 |
| | | 山本、新村 ローマ FAO にてグループ協議 |
| 10/18 | 木 | 山本、新村 ローマ FAO にて専門家個別協議 |
| | | 山本、新村 ローマ出発 15:25 Rome London (BA555) |
| 10/19 | 金 | 山本、新村 ダルエスサラーム到着 11:55 DSM (BA2069) |
| | | 水産局表敬・協議 |
| 10/21 | 日 | Kyanya、Namwonja ダルエスサラーム到着 Nairobi 0915 DSM (KQ480) |
| 10/22 | 月 | JICA・大使館表敬、水産局協議、団内打合せ |
| 10/23- | 火 | 全国ワークショップ準備 |
| 10/27 | 土 | 佐藤、藤木、飯田、JICA 西崎氏 ダルエスサラーム到着 22:25 DSM (KL571) |
| 10/28 | 日 | 団内打合せ |
| | | |

添付資料3

面談者リスト

Dar es Salaam

Embassy of Japan

Mr. Keitaro Sato Ambassador
Mr. Tomohiko Taminato Second Secretary
Mr. Naoki Ito Second Secretary
Mr. Hiroyuki Kashimura Second Secretary
Dr. Nobuyuki Yasui Researcher

JICA

Mr. Sumio Aoki Resident Representative

Mr. Mitsuaki Furukawa Deputy Resident Representative (2001)

Mr. Kinomoto Deputy Resident Representative (2002 onwards)

Mr. Shinichiro Futami Assistant Resident Representative (2001)

Ms. Kaori Matsushita Assistant Resident Representative (2002 onwards)
Mr. Yuichi Sasaoka Special Advisor (Development Policy/ Planning)

Ms. Tomoko Enoki Specialist (Gender/ Poverty Alleviation)

Mr. Fabian M. Chilumba Chief Programme Officer

Ms. Deborah Suvgusia SPO

Mr. Atsushi Inoue JICA Expert, Senior Personnel Management Advisor

Dr. Akira Sugimoto JICA Expert, Capacity Building Advisor

Mr. Hiroyuki Iida JICA Expert, Technical Adviser

Ministry of Natural Resources and Tourism

Mr. Philemon L. Luhanjo Permanent Secretary, Ministry of Natural Resources and Tourism

Mr. T.F. Killenga Director of Planning and Policy, Ministry of Natural Resources and Tourism

Fisheries Division, Ministry of Natural Resources and Tourism

Mr. Thomas Maembe Director
Mr. Rafael R. Mapunda Asst. Director
Mr. Nanyaro Asst. Director
Mr. Haule Asst. Director
Mr. Sadock P. N. Kimaro Asst. Director

Ms. Valeria Mushi Senior Fisheries Officer, Fisheries Development

Mr. Gaudence L. Kalikela Senior Fisheries Officer, Surveillance

Mr. Raphael J. Makenya Senior Fisheries Officer, Quality Control and Standards

Ms. Eronica Lyimo Senior Fisheries Officer

Mr. I. Matemba Fisheries Officer, Publicity Counterpart, Institutional Building

Ms. Janet Uronu Fisheries Officer, Fisheries Legislation

Ms. Ruphina Kullaya Fisheries Officer, Quality Control and Standards

Mr. Ng'wala J. Jihulya Fisheries Officer, Development Planning

Ms. Fatma Sobo Fisheries Officer, Research, Training and Statistics

Fisheries Officer Mr. L.B. Mkuizu Ms. Rita Maly Fisheries Officer Fisheries Officer Mr. N.J. Jihulya Ms. Asha Kulumula Fisheries Officer Mr. M. Bulayi Fisheries Officer Mr. R. Mhekela Fisheries Officer Mr. D. Pande Fisheries Officer Fisheries Officer Mr. R.B. Hoza

Mr. Bakari Maige Fisheries Officer
Ms. C.A. Abdu Fisheries Officer
Ms. Lilian Bavu Fisheries Officer
Mr. A.K. Mihayo Fisheries Officer
Ms. Sebastian Fisheries Officer

Mr. Rumisha, C. K. Unit Manager/Secretary, Marine Parks and Reserves Tanzania

Mr. Amin Abdallah Fisheries Officer, Marine Parks and Reserves Tanzania

Other Divisions, Ministry of Natural Resources and Tourism

Mr. D.M.K. Kamamba Antiquities Division
Mr. E. Tammo Wildlife Division

Ministry of Finance

Mr. Prosper J. Mbena Commissioner for External Finance
Mr. R.M.Khijjah Commissioner for Policy Analysis

National Environment Management Council

Dr. M. Ngoile Director General, National Environment Management Council

President's Office

Ms. A. Mayawalla Principal Planning Officer, President's Office, Planning & Privatization

Tanzania Fisheries Research Institute (TAFIRI)

Prof. Phillipo Bwathondi
Dr. Abdillahi Ismail Chande
Ms. Jope Kulekawa
Mr. Hassan Mkifu
Mr. Shigalla Mahongo
Ms. A Mkumbo

Director General, TAFIRI
Senior Research Officer
Research Officer
Research Officer
Research Officer
Research Officer

University of Dar es Salaam

Dr. Kassim A. Kulindwa Research Fellow, Economic Research Bureau, Univ. of DSM

Dr Joseph Louis Mark Shitundu
Dr Natu El-Maamry Mwamba
Prof. Issa Kaboko Musoke
Mr William Nehemiah Mkanta
Department of statistics

Mr. Ass. Prof. S. Maghimbi Associate Professor, Sociology & Anthropology, Univ. of DSM

Dr. Yunus D. Mgaya Fisheries Biology and Aquaculture, Dept. of Zoology and & Marine biology

Dr. John F. Machiwa Aquatic Ecologist, Dept. of Zoology & Marine Biology

Institutions and Donors Countries

Mr. James Yonazi National Programme Officer, FAO/UN
Dr. Martti Eirola First Secretary, Embassy of Finland

Mr. Ladisy K. Chengula Rural Development Specialist, the World Bank

Mr. Frans van Rijn 1st Secretary, Economics Affairs, Embassy of the Kingdom of the Netherlands

Mr. P.R. Acharya Embassy of the Kingdom of the Netherlands

Ms. Ria Ketting First Secretary (Development Adviser), European Union

Mr. Felix O. Ugbor UNIDO Representative (Tanzania & Malawi)
Ms. Karin Sorensen UNIDO Programme Officer (Tanzania)

Mr. G. A. Mallya Operations Officer, Lake Victoria Environmental Management Programme

Mr. J.M.Lwande National Microsoft finance Administration

Mr. John Shea MCS Operations Specialist, SADC Monitoring Control and Surveillance of

Fisheries Activities Programme

Mr. Jim Anderson Sustainable Fisheries Through the Effective Use of Information, SADC

Mr. Patrick Musau UNDP-CBI head office DSM, assistant country director

Dr. Jinichiro Yabuta Chief Adviser, JICA/ RAD Advisory Group

Mr. Shinichi Okubo Acting Chief/ Aid Coordination Adviser JICA/ RAD Advisory Group

Mr. Yoshio Aizawa Agricultural Dev. Adviser JICA/ RAD Advisory Group

Mr. Shigeru Nakata TAIYO consultants Co. Ltd.
Mr. Shiro Hirata TAIYO consultants Co. Ltd.

Mr. Takashi Oku Representative, JETRO Dar es Salaam

Ilala Municipal

Mr. John M. Lubuva Municipal Director

Mr. Peter J.N. Bitwale IIala Municipal Planning & Coordination Officer
Mr. Philips Mwankenje IIala Municipal Natural Resources Officer

Mr. Fidelis M.D. Ntima Ilala Municipal Fisheries Officer

Mr. Msangi Fisheries officer at Banda beach fish-market

Ms. Celina M. Maongezi Kivukoni Ward executive Officer

Mr. Lameck Chotta Cooperative Officer, Planning & Coordination Dept.

Mr. James Lema Community Development Officer, Planning & Coordination Dept.

Ms. Fatuma Bwana Formal Sector Officer
Mr. Abdul Marwa Trade Marketing Officer

Mr. Anthony Andondile Engineering Officer, Works Dept.

Ms. Neema Chavalla Informal Sector Coordinator, Trade & Informal Sector Dept.

Mr. Charles Wambura Health Dept.

Mr. Kimaro Waste Management Dept.

Mr. Musika Market Master
Mr. Mwasabwite Ilala Municipal

Kinondoni Municipal

Ms. J.H. Mkwawa Kinondoni Municipal Fisheries Officer Mr. Mwakapizo Fisheries Officer, Msasani Landing Site

Temeke Municipal

Mr. Hamza Temeke Municipal Fisheries Officer

The Project for Construction of Integrated Fish Market Complex, Dar es Salaam

Mr. Hiroyuki Takakaze Resident Engineer, Nippon Koei Co. Ltd.
Mr. Yoshimi Miyazawa Managing Director, Konoike Tanzania Ltd.

