

Integrated Watershed Management Programme

Preliminary Project Report (PPR)

Thrissur

**Department of Land Resources,
Ministry of Rural Development,
Government of India**

I. Institutional Structures.

I. A. State Level Nodal Agencies

I. B. District Level Watershed Units

I. Selection of Watershed Projects

II. Profile of the each selected watershed project

III. Agro-climatic condition of project area.

IV. Demography & land distribution

V. Livelihoods

VI. Expected project out comes

VII. Mandatory certificates

VIII. Status of on-going projects

IX. Abstract of projects proposed for sanction

I. Institutional Structures

I. A. State Level Nodal Agencies (SLNAs):

Table-PPR 1: Details of SLNA

1	2	3	4	5	6
No	State	Type of SLNA [#]	Date of Notification	Date of MoU with DoLR	Total no. of members of SLNA
1	Kerala	Mission	14-Jun-10		Twenty Five

Table-PPR 1: Details of SLNA (Contd..)

7		8					
Chairperson and Co Chairperson		CEO					
Name	Designation [#]	Name	Designation	Date of Appointment	Nature of appointment ^{\$}	Tenure	Contact Ph. No./ Fax/ E-mail
L C Goyal	Agriculture Production commissioner		Additional Director of Agriculture (SC Unit)	14-Jun-10			
S M Vijayanand	Principal Secretary, LSGD						

Table-PPR 2: Details of functionaries in the SLNAs*

1	2	3	4	5	6	7	8		9	
No	Total no. of persons working in the SLNA for IWMP	Names & Designation	Qualification	Experience	Work allocation	Monthly remuneration (Rs.)	Total budget of SLNA (Rs.)		Funding expected from DoLR (Rs.)	
							R	NR	R	NR
1										

Table-PPR 3: Details of State Level Data Cell (SLDC) functionalities*

1	2	3	4	5	6	7	8		9	
No	Total no. of persons working in the SLDC for IWMP	Names & Designation	Qualification	Experience	Work allocation	Monthly remuneration (Rs.)	Total budget of SLDC (Rs.)		Funding expected from DoLR (Rs.)	
							R	NR	R	NR
1	N i n e	Technical expert, (Agriculture/ Agriculture Engineering)	PG/Ph.D in the related Field	10 years		50000				
2		Technical expert, (IT/Livelihood,micro enterprises /livelihood)	B Tech. Computer Science / MCA	10 years		50000				
3		Administrative Officer	PG in Administration / Management	10 years		40000				
4		Finance cum Accounts Officer	PG in FM / Accounts / CA	10 years		35000				
5		Accounts assistants - 2 numbers	Graduation in Accounts / Commerce / Economics	5 years		25000				
6		GIS expert	B Tech / M Sc / M Tech in related field	5 years		40000				
7		Data entry operator	Graduate+Certificate in DTP	5 years		15000				
8		Programmer	Diploma/Certificate in related fields	5 years		25000				

I. B. District Level Watershed Units:

Table-PPR 4: Details of functionaries in the DRDA Watershed Cell

1	2	3	4	5	6
No	Name of the District	Name of the executing Agency	Status of Chairman	Date of signing of MoU with SLNA	Total no. of persons working for Watershed programme
1	Thiruvananthapuram	Respective District Panchayaths	President, respective District panchayats		Three each in all Districts, 52 persons in the State
2	Kollam				
3	Pathanamthitta				
4	Alapuzha				
5	Kottayam				
6	Idukki				
7	Eranakulam				
8	Thrissur				
9	Palakkad				
10	Malappuram				
11	Kozhikkode				
12	Wayanadu				
13	Kannur				
14	Kasargode				

Table-PPR 4: Details of functionaries in the DRDA Watershed Cell - cont.

No	Names & Designation	Qualification	Experience	Work allocation	Monthly remuneration (Rs.)	12		13	
						Total budget of Watershed Cell (Rs.)		Funding expected from DoLR (Rs.)	
						R	NR	R	NR
1	Technical expert	Graduation in the related field	5 years		25000				
2	Accountant	Graduation in the related field	3 years		10000				
3	Data entry operator	Diploma / certificate in the related field	3 years		7500				
	52 persons				595000				

II. SELECTION OF WATERSHED PROJECTS

Table-PPR 5 : Status of District-wise area covered under the watershed programme * (MIS Table-M(SP)2)

