

Guideline for Sustainable Development and Safeguards Assessment Report and Monitoring Report for Thailand Voluntary Emission Reduction (Premium T-VER)

(Version 1.0)

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1. Objectives

1. The Thailand Voluntary Emission Reduction Program (Premium T-VER) aims to contribute to the sustainable development in the Kingdom of Thailand through the implementation of Premium T-VER and the “Guideline for Sustainable Development and Safeguards Assessment Report and Monitoring Report for Premium T-VER” (hereinafter referred to as “these Guideline”) facilitates this objective.

2. Scope and applicability

2. These Guideline are intended to assist project participants in developing Sustainable Development and Safeguards Assessment Report (hereinafter referred as “SDSAR”) and Sustainable Development and Safeguards Monitoring Report (hereinafter referred as “SDSMR”) for Premium T-VER
3. These Guideline describe the standards which are the requirements to be met, except guidance indicated with the term “should” or “may” is indicated as defined in paragraph 5 below.

3. Terms and Definitions

4. “SDSAR” is prepared by a project participants of the Premium T-VER by filling in “Sustainable Development and Safeguards Assessment Report Form” (hereinafter referred as “SDSAR form”) and specifying in detail, in line with the Premium T-VER rules and guideline, a plan of the Premium T-VER project in contribution to sustainable development including the identification of and mitigation measures for any negative environmental and socio-economic impacts in order to ensure that project activities “do no net harm”.
5. The following terms apply in these Guidelines:
 - a) “Should” is used to indicate that among several possibilities, one course of action is recommended as particularly suitable;
 - b) “May” is used to indicate what is permitted.

4. General guidelines

6. When developing SDSAR and SDSMR for the Premium T-VER, project participants apply these Guideline.
7. Project participants provide a comprehensive description of assessment and implementation on contributions to the Sustainable Development Goals (hereinafter referred as SDGs) adopted at the United Nations General Assembly in September 2015 through their project and ensure that project activities “do no net harm”.
8. Project participants should conduct ex-ante analysis of the contribution to SDGs and identify and mitigate any negative environmental and socio-economic impacts in order to ensure that project activities do no net harm using SDSAR form and ex-post evaluation using the SDSMR form.
9. The Guideline, the SDSAR form, and the SDSMR form can be obtained electronically from the T-VER website.
10. TGO may revise the SDSAR form and the SDSMR form, if necessary.
11. The presentation of the values in the SDSAR form and the SDSMR form, including those used for the calculation, where necessary, should be in an international standard format e.g. 1,000 representing one thousand and 1.0 representing one. The units used should be accompanied

by their equivalent S.I. units/norms (thousand/million) as part of the requirement to ensure transparency and clarity.

12. 14. The SDSAR form and the SDSMR form are to be completed without any alterations to its format, font and headings. Figures, documents, evidence related to the description may be attached. In the case that there is any other relevant issue needed to be considered, it is specified in the last row of each area of assessment.
13. Project participants are encouraged to refer to, as appropriate, the relevant local and/or national regulations in their preparation of SDSAR and SDSMR.

5. Development of SDSAR and SDSMR

In the following section, a hypothetical project is described in red as an example to demonstrate how to fill in the SDSAR form and SDSMR form.

5.1. Completing a SDSAR form

Sustainable Development and Safeguards Assessment Report

Project Details	
Title	Alternative Wetting and drying project by ABC Co., Ltd.
Title of CPA (for PoA)	-
Project Participant	ABC Co., Ltd.
Co-Project Participant	-
Project Owner	ABC Co., Ltd.
Project Location	123 Ban Klab Subdistrict, Nong Don District, Saraburi Province
Coordinates of project location	N 10° 10' 00" และ E 100° 10' 00"
Project Status	Project status on Date..... <input checked="" type="checkbox"/> Not yet implemented <input type="checkbox"/> Implement on (D/M/Y)

Details of the report preparation		
Finish Date	4 July 2025	
Version	1.0	
Name of reporter	Name	Mr. James Lee
	Position	Manager
	Organization	MNO Co., Ltd.
	Telephone	080-000-0000
	email	James.L@MNO.co.th

Note:

- 1) Related figure, documents, evidence related to the description may be attached as attachment.
- 2) In the case where there is any other relevant issue that needs to be considered, it can be specified in the last row of each area of assessment.

