|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Annex 24: Logframe of a theoretical Sub-project Model**  Name of subproject  Ecosystem-based Adaptation in selected Coastal Areas of Lindi District | | Project no. | | |
| Country/Region  Tanzania | | Logframe compiled on  23.09.2019 | | |
|  | | **Indicators[[1]](#footnote-2)** | | **Means of Verification** | **Assumptions** | |
| **Outcome of Sub-Project**  *Ecosystem services in select coastal areas of Lindi District are enhanced and contribute to reducing climate change-related risks for vulnerable coastal communities* | | *Indicator 1: on increased resilience and enhanced livelihoods of the most vulnerable communities:*  *Number of males and females benefiting from the adoption of diversified, climate resilient livelihood options (including fisheries, aquaculture, tourism, etc.) and enhanced access to improved ecosystem services as food or water security.*  Base value (01/2021): 0  Target value (12/2024): 10,000 men, 10,000 women, direct beneficiaries (estimate; tbc at mid-term review)  *Indicator 2 on Improved resilience of ecosystems and ecosystem services:*  *Coverage/ scale of ecosystems protected and strengthened in response to climate change with an improved management effectiveness*  Base value (01/2021):  For newly protected ecoystems: 0 ha.  For ecosystems under management: 80,000 ha established as MPA and 20,000 ha mangrove forest reserve, current average METT value of 55 (2019)  Target value (12/2024): total of 110,000 ha of coastal and marine ecosystems (mangroves, coral reefs, seagrass) under protection and more effective management, out of which are  (a) new protected areas: 10,000 ha and  (b) already established MPA (80,000 ha): Target METT value of 70  (c) Mangrove forest reserve (20,000 ha): Target METT value of 70 | | Household Surveys,  Monitoring Reports from BAF; Mid-term review and final  Household surveys, project progress reports  METT evaluation reports, project progress reports;  Mapping of areas, legal demarcation of new areas / government gazette, surveys, photographs, | **Assumptions / Risks regarding programme objective**   * Marine protection and sustainable use of marine resources remains a strategic priority on the political agenda of partner countries * Tanzania Government is willing and able to provide sufficient human and financial resources * Government is capable and willing to sanction non-compliance with regulatory frameworks for protection and sustainable use of coastal ecosystems * No crisis-induced migration of people in Lindi District which negatively affects coastal areas | |
| **Outputs** | |  | |  | | |
| *Output 1:*  *Improved management of coastal ecosystems in selected parts of Lindi District* | | Indicator 1.1  *Legal establishment of new Sudi MPA*  Base value: 0 ha new protected area in Sudi area.  Target value: Documentation of designation for new Sudi MPA (10,000 ha) is finalized by 10/2023 and official gazettement completed by EoP. | | Mapping of areas, legal demarcation documents, Management Effectiveness Tracking Tool (METT) documentation.  Annual Progress reports | **Assumptions / Risks regarding outputs**   * Enforcement of rules and regulations for sustainable management by relevant government authorities * No major natural disasters | |
|  | | *Indicator 1.2:*  Revision of management plans for 80,000 ha of two existing MPA and 20,000 ha of mangrove forest reserve in participation with local communities. Developed plans will adequately reflect ecosystem-based adaptation and climate change mitigation aspects and provide a detailed account of EbA outputs and impacts and a rough estimate of carbon sequestration impacts.  Base value: ---  Target value: Climate-sensitive management plans for two existing MPA as well as for one Mangrove Forest Reserve developed and at least two of them are Government approved by EoP (12/2024). Actual management of PAs is carried out according to approved plans. | |
|  | | *Indicator 1.3:*  *Establishment of Collaborative fisheries management areas (CFMAs)*  Base value: 0  Target value: 4 CFMAs established mid-term and 10 by EoP. | |  |
|  | | *Indicator 1.4:*  *Number of initiatives to create sustainable employment opportunities and/ or increase value added in supply chains of marine and coastal resources related activities.*  Base value: 0  Target value: 5 different sustainable livelihoods initiatives (promotion of improved/sustainable fisheries, improved storage and primary processing of fish, ecotourism development, conservation agriculture, crab fattening) targeting at least 2,500 households, are under implementation by EoP. | |  |
|  | | *Indicator 1.5:*  *Increase in number and proportion of women in leadership positions of fisheries or MPA management and number of woman with increased economic empowerment*  Base value: 5% of leadership positions of all community-based and formal institutions at village level taken up by women  Target value: 30% | | *Village PRA surveys,*  *Annual reports* |