1	2	3		4				5			
No.	Name of the District	Total micro-watersheds in the District		Micro-watersheds covered so far				Total watersheds covered		Net watersheds to be covered	
				Dept. of Land Resources		Other Ministries/ Depts.					
				Pre-IWMP projects (DPAP +DDP +IWDP)		Any other watershed project					
		No.	Area (ha.)	No.	Area	No.	Area (ha.)	No.	Area h	No.	Area (ha.)
1	Thrissur	310	299215	2	2536	64	69508	66	72044	110	101314
	State	4529	3874535	29	19345	955	1018761	983	1038991	2067	1459817

Table-PPR 6: Prioritized list of projects proposed for sanction during the financial year 2010-11

1	2	3	4	5	6	7	8													
No	District	Name of the project	No. of micro-watersheds proposed to be covered	Proposed project area (ha)	Type of project	Proposed cost (Rs. in lakh)	Weightage under the criteria#													
					(Hilly/ Desert/ Others)		1	2	3	4	5	6	7	8	9	10	11	12	13	Total
1	Thrissur	IWMP1	7	5434	Plains	652.12	33	21	0	70	53	0	100	0	15	0	60	105	0	457
		IWMP2	10	5927	Plains	711.18	50	30	0	100	63	0	150	0	10	0	30	150	0	583
		2	17	11361		1363.30														

Criteria and weightage for selection of watershed

No	Criteria	score	Ranges & scores			
i	Poverty index (% of poor to population)	10	Above 80 % (10)	80 to 50 % (7.5)	50 to 20 % (5)	Below 20 % (2.5)
ii	% of SC/ ST population	10	More than 40 % (10)	20 to 40 % (5)	Less than 20 % (3)	
iii	Actual wages	5	Actual wages are significantly lower than minimum wages (5)	Actual wages are equal to or higher than minimum wages (0)		
iv	% of small and marginal farmers	10	More than 80 % (10)	50 to 80 % (5)	Less than 50 % (3)	
v	Ground water status	5	Over exploited (5)	Critical (3)	Sub critical (2)	Safe (0)
vi	Moisture index/	15	-66.7 & below (15)	-33.3 to -66.6 (10)	0 to -33.2 (0)	
	DPAP/ DDP Block		DDP Block	DPAP Block	Non DPAP/ DDP Block	Above 70 % (Reject)
vii	Area under rain-fed agriculture	15	More than 90 % (15)	80 to 90 % (10)	70 to 80% (5)	Fully covered (0)
viii	Drinking water	10	No source (10)	Problematic village (7.5)	Partially covered (5)	
ix	Degraded land	15	High – above 20 % (15)	Medium – 10 to 20 % (10)	Low-less than10% of TGA(5)	
x	Productivity potential of the land	15	Lands with low production & where productivity can be significantly enhanced with reasonable efforts (15)	Lands with moderate production & where productivity can be enhanced with reasonable efforts (10)	Lands with high production & where productivity can be marginally enhanced with reasonable efforts(5)	
xi	Contiguity to another watershed that has already been developed/ treated	10	Contiguous to previously treated watershed & contiguity within the micro watersheds in the project (10)	Contiguity within the micro watersheds in the project but non contiguous to previously treated watershed (5)	Neither contiguous to previously treated watershed nor contiguity within the micro watersheds in the project (0)	
xii	Cluster approach in the plains (more than one contiguous micro-watersheds in the project)	15	Above 6 micro-watersheds in cluster (15)	4 to 6 micro watersheds in cluster (10)	2 to 4 micro watersheds in cluster (5)	
	Cluster approach in the hills (more than one contiguous micro-watersheds in the project)		Above 5 micro-watersheds in cluster (15)	3 to 5 micro watersheds in cluster (10)	2 to 3 micro watersheds in cluster (5)	

III) PROJECT WISE PROFILE OF THE SELECTED WATERSHED PROJECT

Table –PPR 7: Project at a Glance

1	Name of the State	Kerala		
2	Name & type [#] (Hilly/ Desert/ Others) of the project	IWMP1	IWMP2	Plains
3	Name of the District	Thrissur		
4	Names of the Blocks	Wadakkanchery		
		Irinjalakuda		
		Ollukkara		
		Kodakara		
5	Names of Gram Panchayats	Pudukkad		
		Nenmenikkara		
		Mattathur		
		Parappukara		
		Varantharapally		
		Alagappanagar		
		Puthur		
		Thrikkur		
		Velur		
		Kadangode		
		Varavoor		
		Erumapetty		
		Wadakkanchery		
		Mundathikkode		
Thekkumkara				
Mullurkara				

