

Endline Evaluation of PMKSY-WDC Batch II Watershed projects
REPORT: PATTAMBI BLOCK (PATTAMBI E1)(Palakkad District)

The project area is spread in Pattambi and Ottappalam Block Panchayaths of Palakkad District. It includes Kulukkallur, Vilayur, Koppam, Nellaya and Vallapuzha Grama Panchayaths. The total treatable area under the project is 5245 Ha which is spread across 3 micro watersheds namely Vilayur, Mannengode and Kulukkallur. The project area is drought prone due to the irregular and uneven rainfall in the past and land degradation is occurring at a drastic rate due to the unscientific land management practices. Paddy, coconut, arecanut and vegetables are the major crops cultivated here. Bharathapuzha and Thoothapuzha (Tributary of Bharathapuzha) are the major rivers passing through.

Table 1 Details of micro watersheds in the project area

Sl. No.	Name	Code	Treatable Area (Ha)
1.	Vilayur	20B4cc	1223
2.	Mannengode	20B4cb	2496
3.	Kulukkallur	20B4ca	1526
Total			5245

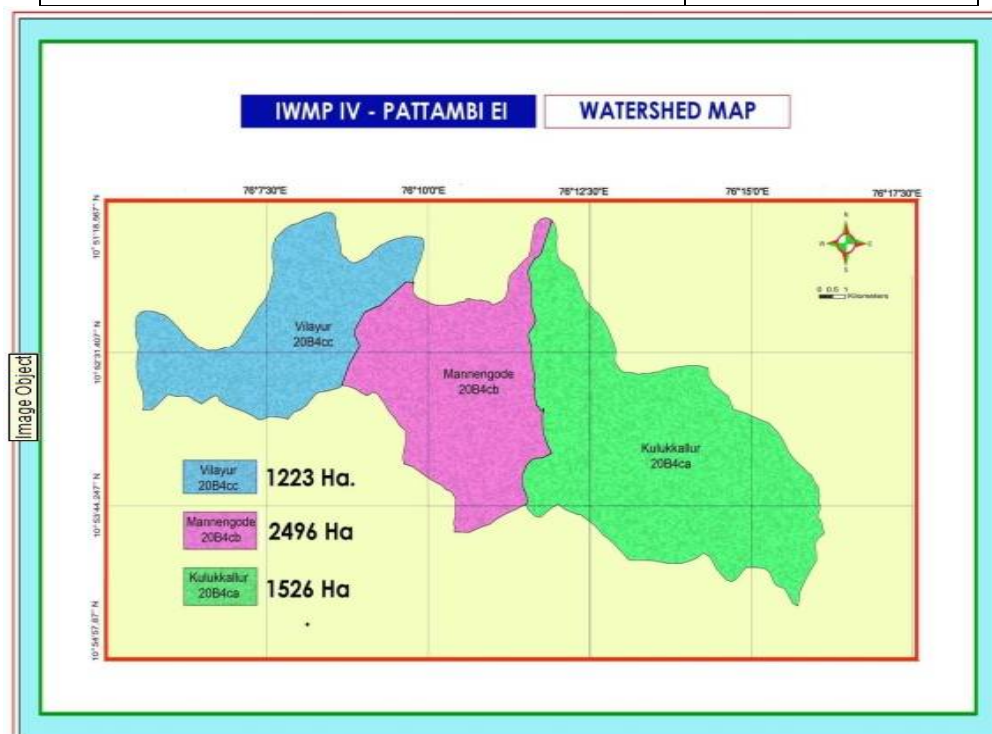


Figure 1 Watershed map of the project area

The investigating team from CWRDM visited the IWMP IV Pattambi E1 project on 12/02/2019. Initial discussions were done with the Block officials and Technical expert. The technical Expert and respective VEOs accompanied the team in field visit. The works visited by the team were:

1. Kuthiramthodu side protection and shuttering

This work is located in the Kulukkallur watershed of Kulukkallur Gram Panchayath. The work was done in three reaches, the total cost being Rs. 38,89,000

2. Njandippallyil public well renovation

This well is situated in the Kulukkallur watershed of Kulukkallur Gram Panchayath. The renovation work was completed at a cost of Rs. 50,000. But the well appears neglected and out of use. There was no pumping being done at the time.

