

## Endline Evaluation of PMKSY-WDC Batch II Watershed Projects

### REPORT: THRITHALA BLOCK (IWMP III)(Palakkad District)

The IWMP III project is located in the Thrithala Block Panchayath of Palakkad District. It is located 70 km from Palakkad. The project area is a cluster of total area 5221 ha comprising six watersheds, namely Chekod, Kumaranallur, Kollanoor, Eravakkadu, Pattikkayal and Parappanthodu spread across three Gram Panchayaths of Kappur, Aanakkara and Pattithara. A total of 1672 farmers were benefitted out of the project mainly through the NRM activities and production system/livelihood programmes.

**Table 1 Details of micro watersheds in the project area**

Sl.No.	Name of watershed	Watershed Code	Geographic Coordinates		Treatable Area
			Latitude	Longitude	
1.	Chekod	19K 3c	76°01'30" E & 76°04'30" E	10°46'30" N & 10°49'30" N	861
2.	Kumaranallur	19K 3d	76°01'30" E & 76°04'30" E	10°46'30" N & 10°48'00" N	507
3.	Kollanoor	19K 3e	76°01'30" E & 76°04'30" E	10°45'00" N & 10°46'30" N	333
4.	Eravakkadu	19K 3f	76°01'30" E & 76°04'30" E	10°45'00" N & 10°46'30" N	139
5.	Pattikkayal	20B 47a	76°03'00" E & 76°06'00" E	10°46'30" N & 10°49'30" N	1677
6.	Parappanthodu	20B 48a	76°01'30" E & 76°04'30" E	10°48'00" N & 10°51'00" N	1704
<b>Total</b>					<b>5221</b>

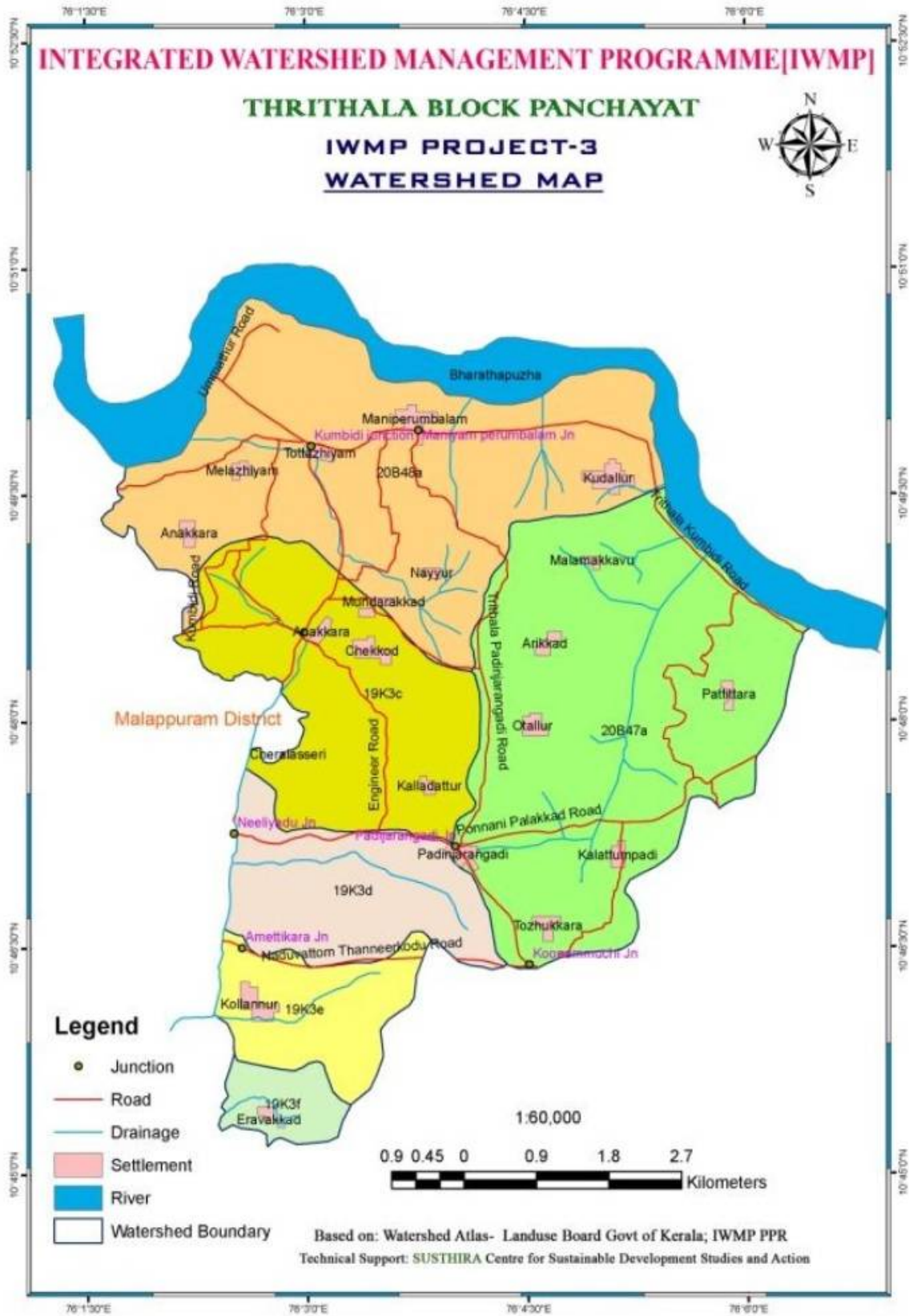


Figure 1 Watershed map of the project area

The investigating team from CWRDM visited the IWMP III project area on 12/02/2019. They first held discussions with the Block officials to know their perceptions about the impact of the project and collected certain information regarding the project implementation. Field visit to some of the interventions was made after the discussion. The works visited by the team were:

1. PalakkalThazham pond renovation

This work, which is a large diameter open well is located in the Kollannoor watershed of Kappur Gram Panchayath. Approximately 100 acres of land is irrigated from this pond. This pond, which is perennial in nature is also a source of drinking water for nearby residents. About 4 m depth of water was available during the time of visit and water is pumped and taken in tanks to nearby areas. The water quality also seems to be good. The total cost of renovation was Rs. 2,01,363.

2. PuthiyaCholakkulam pond

This pond is located in the Kollannoor watershed of Kappur Gram Panchayath. The water column in the pond was shallow. It is slightly infested with weed and having only less water. It is not used for irrigation and people use it for bathing and cleaning purposes. The cost of construction was Rs. 4,00,000.

### **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 III/2010-11
Name of Block	Thrithala
Sanctioned Area (ha)	5221
Sanctioned Cost ( lakh)	783.15
Actual Cost ( lakh)	268.22 (34.24%)
Name of Villages included in the project	Aanakkara, Kappur, Pattithara

#### **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	7.40	6.05	Increase of more than 1 m
2	Average depth of water table in tube wells	m	60	59	Increase of one m.

					Bore wells are less.
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	--	220	190 checks and plugs 7 farm ponds rejuvenated and other structures created.
4	Increase in Irrigation potential	ha	--	1035	1035 ha brought under protective irrigation.
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha	--	--	There is not much change in wasteland
6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha	--	1446	
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha	--	1446 1848 402	Area under double crop has increased after the project
8	Cropping intensity	%	80	90	About 10 % increase
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	23 24	26 27	Around 3 qt/ha increase in both crops
10	Area of horticulture crop	ha	--	--	Area under horticulture crop has increased average 10% in homesteads
11	Employment in agriculture related activities among beneficiaries	Man days	--		1701 man days of direct employment generated and agricultural activities
12	Employment in non- agricultural sectors	Man days	--	1701	
13	Fodder production	qt	--	5 ha	Fodder production increased by 5 ha
14	Fuelwood production	qt	--	--	Mostly gas used for cooking
15	Number of milch cattle	nos	2000	2200	10 % increase
16	Milk production	Kl/y r	140	150	Marginal increase
17	Duration of flow of water in streams (upto November/December/January/February.... May)		January	February	One month extended flow
18	Improvement of drinking water facility		February	April	Two months more

			ary		
19	No. of persons engaged in ancillary activities like fishery, poultry,rural craftsmanship	nos	--	962	142 Goat and cattle and 820 JLG/SHG assisted
20	Number of children enrolled in schools in the project area	nos	--	All	All are school going children
21	Reduction in migration from rural to urban area in the project area	nos	--	--	1701labour and 962 other ancillary activities has reduced migration
22	Annual mean household income		Rs. 48000	Rs. 53000	Rs. 5000 increase
23	Any other measureable indicator of impact assessment i) Goat and Cattle production enterprise started as part of the project which benefits nearly 140 families. ii) Around 250 SHGs formed and around 160 SHGs got assistance, which provide benefits to 820 beneficiaries. iii) Vegetative and Engineering structures like checks and plugs (190 cum) constructed to conserve soil and water. iv) Total No. of farmers benefitted is 1672.				



Figure 2 Puthiya Cholakkulam pond



Figure 3 Renovated Palakkal Thazham well