



Addressing Climate Change Risks on Water Resources and Food Security In the Dry Zone of Myanmar

9th PSC Meeting

18th June 2019
Sandaku Meeting Hall, DZGD Headquarter



Progress of Implementation in 2019

(Jan - Jun 2019)

Key Activities implemented in 2019

- Follow up of 8th PSC decisions
 - Monitoring of water infrastructure and rectification works
 - 1st round of Inspection - Project Team/IPs/DRD - Jan-Feb 2019
 - Rectification works by IPs - Jan-Mar 2019
 - 2nd round of inspection - Project Team/IPs/DRD - Mar 2019
 - 3rd round of inspection - Project Team - Apr-May 2019
 - 4th round of Inspection - Project Team - 08 May 2019

Water infrastructure rectification works in Nyaung U township



Htee Pu village, Nyaung U



Water infrastructure Rectification works in Nyaung U township



Water infrastructure rectification in Chauk township



Twin Lat village, Chauk



Monitoring visits by Project Team



Key Activities implemented in 2019

- Follow up of 8th PSC decisions
 - Rehabilitation/Reforestation programme
 - Joint survival counting and patching activities (April 1-7, 2018) - 86.79 %
 - Contract extension for Network Activities Group - 3 months with additional budget for patching.
 - Establishment of nursery in Nyaung U and Chauk townships
 - Patching activities underway

Rehabilitation/reforestation activities (patching)

- Target Seedlings - 50,000
 - Actual Seedlings- 60,000
 - Eucalyptus - 10,000
 - Shawphyu - 50,000
-
- NYU - 30,000
 - Chauk -30,000



Rehabilitation/reforestation activities (patching)



Rehabilitation/reforestation activities (patching)



Key Activities implemented in 2019

- Impact Assessment Survey - Nov-Dec 2018
- Township wise CF workshops - Feb 2019
- UN Board of Auditors mission - Mar 2019
- Terminal Evaluation - Mar 2019
- 14th TAG meeting - Mandalay, 21 Mar 2019
- Video documentary production - May 2019
- Lessons learnt workshop - 17 May 2019
- IP asset handover - May 2019
- 15th TAG meeting - 6 June 2019
- Magway Regional Government's visit to project villages in Chauk - 11 June 2019
 - U Win Maw Htay, Regional Minister for Agriculture, Livestock and Irrigation visited in Chauk Township on 11 June 2019
 - Directors of Department of Agriculture, Livestock Breeding and Veterinary Department, and Department of Rural Development joined the mission
 - Heads of township departments also joined the event - GAD, DZGD, FD, LBVD, DRD and DOA

Magway Regional Minister Visit in Chauk

Field visit to San Kan, Thit To Kan and Thalone Thway villages



Overall Project Results and Achievements

Salient Features of the Project

Project Title	Addressing Climate Change Risks on Water Resources and Food Security in the Dry Zone of Myanmar
Imp Entity	United Nations Development Programme
Exe Entity	United Nations Development Programme
Counterpart	Ministry of Natural Resources and Environmental Conservation
Financing	US\$ 7,289,425
Co-financing	US\$ 624,998 (UNDP) US\$ 554,181 (Govt of Myanmar, in kind)
Project duration	4 years (Feb 2015 - Jun2019)
Project location	3 Regions, 5 Townships (Shwebo, Monywa, Myingyan, Nyaung U, Chauk)
Target Population	50,000 households - mainly landless and marginal/small holder farmers



Project Overview (Objective/Outcomes/Outputs)

To reduce the vulnerability of farmers in Myanmar's Dry Zone to increasing drought and rainfall variability, and enhance the capacity of farmers to plan for and respond to future impacts of Climate Change on food security

Continuous freshwater availability is ensured during the dry seasons in 280 villages in the Dry Zone

Water capture and storage capacities in 280 villages enhanced to ensure sufficient irrigation and potable water supply during dry periods

6,141 hectares of micro-watersheds protected and rehabilitated through Farmer-Managed Natural Regeneration (FMNR) to increase natural water retention and reduce erosion

Community-based agro-forestry plots established on 3,983 hectares of lands to conserve soil and water

\$4,084,642

Climate-resilient agricultural and livestock practices enhanced in Myanmar's Dry Zone

Drought-resilient farming methods introduced to farmers to enhance the resilience of subsistent agriculture in the Dry Zone

