



**Strengthening watershed Management through Rehabilitation,
reforestation of Denuded Community Areas and Farm Boundaries
in Nyaung U, Myingyan, Chauk, Shwebo and Monywa
(2016/ PROC/ UNDP-MMR/023)**

Project Completion Report

5 Dec, 2018



Strengthen watershed through
rehabilitation, reforestation of
denuded community areas and Farm
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Myinchau, Nyaung U and Chauk
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Addressing Climate Risks on Water Resources and Food

Security in the Dry-Zone of Myanmar

5 Dec, 2018

Submitted by

Community Development Action

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Abbreviation

UNDP	United Nations Development Programme
DZGD	Dry Zone Greening Department
FD	Forest Department
IP	Implementation Party
RP	Responsible Party
CSO	Civil Society Organization
CD Action	Community Development Action
FB	Farm boundary
PL	Public Land
NU	Nyaung U township
C	Chauk township
MC	Myinchan Township
SB	Shwebo Township
MY	Monywa Township
JSC	Joint Survival Counting

Acknowledgement

CD Action would like to thank to UNDP Myanmar for getting chance to implement this project. Much appreciated to Project Manager, National Project Manager and team of this project for your kind support and understandings throughout the project period.

Also thanks to the Director General of Dry Zone Greening Department and staff for the guidance and supporting in implementing this project successfully.

Last, not least to the Project Manager and team of CD Action for their hard work during the implementation of project.

Chairman
Community Development Action

1. Introduction

UNDP Myanmar, with funding from adaptation Fund, implementing the climate change Adaptation project “Addressing Climate Change Risk on Water Resources and Food Security” in Dry Zone of Myanmar “The project aim to reduce the increasing impacts of climate change in agriculture, environment livestock production cycles in the Dry Zone of Myanmar the impact increasing temperature evaporation, declining water availability and intensifying weather events especially flash food and cyclones.

Community Development Action (CD Action) conducted this project as an implementing partner (IP) for UNDP.

The Project targets approximately 5,000 household of 280 villages in five townships. CD Action implemented activities related to reforestation of denuded community areas such as farm boundaries and public land areas.

The scope of services assigned to CD Action were as follow.

Addressing Climatic Risk on Water Resources and Food Security in the Dry Zone of Myanmar Strengthen water shed through rehabilitation, reforestation of denuded community areas and Farm boundaries in Shwebo, Monywa, Myinchan, Nyaung

CDA carried out the activities in three years in 2016/2017 and 2018, but actual work duration set by UNDP is 4 months in 2016 and 2017 and six months in 2018, with the total working months is fourteen. This report is submitted to UNDP for record and for evaluation of the project conducted by CD Action.

Key Activity	Sub Activity
1.2.7 Afforestation in religious and school compound, dam boundaries road side and gaps in communal areas covering 1360 hectares	Tree planting in 269.23 areas of public land in 141 villages in five townships
1.3.6 3400 heater as form boundaries planting in 100 villages.	To plant farm boundaries (3705) acres in 120 villages of five townships

2. Objectives of assignment and Impacts

UNDP Myanmar, with funding from Adaptation Fund, will be implementing the Climate Change Adaptation Project “Addressing Climate Change Risks on Water Resources and Food Security in the Dry Zone of Myanmar.” The project aims to reduce the increasing impacts of climate change on agricultural, environment and livestock production cycles in the dry zone of Myanmar – the impacts of increasing temperature and evaporation, declining water availability, and intensifying weather events especially flash floods and cyclones.

The Dry Zone is one of the most climate sensitive and natural resource poor regions in Myanmar and is vulnerable to growing food insecurity and severe environmental degradation. The objective of the project is to reduce the vulnerability of communities and increase adaptive to respond to the impacts of climate change in Myanmar’s Dry Zone.

The project targets approximately 50,000 households from 280 villages. The target population is a critical constraint in building the resilience of these communities to future climate change impact. The main project aims to deliver the following key outputs to build community resilience to climate change:

1. Enhancing water capture and storage capacities in 280 villages to augment irrigation and domestic water supply during the dry periods
2. Protecting and rehabilitating 4,200 hectares of micro-watersheds through Farmer-Managed Natural Regeneration (FMNR) to increase natural water retention and reduce erosion
3. Establishing 5,100 hectares of community-based agro-forestry plots in private and communal lands to conserve soil and water
4. Introducing drought-resilient farming methods
5. Introducing resilient post-harvest processing and storages systems
6. Introducing diversified livestock production systems targeting landless households Farmers with access to land title are expected to directly benefit from Output 1 through an improved access to irrigation and/or domestic water supplies. Landless households are expected

to derive direct benefits through diversified livestock assets and improved ecosystem services (such as greater availability of non-forest products and more reliable freshwater supply).

Community engagement during the planning and implementation of the above-mentioned activities is important for two reasons. First, communities will derive indirect benefits from greater opportunities for manual labor in water, forestry and agroforestry-related components of the project. Second, in the special context of Myanmar, community participation in development activities is a means to empowerment. Moreover, through activities under Output 1, the project aims to transfer management rights of community forests to communities under Community Forestry Instructions.

The investments in rehabilitation, regeneration, and afforestation, reforestation of community forests will be supplemented by reforesting denuded community areas which are part of micro-watersheds in the Dry patches of forests of varying size. It is evident that existing forest patches in the village periphery are extremely small, the village is surrounded by exposed farm lands, farm boundary trees are thin and sporadic, and roadside and communal pond boundaries are almost completely denuded. In these vegetation for soil arrest and sub-surface water retention (apart from greater viability for agro-forestry) whereas afforestation in available communal areas (such as roadsides, schools and religious compounds), which are usually located in the outer boundaries of the village, would provide an additional buffer against erosion, increase nitrogen fixation and prevent localized floods.

The ask for Community Development Action was reforestation of denuded community areas such as farm boundaries and public/communal land areas (schools and religious compounds, dams, roadside and communal pond boundaries which related to the main project. The location of project is in Shwebo, Monywa, Myingyan, Nyaung U and Chauk Township.

Description of Project

3. Description of Project

3.1 Title and UNDP reference

Strengthening through Rehabilitation/ Reforestation of Denuded Community Areas and Farm Boundaries in Shwebo, Monywa, Myingyan, Nyaung U and Chauk Town ships.

Project Reference No: - 2016 / PROC / UNDP – MMR / 023

3.2 Total Project Budget

Total budget was MMK 332,6678,310. The original budget amount was MMK 31736091, but according to the amendment contact, the budget increased MMK 15306,400.

3.3 Project Duration

The duration of project was divided into three phases. Total work duration (14) month, 5 which was four months in 2016, another four months in 2017 and six months in 2018 respectively.

The original project duration of the assignment were as follow: -

Phase	DURATION		Total Months
	FROM	TO	
Phase (I)	Sep 2016	Dec 2016	4
Phase (II)	June 2017	Sep 2017	4
Phase (III)	June 2018	Oct 2018	4
Total			12

The actual project duration according to the negotiation with IP and RP the duration were changed as per table with two months extension in third phase (year 2018)

Phase	DURATION		Total Months
	FROM	TO	
Phase (I)	10 th Oct 2016	9 th Feb 2016	4
Phase (II)	1 st May 2017	31 st July 2017	4
Phase (III)	1 st Apr 2018	30 th Sept 2018	6
Total			14

Although the project termination date was 30 Sept 2018, the CD Action staff were in the project area unit second week of October to implement of material hand over and plant hand over activities.

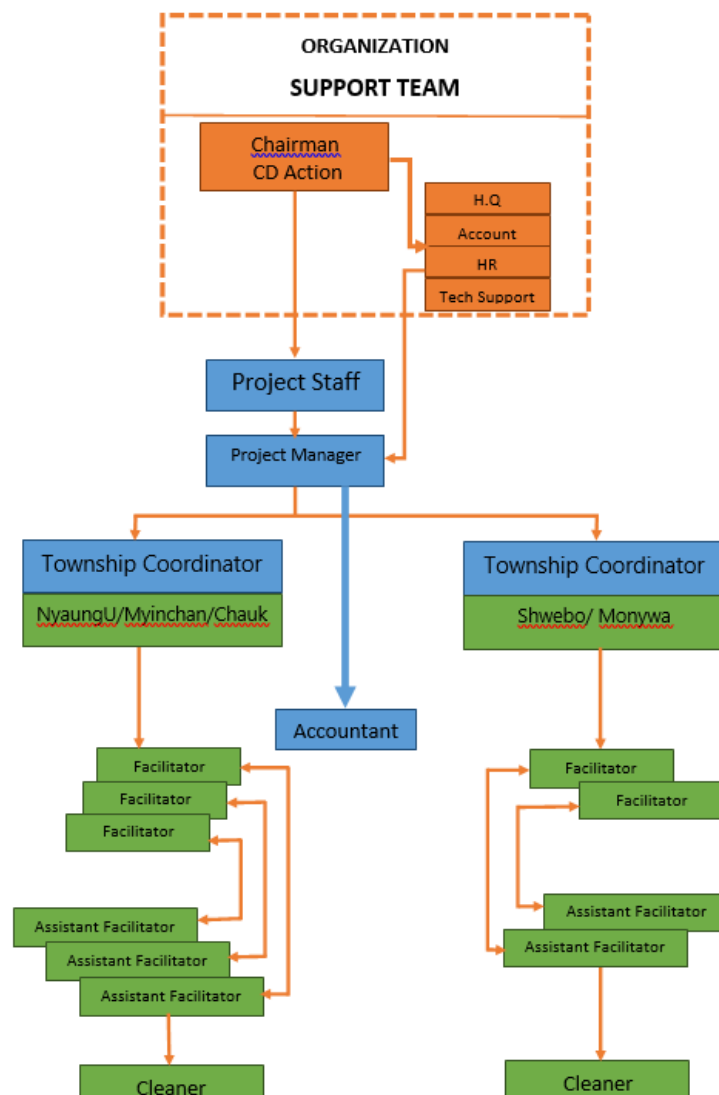
3.4 Implementation Partner (IP)

UNDP engaged to community Development Action (CD Action) in order to perform Project Implementation services Affordable technology innovation for rural communities.

CD Action is Non-governmental organization, formed under Union Registration Board of the Union of Myanmar, vide registration No-1/ Pyitwin/0053 dt: 8th April, 2016. But community development activities were done since early 2015. The project staff consist of one project Manager, two township coordinators, five facilitators, five assistant facilitators, one accountant and two cleaners. The organization structure of IP is mentioned in diagram (1)

The project is supported and monitored by the chairman of CD Action and team.

Diagram (1) Organization of CD Action's Project staff



4. Implementation Strategy

The main objectives of the project is to reduce vulnerability of farmers in Dry Zone of Myanmar to increasing drought and rainfall variability, and enhance the capacity of farmer to plan for and respond to future impacts of climatic change on food security, which aligned with Adaptation fund, to reduce and respond to the impacts of climate change.

In addition, the project aligned with the National Sustainable Development Strategy (NSDS) which aims to achieve sustainable management of natural resources, integrated economic development, and sustainable social development.

The strategy of this project component is to promote greenery of the environment with full participation of the local people in order to achieve indirect benefit for their present and future generations.

To implement the above objectives related to reforestation of denuded community areas- such as farm boundaries (FB) and Public and communal land areas (Schools and religious compounds) dams, roadside and communal pond boundaries in five townships, Shwebo, Monywa, Myingyan, Nyaung U and Chauk.



5. Implementation Plan

The overall objectives is improve/ enhance corridors of vegetation for soil arrest and sub-surface water retention, as well as provide buffer against erosion, to prevent localize floods through afforestation/ reforestation of farm boundaries and communal areas(such as roadsides, schools and religious compound in five townships.



