

Annex 11 Monitoring and evaluation plans

Monitoring					
Programme/ Projects Results	Data/Source	Collection Tool	Frequency	Indicator	Indicative Budget
MRA4 Forestry and land use	Ex-Ante Carbon balance Tool (Ex-ACT) and shapefiles of intervened areas from CONAFOR MRV system	Government data/records	Baseline, Mid and final Evaluations	Core 1: GHG emissions reduced, avoided or removed/sequestered	No additional costs- current CONAFOR system established
ARA 1 Most vulnerable people and communities	Household surveys: , baseline and two external evaluations	Survey/questionnaire	Baseline, Mid and final Evaluations	Core 2: Direct and indirect beneficiaries reached	M&E Specialist (USD 136.710), Baseline & Final Evaluation (USD 300.000), Mid-Term Review Evaluation (USD 58.000), Outcome Surveys (USD 150.000), Technical consultancies to support M&E (USD 715,255)
ARA 2 Health, well-being, food and water security	Household survey:, baseline and two external evaluations	Survey/questionnaire	Baseline, Mid and final Evaluations	Supplementary 2.2: Beneficiaries (female/male) with improved food security	
ARA 2 Health, well-being, food and water security	Household survey: baseline and two external evaluations	Survey/questionnaire	Baseline, Mid and final Evaluations	Supplementary 2.4: Beneficiaries (female/male) covered by new or improved early warning systems	
ARA 4 Ecosystems and ecosystem services	CONAFOR's Geospatial and Integrated Forest Incentive Information System (Sistema de Información Integrado de los Apoyos de la CONAFOR SIIAC) with GIS	Government data/records	Baseline, and annual report from SIIAC	Core 4: Hectares of natural resources brought under improved low-emission and/or climate-resilient management practice	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710),
Outcome 1: Government programs and community development plans integrate climate change criteria for attribution of supports	Approved plans by SubBasin and Ethnic Committees	Government data/records	Annual report	Number of approved participatory Basin, Sub-basins and ethnic areas territorial plans that incorporate climate change criteria and involvement of more than one federal institutions	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710),
Output 1.1 Mechanisms for intersectoral coordination are strengthened to	Official documents approved by corresponding jurisdictions	Government data/records	Annual report	Number of new laws, regulations, policies or existing strategies (or new proposals to those	No additional costs- current CONAFOR system established, M&E

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increase the technical and organizational capacities of small producers and facilitate synergies with the different levels of government and private initiative				responsible for formulating the policies for their approval, ratification or modification)	Specialist (USD 136.710)
	Official documents approved by corresponding jurisdictions	Government data/records	Annual Report	Percentage of new laws, regulations, policies or strategies existing or proposals that incorporate affirmative action to improve women participation in production of the value chains	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710)
Output 1.2 Participatory multiannual investment plans within prioritized basin, sub-basins and ethnic areas integrating mitigation instruments and adaptation to climate change	Household survey: baseline and two external evaluations	Survey/questionnaire	Baseline, and annual report from SIIAC	Percentage of Households members that can influence the decision-making of local authorities and service providers supported by the project	Baseline & Final Evaluation (USD 300.000), Mid-Term Review Evaluation (USD 58.000), Outcome Surveys (USD 150.000) Technical consultancies to support M&E (USD 715,255)
	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC)	Government data/records	Baseline, and annual report from SIIAC	Percentage of women population participating in updating the multiannual investment plans	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710)
Output 1.3 Strengthened capacities of local actors for climate change adaptation, resilience, and inclusiveness	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC)	Government data/records	Annual Report from SIIAC	Number of beneficiaries incorporated in Brigades that strengthen the local capacity to improve climate change adaptation, resilience, and inclusiveness	M&E Specialist (USD 136.710) Activity 1.3.2 CONAFOR, Technical consultancies to support M&E (USD 715,255)
Outcome 2. Forest landscapes are sustainably managed and better adapted to climate change for the provision of environmental	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC) and MRV-REDD information	Government data/records	Baseline, Mid and final Evaluations (MRV)	Environmental recovery areas with an increase in the Normalized Difference Vegetation Index (NDVI) [Number of hectares]	Baseline & final Evaluation (USD 300.000), Mid-Term Review Evaluation (USD 58.000) MRV System (USD 762.420),

