

Endline Evaluation of PMKSY-WDC Watershed projects

REPORT: PARAPPA BLOCK – IWMP 2(Kasaragod District)

The project has a total area of 4972 Ha, of which Parappa has a major share of 4381 Ha. The total area is spread over in Kodom-Belur, Madikkai, Balal and Kinanoor-Karinthalam gram panchayats. It consists of 13 micro watersheds namely Chullikkara, Parakkallu, Kunnumvayal, Eladi, Attakandam, Edathodu, Mundymanam, Anapetty, Koovatti, Malappacheri-Manimunda, Uthirchankavu, Mayyanganam and Cheralam.

Table 1 Details of microwatersheds in the project area

Sl no	Name of Micro Watershed	Code no.	River basin	Grampanchayat	Effective Area (Ha)
1	Chullikkara	40C 33b	Chandragiri	Kallar-Kodom-Belur	568
2	Parakkallu	40C 36d	Chandragiri		598
3	Kunnumvayal	40C 36c	Chandragiri		219
4	Eladi	40C 36e	Chandragiri	Kodom-Belur	278
5	Attakandam	38N 9e& f	Nileswaram	Kodom-Belur,Balal	565
6	Edathodu	38N 10c	Nileswaram		159
7	Mundymanam	38N 10e	Nileswaram		373
8	Anapetty	38N 10b& f	Nileswaram	Kodom –Belur	315
9	Koovatti	38N 10a&g	Nileswaram	Kinanur-Karinthalam	342
10	Malappacheri-Manimunda	38N 8a &9a	Nileswaram	Madikai	499
11	Uthirchankavu	38N 9b	Nileswaram	Kodom- Belur&Madikai	233
12	Mayyanganam	38N 9g	Nileswaram	Kodom-Belur	322
13	Cheralam	38N 9c	Nileswaram	Kodom- Belur&Madikai	501
Total					4972