5.1 Plan for Public land tree Planting

- (a) Make necessary arrangements for pit digging (1.5'x1.5'x1.5') with distance between pits of 15 feet in public land areas (roadsides, schools, religious compounds, clinics, etc) in selected villages to cover 138.5 ha (342.1 acres) for 2016 by consultation with village administrators, religious leaders, villagers and related line departments such as education, health etc.
- (b) Organize the similar arrangements for 2017 and 2018. To organize tree planting ceremonies in some villages by consultation with local Administration and UNDP Forest Specialist in 2016, 2017 and 2018.
- (c) Coordinate with village leaders to collect enough borrow soil in reasonable price and use the borrow soil for planting. The responsible party needs to arrange the transportation of borrow soil to the plantation sites. Ensure watering before (one week) and after planting into each pit (5 gallons of water) and provision of branches and bamboo pieces for fencing, bio fences etc. If there is no rain within one week after planting, bamboo arrange watering for planted trees.
- (d) Ensure bio-fences are in place for trees alongside of the roads, and give necessary instruction for livestock owners to keep their livestock away from the planted trees after tree planting in consultation with village Administrators.
- (e) Conduct survival counting one month after tree planting and organize necessary arrangements for patching and keep record. Targeted survival rate is 90% after patching.

5.2 Plan for Farm boundary tree Planting

- (a) Ensure and supervise pit digging (1.5'x1.5'x1.5') with distance between pits of 15 feet in farm boundary areas to cover 84.5 ha (208.8 acres) for 2016 by consultation with farmers. The Responsible Party has to monitor the number of pits dug by individual farmers and make payments for pit digging, provide required seedlings and maintain all records for submission to UNDP.
- (b) Ensure in consultation with farmers to watering the planted trees if there is no rain one week after tree planting.
- (c) Organize and ensure the similar arrangements to plant in the farm boundaries of 501.9 ha (1262 ac) for 2017 and 306 ha (756 ac) for 2018.
- (d) Ensure distribution of seedlings on time to the farmers to their respective farm for farm boundary plantation in each parts of implementation (Preferably in June of 2017 and 2018).
- (e) Ensure monitoring and counting the number of trees planted in the respective farms.
- (f) Conduct survival counting one month after tree planting and organize necessary arrangements for patching and keep record. Targeted survival rate is 90% after patching.

5.3 Target Acreage

The target acreage per year for this assignment are as follows. But in implementation there were adjustments depends on the land availability.

Table (1) Targeted acreage of project.

Year	Planting of		
	F B (acres)	P L (acres)	Total (acres)
2016	57.798	494	551.798
2017	122.018	1605.5	1727.518
2018	89.414	1605.5	1694.914
Total	269.23	3705	3974.23

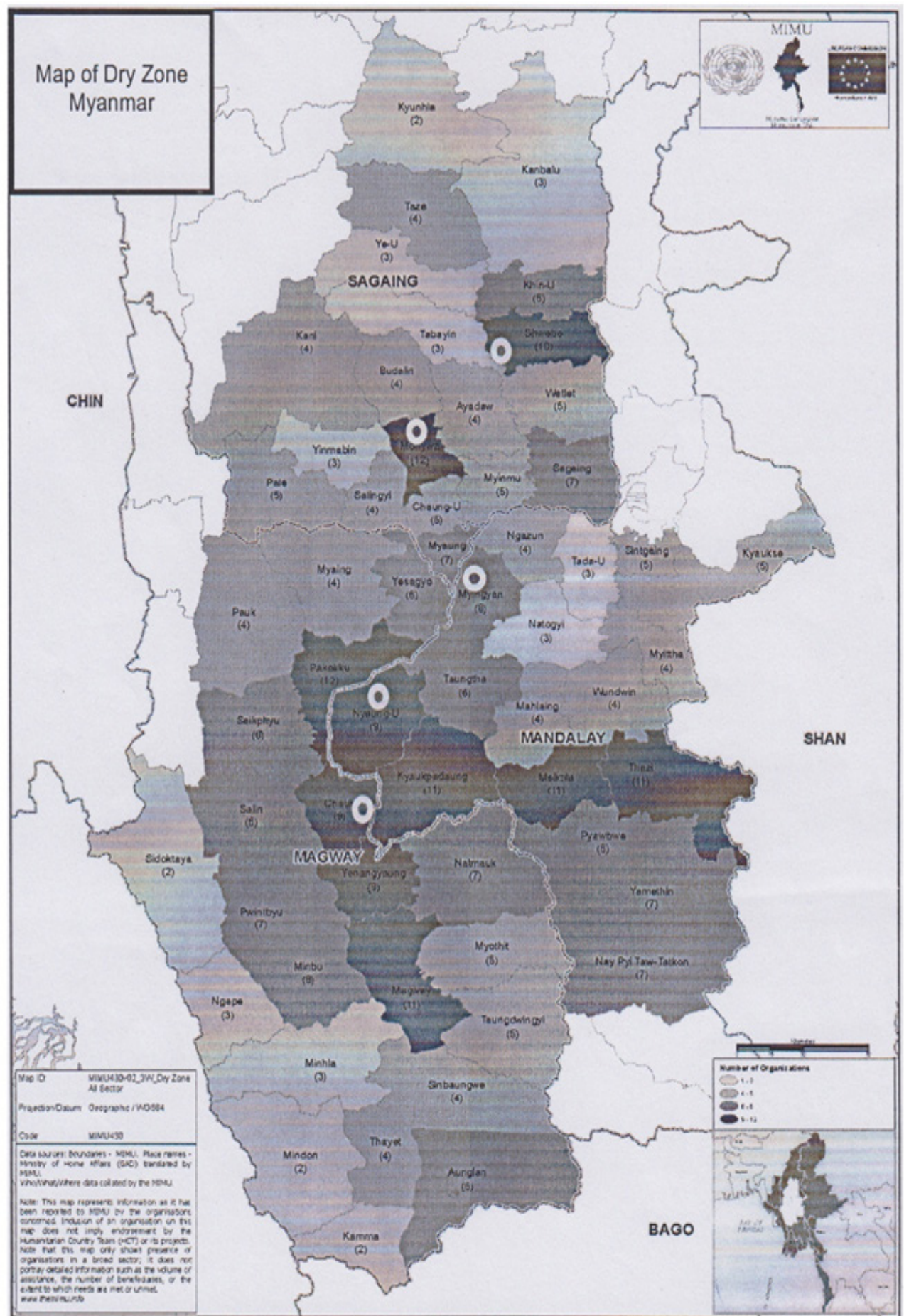
5.4 Location Work

The project located in 280 villages of five township in three regions specified in table below.

Table (2) Number of Villages Implemented in Project Area

Sr	Region	Township	Total no.of target village
1.	Sagaing	Shwebo	40
		Monywa	44
2.	Mandalay	Myingyan	45
		Nyaung U	47
3.	Magway	Chauk	28
Total	3	5	204

Diagram (2) Location Map of the whole Project Townships.



Township wise location map are shown in appendix C,D,E,F and G.



5 .5 Rainfall Data

Rainfall precipitation of NU and MY are shown in table below

Table (3) Rainfall Data for 2016, 2017 and 2018

Year/ Month	Township			
	Monywa		Nyaung U	
	R F (Inches)	Rainy Day	R F (Inches)	Rainy Day
2016				
January				
February	.04	1	-	-
March	-			
April	.67	2	-	-
May	2.36	9	2.52	5
June	1.57	7	2.32	10
July	3.82	7	1.81	4
August	9.96	9	7.71	11
September	6.89	10	4.74	13
October	7.65	13	5.88	12
November	1.53	6	3.95	6
December	-	-	-	-
Total	34.49	64	28.93	61



Rainfall Data

Year/ Month	Township			
	Monywa		Nyaung U	
	R F (Inches)	Rainy Day	R F (Inches)	Rainy Day
2017				
January	-	-	-	-
February	-	-	-	-
March	.67	2	-	-
April	1.49	2	4.25	5
May	9.89	11	5.84	9
June	.47	1	0.98	4
July	3.46	8	3.58	9
August	5.98	11	0.56	2
September	4.88	7	4.08	-
October	11.6	9	1.04	10
November	-	1	0.32	2
December	0.32	-		2
Total	38.85	52	25.13	46



Year/ Month	Township			
	Monywa		Nyaung U	
	R F (Inches)	Rainy Day	R F (Inches)	Rainy Day
2018				
January	1.14	4	1.65	3
February	-	-	-	-
March	-	-	-	-
April	3.9	5	-	-
May	8.54	10	7.56	-
June	7.52	12	5.84	4
July	3.74	6	2.64	9
August	1.15	6	1.77	2
September	5.43	6	3.86	3
October	NA	NA	.87	4
November	-	-	-	4
December	-	-	-	-
Total	31.42	49	22.54	32



Source
Metrology
Department



5.6 Deliverables and time frame

No	Deliverable	Time Frame	Remark
1.	Submission of detail work plan for assignment, monitoring framework with clear and realistic indicators	2 weeks after signing contract	
2.	List of villages and area coverage for public land and farm boundary tree planting for 2016	3 weeks after signing contract	Submit brief report to UNDP
3.	Consult with respective departments and community to identify public land for tree planting in 2016 (availability of land, suitable type of tree species, availability of borrow soil, transportation arrangement, and suitable time for tree planting)	1 month after signing contract	Brief report
4.	List of villages, seedling requirement and area coverage for public land planting and list of villages, farmers, acres and seedling requirement for farm boundary tree planting for 2017 and 2018	4 month after signing contract	Submit Assessment Report to UNDP
5.	Arrange seedling transportation from nursery to planting site for 2016 public land tree planting	1 month after signing contract	

Deliverables and time Frame

No	Deliverable	Time Frame	Remark
6.	Organize participatory tree planting in selected public places such as school, clinic, religious compound and <u>road side</u> . Invite village authority, Township authority (wherever possible) and related departments ensuring to plant 9826 seedlings in selected villages for 2016.	6 weeks after signing contract	
7.	Identify villages, list of farmers and area coverage for farm boundary tree planting to cover 494 acres in 5 townships to grow 83980 seedlings.	One month after signing contract	
8.	Arrange and organize farm boundary tree planting in consultation with village leaders and farmers for pit digging along proposed farm boundaries, checking and counting of pits, arrangement for borrow soil and provision of tree seedlings (put in the 7 inches*3 inches poly bag)	5 weeks after signing contract	
9.	Arrange and supervise watering of tree planted and fence with bamboo and nylon net	Just after tree planting	
10.	Check survival rate and organize necessary arrangements for patching one month after planting to ensure 90% survival after patching.	10 weeks after signing contract	
11.	Survival counting one month after planting for both public land and farm boundary tree planting in 2016	3 months after signing contract	
12.	Submit patching procedure and number of seedlings used for patching in the respective monthly report.	4 months after signing contract	A brief report
13.	Arrange seedling transportation from nursery to planting site for 2017 planting	Last week of June 2017	Detail work plan
14.	Make necessary agreement for farm boundary tree planting in 2017 to plant 240,825 seedlings.	1 st week of July 2017	
15.	Organize participatory tree planting ceremonies in selected public places such as school, clinic, religious compound and <u>road side</u> . Make sure to invite villages authority, Township authority (wherever possible) and related departments and plant 18,303 seedlings in selected villages during 2017	1 st week of July 2017	
16.	Arrange and supervise watering of tree planted if necessary and fence with bamboo and nylon net.	Just after tree planting	
17.	Arrange and organize farm boundary tree planting in consultation with village leaders for pit digging along proposed farm boundaries, checking and counting of pits, arrangement for borrow soil and provision of tree seedlings.	July 2017	
18.	Survival counting one month after tree planting for	August 2017	

Deliverables and time Frame

	both public land and farm boundary tree planting in 2017		
19.	Ensure patching for 2017 public land and farm boundary tree planting after survival counting to reach final 90% survival rate in coordinating with village leaders and farmers by arranging seedlings and borrow soil for patching, necessary watering after patching, etc. Submit patching procedure and number of seedlings in a brief report.	September 2017	Completion report
20.	Make necessary agreement for farm boundary tree planting in selected villages for 2018 to plant 240,825 seedlings.	June 2018	Detail work plan
21.	Organize participatory tree planting ceremonies in selected public places such as school, clinic, religious compound and <u>road side</u> . Make sure to invite village authority, Township authority (wherever possible) and related departments and plan 13,412 seedlings in selected villages for 2018	July 2018	
22.	Arrange and supervise watering of tree planted and fence with bamboo and nylon net	Just after tree planting in the public land	
23.	Survival counting on e month after tree planning for both public land and farm boundary tree planting in 2018	August 2018	
24.	Ensure patching for 2017 public land and farm boundary tree planting after survival rate in coordinating with village leaders and farmers by arranging seedlings and borrow soil for patching, necessary watering after patching, etc. Submit patching procedure and number of seedlings in a brief report.	September 2018	
25.	Collaborate and cooperate with UNDP project team and related line departments such as forest department and dry Zone greening department in their monitoring visits to the community	Occasionally	
26.	Completion report	December, 2016 September, 2017 September, 2018	
27.	Final report and audit report	December 2018	

Summary of Project Implementation under the assignment

6. Summary of Project implementation under the assignment

Summary of project activities done in Phase I, Phase II and Phase III in the whole project areas are shown in the following table and result of survival in Diagram (3).