Kunduchi Fisheries Institute

Mr. H. S. Mongi Principal, Kunduchi Fisheries Institute
Mr. Martin Vice Principal, Kunduchi Fisheries Institute
Mr. Martin Loth Deputy Principal, Kunduchi Fisheries Institute

Mr. Mgonbo Instructor, Fish processing

Private Company, Cooperatives and Others in Dar es Salaam

Mr. Emmanuel Marangakis General Manager, E.M., Fishing Company Ltd.
Mr. Amri Suleiman Managing Director, Community Foods Ltd.

Mr. Addy Haider Chairperson, UWAWADA
Mr. Abeid Ferej Treasurer, UWAWADA
Mr. Mwigah R. H. Secretary, UWAWADA
Mr. M.O. Lyimo Secretary, UWAWADA
Mr. Denarahan V. TANPESCA Ltd.

Mr. J.Mgassa Air Tanzania Corporation Cargo Manager
Mr. Kezia H. Mkwizu Regent Tanzania Ltd., Airfreight Manageress

Mr. Edwin Mujwahuzi Ministry of Works (Dar es slaam Roads Development Project Coordinator)

Mr. F.Bube Super Star Forwarders Co. Ltd. Fleet Coordinator

Mr. Omar Hamadi Fisher, Kunduchi Landing Site
Mr. Osman ali Maarufu Auctioneer, Kunduchi Landing Site

Mr. I. Mizunguli DAWASA Mr. Rajab J Mtoro DAWASA Mr. J.J. Malkoba NRO, RAS

Coast Region

<u>Mafia</u>

Mr. Godfrey Mokoki District Fisheries Officer, Mafia

Mr. F.O. Hrmile Mafia District Natural Resources Officer

Mr. Ismail Mutani Mafia District Fisheries Officer
Mr. Haruni Yakubu Mafia, Bweni Village Chairperson
Mr. Kereko Ramadhani SISAHAU fishing group leader
Mr. Kifimbo Twaha MUSIKAMANO fishing group leader

Mr. Makame Masiku MIKINGAMO fishery Cooperative Society Leader

Mr. Omari Juma Fisher
Mr. Mhunzi Abdallah Fisher
Mr. Jason Rubens WWF

Bagamoyo

Mr. David Kaijunga District Natural Resources Officer, Bagamoyo

Mr. January Lilungulu District Fisheries Officer, Bagamoyo Ms. Nyakiboha District Fisheries Assistant Officer

Mr. Kasim Alawi Chairperson, MAGENSANI FISHING COOPERATIVE SOCIETY

Ms. Gembei Member of executive committee, Umoja wa Ackina Mama Wakaangaji na

Wakushaji wa Samaki (= Cooperative of women for frying and drying of fish)

Mr. A. Tamimu Fisher

Mbegani Fisheries Development Center

Mr. Y.E.S. Mndeme Principal

Mr. Yahya Mgawe Head of Finance and Administration

Mr. I. Mahunda Senior Skipper and Head of Vessel Section, Nautical Science Department

Mtwara Region

Mr. Frank Mushana Natural Resources Officer for Mtwara Region
Mr. Lameck Kinyunyu Natural Resources Officer for Mtwara District

Mr. Jakob Musumba Mtwara District Fisheries Officer
Mr. John Mwaisaka Mtwara District Fisheries Officer
Mr. Lucas Mnumapili Acting District Executive Director
Mr. Yusto H.C. Ngaeje District Administrative Secretary
Ms. Julie Adkins Programme Manager, RIPS
Mr. T. K. Byarugaba Programme Officer, SWISSAID

Ms. Namnauka Secretary, SWISSAID

Mr. Monsiaple Kajimbwa Public Service Officer, RIPS

Ms. Doris Nghomange Regional Advisor Swissaid Partners, MTWARA Mr. Gray F, Nannamka Credit Officer, Swissaid Partners, MTWARA

Mr. Jamaldin M. Bashekhe Chairperson, MTWARA Umbrella Peoples Organization
Mr. Sebastiano C.C. Mwenda Treasurer, MTWARA Umbrella Peoples Organization
Ms. Angela M. Nannanka Secretary, MTWARA Umbrella Peoples Organization

Mr. Christopher H. Chisigalile Carpenter, Assistant Officer in Charge, Government Boat Yard, Mikindani.

Mr. Ghasia Zonal Chairperson Shirikisho, Naumbu Village, (Mtwara)

Mr. Hamisi Mohd Fisher

Ali Mfaume Leba Village Organising Secretary Seaweed Group

Mr. Abilahi Moh'd Member-Village govt
Mr. Hamisi Mohd Obassi Seaweed farmer/ Fisher

Mr. Mfaume Bakari Moh'd Treasurer Seaweed growing group

Mr. Zuberi Lihumba Kitenge Sec-CCM branch

Mr. Karim Bilali Hussein Chairperson Mapambano group

Mr. Omar Mohammed Tasi Chairperson Majuto
Mr. Muksin Ali Hassan C/man Hali Moja
Mr. Issa Ali Hassan Fishers-Ajuaye group
Mr. Mwalimu Nipende Jitegemee Group

Mr. Ahmed Said Hassan District Planning Officer

Mr. Selemani Musa Selemani DNRO Mr. Baptisto Nyanyembe FSO Mr. Kinyunyu DNRO

Lindi Region

Mr. Mussa Mdidi Regional Administrative Secretary, Lindi Region Mr. F.E. Nganyanyuka Regional Fisheries Adviser for the Regional Secretariat

Mr. Masasi D. M.

Mr. Omari Bakari Nguyu

Mr. Mohamed Abasu Kiwara

Ms. Mariamu Ali Mketo

District Fishery Officer, Kilwa

Somanga Village Chairperson

Council of KINJUNBI Ward

Council of KINJUNBI Ward

Mr. Mstafa Omari Mukuga Secretary of Shirikishio, Kilwa District Mr. F. K. Mchopa Acting Regional Administrative Officer Mr. S. S. Ngaweje District Natural Resources Officer

Mr. Omari Mchalaganya District Fisheries Officer Mr. Andrew Chale DNRO Lindi Rural

Mr. Rashid Swaleh DFSO

Mr. Lucian Nyumayo Chairperson CCM

Mr. Mwaisaka FSO Mr. Milanzi FSO

Mr. Ibrahim Mohd Fish Trader in Market
Mr. Masudi Nasoro Market Cell Leader

Mr. Hussein Twende Fisher

Tanga Region

Mr. Mussa Dengo Tanga Municipality Natural Resources Officer Mr. A. Mwakalukwa Regional Fishery Officer (Quality Control)

Mr. S. Makokoweka Program Coordinator of Tanga Coastal Zone Conservation and Development

Programme (TCZCDP), Principal Fisheries Officer, RAS

Mr. H. W. Karonbo
Fishery and Coastal Advisor, TCZCDP
Mr. Kessy Mvugaro
Muheza District Fishery Officer
Mr. Kashimua Chambo
Muheza District Fishery Officer

Mr. Devidi Mdoe Assistant Fishery Officer in charge of Kigombe

Mr. Kiruwasha Heri Trader, Kigombe Mr. Hemedi Athman Trader, Kigombe Mr. Athman Hussein Trader, Kigombe

Mr. Bori Mohammed Fisher
Mr. Tanzilu Ramadhan Fisher
Mr. Saleh Mwadadu Fisher

Mr. Mgeni Waziri Fisher

Mr. Salim Ibrahim Salim Fisheries Assistant, Kasela collection site

Mr. Mwajuma Chaula Food vendor Mr. Mtama Abdalla Food vendor Mr. Mwini Omari Food vendor

Mr. Chitambo D Kauta District fisheries officer, Pangani Mr. Charles Mnkondo Fisheries assistant, Pangani

Mr. Joseph Mpepo Production Manager, Processing Factory

Mr. Kisheru N.S.K. Regional Natural Resource Officer, RAS, Tanga Region

Mr. Evaristo Kalolo Tanga District Fisheries Officer
Mr. Zahoro M.S. Chomoka Fisheries Officer, Pangani
Mr. Ahomad Makame Fish monger, Tanga
Mr. Mohamed A. Kaselewenje Fish monger, Tanga

Mr. Kaimu Abdi Fisher
Mr. Evaristo Kalolo Fisher

Mr. Pala Tajili Fish monger, Kigombe Mr. Haji Mohamed Nundu Fish monger, Pangani

Dr. Eric Verheij Technical Advisor, Tanga Coastal Zone Conservation and Development

Programme (TCZCDP)

Mr. Makoloueka Project Manager, TCZCDP

Mr. Z. M. S. Chomoka, (former) Principal, Panagani Fisheries Training Centre, Pangani

Mr. Dustan Citopile Mkundi BSc. Food Science Technology, Plant Manager, SEA PRODUCTS, Tanga.

Mr. Abdalla D.o Midella Municipal Director

Mr. Salim Ibrahim salim Municipal staff-fish levy collector

Mr. Omar Hamisi Ward Representative
Mr. Ramadhan Ali Village representative

Mr. Emmanuel Mgongo Planning Officer-Coordinating Pangani TCZMP

Mr. E.F.Nganyanyuka Regional Natural resources officer
Mr. Venance Ngeleuya Tanga Town Council Town Planner

Zanzibar

Mr. Makame Salum Nassor Chief Fisheries Officer (Marketing)
Mr. Maalim Mohammed Researcher, Institute of Marine Science

Mrs. Jiddawi, Narrinman S.

