

## Endline Evaluation of PMKSY-WDC Watershed Projects

### REPORT: AREACODE BLOCK – AREACODE A1 (Malappuram District)

Areacode A1 Project area is situated in the Northern part of the AreacodeBlock in Malappuram District. The total extent of the cluster is 52.63 sqkm, which is 1.7 % of the total extent of the district. The cluster area bounded on the north byKodiyathurPanchayath of Kozhikode, east by Urangattiri GramPanchayath, and south by Kuzhimanna Gram Panchayath west by the Pulpatta Gram Panchayath.

The Cluster area is situated between 11° 11'6'' N and 11° 16' 8''North latitude and between75° 58'0'' and 76° 6'0'' in the east longitude.

Areacode A1 project includes 10micro watersheds that come in Areacode and Kondotty Blocks Panchayath, Malappuram district of Kerala. Among these watersheds Meleparambu, Arimbrakuth, Areacode, Ugrapuram, Vallayil-Chembrakattur and Asharithodu are within the boundaries of Areacode Block Panchayath. Poomkudipadam, Chaliyar and Chaliyapram watersheds are within the limits of Kondotty Block Panchayath.

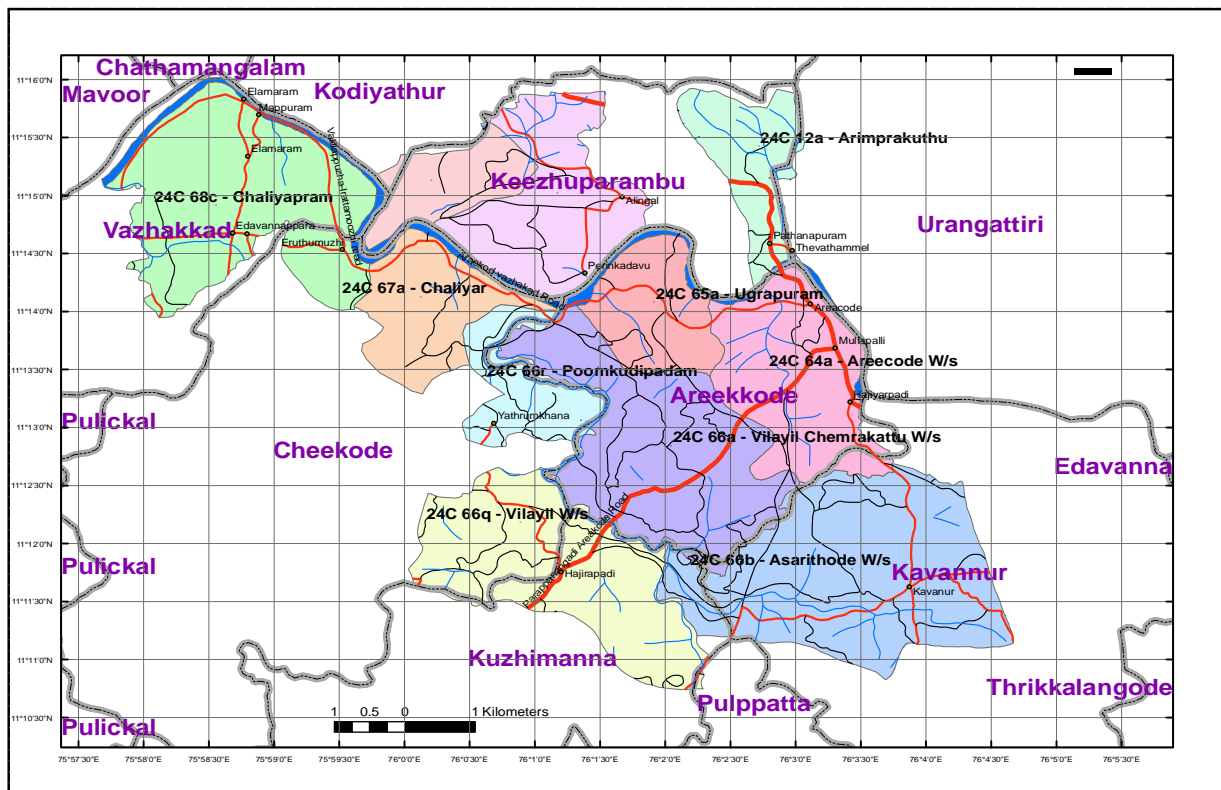


Figure 1 Location map of the project area

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

Name of Watershed	Code	Gram Panchayath	Block	Total Area (ha)	Treatable Area (ha)
Melaparambu Valiyathodu	24C10a	Keezhuparamba	AreacodeKondotty	701	600
Arimprakuthu	24C12a			265	265
Areacode	24C64a	Areacode		539	495
Ugrapuram	24C65a			327	327
Vallayil Chemrakattur	24C66a			840	840
Asarithodu	24C66b	Kavanur		977	976
Vilayil	24C66q	Cheekkode		939	873
Poonkudipadam	24C66r			202	195
Chaliyar	24C67a			300	300
Chaliyapuram	24C68a	Keezhuparamba		392	392
<b>Total</b>				<b>5482</b>	<b>5263</b>

The evaluation team from CWRDM visited IWMP IIAreacodeA1 project on 22/01/2019. Following are the works visited by the team:

1. CholayilKulam pond rennovation

The pond is located in the VallayilChemrakatturwatershed of Areacode Gram panchayath. The pond is nearly 20 years old and the renovation has benefitted more than 5 families who depend on this pond. The pond is mainly used for irrigation.

2. Velleri public wellconstruction

The well is located in the VallayilChemrakattur watershed of Areacode Gram panchayath. More than 20 families use this well for domestic purposes. The well has benefitted all of them.

### 3. Well recharge structures

A total of 133 structures were constructed in the Asarithodu watershed of Kavannur Grampanchayath. The cost of each unit was about ` 10000. These structures directly improved the ground water availability of the area.

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

District	Malappuram	Date of visit	22/01/2019
----------	------------	---------------	------------

