Integrated Watershed Management Programme

Preliminary Project Report (PPR)

Malappuram

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

I. Institutional Structures.

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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..)

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

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

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

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

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

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				
2	Kollam				
3	Pathanamthitta				
4	Alapuzha				
5	Kottayam				
6	Idukki				
7	Eranakulam	Respective District	President, respective		Three each in all Districts, 52 persons in
8	Thrissur	Panchayaths	District panchayats		the State
9	Palakkad				
10	Malappuram				
11	Kozhikkode				
12	Wayanadu				
13	Kannur				
14	Kasargode				

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

	7	8	9	10	11	12		1	3
No	Names & Designation	Qualification	Qualification Experience		Monthly remuneration (Rs.)	Total bu Watershee	•	• •	
					(NS.)	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					5			
					Mic	cro-watersh	eds covered so	far			
		Total micro-watersheds in lame of the District the District		Dept. of Land Resources Pre-IWMP projects (DPAP +DDP +IWDP)		Other Ministries/ Depts. Any other watershed project		Total watersheds covered		Notwatorshod	a to be appered
No.	Name of the District									Net watersheds to be covered	
		No.	Area (ha.)	No.	Area	No.	Area (ha.)	No.	Area h	No.	Area (ha.)
1	Malappuram	474	355448	2	0	104	88113	106	88113	229	164350
	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													
		Name of	No. of micro-	Proposed	Type of project	Proposed			#											
No	District	the	watershed	nroiect	(Hilly/	y/ cost (Rs. ert/ in lakh) 1 2 3 4 5	5	6	7	8	9	10	11	12	13	Total				
1	Malappuram	IWMP1	11	5263	Hilly	789.45	55	33	0	110	2	0	165	75	50	0	100	0	165	755
	Malappuram	IWMP2	8	4203	Hilly	630.45	40	24	0	80	21	0	120	45	50	0	50	0	120	550
		2	19	9466		1419.90														

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 that	an 20 % (3)		
iii	Actual wages	5	Actual wages are significantly lower than minimum wages (5)	Actual wages a	re equal to or higher than mi	nimum 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/	Moisture index/ 15		-33.3 to -66.6 (10)	0 to -	-33.2 (0)		
VI	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)		
іх	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 b 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)	°	viously treated watershed nor o watersheds in the project (0)		
xii	Cluster approach in the plains (more than one contiguous micro- watersheds in the project)	Above 6 micro-watershee		4 to 6 micro watersheds in cluster (10)	2 to 4 micro wate	ersheds 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 wate	ersheds in cluster (5)		

Criteria and weightage for selection of watershed

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	Hilly
3	Name of the District		Malappuram	
		Areekkode		
4	Names of the Blocks	Wandoor		
		Kondotty		
		Keezhparar	nb	
		Urangattiri		
		Edavana		
		Mambad		
5	Namos of Gram Panchavats	Thiruvalli		
5	Names of Gram Panchayats	Areekkode		
		Kavannur		
		Kuzhimanna	а	
		Cheekkode		
		Vazhakkad		
		Kizhuparamba		'00032700
		Urungattiri		00033401
		Perakamanna		00033500
		Edavana		00033600
6	Names & Census Code of Villages covered	Mambad		00036100
	Marines & Census Coue of Milages Covered	Kavanoor		00033800
		Kuzhimanna		'00033900
		Muthuvallur		'00034000
		Cheekode		'00033200

		Areekkode	00033300			
		Kizhuparamba	24C10a			
		Pathanapuram	24C12a			
		Chaliyapuram-Edavazhikadavu	24C15a			
		Kanjirakkundu	24C15b			
		Keyilanthodu	24C15c			
		Eliyakkottupara	24C16a			
		Muthirottithodu	24C17a			
		Nadakkerambu	24C18a			
		Pannippara	24C60a			
7	Names & Codes of the micro-watersheds	Panarkund	24C61b			
		Areacode	24C64a			
		Ugrapuram	24C65a			
		Kadungallur	24C66a			
		Asharithodu	24C66b			
		Vilayil	24C66q			
		Poonkudipadam	24C66r			
		Vavoor thodu	24C67a			
		24C68a				
		Edasserikkadavu	24C9au			
		Dilapidated traditional irrigation systems				
8	Four major reasons for selection of watershed	Low productivity of land				
0	rour major reasons for selection of watershed	Strong presence of SC/ST, BPL families an	d marginal farmers			
		Poor adaptation to climate change				
9	Area of the Project (ha.)	9466				
10	Area proposed to be treated (ha.)	9466				
11	Project Cost (Rs. in Lakhs)	1419.90				
1.		Areekkode				
12	Name and Address of proposed PIA	Block Panchayats Kondotty				

