ATTAPADY BLOCK (PALAKKAD DISTRICT)

Project No: IWMP-9 PALAKKAD BATCH 6

Attappady is a tribal block in Kerala state covering an area of 735 km². It is carved out from Mannarkkad taluk in Palakkad district in 2021. AttappadyReserve Forest is a protected area comprising 249 km² of land area in the western parts of Attappady. It is one among the reserved forests and protected forests of India. Attappady valley in Palakkad district along with the neighbouring Chaliyar valley of the Nilambur region (Eastern Eranad region) in Malappuram district, is known for natural Goldfields, which are also seen in the other regions of Nilgiri Biosphere Reserve. Attappady taluk comprises 6 revenue villages like Agali, Kallamala, Kottathara, Padavayal, Pudur and Sholayur. As of the 2011 census report, AttappadyBlock had a total population of 64,318 where 32,035 are males and 32,283 are females. The totalnumbers of households were 16,865.

S.No	Watershed Name	Code
1	Moola Kombu	22B30I
2	Jalimeduthodu	22B31a
3	Melechavadiyur	22B32a
4	Chalayur	22B33a
5	Karathur	22B34a
6	ChathannurKonna	22B35a
7	ThazheMulli	22B36a
8	Mele Mulli	22B36b
9	KukaraPallam	22B36c

Table .1 Watershed details







Fig 1: Map of the Watershed area



Fig2: Financial overview of the Project

It was clear from the above figure that the amount received from the Government is not regular and received maximum funds in the last FY. There were no funds received in FY 2018-19. The maximum expenditure spent in the last FY of the project.

The project evaluation team from CWRDM visited IWMP Batch IX watershed areas of Attappady Block on 01-07-2022. After the initial discussion with the Block Development Officer and other staff who have associated with the project implementation, a field visit was planned and the following sites were visited by the team to see the interventions implemented. The team also held discussions with the local beneficiaries in the respective areas.

1. Konamkuthipallam gabion structure

Three Gabionstructures at 100m intervals were constructed to control soil erosion as well as flood protection. Konamkuthipallam gabion structure was constructed in a first-order stream of Melechavadiyur watershed at Pudhurvillage. The total budget of the structure is Rs 4,99,984/-.

Under this IWMP project, 22gabion structures were created. These structureshelp instabilising slopes and limit the speed of concentrated runoff. The major purpose of gabion walls is to reduce land sliding on roadsides, erosion and scouring on the banks of rivers during flood and high-velocity river streams, as well as to stop the waterlogged areas from further being damaged. In steep places, they also serve as shield walls to sustain the moment of the soil and rock laterally.

2. KulamNirmananmGangatharenteSthalathinaduthu

A new pond was constructed at Chalayur Watershed for agriculture and domestic purposes. Around 10 acres of land getting benefitted under this pond. A pump is installed in the pond to irrigate the entire field. An existing gabion structure at first order stream was observed around the pond. This will enhance the availability of water in the pond so that more area can be irrigated. The total capacity of the pond is 56 m³. The total budget of the pond was Rs. 5,82,155/-.

This intervention has enhanced agricultural activities by converting barren land into agricultural land, which benefited the farmers. The possibility for irrigation has increased by 16 hectares. Additionally, a 50% decrease in the wasteland was observed.

3. Livelihood supporting system

Mr.Rangan from Panganaipallamof Pudhurvillage received a subsidy for poultry. The amount received as subsidy was Rs. 600/- with a 10 % beneficiary contribution.

The basic right to equal opportunity for tribal people is the main justification for promoting livelihoods. But lack of chances and life choices are problems for the poor. With the help of the IWMP project, marginalised and oppressed members of the village communityincluding women, small and marginal farmers, and landless people can profit the most from the project. The project provided chances for households to generate revenue through employment, priority access to resources on common property, and non-land-based activities.

