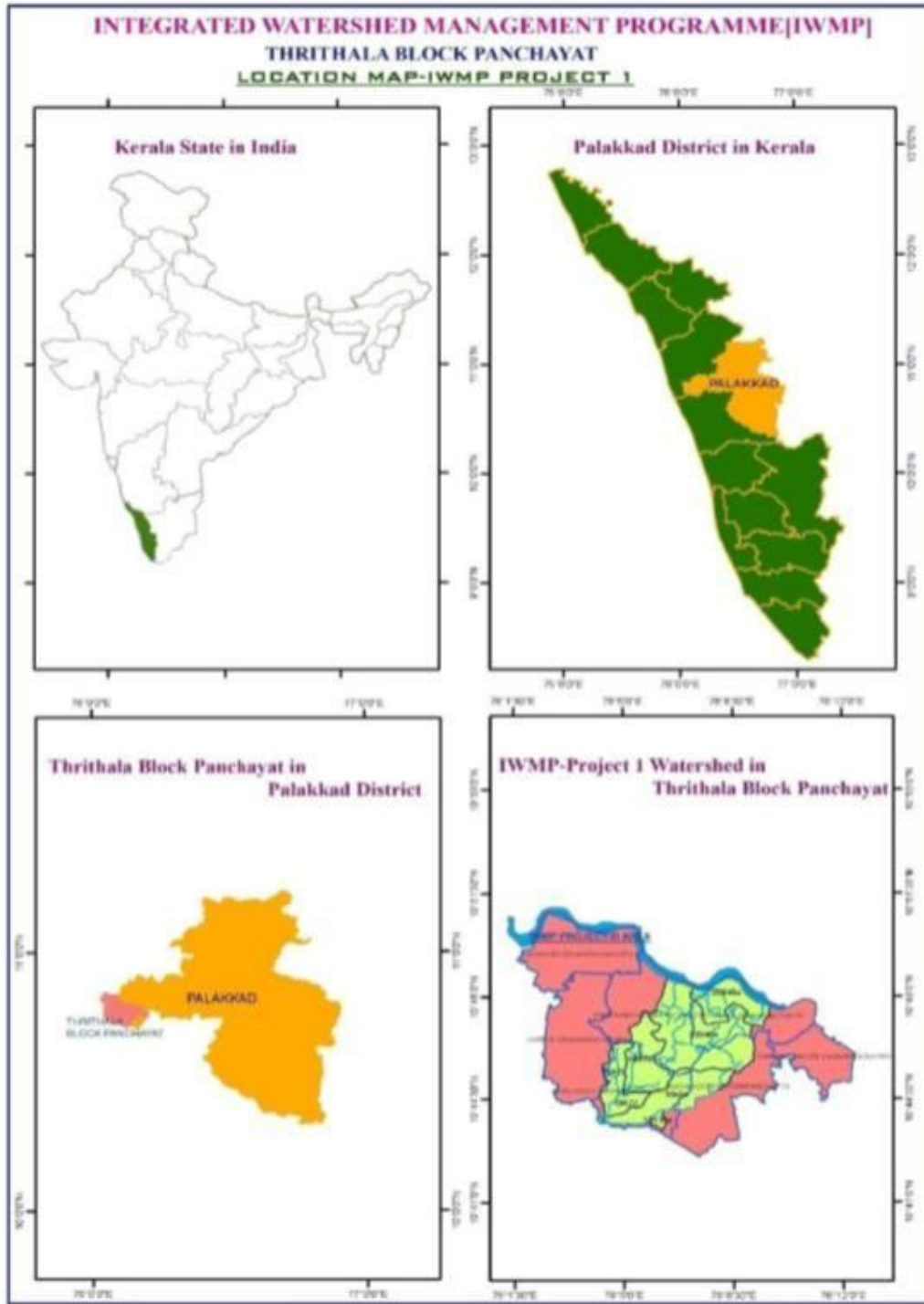


THRITHALA BLOCK (PALAKKAD DISTRICT)**Project No: IWMP-8 Palakkad batch 5**

Thrithala block is coming under Pattambi Taluk of Palakkad district having an area of 172.16 km². PMKSY VIII is implemented in 5061.67 ha area in 3 grama panchayat and 12 watershed areas. Thrithala block is situated in the western end of Palakkad district, Thrissuron the east side, Malappuram on the west and river Bharathapuzha on the north and Thrissur and Malappuram on the south. The main occupation of the people is agriculture. However, most of the studies reveal the Thrithala block as drought prone area. Considering this, useful activities were undertaken in this scheme with an aim to reduce the severeness of drought and to increase agriculture production. The total expenditure on project VIII is Rs 4,62,97,479/-.

