

MALLAPPALLYBLOCK – IWMP -III (PATHANAMTHITTA District)

The project area is located in the Mallappally Block of the Pathanamthitta District. It consists of 5 micro watersheds namely Mallappally, Keezvaipur, Vadakkekara, Panayambala and Kottor spread across five gram panchayaths namely Anikkad, Mallappally, Kallooppara, Kaviyoor and Thurithikkad. The project has a total area of 5500Ha. It is located between 9°23'6.72"N to 9°29'9.6"N latitude 76°36'28.81"E to 76°42'44.64"E longitude.

Table 1. Details of micro watersheds

SI No	Name of Watershed	Watershed code	GPs covered	Area (in Ha)
1	Kottor	11M23a	Kaviyoor and Thurithikkad	669
2	Panayambala	11M23c	Kallooppara	685
3	Vadakkekara	11M24a	Kallooppara	793
4	Mallappally	11M25a	Anikkad	1562
5	Keezhvaypur	11M51a	Mallappally	1791
Total				5500

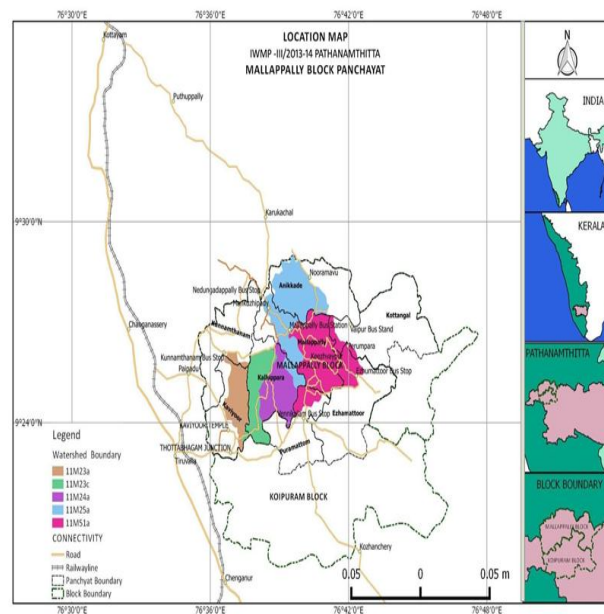


Fig 1: Map of the Watershed area

The evaluation team from CWRDM visited the watershed area on 08/07/2022 and had a discussion with the BDO and Extension officer.