Resilient post-harvest processing and storage systems introduced to reduce climate-induced post-harvest losses (drought and floods)

Climate resilient livestock production systems introduced in 6,300 landless households to buffer the effects of flooding and drought on rural livelihoods

\$2,316,760

Timeliness and quality of climate risk information disseminated to Dry Zone farmers enhanced

Climate hazard maps and risk scenarios developed in each township to support community-based climate risk management and preparedness planning

Local level climate and disaster risk management framework strengthened for timely and effective communication of climate risk and early warning information

\$782,000

Output 1.1: Water capture and storage capacities in 280 villages enhanced to ensure sufficient irrigation and potable water supply during dry periods

Activity	Prodoc Target	Revised Target	Achieved
water diversion canals	55	45	45
water pumping systems	70	70	70
communal water tanks	70	56	56
communal water ponds	150	150	136
deept tube wells	10	10	12
soil and water conservation	1,563	1,156	1,629
shallow tube wells	56	40	20

Water diversion canals



Communal water tanks



Deep tube wells



Shallow tube wells



Output 1.2: 6,141 ha of micro-watersheds protected and rehabilitated through Farmer-Managed Natural Regeneration (FMNR) to increase natural water retention and reduce erosion

Activity	Prodoc Target	Revised Target	Achieved
natural forest conservation	2,160	3,913	3,050
community-based forestry	680	1458	1230
Watershed planation		661	667
plantation on public land	1,360	770	1,189

Output 1.3: Community-based agroforestry plots established on 3,983 ha of land to conserve soil and water

Activity	Prodoc Target	Revised Target	Achieved
homesteads and agroforestry plantation	1,700	1,000	1,000
Gap Planting		1458	667
plantation on farm boundaries	3,400	1,500	901
Demonstration Plots		25	25

Rehabilitation/reforestation activities



Output 2.1: Drought-resilient farming methods introduced to farmers to enhance the resilience of subsistent agriculture in the Dry Zone

Activity	Prodoc Target	Revised Target	Achieved
households, extension workers and CSO/NGO members trained on climate-resilient farming methods	12,600	11,550	17,680
Village-level research farm operational	140	140	150
community participants in exchange visits and farmers field demonstrations are from non-project target villages	20%	20%	98 HH

Output 2.2: Resilient post-harvest processing and storage systems introduced to reduce climate-induced post-harvest losses (drought and floods)

Activity	Prodoc Target	Revised Target	Achieved
locally produced threshing machines	140	140	127
establishment of thresher user groups	140	140	127
Crop storage facility	36	36	36

Climate resilient agriculture practices



[Video](#)

Climate resilient agriculture practices





Output 2.3: Climate resilient livestock production systems introduced in 6,300 landless households to buffer the effects of flooding and drought on rural livelihoods

Activity	Prodoc Target	Revised Target	Achieved
No of households with increased diversity of livestock assets	6,300	6,300	7,197