Table 1. Details of micro watersheds

S.No	Watershed Name	Code	Area (ha)
1	Kavukode	19K 7b	446
2	Pattissery - III	19K 7c	927
3	Pattissery - II	19K 7d	239
4	Chalissery	19K 8a	1035
5	Kotachira	19K 10a	89
6	Ullannur	20B 20a	955
7	Puliyappattakkayal- II	20B 46a	2220
Total			5911



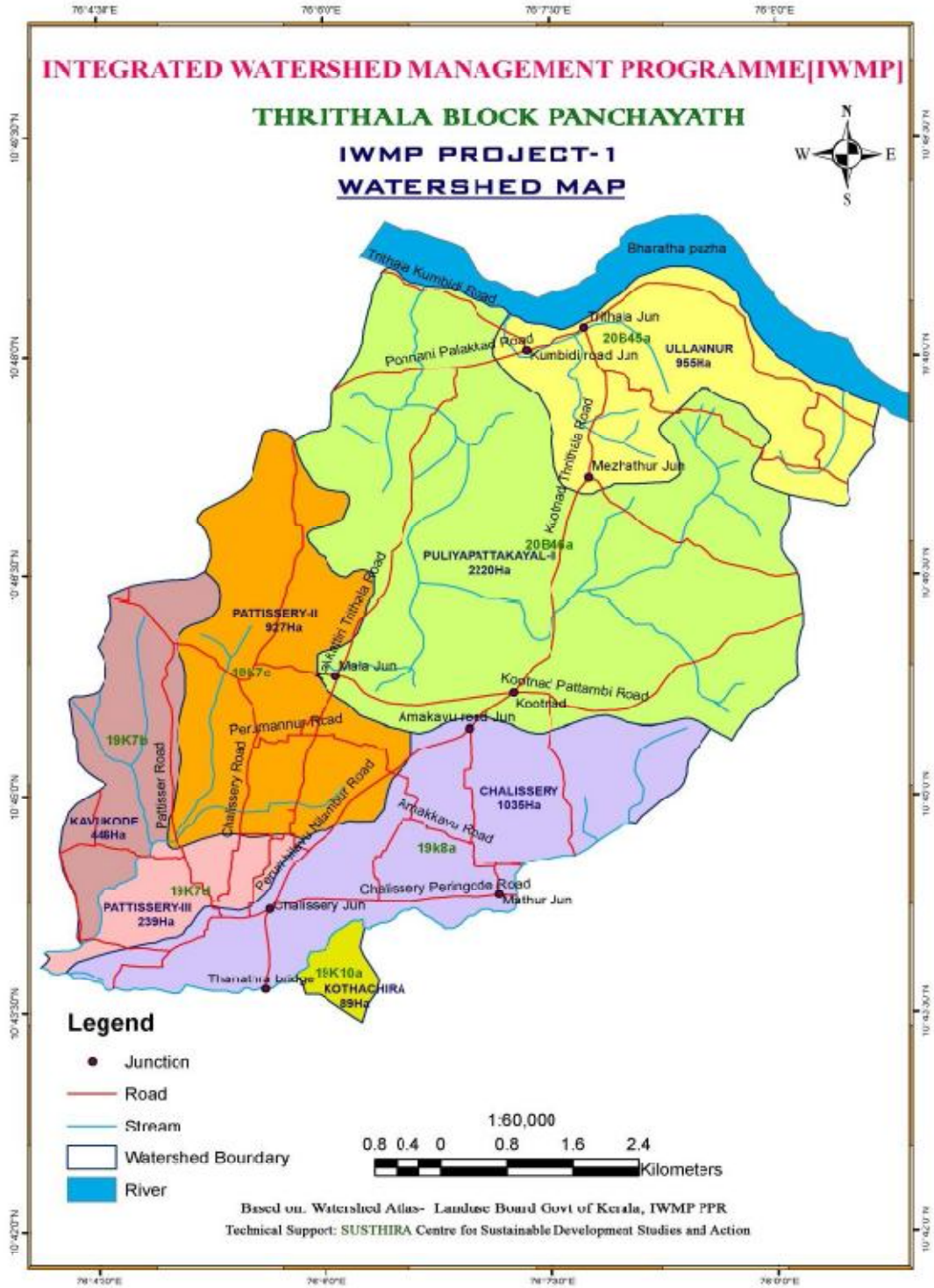


Fig 1: Map of the Watershed area

The project evaluation team from CWRDM, Kozhikode visited the IWMP watershed areas of Thrithala block of Palakkad district on 30.06.2022. Initially, the team discussed with

the block development officer and Village Extension officer to know about the perception of the project and implementation. After discussion, the team visited the IWMP sites.



