

Endline Evaluation of PMKSY-WDC Watershed projects

REPORT: WADAKKANCHERY BLOCK(Thrissur District)

Wadakkanchery IWMP project area is mainly located in Thalappilly Taluk of Thrissur district of Kerala State. The project area lies in the catchment of two river basins KecheryPuzha and Bharathapuzha. Majority of the study is coming under Kechery river basin. The total area of the project is 5855.29 Ha which is proposed to be treated under Integrated Watershed Management Programme (IWMP). The project area consists of 10 micro watersheds namely Kunnatherimathrathodu, Vellapokkapadamthodu, Pathiyaramthodu, Mangattupadamthodu, Chittandapadamthodu, Kanjirakkode- Kumbalangadupadam, Puthuruthythodu, Chanchirathodu, Pinnamparathodu I and Pinnamparathodu II.

Table 1 Details of micro watersheds in the project area

No	Code of watershed	Name of watershed	Area in ha	Percentage
1	18k14a	Kunnatherimathrathodu	559.57	9.56
2	18K14b	Vellapokkapadamthodu	539.77	9.22
3	18K14c	Pathiyaramthodu	373.65	6.38
4	18K15a	Mangattupadamthodu	707.27	12.08
5	18K16a	Chittandapadamthodu	742.25	12.68
6	18K25a	Kanjirakkode- Kumbalangadupadam	911.06	15.56
7	18K26a	Puthuruthythodu	1134.69	19.38
8	20B44d	Chanchirathodu	279.26	4.77
9	20B44e	Pinnamparathodu I	581.66	9.93
10	20B44f	Pinnamparathodu II	26.11	.45
Total			5855.29	100.00

