

# Endline Evaluation of PMKSY-WDC Watershed Projects

## REPORT: AREACODE BLOCK – WANDOOR B1 (Malappuram District)

Wandoor B1 Project area is situated in the Northern part of the Areacode&Wandoor Block. The Cluster area is situated between 11° 11'0" N and 11° 16' 0"North latitude and between 76° 50'0" and 76° 11'0" in the east longitude. The total extent of the cluster is 4203hectares, which is 1.41 % of the total extent of the district. The cluster area bounded on the north by Urangattiri and Chaliyar Gram Panchayats, east by Edavanna, Mampad and Thiruvalli Gram Panchayats, south by Trikkalangode and Kavanur Gram Panchayath and west by Kavanur and Urangattiri Gram Panchayath.

Wandoor B1 project includes eight micro watersheds that comes under both Areacode and Wandoor blocks Panchayaths. Among these watersheds Keliyanthodu, Kanjirikundu, Eliyankottupara, Muthirottithodu, Edavazhikundu and Pannipara are within the boundaries of Areacode Block Panchayath. Panarkund and Pullipadam watersheds are within the limits of Wandoor Block Panchayath.

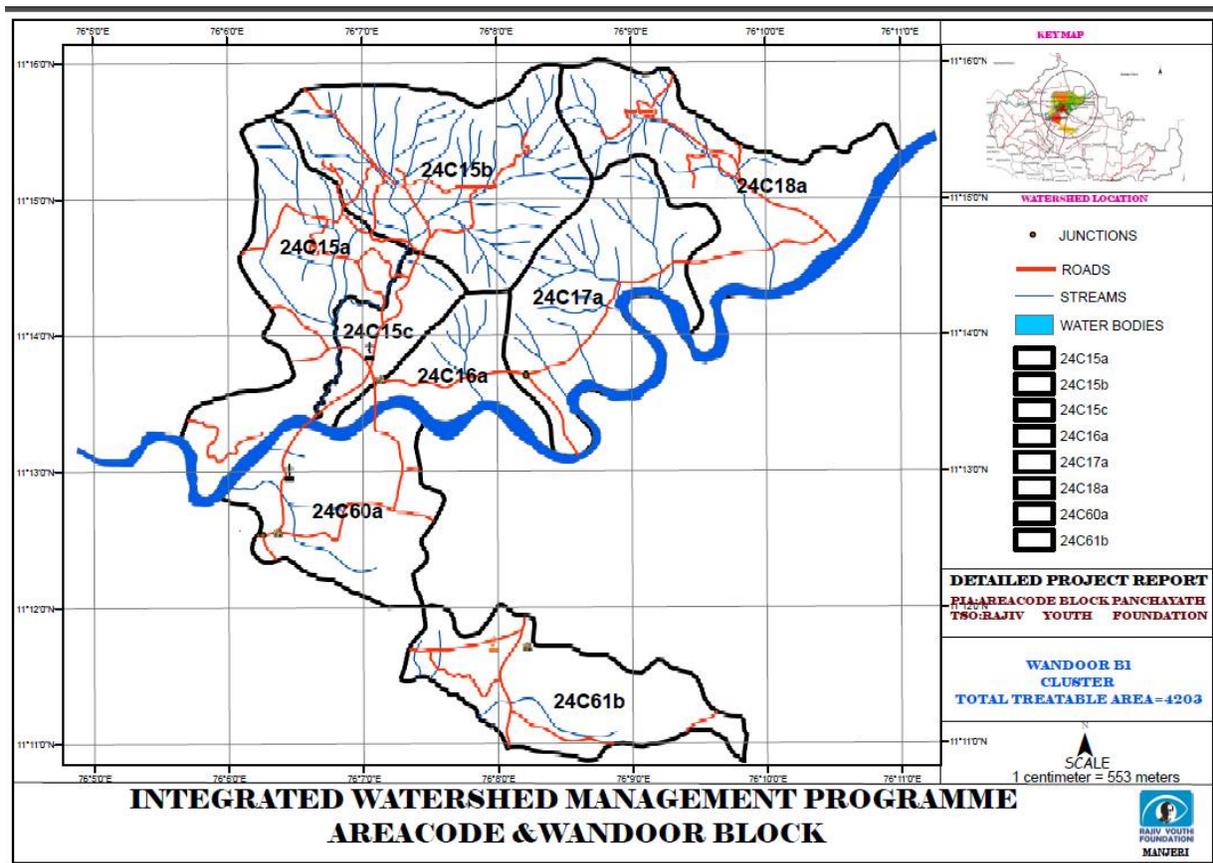


Figure 1 Location map of the project area

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

Name of Watershed	Code	GramaPan chayath	Block	Total Area (Ha)	Treatable Area (Ha)
Edavazhikund	24C15a	Areacode	Areacode&Wandoor	618	618
Kanjirakund	24C15b	Edavanna		791	791
Kelilyanthodu	24C15c	Edavanna		196	196
Eliyankottupara	24C16a	Edavanna		304	271
Muthirittithodu	24C17a	Edavanna		660	625
Pullipadam	24C18a	Mambad		746	714
Pannipara	24C60a	Mambad		482	482
Panarkund	24C61b	Edavanna, Thiruvalli		544	506
Total				<b>4341</b>	<b>4203</b>

The evaluation team from CWRDM visited IWMP I Wandoor B1 project on 22/01/2019. After the initial discussion with Block officials and associated project team, a field visit was made. Following are the works visited by the team:

1. Rainwater harvesting tank

The structure is located in the Pullipadam watershed of Mampad Gram panchayath. The tank is made of ferrocement and has a capacity of 12,300 L. It was constructed at a cost of Rs. 85,070. The tank appeared to be out of use at the time of visit.

2. Valiyapaadam well

The well is located in the Kanjirakkund watershed of Edavanna Grampanchayat. There were no pumps installed in the well for proper utilisation of the available water. The well is situated next to a canal. The side protection work of this canal was damaged during the flood that hit Kerala in August 2018.

3. Side protection work

This work is done in the Kanjirakkund watershed of Edavanna Gram panchayat. The stream passes through Thenkinkunnu SC Colony and the side protection kept the plots of the

residents safe from erosion during heavy rains. But during the flood of August 2018 the side protection was entirely damaged owing to the landslide which brought huge boulders down the hill through this stream.