Table (4) Summary of Project Implementation in Phase I,II and III

	Township	Phase I			Phase II			Phase III		
		Date	No. of seedling	Survival %	Date	No. of seedling	Survival %	Date	No. of seedling	Survival %
Handover of seedling		11.10.2016 to 20.10.2016	951950	-	10.10.2016 to 20.10.2016	277995	-	-	270921	-
Transportation of seedling			FB - 31327	-	-	FB - 171654	-	-	FB - 141295	-
			PL - 51355			PL - 64642			PL - 87987	
Planting	Nyaung U	8 villages	FB - 7340	94.53	21 village	FB - 37065	98.01	18 village	FB - 40514	FB - 88
			PL -13060			PL - 19204	95.14		PL - 16530	PL - 85.9
	Mingyan	9 villages	FB - 3248	87.99	24 village	FB - 29431	95.61	12 village	FB - 27922	FB - 85.9
			PL - 12202			PL - 15621	90.57		PL - 11924	PL - 85
	Chauk	7 villages	FB - 3052	92.17	15 village	FB - 29856	95.39	6 village	FB - 27080	FB - 84.4
			PL - 11498			PL - 12400	93.49		PL - 16140	PL - 85.2
	Monywa	8 villages	FB - 11487	90.91	19 village	FB - 37135	91.98	17 village	FB - 23012	FB - 94.5
			PL - 5495			PL - 9047	93.2		PL - 19883	PL - 91.9
	Shwebo	12 villages	FB -6200	95.02	17 village	FB - 38167	90.46	11 village	FB - 22767	FB - 93.6
			PL - 9100			PL - 8370	94.03		PL - 23510	PL - 92.2
Grand Total		44 village	FB - 31327	-	96 village	FB - 171654	-	64 village	FB - 141295	-
			PL - 51355			PL - 64642			PL - 87987	
Patching						51200			56861	

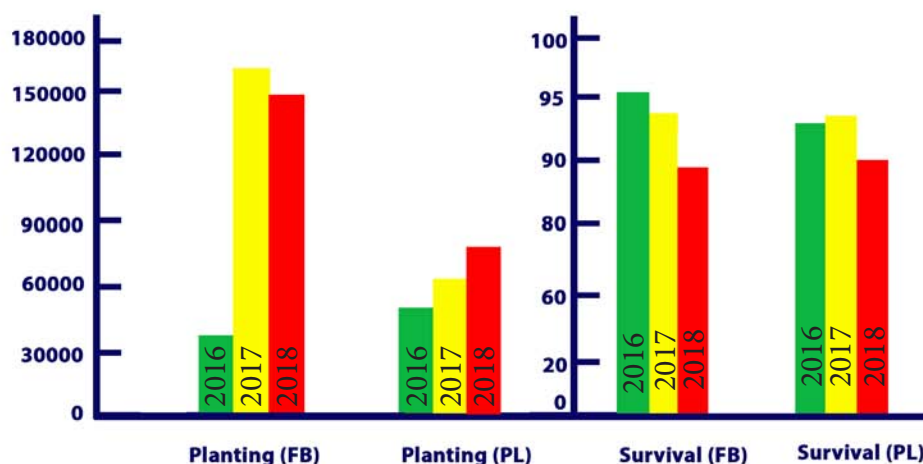


Diagram (3) Comparson on planting and survival



6.1 Review on Planting

2016 planting started lately at 20th Oct 2016 and complete in end November 2016. If you checked the rain fall date there were only 9.83 inches with 18 rainy days in Nyaung U and 9.18 inches on 19 rainy days in Monywa township. There were no rains in Dec 2016, Jan and February, 2017 (Table-3). It means that the plant get rainfall less than 9 inches.

Although survived about over 90 percent in December 2016 survival counting but because of short period the trees to be developed, so survival percentage drop down in the dry season 2016 plantation were patched with reserved 15 % of seedlings for patching as well as the own arranged seedling stocks in 2017 rain.

In 2017 planting, the planting operation done between. 15th June to 29th July 2017. The rainfall is not so bad for this year (The rainfall favored for tree planting some extent). The result of counting seem pretty good in August survival in 2018 April found lost of seedlings because of drought and animal chewing. We have patched with the extra 15% seedling and purchased seedlings.

Regards on condition of 2018 planting, we had received seedling from UNDP in mid May for first batch and 26th June for second batch. We started planting in middle May used with the first batch received seedlings. After we had been received second batch seedling after 26th June there were drought in July and August, so we can completed the planting in the early September, which also late planting.

In public land survival and growth in school and monetary compound because as regular watering and care. In farm boundaries the survival of Shawphyu, Thanakha and Sandalwood is high because of the interacted and cared by land users.

Detail Implementation Under the Assignment



7. Implementation in 2016

The duration for first phase (2016) was between 10th October 2016-9, Feb 2017. Before project started orientation meeting had attended by CDA team at UNDP project Manager Office on 10th and 11th October 2016 before kickoff. The implementation of planting in 2016 is shown in table (5)

Table(5) Implementation of planting in 2016

Township	No of Village	Planted				Total	
		FB		PL			
		Acre	Seedling	Acre	Seedling	Acre	Seedling
Nyaung U	8	48.9	7,340	87	13,060	136	20,400
Myingyan	9	21.6	3,248	81.3	12,202	103.1	15,450
Chauk	7	20.3	3,052	76.6	11,498	97	14,550
Shwebo	12	41.3	6,200	60.6	9,100	102	15,300
Monywa	8	76.5	11,487	36.6	5,495	113	16,982
Total	44	208.8	31,327	342.1	51,355	551.1	82,682

Orientation and Meeting with village

7.1 Orientation and Meeting with village



Met with each village administrator, villagers and farmer regard on the implementation. The meeting was conducted between (13.10.16) & (22.10.16) in the villages of five townships.

CDA team explained about the Project and organized them to participate land verification for FB and PL planting was due to discussion and conditions. The meeting and talking with community are shown in Table (6)

Table(6) Meeting and talking with community.

Sr No.	Township	Date		No. Village	Meeting Participants	Consultation
1.	Myingyan	13.10.2016	19.10.2016	8 villages	Coordinator, 2FF and 66 villagers	Bawsakaing, mazeli and eucalyptus species are not much quantity to plan
2.	Nyaung U	13.10.2016	20.10.2016	8 villages	PM, 2FF and 52 Villagers	Villagers don't like Bawsakaing and Eucalyptus species
3.	Chauk	14.10.2016	20.10.2016	6 villages	2FF and 66 villagers	Villagers do not like to plant Eucalyptus and Bawsakaing species
4.	Monywa	14.10.2016	20.10.2016	7 villages	2FF with 31 villagers	Agreed on all species and land possibility
5.	Shwebo	13.10.2016	22.10.2016	12 villages	2FF with 77 villagers	Farmer not interest to plant



In brief according to the assessment survey and discussion the villagers did not want to plant Eucalyptus, Bawzakaing, Mezali and Maggyi, they preferred Shawphyu, Thanakha, Sandalwood, Yinmar and Kokko

7.2 Implementation

Staking was firstly done and follows lay pit digging. The pit size was $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$. Before accepted by IP team the pits were filled with soil and manure mixture. IP team demonstrated and strictly checked to meet standard specification.



7.3 Hand over of Seedlings



IP team accepted the seedlings from UNDP/ DGDG between (11.10.2016) to (20.10.2016). The seedlings were transported to the villages based on the target area.



7.4 Engagement of labor for planting

Township coordinator, field facilitator, village elder persons, villagers together labor selection for pit digging. The cost of pit digging was 200 MMK per pit, borrow soil and cow dung and planting charge cost is 50 MMK per pit. The cost for seedling transportation and loading and unloading are 63 MMK per seedling. Therefore IP used 313 MMK for one pit tree planting. IP Focus women headed household, landless and marginal farmers for tree planting in public land and farm boundary for labor selection.

ENGAGEMENT



7.5 Planting

The total number of planted trees by villagers are shown in table(7).

Table(7) Township village wise Planted Trees in 2016

Sr.	Township	Village	Farm Boundary Tree Planting	Public Land Tree Planting						Grand Total
				Road side	Religious compound	School	Clinic	Pond Boundary	Total	
1	Nyaung U	Ywar Tha Aye	1500	383	382	120		120	1005	2505
		Yan San	1800	1085	510	200		336	2131	3931
		Let Pan Te		307	558	197			1062	1062
		Kan Ni Pouk	1300	820	195	156		284	1455	2755
		Su Te		851	400	2250	160	93	3754	3754
		Hta Naung Wun	120		100	150		1780	2030	2150
		Kaung Nyo	1500	400	25	150		155	730	2230
		Kyauk kan	1120	198	295	250		150	893	2013
Total for Nyaung U		8 Villages	7340	4044	2465	3473	160	2918	13060	20400
2	Myingyan	Tu Ywin Bo	1216	1016	1080	338		400	2834	4050
		Kun Seik	250	1090	490	480	30		2090	2340
		Chay Say		1300		300			1600	1600
		Te Ywa		400	100			100	600	600
		Du Wun	1100		100	100			200	1300
		Ku Ywa	600	700	400	300			1400	2000
		ka Nyit Kan	32	545	1100	157		166	1968	2000
		Koke ke Ywa		160				1000	1160	1160
Total for Myingyan		9 Villages	3248	5211	3320	1975	30	1666	12202	15450
3	Chauk	Sin Ka	1505	920	300	150	100	250	1720	3225
		Chaung Tek	47	1500	156	100	97	400	2253	2300
		Taung Nauk	1500	1001	64	15		22	1102	2602
		Wa Yar Kone		1160	100	70		70	1400	1400
		Twin Latt		1119	1606	475			3200	3200410
		Ma Gyi Zauk(E)		410	60	50		680	1200	1200
		Ma Gyi Zauk(W)			42			581	623	623
Total for Chauk		7 Villages	3052	6110	2328	860	197	2003	11498	14550
4	Monywa	Pa Lin (N)	663	—	25	20			45	708
		Pa Lin (S)	52	—	17	12			29	81
		Myin Mee Laung	257	400	3	80			483	740
		Than Pyay Pin	106		125	78			203	309
		Kaing Taw	1679		412	50			462	2141
		Nyaung Pin Tae	3000	100		115		55	270	3270
		Taung Gyar	1490		50	200		500	750	2240
		Kyauk Khwet	4240	3131		122			3253	7493
		8 villages	11487	3631	632	677		555	5495	16982
5	Shwebo	Peik Taw			950	850	300		2100	2100
		Ta Ohn	1120		200	300			500	1620
		Te Gyi		1500	700	1100			3300	3300
		Tae Pin	650							650
		Ohn Pauk			250	100			350	350
		Hta Naung Wun	2080	40	860	50	300		1250	3330
		Kaw Ywa		635		65			700	700
		Koe Pin				200			200	200
		Na Maw			100	100			200	200
		Maung Tet	800		188	112			300	1100
		Min Bay			110	90			200	200
		Min Ywa	1550							1550
12 villages		6200	2175	3358	2967	600		9100	15300	
Grand Total		44 villages	31327	21171	12108	9952	987	7142	51355	82682

7.6 Monitoring and Survival Counting

Survival counting was done between (5.12.2016) to (14.12.2016) in five Townships using random sampling with environment and forestry specialist, Township coordinators and facilitators together counted survival plant trees and dead tree and result of average survival percent is 92.65 % in Farm boundary and 93.98 % in Public land. After counting survival result of planted trees are shown in table (8). In the survival counting process, DZGD and FD staffs not included because we can't use government staffs without permission of superior government officials. But DZGD has planned to do joint survival counting in May 2017.