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services and increase livelihood resilience.	Household survey: baseline and two external evaluations	Survey/questionnaire	Baseline, Mid and final Evaluations	Percentage of Households that report having achieved an increase in production	Baseline & Final Evaluation (USD 300.000), Mid-Term Review Evaluation (USD 58.000), Outcome Surveys (USD 150.000)
Output 2.1 Agrarian communities conserve, restore and sustainably use forest landscape based multiannual investment plans through payment of environmental services (PES)	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC)	Government data/records	Annual report	Hectares of land managed under climate resilience criteria/aspect/approach	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710)
				Groups that receive support to manage sustainably natural resources and related climate risks	
				Percentage of indigenous communities that of land managed under climate resilience criteria/aspect/approach	
Output 2.2 The productive systems of Agrarian Communities are strengthened and better adapted to climate change and variability	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC) and Household survey for qualitative information	Government data/records	Annual report	People trained on production practices and/or technologies	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710)
Output 2.3: Participation of Agrarian Communities and Producer Organizations in value chains of forest and agroforestry products is strengthened and their livelihood resilience improved	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC)	Government data/records	Annual report	Number of supported organizations and AC	M&E Specialist (USD 136.710) implementation of Community Forest Monitoring (USD 2.518.369)
	Household survey: baseline and two external evaluations	Survey/questionnaire	Baseline, Mid and final Evaluations	Percentage of women that receive additional incomes either from transformation or commercialization	Baseline & Final Evaluation (USD 300.000), Mid-Term Review Evaluation (USD 58.000), Outcome

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				from supported value chains	Surveys (USD 150.000)
				Supported technologies and work practices that reduce the workload of women	
	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC)	Government data/records	Annual report	Number of both organizations and AC that access new financial services	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710)
Outcome 3: The producers, inhabitants and authorities of the Balsas Basin have timely and relevant climate information for climate risk management, disaster prevention and knowledge management	Household survey: baseline and two external evaluations	Survey/questionnaire	Baseline, Mid and final Evaluations	Members of producers, inhabitants and authorities that use the systems	Baseline & Final Evaluation (USD 300.000), Mid-Term Review Evaluation (USD 58.000), Outcome Surveys (USD 150.000)
Output 3.1: Climate-hazards-related early warning and monitoring systems supported	Household survey: baseline and two external evaluations	Survey/questionnaire	Baseline, Mid, and final Evaluations	Num. of Local authorities, beneficiaries and institutions who use new or improved early warning systems for climate risks, forest fire and pest	Baseline & Final Evaluation (USD 300.000), Mid-Term Review Evaluation (USD 58.000), Outcome Surveys (USD 150.000)
	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC)	Government data/records	Annual report	Percentage of women trained in the use of the integrated climate information system in relation to the total number of producers trained	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710) specialist (USD 126.336)
	CONAFOR's Geospatial and Integrated Forest Incentive Information System (SIIAC) and Household survey for qualitative information	Government data/records	Annual report and Baseline, Mid, and final Evaluations	Number of national systems related to fire and forest disease and MRV are improved to provide more reliable and timely information	MRV System (USD 762.405), M&E Specialist (USD 136.710)

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Output 3.2: Policy-relevant knowledge products elaborated from the systematic documentation of good practices and intervention approaches of the project	Publication of knowledge products in the CONAFOR website	Government data/records	Annual report	Number of relevant knowledge products	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710)
	Publication of new Operations rules and other official instruments	Government data/records	Annual report	Approved new policies or procedures	No additional costs- current CONAFOR system established, M&E Specialist (USD 136.710)

Evaluation			
Type	Timing	Independent/Self-evaluation	Indicative Budget
<i>Impact</i>	Baseline (Y1), and End-line (Y6)	Independent	Baseline & Final Evaluation (USD 300.000)
<i>Economic/Cost-effectiveness</i>	Mid term (Y3) and end-line (Y6)	Independent	Results Monitoring and Technical Consulting (USD 60,000)
<i>Process</i>	Mid-term (Y3) and each year from Y3 to Y6	Independent	Partial Results Evaluations + Mid Term (USD 58,000+ 150,000)
<i>Ex-post</i>	Endline Y6	Independent	Results Monitoring and Technical Consulting (USD 50,000)

M&E system for the Balsas Project

During the project implementation, CONAFOR will be responsible for overall project monitoring. The project will recruit a full-time Monitoring and Evaluation ME expert who will collaborate with the UCP and ETP of CONAFOR.