Certification Letter

DD/MM/YYYY

I, the undersigned, hereby certify that.....MNO Co., Ltd.....is the author of the
“Sustainable Development and Safeguards Assessment Report” of the project titled
Alternative Wetting and drying project by ABC Co., Ltd.....Developed by ABC Co., Ltd
located at 123 Ban Klab Subdistrict, Nong Don District, Saraburi Province, Thailand.....

The report was prepared by the team members as follows:

No	Name	Position	Signature
1.	Mr. James Lee.....	Manager.....
2.	Mr. Scott Green.....	Environmental expert.....
3.	Ms. Sarah Smith.....	Environmental expert.....

Signature.....

(.....Mr. James Lee.....)

Position.....Manager.....

Seal (if any)

Part 1 General information of the project area before project implementation

Provide baseline information describing the conditions before project implementation. This data is essential for assessing the project's environmental, social, and economic impacts. Ensure the details are accurate and comprehensive to support a thorough evaluation.

Area of Assessment	Description
1. Environmental and Natural Resources	
1.1 Air pollution	The project area is primarily agricultural; therefore, no data regarding air pollution has been reported.
1.2 Water pollution	The activities conducted by the local community are primarily agricultural; therefore, no data regarding water pollution have been reported.
1.3 Soil pollution	No soil pollution was reported in the area.
1.4 Noise pollution	No point sources of noise pollution were found in the area.
1.5 Odor pollution	No odor was reported in the area.
1.6 Water consumption	Water consumption within the project area is limited to household and agricultural purposes.
1.7 Solid waste/municipal solid waste	Solid waste is collected and managed by the local administrative organization. Waste is properly disposed of and has not been improperly discharged.
1.8 Hazardous waste/infectious waste/electronic waste	There are no activities within the project area that generate hazardous waste, infectious waste, or electronic waste.
1.9 Energy (i.e. Wasted Energy, Renewable Energy)	There are no power plants or renewable energy production facilities within the project area.
1.10 Land Use	The project area is agricultural land with official land use documentation.
1.11 Biodiversity	The project area has low biodiversity because it is mainly utilized for agricultural purposes. Weed and pest control had been implemented prior to the commencement of the project.
1.12 Wild animal/ Aquatic ecosystem	Aquatic animals found in the project area consist of small freshwater fish. In addition, aquatic invertebrates are also present.
1.13 Other (Please specify...)	-
2. Society	
2.1 Socio-cultural characteristics	The communities surrounding the project area consist primarily of agricultural households.
2.2 Health and safety	The communities surrounding the project area have access to health and safety service facilities.
2.3 Traditions, cultures and/or	The customs and cultural values in the area are similar to those

Area of Assessment	Description
valuable places worthy of conservation	of the central region of Thailand. There are no sites of cultural or conservation significance in the vicinity of the project area.
2.4 Race, religion, and ethnic group	Most of the population in the area are native Thai Buddhists, with a small number of migrant workers from neighboring countries.
2.5 Transportation	The area is accessible via convenient transportation routes, providing ease of access to agricultural land, which facilitates the implementation of agricultural activities.
2.6 Other (Please specify...)	-
3. Economic	
3.1 Overall local economy (i.e. income, expenditure, etc.)	Most of the population is engaged in agriculture and industry. In the agricultural sector, the main crops include rice, maize for animal feed, sugarcane, and cassava, with cultivation areas that serve as key production sources contributing significantly to the provincial economy.
3.2 Employment/Career	Most of the population is employed in agriculture, particularly rice cultivation, while there is also employment in the industrial sector, such as the manufacturing and processing of agricultural products.
3.3 Major agricultural activity in the area	Rice cultivation is the primary agricultural activity, and there are also other crops such as maize, sugarcane, and various vegetables.
3.4 Major industry in the area	The main industries in the project area involve the processing of agricultural products.
3.5 Major service sector in the area	The area surrounding the project site includes trade and service businesses, such as retail shops, restaurants, and other services that support the agricultural community.
3.6 Basic infrastructure (i.e. road, school, etc.)	Transportation and logistics around the project area are facilitated by interconnected primary and secondary roads. Basic public infrastructure, including electricity, water supply, educational institutions, and healthcare facilities, is available in this area.
3.7 Other (Please specify...)	