4. Production system

Around 21 families in the Pudhurvillage of Chalaiyurwatershed received a subsidy for flower cultivation. Mr.Batharn in Pudhur village planted jasmine on 0.5 acre of land. Saplings are also provided under PMKSY.

Around 160 beneficiaries were promoted with floriculture activities, 150with fodder cultivation and 6100 number of old layer chicks were contributed through this scheme.PSME has been shown to be an effective strategy for increasing small, thriving businesses, which in



turn increases household income and savings and eases the burden of poverty. PSME are essential to the local growth of every region. PSME will aid in fostering entrepreneurship skills among the population and act as a model for the villagers to create similar projects on their own. The average income of the population will rise as a result.

5. Kurumbamutham Thodu Side Protection

A loose boulder check dam along with side protection was constructed at Melechavadiyur Watershed. The structure was located ina second-order stream. The length of work is 30m with a budget of Rs 3,28,000/-.

The major environmental benefit of this construction is the replenishment of nearby groundwater reserves and wells. This initiative has made some progress toward resolving the flooding issue. This project also made it possible for agriculture in the neighbouring areas by providing irrigation facilities. Additionally, a 2% rise in cropping intensity was observed.

6. Water storage tank

new water storage tank was constructed at Nattukalchundappetty А inOorinaduthuChathanurkonawatershed. The total budget of work is Rs.1,97,953/- this facilitatesirrigating the area through gravity. The stored water is used for cultivating banana, vegetables and flower crops. After the construction of this pond, the area of cultivation increased.



KonamkuthipallamGabion structure







Centre for Water Resources Development and Management



Summary of the Evaluation of Outcomes of PMSKY-WDC Project

District:Palakkad

Date of visit : 01.07.2022

1. Project Details

Project No: IWMP-9 Palakkad Batch 6

Name of Block: Attappady

Sanctioned Area:5879Ha

Sanctioned Cost (Rs in lakhs) :881

Name of Villages included in the project: Pudur



2. Impact Details

Sl.	Items	Unit	Pre-	Status at the	Remarks
No			project	end of project	
•	Average depth of watertable in dug wells	m	12	10.25	Water level
1	riverage depth of watertable in dag wens		6	5.0	increased by
			Ū.	0.00	1.75 m and 1
					m during pre
					and post
					monsoon
					season
2	Average depth of watertable in tube wells	m	80	60	Min
					max
3	Number of groundwater structures (dug	nos.	0	650	Pre-project
	wells + tube wells + hand pumps)				data not
-	rejuvenated	1	24	40.7	available
4	Increase in Irrigation potential	ha	24	40.7	Increase of
5	Area of Wastaland brought under	ha	10.27	0	10 ha
3	productive use (like agriculture	na	10.57	9	50 %
	plantation fodder etc.)				the
	plantation, louder, etc.)				wasteland
6	Change in cropping/land use pattern	ha			A modest
_	•Area under Agriculture Crop			3861	increase in
	•Area under plantation/forest				agriculture
	cover				area was
	•Area Under Wastelands				noticed
7	Area Under Agriculture Crop	ha			Pre-project
	•Area under Kharif crop			3752.14	data not
	•Area under rabi crop			1821.8	available
	•Area under double crop			108.9	
	-				
8	Cropping intensity	%	105	107	2 % increase
9	Increase in Yield /ha of crops	qt/ha		13	Increase of
	•Rabi crop	-		5	2.5 qt/ha of
	•Kharif crop				paddy
1.0	-			17.0.1	
10	Area of horticulture crop	ha	3	17.96	Marginal
					increase in
					observed
11	Employment in agriculture-related	Man	3262	11236	3262
11	activities among beneficiaries	davs	5202	11230	mandays of
		auys			employment
12	Employment in non-agricultural sectors	Man	1070	13337	generated
		days			under the