The Project's progress will be measured against the indicators included in the Project Logical Framework (refer to Section E of the FP). The Monitoring and Evaluation plan (M&E) put together the IFAD-approved Logical Framework and the additional indicators related to the GCF formulation. The plan includes a household baseline and impact evaluation at household level, several external evaluations during the Project implementation (at midterm and then annually until the ex-post evaluation), and a permanent strategy to collect and analyze information related to the implementation of the Project, as well as

external evaluations. The final review will assess the achievement of indicators, sustainability of results, and lessons learned. The parameters of such evaluations will be outlined in the Operation Manual.

Although impact indicators are essentially related to the improvement in the capacity to adopt new climate-resilient forest landscape management skills and livelihoods, the Logical Framework also includes the co-benefit in terms of GHG emission reduction. At the impact, outcome, and output levels, the indicators disaggregate targets by gender, age, and ethnic composition of the beneficiaries. Through independent evaluation, the M&E system will also measure improvement in terms of the development of new institutional instruments and mechanisms oriented to mainstream climate change in policies, operational rules of national programs, and coordination efforts among the different levels of the Government. The Logical Framework of the Project also encompasses indicators that reflect the progress of the Project in terms of the forest landscape areas that are managed according to new climate change resilience-related criteria and nature-based solutions. In addition, a set of deliverables for each activity is identified to enable the project team to follow up on the progress of the different components of the Project. Each Multiannual Invest Plan supported in the prioritized areas will also include basic indicators, whose progress will trigger the corresponding annual financial and technical supports.

Annual independent process studies from Y3 to Y6 will inform the final evaluation. These studies will be briefly reported on in the APR (cost, conclusions) and submitted as separate reports.

The collection of M&E data in the field and at the CONAFOR level will combine different systems and activities:

- **The Geospatial and Integrated Information System of Supports of CONAFOR (SIIAC for the Spanish acronym)** collects and records information on the proposals formulated by potential beneficiaries, the evaluation of the submitted proposals and the supported actions by the PADFS in the rural communities, including the Multi-Annual Investment Plans. SIIAC comprises a geospatial application that allows for the localization of the beneficiaries, the intervened polygons, and the delimitation of the rural communities. SIIAC will be a major information system to collect, analyze and report information related to the beneficiaries and actions supported by the project.
- Since 2015, Mexico has implemented a **National System for Monitoring, Reporting and Verification (SNMRV)** of Greenhouse Gas (GHG) emissions from forest sources (including deforestation and forest degradation) and CO₂ absorption by forest ecosystems. The system is capable of estimating: (a) the forest area of Mexico and its changes over time, and (b) the forest carbon stocks and their variations over time. Within the framework of the Balsas Project the SNMRV will be enhanced through the recruitment of GIS and Climate change specialists and the development of new IT applications. The SNMRV will pilot a new participatory initiative in the Balsas region that will be further scaled up at the national level. Instead of the usual private companies hired by CONAFOR, 18 brigades formed by one local expert and two rural youth (men and women) will be recruited by CONAFOR to participate in the data collection for the National Forest Inventory in the Balsas, the estimation of the deforestation rate, as well as the monitoring of a sample of parcels where the Project improve the management of forest landscapes. These MRV Brigades will report data to the CONAFOR SNMRV team through a new online application that will be developed by the Project (refer to Activity 3.1.3).

- **Independent evaluators** will be recruited from Year 3 to carry out the overall midterm evaluation, the effectiveness of the M&E system, as well as other specific assessments related to the implementation of safeguards, different models developed for reforestation, restoration, agroforestry, water management and the development and appropriation of new early warning systems. These independent evaluations will also include the estimation of CO2 emission of the project with Ex Act tool, and the Economic/Cost-effectiveness analysis.
- **A household survey** will be carried out at the beginning and the end of the project, to collect social, cultural, and economic information on a probabilistic sample of potential project beneficiaries, who will be later divided between control and treatment groups. This survey aims to obtain quantitative and qualitative information to measure improvement in climate resilience, livelihood, and adoption of new practices, as well as gender and ethnic disaggregated information.
- **Community Forest Monitoring** with Data collection from Brigades that will be put in place under Activity 2.3.3.

Total M&E Budget: USD 4.64 million (5.1% of total project costs)

- **Activity 2.3.3 on Data collection in Community Forest Monitoring (USD 2.518.369)**
- **Activity 3.1.3 on National System for Monitoring, Reporting and Verification (USD 762.420)**
- **Activity 3.2.3 on Monitoring and evaluation of projects (USD 1.359.965)**