

WAYANAD DISTRICT





Endline Evaluation of PMKSY-WDC Watershed Projects

REPORT: KALPETTA BLOCK - IWMP I G I (Wayanad District)

The project IWMP I G I is located in Kalpetta Block Panchayath containing ten micro watersheds covering mainly the areas of 4 Grama Panchayaths and one Municipality. Kalpetta Block Panchayath is acting as the PIA for the project from 2010 and the total area under this project is 4403 ha. Most of the people of the IWMP I G I area are migrants from different parts of Kerala, especially from Central Travancore. This project is the most relevant and effective response to the crisis experienced by the farming community in the ten micro watersheds namely, Ammara, Pozhuthana V, Akkarappady, Parakunnu, Achoor, Parathodu, Pozhuthana VI, Pozhuthana VII, Nedunilam and Kokuzhi.

General Description of the Project Area

Project name	:	IWMP I (Kalpetta G I)
State	:	Kerala
District	:	Wayanad
Block	:	Kalpetta
Taluk	:	Vythiri
Grama Panchayats Covered	:	Vythiri, Pozhuthana, Thariyode, Vengapalli, Kalpetta Municipality
Wards Included	:	Vythiri – 1, 2 Pozhuthana - 1,2,3,4,5,6,9,10,11,12,13 Thariyode - 9, 10, 11 Vengapalli - 2,6,7,8,9,12 Kalpetta Municipality – 1, 2
Total Treatable Area	:	4403 Ha
Latitude	:	11 ⁰ 33' 29.6" N - 11 ⁰ 39' 10.0" N
Longitude	:	75 ⁰ 58' 33.3" E - 76 ⁰ 04' 55.7" E
Soil	:	Clay loam to Forest soil
Total Households	:	4340
Total Population	:	17358
Major Catchment	:	Kabani river basin
Highest Elevation	:	1606 m
Lowest Elevation Point	:	740 m
Number of Micro Watersheds	:	10

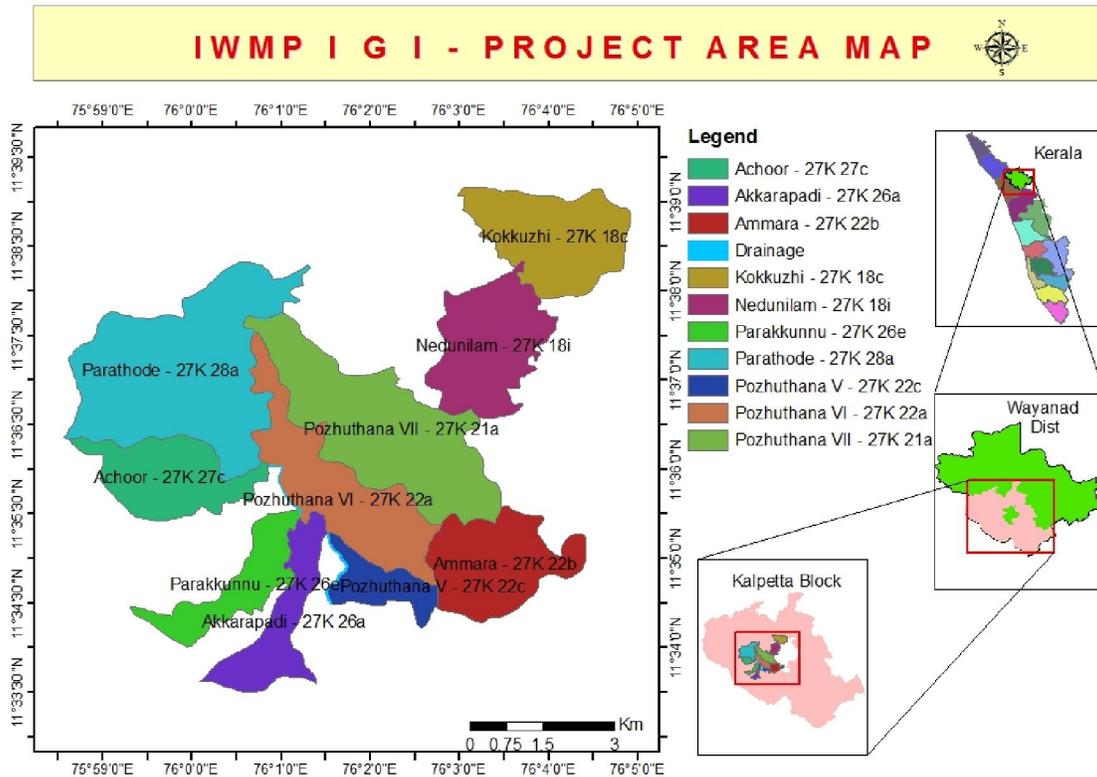


Figure 1 Location map of the project

Table : Watershed details of IWMP I (Kalpetta G I)