### 1. Project Details

Project No	IWMP 2/2010-11
Name of Block	<b>Areacode</b>
Sanctioned Area (ha)	5263
Sanctioned Cost (Rs in lakh)	789.45
Actual expenditure (Rs in Lakh)	336.77 (April 2018) 42.66%
Name of Villages included in the project	Keezhuparamba, Areacode, Kavanur, Cheekkode.

### 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	7.8	6.7	A rise of more than 1m in watertable
2	Average depth of water table in tube wells	m		--	Not available
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	--	590	19 farm ponds rejuvenated 571 newly created
4	Increase in Irrigation potential	ha	-	222	Brought under protective irrigation
5	Area of Wasteland brought under productive	ha			No wasteland

	use (like agriculture, plantation,fodder,etc)				brought for prod.use
6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha	- --	2.2 4.05 ha	Horticulture Forest area increase
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha			Nominal rise in paddy area
8	Cropping intensity	%			2% increase
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	24	26	2 qt/ha
10	Area of horticulture crop	ha		2.2	2.2 ha increase
11	Employment in agriculture related activities among beneficiaries	Man days			44397 mandays of direct employment created
12	Employment in non- agricultural sectors	Man days			
13	Fodder production	qt	500	550	50 qt increase
14	Fuelwood production	qt		-	
15	Number of milch cattle	nos	60	100	Increase of 40
16	Milk production	Kl/yr	120	130	10,000 lit increase
17	Duration of flow of water in streams (upto November/December/January/February....May)		Jan	March	2 months prolonged flow
18	Improvement of drinking water facility		March	April	1 month enhanced
19	No. of persons engaged in ancillary activities like fishery, poultry,rural craftsmanship	nos	40	60	20 persons
20	Number of children enrolled in schools in the project area	nos			All are enrolled
21	Reduction in migration from rural to urban area in the project area	nos			44397mandays generated from project alone
22	Annual mean household income	Rs	39000	45000	Rs. 60000 increase

23	<p>Any other measureable indicator of impact assessment:</p> <ul style="list-style-type: none"><li>i) A total of 5495 farmers were benefitted out of the watershed development activities</li><li>ii) Production system and Micro enterprises : 283 Banana cultivation, 20 Grow bags and 8 tapioca cultivation</li><li>iii) SHGs formed /assisted : 180</li></ul>
----	---



Public well constructed at Velleri in Vallayil Chemrakkattur watershed



Renovated Cholayil pond in Vallayil Chemrakkattur watershed



One of the roof top water harvesting well recharge structures installed in Asarithodu watershed