

# **Annex 11**

## **Monitoring and Evaluation Plan**

GCF Funding Proposal

*Thai Rice:  
Strengthening Climate-Smart Rice Farming*

September 2023

Version 5

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)  
GmbH

## **Preface**

The M&E plan of the project describes the data and information that are collected, generated, analyzed, stored and communicated within the Thai Rice Project during the implementation phase. This enables monitoring and evaluation of the project's progress in view of the outcome expectations and associated indicators.

One has to distinguish between (i) the project's M&E system and (ii) the monitoring, reporting and verification (MRV) system that focuses on GHG emissions data (for the purpose of estimating emission reductions achieved by certain interventions) and on adaptation benefits.

Currently, there is no national MRV system for the agricultural sector in Thailand; this is under development. That is why a project-level (not national) MRV system was developed for the Thai Rice NAMA Support Project (NSP), which included: (i) a measurement component (GHG field emissions), (ii) a reporting component (regular information/communication on GHG emissions and mitigation progress and links to the national inventory databases at OAE and ONEP), and (iii), a validation component that checks (e.g. through field surveys) to what extent mitigation was achieved at farmer and landscape level.

A similar project-level MRV system will be developed for the Thai Rice Project. This MRV system will be embedded in, and linked to, the project's M&E system. Depending on the progress of the national MRV system for agriculture in Thailand, the project-level MRV system will be linked as early as possible to the national emissions inventory system.

Mitigation and adaptation data collected or generated by the project's MRV system will, where relevant to project indicators, feed into the project-level M&E system, where it will undergo further quality control according to the project's Q&A guidelines.

<b>Monitoring</b>				
<b>Data/Source</b>	<b>Collection or Management Tool</b>	<b>Frequency or Time of Collection/Reporting</b>	<b>Indicator/Information Point</b>	<b>Indicative Budget (in EUR direct costs)</b>
Data from farm books, field data, farm surveys, field measurements, and satellite data, secondary sources	Project M&E system: Using apps/templates/gui delines; design and programming of databases; compliance with data protection	Inception Phase and ongoing after (for each activity, prior to its initiation)	All indicators	135,000  Additional contributions (staff) through co-finance
Data from trainings and ongoing coaching of implementors, collected under special consideration of gender-disaggregated data, implementing ESS principles in M&E, and data protection	Project M&E system: Using use all established data-collection tools/templates and link to project-level or national MRV system	Ongoing	All indicators	100,000  Additional contributions (staff) through co-finance
Data for storage and quality assurance, and potential link to project-level MRV	Project M&E system: Data storage systems and quality control mechanisms	Ongoing	All indicators	118,991
n.a.	Personnel for supervision of M&E system design and quality assurance of all M&E related tasks and management of M&E Team	Ongoing	All indicators	72,963

Monitoring				
Data/Source	Collection or Management Tool	Frequency or Time of Collection/Reporting	Indicator/Information Point	Indicative Budget (in EUR direct costs)
Data on annual GHG emissions	Project-level M&E system; later included in MRV system.	Baseline survey and Annual survey; National level reporting to UNFCCC (BUR)	Core 1: GHG emissions reduced, avoided or removed/sequestered	97,992
<p>Government data/records</p> <p>Satellite data for triangulation of indicators observable from space (potentially including data supplied by GISTDA)</p> <p>Data from DoAE monitoring of farming and extension activities</p> <p>Data from OAE project-independent surveys on agricultural and</p>	Project M&E system	<p>Baseline survey and Annual / Quarterly surveys</p> <p>Quarterly reporting on extension strategy implementation plans (see Sub-Activity 1.1.1.1)</p>	Core 2: Direct and indirect beneficiaries reached	65,000

<b>Monitoring</b>				
<b>Data/Source</b>	<b>Collection or Management Tool</b>	<b>Frequency or Time of Collection/Reporting</b>	<b>Indicator/Information Point</b>	<b>Indicative Budget (in EUR direct costs)</b>
agronomic statistics				
Satellite data for triangulation of indicators observable from space; potentially including data supplied by GISTDA on on-farm biodiversity	Project M&E system	Annual	Core 4: Hectares of natural resources brought under improved low-emission and/or climate-resilient management practice	10,000
Government data/ records  National statistics on food and nutrition security for triangulation	Project M&E system	Annual	Supplementary 2.2: Beneficiaries (female/male) with improved food security	None
Government data/ records  RID statistics on water security for triangulation	Project M&E system	Annual	Supplementary 2.3: Beneficiaries (female/male) with more climate-resilient water security	None
Data from income surveys of farmers  Farm book data  BAAC and DoAE statistics	Project M&E system: Surveys and questionnaires	Baseline study Mid-term End	Annual income of climate-smart rice farmers: -Project-supported rice farmers -Project-supported male rice farmers -Project-supported female rice farmers (female-headed households)	30,000
Farm book data	Project M&E system:	Annual	Number of rice farmers who	None

