

Endline Evaluation of PMKSY-WDC Watershed projects
REPORT: PARAPPA BLOCK – IWMP 1(Kasaragod District)

The project area lies in the Parappa Block of Kasaragod District. It consists of 11 micro watersheds namely Kanhiradukkam, Iriya, Kumbala, Modagrame, Lalur, Kuyyangad, Chenthalam, Ayarot, Kottodi, Painikkara and Vannathikkanam spread across threegramapanchayaths namely Kodom-Belur, Pullur-Periya and Kallar. The cluster has a total treatable area of 5410 Ha.

Table 1 Details of microwatersheds

Sl. No.	Name of Micro Watershed	Code no.	River basin	Effective Area (ha)
1	Kanhiradukkam	40C37a &36g	Chandragiri	404
2	Iriya	39C 8d		604
3	Kumbala	39C 8e		264
4	Modagrame	38N3d, f & g	Nileswaram	667
5	Lalur	38N 3e		517
6	Kuyyangad	40C 36a & b	Chandragiri	677
7	Chenthalam	40C 36f		410
8	Ayarot	40C 34a		302
9	Kottodi	40C 33c		417
10	Painikkara	40C 33a		598
11	Vannathikkanam	40C 32e	550	
Total				5410

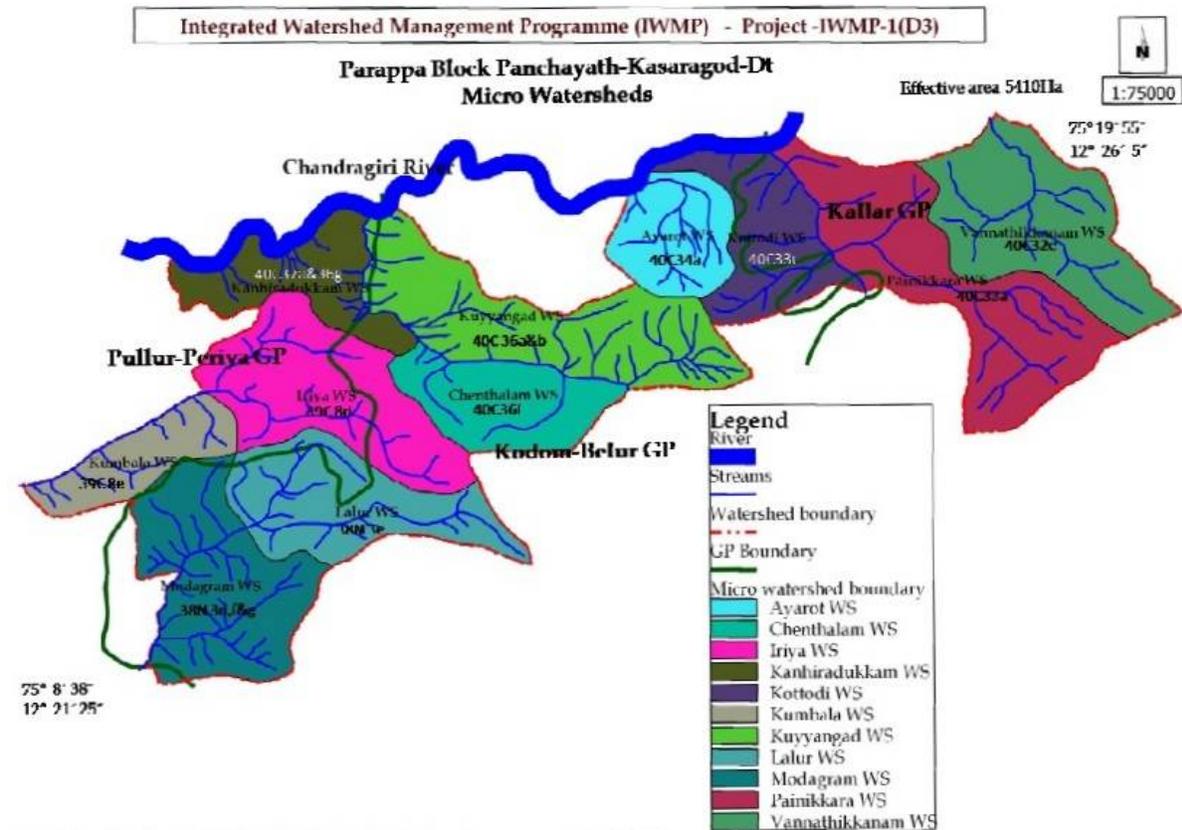


Figure 1 Watershed map of the project area

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

1. Protection of Pallam at Iriya

Pallam is a naturally occurring spring where the ground water table meets the ground surface. This work lies in the Iriya watershed of Kodom-Belur grampanchayath. It was one of the Entry Point Activities (EPA) of the project. Water was available in the Pallam for the use of inhabitants nearby.

2. Side protection work at Chenthalam

This work is located in the Chenthalam watershed of Kodom-Belur grampanchayath. More than 10 families benefit from this work as their plots are adjacent to the stream bank and risk of erosion was high.

3. Side protection work at Kuyyangad

This work is situated in the Kuyyangad watershed of Kodom-Belur grampanchayath. More than 100m of stream bank was lined in order to reduce erosion.

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 I
Name of Block	Parappa
Sanctioned Area (ha)	5692
Sanctioned Cost (Rs in lakh)	811.5
Actual Expenditure (Rs in Lakh)	262.94 (March 2018) 32.4%
Name of Villages included in the project	Pullur, Periya, Kodombelur, 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	1.73	1.82	Increase of depth of Water Column (January)
2	Average depth of water table in tube wells	m	16	19	Depth of water column – 3 m increase
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated	nos.	56	58	Only 2 structures
4	Increase in Irrigation potential	ha	2307	2427	Increase of 120 ha
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha	-	--	20.55 ha brought under afforestation
6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha	2307 182 38	2400 202.55 30	Increase of 93 ha 20.55 ha under afforestation Area under wasteland reduced by 8 ha

7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha	2307	2315	Crop under paddy increase of 8 ha
8	Cropping intensity	%	60	65	5% increase
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	24	26	Increase of 2q/ha for paddy
10	Area of horticulture crop	ha	338	370	Increase of 32 ha
11	Employment in agriculture related activities among beneficiaries	Man days			19868 mandays created from project
12	Employment in non- agricultural sectors	Man days			
13	Fodder production	qt	900	1200	300 qt increase
14	Fuelwood production	qt	-	-	
15	Number of milch cattle	nos	1007	1112	105 increase in cattle population
16	Milk production	Kl/yr	1200	1350	150,000 lit increase
17	Duration of flow of water in streams (upto November/December/January/February.... May)		January	March	Prolonged flow of two months
18	Improvement of drinking water facility		February	April	For two months
19	No. of persons engaged in ancillary activities like fishery, poultry,rural craftsmanship	nos	110	140	Increase of 30
20	Number of children enrolled in schools in the project area	nos	-	-	All children are enrolled
21	Reduction in migration from rural to urban area in the project area	nos	-	-	19868mandays generated in the project
22	Annual mean household income	Rs	30000	36000	An increase of Rs. 6000/-
23	Any other measureable indicator of impact assessment i)No. of farmers benefitted from the project 963 ii) No. of SHGs : 26 iii) Production system in 47.96 ha iv) Field bunds and staggered trenches in 102 ha				

Some of the works visited in the project area



Protection work of Pallam in Iriya watershed Side protection work of a stream in Chenthalam watershed



Side protection work of a stream in Kuyyangad watershed