

# **Integrated Watershed Management Programme**

## **Preliminary Project Report (PPR)**

**Kottayam**

**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 <sup>#</sup>	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 <sup>#</sup>	Name	Designation	Date of Appointment	Nature of appointment <sup>\$</sup>	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	
				Micro-watersheds covered so far							
				Dept. of Land Resources		Other Ministries/ Depts.		Total watersheds covered			
				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	Kottayam	217	219498	3	0	82	112845	85	112845	113	97984
	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	Kottayam	IWMP1	7	5365	Plains	643.80	31	27	0	70	0	0	105	53	30	0	75	105	0	496
		1	7	5365		643.80														

### # 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 than 10% 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 <sup>#</sup> (Hilly/ Desert/ Others) of the project	IWMP1	0	Plains
3	Name of the District	Kottayam		
4	Names of the Blocks	Erattupetta		
5	Names of Gram Panchayats	Munnilavu		
		Melukavu		
		Thalanad		
		Theekoyi		
		Poonjar		
		Erattupetta		
6	Names & Census Code of Villages covered	Melukavu		00095600
		Erattupetta (CT)		'00096000
		Poonjar Vadakkekara		00095800
		Teekoy		00095900
		Moonilavu		00095700
		Poonjar Nadubhagam		00097400
7	Names & Codes of the micro-watersheds	Areekkathodu		12M25d
		Vengattu thodu		12M25g
		Maravikkallu thodu		12M25h
		Mesthirippadi		12M25i
		Vellani		12M25k
		Orappurakkad		12M25m
		Nedungazhi		12M25n

8	<b>Four major reasons for selection of watershed</b>	Dilapidated traditional irrigation systems	
		Low productivity of land	
		Strong presence of SC/ST, BPL families and marginal farmers	
		Poor adaptation to climate change	
9	<b>Area of the Project (ha.)</b>	<b>5365</b>	
10	<b>Area proposed to be treated (ha.)</b>	<b>5365</b>	
11	<b>Project Cost (Rs. in Lakhs)</b>	<b>643.80</b>	
12	<b>Name and Address of proposed PIA</b>	<b>Erattupetta</b>	<b>Block Panchayat</b>

**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	Areekkathodu	Melukavu, Moonilavu	463	0	418	464	0	13	32
2	Vengattu thodu	Erattupetta (CT), Moonilavu	820	0	793	820	0	14	13
3	Maravikkallu thodu	Poonjar Vadakkekara,	736	0	702	735	0	28	6
4	Mesthirippadi	Poonjar Vadakkekara	231	0	215	231	0	16	0
5	Vellani	Poonjar Vadakkekara	568	0	553	568	0	1	14
6	Orappurakkad	Teekoy	650	0	615	650	0	22	13
7	Nedungazhi	Erattupetta (CT), Poonjar	1896	0	1853	1896	0	18	24
	<b>Total</b>		<b>5365</b>	<b>0</b>	<b>5365</b>	<b>0</b>	<b>5365</b>	<b>0</b>	<b>5365</b>

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	Areekkathodu	Malayoram	Melukavu, Moonilavu	Undulating	3254 mm
2	Vengattu thodu	Malayoram	Erattupetta (CT), Moonilavu	Moderate	
3	Maravikkallu thodu	Malayoram	Poonjar Vadakkekkara, Moonilavu	Steep slope	
4	Mesthirippadi	Malayoram	Poonjar Vadakkekkara	Steep slope	
5	Vellani	Malayoram	Poonjar Vadakkekkara	Steep slope	
6	Orappurakkad	Malayoram	Teekoy	Undulating	
7	Nedungazhi	Malayoram	Erattupetta (CT), Poonjar Nadubhagam, Teekoy	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	Areekkathodu	0	464	0	0	464	0	0	334	84	418
2	Vengattu thodu	0	820	0	0	820	4	0	482	307	793
3	Maravikkallu thodu	0	735	0	0	735	6	0	309	387	702
4	Mesthirippadi	0	231	0	0	231	1	0	116	97	215
5	Vellani	0	568	0	0	568	0	0	492	61	553
6	Orappurakkad	0	650	0	0	650	5	0	372	239	615
7	Nedungazhi	0	1896	0	0	1896	19	4	1136	694	1853

**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	1	5
		Name(s) of villages	0	Poonjar Vadakkekara	
2	Drought	No. of villages	0	1	5
		Name(s) of villages	0	Poonjar Vadakkekara	
Total			0	1	5

**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	0	NA	NA
b	Moderate	5365	NA	NA
c	Slight	0	NA	NA
Sub-Total		5365	NA	NA
Wind erosion		0	NA	NA
Total		5365	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		
				5365	4606	21933		
1	Areekkathodu	463	337	1514	58	428	108	1.37
2	Vengattu thodu	820	768	3566	128	561	155	1.07
3	Maravikkallu thodu	736	467	2151	94	135	152	1.58
4	Mesthirippadi	231	115	518	28	78	9	2.00
5	Vellani	568	280	1255	68	195	17	2.03
6	Orappurakkad	650	456	2122	86	70	189	1.43
7	Nedungazhi	1896	2183	10807	246	134	611	0.87

## 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	Areekkathodu	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	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,	15	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
2	Vengattu thodu			36	
3	Maravikkallu thodu			22	
4	Mesthirippadi			5	
5	Vellani			13	
6	Orappurakkad			21	
7	Nedungazhi			108	
	7			11	

## VII. EXPECTED PROJECT OUTCOMES

### VII. (i). Expected employment related outcomes:

**Table-PPR 14: Employment generation**

1	2	3										4				
		Wage employment										Self employment				
		No. of man-days in '00 s					No. of beneficiaries					No. of beneficiaries				
No.	Names of the watersheds	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1	Areekkathodu	6	43	283	189	521	6	43	283	189	521	3	26	71	151	251
2	Vengattu thodu	13	56	686	446	1200	13	56	686	446	1200	8	34	171	357	569
3	Maravikkallu thodu	9	13	421	269	713	9	13	421	269	713	6	8	105	215	334
4	Mesthirippadi	3	8	99	65	175	3	8	99	65	175	2	5	25	52	83
5	Vellani	7	20	240	157	424	7	20	240	157	424	4	12	60	126	201
6	Orappurakkad	9	7	418	265	699	9	7	418	265	699	5	4	105	212	326
7	Nedungazhi	25	13	2146	1351	3535	25	13	2146	1351	3535	15	8	537	1081	1640
	7	71	160	4294	2742	7267	71	160	4294	2742	7267	42	96	1074	2193	3405

**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	Areekkathodu	15	1514	Lack of job opportunities in the agriculture and allied sectors. Low productivity and poor income from land. Rural economic	12
2	Vengattu thodu	36	2104		32
3	Maravikkallu thodu	22	2646		13
4	Mesthirippadi	5	124		4
5	Vellani	13	1255		11
6	Orappurakkad	21	1252		17
7	Nedungazhi	108	13292		97
	<b>7</b>	<b>11</b>	<b>1109</b>		<b>186</b>

**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	Areekkathodu	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
		Bore wells	90	72	
		Others - Ponds	6	5	
2	Vengattu thodu	Open wells	9	6	
		Bore wells	105	84	
		Others - Ponds	7	6	
3	Maravikkallu thodu	Open wells	7	5	
		Bore wells	95	76	
		Others - Ponds	5	5	
		Open wells	6	4	

4	Mesthirippadi	Bore wells	85	68	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,
		Others - Ponds	4	4	
5	Vellani	Open wells	7	5	
		Bore wells	100	80	
6	Orappurakkad	Others - Ponds	5	5	
		Open wells	8	6	
		Bore wells	115	92	
7	Nedungazhi	Others - Ponds	6	5	
		Open wells	9	6	
		Bore wells	130	104	
		Others - Ponds	7	6	

Source of data:

Panchayat development report and resource map report

**Table-PPR 17: Status of Drinking water\***

1 No	2 Names of the watersheds	3 Availability of drinking water (no. of months in a year)		4 Quality of drinking water		5 Comments
		Pre project	Expected post project	Pre project	Expected post project	
1	Arekkathodu	9	10	Turbulence, hardness, high iron and salinity are the major issues observed. High	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
2	Vengattu thodu	8	10			
3	Maravikkallu thodu	11	12			
4	Mesthirippadi	10	11			
5	Vellani	7	9			
6	Orappurakkad	11	12			
7	Nedungazhi	9	10			
	<b>7</b>	<b>10</b>	<b>10</b>			



## 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	5	2591	5	2980

## 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
5	Kottayam												

**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)
5	Kottayam					
	<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	<b>Hilly/Desert</b>	<b>Others</b>
3	Total area to be covered under proposed projects (000' ha)		
	(a) Hilly & Desert areas <sup>#</sup>	0.00	
	(b) Others		5.37
	Total	<u>0.00</u>	<u>5.37</u>
4	Total cost of the proposed Watershed projects (Rs. in lakhs)		
	(a) Hilly & Desert areas <sup>#</sup>	0.00	
	(c) Others		643.80
	Total	<u>0.00</u>	<u>643.80</u>
5	First installment required from central funds for the proposed watershed projects	<u>0.00</u>	<u>115.88</u>

### Project Abstract

1	Title of Project	Integrated Watershed Management Programme in Kottayam	
2	No. of watersheds proposed	<u>7</u>	
3	Area proposed	<u>5365</u>	<u>hectares</u>
4	Project Cost	<u>643.80</u>	<u>in lakhs</u>
5	a	<u>579.42</u>	<u>in lakhs</u>
	b	<u>64.38</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 Kottayam 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  
Kottayam**

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