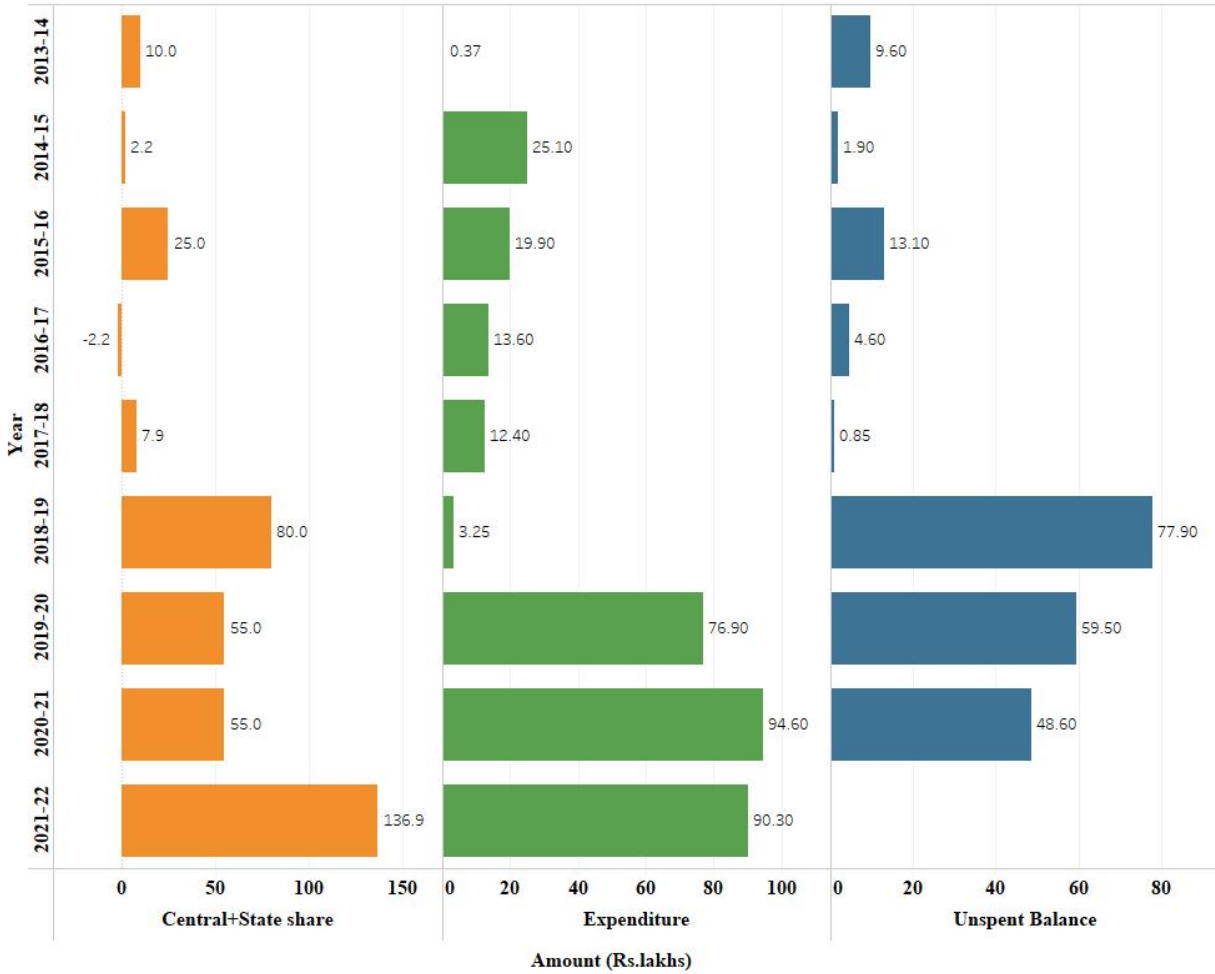


Fig 2. Financial overview of the Project

A total of Rs. 369.9 lakhs were received from the central as well as state Government, out of which Rs. 336.8 lakhs has spent towards different interventions under IWMP project in the Block and the remaining amount has been refunded to SLNA. The approved project cost was Rs. 660 lakhs and the actual amount received is nearly 50 per cent of it. It was observed that the more amount of fund has received in the last financial year and the increase in expenditure was noticed from the FY 2019-20 onwards.



The works visited by the team are:

1. Renovation of Charakuzhy public well

This work is located at the Mallappally watershed of Anikkad panchayath. The work was completed at a cost of Rs. 1,46,161/-. Nearly 20 houses use this water during the summer months.

2. Well recharging at Keezvaipur watershed

Well recharging structure was installed at 'Omana Kuttan' house in Keezvaipur watershed of Mallappally panchayath. It had a unit cost of Rs. 8000/-. After installing well water recharge, the households will get water throughout the year.

3. Production System Management by Varkey George

A Jersey breed of cow was purchased under the Production system management by 'Varkey George' of Keezvaipur watershed in Mallappally panchayath. The cow provides milk to the households as well as they sell the milk to society for Rs 35 /L and direct selling to families at Rs 50 /L. It provides a marginal increase in the annual income of the household.

4. Renovation of palamukku natural spring side wall stabilization

This natural spring lies in the Vadakkekara watershed of the Kalloopara panchayath. The water in the spring is used mainly during the summer months for drinking and bathing. More than 50 families get benefit from this spring. This work was completed at a cost of Rs. 87325/-.