Research Fellow, Institute of Marine Science, Zanzibar
Mr. Mtolera, Matern S. P.

Research Fellow, Institute of Marine Science, Zanzibar

Mr. Muhando, Christopher A. Assistant Research Fellow, Institute of Marine Science, Zanzibar.

Mwanza Region

Mr. Thomas Komba Regional Fisheries Office, LVEMP
Mr. James Wilson Fisheries Specialist, LVEMP

Dr. Hamimu Hongo Team Leader, Wet Land Management Component, LVEMP

Mrs. M. Kumbo Senior Research Officer, TAFIRI

Mr. Mundrin Kaskazi Chairperson Fish Traders Co-operative, Kirumba market

Mr. S.K. Singh Plant Manager, Tanzania Fish Processors Ltd.

Mr. Novath Manoko Chairperson, Mwaloni Market Traders Development Society (NGO)
Mr. Eiljah Lovalilo Secretary, Mwaloni Market Traders Development Society (NGO)

Mr. Johari Hussein Mkwama Fisheries Officer II
Ms. Sarah Ernest Mwasaga Fisheries Officer III

Mr. Chrisantus Kaximbaya

Mr. William Susuma

Fisheries officer, Kayenze landing site

Ward Executive Officer, Kayenze landing site

BMU Executive secretary, Kayenze landing site

Mr. Angelous Mahatane Regional Fisheries officer, Mwanza

Mr. Charles T. Rwekaza Acting Regional Fisheries officer, Mwanza

Mr. Masam Merenga Acting City Fisheries officer, Mwanza city

Mr. M. Peter Claver Managing Director, Nile Fishnet Motors Co., Ltd. Mwanza

Mr. Shamik Rajani Manager, Ukerewe Fishnet Co., Ltd. Mwanza Mr. Julius D. Baisskeli Village Chairperson, Kigangama, Magu district Wr. Elisha M. Mashala Village Secretary, Kigangama, Magu district

Mr. Mathias Kadinda Fisher, Kigangama, Magu district

Mr. Jummane Mangara
District Natural Resources officer, Magu
Mr. Winceslaus Luhasile
Acting District Fisheries officer, Magu
Mr. Mabala Sali Mbojo
District Executive Director, Magu
Mr. Julius Samwel
District Administrative Secretary, Magu

Mr. Amos Bugalama Dagaa fisher, Secretary of BMU, Nyakabojo, Magu

Ms. Teresla Linus Ngatunga

Mr. Leonard Hinkuye

Chairperson of Association for factory waste processing, Mkolani

Regional Fisheries officer (Licensing & export of fish products)

Mr. M.Marenga Fisheries officer; Mwanza City
Mr. J.Maiseri Quality control manage; Vicfish Ltd.
Mr. A.C.Luanda Urban Planner; Mwanza City

Mr. C.Kanyasu Tanperch Ltd

Mr. Massaka Senior Town Planner; Mwanza City

Mr. S.L.Kalokola Treasurer; Mwanza City
Mr. A.Makuke Secretary Governor; TAFLEC
Mr. N.Manako Director; MWADESCO
Mr. H.Jethwa Manager; Mwanza Fish Mill
Miss Modesta Socio-economist; TAFIRI

Mr. A.C.Kichemuli Consultant; Prestige International Ltd.

Mr. Mbwana Senior Operations Officer

Ms Nanai, N.A.K Officer

Mr. Novath Manoko Chairperson of MWADESO

Mr. Masatu Ngingiri UWASA Mr. Zablon Mfungo RFSO Mr. Mary Elias Mjunbe

Mr. Thabit Salim Ibanda fish dealers

Mr. Innocent Shangw'abo Sengerema District Officer

Mr. Charles Mahande Sengerema Fisheries Assistant Officer

Mr. Paul Cherehani Division Fisheries Officer at Nyakalilo fish landing site

Mr. Pantaleo Remijius Assistant Fisheries Officer
Mr. Tanu Bulyalema Village Government Member

Mr. Kalangalila Cheng'abo BMU member

Mr. Renatus Nkama Ward executive officer
Mr. R.M Muyambe CCM Chairperson

Mr. Erasto Barosha Ibanda Fishing Cooperative vice-chairperson

Mr. M. S. Marenga District Fisheries Officer, Mwanza Mr. Kalokola Acting City Director, Mwanza

Mr. Mgalula District Fisheries Officer, Magu District.

Mr. Julus Bawa Baskeli
Mr. Angelous Mahatane
Mr. Charles T. Rwekaza
Mr. Thomas Komba
Mr. Yohana L. Budeba
Mr. Nsinda Philemon

Village Chairperson, Kigangama
Regional Fisheries Officer
Acting Regional Fisheries Officer
Assistant Regional Fisheries Officer
Researcher, TAFIRI, Mwanza
Researcher, TAFIRI, Mwanza

Mr. Masam Merenga Acting City Fisheries officer, Mwanza city

Mr. M. Peter Claver Managing Director, Nile Fishnet Motors Co., Ltd. Mwanza Mr. Mpelasoka Assistant Regional Fisheries officer, Kirumba Market

Mr. Pancras Kagaluki Member of UWASA, Processors of Kayabo, Kirumba Market

Mr. Samuel John
Mr. Lucas Mazige
Boat carpenter at Kitangiri area
Mrs. Juliet Basil
Aquaculture Technician, TAFIRI
Mr. Jan H. Wanink
Dagaa Researcher from Holland
Mr. Amin Hassanali
Manager, OMEGA FISH LTD.

Mr. V.G. Kalimjuma Zonal Manager, Tanzania Meteorological Agency, Mwanza Mr. John Fungo Marketing and Commercial Manager, TRC Marine Div.

Mr. Orling P. Sijenyingi Assistant Traffic Manager, TRC Mr. Amin Mikidadi Secretary, TAFLEC, a NGO

Mr. Herbert Illembo Brewing Manager

Mr. Sebasthian Maso Sengerema District Executive Director (DED)

Mr. Charles M. Mahande Senior Assistant Fisheries Officer of Sengerema District

Mr. Lameck Mongo Geita District Fisheries Officer

Mr. Omary Kamatia Bugondo Division Fisheries Officer, Geita

Mr. Barako Konisaga Ukerewe District Commissioner

Mr. M.E.M. Bulinga Ukerewe District Executive Director (DED)

Mr. Evarist Ngowi Ukerewe District Fisheries Officer
Mr. John Masumbuko Acting DED at Ukerewe District
Mr. S.C Kaare Fisheries Officer at Ukerewe District

Mr. M.M.Rubirya Tanzania National Roads Agency (Regional Manager Muwanza)

Mr. Alfred Luanda Mwanza City Council Senior Town Planner

Mr. Kilian Maraba Village Government Chairperson at Sengerema District Chifunfu landing site

Mr. Hosea Gonza Mbilinyi Zonal Officer
Mr. H.J.M. Mongi NRO, RAS
Mr. Kauswa Phineas Fisher
Mr. Nyaruga Msafiri Fisher

Fishers in Nyakaliro Fishers in Ntama Fishers in Kijiweni Fishers in Nkome Fishers in Lukumbo

Fishers in Izunge, Bwiro island Fishers in Bugaramila, Ukara island

Nyegezi Freshwater Fisheries Training Institute

Mr. John Makene Principal, Nyegezi Fisheries Institute

Mr. R.M.Mhekel Nyegegi Fisheries Training Center (Temporary counterpart)

Mr. John Mckeney Head, Quality and Control Unit Mr. Mbilinyi Laboratory and quality control

Mr .Kikare Staff Mr. Lukanga Staff

Mr. R.Mhekela Nyegezi Fisheries Development Center

Mr. Gabriel Mbaya Head of Nautical Science Department, Tutor Navigation and Seamanship,

Nyegezi Freshwater Fisheries Institute, NFFI

Mrs. Sylvia Chirwa Tutor Fish Processing Fish Handling, Nyegezi Freshwater Fisheries Institute

Mara Region

Mr. Egidi Kilosa Regional Natural Resources & Fisheries Officer, LVEMP Task Leader

Mr. Henry Uisso Musoma Town Director

Mr. Nelson Bwogi Musoma Town Fisheries Officer

Mr. Shabani Bosa Assistant Musoma District Fisheries Officer Mr. Jackson Tillya Tarime District Natural Resources Officer Mr. Cleopas Nyankiriga Shirati Village Executive Director (VEO)

Mr. C.T Mwita Acting DED Musoma Town
Mr. A. M. Makaja Musoma District Fisheries Officer

Mr. Florence Mtaki Fisheries Assistant at Nyahusurya landing site

Mr. Z. S. Kazula Assistant Fisheries Officer

Mr. Issa Makongoro Fisher, Ten Cell Leader & BUM member

Mr. Epimack Magige Divisional Fisheries Officer

Mr. Daudi Chokero Chairperson of BMU at Bwai Landing site

Mr. Abdalla Omari Village Gov. BMU Fisher

Mr. Rhoda Elin Fish processing women group at Bwai

Mr. Benta Samuel Trader at Sota Landing site

Mr. Anthony Moira Kerubo Chairperson of BMU at Sota Landing site

Mr. David Reuben Labako District Administrative Officer Mr. Charles Marwa Fisher at Lugezi landing site