Table (8) Summary of tree survival percent in 2016

Township	Planted (No of Seedling)		Survival % Average	Date of counting
	FB	PL		
Nyaung U	7,340	13,060	94.53	5 Dec 2016 – 6 Dec 2016
Chauk	3,052	11,498	92.17	7 Dec 2016 – 8 Dec 2016
Myingyan	3,248	12,202	87.99	9 Dec 2016 – 10 Dec 2016
Monywa	11,487	5,495	90.91	12 Dec 2016 – 13 Dec 2016
Shwebo	6,200	9,100	95.02	13 Dec 2016 – 14 Dec 2016
Total No	31,327	51,355	-	
Average Survival	92.65	93.98	-	

7.7 Arrangement for Patching

In 2016, seedlings quantities 82682 were planted in PL and FB areas out of the seedling quantity (95190) which was received from nurseries. Remaining (12508) seedling, quantity (3134 in Nyaung U, (2259) in Myingyan, (2340) in Chauk, (2514) in Monywa and (2261) in Shwebo) were in DZGD nurseries in 5-Townships and take care with nurseries staffs. The expenditure for maintain seedlings up to last week of May, 2017 had paid by CD Action. At before 1st rain start in 2017, patching activity have been done. According to the result of survival counting, seedlings are replaced in dead planted seedling by CD Action team. CD Action team had responded patching by organizing monks, school teachers, village administrators, villagers and farmers. There were no budget from UNDP for patching operations.

7.8 Plan for Sustainability

Follow up action have been done to take care on planted trees from damaging by animals and regular watering by villagers especially on pond side, monastery, school ect.

IP team had leaved from the project area in February so only way for

sustainability depend on the interested of villagers. The villagers did maintain in some extent but not fully done. For sustainability an continue should be gave incentivees to the active group.

8. Implementation in Phase (II) 2017

The project duration was between (1st May 2017) to 31st July 2017. CD Action team discussed with village leaders of (105) villages during 1-15 May 2017. Detail target for 2017 is attached in table (9)

Table (9) Implementation of planting in 2017

Township	No of Village	Planted				Total	
		FB		PL			
		Acre	Seedling	Acre	Seedling	Acre	Seedling
Nyaung U	21	272.5	37,065	141	19,204	413.7	56,269
Myingyan	24	216.4	29,431	114.8	15,621	331	45,052
Chauk	15	219.5	29,865	91	12,400	310.7	42,256
Shwebo	17	280.6	38,167	66.5	9,047	347	47,214
Monywa	19	273	37,135	61.5	8,370	334.5	45,505
Total	96	1,262	1,71,654	475	64,642	1737.4	2,36,296

The village-wise planting list is shown in appendix (A)

8.1 Activities Implemented

The activities done were same as 2016. The diary for the activities are shown in table (10).

Table (10) working diary for activities done in 2017 planting.

Activities	NU	MC	C	SB	MY
Orientation	1-15 M	1-5 M	1-15 M	1-15 M	1-15
Digging	1 st May 15 June 2015				
Planting	15 June – 29 July				
Patching	During the rainy Season				

8.2 Planting Ceremony

Tree planting ceremonies had been conducted in five villages within the targeted five township. Detail of event are presented in following table.

Table (11) Planting Ceremony in 2017

Township	Village Name	Commence dt	Participation
Nyaung U	Chaung she	22 June 2017	Male 60 + Female 30
Myingyan	Chin Myit Chin	14 June 2017	Male 65 + Female 45
Chauk	San Kan	24 June 2017	Male 60 + Female 33
Shwebo	Taganan	29 June 2017	Male 30 + Female 15
Monywa	Indaing	30 June 2017	Male 46 + Female 126



At the event donation for student were also done.

8.3 Seedling Handover



Out of transferred seedling 15% of seedling were reserved in the nursery for 2018 rain patching. The rest were transported to the villages. The species were Shawphyu, Thana-kha, Maggyi, Mazeli, Sandalwood, Kokko, Yinmar, Tamar, Eucalytus and Bawzagaing.

Seedling were hand over from UNDP as per following tables.

Township	Handover date		No of Species	No of Seedlings
	From	To		
Nyaung U	10.10.2016	12.10.2016	10	64,709
Myingyan	13.10.2016	14.10.2016	10	48,586
Chauk	15.10.2016	16.10.2016	10	51,802
Shwebo	18.10.2016	19.10.2016	10	51,530
Monywa	19.10.2016	20.10.2016	10	54,294

Table (12) List of seedling hand over from UNDP in 2017

8.4 Patching Activities

In 2017 the patching for 2016 plantations and 2017 plantation was done very heavily. Because of the late planted in 2016, patching was done heavily in 2017 rain some areas were patched throughout the season.

Especially patching operation done in August 2017. The total seedling patched was (51,200) seedlings.

8.5 Joint Survival Counting (JSC)

For the objectives of to evaluate the level of success of planting and to check the number of seedlings final survival counting was done during 24 August to 11th September, 2018. List of participants of JSC and implemented date are shown in table (13)

Table (13) Participants of JSC team

SR	Township	Member		
		UNDP	FD/DZGD	CD Action
1.	Nyaung U	U Kyaw Zin	FD/DZGD	U ThetZaw,
2.	Myingyan	Aung Soe		Fasilitator,
3.	Chauk	Forestry		Assistant
4.	Monywa	Specialist		Facilitator
5.	Shwebo			

JSC team conducted in all villages. The finding of survival count are presented in table (14)

Table (14) Result of survival counting in 2017 plantation

Sr. No.	Township	# of Villages	Public Land			Farm Boundary			Total			Remark
			Planted	Survived	Sur %	Planted	Survived	Sur %	Planted	Survived	Sur %	
1	Nyaung U	21	19204	18272	95.14	37065	36330	98.01	56269	54602	97.03	
2	Chauk	15	12400	11593	93.49	29856	28482	95.39	422565	40075	94.83	
3	Myingyan	24	15621	14149	90.57	29431	28141	95.61	45052	42290	93.86	
4	Monywa	19	8370	7801	93.2	37135	34159	91.98	45505	41960	92.2	
5	Shwebo	17	9047	8507	94.03	38167	34528	90.46	47214	43035	91.14	
Total		96	64642	60322	93.31	171654	161640	94.16	236296	221962	93.93	

8.6 Plan for Sustainability

CD Action team provided awareness to the village leaders, teacher's regards on the conservation of forest. CD Action organized the community to maintain the planted tree. Hope fully they will keep maintain the planted trees for sustainability.

9. Implementation in 2018

Originally the duration for phase (III) is four months, but according to the requirement for successful of the planting two month extended in phase (III) 2018. The project duration started in April 2018 and terminated the operation at end of September 2018, but the administrative activities, finance auditing, completion report preparation and handover were done in Oct 2018.

The implementation activities in 2018 were the same as 2016 and 2017.

Table (15) Implementation of planting in 2018

Township	No of Village	Planted				Total	
		FB		PL			
		Acre	Seedling	Acre	Seedling	Acre	Seedling
Nyaung U	18	216.6	40,514	88.4	16,530	305	57,044
Myingyan	12	149	27,922	63.7	11,924	213	39,846
Chauk	6	144.8	27,080	86	16,140	231	43,220
Shwebo	11	121.7	22,767	125.7	23,510	242	46,277
Monywa	17	123	23,012	106	19,883	229	42,895
Total	64	756	1,412,95	470.5	87,987	12,26	229,282

Townships, Village wise detail implemented data are attached in the appendix (B)

9.1 Activities Implemented

The implementation activities done were as same as 2016. The working diary for the activities are presented in table (16)

Table (16) Working diary for activities done in 2018

	NU	MC	C	SB	MY	Remarks
Orientation	1 st April 18 to 21 st April 18					
Digging	17 April to 30 May					
Handover of seedling	12 May and 26 th June					
Planting	15 May to 30 th Sept					Long Drought period in June / July
Survival Counting	28 Aug to 11 th Sept 18					
Patching	15 May to Sept 2018					Patched for 2017 & 2018

9.2 Planting Ceremony

Tree planting ceremony had been done in five villages of each township. Detail of events are presented in table (17).

Township	Village	Place	No of Seedling Planted	Participants			Date Conducted
				Male	Female	Total	
NU	Thabutsu	Pond boundary	740	160	45	205	25/6/18
MC	Thanekone	School	208	75	25	100	29/7/18
C	Ooyin Lay	-	320	73	36	109	24/7/18
SB	Thelgyun	School	120	35	15	50	6/6/18
MY	Phalangyin	School	298	68	40	108	30/7/18

Table (17) Planting ceremony in 2018

At the event donation for school and student were done. The donations were done not only in the planting ceremonies but also in the other villages.

9.3 Seedling Handover

Seedling were hand over from UNDP in two batches. In first batch about 8 species were accepted and the rest seedlings in second batch list of the hand overfed seedling in table (18)

Township	Handover date		No of Species	No of Seedlings
	From	To		
Nyaung U	10.10.2016	12.10.2016	10	64,709
Myingyan	13.10.2016	14.10.2016	10	48,586
Chauk	15.10.2016	16.10.2016	10	51,802
Shwebo	18.10.2016	19.10.2016	10	51,530
Monywa	19.10.2016	20.10.2016	10	54,294

Table (18)
List of
seedling
hand over
in 2018.

All seedlings as well as purchased seedling for patching and own raised seedling were transported to the required sites. The species received are Teak, Shawphyu, Thanakha, Magyi, Sandalwood, Kokko, Yinmar, Tamar and Eucalyptus.

9.4 Patching Activities

In 2018 planting season patching were done for 2018 plantations and 2017 plantation. Seedling used for patching was extra 15% distributed by UNDP and extra seedlings purchased by CD Action.

Table (19) Number of patched seedlings in five township in 2018

Particular	Nyaung U	Chauk	Myingyan	Monywa	Shwe Bo	Total
Remain patching seedling from 2018 target (15%)	10066	7628	7031	7569	8167	40461
CDA nursery	2200	1500	2000	1200	1500	8400
Buying seedlings	1600	1600	1600	1600	1600	8000
Total	13866	10728	10631	10369	11267	56861



9.5 Joint Survival Counting (JSC)



This operation was done 29th August 2018 to 11th September 2018. The joint team members are UNDP forestry and Environmental specialist, FD, DZGD and CD Action members. The participant list of JSC and township wise conducted date are shown in table below (20) participant of JSC in each township.

Table (20) – JSC member in survival counting in 2018

Township	Date	UNDP	FD/D2DG	CD Action
Nyaung U	29/8/18 to 30/8/18	U Kyaw Zin Aung Soe	U PhyoThetKhine (DZGD) U KyawShwe (FD)	U THET ZAW And Team.
Myingyan	10/9/18 to 11/9/18	U Kyaw Zin Aung Soe	U MyintOo (FD) U KoKoGyi (DZGD)	U THET ZAW And Team.
Chauk	2/9/18	U Kyaw Zin Aung Soe	U Moe MyintZaw (DZGD)	U THET ZAW And Team.
Shwebo	5/9/18 to 6/9/18	U Kyaw Zin Aung Soe	U Mg Toe (DZGD) U Zaw Moe (FD)	U THET ZAW And Team.
Monywa	7/9/18 to 8/9/18	U Kyaw Zin Aung Soe	U LwinKoKoLatt (FD) U Mg Win (DZGD)	U THET ZAW And Team.