Fig 2: CWRDM team at BDO office, Thrithala

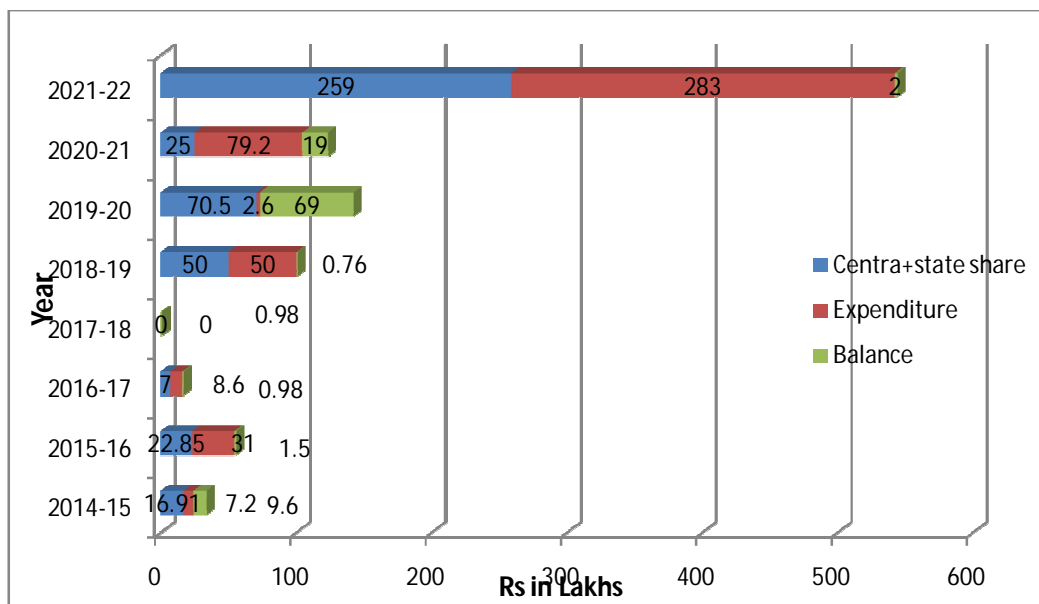


Fig 3: Financial overview of the Project

It is revealed from the above figure that the funds received were not uniform and the maximum amount of funds received in the last FY of the project. The expenditure also follows the same pattern. It was reported that no funds were received in FY 2017-18. This irregular fund allocation hampers the activities of the watershed.

Sites visited by the team:**1. Irrigation motors for farmers**

A small farmer Mr. Santhosh, who is finding it difficult to irrigate his land from the Pathiyanthodu watershed was given an irrigation motor pump of 1.5hp capacity. The unit cost of the activity is Rs. 14450/- with a beneficiary contribution of 25 %. With the help of this, now he could irrigate the vegetables and earn more income from the cultivation.

A total of 152 irrigation motors were distributed under the project and this helped in bringing more area under agriculture and also improved the income level of the farmer.

2. Biogas system

Mr. Udayan installed a biogas system in his house under the production system. Using domestic waste, the biogas plant generates gas for a duration of two hours/ day. The capacity of the biogas system is 0.5 m³ installed with a budget of Rs 1,500/- with 10 % beneficiary contribution.

A total of 10 biogas plants were distributed in the project area, this helped in saving the LPG and electricity for cooking to some extent.

3. Stream bank side protection

- a) Kothakulam thodu side protection was carried out for a length of 155m on both sides with a budget of Rs.14,78,700/-. Around 28 acres of land getting benefitted under this structure. Paddy is the predominant crop cultivated in this area and during the summer season vegetable cultivations are practiced.
- b) Another side protection work was visited at Siruppurpadamthodu. The total length of work is 250 m. More than 50 acres of cultivable area is benefitted under this work. This structure was constructed during 2021-22 with a budget of Rs.14, 84,800/-.

This work resolved flooding and water logging issues in the region. Altogether 20 side protection works were completed as part of the PMKSY project. This initiative helped to restore the natural drainage and the normal flow of the streams. The consistent flow of the drain raised the water level in the nearby wells, ensuring the availability of drinking water. In addition to this, stream bank erosion is controlled, and the edges of the banks were stabilised. This initiative has also been advantageous to the farming sector.

4. Well recharge

Mr. Unnikrishnan from Pathiyanthodu installed a roof water harvesting along with groundwater recharge. The total cost of the structure was Rs.8000/- with a 10 % beneficiary contribution. He is happy that now he can able to irrigate his 80 cents of agriculture land. After installing this structure, water scarcity was reduced. Even one event of rainfall increases the groundwater level in the open well. Similar kind of recharge structures was visited in different watersheds of the block.

5. Moothirikulam Pond Construction

A new pond was constructed at barren land in the Ittonam watershed area which was observed as a pond during the olden days. Around 2.4 ha of the land area is getting benefitted under this pond. Local people and school children are using this pond for swimming as well.

The pond serves as a natural catchment area for precipitation, stores it, and recharges the groundwater while also serving as a gauge for the local water table.