Mr. A.N. Madundo DFO
Bororo Cooperative &Kabuhara Cooperative

Jiendeleze Partnership Group

Fishers in Bwai Fishers in Sota

Kagera Region

Mr. K.E. Rushoke Regional Fisheries Officer

Mr. J. Kayungi Bukoba District Fisheries Officer/ LVEMP Task Leader Mr. Donald Shango Divisional Fisheries Officer at Bukoba rural Kemondo Bay

Ms. Monica Kishe Divisional fisheries officer at Bukoba Urban Mr. Jackson Madyaro Biharamulo District Fisheries Officer Mr. S. Ngaiza Muleba District Fisheries Officer Mr. S. Mbena Bukoba Town Fisheries Officer Mr. A.S.Jakoyango Acting Director; Kagera Region

Mrs. Nmaagi Regional Natural Resources Officer; Kagera Region

Mrs. Haigath Kitala Branch Manager; PRIDE
Mr. Murtaza Fazal Director; C-weed Corporation
Mr. Xavery Makwi Credit Manager; CRDB Bank

Mr. Ezamo S.Maponde Economist; President Office – Planning & Privatization

Mr. J.L.Madialo DfsO at Biharamulo Mr. Muchunguzi AfsO at Biharamulo

Mr. Sebastian Kato Chairperson of BMU at Nyamirembe Landing site

Mr. Ernest Kifungo Bwina fishing group/ BMU/ Chairperson

Ms. Veldiana S Mushi DED at Muleba District

Mr. Anatoli Kashasila WEO Mr. Progestus Michael VEO

Mr. Nurani Mohammed Chairperson of BMU at Ruhanga village

Mr. Chrisant Bombo Village Government Chairperson at Katunguru landing site

Mr. Julius Petro VEO

Ms. Odilia Chrisant Chairperson of KIMAWAKA women group
Mr. Musa Mugata Swiss Aid Zonal Projects Coordinator
Mr. Julius Yunzu Acting project coordinator KAEMP

Mr. Hiussein Tibenda Chairperson of BMU at Nyamkazi landing site

Mr. Euzeus Kibogo Fisher

Fishers in Kinagi Fishers in Katunguru **Tabora Region**

Mr. Clement L. Kalonga TAFIRI

Mr. Shadrack W. Yomba District Fisheries Officer

Mr. Iddi Lugilimba Fisher

Kigoma Region

Mr. Raphael J. D. Mlama Regional Administrative Secretary

Mr. John Kweku District Fisheries Officer
Mr. Tambure Swedi Fisheries Officer-Extension

Mr. Chitamwebwa Director TAFIRI

Mr. Bojang Gordiang
Mr. Ugumba Huseini
Mr. Yusuf Mwabulimbo
Mr. Ramafdhan Shaaba
Mr. Yusuf Rashid
Care taker Kigoma Boatyard
Owner NDAGA fishing boat
Daya Fishers and Traders group
Daya Fishers and Traders group
Daya Fishers and Traders group

Mr. Hassan Maguru Chairperson Fishers group, Myobozi landing site-Fisher village

Ms. Apu zacharia Chairperson women traders group, Myobozi landing site-Fisher village

Mr. Sadiki A Mkalla Village Chairperson, Myobozi landing site-Fisher village

Mr. Kassimu Sudo Warehouse Manager

Mr. Fuumba Distributor

Mr. Athiuman Mrisho Kibango Assistant Fisheries Officer Mr. Miiues I Joshi Ornament Fish Exporter

Mr. Iddi Ahmed Diver

Mr. Laweano P. Balilemusa Ornament Fish Exporter

Ms. Phillipa Basil Maganga WEO
Ms. Valentine Kabadi AfsO
Mr. Felix Isidore Kavejulu AfsO

Mr. Mathew Sylvester Member UWAKA coop at Bangwe-Katonga landing site

Mr. Diu Donko UNDP-CBI Zonal Coordinator Kigoma council & Kigoma rural

Mr. Bendict Emmanuel PRIDE TZ Kigoma branch, branch manager

Mr. Simba and others Fisher of Katonga beach

Ms. Zulwiha and others Fish processor of Katonga beach

Mr. Seifu Fisher of Kibiligi

Mr. Dadi Kusuwi Village Master of Kaseke chini Mr. Moshi Swedi Kasomo CCM charman of Kaseke chini

Mr. B. Muhaha Vice Village Master
Mr. Tanbwe Village Master of Karago

Mr. Languis Sikabue Fisher of Karago
Mr. Jumanne Haluna Kabali VEO of Mwakizega

Mr. Ali Ngunguti Station master of Kigoma Rail Station

Mr. Daru Fisher of Ujiji

Mbeya Region

Mr. Hon. Lt. Shabani Muyombo District Commissioner, Kyela Mr. Francis C. Mitii District Executive Director

Mr. A. S. Libenanga District Natural Resources and Environment Officer

Mr. Aron Mwasota District Fisheries Officer, Kyela Mr. Brown Mwang'Onda District Assistant Fisheries Officer

Mr. M. K. L. MIay

Centre Director, TAFIRI

Mr. John A. Mwambungu

Head of Research, TAFIRI

Dr. Ben P. Ngatunga Research Officer

Mr. Polisima Fisher
Mr. Seif A. Waziri Fisher

Mr. Godarin Lucas Beach Management Unit

Mama Celestina LIMI Mbeya Municipal Fisheries Officer

Mr. Solanus M.Nymbi District Executive Director
Mr. Bosco O.Nudunguru District Planning Officer; Mbeya
Mr. Aden Muaborgole Director of Cooperative Union
Mr. Leonard H.Gumbwa Mbeya District Fisheries Officer

Mrs. Agatha Lukindo Chairweman of Mshewe Primary School

Mr. Michael Kandoro The officer; Son? Prison Mr. Zedekia Mtulu Treasurer; Mbeya

Mr. Michael Mwamlima Regional Cooperative Officer
Mr. Godfrey L.Sanga Regional Natural Resources Officer

Mr. Michael Mlayi TAFIRI Director

Mr. Brown Mbinile Mwamakusa Village chairperson at Kombe sub-village Matera landing site

Mr. Nason Mwafinguru VEO

Mr. Joseph Boniface Trader at Kiwira landing site
Ms. Lucy Alfred Market Master of Kyela market
Ms. Agnes Bayo Accountant of Kyela market
Mr. L. R. Mbeca Market Master of Ngyeke market

Mr. Lutengano and others
Mr. Bahati N. Mwankili
Fisher of Kyuila Beach
Mr. Bornface Seba
Fisher of Lubaga village

Arusha Region

Mr. James Obama PRIDE Tanzania Head Office Arusha, deputy director Mr. P.D. Kitila Municipal Coop Officer, Arusha Municipal Council

Moshi Region

Mr. M.L.K. Diyamett Teacher, Moshi Cooperative College

Rukwa Region

Mr. Salum Ibrahim Kisemya
Mr. Ramadham K. Chiravi
Mr. Swale Ahmade
Mr. Sungula Selvesta
V.E.O, Mtendaji of Nkashi District
Villager of Nkashi District
Fisher of Manda kelenge
Fisher of Kipili Village

Mr. Gaubensi Nguluwe VEO of Karungu ya Mukinga Village

Dodoma Region

Mr. Peter mrema Dodoma Market revenue collector

Mr. Emmanuel Fish monger

Mr. Jerewiah V. Mnara DNRO of Dodoma District

Mr. Mathas Wanchongo Fisheries officer of Mupuapua District

Iringa Region

Mr. Bosco K. Mwaiyowela Acting VDO
Mr. Gilbert M. Mwengwa Village Master
Mr. Ally M. Rusani Village Director

Mr. Shabani Ramadhani Fisheries Officer in Migori Village

Mr. John Sumenjwaga CCM Village Chairperson

Mr. Paterson Njoworker Fisher

Morogoro Region

Dr. Manabu Tsunoda JICA expert/ Chief Adviser Project SUA Center for sustainable Rral Dev.

Dr. Minako Araki JICA expert Project SUA Center for sustainable Rral Dev.

Dr. Hiromi Yasu JICA expert Project SUA Center for sustainable Rral Dev.

Mr. Lushela Kinguluwira National Aqua-culture Centre
Mr. Mwanpulo Kinguluwira National Aqua-culture Centre
Mr. Kajitanus Kinguluwira National Aqua-culture Centre

Mr. Kajitanus Osewe District Fisheries Officer

Uganda

Mr. Patrick K. Kaganzi Finance and administration Officer, the Republic of Uganda Mr. Christpher Saazi Chairperson/ Managing director, Nile Fishing Co. Ltd.

Mr. Hajime Iwata Second Secretary, Embassy of Japan

Dr. William M. Kudoja Senior Scientist, Lake Victoria Fisheries Organization

Mr. Paul K. Wasswa Managing Director, Byansi Fisheries Co. Ltd.

