## **Integrated Watershed Management Programme**

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

Idukki

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 ar	nd Co Chairperson	CEO									
Name	Name Designation <sup>#</sup>		Name Designation Date of Appointment Nature of appointment Tenure N								
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.)		Funding expected from DoLR (Rs.)		
No						(13.)	R NR		R	NR	
1											

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

	Tak		Details of State		cell (SLDC	· -		1			
1		2	3	4	5	6	7	8	3		9
No	work	I no. of persons king in the SLDC for IWMP	Names & Designation	Qualification	Experience	Work allocation	Monthly remuneration (Rs.)	Total budg (R:	et of SLDC s.) NR	•	expected from oLR (Rs.) NR
1		Technical exper Agriculture Engi		PG/Ph.D in the related Field	10 years		50000	· ·			
2		Technical experenterprises /live	t, (II/Livelinood,micro	B Tech. Computer Science / MCA	10 years		50000				
3		Administrative (	ministrative Officer		10 years		40000				
4	N	Finance cum Ac	counts Officer	PG in FM / Accounts / CA	10 years		35000				
5	n e	Accounts assista	ants - 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+Certi ficate in DTP	5 years		15000				
8		Programmer		Diploma/Certifi cate in related fields	5 years		25000				

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## 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	Experience	Work allocation	· oiiiaiioi atioii	Total bu Watershed	•		expected from DLR (Rs.)
					(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					Ĺ	5
					Mi	cro-watersh	eds covered so	far			
		Total micro	-watersheds in	Dept. of Land Resources		Other Ministries/ Depts.		Total watersheds		Not watersheds to be sovered	
No.	Name of the District			Pre-IWMP projects (DPAP +DDP +IWDP)		Any other watershed project		Total watersheds covered		Net watersheds to be covered	
		No.	Area (ha.)	No.	Area	No.	Area (ha.)	No.	Area h	No.	Area (ha.)
1	Idukki	412	436330	3	21	61	79759	64	79780	129	132422
	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												
	Na	Name of	No. of micro-	Proposed	Type of project	Proposed					W	eight	age u	nder	t <b>h</b> e cr	iteria	#			
No	District	the project	watersheds proposed to be covered	project area (ha)	(Hilly/ Desert/ Others)	cost (Rs. in lakh)	1	2	3	4	5	6	7	8	9	10	11	12	13	Total
1	Idukki	IWMP1	7	6708	Hilly	1006.20	25	25	0	70	0	0	105	53	40	0	50	0	105	473
		1	7	6708		1006.20														

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#### # Criteria and weightage for selection of watershed

No	Criteria 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 tha	an 20 % (3)
iii	Actual wages	5	Actual wages are significantly lower than minimum wages (5)	Actual wages a	are equal to or higher than mir	nimum wages (0)
iv	% of small and marginal farmers	10	More than 80 % (10)	50 to 80 % (5)	Less tha	an 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)
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)
ix	Degraded land	15	High – above 20 % (15)	Medium – 10 to 20 % (10)	Low-less tha	n10% of TGA(5)
х	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)	· .	n & where productivity can be 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)	15	Above 6 micro-watersheds in cluster (15)	4 to 6 micro watersheds in cluster (10)	2 to 4 micro watersheds in cluster (5)	
All	Cluster approach in the hills (more than one contiguous microwatersheds in the project)		Above 5 micro-watersheds in cluster (15)	3 to 5 micro watersheds in cluster (10)	eds in 2 to 3 micro watersheds in cluste	

## 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	0	Hilly				
3	Name of the District		ldukki					
4	Names of the Blocks	Elemdesam						
4	Names of the blocks	Thodupuzha						
		Alakkode						
5	Names of Cram Danchayate	Velliyamatto	om					
)	Names of Gram Panchayats	Kudayathoo	r					
		Muttom						
		Alacode		00093400				
	Names & Consus Code of Villages severed	Muttom	00093300					
6	Names & Census Code of Villages covered	Velliyamattom	Velliyamattom					
		Kudayathoor	Kudayathoor					
		Alakode		13M41b				
		Thalainadu Malankara	estate	13M43a				
		Konthappally		13M44a				
7	Names & Codes of the micro-watersheds	Karukappally thodu		13M44d				
		Muthiyamal thodu		13M45a				
		Koovappally thodu		13M48a				
		Anchukallingal thodu		13M50a				
		Dilapidated traditional i	rrigation systems					
8	Four major reasons for selection of watershed	Low productivity of land	d					
0	rour major reasons for selection of watershed	Strong presence of SC/ST, BPL families and marginal farmers						
		Poor adaptation to clim	ate change					

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9	Area of the Project (ha.)	6708					
10	Area proposed to be treated (ha.)	6708					
11	Project Cost (Rs. in Lakhs)	1006.20					
12	Name and Address of proposed PIA	Elemdesam Block Panchayat					