| *Output 2:*  *Mangrove Forest Reserve rehabilitated and sustainably managed* | | *Indicator 2.1:*  *Area of mangroves rehabilitated/restored*  Base value: out of 20,000 ha mangrove reserve: 3000 ha badly degraded (crown cover <40%, stocking density <1000 trees / ha) and 250 ha completely destroyed.  Target value: by EoP (12/2024): 250 ha barren area reforested, survival rate >80%, 3,000 ha under rehabilitation, stocking density >1750 trees/saplings per ha.  *Indicator 2.2:*  *Cases of illicit mangrove cutting reduced*  Base value: 123 reported cases in 2018  Target value: 50 cases mid-term (12/2022) and 30 cases by EoP (12/2024)  *Indicator 2.3:*  *Joint forest management (JFM[[2]](#footnote-3)) scheme for mangrove forest reserve developed and under implementation*  Base value: JFM guideline drafted, but not approved  Target value: Framework for JFM approved mid-term (12/2022) and implementation initiated by EoP (12/2024) | | Mapping of areas, surveys/random sampling of rehabilitated ecosystems, photographs.  Annual Reports |
| *Output 3:*  *Enhanced knowledge, expertise and capacity of relevant national agencies to use Ecosystem-based Adaptation (EbA) approaches for a climate-resilient coastal zone management* | | *Indicator 3.1 :*  *Lessons learned / best practices are documented and published in renowned national and regional media*  Base value: 0 publications  Target value: 2 major articles published  *Indicator 3.2 :*  *Documented lessons learned / best practices are considered during planned revision of the national strategy for sustainable climate-resilient coastal management and a National Round Table for sustainable mangrove management established*  Base value: no  Target value: yes: experiences well reflected in revised strategy, round table established. | | Reports, publications and proceedings of trainings and conferences.  New draft national strategy  Annual Reports |
| **Activities**  *Ad Output 1:*   * Establishment of one new PA, including * Collection and analysis of environmental socio-economic data; * Legal survey of boundary * support to official gazettement (drafting of pertinent law), * drafting of PA management plan; * physical demarcation of new MPA through buoys * initial investments (one boat and other equipment) for MPA Administration, * Strengthening of two existing MPAs, including * Additional collection and analysis of environmental socio-economic data; * Physical demarcation of MPA, * Revision of management plans with emphasis on EbA * Investments as per revised management plans: boats, law enforcement equipment, field equipment, office equipment * Facilitation of co-management agree-ments for MPAs with fisheries communities * Investments for reduction of post-harvest losses and primary processing of fish. * Promotion of sustainable fisheries management * Measures to reduce physical damage to coastal and marine ecosystems: * Mooring buoys for minimizing damage of coral reefs by anchors, * Demarcation and signalling of sensitive ecosystems/habitats, * Participatory land use planning for improved protection of coastal ecosystems from damaging human impacts. * Measures to reduce pressure and land-based stressors on coastal and marine ecosystems (in and outside protected areas), e.g.: * Promotion of fuel wood saving stoves, * Introduction of conservation agriculture (training, farm implements) * Initiatives for alternative employment opportu-nities, notably crab fattening in mangrove areas (training, seed-money for investments)   *Ad Output 2:*   * Mapping and planning of mangrove rehabilitation works * Support to the establishment of community nurseries (training, initial investments, technical and managerial support) * Reforestation of 250 ha barren mangrove land, * Rehabilitation of 3,000 ha badly degraded mangrove sites (assisted natural regeneration *cum* gap planting) * Training of community members in mangrove rehabilitation measures * Monitoring of reforestation and rehabilitation sites, beating up as per requirement * Support to patrolling of mangrove forest (equipment) * Promotion of guidelines for Joint Forest Management of mangrove reserve * Lobbying for approval of guideline * organizational and managerial support and capacity development for JFM groups * Implementation of sustainable utilization schemes for charcoal and pole production   *Ad Output 3:*   * Organization of one national workshop on EbA approaches for climate-resilient coastal zone management * Awareness raising and capacity building of district and national agencies on the relevance and options of using EbA measures for climate-resilient coastal zone management * Capacity building of national / district agencies on climate risk assessment and how to include EbA measures in climate-resilient coastal zone management (instruments, methodologies, incentive schemes, etc.) * Participation and active contribution towards regional exchange of experiences and lessons learnt * Implementation of measures for empowerment of women (support to women groups, credit and saving groups composed of female fish traders, etc) | | *Not applicable* | | *not applicable* |

1. Note that indicators as applied to project areas/marine protected areas are only applicable to project areas/MPAs where a BAF project has been active for more than 3 years. [↑](#footnote-ref-2)
2. JFM relates to the joint management of State Forests by Forest Department with adjoining communities [↑](#footnote-ref-3)