Kenya

Mr. Murtaza Jamali Mrimun Fishing Tachles, fish net dealer at Monbasa

Dr. Renison Ruwa Deputy Director, Kenya Marine & Fisheries Research Institute

Mr. Charles Oduol Assistant Director of Fisheries, Ministry of Agriculture and Rural Dev.

Dr. Enock Wakwabi Deputy Director, Kenya Marine & Fisheries Research Institute

Mr. Arif Kurji Alpha Group

Mr. Karim Hassanali Director, Afro Meat Company Limited at Kisumu
Ms. Misa Kenmiya Assistant Resident Representative, JICA Kenya Office
Mr. Masaaki Miyagawa Development Program Office, JICA Kenya Office
Mr. Bernard K.Ayugu Deputy Director of Fisheries, Fisheries Department

FAO, Rome

Mr. Ulf N. Wijkstrom Chief, Fishery Planning Analyst Fishery Policy and Planning Division (FIPP)

Mr. Alain Bonzon Fishery Planning Analyst Fishery Policy and Planning Division (FIPP)

Mr. Frans Teutscher Fish Technologist, Fishery Industries Division (FIIU)

Mr. Hideaki Okada Fishery Planning Analyst Fishery Policy and Planning Division (FIPP)
Mr. Dominique Greboval Fishery Planning Analyst Fishery Policy and Planning Division (FIPP)

Mr. Ross Shotton (FIRM)

Mr. Eric Reynolds Fishery Planning Analyst Fishery Policy and Planning Division (FIPP)
Mr. Nathanael Hishamunda Fishery Planning Analyst Fishery Policy and Planning Division (FIPP)

| 10/29 | 月 | 移動 |
|---|--|---|
| 10/30- | 火 | Morogoro にて全国ワークショップ開催 |
| -11/1 | 木 | Morogoro にて全国ワークショップ開催、C/P Meeting、移動 |
| 11/2- | 金 | コ 、 リ に知木 / / ロンギ ・ナゴフ 「DOM) |
| 11/8 | 木 | フィールト調直(ムソフリ、キコマ、DSM) Scheffers ダルエスサラーム到着 2320 DSM (KL571) |
| -11/9- | 金 | フィールド調査(ムワンザ・センゲレマ、キゴマ、バガモヨ、DSM) |
| 11/10 | | Namwonja ダルエスサラーム出発 0900 DSM (KQ481) |
| 11/11 | | R場、岩崎 ダルエスサラーム到着 2320 DSM (KL571) |
| 11/12- | <u></u> 月 | フィールド調査(ムワンザ、キゴマ、ニアサ・ムベヤ・ルクワ、DSM) |
| 11/14 | 水 | 団内打合せ |
| 11/17 | <u></u> 土 | タン ダルエスサラーム到着 2320 DSM (KL571) |
| 11/18- | 日 | フィールド調査(ムワンザ、キゴマ、タンガ・パンガニ、DSM) |
| 11/19 | <u></u> 月 | Kyanya ダルエスサラーム出発 0800 DSM (TC714) |
| 11/20- | 火 | Tryallya フルエスタン 公山光 0000 DSM (TC/14) フィールド調査(ムワンザ、マフィア、キピリ、DSM) |
| 11/23 | 金 | |
| 11/23 | _ 火 | アンドラン・スリン・ム田光 0030 DSM (RL371) フィールド調査(ムワンザ・ムソマ・ブコバ、キゴマ、ウガンダ、DSM) |
| 11/24- 12/7 | | Scheffers ダルエスサラーム出発 0030 DSM (KL571) |
| | <u>金</u> | |
| 12/8 12/9 | | 岩崎、馬場、タン、佐藤、飯田 ダルエスサラーム出発 2340 DSM (KL569) オフィス片付け |
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添付資料 4

収集資料リスト

| Mbegani Fisheries Development Center National Fisheries Sector Policy and Strategy Statement National Fisheries Sector Policy and Strategy Statement Fisheries Management at Mera Dam, Tanzania Fisheries Management at Mera Dam, Tanzania Henrik Nilsson and Wetengere Kitojo, ALCOM Socio-Economics Budget Speech (Fisheries Sector & Revenue Policy) Ministry of Finance Fisheries Management and Development Fisheries Sector Keview (Provisional Draft Document FAO:SAFR) Twelfths Annual Draft Report For The Year 1992/93 Thirteenth Annual Draft Report For The Year 1992/93 Thirteenth Annual Draft Report For The Year 1994/95 Fifteenth Annual Draft Report For The Year 1995/96 Sixteenth Annual Draft Report For The Year 1995/96 Sixteenth Annual Draft Report For The Year 1995/96 Sixteenth Annual Draft Report For The Year 1996/97 Socio-economic effects on the evolution on Nile Perch Fisheries in Lake Victoria: a review CIFA Technical Paper 17 Application Form for Japan's Grand Aid (General and Fisheries In Lake Victoria: a review CIFA Technical Paper 17 Application Form for Japan's Grand Aid (General and Fisheries) For Project for Construction of Fish Quality Control and Assurance Center Nile perch-marketing success or ecological disaster? VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リプ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境調査報告書 VZ ク リブ ア連合共和国水産業投資環境では、T Nota Tanzania Nile Paper VZ ク リブ ア連合共和国水産業投資環境では、T Nota Tanzania Nile Paper VZ ク リブ ア連合共和国水産業投資環境では、T Nota Tanzania Nile Paper VZ | 題 | 出版 | 年 |
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添付資料 5

実施細則(S/W)及び実施細則協議議事録(M/M)

SCOPE OF WORK

FOR

THE MASTER PLAN STUDY ON FISHERIES DEVELOPMENT

M

THE UNITED REPUBLIC OF TANZANIA

AGREED UPON BETWEEN

MINISTRY OF NATURAL RESOURCES AND TOURISM

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

DAR ES SALAAM, OCTOBER 5, 2000

Mr. P. L Luhanjo

Permanent Secretary

Ministry of Natural Resources and Tourism

UNITED REPUBLIC OF TANZANIA

Mr. l-fisashi Kawaguchi

Team Leader

Preparatory Study Team

Japan International Cooperation Agency

JAPAN

Mr. Prosper J. Mbena

for Permanent Secretary

Ministry of Finance

UNITED REPUBLIC OF TANZANIA

I. INTRODUCTION

In response to the request of the Government of the United Republic of Tanzania (hereinafter referred to as "GOT"), the Government of Japan decided to conduct the Master Plan Study on Fisheries Development in the United Republic of Tanzania (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the GOT.

The present document sets forth the Scope of Work with regard to the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

- 1. To prepare a Master Plan for fisheries development through integrated approach of; (1) increasing income of fisherfolk, (2) improving fisheries products utilization and their marketability, (3) improvement of the fishing communities in planning, development and management and (4) conservation and effective use of natural resources, and
- 2. To carry out technology transfer to the Tanzanian counterpart personnel through on-the-job training in the course of the Study.

III. STUDYAREA

The Study area shall cover major water bodies; (1) Lake Victoria, (2) Lake Tanganyika, (3) Lake Nyasa, (4) other fresh water bodies, (5) marine territorial waters and (6) Exclusive Economic Zone.

IV. SCOPE OF THE STUDY

In order to achieve the above objectives, the Study will consist of the following Items.

- (1) To collect and analyze relevant existing data and information in the Study areas including on the following:

 (a) Existing policy and regulations concerned with the Study;
 - Fisheries Act and related regulations
 - Fisheries development strategy
 - Credit and taxation
 - Control and surveillance system
 - Quality assurance
 - Environment
 - Others

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(b) Natural conditions;

- Topography
- Meteorology
- Water resources
- Others

(c) Socio-economic conditions;

- Population
- Households
- Social structure of fishing communities
- Rural economy
- Others

(d) Fish resources and fishing production;

- Fish resources
- Fishing production
- Fishing gear and methods
- Aquaculture
- Others

(e) Fish handling, processing and distribution;

- Fish handling methods
- Fish processing methods
- Demand and supply of fish and fishery products
- Distribution system
- Cost and price
- Others

(f) Infrastructure;

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- Landing facilities
- Fish marketing and processing facilities
- Electricity and water supply facilities
- Road condition
- Others

(g) Fishers' organizations / cooperatives;

- Number of fishers, other related services and employees
- Activities of fishers' organizations / cooperatives
- Education and training
- Others

(h) Fishing community;

- Current situation of social groups
- General situation of women
- Women's participation in fishery-related activities
- Education
- Health and social welfare
- Others

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添付資料 5-3

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- (2) Initial environmental examination (IEE):
- (3) To formulate the Master Plan which will include the following:
 - (a) the improvement of;
 - (i) fishing gear and fishing methods
 - (ii) fish handling and processing -
 - (iii) fish marketing and distribution
 - (iv) fishers' organizations / cooperatives
 - (v) fisheries institutions and management system
 - (b) education and training for fishing workers: and
 - (c) evaluation and recommendation.

V. STUDYSCHEDULE

The Study will be carried out during a period of approximately sixteen (16) months, in accordance with the attached tentative work schedule (APPENDIX).

VI. REPORTS

JICA shall prepare and submit the following reports in English to the GOT:

(1) Inception Report:

Thirty (30) copies at the commencement of first field work.