**Project Participant explains in detail of provenance and importance of issue consider about before project implement and specify if the project is rightful/environmental law, social, and economy. To have Negative impact assessment (Do-no-net-harm) with supporting documents.*

Part 2 Sustainable Development Goals

2.1 Sustainable Development Contribution Assessment

Please mark ☒ in ☐ to identify the contributions of the proposed project to specific SDG. The project is required to contribute to at least two SDGs, in addition to SDG13: Climate Action.

Project Contributions to SDGs	Indicator	Project Contributions to SDGs
<input checked="" type="checkbox"/> GOAL 1: No Poverty	Support for the production and purchase of agricultural products from farmers in the project area.	Support or assistance in marketing and purchasing agricultural products resulting from project activities
<input type="checkbox"/> GOAL 2: Zero Hunger		
<input type="checkbox"/> GOAL 3: Good Health and Well-being		
<input type="checkbox"/> GOAL 4: Quality Education		
<input checked="" type="checkbox"/> GOAL 5: Gender Equality	Employed/ Create job/Generate income for local people in the surrounding community	Employment opportunities for both men and women in the project area, with an emphasis on equal remuneration for equal work.
<input type="checkbox"/> GOAL 6: Clean Water and Sanitation		
<input type="checkbox"/> GOAL 7: Affordable and Clean Energy		
<input type="checkbox"/> GOAL 8: Decent Work and Economic Growth		
<input type="checkbox"/> GOAL 9: Industry, Innovation and Infrastructure		
<input type="checkbox"/> GOAL 10: Reduced Inequality		
<input type="checkbox"/> GOAL 11: Sustainable Cities and Communities		
<input type="checkbox"/> GOAL 12: Responsible Consumption and Production		

Project Contributions to SDGs	Indicator	Project Contributions to SDGs
<input checked="" type="checkbox"/> GOAL 13: Climate Action	Greenhouse gas reduction resulting from the project operation.	Alternate wetting and drying (AWD) rice cultivation helps reduce greenhouse gas emissions.
<input type="checkbox"/> GOAL 14: Life Below Water		
<input type="checkbox"/> GOAL 15: Life on Land		
<input type="checkbox"/> GOAL 16: Peace and Justice Strong Institutions		
<input type="checkbox"/> GOAL 17: Partnerships to achieve the Goal		

**Project Participant provides the description for each indicator of the selected SDGs and presents currently available datasets along with supporting documents.*

2.2 Details on Monitoring Parameters for Demonstrating SDG Contributions

Provide details on how to monitor the indicators identified in Section 2.1.

(Tables can be added based on the number of selected SDGs.)

SDG Number	1
SDG Target	No Poverty
Variable or Indicator	Income from the sale of rice produced by farmers in the project area
Duration/Frequency	Once per year
Method/Tool	Prepare the report on the income from rice sales by farmers in the project area.
Responsible person	ABC Co., Ltd.

SDG Number	5
SDG Target	Gender Equality
Variable or Indicator	Employment report on workers in the project
Duration/Frequency	Once per year
Method/Tool	Employment Agreement or Contract Documentation Record Form
Responsible person	ABC Co., Ltd.