Climate resilient livestock practices



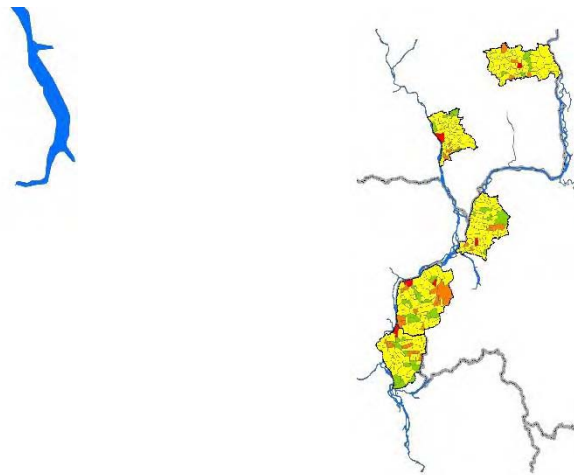
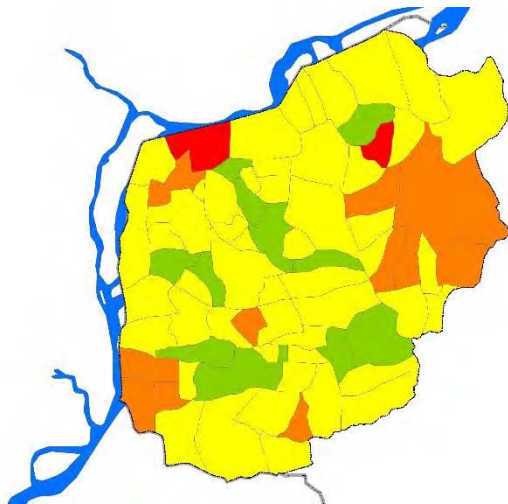
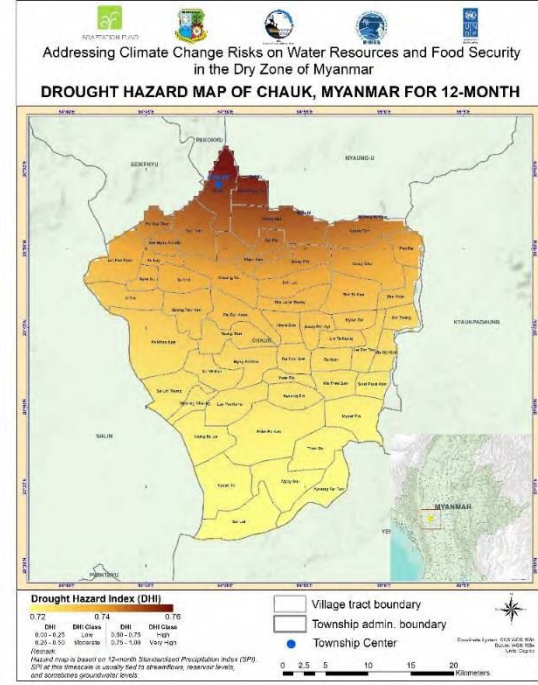
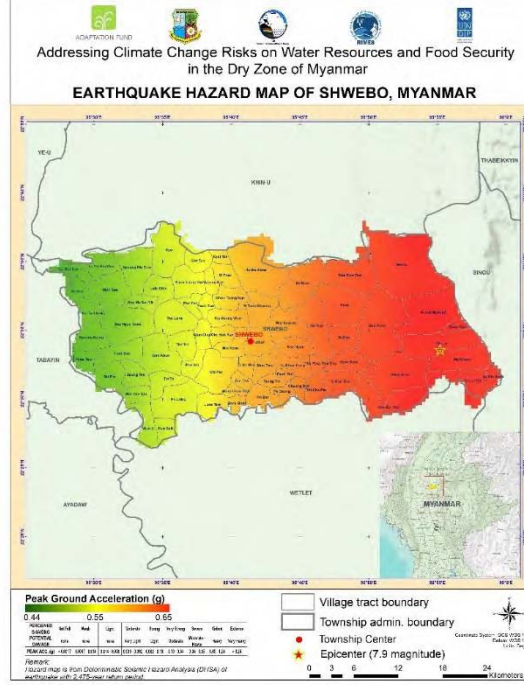
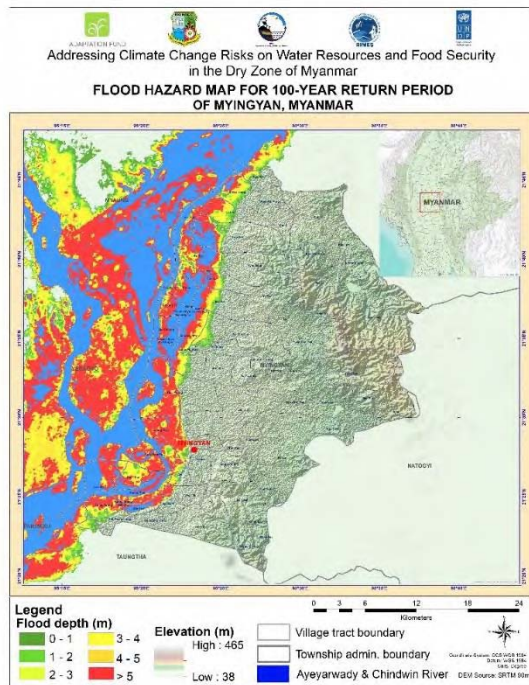
Output 3.1: Climate hazard maps & risk scenarios developed to support community-based climate risk mgt and preparedness planning