(2) Interim Report:

Thirty (30) copies at the commencement of third field work.

(3) Draft Final Report:

Thirty (30) copies at the commencement of fourth field work.

The GOT will provide JICA with its comments on Draft Final Report within one (1) month after receipt of the Draft Final Report.

(4) Final Report:

Thirty (30) copies within two (2) months after receipt of the comments from the GOT on the Draft Final Report.

VII. UNDERTAKING OF THE GOVERNMENT OF THE UNITED REPUBLIC OF TANZANIA

- 1. To facilitate the smooth conduct of the Study, the GOT shall take necessary measures:
 - (1) to secure the safety of the Japanese study team;
 - (2) to permit the members of the Japanese study team to enter, leave and sojourn in the United Republic of Tanzania for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees;

/ / 添付資料 5-4

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- (3) to exempt the members of the Japanese study team from taxes, duties and other charges on equipment, machinery and other materials brought into the United Republic of Tanzania for the conduct of the Study;
- (4) to exempt the members of the Japanese study team from income tax and charges of any kind imposed on or in connection with any emoluments or allowance paid to the members of the Japanese study team for their services in connection with the implementation of the Study;
- (5) to provide necessary facilities to the Japanese study team for the remittance as well as utilization of the funds introduced into the United Republic of Tanzania from Japan in connection with the implementation of the Study;
- (6) to secure permission for entry into private properties or restricted areas for the conduct of the Study;
- (7) to secure pennission for the Japanese study team to take all data and documents including maps and photographs related to the Study out of the United Republic of Tanzania to Japan; and
- (8) to provide medical services as needed. Its expenses will be chargeable to members of the Japanese study team.
- The GOT shall bear claims, if any, arising against members of the Japanese study team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Japanese study team.
- 3. The Department of Fisheries shall act as a counterpart agency to the Japanese study team and Ministry of Natural Resources and Tourism (hereinafter referred to as "the Ministry") shall act as the coordinating body in relations with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
- 4. The Ministry shall, at its own expense, provide the Japanese study team with the following, in cooperation with other organizations concerned:
 - (1) available data and information related to the Study,
 - (2) counterpart personnel,
 - (3) suitable office space with necessary equipment in Dar es Salam, Mwanza, Kigoma and Kyela, and
 - (4) credentials or identification cards.

VIII. UNDERTAKING OF JICA

For the implementation of the Study, JICA shall take the following measures:

- (1) to dispatch, at its own expense, study teams to the United Republic of Tanzania, and
- (2) to pursue technology transfer to the United Republic of Tanzania counterpart personnel in the course of the study.

IX. OTHERS

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JICA and the Ministry shall consult with each other in respect of any matter that may arise from or in connection with the Study.

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添付資料 5-5

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TENTATIVE SCHEDULE

Months 3 14 15 6 8 9 10 11 12 13 16 The Study in Japan The Study in Tanzania Δ ∠ lc/R Reports it/r Df/R F/R

(Note)

添付資料 5-6

lc/R

: Inception Report

IT/R

: Interim Report

Df/R

: Draft Final Report

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: Comments on DF/R by the Government of Tanzania

F/R

: Final Report

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MINUTES OF THE MEETING ON SCOPE OF WORK

FOR

THE MASTER PLAN STUDY ON FISHERIES DEVELOPMENT

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THE UNITED REPUBLIC OF TANZANIA

In response to the request of the Government of the United Republic of Tanzania, the preparatory judy team headed by Mr. Hisashi Kawaguchi (hereinafter referred to as "the Team"), was sent to Tanzania by the Government of Japan through the Japan International Cooperation Agency (hereinafter referred to as "IICA"), the official agency responsible for the technical cooperation programs of the Government of Japan, from 26 September to 6 October 2000 for the purpose of discussing and confirming the Scope of Work on the Master Plan Study on Fishery Development in the United Republic of Tanzania (hereinafter referred to as "the Study").

The Team had a series of discussions with concerned authorities of the Government of the United Republic of Tanzania, represented by Mr. Thomas W. Maembe, Director of Fisheries, Fisheries Division, Ministry of Natural Resources and Tourism (hereinafter referred to as "the Tanzanian side").

Salient issues discussed and agreed upon by both sides are shown in the ANNEX as attached hereto.

DAR ES SALAAM, OCTOBER 5, 2000

Mr. P. L. Luhanjo

Permanent Secretary

Ministry of Natural Resources and Tourism

UNITED REPUBLIC OF TANZANIA

Mr. Hisashi Kawaguchi

Team Leader

. Preparatory Study Team

Japan International Cooperation Agency

JAPAN

ANNEX

1. Implementation of the Study

The Team explained the work plan of the Study of the Government of Japan to the Tanzanian side. The Tanzanian side confirmed that it fully understood the work plan and would conduct all necessary preparations and observe the undertaking.

2. Counterpart personnel

The Tanzanian side agreed to cooperate with the Japanese study team for the implementation of the Study, and assign the counterpart personnel in the following areas and to take a necessary budget measure such as traveling and subsistence allowances for the conducting the Study.

- Fishery economy
- Distribution and processing
- Infrastructure
- Aquaculture
- Socio economics / gender
- Training and extension

3. Steering Committee

Both sides agreed to establish the Steering Committee for smooth conduct of the Study. It is expected that this Committee will meet when JICA Study Team comes to explain the reports. The Permanent Secretary of Ministry of Natural Resources and Tourism will be appointed as chairman. The members of the committee will be drawn from;

- 1) Ministry of Natural Resources and Tourism Fisheries Division
- 2) Ministry of Regional Administration and Local Government
- 3) Ministry of Finance
- 4) Planning Commission, President's Office
- 5) National Environment Management Council

4. Target year

The Tanzanian side explained that it is desirable that the Master Plan period should cover approximately 10 years alread.

This Master Plan will be integrated into the fisheries sector implementation program of the "NATIONAL FISHERIES SECTOR POLICY AND STRATEGY STATEMENT".

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5. Study areas

The Tanzanian side requested the following study areas should be prioritized. (See location map)

| | REGION DISTRICT/MUNICIPAL | | SURVEY SITE | | |
|------|---------------------------|-------------------|-----------------------------------|--|--|
| | (1) Lake Victoria | | | | |
| | - (Mwanza) | Ukerewe | Ukerewe | | |
| | | Geita | Nyakalilo, Nkome Area (Nzera Bay) | | |
| | - | Mwanza | Kirumba | | |
| | - Mara | Tarime | Sota | | |
| | - | Musoma | Bwai | | |
| • | - . | Musoma | Musoma | | |
| | - Kagera | Muleba | Katunguru, Kinagi | | |
| | - - | Biharamulo | Nyamirembe | | |
| | - | Bukoba rural | Kemondo | | |
| p | (2) Lake Tangayika | | • | | |
| | - (Kigoma | Kigoma | Bangwe, Ujiji | | |
| | - Rukwa | Sumbawanga | Kipili | | |
| | (3) Lake Nyasa | • | · | | |
| | - Ruyuma | Mbinga | Lituhi | | |
| | - Mbeya | (Kyela) | Kyela | | |
| | (4) Marine Territorial W | ⁷ ater | | | |
| | - Tanga | Pangani | . Panga ni | | |
| | - | Muheza | Kigombe | | |
| | - Coast | Bagamoyo | Bagamoyo | | |
| | - Dar es Salaam | . Kinondoni | Kunduchi | | |
| | | Ilala | Banda Beach | | |
| | - Lindi | Lindi | Machinga Bay | | |
| ·)¹ | | Kilwa | Kilwa Kivinje | | |
| , | - Mtwara | Mtwara | Msimbati | | |

(Note): Survey sites in italics are collecting points

6. Study method

The team proposed the necessity of close consultation with other donors during the implementation period of the Study.

Both sides agreed that the meetings with other donors would be held during the Study period in order to take their opinions into consideration.



7. Scope of the Study

The Tanzanian side requested that this Study should consider the priority projects' design and costs. The team agreed that the Study would consider them in the process of developing the Master Plan.

8. Implementation of the field surveys

Both sides agreed that the Japanese study team would carry out the field surveys during the dry season, in consideration of better accessibility conditions to the fishing communities rather than in the rainy season.

9. Training of counterpart personnel in Japan

The Tanzanian side requested the training of counterpart personnel in Japan for effective transfer of technology in connection with the Study. The Team promised to convey its request to the Government of Japan.

10. Holding a seminar

The Tanzanian side requested the Japanese study team to hold a seminar based on the results of the study at the time of the presentation of the Draft Final Report. The Team promised to convey its request to the Government of Japan.

11. Equipment of the Study

Both sides discussed the necessary equipment for the implementation of the Study, and checked the currently available equipment in the Fisheries Department. The Tanzanian side requested the following equipment.

- Personal computers with necessary accessories
- Photocopy machines
- Facsimile machines

The Team promised to convey the request to the Government of Japan.

12. Office accommodation

Tanzanian side agreed to offer office space with necessary equipment in the Fisheries Department in Dar es salaam, Mwanza, Kigoma, and Kyela.

13. Launching of the Final Report

Tanzanian side agreed that the Final Report will be launched publicly.