Part 3 Do-no-net-harm

3.1 'Do no net harm' Risk Assessment and Safeguards

Specify impacts and mitigation plans to mitigate negative impacts

Potential Impact of Project Activity	Severity Level of Impact				Description of Impact	Action Plan to mitigate harmful impacts
	None	Low	Moderate	High		
1. Impact on Environment and Natural Resources						
1.1 Physical resources						
Water pollution	/				The project promotes the reduction of chemical fertilizer use, helping to decrease water pollution.	
Soil pollution	/				The project supports the use of bio-fertilizers and organic fertilizers in combination with chemical fertilizers to increase soil organic matter.	
Air pollution	/				The project encourages the utilization of rice straw and prohibits the burning of agricultural residues.	
Noise pollution	/					
Odor pollution	/					
Soil erosion, coastal/river erosion	/					
Vulnerability to natural disaster	/					
Other						
1.2 Waste Management						
Increase in solid waste/municipal solid waste	/				The project collects packaging waste and delivers it to the responsible authority for proper disposal.	
Increase in hazardous waste such as waste contaminated with oil, chemicals and used oil etc.	/				The project collects hazardous waste and delivers it to the responsible authority for proper disposal.	
Increase in infectious waste	/					

Potential Impact of Project Activity	Severity Level of Impact				Description of Impact	Action Plan to mitigate harmful impacts
	None	Low	Moderate	High		
Increase in electronic waste	/					
Other						
1.3 Biological resources						
Impacts on forest areas and land-use change	/				The project area has been used for rice cultivation prior to the commencement of the project.	
Loss of land and wildlife ecosystem	/					
Loss of water resources and aquatic ecosystem	/					
Foraging	/					
Food	/					
Other						
1.4 Human livelihood						
Water drainage or waterway diversion	/					
Change in water consumption		/			The project has pumped water from community water sources for its operations, with permission obtained in accordance with relevant regulations and laws. This has resulted in an increase in water usage for agricultural purposes and may reduce the amount of water available for other purposes.	The project plans to reduce water consumption and control its use to ensure sufficiency for operational needs.
Change in land ownership	/				The land remains legally owned by the farmers.	
Other						
2. Social Impacts						
Public security such as increase in crime risks	/					
Health impacts	/				The project plans to monitor the health of farmers and provide training on the use of personal protective equipment and the reduction of chemical usage.	
Relocation or temporary/permanent loss of land	/					
Loss of housing	/					
Impact on public utilities such as electricity,	/					

Potential Impact of Project Activity	Severity Level of Impact				Description of Impact	Action Plan to mitigate harmful impacts
	None	Low	Moderate	High		
telephone service etc.						
Impact on traffic	/					
Community conflict	/					
Employment and labor	/					
Impact on people of certain race, religion and ethnic groups	/					
Damage to areas of high conservation value, such as religious sites, historic sites, monuments, important places of the community etc.	/					
Impact on human rights such as education, freedom of thought, religion etc.	/					
Gender inequality such as in employment opportunities, salary, promotion, benefits, termination of contract etc.	/					
Other						
3. Economic Impacts						
Increase unemployment /loss of income of people in local communities	/					
Other						

*Criteria for assessing the level of impact severity

1. None: The proposed activity has no direct/indirect impacts on the environment, society and economy.
2. Low: The proposed activity causes some changes to the existing conditions but has no implication on the quality of the environment, society and economy. The impact is short-lived and temporary, and the extent of the affected area is not large (1km perimeter).
3. Moderate: The proposed activity causes some changes to the existing conditions and has implications on values or qualities of the environment, society and economy. The impact is short-lived and temporary. The extent of the affected area is large but confined to the related area (2km perimeter).
4. High: The proposed activity causes some changes to the existing conditions and has implications on value or quality of the environment, society, economy, and potentially the ecosystem. The impact is permanent and the extent of the affected area is extensive (3km perimeter).