Table (21) Survival result of 2018 plantation

Sr No.	Township	# of Villages	Public Land				Farm Boundary				Total				Remark
			Planted	Counted	Survived	Sur %	Planted	Counted	Survived	Sur %	Planted	Counted	Survived	Sur %	
1	Nyaung U	18	16530		14198	85.9	40514	21605	19031	88	57044	37948	33229	87.5	
2	Chauk	6	16140		10752	85.2	27080	11450	9671	84.4	43220	23640	20423	86.3	
3	Myingyan	12	11924		10146	85	27922	12837	11034	85.9	39846	24761	21180	85.5	
4	Monywa	17	19883		18290	91.9	23012	18924	17898	94.5	42895	38852	36188	93.1	
5	Shwebo	11	23510		21688	92.2	22767	13150	12321	93.6	46277	36290	34009	93.7	
Total		64	87987		75074	85.3	141295	77966	69955	89.7	229282	161491	145029	89.2	

The survived percentage of the whole area is 89.2%.

9.6 Plan for Sustainability

Arrangement was the same as mentioned in the phase (I) and Phase (II).



10. Plantation Handover Event

Handover of planted tree to the communities were conducted. Handover note for 2016, 2017 and 2018 planting season were prepared and hand over according to the following schedule.

The official handing over event were done in Monywa and Nyaung U, for the other three townships handover note handed over to the communities at concern villages by CD Action on behalf of UNDP project.



Table (22) Handover event

Township	Venue	Dt	Attended
Monywa	DZGD office	12/10/18	Township coordinator and team
	Monywa		
Nyaung U	DZGD office	15/10/18	Mr Karma, Assistant Director and staff officer (DZGD), chairman CD Action and team, communities village administrator, CDA team & communities
	Nyaung-U		
Myingyan	At village	9/10/18 to 12/10/18	
Chauk	At village	10/10/18 to 14/10/18	
Shwebo	At village	10/10/18 to 13/10/18	

1 1. Training and Capacity Building

There were no budget and duties assigned to CD Action in this project. Although the orientation and demonstration were done in every year to the CD Action staff regards an organizing and extensions, administrations and operations works.

Also awareness and capacity building is partially done during the meeting and project implementing.

1 2. Workshop and Meeting

The following workshop and meeting was attended by CD Action staff.

(1) Annual Review Workshop.

Tow day workshop attended by Chairman, Vice Chairman of CD Action in PyinOoLwin and Project Manager. Project Manager presented the work done and 2018 work plan. Chairman proposed for the two months extension of project and used of administration budget in the operation activities and generally accepted from the meetings.

13. List of Beneficiary

The beneficiary list of the project after 2016, 2017 and 2018 are presented in table (22). There are no equal numbers in gender. According to Myanmar nature most women done only housekeeping works so male labor is much more than female. Number of male is three times of female.

Table (23) Year-wise, township wise summary of beneficiaries List

Year	Beneficiaries											
	NU		MC		C		MY		SB		Total	
	M	F	M	F	M	F	M	F	M	F	M	F
2016	622	155	116	20	363	106	292	102	175	44	1568	427
2017	522	199	371	189	464	127	441	218	267	122	2065	855
2018	489	184	349	167	432	98	326	125	291	136	1887	710
Total	1633	538	836	376	1259	331	1059	445	733	302	5520	1992

The average ratio between male and female was 74:26.

14. Financial Statement

The financial statement for the whole project is shown in the tables (24,25,26,27). This financial report has been audited by external auditor Than Than Yu audit firm. The report have already submitted to the UNDP project office. The concern documents were kept in the office according to UNDP regulation.

Regards an the expenditure we delivered with in the total budget amount. But in detail expenditure we used same administrative cost to the operation cost with the approval of UNDP project.

We have bought some items with capital nature (Cable, Computer, Printer, GPS, Furniture's) those things were handover to the DZDG according to the Project office's in Striation.

15. Constraint, Issues and Challenges

15.1 Duration of Project

The duration of project in each phase were only four months except six months in phase (III) which is too short. The four months is only sufficient for digging, planting, patching and fencing some plants only.

There were no chance to maintain the plant. Such as mulching, weeding, fertilizer feeding protecting from animal and fire etc. It was liked we have leaved the planted trees after planted and no room and further development for survival, especially in the dry climate and development of plants

15.2 Period of project in each phases

In dry zone Myanmar planting practices, site preparations, staking and digging operation are usually done in November to Jan, where the weather is not too hot and Soil is pretty soft to dig out and easy to get a lot of workers during this period.

The first phase (2016) start on October which is too late to implement that only short time left before dry period. In second phase (2017) the project duration started on May, which we dug the pit in May and caused mixed of first shower.

In third phase (2018) the project started on April. In this month difficult to get labor because of the water festival and weather was too hot and soil is very hard to dig, so we face a lot of challenges in digging

15.3 Pit Size

The pit size (1 ½' x 1 ½' x 1 ½') is not enough for catching water. The normal size practiced in dry zone is 6' x 1 ½' x ½' along the contour or 4' x 4' x 1 ½' in the flat area.

15.4 Other Constraint and Issues

- There were no budget for patching and maintenance
- Some villagers were not interested and weak participated.
- Villages were inaccessibility for transport especially in rainy days.
- Less and in certain rainfall and prolong drought which was the one of major factor
- Most of the communities preferred the economic profit tree species such as Shawphu, Thanatkha, Sandalwood and Teak. They don't want Eucalyptus and Bawsakaing. We have not able to distributed their requirement, we can distributed based on the seedling received from UNDP.

We handled for mitigation of problems and constraints by giving awareness and organizing. Organized the villages to take care the planted seedling. Organized the teacher, student and people to take care and watering the plants at drought period. To prevent the chewing activity of live shock by making bio tree guard with having branches in some serious areas. Patching was done parallel with other activities through out our perfect durations.

Extension of this project should be done for the further maintenance of current project.

16. Recommendations

For sustainable development of the planted trees further maintenance and protection plan should be followed and communities. If to conduct next phase of project there should be considered incentives and penalty to the communities.

17. Conclusion

The project aim reduce the increasing impacts of climatic change or agriculture, environment, live stock production cycle and biodiversity especially in the Dry Zone of Myanmar which extreme hot weather.

We implemented activities related to reforestation of denuded land area. During the project implementation we got lot of support Project Manager and team and DZGD. We hope that more or less this project component will be contributed a lot of benefits to the People and Planet.



Financial statement for whole project

Financial Statement For Whole Project (Table-24)

Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)							
Financial Statement for Whole Project							
Description	Budget all Statement For Whole Project	Phase I	Phase II	Phase III	PI + PII+ PIII	Difference	Remark
		4 Months	4 Months	6 Months	14 Months	(Surplus (+) Over Budgets (-))	
1.2.1 Technical Staff							
a.Township Coordinator (2 persons for)	13,000,000	4,000,000	4,000,000	5,000,000	13,000,000	-	
b.Field Facilitator (5 persons)	21,000,000	6,000,000	6,000,000	9,000,000	21,000,000	-	
c.Assistant Field Facilitator (5 persons)	12,600,000	3,600,000	3,600,000	5,400,000	12,600,000	-	
Total 1.2.1	46,600,000	13,600,000	13,600,000	19,400,000	46,600,000	-	
1.2.2 Administrative Staff							
a. Project Manager	16,800,000	4,800,000	4,800,000	7,200,000	16,800,000	-	
b. Accountant	5,600,000	1,600,000	1,600,000	2,400,000	5,600,000	-	
c. Cleaner (2 persons)	2,800,000	800,000	800,000	1,200,000	2,800,000	-	
Total 1.2.2	25,200,000	7,200,000	7,200,000	10,800,000	25,200,000	-	
1.3 Project Staff per Diem							
a. Per Diem	2,800,000	1,089,400	819,660	1,242,870	3,151,930	(351,930)	
Grand Total of 1	74,600,000	21,889,400	21,619,660	31,442,870	74,951,930	(351,930)	
2.1 Transport vehicle rental and running costs							
a. Motor Bike	7,000,000	2,000,000	2,000,000	3,000,000	7,000,000	-	
b. Vehicle Maintenance & Repair	1,600,000	736,800	869,350	1,162,900	2,769,050	(1,169,050)	
c.Vehicle Fuel and Running Costs	6,300,000	1,739,790	1,908,765	2,653,200	6,301,755	(1,755)	
Total 2.1	14,900,000	4,476,590	4,778,115	6,816,100	16,070,805	(1,170,805)	
2.2 Purchase of transport vehicles,							
a.Car Rent	8,400,000	2,400,000	2,400,000	3,600,000	8,400,000	-	
b.Furniture	600,000	85,000	37,500	80,000	202,500	397,500	

Financial Statement For Whole Project (Table-24)

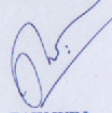
Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)							
Financial Statement for Whole Project							
Description	Budget all Statement For Whole Project	Phase I	Phase II	Phase III	PI + PII+ PIII	Difference	Remark
		4 Months	4 Months	6 Months	14 Months	(Surplus (+) Over Budgets (-))	
c.G.P.S	1,750,000	1,100,000		-	1,100,000	650,000	
d.Computer	1,400,000	622,500		-	622,500	777,500	
e.Printer	400,000	160,000		83,000	243,000	157,000	
f.Copier	300,000	-		-	-	300,000	
Total 2.2	12,850,000	4,367,500	2,437,500	3,763,000	10,568,000	2,282,000	
2.3 Office Rental and Running costs and Other							
a.Office Rental(2 Office)	4,200,000	1,200,000	1,200,000	1,800,000	4,200,000	-	
b.Communication	980,000	280,000	278,000	483,000	1,041,000	(61,000)	
c.Stationary and consumables	2,800,000	562,500	170,100	2,108,825	2,841,425	(41,425)	
d.Office Utilities	1,440,000	423,345	492,355	523,365	1,439,065	935	
e.Audit fees	1,000,000	-		1,000,000	1,000,000	-	
Total of 2.3	10,420,000	2,465,845	2,140,455	5,915,190	10,521,490	(101,490)	
Grand Total; of 2	38,170,000	11,309,935	9,356,070	16,494,290	37,160,295	1,009,705	
3.1 Output 1.2							
Public Land Tree planting							
a.Seedling transportation	2,925,846	3,241,413	4,072,485	5,855,661	13,169,559	(10,243,713)	
b.Pit digging ,soil filling , tree planting	10,096,250	12,862,750	16,160,500	18,953,400	47,976,650	(37,880,400)	
c. Tree Planting				4,634,850	4,634,850	(4,634,850)	
d.Fencing (Tree Guard)	2,019,250	435,000	806,000	1,150,000	2,391,000	(371,750)	
e.Planting Ceremony	6,000,000	-	2,588,700	4,423,300	7,012,000	(1,012,000)	
f.Prize for successful planters	824,120	-	1,677,550	1,647,500	3,325,050	(2,500,930)	
g.Purchase seedlings				4,444,000	4,444,000	(4,444,000)	

Financial Statement For Whole Project (Table-24)

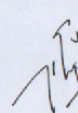
Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)

