**Sathyamangalam CA Monitoring Plan**

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|  | **Threat** | **Driver** | **Action** | **Outcome** |
| **Element 1** | Destructive methods of NTFP collection leading to species loss | * Destructive methods of NTFP harvest * Increased demand for forest produce | Higher price for non destructive harvested NTFP  Local employment opportunities for women based on NTFP and agri produce increases. | Objective 1: Conserve 54000 ha of STR through enhancing sustainable NTFP collection practices |
| **Target** | Compliance to sustainable harvesting NTFP protocols | Incentives for NTFP harvesters who comply to sustainable harvest protocols | At least 50 NTFP harvesters in the six villagers are following NTFP protocols  At least one local procurement center established  At least 100 women employed seasonally in value addition centers | Increase in household income from value addition  Protection and improvement in population of the NTFP species  Increase in number of women employed/days of employment |
| **Indicators** | # of people practicing unsustainable NTFP harvesting increases/ continues | Increase in # of people adopting non destructive harvest of NTFP | 50 NTFP harvesters practicing good harvesting practices  6 trainings for sustainable NTFP harvest is held  100 NTFP harvesters are trained and receive certificates  100 women employed seasonally | 30% increase in income  10% increase in population of the NTFP species  30% increase in women employment |
| **Data collection**  **How**  **Frequency**  **Whom** | * NTFP monitoring plots –20X20m and 1 ha plots * Transects and point sampling of honey cliffs and trees * Procurement data of Aadhimalai * Barefoot Ecology Data on habitat quality   Regular, Bi annual (monsoon and post monsoon), Pre and Post harvest  Barefoot ecologists, KF, Aadhimalai | * Annual report * Monitoring plots reports * Procurement data * NTFP collection zone maps * Data from Barefoot ecologists monitoring * Minutes of meeting with harvesters   Regular, Bi annual, Pre and Post harvest | * Field observations * Barefoot ecology monitoring * Monitoring reports * Procurement Data – Aadhimalai | * Vegetation monitoring in the established plots * Field observations * Barefoot ecology survey * Monitoring reports * Procurement Data – Aadhimalai * Mapping of NTFP collection zones |

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|  | **Threat** | **Driver** | **Action** | **Outcome** |
| **Element 1** | * Heavy use of agro-chemical and fertilizers that have a negative impact on forest habitat and biodiversity * Agricultural Land degradation often leading to change of land use for e.g. monoculture plantation and resorts | * Low community awareness on sustainable agriculture * Assured income and markets for agro-chemical and fertilizers dependent produce | Providing bio inputs, markets and training on ecologically friendly farming practices (PGS) and monitoring to promote organic farming | Objective 2: Enhance ecologically friendly agricultural practices for 6 villages |
| **Target** | Compliance to ecologically friendly farming practices | * Trainings on ecologically friendly farming practices * Subsidies on bio-inputs * Buy back guarantee from Aadhimalai | At least 50 farmers in the six villagers have adopted ecologically friendly practices (PGS)  Bio-input store set-up  At least 50 farmers accessing bio input store | Increase in number of farmers practicing ecologically friendly farming |
| **Indicators** | # of farmers following ecologically friendly farming practices | Increase in # of farmers adopting ecologically friendly farming practices  Ecological farms have higher insect and pollinator diversity | 50 farmers practicing ecologically friendly farming  Bio input store set up  50 of farmers certified by PGS  Insect diversity of chemical and ecological farms undertaken | 30%ncrease in land under organic cultivation  25% increased income from bio-input store  Ecological farms have higher pollinator and insect diversity |
| **Data collection**  **How**  **Frequency**  **Whom** | * PGS training * PGS monitoring * Bio-input store data * Minutes of meeting of PGS farmer groups * Procurement data of Aadhimalai * Water and soil monitoring * Pollinator and Insect diversity measured   Regular  Barefoot ecologists, KF, Aadhimalai | * Annual report * PGS training report * PGS monitoring report * KF review report of PGS farmers groups * Procurement data * Land under organic farming maps * Water and Soil monitoring report * Minutes of meeting of PGS farmer groups   Regular | * Field observations * PGS training report * PGS Monitoring report * Procurement Data – Aadhimalai * Water and Soil monitoring data | * PGS training report * PGS monitoring report * KF review report of PGS farmers groups * Procurement data * Land under organic farming maps * Water and Soil monitoring report * Minutes of meeting of PGS farmer groups |

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|  | **Threat** | **Driver** | **Action** | **Outcome** |
| **Element 1** | * Increased habitat pressure due to fuel wood collection and livestock grazing * Unplanned grazing practises within STR * Spread of diseases between livestock and ungulates | * No access to fuel efficient stoves * No or low adherence to the livestock grazing rotation plans * Land for grazing is limited * Fodder production * Traditional practices * Tiger reserve is new * Ancestral domains | To reduce forest dependence for fuel wood collection and to explore alternative fuel wood source  To reduce dependence on forests for livestock grazing | Objective 3: To reduce the biotic pressure on the natural habitat  Objective 4: To address forest degradation and wildlife- livestock disease spread due to unplanned grazing practices within STR |
| **Target** | Compliance to reduced fuel wood collection and use of alternative fuel wood source  Compliance to use the fodder bank and joint herding | * Nurseries for fuel wood and fodder species training for para-vets * Fodder bank set-up * Joint herding * Vaccinations scheduled | At least 50% HH using alternative fuel wood source  Nursery set-up in each village  At least 50% HH use the fodder bank and compliance to joint herding  Para-vets trained in each village  Animals vaccinated | Increase in HH using alternative fuel wood source that would reduce pressure on forest  Increase in HH using fodder bank  Reduced incidents of livestock depredation through joint herding |
| **Indicators** | # of HH using alternative fuel wood source  # of HH using fodder bank, joint herding and timely vaccination | Increase in # of HH adopting alternative fuel wood source  Increase in # of HH using fodder bank and joint herding practice | # HH using alternative fuel wood source  Nursery enterprise model set-up in ach village  # HH using fodder bank  # Para vets trained  # Animals vaccinated  #HH in joint herding practice | % HH using alternative fuel wood source  % increased income from nurseries through seed and sapling purchase  % reduction grazing pressure  Reduced livestock depredation  Reduction of Zoonotic disease transmission |
| **Data collection**  **How**  **Frequency**  **Whom** | * Baseline survey on fuel wood and grazing dependence on forests * Permanent NTFP monitoring plots – 1ha * Permanent NTFP monitoring plots 20X20m * Mapping fuel wood and livestock grazing zones * Para vet trainings * Vaccination schedule * Land allocated for fodder cultivation * Joint herding schedule   Regular  Barefoot ecologists, KF, external resource personnel | * Annual report * Monitoring report * Survey report * Report on alternative fuel wood use * Maps of fuel wood collection and livestock grazing zones * Para-vet training reports * Vaccination reports * Fodder bank utilisation report * Joint herding schedule   Regular | * Field observations * Monitoring report * Survey report * Mapping of Forest zones used for fuel wood collection and livestock grazing * Data on the vaccination, fodder bank utilisation | * Field observations * Monitoring report * Survey report * Report on alternative fuel wood use * Mapping of Forest zones used for fuel wood collection and livestock grazing * Para-vet training reports * Vaccination reports * Fodder bank utilisation report * Joint herding schedule |