14. Undertaking

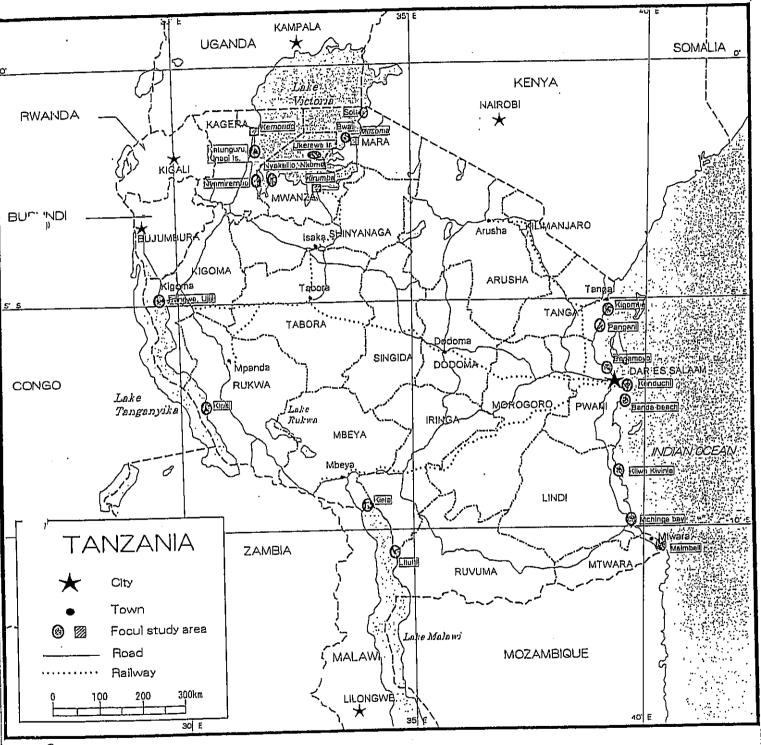
The team requested that Tanzanian side will take every possible measures to ensure an effective execution of the survey program throughout the implementation period of the Study.

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Location Map



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LIST OF PARTICIPANTS

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|-------|-------|---------|-----|
| Tanza | ากาลก | 51 | d e |

| Mr. P. L. Luhanjo | Permanent Secretary, Ministry of Natural Resources and Tourism |
|-------------------------|---|
| Mr. Prosper J. Mbena | Commissioner for External Finance, Ministry of Finance |
| Mr. E. L.M. Severre | Director of Wildlife, Ministry of Natural Resources and Tourism |
| Mr. Thomas Maembe | Director of Fisheries, Ministry of Natural Resources and Tourism |
| Mr. Sadock P. N. Kimaro | Assistant Director of Fisheries; Surveillance, Monitoring and Control |
| Mr. B. S.M. Magulwi | Senior Fisheries Officer; Fisheries Development and Planning |
| Mr. W. V. Haule | Assistant Director of Fisheries; Research, Training and Statistics |
| Mr. G.F. Nanyaro | Assistant Director of Fisheries; Quality Assurance and Standards |
| Mr. R. R. Mapunda | Assistant Director of Fisheries; Fisheries Development and Planning |
| Mr. Clement Rutahiwa | Regional Administrative Secretary, Mwanza Region |
| Mr. Angelous Mahatane | Regional Fisheries Officer; Mwanza |
| Mr. Fred Ntakabanyula | Ag. City Council Director, Mwanza |
| Mr. Enock Mlaponi | Ag. Centre Director, Tanzania Fisheries Research Institute (TAFIRI), Mwanza |
| Mṛ. J. Makene | Principal; Nyegezi Fisheries Training Centre, Mwanza |
| Mr. Y. I. Mgawe | Ag, Principal; Mbegani Fisheries Development Centre |
| Mr. Hoza Karrim | District Planning Officer; Bagamoyo District |
| Mr. Mwaseba Gidion | District Executive Director, Bagamoyo District |

Japanese Side

| Mr. Hisashi Kawaguchi | Leader o | f Mission | , .lapanese | Prepara | tory Study | Team |
|------------------------|----------|-----------|-------------|---------|------------|------|
| Mr. Yasushi Nakazato | Member, | Japanese | Preparatory | Study | Team | |
| Mr. Takafumi Toshihara | Member, | Japanese | Preparatory | Study | Team | |
| Mr. Toshio Miharu | Member, | Japanese | Preparatory | Study | Team | |
| Mr. Eisaku Hirose | Member, | Japanese | Preparatory | Study | Team | |
| Mr. Jun Yokoyama | Member, | Japanese | Preparatory | Study | Team | |

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収集資料リスト

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添付資料 5-14

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添付資料 5-16

添付資料 6

インセプションレポート協議議事録

MINUTES OF MEETING
ON
INCEPTION REPORT
FOR
THE MASTER PLAN STUDY
ON
FISHERIES DEVELOPMENT
IN
THE UNITED REPUBLIC OF TANZANIA

January 24, 2001

Mr. Philemon L. Luhanjo

Permanent Secretary

Ministry of Natural Resources and Tourism

United Republic of Tanzania

Mr. Sachio Yamamoto

Team Leader

JICA Study Team

Japan

Mr. Prosper J. Mbena

Commissioner for External Finance

Ministry of Finance

United Republic of Tanzania

Witness by:

Mr. Vakihide Katsuta

Leader

JICA Advisory Team

Japan

MINUTES OF MEETING
ON
THE INCEPTION REPORT
FOR
THE MASTER PLAN STUDY
ON
FISHERIES DEVELOPMENT
IN
THE UNITED REPUBLIC OF TANZANIA

Dar es Salaam, January 24, 2001

The Scope of Work for the Master Plan Study on Fisheries Development in the United Republic of Tanzania was agreed upon between the JICA Preparatory Study Team and the Tanzanian side on October 5, 2000. In accordance with the Scope of Work, JICA sent to the United Republic of Tanzania the Study Team headed by Mr. Sachio Yamamoto on January 21, 2001.

The Study Team submitted to the Tanzanian side 30 copies of the Inception Report in the English language on January 17, 2001. The Study Team explained the contents and procedures of the Study on January 23, 2001. Subsequently, discussions between the Tanzanian side and the Study Team were held, concluding the following points:

- (1) The Tanzanian side agreed on the contents and study procedures presented in the Inception Report.
- (2) Comments expressed by the Inception Report meeting, which are detailed in Annex-I shall be considered.

List of participants in the meeting and the list of steering committee members including counterparts are attached as Annex-II and III, respectively.

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COMMENTS BY THE INCEPTION REPORT MEETING

1. Safety Areas

It was confirmed that all survey sites are safe to be visited by the Study Team members at the time of the Inception Report meeting. However, information on safety should be updated and survey sites are to be reconsidered according to the situation.

2. Survey Locations

The Study will include Mafia Island as a survey site considering its fisheries potential in addition to those mentioned on the map of the Inception Report. Also, the Exclusive Economic Zone (EEZ) is to be involved in the survey, however kept in minimum for the potential assessment of the resource utilisation by artisanal fishers.

3. Sample Survey Site for Sub-contracted Socio-economic Survey

Sample survey site for the socio-economic survey that is to be carried out by a local consultant will consider 21 sites mentioned in the Inception Report. However, avoiding the duplication of the same type of study in these areas, and considering of efficiency and statistical effectiveness, these areas will be reviewed based on stage 1 study and finalized in the Field Report. The socio-economic survey will additionally include fish consumption survey.

4. Steering Committee

According to the contents of the Inception Report and its meeting, the Ministry of Natural Resources and Tourism has formed the steering committee and the names of members have been presented to the Study Team. The first committee meeting will be held within the stage 1 study.

5. Counterparts

Eleven counterparts, one for each Japanese Study Team member, have been assigned by the Fisheries Division including one chief counterpart. One counterpart for infrastructure will be assigned before the end of stage 1 study.

6. Donor Meeting

The Ministry of Natural Resources and Tourism will organise the donor coordination meeting in the end of stage 2 and 3 study.

7. Office Space

The Ministry of Natural Resources and Tourism has already acquired a head quarter office for the Study Team in Dar es Slaam. Other three offices in Mwanza, Kigoma and Kyela will be provided before March, 2001.