Financial Statement for Whole Project

Description	Budget all Statement For Whole Project	Phase I	Phase II	Phase III	PI + PII+ PIII	Difference	Remark
		4 Months	4 Months	6 Months	14 Months	(Surplus (+) Over Budgets (-))	
h.Patching seedling transport			645,600	1,127,700	1,773,300	(1,773,300)	
i.Planting for patching			538,000	1,074,000	1,612,000	(1,612,000)	
j. Maintenance Seedling			1,301,476	640,000	1,941,476	(1,941,476)	
Total 3.1	21,865,466	16,539,163	27,790,311	43,950,411	88,279,885	(66,414,419)	
3.2 Output1.3							
Farm Boundary tree planting							
a.Seedling transportation	40,264,119	1,972,089	10,814,181	8,589,105	21,375,375	18,888,744	
b.Pit digging ,soil filling , tree planting	138,937,500	7,825,750	42,913,500	26,903,000	77,642,250	61,295,250	
c. Tree Planting				6,829,250	6,829,250	(6,829,250)	
d.Purchase seedlings				2,288,000	2,288,000	(2,288,000)	
e.Patching seedlings transport			2,366,400	497,700	2,864,100	(2,864,100)	
f.Planting for patching			1,972,000	474,000	2,446,000	(2,446,000)	
g. Maintenance Plants					-	-	
Total of 3.2	179,201,619	9,797,839	58,066,081	45,581,055	113,444,975	65,756,644	
Total of 3	201,067,085	26,337,002	85,856,392	89,531,466	201,724,860	(657,775)	
Total Direct Costs	313,837,085	59,536,337	116,832,122	137,468,626	313,837,085	-	
6% of IP	18,830,225				18,830,225		
Total Budget and Expense	332,667,310				332,667,310		



ZAW WIN
CHAIRMAN
COMMUNITY DEVELOPMENT ACTION



Than Than Yu
B.Com, C.P.A, D.B.L.
Certified Public Accountant

Financial Statement For Phase (I) Table -25

Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)					
Financial Statement for Phase I (Naung U, Myingyan, Monywa, Chauk, Shwebo)					
Description	Oct'2016	Nov'2016	Dec'2016	Jan'2017	Grand Total
1.2.1 Technical Staff					
a.Township Coordinator (2 persons)	1,000,000	1,000,000	1,000,000	1,000,000	4,000,000
b.Field Facilitator (5 persons)	1,500,000	1,500,000	1,500,000	1,500,000	6,000,000
c.Assistant Field Facilitator (5 persons)	900,000	900,000	900,000	900,000	3,600,000
Total 1.2.1	3,400,000	3,400,000	3,400,000	3,400,000	13,600,000
1.2.2 Administrative Staff					
a. Project Manager	1,200,000	1,200,000	1,200,000	1,200,000	4,800,000
b. Accountant	400,000	400,000	400,000	400,000	1,600,000
c. Cleaner (2 persons)	200,000	200,000	200,000	200,000	800,000
Total 1.2.2	1,800,000	1,800,000	1,800,000	1,800,000	7,200,000
1.3 Project Staff per Diem					
a. Per Diem	233,700	233,700	281,700	337,000	1,085,100
Grand Total of 1	5,433,700	5,433,700	5,481,700	5,537,000	21,886,100
2.1 Transport vehicle rental and running costs					
a. Motor Bike	500,000	500,000	500,000	500,000	2,000,000
b. Vehicle Maintenance & Repair	93,200	221,200	94,100	328,300	736,800
c.Vehicle Fuel and Running Costs	187,845	600,411	491,880	459,654	1,739,790
Total 2.1	781,045	1,321,611	1,085,980	1,287,954	4,476,590
2.2 Purchase of transport vehicles, Equipment, Furniture and others					
a.Car Rent	2,400,000	-	-	-	2,400,000
b.Furniture	85,000	-	-	-	85,000
c.G.P.S	1,100,000	-	-	-	1,100,000
d.Computer	622,500	-	-	-	622,500
e.Printer	160,000	-	-	-	160,000
f.Copier	-	-	-	-	-
Total 2.2	4,367,500	-	-	-	4,367,500
2.3 Office Rental and Running costs and Others					
a.Office Rental(2 Office)	1,200,000	-	-	-	1,200,000
b.Communication	56,000	37,000	50,000	137,000	280,000

Financial Statement for Phase (I) Table - 25

Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)
Financial Statement for Phase I (Naung U, Myingyan, Monywa, Chauk, Shwebo)

Description	Oct'2016	Nov'2016	Dec'2016	Jan'2017	Grand Total
c.Stationary and consumables	157,525	167,525	129,050	108,400	562,500
d.Office Utilities	183,750	114,475	75,875	49,245	423,345
e.Audit fees	-	-	-	-	-
Total of 2.3	1,597,275	319,000	254,925	294,645	2,465,845
Grand Total of 2	6,745,820	1,640,611	1,340,905	1,582,599	11,309,935
3.1 Output 1.2					
Public Land Tree planting					
a.Seedling transportation	946,575	2,294,838	-	-	3,241,413
b.Pit digging ,soil filling and tree planting	1,452,500	11,410,250	-	-	12,862,750
c.Tree Planting	-	-	-	-	-
d.Fencing (Tree Guard)	-	435,000	-	-	435,000
e.Planting Ceremony	-	-	-	-	-
F. Prize for successful planter	-	-	-	-	-
g.Purchase Seedlings	-	-	-	-	-
h.Patching Seedling Transport	-	-	-	-	-
j. Planting for Patching	-	-	-	-	-
k. Maintenance Seedling	-	-	-	-	-
Total 3.1	2,399,075	14,140,088	-	-	16,539,163
3.2 Output 1.3					
Farm Boundary tree planting					
a.Seedling transportation	511,747	1,460,342	-	-	1,972,089
b.Pit digging ,soil filling and tree planting	438,750	7,387,000	-	-	7,825,750
c. Tree Planting	-	-	-	-	-
d. Purchase Seedlings	-	-	-	-	-
e.Patching Seedlings Transport	-	-	-	-	-
f.Planting for Patching	-	-	-	-	-
g.Maintenance Plants	-	-	-	-	-
Total of 3.2	950,497	8,847,342	-	-	9,797,839
Grand Total of 3	3,349,572	22,987,430	-	-	26,337,002
Total Direct Costs	15,529,092	30,061,741	6,822,605	7,119,599	59,533,037

Than Yu

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Certified Public Accountant

ZAW WIN
CHAIRMAN

COMMUNITY DEVELOPMENT ACTION

Financial Statement for Phase (II) Table - 26

Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)					
Financial Statement for Phase II (Naung U, Myingyan, Monywa, Chauk, Shwebo)					
Description	May'17	Jun'17	Jul'17	Aug'17	Grand Total
	Total	Total	Total	Total	
1.2.1 Technical Staff					
a. Township Coordinator (2 persons)	1,000,000	1,000,000	1,000,000	1,000,000	4,000,000
b. Field Facilitator (5 persons)	1,500,000	1,500,000	1,500,000	1,500,000	6,000,000
c. Assistant Field Facilitator (5 persons)	900,000	900,000	900,000	900,000	3,600,000
Total 1.2.1	3,400,000	3,400,000	3,400,000	3,400,000	13,600,000
1.2.2 Administrative Staff					
a. Project Manager	1,200,000	1,200,000	1,200,000	1,200,000	4,800,000
b. Accountant	400,000	400,000	400,000	400,000	1,600,000
c. Cleaner (2 persons)	200,000	200,000	200,000	200,000	800,000
Total 1.2.2	1,800,000	1,800,000	1,800,000	1,800,000	7,200,000
1.3 Project Staff per Diem					
a. Per Diem	214,560	200,000	198,750	206,350	819,660
Grand Total of 1	5,414,560	5,400,000	5,398,750	5,406,350	21,619,660
2.1 Transport vehicle rental and running costs					
a. Motor Bike	500,000	500,000	500,000	500,000	2,000,000
b. Vehicle Maintenance & Repair	137,850	117,000	118,000	496,500	869,350
c. Vehicle Fuel and Running Costs	449,895	506,500	414,380	537,990	1,908,765
Total 2.1	1,087,745	1,123,500	1,032,380	1,534,490	4,778,115
2.2 Purchase of transport vehicles, Equipment, Furniture and others					
a. Car Rent	2400000	-	-	-	2,400,000
b. Furniture	37500	-	-	-	37,500
c. G.P.S	-	-	-	-	-
d. Computer	-	-	-	-	-
e. Printer	-	-	-	-	-
f. Copier	-	-	-	-	-
Total 2.2	2,437,500	-	-	-	2,437,500
2.3 Office Rental and Running costs and Others					
a. Office Rental(2 Office)	1,200,000	-	-	-	1,200,000
b. Communication	65,000	75,000	59,000	79,000	278,000
c. Stationary and consumables	62,050	45,150	53,800	9,100	170,100
d. Office Utilities	189,850	150,400	63,750	88,355	492,355
e. Audit fees	-	-	-	-	-
Total of 2.3	1,516,900	270,550	176,550	176,455	2,140,455
Grand Total of 2	5,042,145	1,394,050	1,208,930	1,710,945	9,356,070
3.1 Output 1.2					
Public Land Tree planting					
a. Seedling transportation	-	2,547,015	152,547	-	4,072,485
b. Pit digging ,soil filling and tree planting	8,648,000	5,226,600	228,590	-	16,160,500
c. Tree Planting	-	-	-	-	-
d. Fencing (Tree Guard)	-	-	-	806,000	806,000
e. Planting Ceremony	792,000	906,700	-	890,000	2,588,700
f. Prize for successful planters	-	177,550	-	1,500,000	1,677,550
g. Purchase Seedlings	-	-	-	-	-
h. Patching Seedling Transport	-	-	-	645,600	645,600
j. Planting for patching	-	-	-	538,000	538,000
k. Maintenance Seedling	-	-	-	1,301,476	1,301,476
Total 3.1	9,440,000	8,857,865	3,811,370	5,681,076	27,790,311
3.2 Output 1.3					

Financial Statement for Phase (II)

Financial Statement for Phase (II) Table - 26

Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)

Financial Statement for Phase II (Naung U, Myingyan, Monywa, Chauk, Shwebo)

Description	May'17	Jun'17	Jul'17	Aug'17	Grand Total
	Total	Total	Total	Total	
Farm Boundary tree planting					
a. Seedling transportation	-	4,431,016	6,383,165	-	10,814,181
b. Pit digging, soil filling and tree planting	11,287,200	23,681,850	7,944,450	-	42,913,500
c. Tree Planting					-
d. Purchasing Seedling					-
e. Patching seedlings transport				2,366,400	2,366,400
f. Planting for patching				1,972,000	1,972,000
g. Maintenance Plants					
Total of 3.2	11,287,200	28,112,866	14,327,615	4,338,400	58,066,081
Total of 3	20,727,200	36,970,731	18,138,985	10,019,476	85,856,392
Total Direct Costs	31,183,905	43,764,781	24,746,665	17,136,771	116,832,122

Than Than Yu
B.Com, C.P.A, D.B.L
Certified Public Accountant

Financial Statement for Phase (III) Table - 27

Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)

Financial Statement for Phase III (Naung U, Myingyan, Monywa, Chauk, Shwebo)


Description / Months	April	May	June	July	Aug	Sep	Total
1.2.1 Technical Staff							
a. Township Coordinator (2 persons for)	1,000,000	1,000,000	1,000,000	1,000,000	500,000	500,000	5,000,000
b. Field Facilitator (5 persons)	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	9,000,000
c. Assistant Field Facilitator (5 persons)	900,000	900,000	900,000	900,000	900,000	900,000	5,400,000
Total 1.2.1	3,400,000	3,400,000	3,400,000	3,400,000	2,900,000	2,900,000	19,400,000
1.2.2 Administrative Staff							
a. Project Manager	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	7,200,000
b. Accountant	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000
c. Cleaner (2 persons)	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000
Driver	-	-	-	-	-	-	-
Total 1.2.2	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	10,800,000
1.3 Project Staff per Diem							
a. Per Diem	283,785	343,500	417,085	61,100	107,000	30,400	1,242,870
Grand Total of 1	5,483,785	5,543,500	5,617,085	5,261,100	4,807,000	4,730,400	31,442,870
2.1 Transport vehicle rental and running cost							
a. Motor Bike	500,000	500,000	500,000	500,000	500,000	500,000	3,000,000
b. Vehicle Maintenance & Repair	362,500	100,400	369,100	111,600	118,300	101,000	1,162,900
c. Vehicle Fuel and Running Costs	549,400	399,500	538,400	374,900	357,400	433,600	2,653,200
Total 2.1	1,411,900	999,900	1,407,500	986,500	975,700	1,034,600	6,816,100
2.2 Purchase of transport vehicles, Equipme							
a. Car Rent	600,000	600,000	600,000	600,000	600,000	600,000	3,600,000
b. Furniture	80,000	-	-	-	-	-	80,000