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
			Geographical	Courset.	Land under	Dain fad	Downsonout	W	asteland
No	Name of watersheds	Names of villages	Area of the watershed	Forest Area	agricultural use	Rain fed area	Permanent pastures	Cultivabl e	Non-cultivable
1	Kizhuparamba	Kizhuparamba, Cheekode	539	0	518	539	0	6	16
2	Pathanapuram	Kizhuparamba	265	0	264	265	0	0	1
3	Chaliyapuram-	Urungattiri	585	0	255	585	0	253	77
4	Kanjirakkundu	Perakamanna, Edavana	791	85	269	791	0	434	2
5	Keyilanthodu	Perakamanna	198	0	129	198	0	60	9
6	Eliyakkottupara	Perakamanna	271	0	140	271	0	106	24
7	Muthirottithodu	Edavana	625	0	238	625	0	342	44
8	Nadakkerambu	Mambad	714	114	399	714	0	173	28
9	Pannippara	Perakamanna	518	0	481	518	0	0	37
10	Panarkund	Edavana	501	0	473	501	0	21	7
11	Areacode	Areekode	373	0	348	373	0	0	25
12	Ugrapuram	Areekode	334	0	303	334	0	0	31
13	Kadungallur	Areekode	846	0	838	846	0	0	8
14	Asharithodu	Kavanoor	976	0	969	976	0	0	7
15	Vilayil	Muthuvallur, Kuzhimanna	873	0	859	873	0	0	14
16	Poonkudipadam	Muthuvallur	195	0	189	195	0	0	7
17	Vavoor thodu	Cheekode	300	0	272	300	0	0	29
18	Chaliyapuram-	Kizhuparamba	387	0	321	387	0	0	66
	Edasserikkadavu	Kizhuparamba	173	0	152	173	0	0	21
		Total	9466	200	9466	200	9466	200	9466

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 Ag	gro-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	Kizhuparamba	Northern zone	Kizhuparamba, Cheekode	Moderate	
2	Pathanapuram	Northern zone	Kizhuparamba	Undulating	
3	Chaliyapuram-Edavazhikadavu	Northern zone	Urungatti	Undulating	
4	Kanjirakkundu	Northern zone	Perakamanna, Edavana	Undulating	
5	Keyilanthodu	Northern zone	Perakamanna	Undulating	
6	Eliyakkottupara	Northern zone	Perakamanna	Undulating	
7	Muthirottithodu	Northern zone	Edavana	Undulating	
8	Nadakkerambu	Northern zone	Mambad	Undulating	
9	Pannippara	Northern zone	Perakamanna	Moderate	Ę
10	Panarkund	Northern zone	Edavana	Flat	2871 mm
11	Areacode	Northern zone	Areekode	Moderate	287
12	Ugrapuram	Northern zone	Areekode	Moderate	
13	Kadungallur	Northern zone	Areekode	Moderate	
14	Asharithodu	Northern zone	Kavanoor	Moderate	
15	Vilayil	Northern zone	Muthuvallur, Kuzhimanna	Moderate	
16	Poonkudipadam	Northern zone	Muthuvallur	Moderate	
17	Vavoor thodu	Northern zone	Cheekode	Moderate	
18	Chaliyapuram-Edavazhikadavu	Northern zone	Kizhuparamba	Flat	
19	Edasserikkadavu	Northern zone	Kizhuparamba	Moderate	

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

1	2			6					9		
			Μ	lajor soil typ	pes				Major cr	ops	
No	Name of the watershed	Brown hydromo rphic soil	Lateritic soil	Riverine alluvium	0	Total	Coconut	Paddy	Mixed	Rubber	Total
1	Kizhuparamba	0	312	227	0	539	0	134	296	88	518
2	Pathanapuram	0	237	28	0	265	0	0	250	14	264
3	Chaliyapuram-Edavazhikadavu	0	585	0	0	585	0	46	187	22	255
4	Kanjirakkundu	0	792	0	0	792	0	30	84	155	269
5	Keyilanthodu	0	198	0	0	198	0	11	100	18	129
6	Eliyakkottupara	0	271	0	0	271	0	0	140	0	140
7	Muthirottithodu	0	625	0	0	625	0	0	178	60	238
8	Nadakkerambu	0	714	0	0	714	0	0	296	102	399
9	Pannippara	0	518	0	0	518	0	12	336	133	481
10	Panarkund	0	502	0	0	502	0	11	320	143	473
11	Areacode	0	78	295	0	373	0	53	283	12	348
12	Ugrapuram	0	0	334	0	334	0	36	247	20	303
13	Kadungallur	0	572	274	0	846	0	108	427	303	838
14	Asharithodu	0	975	0	0	975	0	153	773	44	969
15	Vilayil	0	838	35	0	873	0	159	529	171	859
16	Poonkudipadam	0	0	196	0	196	0	49	62	78	189
17	Vavoor thodu	0	0	300	0	300	0	36	172	63	272
18	Chaliyapuram-Edavazhikadavu	0	0	388	0	388	0	29	292	0	321
19	Edasserikkadavu	0	86	88	0	173	0	39	114	0	152

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

1	2	3		4	5
No	Particulars	Villages		Not affected	
NO		villages	Annual	Any other - once in 4 years	Not affected
		No. of villages	0	6	4
1	Flood	Name(s) of villages	0	Kizhuparamba, Urungattiri, Perakamanna, Edavana, Kuzhimanna, Muthuvallur	
		No. of villages	0	6	4
2	Drought			Kizhuparamba, Urungattiri, Perakamanna, Edavana, Kuzhimanna, Muthuvallur	
		Total	0	12	4

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			
а	Severe	3907	NA	NA
b	Moderate	4355	NA	NA
С	Slight	1206	NA	NA
	Sub-Total	9468	NA	NA
	Wind erosion	0	NA	NA
	Total	9468	NA	NA

V. DEMOGRAPHY AND LAND DISTRIBUTION

Details about population is given as table

Key features of population in Table

		Area (In Ha)	Total Families	F	Population		BPL Families	Land
No	Watershed Name	Area (III Ha)	Total Families	Total	SC	ST	DPL rainines	holding/Famil
		9466	17240	99522	10508	434	6263	y (In Ha)
1	Kizhuparamba	539	1247	6700	619	1	465	0.43
2	Pathanapuram	265	603	3239	298	1	225	0.44
3	Chaliyapuram-Edavazhikadavu	585	595	3300	331	54	220	0.98
4	Kanjirakkundu	791	1095	6403	750	51	327	0.72
5	Keyilanthodu	198	265	1542	178	13	81	0.75
6	Eliyakkottupara	271	376	2199	258	17	112	0.72
7	Muthirottithodu	625	856	4935	545	64	278	0.73
8	Nadakkerambu	714	935	5144	451	155	378	0.76
9	Pannippara	518	716	4185	490	34	214	0.72
10	Panarkund	501	699	4052	497	30	216	0.72
11	Areacode	373	1010	5956	595	1	384	0.37
12	Ugrapuram	334	911	5377	536	1	347	0.37
13	Kadungallur	846	2291	13532	1354	2	871	0.37
14	Asharithodu	976	1559	9099	1059	8	534	0.63
15	Vilayil	873	1821	10853	1153	1	676	0.48
16	Poonkudipadam	195	399	2389	257	0	171	0.49
17	Vavoor thodu	300	612	3664	395	0	263	0.49
18	Chaliyapuram-Edavazhikadavu	387	847	4798	542	0	349	0.46
19	Edasserikkadavu	173	400	2154	201	0	150	0.43

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 intervention under the project	ns Current status of migration (No. of people)	Main reasons for migration
	Kizhuparamba	Employment in construction sector,	Animal husbandry with strong	67	
2	Pathanapuram Chaliyapuram-Edavazhikadavu	wage labour in semi skilled and	forward and backward linkages	and <u>32</u> 33	Lack of job opportunities in
3 4	Kanjirakkundu	unskilled activities, trading etc. are	supporting infrastructure and	64	the agriculture sector due to
	Keyilanthodu	the major livelihood of the poor	initiatives at the homestead is the	16 15	low productivity and poor
6	Eliyakkottupara	people now. Middle and upper class are employed in service	main possibility. High yield cows which can be milked in tandem,	22	income from land. This is
	Muthirottithodu	sector, government and large	scientifically constructed cowshe	ed 49	inducing the farmer to fallow
8	Nadakkerambu	private enterprises. Agriculture is	and biogas tank, grass cultivation	5 D	the land and search for
	Pannippara	not the soul income anymore.		ing <u>42</u>	better alternatives. As more
_	Panarkund Areacode	Agricultural labour is part of the	the availability of milking maching	nes, <u>41</u> 60	and more people move to the urban areas seeking
12	Ugrapuram	employment of the poor. For the	soft finance, hand holding for th	e 54	employment, whatever rural
-	Kadungallur	poor families another major chunk	first few years, providing functio	nal 135	economic activities remain
14	Asharithodu	is the income from MNREGS . Lower income people also attempt	insurance etc. are essential for the success of the programme. Food	01	gets weakened and faces a
15	Vilayil	animal husbandry with mixed	processing at household level us	ing 109	gradual demise. Only the
	Poonkudipadam	results. More often the cash	locally available banana, jack fru	it 24	people with ensured income
17	Vavoor thodu	income from such activities is not	mango etc. is another possibility	31	or people who are unable to
	Chaliyapuram-Edavazhikadavu	sufficient due to a number of	Rearing of backyard chicken, qua	ail <u>48</u>	move remain in the villages.
19	Edasserikkadavu 19	factors	rabbit etc. can be explored.	22 50	

VII. EXPECTED PROJECT OUTCOMES

VII. (i). Expected employment related outcomes:

Table-PPR 14: Employment generation

1	2						3							4	4	
						Wage em	ploym	ent						Self emp	oloyment	
	Names of the		No	. of man-c	lays in '00 s	6			No. of ben	eficiaries			No. of beneficiaries			
No.	watersheds	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1	Kizhuparamba	62	0	1315	838	2215	62	0	1315	838	2215	37	0	329	670	1036
2	Pathanapuram	30	0	636	405	1071	30	0	636	405	1071	18	0	159	324	501
3	Chaliyapuram-	33	5	645	413	1096	33	5	645	413	1096	20	3	161	330	514
4	Kanjirakkundu	75	5	1249	800	2129	75	5	1249	800	2129	45	3	312	640	1001
5	Keyilanthodu	18	1	301	193	513	18	1	301	193	513	11	1	75	154	241
6	Eliyakkottupara	26	2	429	275	731	26	2	429	275	731	15	1	107	220	344
7	Muthirottithodu	54	6	963	617	1640	54	6	963	617	1640	33	4	241	493	771
8	Nadakkerambu	45	15	1005	643	1708	45	15	1005	643	1708	27	9	251	514	802
9	Pannippara	49	3	816	523	1392	49	3	816	523	1392	29	2	204	418	654
10	Panarkund	50	3	789	507	1349	50	3	789	507	1349	30	2	197	405	634
11	Areacode	59	0	1167	745	1972	59	0	1167	745	1972	36	0	292	596	923
12	Ugrapuram	54	0	1054	672	1780	54	0	1054	672	1780	32	0	263	538	833
13	Kadungallur	135	0	2652	1692	4479	135	0	2652	1692	4479	81	0	663	1353	2098
14	Asharithodu	106	1	1777	1137	3021	106	1	1777	1137	3021	64	1	444	910	1418
15	Vilayil	115	0	2124	1357	3596	115	0	2124	1357	3596	69	0	531	1085	1686
16	Poonkudipadam	26	0	467	299	792	26	0	467	299	792	15	0	117	239	371
17	Vavoor thodu	39	0	717	458	1215	39	0	717	458	1215	24	0	179	366	569
18	Chaliyapuram-	54	0	938	600	1592	54	0	938	600	1592	33	0	234	480	747
19	Edasserikkadavu	20	0	423	269	712	20	0	423	269	712	12	0	106	215	333
	19	1051	43	19467	12440	33001	1051	43	19467	12440	33001	630	26	4867	9952	15475

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	Kizhuparamba	67	6700		54
2	Pathanapuram	32	1911		29
3	Chaliyapuram-Edavazhikadavu	33	4059	Lack of ich	20
4	Kanjirakkundu	64	1537	- Lack of job	48
5	Keyilanthodu	15	1542	- opportunities in the	13
6	Eliyakkottupara	22	1297	 agriculture and allied sectors. Low 	18
7	Muthirottithodu	49	6070		44
8	Nadakkerambu	51	1235	 productivity and poor income from land. 	31
9	Pannippara	42	4185	- Rural economic	31
10	Panarkund	41	2391		34
11	Areacode	60	7326	 activities getting weakened. Weak 	48
12	Ugrapuram	54	1290	infrastructure and	48
13	Kadungallur	135	13532		81
14	Asharithodu	91	5368	 support services for agriculture. Better 	68
15	Vilayil	109	13349		92
16	Poonkudipadam	24	573	 livelihoods, Changing life styles. 	19
17	Vavoor thodu	37	2162		33
18	Chaliyapuram-Edavazhikadavu	48	5901]	29
19	Edasserikkadavu	22	517]	16
	19	50	4047		757

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 (In me	5	6				
No	Names of the watersheds	Sources	Pre-Project level	Expected post-project level	Remarks				
		Open wells	8	6					
1	Kizhuparamba	Bore wells	90	72					
	Γ	Others - Ponds	6	5					
		Open wells	9	6					
2	Pathanapuram	Bore wells	105	84					
	Γ	Others - Ponds	7	6					
		Open wells	7	5					
3	Chaliyapuram-Edavazhikadavu	Bore wells	95	76	This increases will				
	Γ	Others - Ponds	5	5	This increase will				
		Open wells	6	4	substantially improve				
4	Kanjirakkundu	Bore wells	85	68	the drinking water				
		Others - Ponds	4	4	availability, reduce the drudgery for fetching				
		Open wells	7	5	water and increase the				
5	Keyilanthodu	Bore wells	100	80					
	Γ	Others - Ponds	5	5	irrigated areas. But				
		Open wells	8	6	substantial steps to				
6	Eliyakkottupara	Bore wells	115	92	improve water and				
	Γ	Others - Ponds	6	5	irrigation efficiency through the application				
		Open wells	9	6	of modern and				
7	Muthirottithodu	Bore wells	130	104	traditional technologies				
	Γ	Others - Ponds	7	6	is essential. There must				
		Open wells	7	5	be simultaneous				
8	Nadakkerambu	Bore wells	120	96	initiatives to reduce the				
	F	Others - Ponds	5	5	contamination of				
		Open wells	5	4	surface water and				
9	Pannippara	Bore wells	110	88	surface water and				

	Ι Γ	Others - Ponds	3	3	
		Open wells	6	4	residues of pesticides
10	Panarkund	Bore wells	125	100	and fertilizers,
		Others - Ponds	4	4	household waste and
		Open wells	7	5	garbage, poor
11	Areacode	Bore wells	140	112	sanitation facilities,
		Others - Ponds	5	5	waste from fish/meat
		Open wells	6	4	stalls, vegetable
12	Ugrapuram	Bore wells	130	104	markets and small
		Others - Ponds	4	4	teashops in the watershed area.
		Open wells	7	5	
13	Kadungallur	Bore wells	145	116	Convergence efforts should be launched
	Γ	Others - Ponds	5	5	with other Govt
		Open wells	8	6	
14	Asharithodu	Bore wells	135	108	 departments and NGO s to achieve this. New
	Γ	Others - Ponds	9	8	
		Open wells	6	4	agricultural practices
15	Vilayil	Bore wells	125	100	irrigation and precision
	Γ	Others - Ponds	4	4	farming should be
		Open wells	7	5	promoted in tandem
16	Poonkudipadam	Bore wells	140	112	with high efficiency
		Others - Ponds	5	5	pumps, piped irrigation
		Open wells	8	6	water, bio gas tanks etc.
17	Vavoor thodu	Bore wells	155	124	water, bio gas tanks etc.
		Others - Ponds	6	5	
		Open wells	9	6	
18	Chaliyapuram-Edavazhikadavu	Bore wells	145	116	
		Others - Ponds	10	9	
		Open wells	10	7	
19	Edasserikkadavu	Bore wells	160	128	
	Γ Γ	Others - Ponds	11	10	