6	Names & Census Code of Villages covered	Chengallur	'00075600
		Mattathur	00077000
		Kodassery	00077300
		Nandipullam	00075500
		Parappukara	00074900
		Mupliyam	00075400
		Amballur	'00075200
		Varandarapally	00075300
		Kallur	'00075100
		Puthur	00070200
		Kadangode	00059500
		Kariyannur	00062200
		Thichur	00059600
		Nelluvaya	00062100
		Kottappuram	'00062000
		Pilakkad	00060100
		Chittanada	00061900
		Wadakkanchery	00064700
		Puthuruthy	00064600
Varavoor	00060200		
7	Names & Codes of the micro-watersheds	Arcode padam	17K28a
		Mupliyam	17K28af
		Thessery-Kuzhikkani thodu	17K28aj
		Nellaippadam	17K28ak
		Allenchery padam - k Allan thodu	17K28b
		Parakkadavu	17K28c
		Kallayithodu	17K28d
		Kunnathery mathra thodu	18K14a
		Vellapokkapadamthodu	18K14b
		Pathiyaram thodu	18K14c

		Mangattupadam thodu	18K15a
		Chittendappadam thodu	18K16a
		Kanjirakode Kumbalamkode Padam	18K25a
		Puthuruthy Thodu	18K26a
		Chanchira thodu	20B44d
		Pinnamparathodu 1	20B44e
		Pinnamparathodu 2	20B44f
8	Four major reasons for selection of watershed	Dilapidated traditional irrigation systems	
		Low productivity of land	
		Strong presence of SC/ST, BPL families and marginal farmers	
		Poor adaptation to climate change	
9	Area of the Project (ha.)	11639	
10	Area proposed to be treated (ha.)	11361	
11	Project Cost (Rs. in Lakhs)	1363.30	
12	Name and Address of proposed PIA	Wadakkanchery	Block Panchayats
		Kodakara	
13	Any other (please specify)		

Table-PPR 8: Details of previously identified DPAP/ DDP areas proposed under IWMP (ha) during the financial year*

There are no DPAP/DDP blocks identified in Kerala

Table-PPR 9: Land Use pattern of the project*

(Area in ha)

1	2	3	4	5	6	7	8	9									
								No	Name of watersheds	Names of villages	Geographical Area of the watershed	Forest Area	Land under agricultural use	Rain fed area	Permanent pastures	Wasteland	
																Cultivable	Non-cultivable
1	Arcode padam	Chengallur	988	0	812	985	0	15	161								
2	Mupliyam	Mattathur	392	143	244	392	0	0	6								
3	Thessery-Kuzhikkani	Kodassery, Nandipullam	256	0	255	256	0	0	1								
4	Nellaippadam	Parappukara, Chengallur	230	0	204	213	0	19	6								
5	Allenchery padam -	Mupliyam, Amballur, Chengallur	2404	27	2327	2160	0	18	32								
6	Parakkadavu	Varandarapally, Mupliyam	518	280	236	518	0	0	2								
7	Kallayithodu	Varandarapally, Kallur, Puthur	924	267	643	911	0	0	14								
8	Kunnathery mathra	Kadangode, Kariyannur	584	131	398	584	0	3	52								
9	Vellapokkapadamthodu	Thichur	537	139	371	537	0	4	24								
10	Pathiyaram thodu	Nelluvaya	368	0	353	368	0	5	10								
11	Mangattupadam thodu	Kottappuram, Pilakkad	712	117	577	712	0	1	17								
12	Chittendappadam thodu	Kanjirakode, Pilakkad,	738	136	594	738	0	0	8								
13	Kanjirakode	Wadakkanchery, Chittanada	935	0	877	935	0	26	32								
14	Puthuruthy Thodu	Wadakkanchery, Puthuruthy,	1154	73	1041	1154	0	10	30								
15	Chanchira thodu	Varavoor	282	77	186	282	0	10	9								
16	Pinnamparathodu 1	Pilakkad, Thichur	584	119	417	584	0	18	31								
17	Pinnamparathodu 2	Thichur	33	0	32	33	0	0	0								
		Total	11639	1509	11639	1509	11639	1509	11639								

Source of data:

Kerala state land use board and Panchayat resource map

IV. AGRO-CLIMATIC CONDITION

Details about soil types, land uses etc. are given as additional tables

Table – PPR 10: Details of Agro-climatic condition*																				
1	2						3				5						7		8	
No	Name of the watershed						Name of the Agro-climatic zone covers project area				Names of the villages						Topography#		Average rainfall in mm	
1	Arcode padam						Central zone				Chengallur						Flat		3093 mm	
2	Mupliyam						Central zone				Mattathur						Moderate			
3	Thessery-Kuzhikkani thodu						Central zone				Kodassery, Nandipullam						Flat			
4	Nellaipadam						Central zone				Parappukara, Chengallur						Flat			
5	Allenchery padam - k Allan thodu						Central zone				Mupliyam, Amballur, Chengallur						Moderate			
6	Parakkadavu						Central zone				Varandarapally, Mupliyam						Moderate			
7	Kallayithodu						Central zone				Varandarapally, Kallur, Puthur						Undulating			
8	Kunnathery mathra thodu						Central zone				Kadangode, Kariyannur						Moderate			
9	Vellapokkapadamthodu						Central zone				Thichur						Undulating			
10	Pathiyaram thodu						Central zone				Nelluvaya						Moderate			
11	Mangattupadam thodu						Central zone				Kottappuram, Pilakkad						Undulating			
12	Chittendappadam thodu						Central zone				Kanjirakode, Pilakkad, Chittanada						Moderate			
13	Kanjirakode Kumbalamkode Padam						Central zone				Wadakkanchery, Chittanada						Moderate			
14	Puthuruthy Thodu						Central zone				Wadakkanchery, Puthuruthy, Kottappuram						Moderate			
15	Chanchira thodu						Central zone				Varavoor						Undulating			
16	Pinnamparathodu 1						Central zone				Pilakkad, Thichur						Undulating			
17	Pinnamparathodu 2						Central zone				Thichur						Undulating			

Table – PPR 10 a: Details of soil types and major crops

1	2	6					9				
No	Name of the watershed	Major soil types					Major crops				
		Brown hydromorphic soil	Lateritic soil	Riverine alluvium	0	Total	Coconut	Paddy	Mixed	Rubber	Total
1	Arcode padam	0	0	988	0	988	34	118	608	53	812
2	Mupliyam	0	155	236	0	391	0	10	177	57	244
3	Thessery-Kuzhikkani thodu	0	0	257	0	257	0	7	248	0	255
4	Nellaippadam	0	0	230	0	230	16	6	183	0	204
5	Allenchery padam - kallan thodu	0	771	1632	0	2403	69	357	1477	424	2327
6	Parakkadavu	0	518	0	0	518	11	1	150	74	236
7	Kallayithodu	300	624	0	0	924	25	28	74	517	643
8	Kunnathery mathra thodu	362	222	0	0	584	24	109	232	33	398
9	Vellapokkapadamthodu	281	256	0	0	537	22	101	153	94	371
10	Pathiyaram thodu	368	0	0	0	368	11	90	220	31	353
11	Mangattupadam thodu	510	202	0	0	712	16	141	380	40	577
12	Chittendappadam thodu	0	738	0	0	738	40	126	412	17	594
13	Kanjirakode Kumbalamkode Padam	601	334	0	0	935	39	136	464	238	877
14	Puthuruthy Thodu	813	341	0	0	1154	63	235	601	142	1041
15	Chanchira thodu	0	282	0	0	282	5	33	107	42	186
16	Pinnamparathodu 1	54	530	0	0	584	20	99	145	153	417
17	Pinnamparathodu 2	0	33	0	0	33	4	0	7	21	32

Table-PPR 11: Details of flood and drought in the project area*

1	2	3	4		5
No	Particulars	Villages	Periodicity		Not affected
			Annual	Any other - once in 4 years	
1	Flood	No. of villages	0	11	9
		Name(s) of villages	0	Puthur, Mattathur, Kodassery, Parappukara, Varantharapilly, Kadangode, Kariyannur, Thichur, Nelluvaya, Wadakanchery, Varavur	
2	Drought	No. of villages	0	0	20
		Name(s) of villages	0	0	
Total			0	11	9

Table-PPR 12 : Details of soil erosion in the project area

1	2	3	4	5
Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)	Average soil loss (Tons/ ha/ year)
Water erosion				
a	Severe	4150	NA	NA
b	Moderate	5242	NA	NA
c	Slight	2247	NA	NA
Sub-Total		11639	NA	NA
Wind erosion		0	NA	NA
Total		11639	NA	NA