Financial Statement for Phase (III) Table - 27

Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)							
Financial Statement for Phase III (Naung U, Myingyan, Monywa, Chauk, Shwebo)							
Description / Months	April	May	June	July	Aug	Sep	Total
c.G.P.S	-	-	-	-	-	-	-
d.Computer	-	-	-	-	-	-	-
e.Printer	-	-	83,000	-	-	-	83,000
f.Copier	-	-	-	-	-	-	-
Total 2.2	680,000	600,000	683,000	600,000	600,000	600,000	3,763,000
2.3 Office Rental and Running costs and Oth	-	-	-	-	-	-	-
a.Office Rental(2 Office)	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000
b.Communication	104,000	59,000	54,000	92,000	111,000	63,000	483,000
c.Stationary and consumables	1,016,450	24,925	4,300	3,700	168,100	891,350	2,108,825
d.Office Utilities	152,400	75,645	48,185	79,235	61,400	106,500	523,365
e.Audit fees	1,000,000	-	-	-	-	-	1,000,000
Total of 2.3	2,572,850	459,570	406,485	474,935	640,500	1,360,850	5,915,190
Grand Total of 2	4,664,750	2,059,470	2,496,985	2,061,435	2,216,200	2,995,450	16,494,290
3.1 Output 1.2	-	-	-	-	-	-	-
Public Land Tree planting	-	-	-	-	-	-	-
a.Seedling transportation	-	-	4,783,149	1,018,395	54,117	-	5,855,661
b.Pit digging ,soil filling	7,339,000	5,705,200	5,909,200	-	-	-	18,953,400
c. Tree Planting	-	-	3,040,350	453,150	1,141,350	-	4,634,850
d.Fencing	-	-	-	-	-	1,150,000	1,150,000
e.Planting Ceremony	-	224,800	680,750	504,300	-	3,013,450	4,423,300
f.Prize for successful planters	-	-	-	-	-	1,647,500	1,647,500
g.Purchase seedlings	506,000	-	-	-	-	3,938,000	4,444,000
h.Patching seedling transport	-	-	-	-	-	1,127,700	1,127,700

Financial Statement for Phase (III) Table - 27

Community Development Action (Climatic Risk on Water and Food Security in the Dry Zone of Myanmar)							
Financial Statement for Phase III (Naung U, Myingyan, Monywa, Chauk, Shwebo)							
Description / Months	April	May	June	July	Aug	Sep	Total
i.Planting for patching	-	-	-	-	-	1,074,000	1,074,000
j.Tree guards	-	-	-	-	-	-	-
k. Maintenance Plants	-	-	-	-	640,000	-	640,000
Total 3.1	7,845,000	5,930,000	14,413,449	1,975,845	1,835,467	11,950,650	43,950,411
3.2 Output1.3	-	-	-	-	-	-	-
Farm Boundary tree planting	-	-	-	-	-	-	-
a.Seedling transportation	-	-	6,826,050	1,107,099	655,956	-	8,589,105
b.Pit digging ,soil filling	4,361,200	11,699,800	10,842,000	-	-	-	26,903,000
c. Tree Planting	-	-	4,405,800	402,850	2,020,600	-	6,829,250
d.Purchase seedlings	550,000	-	-	-	-	1,738,000	2,288,000
e.Patching seedlings transport	-	-	-	-	-	497,700	497,700
f.Planting for patching	-	-	-	-	-	474,000	474,000
g. Maintenance Plants	-	-	-	-	-	-	-
Total of 3.2	4,911,200	11,699,800	22,073,850	1,509,949	2,676,556	2,709,700	45,581,055
Total of 3	12,756,200	17,629,800	36,487,299	3,485,794	4,512,023	14,660,350	89,531,466
Total Direct Costs	22,904,735	25,232,770	44,601,369	10,808,329	11,535,223	22,386,200	137,468,626


 Than Than Yu
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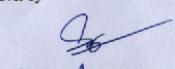
EQUIPMENT HANDOVER TEMPLATE COMMUNITY DEVELOPMENT ACTION (MONYWA)

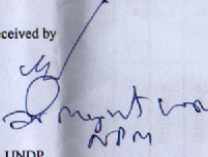
Material Handover List (Monywa)

Table (28)

Equipment Handover Template-Community Development Action (Monywa)

Sr.No	Description	Serial No.	Model	Qty/Unit	Inventory Tag No.					Condition	Inv-Tag-No.	Remarks
					Prjct	Tsp	Code	Sq	Sr			
1	Table			1	CDAc	MYA	FF	27	11	Running	CDAc-MYA-FF-27-11	
2	Chair			1	CDAc	MYA	FF	27	12	Running	CDAc-MYA-FF-27-12	
3	Chair			1	CDAc	MYA	FF	27	13	Running	CDAc-MYA-FF-27-13	
4	Chair			1	CDAc	MYA	FF	27	14	Running	CDAc-MYA-FF-27-14	
5	Chair			1	CDAc	MYA	FF	27	15	Running	CDAc-MYA-FF-27-15	
6	Bed			1	CDAc	MYA	FF	39	16	Running	CDAc-MYA-FF-39-16	
7	Bed			1	CDAc	MYA	FF	39	17	Running	CDAc-MYA-FF-39-17	

Handed over by

 Name: Soe Aung
 Title: T.C
 Organization: Community Development Action
 Date: 5.10.18

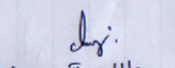
Checked & received by

 Name: Dmynt wa
 Title: RPM
 Organization: UNDP
 Date: 5-10-2018

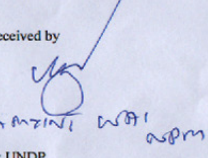
Material Handover List (Nyaung U)

Table (29)

Equipment Handover Template-Community Development Action (Nyaung U)

Sr.No	Description	Serial No.	Model	Qty/Unit	Inventory Tag No.					Condition	Inv-Tag-No.	Remarks
					Prjct	Tsp	Code	Sq	Sr			
1	Printer		Canon LBP 2900B	1	CDAc	NYU	OE	3	1	Running	CDAc-NYU-OE-3-1	
2	Table			1	CDAc	NYU	FF	27	2	Running	CDAc-NYU-FF-27-2	
3	Table			1	CDAc	NYU	FF	27	3	Running	CDAc-NYU-FF-27-3	
4	Chair			1	CDAc	NYU	FF	27	4	Running	CDAc-NYU-FF-27-4	
5	Chair			1	CDAc	NYU	FF	27	5	Running	CDAc-NYU-FF-27-5	
6	Chair			1	CDAc	NYU	FF	27	6	Running	CDAc-NYU-FF-27-6	
7	Chair			1	CDAc	NYU	FF	27	7	Running	CDAc-NYU-FF-27-7	
8	GPS		GARMIN GPS	1	CDAc	NYU	FE	37	8	Running	CDAc-NYU-FE-37-8	no cable
9	GPS			1	CDAc	NYU	FE	37	9	Running	CDAc-NYU-FE-37-9	No cable
10	Laptop		Dell Note Book	1	CDAc	NYU	CP	2	10	Running	CDAc-NYU-CP-2-10	
11	Printer		Canon iP 2700	1	CDAc	NYU	OE	3	18	Running	CDAc-NYU-OE-3-18	
12	Helmet			1	CDAc	NYU	FE	65	19	Running	CDAc-NYU-FE-65-19	
13	Helmet			1	CDAc	NYU	FE	65	20	Running	CDAc-NYU-FE-65-20	
14	Helmet			1	CDAc	NYU	FE	65	21	Running	CDAc-NYU-FE-65-21	

Handed over by

 Name: U Aung My Htay
 Title: Field Facilitator
 Organization: Community Development Action
 Date: 12.10.2018

Checked & received by

 Name: Dmynt wa
 Title: RPM
 Organization: UNDP
 Date: 12-10-2018

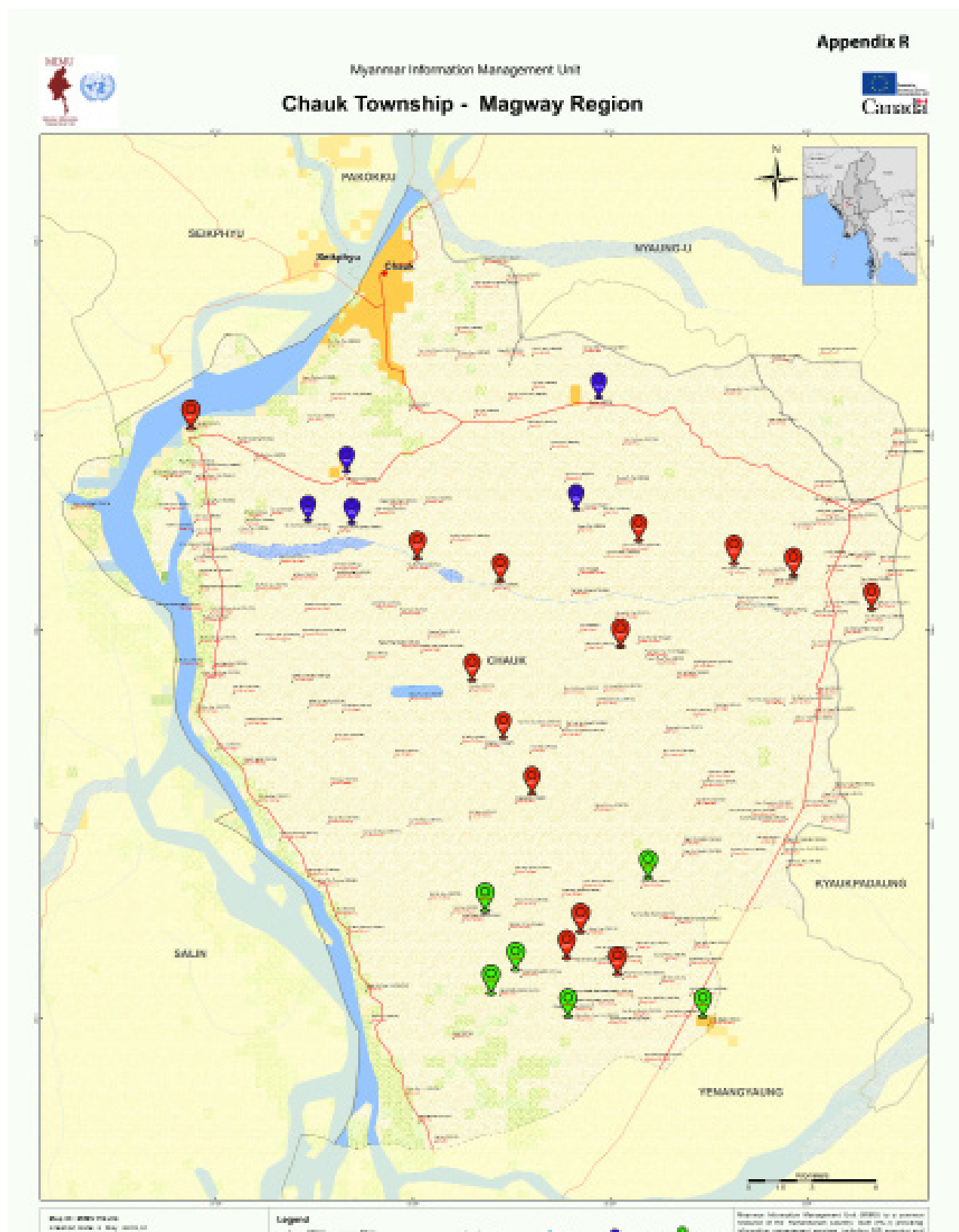
Township/
Village-wise
implementation
2017