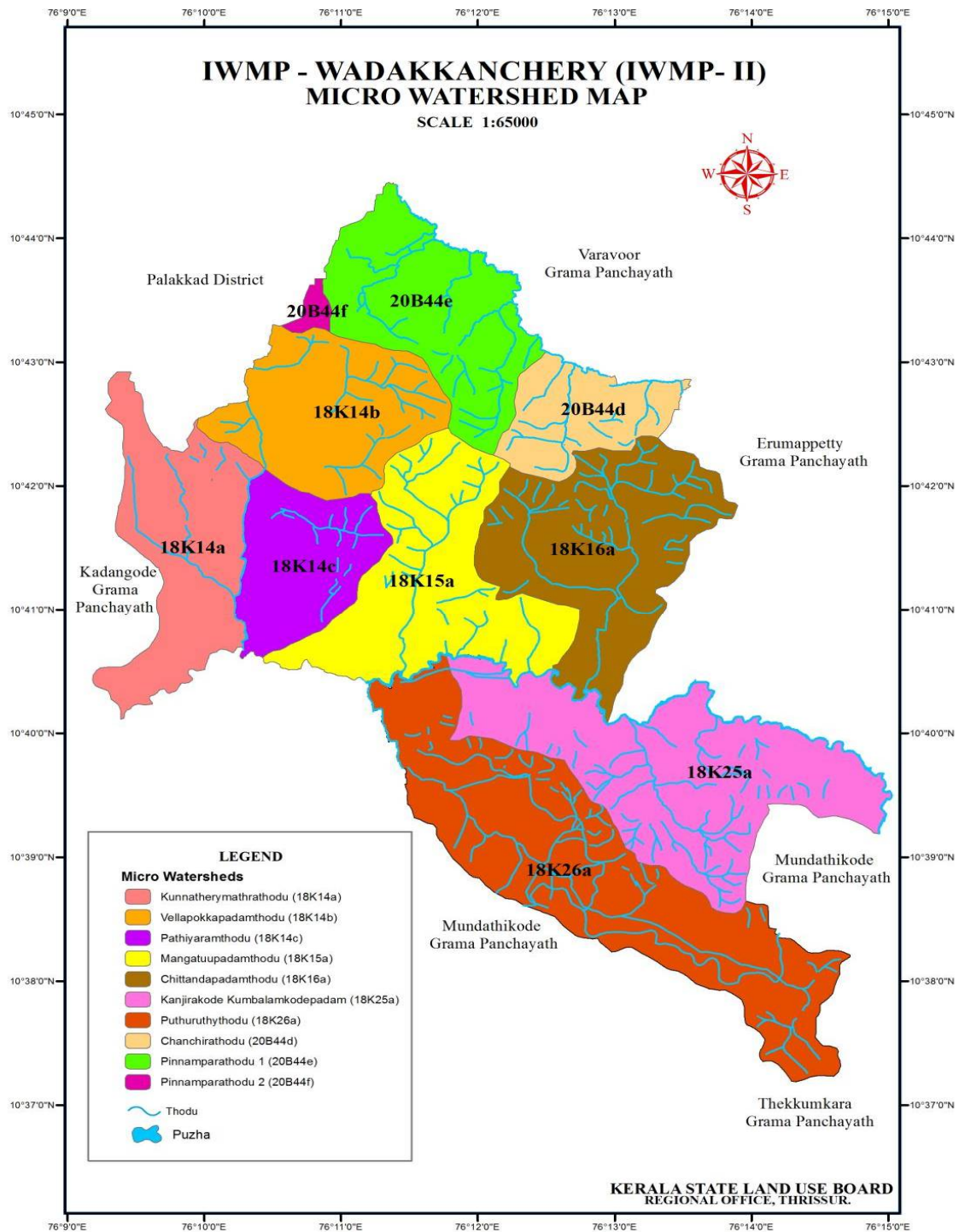


Figure 1 Watershed map of the project area

The evaluation team from CWRDM visited the project area on 08/09/2019. The team had a discussion with the officials of the Block Office. They intimated that the delay in fund release caused much difficulty in executing the project. The WDT had conducted 25 JLG trainings (Topics like poultry, well recharge, water conservation etc.) and several exposure visits. The works that the team visited were:

1. Kunjikkulam pond renovation

This work is located in the Puthuthuruthithodu watershed of Mundathikode Gram Panchayath. The water from this pond is used for drinking water supply. The depth of the pond is about 6m. There is provision for pumping water for irrigation, but has not been utilized till date. The pond was renovated at a cost of Rs. 8,50,000.

2. Kurumakkavu VCB

This work lies in the Kanjirakkodu watershed of Wadakkanchery Gram Panchayath. There are 2 VCBs installed in the 2 branches of the canal. Nearly 200 acres of farm benefit from this structure. Water through the channel comes from the Vazhani canal.

3. Ayyappanmukku tractor passage cum VCB

This work is situated in the Mangattupadam watershed of Erumappetty Gram Panchayath. The farmers nearby complained that the passage was not wide enough for large machinery to access the field.

4. Water harvesting tanks

A total of 5 ferrocement tanks of 4500L capacity were constructed in the plots of individuals in Vellapokkapaadam watershed of Varavur Gram panchayath. It was done as a part of Entry Point Activities.

Summary of the Evaluation of Outcomes of PMKSY-WDC Project

District	Thrissur	Date of visit	08/02/2019
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1. Project Details

Project No	IWMP II
Name of Block	Wadakkanchery
Sanctioned Area (ha)	5649
Sanctioned Cost (Rs in lakh)	677.88
Actual expenditure (Rs in lakh)	232.56 (34.30%)
Name of Villages included in the project	Varavoor, Erumappetty, Kaangode, Mundathikkode, Thekkumkara

2. Impact Details

Sl. No.	Items	Unit	Pre-project status	Status at the end of project	Remarks
1	Average depth of water table in dug wells	m	8.8	7.73	1.07m . Average rise of 1m in open wells
2	Average depth of water table in tube wells	m			No data available
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	--	105	Total of 105 structures including VCBs , RWH structures and farm ponds
4	Increase in Irrigation potential	ha	508	825	317 ha increase
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha	--	--	Wasteland not developed
6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha		425 255(waste land)	425 Ha under Agri. Crops. 147 ha horticulture
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha		1530(double crop)	Total of Kharif and Rabi crops.
8	Cropping intensity	%	50	60	10 % increase
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	27	29	2 qt/ha increase
10	Area of horticulture crop	ha	425.97	573.32	147.35 ha under horticulture
11	Employment in agriculture related activities among beneficiaries	Man days		34822	Total No of employment generated in Agri and Non agri sector
12	Employment in non- agricultural sectors	Man days			813 Backyard poultry units
13	Fodder production	qt	500	550	Increase of 50 qt

14	Fuelwood production	qt			No data
15	Number of milch cattle	nos			Only nominal increase
16	Milk production	Kl/yr			1000 lit increase
17	Duration of flow of water in streams (upto November/December/January/February.... May)		January	March	NelluvayiMangad , Thottupalam, Maniyanchira, Muttikal, Thali, Kurumakkavu, Puthuruthy were treated
18	Improvement of drinking water facility		February	April	Ground water level increased
19	No. of persons engaged in ancillary activities like fishery, poultry, rural craftsmanship	nos			Total 900 in ancillary activities
20	Number of children enrolled in schools in the project area	nos			All children are school going
21	Reduction in migration from rural to urban area in the project area	nos			34822 mandays
22	Annual mean household income	Rs	40000	46000	76 groups were assisted through 19 lakhs
23	Any other measureable indicator of impact assessment i) Total 14945 farmers were benefitted by the project. ii) 76 SHGs and 192 JLGs were formed as part of project. iii) Poultry units started : 7				



Renovated Kunjikkulam pond in PuthuthuruthiThodu watershed



Kurumakkavu VCB constructed in Kanjirakkodu watershed



Tractor passage constructed at Ayyappamukku in Mangattupadam watershed



Water harvesting tank installed in the plot of one of the residents in Vellapokkapaadam watershed