3. BVUP School Chundambatta pond renovation

The pond is situated in the premises of BVUP School, Chundambatta in Kulukkallur watershed of Kulukkallur Gram Panchayath. The water from the pond is used for irrigating vegetables which are cultivated in the school compound itself. Also, swimming lessons are given to the pupil of the school in this pond. A teacher of the school has also installed a hand pump using gears, which he designed himself.

4. Puthankulam pond renovation

This work is located in the Vilayur watershed of Vilayur Gram Panchayath. The work was completed at a cost of Rs. 8,09,100.

5. Amarakkulam stream side protection

This work is also situated in the Vilayur watershed of Vilayur Gram Panchayath. The cost of construction of the work was Rs. 15,00,000.

Summary of the Evaluation of Outcomes of PMKSY-WDC Project

District	Palakkad	Date of visit	12/02/2019
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1. Project Details

Project No	IWMP IV/2010-11 Pattambi E1
Name of Block	Pattambi
Sanctioned Area (ha)	5245
Sanctioned Cost (Rs in lakh)	786.75
Actual Expenditure (Lakh)	525.36 (66.77%)
Name of Villages included in the project	Pulamanthol, Nellaya, Vilayur, Koppam

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	7.00	6.13	An increase of nearly 1m is noticed in most of the 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.	--	120	44 renovated and 76 structures created including 49 percolation tanks
4	Increase in Irrigation potential	ha	--	1230	Additional 1230 ha area brought under protective irrigation
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha	--	20	About 20 ha area of wasteland brought under agricultural crops
6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha	520 480 120	540 480 100	Area under wastelands slightly reduced
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha	520 340 340	540 360 360	Area under paddy and double crop marginal increase
8	Cropping intensity	%	70	73	Marginal increase in area
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	29	32	Around 3 Qt/ha increase
10	Area of horticulture crop	ha	180	220	Horticulture crops in homesteads increased
11	Employment in agriculture related activities among beneficiaries	Man days	--	-	man days of direct employment generated
12	Employment in non- agricultural sectors	Man days	--	38840	
13	Fodder production	qt	840	930	10 % increase in fodder production
14	Fuelwood production	qt	--	--	No data
15	Number of milch cattle	nos	--	--	Exact data not available. About 10 % increase due to setting

					up of cattle rearing units
16	Milk production	Kl/yr	--	--	Exact data not available.10-12% increase
17	Duration of flow of water in streams (upto Nov/Dec/January/February....May)		January	March	Two months prolonged flow in streams
18	Improvement of drinking water facility		February	April	Availability of water Upto april middle
19	No. of persons engaged in ancillary activities like fishery, poultry,rural craftsmanship	nos	--	--	720 beneficiaries from poultry. Goat and cattle 296
20	Number of children enrolled in schools in the project area	nos	--	--	All children enrolled in schools
21	Reduction in migration from rural to urban area in the project area	nos	--	--	38840 man-days of employment generated
22	Annual mean household income	Rs	50,000	55,000	Around 10 % increase due to setting up of micro enterprises.
23	<p>Any other measureable indicator of impact assessment</p> <p>i) Around 60 rain water harvesting structure created and 44 were renovated</p> <p>ii) Number of farmers/households benefitted from the scheme- 3680.</p> <p>iii) 203 SHGs formed and 102 were assisted, More than 300 beneficiaries get the benefit out of it.</p> <p>iv) The project helps in setting up of new ventures like production system and micro-enterprises. Nearly 1000 beneficiaries benefitted either by setting up poultry (720) unit or Goat and cattle rearing (296) units in the watershed area.</p>				



Fig 3 Kuthiramthodu side protection and shuttering



Fig2 Renovated Njandippalliyil public well



Fig 5 Renovated pond in BVUP School
Chundambatta



Fig 4 Renovated Puthankulam pond