V. DEMOGRAPHY AND LAND DISTRIBUTION

Details about population is given as table

Key features of population in Table

No	Watershed Name	Area (In Ha)	Total Families	Population			BPL Families	Land holding/Family (In Ha)
				Total	SC	ST		
				11639	21972	101331		
1	Arcode padam	988	3265	14716	2073	2	777	0.30
2	Mupliyam	392	297	1326	94	11	92	1.32
3	Thessery-Kuzhikkani thodu	256	493	2216	354	3	113	0.52
4	Nellaippadam	230	731	3311	554	0	145	0.32
5	Allenchery padam - kallan thodu	2404	4054	18115	2039	50	1125	0.59
6	Parakkadavu	518	402	1795	128	14	124	1.29
7	Kallayithodu	924	1191	5417	479	22	272	0.78
8	Kunnathery mathra thodu	584	993	4728	704	1	409	0.59
9	Vellapokkapadamthodu	537	789	3811	717	0	355	0.68
10	Pathiyaram thodu	368	758	3550	657	0	357	0.49
11	Mangattupadam thodu	712	1420	6676	1248	0	668	0.50
12	Chittendappadam thodu	738	1442	6801	1282	0	678	0.51
13	Kanjirakode Kumbalamkode Padam	935	2361	11090	1630	2	813	0.40
14	Puthuruthy Thodu	1154	2591	11989	1460	7	564	0.45
15	Chanchira thodu	282	393	1910	359	0	176	0.72
16	Pinnamparathodu 1	584	751	3676	690	0	330	0.78
17	Pinnamparathodu 2	33	42	205	39	0	18	0.78

VI. LIVELIHOODS

The existing scenario and the opportunities are described in the tables. One more word about capacity building activities. There is tremendous scope of these activities can be organized in the field level in a participatory manner. Of extreme importance is adaptation to climate change. How an effective strategy can be developed is the very question of survival. Then comes the hands on exposure to modern agriculture practices, technologies and machines. Trainings should be imparted in such a manner that new social institutions can be created at grass root level to sustain these initiatives.

Table-PPR 13 Summary of livelihoods

1	2	3	4	5	6
No	Names of the watersheds	Existing livelihood activities	Possible livelihood interventions under the project	Current status of migration (No. of people)	Main reasons for migration
1	Arcode padam	Employment in construction sector, wage labour in semi skilled and unskilled activities, trading etc. are the major livelihood of the poor people now. Middle and upper class are employed in service sector, government and large private enterprises. Agriculture is not the soul income anymore. Agricultural labour is part of the employment of the poor. For the poor families another major chunk is the income from MNREGS . Lower income people also attempt animal husbandry with mixed results. More often the cash income from such activities is not sufficient due to a number of	Animal husbandry with strong forward and backward linkages and supporting infrastructure and initiatives at the homestead is the main possibility. High yield cows which can be milked in tandem, scientifically constructed cowshed and biogas tank, grass cultivation, training to the concerned, ensuring the availability of milking machines, soft finance, hand holding for the first few years, providing functional insurance etc. are essential for the success of the programme. Food processing at household level using locally available banana, jack fruit, mango etc. is another possibility. Rearing of backyard chicken, quail,	147	Lack of job opportunities in the agriculture sector due to low productivity and poor income from land. This is inducing the farmer to fallow the land and search for better alternatives. As more and more people move to the urban areas seeking employment, whatever rural economic activities remain gets weakened and faces a gradual demise. Only the people with ensured income or people who are unable to move remain in the villages.
2	Mupliyam			13	
3	Thessery-Kuzhikkani thodu			22	
4	Nellaippadam			33	
5	Allenchery padam - kallan			181	
6	Parakkadavu			18	
7	Kallayithodu			54	
8	Kunnathery mathra thodu			47	
9	Vellapokkapadamthodu			38	
10	Pathiyaram thodu			35	
11	Mangattupadam thodu			67	
12	Chittendappadam thodu			68	
13	Kanjirakode Kumbalamkode			111	
14	Puthuruthy Thodu			120	
15	Chanchira thodu			19	
16	Pinnamparathodu 1			37	
17	Pinnamparathodu 2			2	
	17			51	