5. Renovation of Puthussery Dharmasathra temple pond

This construction is located at Panayambala watershed of Kalloopara panchayath. The work was finished at a cost of Rs. 1,21,495/-. The water in the pond was mainly used for temple activities. Due to renovation of this pond, the water is available throughout the year.

6. Ramp Near Thuruthel School

This ramp is located at Kottoor watershed in Thurithikad Panchayath. It is 8m long and 6.5m broad, helps in easy transportation of machinery to the paddy fields. In this region, cultivation is only during the pancha season. The ramp was built at a cost of Rs.2,25,770/-.

Summary of the Evaluation of Outcomes of PMSKY-WDC Projects

District	Pathanamthitta	Date of Visit	07/07/2022
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1. Project Details:

Project No.	IWMP III 2013-14
Name of Block	Mallappally Block Development Office
Sanctioned Area (ha)	5500
Sanctioned Cost (Rs in lakh)	660
Name of Villages included in the project	Kaviyoor, Mallappally, Anicadu, Kalluppara, Puramattom, Ezhumattoor

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	3.25	3.05	Increase is marginal in many wells
2	Average depth of water table in tube wells	m	10.25	9.25	1 m increase in water column
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	20606	20634	28 structures rejuvenated
4	Increase in Irrigation potential	ha	1407	1588	An increase of 181 ha
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc.)	ha	53	74	21 ha of wasteland brought under productive use



6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha	2735 2015 205	3275 2095 115	8.5 ha of pasture land, 66 ha of afforestation
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under rabi crop (iii) Area under double crop	ha	4780 -- --	5010 -- --	Nearly 230 ha of area more under Kharif season
8	Cropping intensity	%	104	109	An increase of 5 %
9	Increase in Yield /ha of crops (i) rabi crop (ii) Kharif crop	qt/ha	-- 20	-- 22	Yield varies from year to year
10	Area of horticulture crop	ha	105	125	20 ha of horticulture crop increased
11	Employment in agriculture related activities among beneficiaries	Man days	3340	5507	
12	Employment in non- agricultural sectors	Man days	1510	1700	
13	Fodder production	qt	125800	132801	
14	Fuelwood production	qt	--	--	No data available
15	Number of milch cattle	nos	2150	2250	Marginal increase in the number of milch cattle
16	Milk production	Kl/yr	1062	1168	Around 10 % increase
17	Duration of flow of water in streams (upto November/December/January/February....May)		Up to December	Up to January	
18	Improvement of drinking water facility		January	March	
19	No. of persons engaged in ancillary activities like fishery, poultry, rural craftsmanship	nos	2530	2840	277 units of poultry distributed
20	Number of children enrolled in schools in the project area	nos	--	--	Cent per cent of the

					children enrolled in schools
21	Reduction in migration from rural to urban area in the project area	nos	452	320	28547 mandays created
22	Annual mean household income	Rs	75500	80000	
23	Any other measurable indicator of impact assessment i) 350 units of grow bags and 277 poultry units were distributed under the production system ii) 28547 mandays of employment generated under the project. iii) 610 total rainwater harvesting structures created.				



Renovation of Charakuzhy public well



Well recharge



Production system at Varkey George house



Renovation of palamukku natural spring and side wall stabilization



Renovation of Puthussery Dharmasathra temple pond



Ramp Near Thuruthel School

Success story

Contour bund construction at Mallapally watershed of Anikkad panchayath

This work is located in the Mallapally watershed of Anikkad Gram Panchayath and constructed at a cost of Rs. 301823 /- (around Rs. 143/m). Rubber and plantains are mainly cultivated on the land. There was a significant improvement in the groundwater table of the area after the construction of the bunds. Since the entire area of the watershed is of undulating topography, this type of contour bund is very much essential in undulating topography like Kerala. It will significantly contribute to the groundwater recharge in the watershed and also control soil erosion.