6. Kadichira thodu tractor ram

Kadichira thodu tractor ram was constructed during 2019-20 with a budget of Rs. 2,39,000/-. After constructing the tractor ram, 50 ha of area was converted into cultivable land. Before ramps were created, it was rather challenging to get new agricultural machinery into the field. But because of this initiative, it was easy to use contemporary equipments in the field and easy to transport the harvested produce to the market.



Discussion with block development officer at Thrithala block



Irrigation motor



Biogas plant



Kothakulam thodu side protection



Well recharge



Siruppurpadam thodu side protection

**Side protection****Kadichira thodu tractor ram**

Concluding remarks

- PMKSY VIII is implemented in 5061.67 ha area which consists of 3 Grama panchayath and 12 watershed areas with a sanctioned cost of Rs 759.25lakhs. Around 20 side protection works, 13 shutters, 7 tractor ramps, 4 sluice gates, and 3 farm ponds were constructed under NRM activity.
- In livelihood, 67 self-help groups were assisted by giving seed money for Poultry, goat rearing, and farming.
- In the production sector 152 irrigation motors, 321 wheelbarrows, 10 biogas plants, 5092 coconut saplings and 2526 other fruit saplings were distributed. Through these interventions, the life of poor people in the block area was uplifted



- Groundwater recharge structures were undertaken across the block. Implementing these interventions results in improving groundwater potential from the critical to semi-critical stage.

Summary of the Evaluation of Outcomes of PMSKY-WDC Project

District: Palakkad

Date of visit : 30.06.2022

1. Project Details:

Project No: IWMP-8 Palakkad Batch 5

Name of Block: Thrithala

Sanctioned Area: 5061.67 Ha

Sanctioned Cost (Rs in lakhs): 759.25

Name of Villages included in the project--Nagalassery 1, thirumittakkode 1 & 2, thrithala 1

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	5.56 4.03	5.3 3.49	No major change was observed
2	Average depth of water table in tube wells	m	-	-	Data not available
3	Number of groundwater structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	0	76	11 structures rejuvenated
4	Increase in Irrigation potential	ha	--	131	131 ha increase in protective irrigation
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha	--	338.75	Considerable area of wasteland brought under productive use

6	Change in cropping/land use pattern <ul style="list-style-type: none"> •Area under Agriculture Crop •Area under plantation/forest cover •Area Under Wastelands 	ha	--	3214 595 177	Improvement in agriculture area was noticed
7	Area Under Agriculture Crop <ul style="list-style-type: none"> •Area under Kharif crop •Area under rabi crop •Area under double crop 	ha	--	2984 - 230	Area under paddy and double crop marginal increase
8	Cropping intensity	%	118	122	4 % increase
9	Increase in Yield /ha of crops <ul style="list-style-type: none"> •rabi crop •Kharif crop 	qt/ha	--	1600	3qt/ha increase
10	Area of horticulture crop	ha	--	1276	7618 horticulture saplings were distributed
11	Employment in agriculture related activities among beneficiaries	Man days		8360	4133 mandays of employment generated under the project
12	Employment in non- agricultural sectors	Man days		10233	
13	Fodder production	qt	--	--	8 % increase in fodder production
14	Fuelwood production	qt	--	--	No data
15	Number of milch cattle	nos	--	7459	Exact data not available. About 6 % increase due to setting up of cattle rearing units
16	Milk production	Kl/yr	--	1000	Exact data not available. 8-10% increase
17	Duration of flow of water in streams (upto November/December/January/FebruaryMay)		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		23	
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		26	Migration reduced during the project period
22	Annual mean household income	Rs	40000	48000	Increase of Rs. 8000/-
23	Any Other Measurable indicator of impact assessment <ul style="list-style-type: none">• Total rainwater harvesting structures created- 1318 Nos• Total rainwater harvesting structures rejuvenated- 11 Nos• Additional area brought under protective irrigation- 131 ha• Number of farmers benefited- 963 Nos• Direct employment created- 4133 man-days• SHGs assisted: 67				

Success story:

Moothirikulam new construction

Under PMKSY scheme in project VIII, a new pond was constructed in Ittonam watershed area in Thirumittakode Grama Panchayath. According to local farmers, a pond was existed 40 years ago and diminished gradually. If pond was rebuilt it will provide irrigation to 40 farmers and will drain around 2.4ha paddy land. The issue was presented to the watershed committee and was selected for NRM activity.

The team led by the village extension officer visited the place and at that time the land become barren completely. Subsequently, a beneficiary committee was formed and the work was initiated. The total cost of pond construction was Rs. 9,25,000/-. The capacity of rebuilt pond is 36 lakh litres of water and provides irrigation and drainage facility to 2.4 ha of paddy land. Around 35 families got benefit from this work. Moreover, in this pond swimming training was given to 200 students.