					project				
13	Fodder production	Ha	10	17	7 ha increase				
					in area under				
					fodder				
14	Fuelwood production	qt	0	0	No data				
					available				
15	Number of milch cattle	nos	0	0	Data not				
					available				
16	Milk production	Kl/y	100	250	Milk				
	-	r			production				
					is almost				
					doubled				
17	Duration of flow of water in streams(upto		Dec	Feb	Two months				
	November/December/January/February				increase in				
	May)				flow of				
					water in				
					streams				
18	Improvement of drinking water facility		Feb	Mar	One month				
					increase ni				
					water				
					availability				
19	No. of persons engaged in ancillary	nos	730						
	activities like fishery, poultry, rural								
	craftsmanship								
20	Number of children enrolled in schools in	nos			All children				
	the project area				enrolled in				
					schools				
21	Reduction in migration from rural to	nos			Reduction in				
	urban areas in the project area				migration				
					during the				
					project				
					period				
22	Annual mean household income	Rs	29930/-	34000/-	Rs. 4000/-				
-					increase				
23	Any Other Measurable indicator of impact	assessi	nent						
	 ✤ 160 Beneficiaries from floriculture activity 								
	 150 Beneticiaries from fodder production 								
	 6100traditionallayer chicks were distributed under the project Neuclassic formany hand fitted 1701 								
	 Number of farmers benefitted: 1/91 D:								
	 Direct employment created: 5262 SUCe assisted: 5 								
	 SHUS assisted: J Total rainwater harvasting structures greated 11 and 7 were reinwanated 								
	✓ Total rainwater narvesting structures created 11 and / were rejuvenated.								
1									

Concluding Remarks:

- PMKSY in Attappady block started in 2015 and was completed in 2022 with a project area of 5879 ha. The NRM activities followed in the project area are Gabion Structures, Streambank side Protection, water storage tanks for domestic as well as irrigation purposes, farm ponds construction and renovation and well recharge renovations.
- Engineering structures like check dams and gabion structures were constructed across the required areas to control soil erosion. At Konamkuthipallam of Melechavadiyur watershed, gabion structures were constructed at 100 m in a first-order stream.Melechavadiyur watershed mainly has very steep slope which leads to gully erosion in high intensity rainfall periods. Hence, these gabion structures ensure the reduction in the flow of water in the stream so that, gully erosion is reduced.
- Drinking water shortage to a certain extent was taken care of by the installation of rainwater harvesting tanks and water storage tanks. The water from perennial streams is directly stored in the constructed tank. Then later it is used for domestic and irrigation purposes.
- Production system management activities provide funding for livestock management in all watershed areas thereby providing an excellent opportunity for self-employment for unemployed people. Flower cultivation was carried out in many tribal people'svillages in the view of income generation. But it was observed that most of the floriculture crops cultivated were not market driven. Hence, market-oriented floriculture crops can be cultivated in the area to increase the income and living standards of the people.
- ➢ With these activities employment was generated both in agricultural and nonagricultural sectors and also the annual mean household income was improved.
- Poultry and animal husbandry in the project area waspromoted as a part of JLG and PSM. The training and capacity building can be given to the tribal people in convergences with many schemes mainly on value addition of the products so that the livelihood system will be improved.
- It was observed that at the time of DPR preparation, many of the interventions is not clear. Hence, at the time of DPR preparation care should be taken to give priority



based on resource availability and the DPR should be clear in respect of all the interventions.

There is a scope to improve the livelihood activities of the project area specially the tribal belts through production system management and value addition activities.

Success story:

KulamNirmananmGangatharenteSthalathinaduthu-Chalayur Watershed

This construction of the pond plays an important role in supplying water to farmers in Chalayurooru. After the construction of this pondbananas, vegetables, floriculture, fodder crops are cultivated here. Mr. Prakashan S/o Gangadhranfrom Chalayur informed that millet production also will be possible if surplus water is there. A new ecosystem is created by the construction of the pond. This will enrich the biodiversity in that watershed.