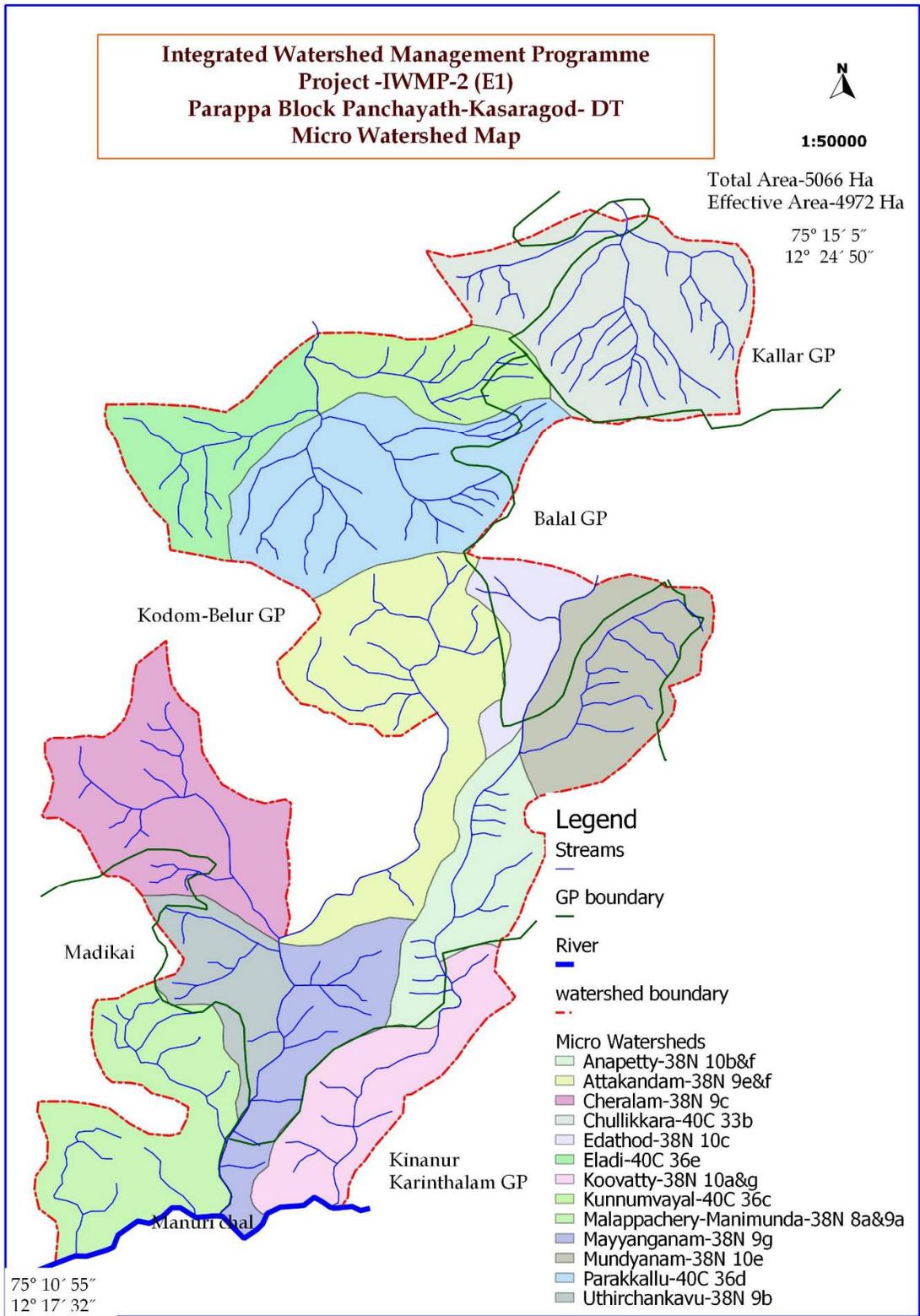


Figure 1 Watershed map of the project area

The evaluation team from CWRDM visited the project area on 02/02/2019. The works visited by the team were:

1. Mampalam Pond

This pond lies in the Kunnumvayal watershed of Kodom-Beloor grampanchayath. More than 15 families live in the vicinity of the pond, but only 2 or 3 families actually make use of the pond. The water in the pond becomes very scarce in peak summer.

2. KoliyarAttakannam checkdam

The work is located in the Attakandam watershed of Kodom-Beloor gram panchayath. The checkdam has a 300m long wing wall and the shutters are made from Anjili wood. The stream is seasonal and several ST families benefit from this stream

3. Therale checkdam

This checkdam is situated to the downstream of KoliyarAttakannam checkdam and belongs to the same watershed. There is a water tract built in to the checkdam and it serves to irrigate nearly 17 Ha of land.

Summary of the Evaluation of Outcomes of PMSKY-WDC Project

District	Kasaragod	Date of visit	02/02/2019
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1. Project Details

Project No	IWMP II
Name of Block	Parappa
Sanctioned Area (ha)	4972
Sanctioned Cost (Rs in lakh)	745.8
Actual Expenditure (Rs. in Lakh)	311.52 (as on March 2018 - 41.77%)
Name of Villages included in the project	Belur, Parappa, Thayanur, Kallar

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	1.45	1.70	Water Column depth(February)
2	Average depth of water table in tube wells	m	15	18	April- 3 m increase in water column
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	42	57	14 structures newly constructed and one was renovated
4	Increase in Irrigation potential	ha	685	965	Increase of 280 ha
5	Area of Wasteland brought under productive use (like agriculture, plantation,fodder,etc)	ha	73	62	11 ha of wasteland developed for 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	3928 93 73	4163 110 62	235 ha increase 17 ha increase 11 ha reduced
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha	3928	4163	Area under paddy and other crops increased by 235 ha

8	Cropping intensity	%	63	68	5% increase
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	24	25	Paddy increase 1 qt/ha
10	Area of horticulture crop	ha	497	546	Increase of 49 ha
11	Employment in agriculture related activities among beneficiaries	Man days	--	22,635	22,635mandays generated as direct employment
12	Employment in non- agricultural sectors	Man days			
13	Fodder production	qt	1430	1632	202 qt additional production
14	Fuelwood production	qt	-	-	No data
15	Number of milch cattle	nos	1026	1123	Increase of 97
16	Milk production	Kl/yr	1477	1617	139560 lit increase in milk production
17	Duration of flow of water in streams (upto November/December/January/February.... May)		January	March	Prolonged flow of two months in summer
18	Improvement of drinking water facility		February	April	Water availability increased for two months
19	No. of persons engaged in ancillary activities like fishery, poultry,rural craftsmanship	nos	140	198	Increase of 58
20	Number of children enrolled in schools in the project area	nos	-	-	All children enrolled
21	Reduction in migration from rural to urban area in the project area	nos	-	-	22,635 mandays generated
22	Annual mean household income	Rs	32000	36000	Rs 4000 increase in household income
23	Any other measureable indicator of impact assessment i)Water availability increased inMampalam pond needs further development to benefit 17 families. Storage space to be increased ii) SHGs : 31, production systems made available in 51 ha. iii)No of farmers benefitted : 1863				



Renovated Mampalam pond in Kunnumvayal watershed



KoliyarAttakannam check dam in Attakannam watershed



Therale check dam in Attakannam watershed