Source of data:

Panchayat development report and resource map report

1	2		3		4	5			
No	Names of the watersheds	Availability of d	rinking water (no. of months in a year)	Qual	ity of drinking water	Comments			
		Pre project	Expected post project	Pre project	Expected post project				
1	Kizhuparamba	9	10						
2	Pathanapuram	8	10	Turbulence,					
3	Chaliyapuram-Edavazhikadavu	11	12	hardness,					
4	Kanjirakkundu	10	11	high iron and		The issues listed are			
5	Keyilanthodu	7	9	salinity are		The issues listed are culled from varies			
6	Eliyakkottupara	11	12	the major		studies conducted in			
7	Muthirottithodu	9	10	issues	Reduced concentration of	the area by other agencies. There is also a variation in quality issues during different			
8	Nadakkerambu	9	11	observed.	dissolved salts, less incidence				
9	Pannippara	8	9	High	of turbulence, a check				
10	Panarkund	10	11	presence of e	regarding the saline				
11	Areacode	11	12	coli is	intrusion, better	seasons. More primary			
12	Ugrapuram	12	10	observed in	bacteriological quality etc.	data generation before			
13	Kadungallur	12	10	almost all	are the major expected post	the launching of the			
14	Asharithodu	13	11	open wells	project benefits	v			
15	Vilayil	7	8	and ponds.		project is recommended to			
16	Poonkudipadam	11	9	They are also		create a bench mark.			
17	Vavoor thodu	9	10	present in		CIEALE A DEITUTI HINAK.			
18	Chaliyapuram-Edavazhikadavu	8	9	number of					
19	Edasserikkadavu	10	11	open wells as					
	19	10	10	well.					

Table-PPR 17: Status of Drinking water*

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	905	1820	995	2093		
	Rabi						
	Paddy	905	2130	1266	3515		

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						
/	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	
			Instalment	Financial year of release of fund	Amount released	Amount utilized	Submission of UC		Date of submission of UC		Reasons for not		Pending UCs	
No	District	Project	no.				Due date	Amount	Date	Amount	submitting/ delayed submission of UC	Period	Amount	
10	Malappuram													
Table- PPR 20: Details of Unspen						nt bala	balance as on			: District wise*				
	1 2		3			4		5			6			
									Total funds released		eased	Unspent balance		nce
	No District		Name of the Project		ect To	Total cost (Rs. in lakh)		(Rs. in lakh))	(Rs. in lakhs)		-)	
					-				Dolf	State		(KS. 111 10K115)		»)
	10 Malappuram													
	<u>14</u>					<u>0</u>		<u>0</u> <u>0</u>		<u>0</u>				

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	
	Total area to be covered under proposed projects (000' ha)			
3	(a) Hilly & Desert areas [#]	9.47		
3	(b) Others		0.00	
	Total	<u>9.47</u>	<u>0.00</u>	
	Total cost of the proposed Watershed projects (Rs. in lakhs)			
1	(a) Hilly & Desert areas [#]	1419.90		
4	(c) Others		0.00	
	Total	<u>1419.90</u>	<u>0.00</u>	
5	First installment required from central funds for the proposed watershed projects	<u>255.58</u>	<u>0.00</u>	

Project Abstract

1	Title of Project	Integrated Watershed Management Programme i	n Malappuram
2	No. of watersheds proposed	<u>19</u>	
3	Area proposed	<u>9466</u>	hectares
4	Project Cost	<u>1419.90</u>	<u>in lakhs</u>
5	a Amount to be met form IWMP	<u>1277.91</u>	<u>in lakhs</u>
	b From other sources	<u>141.99</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 Malappuram District Panchayat Phone E-mail	

<u>Certificate</u>

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 Malappuram Project Director Poverty Alleviation Unit District Panchayat Malappuram