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

District	Malappuram	Date of visit	22/01/2019
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#### **1. Project Details**

Project No	IWMP 1/2010-11
Name of Block	Areacode (Part in Wandoor)
Sanctioned Area (ha)	4203
Sanctioned Cost (Rs in lakh)	630.45
Actual Expenditure (Rs. in Lakh)	274.32 (April 2018) 43.51 %
Name of Villages included in the project	Areacode, Edavanna, Mambad, Thiruvalli

#### **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	8.3	7.4	Nearly 1 m rise in watertable
2	Average depth of water table in tube wells	m	-	-	Data not available
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated Water harvesting structures newly created	nos. Nos	--	3 266	wells3, GW recharge structures 10. Percolation tanks 256
4	Increase in Irrigation potential	ha	--	84.8	Area brought under protective irrigation
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha	--	Nil	No wasteland was developed
6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha	--	11.7 8.5 --	1.6 under Agriculture. 10.1 under horticulture 8.5 ha brought under forest

7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha		11.7 ha	Area under horticulture and paddy increased
8	Cropping intensity	%			Approx. 3% increase
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	22	25	3qt/ha
10	Area of horticulture crop	ha	--	10.1	10.1 ha additional
11	Employment in agriculture related activities among beneficiaries	Man days			15737 man days of direct employment created
12	Employment in non- agricultural sectors	Man days			
13	Fodder production	qt	500	750	30 cattle population
14	Fuelwood production	qt			Data not available
15	Number of milch cattle	nos			Exact data not available. 68 cow units (Dairy). Goat rearing 27
16	Milk production	Kl/yr	30	50	20,000 lit approx..
17	Duration of flow of water in streams (upto November/December/January/February....May)		January	March	Two months prolonged flow
18	Improvement of drinking water facility		February	April	Two months enhanced water availability
19	No. of persons engaged in ancillary activities like fishery, poultry,rural craftsmanship	nos	20	45	25 persons. 5 poultry units started.
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	-	-	15737mandays
22	Annual mean household income	Rs	30,000	36,000	Rs. 6,000 increase
23	Any other measureable indicator of impact assessment i) SHGs formed/assisted : 595 ii) No. of farmers benefitted out of project : 2222				

	iii) Production systems and micro enterprises include : Banana cultivation : 120, vegetable cultivation : 26 , Tapioca : 3 paddy :2, and Grow bags unit :15
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Rainwater harvesting tank in Pullipaadam watershed



Side protection work damaged during flood in August 2018



Side protection work in Thekkinkunnu SC Colony



Valiyapaadam well in Kanjirakkund watershed