**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 NTFPLocal 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 protocolsAt least one local procurement center establishedAt least 100 women employed seasonally in value addition centers | Increase in household income from value additionProtection and improvement in population of the NTFP speciesIncrease 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 practices6 trainings for sustainable NTFP harvest is held100 NTFP harvesters are trained and receive certificates100 women employed seasonally | 30% increase in income10% increase in population of the NTFP species30% 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 harvestBarefoot 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-upAt 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 practicesEcological farms have higher insect and pollinator diversity | 50 farmers practicing ecologically friendly farmingBio input store set up50 of farmers certified by PGSInsect diversity of chemical and ecological farms undertaken | 30%ncrease in land under organic cultivation25% increased income from bio-input storeEcological 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

RegularBarefoot 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 sourceTo reduce dependence on forests for livestock grazing | Objective 3: To reduce the biotic pressure on the natural habitatObjective 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 sourceCompliance 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 sourceNursery set-up in each village At least 50% HH use the fodder bank and compliance to joint herdingPara-vets trained in each villageAnimals vaccinated | Increase in HH using alternative fuel wood source that would reduce pressure on forestIncrease 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 sourceIncrease in # of HH using fodder bank and joint herding practice | # HH using alternative fuel wood sourceNursery 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

RegularBarefoot 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
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