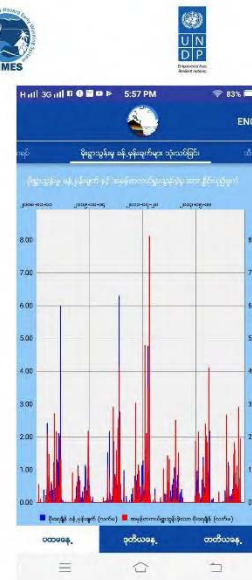
Activity	Prodoc Target	Revised Target	Achieved
climate hazard maps and risk scenarios	5	5	15

Output 3.2: Local level climate and disaster risk management framework strengthened for timely and effective communication of climate risk and early warning information

Activity	Prodoc Target	Revised Target	Achieved
Community based disaster risk management committees	70	70	75
Climate Risk Information Subcommittees established	5	5	5
agro-meteorological bulletins/early warning and disaster response bulletins	6	6	426

Hazard maps and risk scenarios





Climate risk information dissemination

Features	Detail
News Notification	<ul style="list-style-type: none"> News update Weather notifications Early warning notification
Disaster Information	<ul style="list-style-type: none"> Do's and Don'ts for 8 hazards Information on Disaster Management Law and Regulation
Emergency Contact List	<ul style="list-style-type: none"> List of emergency contacts



သင့်ရဲ့အသံကို ဖြည့်သွင်းထားလိုက်ပါ။

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DAN Myanmar

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In partnership with:

UNDP
ADAPTATION FUND

Empowered lives.
Resilient nations.

Developed by:

Community based disaster risk management



Capacity development/training

Thematic Area	Households
Training on watershed management and enhanced techniques of soil & water conservation	11,489
Training on climate-resilient agriculture and livestock practices.	39,875
Training on disaster and climate risk management	11,500
TOTAL	62,864

Project Infographics



WATER ACCESS

Enhancing water access and availability through small-scale water infrastructure.

8,062ha

LAND REHABILITATED/
REFORESTED

- 70 WATER PUMPING SYSTEMS
- 12 DEEP TUBE WELLS
- 20 SHALLOW TUBE WELLS
- 56 COMMUNAL WATER TANKS
FOR COLLECTING RAINWATER
- 136 COMMUNAL WATER PONDS
REHABILITATED

1600ha

IMPROVED LAND MANAGEMENT
TO CONSERVE WATER

280

VILLAGES WITH ENHANCED
FRESHWATER AVAILABILITY
DURING DRY SEASON



CLIMATE-RESILIENT FARMING

Promoting climate-resilient agriculture and livestock practices.

1244

DEMONSTRATION PLOTS

Using enhanced climate-resilient agriculture practices.

127

CROP THRESHERS

With operation and maintenance training.

36

ELEVATED SEED STORAGE
FACILITIES

With quality seeds of key crops.

7,197

HOUSEHOLDS

provided with diversified livestock species (chickens, goats, pigs).



ALERTING & PROTECTING

Improving timeliness and quality of climate risk information sharing short-term, medium-term, and longer-term climate data with farmers.

5 TOWNSHIPS

Risk and vulnerability assessments conducted and hazard maps created. (flood, earthquake, drought)

75

COMMUNITY BASED DISASTER RISK
MANAGEMENT COMMITTEES

established and trained on disaster risk reduction and management at village level.

1 COMPREHENSIVE MOBILE
PHONE APPLICATION

For disaster alerts.

1 COMPREHENSIVE MOBILE
PHONE APPLICATION

For weather forecasts.



TRAINING

Building capacity & enhancing techniques.

9,377

HOUSEHOLDS

Received training on watershed management and enhanced techniques of soil & water conservation.

40,722

HOUSEHOLDS

Received training on climate-resilient agriculture and livestock practices.

11,500

PEOPLE

Received training on disaster and climate risk management.

Financial Achievement

Project Budget	2014/2015	2016	2017	2018	2019
7,945,855.00	497,015.57	1,854,653.43	2,540,409.50	2,636,966.86	420,967.44

Expected financial delivery for 2019 = 94.67 %

Overall Project Delivery (2014-2019) = 98.83%

Way forward/next steps

- Transfer/disposal of project asset
- Preparation of donor report (Project Performance Report
- Preparation of Project Completion Report
- Project Closure - as per UNDP/AF requirements



“Once you carry your own water you will learn the value of every drop”

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