VII. EXPECTED PROJECT OUTCOMES

VII. (i). Expected employment related outcomes:

Table-PPR 14: Employment generation

1 No.	2 Names of the watersheds	3 Wage employment										4 Self employment				
		No. of man-days in '00 s					No. of beneficiaries					No. of beneficiaries				
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1	Arcode padam	207	0	2860	1840	4907	207	0	2860	1840	4907	124	0	715	1472	2311
2	Mupliyam	9	1	261	166	437	9	1	261	166	437	6	1	65	133	204
3	Thessery-Kuzhikkani	35	0	429	277	742	35	0	429	277	742	21	0	107	222	350
4	Nellaippadam	55	0	640	414	1109	55	0	640	414	1109	33	0	160	331	524
5	Allenchery padam -	204	5	3540	2264	6013	204	5	3540	2264	6013	122	3	885	1812	2822
6	Parakkadavu	13	1	353	224	592	13	1	353	224	592	8	1	88	180	276
7	Kallayithodu	48	2	1063	677	1791	48	2	1063	677	1791	29	1	266	542	838
8	Kunnathery mathra	70	0	917	591	1579	70	0	917	591	1579	42	0	229	473	744
9	Vellapokkapadamthodu	72	0	733	476	1282	72	0	733	476	1282	43	0	183	381	607
10	Pathiyaram thodu	66	0	684	444	1193	66	0	684	444	1193	39	0	171	355	565
11	Mangattupadam thodu	125	0	1285	834	2244	125	0	1285	834	2244	75	0	321	668	1064
12	Chittendappadam thodu	128	0	1309	850	2287	128	0	1309	850	2287	77	0	327	680	1084
13	Kanjirakode	163	0	2153	1386	3702	163	0	2153	1386	3702	98	0	538	1109	1745
14	Puthuruthy Thodu	146	1	2339	1499	3984	146	1	2339	1499	3984	88	0	585	1199	1872
15	Chanchira thodu	36	0	368	239	642	36	0	368	239	642	22	0	92	191	304
16	Pinnamparathodu 1	69	0	708	459	1236	69	0	708	459	1236	41	0	177	368	586
17	Pinnamparathodu 2	4	0	40	26	69	4	0	40	26	69	2	0	10	21	33
	17	1451	11	19681	12666	33810	1451	11	19681	12666	33810	870	7	4920	10133	15931

Table-PPR 15: Details of migration from Project area

1	2	3	4	5	6
No	Names of the watersheds	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Expected reduction in no. of persons migrating
1	Arcode padam	147	14716	Lack of job opportunities in the agriculture and allied sectors. Low productivity and poor income from land. Rural economic activities getting weakened. Weak infrastructure and support services for agriculture. Better livelihoods, Changing life styles.	118
2	Mupliyam	13	782		12
3	Thessery-Kuzhikkani thodu	22	2726		13
4	Nellaippadam	33	795		25
5	Allenchery padam - kallan	181	18115		154
6	Parakkadavu	18	1059		14
7	Kallayithodu	54	6663		49
8	Kunnathery mathra thodu	47	1135		28
9	Vellapokkapadamthodu	38	3811		29
10	Pathiyaram thodu	35	2094		30
11	Mangattupadam thodu	67	8211		53
12	Chittendappadam thodu	68	1632		61
13	Kanjirakode Kumbalamkode	111	11090		67
14	Puthuruthy Thodu	120	7073		90
15	Chanchira thodu	19	2349		16
16	Pinnamparathodu 1	37	882		29
17	Pinnamparathodu 2	2	121		2
	17	51	4163		791

VII. (ii). Water related outcomes:

Table-PPR 16: Details of average ground water table depth in the project areas
(in meters)

1	2	3	4	5	6
No	Names of the watersheds	Sources	Pre-Project level	Expected post-project level	Remarks
1	Arcode padam	Open wells	8	6	This increase will substantially improve the drinking water availability, reduce the drudgery for fetching water and increase the irrigated areas. But substantial steps to improve water and irrigation efficiency through the application of modern and traditional technologies is essential. There must be simultaneous initiatives to reduce the contamination of surface water and ground water from the residues of pesticides and fertilizers, household waste and garbage, poor sanitation facilities, waste from fish/meat stalls, vegetable
		Bore wells	90	72	
		Others - Ponds	6	5	
2	Mupliyam	Open wells	9	6	
		Bore wells	105	84	
		Others - Ponds	7	6	
3	Thessery-Kuzhikkani thodu	Open wells	7	5	
		Bore wells	95	76	
		Others - Ponds	5	5	
4	Nellaipadam	Open wells	6	4	
		Bore wells	85	68	
		Others - Ponds	4	4	
5	Allenchery padam - kallan thodu	Open wells	7	5	
		Bore wells	100	80	
		Others - Ponds	5	5	
6	Parakkadavu	Open wells	8	6	
		Bore wells	115	92	
		Others - Ponds	6	5	
7	Kallayithodu	Open wells	9	6	
		Bore wells	130	104	
		Others - Ponds	7	6	
8	Kunnathery mathra thodu	Open wells	7	5	
		Bore wells	120	96	
		Others - Ponds	5	5	
9	Vellapokkapadamthodu	Open wells	5	4	
		Bore wells	110	88	