# 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 Forest La		Land under	Rain fed	Permanent	Wasteland		
No	Name of watersheds	Names of villages	Area of the watershed	Area	agricultural use	area	pastures	Cultivabl e	Non-cultivable	
1	Alakode	Alacode	1377	0	1329	1377	0	14	34	
2	Thalainadu Malankara	Muttom	713	0	502	713	0	1	210	
3	Konthappally	Alacode	1271	0	1239	1271	0	9	22	
4	Karukappally thodu	Veliayamattom	1435	0	1382	1435	0	2	50	
5	Muthiyamal thodu	Kudayathoor	316	0	285	316	0	4	27	
6	Koovappally thodu	Kudayathoor	1194	0	1110	1194	0	0	83	
7	Anchukallingal thodu	Muttom	403	0	374	403	0	9	20	
		Total	6708	0	6708	0	6708	0	6708	

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	Alakode	High range	Alacode	Moderate	
2	Thalainadu Malankara estate	High range	Muttom	Moderate	
3	Konthappally	High range	Alacode	Steep slope	E E
4	Karukappally thodu	High range	Veliayamattom	Undulating	_
5	Muthiyamal thodu	High range	Kudayathoor	Moderate	418.
6	Koovappally thodu	High range	Kudayathoor	Steep slope	
7	Anchukallingal thodu	High range	Muttom	Undulating	

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

1	2			6	•				9		
		Major soil types					Major crops				
No	Name of the watershed	Brown hydromo rphic soil	CUII	Riverine alluvium	0	Total	Coconut	Paddy	Mixed	Rubber	Total
1	Alakode	0	1377	0	0	1377	10	102	1052	164	1329
2	Thalainadu Malankara estate	0	0	713	0	713	0	12	290	200	502
3	Konthappally	0	1108	162	0	1271	0	78	1162	0	1239
4	Karukappally thodu	0	1193	242	0	1435	1	51	1316	15	1382
5	Muthiyamal thodu	0	59	257	0	316	0	0	284	1	285
6	Koovappally thodu	0	966	228	0	1194	0	0	1110	0	1110
7	Anchukallingal thodu	0	61	341	0	403	9	2	274	89	374

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

1	2	3		4	5
No	Particulars	Villages	P	Not affected	
INO	Pai ticulai s	villayes	Annual	Any other - once in 4 years	Not affected
		No. of villages	0	4	0
1	1 Flood	Name(s) of villages	0	Alacode, Muttom, Velliyamattom, Kudayathoor	
	D l.l	No. of villages	0	0	4
	2 Drought	Name(s) of villages	0	Nil	
Total			0	4	0

## 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	6136	NA	NA
b	Moderate	572	NA	NA
С	Slight	0	NA	NA
	Sub-Total	6708	NA	NA
	Wind erosion	0	NA	NA
	Total	6708	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		Population		BPL Families	Land
No	Watershed Name	Alea (III IIa)	Total Laitilles	Total	SC	ST	DFL I dillilles	holding/Family
		6708	6512	28771	1745	3556	1375	(In Ha)
1	Alakode	1377	1168	5258	342	114	218	1.18
2	Thalainadu Malankara estate	713	594	2668	189	53	108	1.20
3	Konthappally	1271	1531	6684	347	1317	382	0.83
4	Karukappally thodu	1435	1560	6814	373	1302	365	0.92
5	Muthiyamal thodu	316	282	1254	78	132	52	1.12
6	Koovappally thodu	1194	993	4406	282	489	186	1.20
7	Anchukallingal thodu	403	384	1686	135	148	64	1.05

#### 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	Current status of migration (No. of people)	Main reasons for migration
1	Alakode	Employment in construction sector,	Animal husbandry with strong	53	Lack of job opportunities in
2	Thalainadu Malankara estate	wage labour in semi skilled and	forward and backward linkages ar	nd 27	the agriculture sector due to
3	Konthappally	unskilled activities, trading etc. are	supporting infrastructure and	67	low productivity and poor
4	Karukappally thodu	the major livelihood of the poor	initiatives at the homestead is the	68	income from land. This is
5	Muthiyamal thodu	people now. Middle and upper class	main possibility. High yield cows	13	inducing the farmer to fallow
6	Koovappally thodu	are employed in service sector,	which can be milked in tandem,	44	the land and search for
7	Anchukallingal thodu	government and large private	scientifically constructed cowshed	17	better alternatives. As more
	7	enterprises. Agriculture is not the	and biogas tank, grass cultivation,	, 14	and more people move to the