Sr.	Township	Village	Farm Boundary Tree Planting	Public Land Tree Planting						Grand Total		
				School	Religious compound	Road Side	Pond Boundary	Clinic	Total			
1	Nyaung U	Lal Kan	956	53	59	253	645	13	1023	1979		
		Myaung	1898	110	103	387	224	13	837	2735		
		Kan Thar	3245	100	70		395		565	3810		
		Shwe Ka Phyu	5739	63	65				128	5867		
		Kyauk pyin kan	1483	21	31	660	216		928	2411		
		Yar taw gyi	817	50	20	653	170		893	1710		
		zee za myin	388	136	18	189	42		385	773		
		Mone tie	990	10	436	1487	931		2864	3851		
		Chaung shay	3398		870	1694	400		2964	6362		
		Nga lin poke	1060	59		600			659	1719		
		Chaung wa		454	72	815			1341	1341		
		Thel twin	1361		341		692		1033	2394		
		Ywar thit taung	650	50	70	180			300	950		
		Pyin tie	600	60		1040	500		1600	2200		
		Nga pie	-	108	42	494	296		940	940		
		Nga min may		65	93	431	298		887	887		
		Dahat kan	3405	30	250	246	56		582	3987		
		Dahat see	4446	37	70	334	80		521	4967		
		Kyoe pin thar	51	15			81		96	147		
		Htee pu	6405	130			200	50	380	6785		
		Hta pauk taw	173	100	124	54			278	451		
		Total	21 Villages	37065	1651	2734	9517	5226	76	19204	56269	
2	Myin Gyan	Thein ywar	113	68	68	354			490	603		
		Nat htar	2198	12	21	623			656	2854		
		Sar khar	-		214	570			784	784		
		Kyauk yan	575	37	228	163			428	1003		
		Shwe paw kyun	1269		96	159			255	1524		
		Ma gyi su	-		682	1445	257		2384	2384		
		Seik kone	969	41		304			345	1314		
		Taung shay	796	81	20	806			907	1703		
		Myin thar	1973		53	178			231	2204		
		Ba lon	444	117	61	300			478	922		
		Kyauk kan	1805	17	8	1218	39	17	1299	3104		
		Ngwe paw kyun	1324	21	8	321			350	1674		
		Kan sint(S)	381	13	86				99	480		
		Kan sint(N)	307	12	11	146			169	476		
		Yawr thar yar	1070	129	984	152			1265	2335		
		Bon ywar	2041	27	34	12			73	2114		
		Yon htoe swe	881	53	47	183			283	1164		
		Son ywar	1590							1590		
		Kyee pin kan	4006	17	26	1127			1170	5176		
		Phaung kar	3247	92	81	168			341	3588		
		Ka tat pin	162	34	124	1382	233		1773	1935		
		Lay ywar son	3492	57	108	156			321	3813		
Chin myit kyin	541	158	57	52	291		558	1099				
Kyauk tan	247	68	32	862			962	1209				
Total	24 Villages	29431	1054	3049	10681	820	17	15621	45052			
3	Chauk	Chaung Oo ywar thit	1100	130		230	40		400	1500		
		Oak pho		50	100	350			500	500		
		Thit nyo kone	350		100	50			150	500		
		Thit to kan	1120	100	1580	500	350		2530	3650		
		Htein san	4543	45			762	150	957	5500		
		Aine gyi	4514	69	167	553	97		886	5400		
		Sar taung	1358	30	32	30	50		142	1500		
		Nyaung zin	8110	150		650	2990	100	3890	12000		
		Than bo ywar thit	1100	50	100				150	1250		
		Than bo (S)	615	100	100	135	50		385	1000		
		Than bo(N)	1000		100	200			300	1300		
		San su		50	50	150	50		300	300		
		Tha lone thway	2140	100	250	135	25		510	2650		
		Ma gyi kone	2400		150	250	200		600	3000		
		San kan	1506	50	150	220	280		700	2206		
		Total	15 Villages	29856	924	2879	3453	4894	250	12400	42256	
		4	Shwe Bo	Ta ga nan		45	75	15			135	135
				Nyaung yin kone	102			185			185	287
Ta kan thar					90	476	515		1081	1081		
Nyaung kan	6364					701			701	7065		
Boe daw taw	2165				135	450	100		685	2850		
Pauk kan	2408			30		720			750	3158		
Myo thit	370			75		60			135	505		
Ta yaw taw	2185			40	65	192			297	2482		
Kuoe kyar	1400					806	400		1206	2606		
Sin kweet(E)	917				75		320		395	1312		
Pauk tone				30		290			320	320		
Min kone				100	265				365	365		
Oo bo	561			30	60	105			195	756		
Ta gon taing	340					240			240	580		
Shar taw	445				100	50			150	595		
Bote kone	15900			65	35				100	16000		
Ywar mate thar	4920			20	35	1999	53		2107	7027		
Total	17 Villages			38167	435	935	6289	1388		9047	47214	
5	Monywa	Ma Yoe Taw	2639	42		180	278		500	3139		
		Yin Pan	5010	20	70	200			290	5300		
		Magyi kone	420		105				105	525		
		Shar pauk taw	1120		90				90	1210		
		Sone kone	1750	80	84	311			475	2225		
		Kan Ohn	1120	120		110			230	1350		
		Min Tel	2424	61	51	363	105		580	3004		
		Palin Kone	2382	100	190	455			745	3127		
		Intie	1575	250		430		20	700	2275		
		Hnaw pin(N)	2960	30	30	375			435	3395		
		Hnaw pin(S)	1624							1624		
		Yae kan su	3031	47	93	74			214	3245		
		Tel gyi kone(E)	1560	23		347			370	1930		
		Tel gyi kone(w)	400							400		
		Phan khar Gyin	1894	90	50				140	2034		
		Pyan kya(E)	572	14	26	150			190	762		
		Gaw gyi	1300	97	83	1093			1273	2573		
		Twin chaung	2000	10	422	1024			1456	3456		
Dan pin tel	3354	50	45	457		25	577	3931				
Total	19 Villages	37135	1034	1339	5569	383	45	8370	45505			
Grand Total			17 Villages	171854	5899	10836	85508	12752	387	64643		

Appendix (B)

Township/Village-wise implementation 2018

Sr.	Township	Village	Farm Boundary Tree Planting	Public Land Tree Planting						Grand Total
				School	Religious compound	Road Side	Pond Boundary	Clinic	Total	
1	Nyaung U	Kan thar yar	1580	32	85	653	210	-	980	2,560
		Myay nae gyi	516	655	398	230	852	-	2135	2,651
		Pha lan kan	678	212	110	352	648	-	1322	2,000
		Myay ni	=	100	307	-	-	-	407	407
		Boe kone	=	47	46	-	-	-	93	93
		San kan	2,166	150	400	1,100	-	-	1650	3,816
		Sapal thin	1,580	190	50	92	165	25	522	2,102
		Myang kyaut taw	250	100	700	650	195	-	1645	1,895
		Oat lay kar	1,185	100	135	50	-	-	285	1,470
		Pyin chaung	3,745	104	50	-	240	347	741	4,486
		Pyaut kan	1,500	52	252	-	300	-	604	2,104
		Ywar palae	563	100	239	65	663	-	1067	1,630
		Kan thain	3,784	100	370	-	-	-	470	4,254
		Pann kone pin	700	30	220	100	-	-	350	1,050
		Tha but su	22,267	20	50	1,200	2,123	7	3400	25,667
		Kan ni gyi	=	107	80	-	-	-	187	187
		Tel pin te'	=	60	84	-	299	-	443	443
	sin thar hmwe	=	29	200	-	-	-	229	229	
		=	=	=	=	=	=	=	=	
	Total	18 Villages	40,514	2,188	3,776	4,492	5,695	379	16,530	57,044
2	Myin Gyan	Thain kone	2604	133	463	303	117	0	1016	3620
		Gway cho	2850	150	20	1130	350	0	1650	4500
		Lay yar kyaw	2510	57	48	777	98	0	980	3490
		Nyaung won	2337	44	62	589	78	0	773	3110
		Te' gyi	2067	50	43	870	150	0	1113	3180
		Chaung Lae'	2588	115	223	914	0	0	1252	3840
		Kan Pauk	2136	30	87	721	112	0	950	3086
		Kan Chaw	2335	20	15	860	150	0	1045	3380
		Hnat cho taw	2345	29	49	721	96	0	895	3240
		Kan U	2400	25	38	462	75	0	600	3000
		Magyi thamar	800	38	600	388	174	0	1200	2000
		Ya tha	2950	65	51	278	56	0	450	3400
				=	=	=	=	=	=	=
		Total	12 Villages	27922	756	1699	8013	1456	-	11924
3	Chauk	Poke Pa Kan	8199	300	500	6000	-	-	6800	14999
		Kyat Kan Ywar Thit	3219	-	100	50	1850	-	2000	5219
		Myae Swan Ywar Ma	3649	100	700	500	1590	-	2890	6539
		Myae Swan Ywar Thit	6162	-	300	200	1600	-	2100	8262
		Na Lin Kan	2701	50	100	825	1025	-	2000	4701
		U Yin Lay	3150	50	100	150	50	-	350	3500
	Total	6 Villages	27080	500	1800	7725	6115	-	16140	43220
4	Shwe Bo	Tike Ta Taw	900	-	-	1,600	-	-	1,600	2500
		Kyaung Pan Kan	1,700	-	-	1,220	180	-	1,400	3,100
		Kan Gyi Taw	2,000	100	125	2,925	-	50	3,200	5,200
		Thae Kyune	5,700	80	95	2,930	195	-	3,300	9,000
		Sin Kyut (N)	300	-	-	2,450	250	-	2,700	3,000
		Thit Cho Pin	200	35	80	1,060	25	-	1,200	1,400
		Nga Pi Ao	3,977	-	45	2,455	-	-	2,500	6,477
		Gway Pin Kone	7,240	75	-	2,560	125	-	2,760	10,000
		Tha Pyay Thit Cho	-	25	50	1,725	-	-	1,800	1800
		Kone Gyi	750	-	55	1,195	-	-	1,250	2,000
		Shwe Gu	-	-	100	1,655	45	-	1,800	1800
	Total	11 Villages	22,767	315	550	21,775	820	50	23,510	46,277
5	Monywa	Nyaung Pin Thar Ywar Thit	3,388		-					3,388
		Nyaung Pin Thar	2,795							2,795
		Bogar	-				645		645	645
		Seal Gyi Taw	467			700	117		817	1,284
		Thit Nyo Pin	467	150		671			821	1,288
		Kyo Jar Kan	266	24	12	1,360	175		1571	1,837
		Mote Soe Gone	1,040			2,300	900		3200	4,240
		Ban Si	1,044			1,587			1,587	2,631
		Nate Ban Wa	2,595							2,595
		Kyi Oat	538							538
		Ywa Thit	1,350		15	896	655		1566	2,916
		Pha Lan Kyin	1,400	249		1,095			1344	2,744
		Thar Yar Su	1,020			1,239	248		1487	2,507
		Kyauk Kwel	3,000	50		2,344			2394	5,394
		Taung Ma Taw	1,959			932			932	2,891
		Myai Si	683	32		1,668			1700	2,383
Hel Dar	1,000			1,569	250		1,819	2,819		
	Total	17 Villages	23,012	505	27	16,361	2,990		19883	42,895
Grand Total		64 Villages	141,295	8,264	7,852	58,366	17,076	429	87,987	229,282



Nyaung U Township - Mandalay Region

Nyaung U Township - Mandalay Region

Appendix-F







**Strengthening Watershed Management
through Rehabilitation, reforestation of
Denuded Community Areas and Farm
Boundaries in Nyaung U, Myingyan,
Chauk, Shwebo and Monywa**