		Others - Ponds	3	3	markets and small teashops in the watershed area. Convergence efforts should be launched with other Govt departments and NGOs to achieve this. New agricultural practices like SRI cultivation, drip irrigation and precision farming should be promoted in tandem with high efficiency pumps, piped irrigation water, bio gas tanks etc.
10	Pathiyaram thodu	Open wells	6	4	
		Bore wells	125	100	
		Others - Ponds	4	4	
11	Mangattupadam thodu	Open wells	7	5	
		Bore wells	140	112	
		Others - Ponds	5	5	
12	Chittendappadam thodu	Open wells	6	4	
		Bore wells	130	104	
		Others - Ponds	4	4	
13	Kanjirakode Kumbalamkode Padam	Open wells	7	5	
		Bore wells	145	116	
		Others - Ponds	5	5	
14	Puthuruthy Thodu	Open wells	8	6	
		Bore wells	135	108	
		Others - Ponds	9	8	
15	Chanchira thodu	Open wells	6	4	
		Bore wells	125	100	
		Others - Ponds	4	4	
16	Pinnamparathodu 1	Open wells	7	5	
		Bore wells	140	112	
		Others - Ponds	5	5	
17	Pinnamparathodu 2	Open wells	8	6	
		Bore wells	155	124	
		Others - Ponds	6	5	

Source of data:

Panchayat development report and resource map report

Table-PPR 17: Status of Drinking water*

1	2	3		4		5
No	Names of the watersheds	Availability of drinking water (no. of months in a year)		Quality of drinking water		Comments
		Pre project	Expected post project	Pre project	Expected post project	
1	Arcode padam	9	10	Turbulence, hardness, high iron and salinity are the major issues observed. High presence of e coli is observed in almost all open wells and ponds. They are also present in number of open wells as	Reduced concentration of dissolved salts, less incidence of turbulence, a check regarding the saline intrusion, better bacteriological quality etc. are the major expected post project benefits	The issues listed are culled from varies studies conducted in the area by other agencies. There is also a variation in quality issues during different seasons. More primary data generation before the launching of the project is recommended to create a bench mark.
2	Mupliyam	8	10			
3	Thessery-Kuzhikkani thodu	11	12			
4	Nellaippadam	10	11			
5	Allenchery padam - kallan	7	9			
6	Parakkadavu	11	12			
7	Kallayithodu	9	10			
8	Kunnathery mathra thodu	9	11			
9	Vellapokkapadamthodu	8	9			
10	Pathiyaram thodu	10	11			
11	Mangattupadam thodu	11	12			
12	Chittendappadam thodu	12	10			
13	Kanjirakode Kumbalamkode	12	10			
14	Puthuruthy Thodu	13	11			
15	Chanchira thodu	7	8			
16	Pinnamparathodu 1	11	9			
17	Pinnamparathodu 2	9	10			
	17	10	10			

VII. (iii). Crop related outcomes:

Table-PPR 18- Major crops grown and their productivity in the project area

1	2	3		4	
No	Name of the Crop	Current status		Expected post project status	
		Area (ha)	Productivity (kg/ ha)	Area (ha)	Productivity (kg/ ha)
	Kharif Paddy	1259	1778	1385	2045
	Rabi Paddy	1454	2219	2036	3661
	Zaid Paddy	167	3024	217	3402

* From column no. 2, total no. of crops; from columns no. 3 & 4, total cropped area, average productivity, for the project may be given at the end of the Table.

