

Endline Evaluation of PMKSY-WDC Batch II Watershed projects

REPORT: ALATHUR BLOCK(Palakkad District)

The IWMP II Alathur D1 project area is spread across Alathur and Nenmara Block Panchayaths of Palakkad District of Kerala State. It has a total treatable area of 6428 Ha which is built up from 7 micro watersheds namely Puliakalathodu, Thippilikkayam, Vattapparathodu, Padangattathodu, Mangalamdam, Odamthodu and Ayyappanmudi.

Table 1 Details of micro watersheds in the project area

SI No	Name of Watershed	Code	Total Area (Ha)	Treatable area (Ha)
1	Puliakalathodu Watershed	16C22c	365	266
2	Thippilikkayam Watershed	20B39ax	2485	2269
3	Vattapparathodu Watershed	20B39ay	1086	928
4	Padangattathodu Watershed	20B39az	432	381
5	Mangalamdam Watershed	20B39aw	775	764
6	Odamthodu Watershed	20B39ba	614	481
7	Ayyappanmudi Watershed	20B39bb	1424	1339
			Total	6428

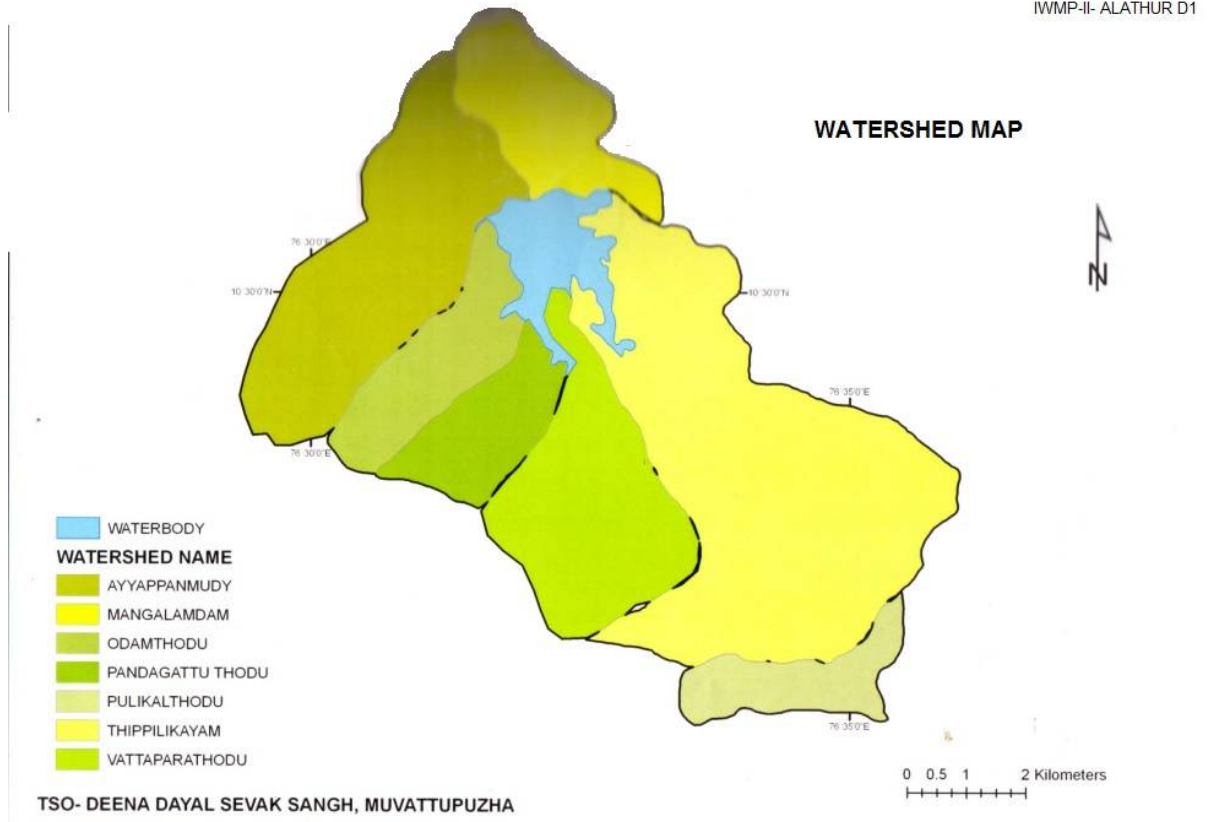


Figure 1 Watershed map of the project area

The evaluation team from CWRDM visited the IWMP Alathur D1 project on 13/02/2019. Basic details were collected from Block office and discussions were held with Block Officials and Project Team. The Technical Expert and respective VEOs accompanied the investigation team in field visit. The works visited by the team were:

1. Open well rejuvenation – OduvoorCheruchaal
This work is located in the Mangalam Dam watershed of VandazhiGramapanchayath. The well was lined with rubble masonry. A total of 19 such wells were renovated in the watershed at an average cost of Rs. 55,000 per well.
2. Cheriyaal pond renovation
This work is located in the Mangalam Dam watershed of VandazhiGramapanchayath. The pond lies in 1 acre of government land. The total cost of renovation was Rs. 13,50,000.
3. Check dams with side protection
This work lies in the Odamthode watershed of KizhakkancheriGramapanchayath. There are 3 checks installed in the stream. Also, the sides of the stream were lined to reduce erosion. The total cost of construction was Rs. 10,82,871.
4. Well renovation and land conservation

A well was renovated and the upper catchment of the well was conserved with stone pitched terraces in the land of Shri Jose Skariah in KizhakkencheryPanchayath which is

typical of an upper midland terrain. The soil erosion was arrested and the water table in the well was improved during summer because of these measures.

Summary of the Evaluation of Outcomes of PMKSY-WDC Project

District	Palakkad	Date of visit	13/02/2019
----------	----------	---------------	------------

1. Project Details

Project No	IWMP 2 – Alathur D I
Name of Block	Alathur
Date of project initiation	03/02/2011
Date of project completion	31/03/2018
Sanctioned Area (ha)	7181 (Treatable 6428)
Sanctioned Cost (lakh)	964.20
Actual Cost (lakh)	268.17 (27.8 %)
Name of Villages included in the project	Kizhakkenchery, Mangalam Dam

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	8.1	7.2	An average of 1 m increase is noticed
2	Average depth of water table in tube wells	m	--	--	Not monitored
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	--	91	Created Check dams 2, 2 farm pond renovation and well renovations
4	Increase in Irrigation potential	ha	--	400	400 ha of additional area brought under protective irrigation
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha	--	3	Nominal area only

6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha	18 25 --	25 38 3	Above 18000 tree seedlings distributed and planted
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha	19 14 21	25 20 25	Marginal increase in the area of agriculture
8	Cropping intensity	%	62	75	Increase of 13 %
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	17.50 21.00	22.00 26.00	Marginal increase in yield of agriculture crops
10	Area of horticulture crop	ha	42	50	Increase of 8 ha area
11	Employment in agriculture related activities among beneficiaries	Man days	--	15,000	A total of 34100 mandays were created out of the project as direct employment
12	Employment in non- agricultural sectors	Man days	--	19100	
13	Fodder production	qt	40	50	25 % increase
14	Fuelwood production	qt	--	--	No data available
15	Number of milch cattle	nos	275	400	45 % increase
16	Milk production	Kl/y r	300	400	33% increase
17	Duration of flow of water in streams (upto November/December/January/February.... May)		January	February	One month prolonged
18	Improvement of drinking water facility		--	--	91 water harvesting structures created or rejuvenated
19	No. of persons engaged in ancillary activities like fishery, poultry,rural craftsmanship	nos	175	250	The project also helps in creating micro-enterprise activities.30 UGs, 60 SHGs and 101 JLGs formed
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	--	--	34100 man-days created
22	Annual mean household income	Rs	45000	50000	Rs. 5000 increase

23	<p>Any other measureable indicator of impact assessment</p> <ul style="list-style-type: none"> i) 60 SHGs formed as part of the project and nearly 51 SHGs were assisted ii) As much as 91 rain water harvesting structures were created or rejuvenated iii) Nearly 400 ha of additional area brought under protective irrigation v) 34100 man-days were generated in this project and 1849 farmers were benefitted vi) Construction of soil and water conservation structures like contour bunds, gully plugging etc. contributed in reducing soil erosion and retaining soil moisture content.
----	---



Figure 4 One of the open wells rejuvenated in Oduvoor



Figure 3 One of the check dams in Odamthode



Figure 5 Stone bund constructed under IWMP



Figure 2 Renovated Cheriyaachal pond