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BAAC and DoAE statistics  Data from on-site interviews	On-site farmer interviews		invest in and apply climate smart technologies and practices	
Data from field surveys on climate-smart farmers	Surveys & questionnaires	Baseline study Mid-term End	Knowledge level of farmers on climate-smart agriculture	None Provided as part of Training Need Assessment and Training surveys
Data from field monitoring/measurement activities	Project M&E system: Field monitoring of climate-smart rice fields versus control/conventional practice rice fields	Annual	Water use-scaled yields of climate-smart rice (kg rice/m <sup>3</sup> water/ha)	50,000  Additional contributions (staff) through co-finance
Government data/records; relating to farmers' volume of rice production and GHG emissions	Project M&E system	Annual	Yield-scaled GHG emissions of climate-smart rice (kg CO <sub>2</sub> /kg harvested rice)	50,000  Additional contributions (staff) through co-finance
Data on service providers	Project-maintained database of quality-assessed service providers	Annual	Number of service providers that are quality-assessed and successfully registered to provide climate-smart services to rice farmers	None
Data from farmer surveys Data from project's service provider registry	Surveys & questionnaires.  Project-maintained database of quality-assessed service providers	Annual	Area of project farmland that is served by registered service providers	10,000

<b>Monitoring</b>				
<b>Data/Source</b>	<b>Collection or Management Tool</b>	<b>Frequency or Time of Collection/Reporting</b>	<b>Indicator/Information Point</b>	<b>Indicative Budget (in EUR direct costs)</b>
Data from farmer surveys Data from project's service provider registry	Surveys & questionnaires	Annual	Approval ratings of service providers by farmers show improving trend over time for: -Machine services -Insurance -Agro-met services	None (covered through integrated ratings/continuous surveys)
Data/ information points from official reports (e.g. ministerial statements, strategy documents, progress reports, etc.)	Document review	Annual	Revised (climate-proofed) policies, strategies, budget lines	None
Survey data, including analysis of named business/income cases among national and international private sector actors, farmer representatives and public sector representatives	Surveys and questionnaires	Mid-term End	Survey respondents identify concrete improvements of institutional and market environment for climate-smart agriculture	10,000
Government data/ records  Data from database on Thai rice farmers' production practices, service providers and extension activities	Database on farmers and their production practices; Database on service providers	Annual	Number of rice farmers certified with sustainability standard	None

<b>Monitoring</b>				
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Data from ACFS and other sustainability standards' statistics / publications				
Government data/ records; minutes of meetings circulated by the official focal point designated by MoAC	Project M&E system	Annual	The Thai Rice Facility meets regularly to serve as a forum for institutional coordination	None
Government data and records; assessment reports, minutes of Thai Rice Facility, TGO registry	Project M&E system	Annual	Number of demonstration projects undertaken to design and calibrate the T-VER Rice Scheme	None
Government data/ records; event reports, attendance sheets, etc.	Project M&E system	Annual	Number of beneficiaries of regional knowledge-sharing events	None
Data from scorecard completed by women farmers attending project-supported training and extension services	Key informant interviews; design an roll-out of scorecard	Baseline study Mid-term End	Co-benefit 1: Gender empowerment score	150,000
Data from farm books, on-site farmer interviews  Data from analysis reports on paddy water	Field observation visits  Field sampling for chemical analysis of paddy water	Annual	Co-benefit 2: Reduction in tonnes of agro-chemicals applied to rice paddies (chemical fertilizers,	15,000  Additional contributions (staff) through co-finance



Monitoring				
Data/Source	Collection or Management Tool	Frequency or Time of Collection/Reporting	Indicator/Information Point	Indicative Budget (in EUR direct costs)
			pesticides, herbicides)	
Data from farm books  Surveys and on-site farmer interviews  Government records (potentially including data supplied by GISTDA)	Project M&E system	Annual	Number of farmers applying climate-smart straw and stubble management practices (e.g., removal of straw, incorporation of straw into the soil)	None
Evaluation				
Type	Independent/Self-evaluation	Timing	Indicative Budget	
<i>Process</i>	Independent	Interim Evaluation	EUR 100,000	
<i>Impact</i>	Independent	Final Evaluation	EUR 100,000	