3.2 Details on Monitoring Parameters for Ensuring No Negative Impacts

Provide details on how to monitor the impacts identified in Section 3.1.

(Tables can be added based on the number of negative impacts identified)

Category of negative impact	Human livelihood
Subcategory of negative impact	Change in water consumption
Vulnerable group	Farmers and communities in the project area
Possible negative impact	Water scarcity for other community activities
Parameter/indicator	Rainfall volume, and water level in the area
Reference	Meteorological data and information from relevant local agencies
Duration/frequency	Every 6 months
Method/Tools	Data from references
Responsible person	ABC Co., Ltd.
Expected outcome	Sufficient water availability for the project and other community activities

5.2. Completing a SDSMR form

Sustainable Development and Safeguards Monitoring Report

Project details	
Registration Number	000
Title	Alternative Wetting and drying project by ABC Co., Ltd.
Title of CPA (for PoA)	-
Project Participant	ABC Co., Ltd.
Co-Project Participant	-
Project Owner	ABC Co., Ltd.
Project Location	123 Ban Klab Subdistrict, Nong Don District, Saraburi Province
Coordinates of project location	N 10° 10' 00" และ E 100° 10' 00"
Monitoring Period	1 January 2026 – 31 December 2029

Details of the report preparation		
Finish Date	3 July 2030	
Version	02	
Name of reporter	Name	Mr. James Lee
	Position	Manager
	Organization	MNO Co., Ltd.
	Telephone	080-000-0000
	email	James.L@MNO.co.th

Note:

- 1) Related figure, documents, evidence related to the description may be attached as attachment.
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Wetting and drying project by ABC Co., Ltd......Developed by ABC Co., Ltd......located at 123
Ban Klab Subdistrict, Nong Don District, Saraburi Province, Thailand.....

The report was prepared by the team members as follows:

No	Name	Position	Signature
1.	<u>Mr. James Lee</u>	<u>Manager</u>
2.	<u>Mr. Scott Green</u>	<u>Environmental expert</u>
3.	<u>Ms. Sarah Smith</u>	<u>Environmental expert</u>

Signature.....

(.....Mr. James Lee.....)

Position.....Manager.....

Seal (if any)

Part 1 Sustainable Development Goals

1.1 Results of Monitoring SDG Contributions

Provide the results of monitoring SDG contributions based on the parameters identified in Section 2.2. of the SDSAR

SDG Number	1
SDG Target	No Poverty
Variable or Indicator	Income from the sale of rice produced by farmers in the project area
Duration/Frequency	Once per year
Method/Tool	Prepare the report on the income from rice sales by farmers in the project area.
Responsible Person	ABC Co., Ltd.
Monitoring Result	Details of income from rice sales of farmers in the project area.

SDG Number	5
SDG Target	Gender Equality
Variable or Indicator	Employment report on workers in the project
Duration/Frequency	Once per year
Method/Tool	Employment Agreement or Contract Documentation Record Form
Responsible Person	ABC Co., Ltd.
Monitoring Result	Employment report of project staff: A total of employees, comprising female employees with an average wage of Baht, and male employees with an average wage of Baht

Part 2 Do-no-net-harm

2.2 Results of Monitoring Parameters for Ensuring No Negative Impacts

Provide the results of monitoring parameters for ensuring no negative impacts based on the parameters identified in Section 3.2. of the SDSAR.

Category of Negative Impact	Human livelihood
Subcategory of Negative Impact	Change in water consumption
Vulnerable Group	Farmers and communities in the project area
Possible Negative impact	Water scarcity for other community activities
Parameter/Indicator	Rainfall volume, and water level in the area
Reference	Meteorological data and information from relevant local agencies
Duration/Frequency	Every 6 months
Method/Tool	Data from references
Responsible Person	ABC Co., Ltd.
Monitoring Results	Average rainfall:, and average water level in the area: