

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

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

Thrithala is located at a distance of 70 kilometers from Palakkad, in Ottappalam Taluk Palakkad district, on the banks of the River Bharathapuzha. The cluster of micro watersheds in the IWMP I project include Kavukode, Pattissery – III, Pattissery – II, Chalissery, Kothachira, Ullannur and Puliappattakkayal– II. These watersheds are spread across 4 Gram Panchayaths namely Chalissery, Nagalassery, Pattithara and Thrithala. Together, there is a total of 5911 Ha of treatable land in this project.

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

Sl. No.	Name of watershed	Watershed Code	Geographic Coordinates		Treatable Area
			Latitude	Longitude	
1.	Kavukode	19K 7b	10°43'30" N & 10°46'30" N	76°4'30" E & 76°6'0" E	446
2.	Pattissery - III	19K 7c	10°43'30" N & 10°45'0" N	76°4'30" E & 76°6'0" E	927
3.	Pattissery - II	19K 7d	10°45'0" N & 10°48'0" N	76°4'30" E & 76°6'0" E	239
4.	Chalissery	19K 8a	10°43'30" N & 10°46'30" N	76°4'30" E & 76°7'30" E	1035
5.	Kothachira	19K 10a	10°43'30" N & 10°44'0" N	76°5'30" E & 76°6'30" E	89
6.	Ullannur	20B 20a	10°46'30" N & 10°48'0" N	76°7'30" E & 76°9'0" E	955
7.	Puliappattakkayal - II	20B 46a	10°45'0" N & 10°49'30" N	76°6'0" E & 76°9'0" E	2220
<b>Total</b>					<b>5911</b>

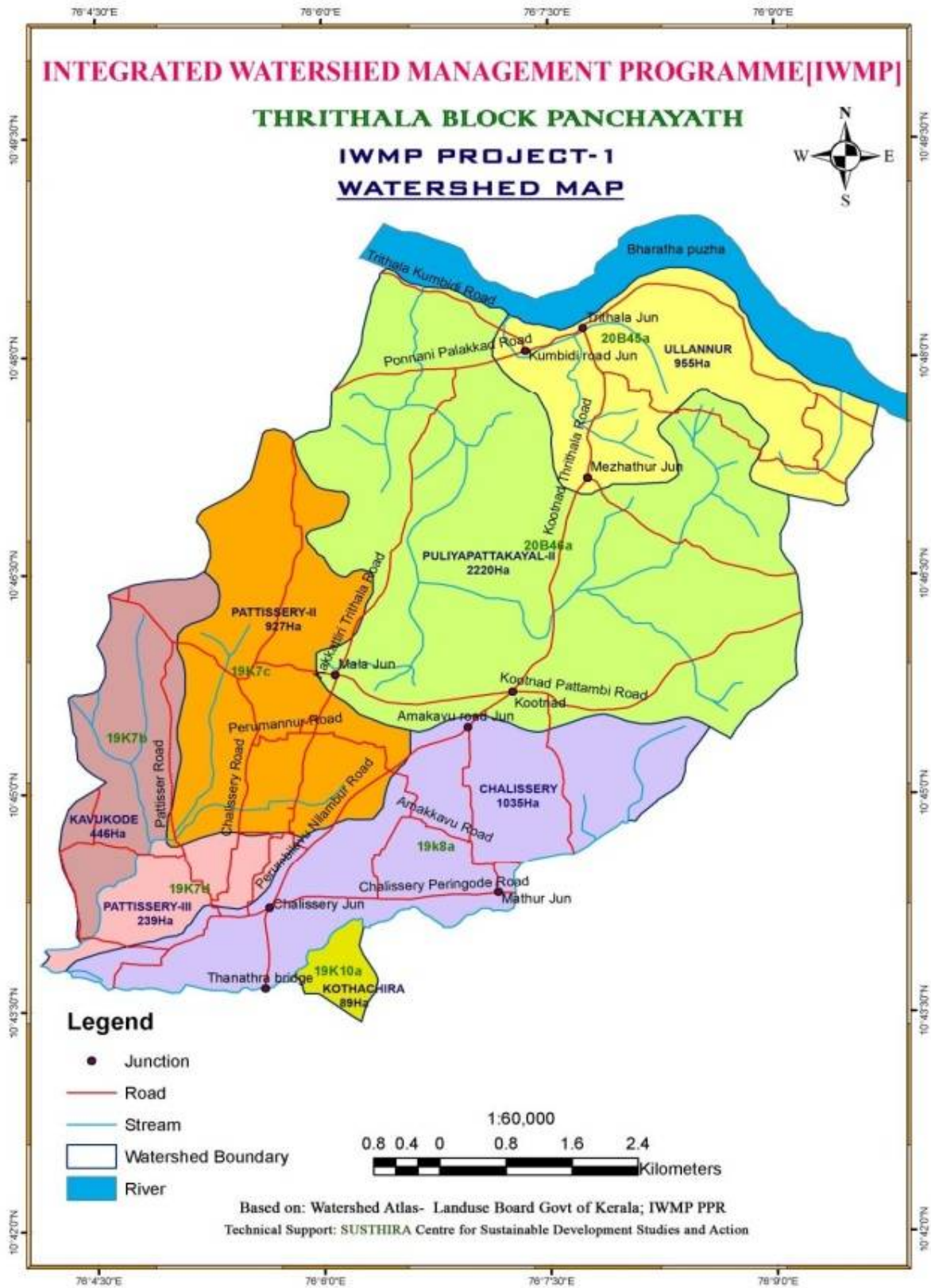


Figure 1 Watershed map of the project area

The evaluation team from CWRDM after discussion with the Block Panchayath president and officers visited the IWMP I project in Thrithala Block on 12/02/2019. The works visited by the team was the most important and useful structure constructed for agricultural crop production.

#### 1. Chittappura Shutter

The work is located in the Puliampattakkayal– II watershed of Pattithara Gram Panchayath. After the installation of the shutters the ground water table of the nearby area on both sides of the canal has improved significantly, which help them to meet their drinking water needs. Water detained at the shutter is used for irrigation. Irrigated area includes nearly 25 ha of plantain and paddy cultivation.

### **Summary of the Evaluation of Outcomes of PMKSY- WDC Project**

District	Palakkad	Date of visit	12/02/2019
----------	----------	---------------	------------

#### 1. Project Details

Project No	IWMP I/2010-11
Name of Block	Thrithala
Sanctioned Area (ha)	5911
Sanctioned Cost ( ` lakh)	886.65
Actual Cost ( ` lakh)	221.423 (24.97 %)
Name of Villages included in the project	Chalissery, Nagalassery, Pattithara, Thrithala

#### 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	7.50	6.10	There is increase of more than 1 m was noticed in most of the wells
2	Average depth of water table in tube wells	m	65	64	Marginal increase
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	--	35	10 rejuvenated, (4 farm ponds, 4 check dams, 2

					percolation tanks). 25 created.
4	Increase in Irrigation potential	ha	--	344	344 ha of additional area under protective irrigation
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha	--	--	No 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	50 Nil 25	56 Nil 25	6 ha increase  No change
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha	50  90	56  100	6 ha increase  Almost 90 % areas are double cropped
8	Cropping intensity	%	90	95	5% increase
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	20	25	Increase of 5 qt/ha
10	Area of horticulture crop	ha	--	--	
11	Employment in agriculture related activities among beneficiaries	Man days	--	1597	1597 man days of direct employment
12	Employment in non- agricultural sectors	Man days	--	--	
13	Fodder production	qt	--	7 ha	Additional fodder production in 7 ha land
14	Fuelwood production	qt	--	--	No data available.
15	Number of milch cattle	nos	5000	5500	Increase of 500
16	Milk production	Kl/yr	240	260	20,000 lit increase
17	Duration of flow of water in streams (upto November/December/January/February....May)		January	February	One month prolonged flow in streams

18	Improvement of drinking water facility		February	April	Two months extra due to soil and water conservation and harvesting measures
19	No. of persons engaged in ancillary activities like fishery, poultry, rural craftsmanship	nos	--	992	57 in Goat and cattle rearing and 935 in other SHGs
20	Number of children enrolled in schools in the project area	nos	--	--	All are school going
21	Reduction in migration from rural to urban area in the project area	nos	--	--	Slightly reduced
22	Annual mean household income	,	46000	50000	Rs. 4000 increase
23	<p>Any other measureable indicator of impact assessment</p> <p>i) Goat and Cattle production enterprise started as part of the project which benefits nearly 57 families.</p> <p>ii) Around 490 SHGs formed as part of the project and around 190 SHGs got assistance, which provide benefits to 935 beneficiaries.</p> <p>iii) Direct employment created for 1600 persons in terms of man-days.</p> <p>iv) 35 rain water harvesting structures created or rejuvenated as part of the project.</p> <p>v) Total No. of farmers benefitted out of project : 1604</p>				



**Figure 2 Shutter constructed at Chittappura near Puliampattakayal**