SI No	Name of Watershed	Code	Total area (ha)	Treatable area (ha)
1	Ammara	27K22b	520	412
2	Pozhuthan V	27K22c	164	125
3	Akkarapady	27K26a	312	210
4	Parakunnu	27K26e	304	45
5	Achoor	27K27c	473	335
6	Parathodu	27K28a	1271	1055
7	Pozhuthana VI	27K22a	597	352
8	Pozhuthana VII	27K21a	934	934
9	Nedunilam	27K18i	502	502
10	Kokuzhi	27K18c	433	433
Total			5510	4403

The evaluation team from CWRDM visited the project IWMP I G I in Kalpetta Block on 05/01/2019. The works executed in the watershed include earthen bunds, agro-horti plants, farm



ponds construction and renovation, stream embankment/ drainage line treatments, check dams, biogas plant etc. After discussion with the BDO and other officers, field visit was done. The works which the team visited were:

1. Side protection of stream

The work is located in the Ammara watershed of Vythiri gram panchayat. The side is lined with rubble masonry 55m long and 1m high. Only one side of the stream is lined. The beneficiary has further increased the height of the embankment at their own cost.

2. Check dam and side protection

The work is situated in the Parathodu watershed of Pozhuthana gram panchayat. The work was completed at a cost of ₹ 3,00,000. There is heavy sedimentation in the upstream side of the structure.

3. Pond

The work is situated in the Pozhuthana 5 watershed of Pozhuthana Gram panchayat. The pond is used for irrigation of paddy and vegetables like cauliflower, tomato etc. About 2.5 m depth of water was available and the quality seems to be very good. Around 20 families benefit from this pond.

Summary of the Evaluation of Outcomes of PMSKY- WDC Project

District	Wayanad	Date of visit	05/01/2019
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1. Project Details

Project No	IWMP IGI
Name of Block	Kalpetta
Sanctioned Area (ha)	4403
Sanctioned Cost (Rs in lakh)	660.45
Expenditure upto 31.03.2018 (Rs. in lakh)	205.53 (31.11%)
Name of Villages included in the project	Pozhuthana, Chundale, Vengappalli, Achooranam



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	6.1		Post project data not available. However, an increase of 1m reported in some wells
2	Average depth of water table in tube wells	m	-	-	No data
3	Number of ground water structures (dug wells + tube wells + hand pumps) rejuvenated/ created.	nos.		19	Five ponds. In addition check dams and other structures also.
4	Increase in Irrigation potential	ha	--	101	Additional area brought under irrigation.
5	Area of Wasteland brought under productive use (like agriculture, plantation, fodder, etc)	ha		Approx 15 ha	Agri- horti. plants and fodder cultivation
6	Change in cropping / land use pattern (i) Area under Agriculture Crop (ii) Area under plantation / forest cover (iii) Area Under Wastelands	ha	--	--	324 ha of land brought under productive use. Area under plantation increased and wasteland reduced.
7	Area Under Agriculture Crop (i) Area under Kharif crop (ii) Area under Rabi crop (iii) Area under double crop	ha	--	--	18 ha under SRI method of paddy cultivation
8	Cropping intensity	%	--	--	2% increase
9	Increase in Yield /ha of crops (i) Rabi crop (ii) Kharif crop	qt/ha	--	---	Paddy fields are very less.
10	Area of horticulture crop	ha	--	44	Horticulture crops planted in 44 ha



11	Employment in agriculture related activities among beneficiaries	Man days			
12	Employment in non- agricultural sectors	Man days		2150	
13	Fodder production	qt	250	270	20 qt increase
14	Fuelwood production	qt			No data
15	Number of milch cattle	nos		200	Approx. No. Exact data not available
16	Milk production	Kl/yr		20	Slight increase in milk production
17	Duration of flow of water in streams (upto November/December/January/February....May)		Feb.	March	Duration of flow increased. Soil moisture increased.
18	Improvement of drinking water facility		March	April	Groundwater level raised due to earthen bunds and check dams
19	No. of persons engaged in ancillary activities like fishery, poultry, rural craftsmanship	nos		95	JLG/SHG/UG 95 newly formed
20	Number of children enrolled in schools in the project area	nos	--	--	All are school going
21	Reduction in migration from rural to urban area in the project area	nos			Reduced during project period
22	Annual mean household income	Rs	50,000	54,000	About Rs. 4000 increase
23	<p>Any other measureable indicator of impact assessment</p> <ul style="list-style-type: none"> i) Committee and stakeholders have undergone 46 trainings and 2 exposure visits ii) General increase in soil moisture content and improved greenery and biodiversity changes iii) Soil erosion and sediment load decreased after project implementation. iv) Set up 10 biogas units v) SHGs created/assisted : 95 vi) 159 ha area was brought under soil and water conservation measures. vii) Total No. of farmers benefitted : 540 				



Side protection work in Ammara watershed



Newly constructed pond in Pozhuthana 5 watershed



Check dam constructed in Parathodu watershed