VIII. MANDATORY CERTIFICATION

“It is certified that the State Government of Kerala will abide by the following mandatory conditions laid down by DoLR”

1	The area of the proposed projects are not covered under assured irrigation
2	The area of the proposed project is not covered or overlapping with any other watershed projects sanctioned by the central govt./ state govt./ autonomous bodies & others
3	The State must sign all the mandatory MoUs before implementing the project
4	The timeframes and milestones of the projects will be followed
5	The Budget requested for must follow the criteria laid down in the Common Guidelines, 2008
6	The State must release matching State Share within 15 days from release of each installment of central funds
7	Purchase of vehicles and other equipments are not permitted and nor is construction of buildings allowed. Only purchase of computers and related software is permitted
8	Savings, if any, in each component of the project cost can be utilized only for activities in the Watershed works

9	The DWDU will have one Member exclusively responsible for monitoring
10	All works will be evaluated after each phase of completion. Fund release will depend on favourable reports received from evaluators
11	Evaluators must include only institutions and agencies and not individuals
12	The State and DRDA cell will furnish monitoring reports and periodical reports as desired by DoLR
13	Composition of the WDT must be clearly spelt out and the team Members must be fully in place at the time of signing of the MoU of contract between the PIA and DRDA Cell
14	That DRDA shall release the funds to the PIAs and the watershed committees within 15 days of receipt of the funds
15	The Watershed Committee must be a registered society under the Societies Registration Act, 1860
16	At least one of the WDT Members must be a woman
17	The Gram Sabhas of the proposed project areas have passed resolutions for people's contribution towards WDF
18	Resource-use agreements on the principles of equity and sustainability must be worked out among the User Groups prior to the concerned work being undertaken
19	The DPR must give detailed justification for the proposed project duration
20	No works on private lands will be repaired/ maintained from the WDF
21	The PIA will start project work within three months of the receipt of first installment by DWDU/agency or else it can come under the purview of foreclosure
22	The State will not undertake unnecessary foreclosure of the projects. In the event of foreclosure, the State will refund the amount and furnish all necessary documents as desired by DoLR. The State shall also take administrative and legal action against any defalcation, misappropriation, mis-utilization, deliberate negligence and laxity which has caused foreclosure of the project.

Date:

Signature of officer authorized by State Govt.*

NAME OF OFFICER (IN CAPITAL LETTERS)

DESIGNATION

IX. STATUS OF ON-GOING PROJECTS (DPAP/ DDP/ IWDP)

Table- PPR 19: Details of pending UCs: Statewise* Rs in Lakhs

1	2	3	4	5	6	7	8		9		10	11	
No	District	Project	Instalment no.	Financial year of release of fund	Amount released	Amount utilized	Submission of UC		Date of submission of UC		Reasons for not submitting/ delayed submission of UC	Pending UCs	
							Due date	Amount	Date	Amount		Period	Amount
8	Thrissur												

Table- PPR 20: Details of Unspent balance as on _____: District wise*

1	2	3	4	5		6
No	District	Name of the Project	Total cost (Rs. in lakh)	Total funds released		Unspent balance
				(Rs. in lakh)		
				DoLR	State	(Rs. in lakhs)
8	Thrissur					
	14		0	0	0	0

X. ABSTRACT OF PROJECTS PROPOSED FOR SANCTION DURING 2010-11

1	Number of districts to be covered under the present proposal	Thirteen	
2	No. of Watersheds projects proposed to be taken up under IWMP	Hilly/Desert	Others
3	Total area to be covered under proposed projects (000' ha)		
	(a) Hilly & Desert areas [#]	0.00	
	(b) Others		11.36
	Total	<u>0.00</u>	<u>11.36</u>
4	Total cost of the proposed Watershed projects (Rs. in lakhs)		
	(a) Hilly & Desert areas [#]	0.00	
	(c) Others		1363.30
	Total	<u>0.00</u>	<u>1363.30</u>
5	First installment required from central funds for the proposed watershed projects	<u>0.00</u>	<u>245.39</u>

Project Abstract

1	Title of Project	Integrated Watershed Management Programme in Thrissur	
2	No. of watersheds proposed	<u>17</u>	
3	Area proposed	<u>11361</u>	<u>hectares</u>
4	Project Cost	<u>1363.30</u>	<u>in lakhs</u>
5	a	<u>1226.972444</u>	<u>in lakhs</u>
	b	<u>136.33</u>	<u>in lakhs</u>
6	Designation , address, e-mail and phone number of the officer in ZP/DRDA responsible for this project	Project Director, Poverty Alleviation Unit Thrissur District Panchayat	
		Phone	
		E-mail	

Certificate

Certified that the watershed proposed to be treated in this project does not overlap with any other scheme and there is no duplication of Central/external assistance.

**President
District Panchayat
Thrissur**

**Project Director
Poverty Alleviation Unit
District Panchayat
Thrissur**