## 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	loyment	
			No	o. of man-c	lays in '00 s	5			No. of ben	eficiaries				No. of bei	neficiaries	
No.	Names of the watersheds	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1	Alakode	34	11	1033	657	1736	34	11	1033	657	1736	21	7	258	526	812
2	Thalainadu Malankara	19	5	524	334	882	19	5	524	334	882	11	3	131	267	412
3	Konthappally	35	132	1270	836	2272	35	132	1270	836	2272	21	79	318	668	1086
4	Karukappally thodu	37	130	1296	852	2315	37	130	1296	852	2315	22	78	324	681	1106
5	Muthiyamal thodu	8	13	242	157	420	8	13	242	157	420	5	8	61	125	199
6	Koovappally thodu	28	49	850	551	1478	28	49	850	551	1478	17	29	213	441	699
7	Anchukallingal thodu	13	15	326	211	565	13	15	326	211	565	8	9	81	169	267
	7	175	356	5542	3596	9669	175	356	5542	3596	9669	105	213	1386	2877	4581

## 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	Alakode	53	5258	Lack of job	42
2	Thalainadu Malankara estate	27	1574	opportunities in the	24
3	Konthappally	67	8221	agriculture and allied	40
4	Karukappally thodu	68	1635	sectors. Low	51
5	Muthiyamal thodu	13	1254	productivity and poor	11
6	Koovappally thodu	44	2599	income from land.	35
7	Anchukallingal thodu	17	2074	Rural economic	15
	7	14	1131		218

## 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
		Open wells	8	6	This increase will
1	Alakode	Bore wells	90	72	substantially improve
		Others - Ponds	6	5	the drinking water
		Open wells	9	6	availability, reduce the
2	Thalainadu Malankara estate	Bore wells	105	84	drudgery for fetching
		Others - Ponds	7	6	water and increase the
		Open wells	7	5	irrigated areas. But
3	Konthappally	Bore wells	95	76	substantial steps to
		Others - Ponds	5	5	improve water and
		Open wells	6	4	irrigation efficiency
4	Karukappally thodu	Bore wells	85	68	through the application
		Others - Ponds	4	4	of modern and
		Open wells	7	5	traditional technologies
5	Muthiyamal thodu	Bore wells	100	80	is essential. There must
		Others - Ponds	5	5	be simultaneous
		Open wells	8	6	initiatives to reduce the
6	Koovappally thodu	Bore wells	115	92	contamination of
	· · · · ·	Others - Ponds	6	5	surface water and
		Open wells	9	6	ground water from the
7	Anchukallingal thodu	Bore wells	130	104	residues of pesticides
		Others - Ponds	7	6	and fertilizers,

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 dr	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	Alakode	9	10	Turbulence,	Reduced concentration of dissolved salts, less incidence	The issues listed are	
2	Thalainadu Malankara estate	8	10	hardness,		culled from varies	
3	Konthappally	11	12	high iron and	of turbulence, a check	studies conducted in	
4	Karukappally thodu	10	11	salinity are	regarding the saline intrusion,	the area by other	
5	Muthiyamal thodu	7	9	the major	better bacteriological quality	agencies. There is also a	
6	Koovappally thodu	11	12	issues	etc. are the major expected	variation in quality	
7	Anchukallingal thodu	9	10	observed.	post project benefits	issues during different	
	7	10	10	High	post project beliefits	seasons. More primary	

## 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	244	2502	269	2877	

#### VIII. MANDATORY CERTIFICATION

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

	down by bock
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 I	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	
ſ		The State will not undertake unnecessary foreclosure of the projects. In the event of foreclosure, the State will refund the amount and furnish all	1
	22	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	1	1
	District	Project	Instalment	Financial year of release of fund	Amount		Submission of UC		Date of submission of UC		Reasons for not	Pending UCs	
No							Due date	Amount	Date	Amount	submitting/ delayed submission of UC	Period	Amount
6	ldukki												

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

1	2	3	4	5		6	
				Total fund	ls released	Unspent balance	
No	District	Name of the Project	Total cost (Rs. in lakh)	(Rs. ir	n lakh)	(Rs. in lakhs)	
				DoLR	State	(KS. III IAKI IS)	
6	Idukki						
	<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	Thir	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 <sup>#</sup>	6.71		
	(b) Others		0.00	
	Total	<u>6.71</u>	<u>0.00</u>	
	Total cost of the proposed Watershed projects (Rs. in lakhs)			
4	(a) Hilly & Desert areas <sup>#</sup>	1006.20		
-	(c) Others		0.00	
	Total	<u>1006.20</u>	<u>0.00</u>	
5	First installment required from central funds for the proposed watershed projects	<u>181.12</u>	<u>0.00</u>	

## **Project Abstract**

1	Title of Project	Integrated Watershed Management Programme in	ldukki
2	No. of watersheds proposed	<u>7</u>	
3	Area proposed	<u>6708</u>	<u>hectares</u>
4	Project Cost	<u>1006.20</u>	<u>in lakhs</u>
5	a Amount to be met form IWMP	905.58	<u>in lakhs</u>
	b From other sources	<u>100.62</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 Idukki 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 Idukki Project Director
Poverty Alleviation Unit
District Panchayat
Idukki