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LIST OF PARTICIPANTS IN THE INCEPTION REPORT MEETING

1. Ministry of Natural Resources and Tourism

Mr. Philemon L. Luhanjo Permanent Secretary

2. Ministry of Natural Resources and Tourism, Fisheries Division

Mr. Thomas Maembe Director

Mr. Rafael R. Mapunda Asst. Director, Fisheries Development Mr. Ng'wala J. Jihulya Fisheries Officer, Development Planning Mr. Gaudence L. Kalikela Senior Fisheries Officer, Surveillance

Ms. Fatma Sobo
Ms. Valeria Mushi
Mr. Raphael J. Makenya

Fisheries Officer, Research, Training and Statistics
Senior Fisheries Officer, Fisheries Development
Senior Fisheries Officer, Quality Control and Standards

Ms. Ruphina M. Kullaya Fisheries Officer, Quality Control and Standards

3. Ministry of Finance

Mr. Prosper J. Mbena Commissioner for External Finance

4. JICA, Tanzania

Mr. Shinichiro Futami Assistant Resident Representative

5. JICA Advisory Team

Mr. Yukihide Katsuta Leader

6. JICA Study Team

Mr. Sachio Yamamoto Team Leader

Mr. Kazumi Iida Coastal Fisheries/ Marketing/ Processing
Mr. Masashi Sato Inland Fisheries/ Marketing/ Processing 1

Ms. Yuki Niimura Coordinator

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MEMBERS OF STEERING COMMITTEE

Name
Mr. Philemon L. Luhanjo
Mr. T. Maembe
Mr. R. Mapunda
Ministry of Natural Resources and Tourism, Fisheries Division
Mr. R. Mapunda
Ministry of Natural Resources and Tourism, Fisheries Division
Ministry of Natural Resources and Tourism, Fisheries Division
Ministry of Natural Resources and Tourism, Fisheries Division
Director, Ministry of Regional Administration and Local Government
Mr. P. Mbena
Ministry of Finance
Ms. A. Mayawalla
Planning Commission, President's Office
Dr. M. Ngoille
National Environment Management Council

COUNTERPARTS

Name of Counterparts Assignment Mr. R. Mhekela Leader/ Promotion of fishing communities Ms. F. Sobo Fishery Economist Coastal Fisheries/ Marketing/ Processing Mr. L. Mkwizu Mr. R. Makenya Inland Fisheries/ Marketing/ Processing I Mr. D. Pande Inland Fisheries/ Marketing/ Processing II Ms. R. Kullava Fisheries Community Development/ Gender Analysis I Ms. V. Mushi Fisheries Community Development/ Gender Analysis II Mr. I. Matemba Institutional Building Donor's Project Coordination Mr. R. Mapunda Ms. R. Mally Environmental Impact Coordinator Mr. N. Jihulya

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添付資料7

インテリムレポート協議議事録

MINUTES OF MEETING
ON
INTERIM REPORT
FOR
THE MASTER PLAN STUDY
ON
FISHERIES DEVELOPMENT
IN
THE UNITED REPUBLIC OF TANZANIA

Dar es Salaam, 5th November 2001

Mr. Philemon L. Luhanjo

Permanent Secretary

Ministry of Natural Resources and

Tourism

United Republic of Tanzania

Mr. Sachio Yamamoto

Team Leader

JICA Study Team

Japan

Witness by:

Mr. Takayuki Nishizaki

JICA Advisory Team

Japan

添付資料 7-1

THE INTERIM REPORT FOR THE MASTER PLAN STUDY ON FISHERIES DEVELOPMENT IN THE UNITED REPUBLIC OF TANZANIA

Dar es Salaam, 5th November 2001

The Scope of Work for the Master Plan Study on Fisheries Development in The United Republic of Tanzania was agreed upon between the Japan International Cooperation Agency (hereafter referred as JICA) Preparatory Study Team and the Tanzanian side on 5th October 2000. In accordance with the Scope of Work, JICA sent the Study Team headed by Mr. Sachio Yamamoto to The United Republic of Tanzania from 21st January to 12th August 2001 for the Phase I Study.

The Study Team submitted to the Tanzanian side 30 copies of the Interim Report in English language on 30th October 2001.

The Study Team explained on the Interim Report of the Study at the National Workshop held in TANESCO Training Institute, Morogoro from 30th October to 1st November 2001. Subsequently, discussions between the Tanzanian counterparts and the Study Team were held on 1st November 2001 concluding the meeting with the following points:

- (1) The Tanzanian side basically agreed on the contents and study procedures presented in the Interim Report.
- (2) Comments from the counterparts meeting for the Interim Report, which are detailed in Annex-I shall be considered.

List of participants in the counterparts meeting is attached as Annex-II.

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COMMENTS BY THE COUNTERPARTS MEETING FOR THE INTERIM REPORT

1. The concepts of the Master Plan

- a) In the Interim Report, there are three fisheries development concepts and one concept for implementation. Addition of one more concept 'Sustainable utilisation of fish resources', which is agreed by both parties.
- b) One of the concepts, "Promotion of fish export" is changed into "Sustainable development of fish export", considering the importance of the sustainability of fish export than its quantitative increase and will be applied in the Master Plan.
- c) Former "Concept for implementation" shall be changed into "Better administration and management".

2. Small water bodies

For small water bodies, as one of the zonal categories, development strategies shall be provided in the Master Plan along with the other four major water bodies.

3. Workshop proceedings

What has been discussed in the National Workshop will be compiled into the proceedings. The lessons learnt from the National Workshop on its process shall be recorded as recommendations for the next workshop.

4. Priority projects

Out of project ideas proposed in the Workshop, the Study Team will carry out project designing and cost estimation for a certain number of projects with economic and technical evaluation.

5. Donor meeting

The Ministry of Natural Resources and Tourism will organize the donor coordination meeting in the end of stage 3 Study.

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添付資料 7-3

LIST OF PARTICIPANTS FOR THE COUNTERPARTS MEETING

Ministry of Natural Resources and Tourism, Fisheries Division

Mr. Rafael R. Mapunda Asst. Director, Fisheries Development

Mr. Ng'wala J. Jihulya Fisheries Officer, Fisheries Planning

Ms. Fatma A. Sobo Fisheries Officer, Statistics

Ms. Valeria E. Mushi Senior Fisheries Officer, Aquaculture

Mr. Raphael J. Makenya Senior Fisheries Officer, Quality Control and Standards

Ms. Ruphina M. Kullaya Fisheries Officer, Quality Control and Standards

Mr. Ramadhan M. Mhekela Senior Fisheries Officer, Nyegezi Freshwater Fisheries Training

Institute

Mr. Deogratius M. Pande Fisheries Officer, Quality Control and Standards, Nyegezi

Mr. Kiyola O. Shindika Senior Fisheries Officer, Statistics

Ms. Rita J. Maly Fisheries Officer, Aquaculture

Mr. Ivishai M. Matemba Senior Fisheries Officer, Publicity

JICA Study Team

Mr. Sachio Yamamoto Team Leader

Mr. Kazumi Iida Coastal Fisheries/ Marketing/ Processing

Mr. Masashi Sato Inland Fisheries/ Marketing/ Processing 1

Mr. Toru Fujiki Inland Fisheries/ Marketing/ Processing 2

Mr. Kazuaki Tani Infrastructure

Ms. Yuki Niimura Coordinator

JICA Advisory Team

Mr. Takayuki Nishizaki Coordinator, Japan International Cooperation Agency, Tokyo

Tokyo

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添付資料 7-4

添付資料8

ドラフト ファイナルレポート 協議議事録 MINUTES OF MEETING

ON

DRAFT FINAL REPORT

FOR

THE MASTER PLAN STUDY

ON

FISHERIES DEVELOPMENT

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THE UNITED REPUBLIC OF TANZANIA

Dar es Salaam, 25th April 2002

Mr. Philemon L. Luhanjo

Permanent Secretary

Ministry of Natural Resources and

Tourism

United Republic of Tanzania

Mr. Sachio Yamamoto

Team Leader

JICA Study Team

Japan

Witness by:

Mr. Takayuki Nishizaki

JICA Advisory Team

Japan

添付資料 8-1

THE DRAFT FINAL REPORT FOR THE MASTER PLAN STUDY ON FISHERIES DEVELOPMENT IN THE UNITED REPUBLIC OF TANZANIA

Dar es Salaam, 25th April 2002

The Scope of Work for the Master Plan Study on Fisheries Development in The United Republic of Tanzania was agreed upon between the Japan International Cooperation Agency (hereafter referred as JICA) Preparatory Study Team and the Tanzanian side on 5th October 2000. In accordance with the Scope of Work, JICA sent the Study Team headed by Mr. Sachio Yamamoto to The United Republic of Tanzania from 21st January 2001 to 28th April 2002.

The Study Team submitted to the Tanzanian side 30 copies of the Draft Final Report in English on 16th April 2002.

The Study Team explained the Draft Final Report of the Study at the Steering Committee on 25th April 2002. Subsequently, discussions between the Tanzanian side and the Study Team were held, concluding the following points:

- (1) The Tanzanian side basically agreed on the contents and study procedures presented in the Draft Final Report.
- (2) Comments expressed by the Tanzanian side for the Draft Final Report, which are detailed in Annex-I shall be considered.

List of participants in the Steering Committee is attached as Annex-II.

COMMENTS BY THE STEERING COMMITTEE FOR THE DRAFT FINAL REPORT

- 1. The recommendations presented by the stakeholders during the Technology Transfer Seminar held in Dar es Salaam on 18th and 19th April 2002 will be reviewed by both Fisheries Division and the Study Team. Subsequently, it will be compiled into the Final Report.
- 2. The Ministry of Natural Resources and Tourism through Fisheries Division will present the comments on the Draft Final Report, if there is any, to JICA Tanzania office before 6th May 2002 which will be forwarded to the Study Team and incorporated in the Final Report.
- 3. In order to avoid the national projects inclining too heavily towards the Lake Victoria, the Master Plan will consider the distribution of pilot areas for priority programmes from the Lake Victoria to other areas.

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