

**CONSTRUCTION OF 40 RAIN
WATER HARVESTING SYSTEMS
at AMPARA DISTRICT
(PERIYAKALAPU LAGOON and
its BORDERING VILLAGE)**

Project Completion Report

Submitted to

IUCN

December 2008



Lanka Rain Water Harvesting Forum

28/3 A, Subadrarama Road, Nugegoda, Sri Lanka.

Tel: 94-0115-524612, Fax: 94-11-2768520

E Mail :lrwhf@sltnet.lk, www.lankarainwater.org

PROJECT COMPLETION REPORT

Project name: **Construction of 40 Rain Water Harvesting Systems at Ampara District (Periyakalapu lagoon and its bordering village**

Duration: **4 months (18th August 2008- 31st December 2008)**

Date of report: **30th December 2008**

Reporting period: **18th August 2008- 31st December 2008**

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Context

The project aims to is to construct 40 rain water harvesting Systems at Ampara District (Periyakalapu lagoon and its bordering village

Activity planned until and during this period

Planned activity for the period covers activities

List of planned activities

- Development of selection criteria for identify beneficiaries for RWH in the project area
- Conduct awareness programmes in each target village. Visibility and information material, video documentary on the utilization of rainwater will be used to raise awareness. Leaflets and brochures will be distributed to the community on rainwater harvesting systems.
- Identify 40 beneficiaries to construct according to the selection criteria developed.
- Construct an 8 m³ above ground ferrocement rain water tank (annex 2) with 2 gutter lengths and first flush system in each of the selected 40 households. LRWHF to organize and acquire the necessary construction materials and a trained mason for the construction of RWH tanks within the compound of the beneficiary house. The beneficiary to participate and contribute during the construction of a RWH tank for his/her family. During the construction LRWHF Field Officer/coordinator to closely supervise every step of the construction to ensure use of standard material, cement mixture, pipes etc.
- Conduct Operation and maintenance training to all beneficiaries who receive 8 m³ RWH tanks. After two weeks of RWH tanks are built in a GN village or in a cluster of households one operation and maintenance training will be held. Using graphic, drawings and wall sheets half-day class room discussion and on site demonstration how to operate and maintain the down pipe, first flush, how to clean filter and change filter material, when to clean the roof, gutter and tank itself etc. will be shared with the beneficiaries by LRWHF project coordinator

Results achieved

1. Feasibility Study

LRWHF staff with IUCN staff in Ampara conducted a feasibility study in the area to select location for implementation of the project activities. Five villages were visited and their available water resources were assessed. Please see attached report annex 1. Out of the villages assessed Kovalai was selected to implement the project as this had the most scarcity of drinking water.

2. Awareness programs

Selection of households for construction of Rain water harvesting system was conducted by IUCN staff with advice and assistance from LRWHF staff. LRWHF staff conducted an awareness programs to all selected households on the 9th October 2008, 41 persons participated in this program. Leaflets and brochures were distributed to all participants. Annex 2: list of participants.

3. Construct RWH systems in individual households

40 x 8m³ RWH systems were completed in individual households at, **Theevukkalai** (Kolavil-01) on the 19th October before the onset of rainy season, so that the beneficiaries are able to collect and use the seasonal rains. Please see attached annex 3 for name of beneficiaries.

4. Operation and maintenance training for households

Members of each household were trained in O&M of the system on the 6th November 2008, 42 persons participated in this program. An instruction leaflet was given to each household constructed with a rain water harvesting tank. Clear instruction on use of first flush, cleaning of roof, gutters and tanks were given to the community. See list of participants at O&M training program (Annex 4).

Furthermore, a household water filter was given to all 40 households with instruction on how to operate and maintain. This was handed over to the beneficiaries at a ceremony held on the 13th November in the presence of IUCN staff. See list of participants (Annex 5)

A tool for monitoring the effective operation and maintenance is shared with IUCN staff. See attached survey form (Annex 6). LRWHF staff will support IUCN staff to carry out this activity.

5. Provide maintenance assistance after the project is complete.

LRWHF staff at Pottuvil will provide any support needed to assist beneficiaries in operating the rain water harvesting systems. A list of trained masons in the area will be made available to the community for future repairs. (Annex 7)

Annex 1: VILLAGE ASSESSMENT REPORT

Participants

V.Theepakasan

R.M.Gamini

Author

V.Theepakasan

01) Alayadivembu DS division

No.	Village / GN division	Existing water sources	Comments
01	Sinna Muhathuvaram a.Theevukkalai	Dug well	There are around 175 houses in this village. All the houses contain wells, but most of the wells are salty and yellow colour all the time except some wells near main street. Most wells are not used. These people get their drinking water from sources 500 m away. Predeshya Sabha also supply the water using bowser, but it is not enough. These people are eagerly expecting immediate water source to fulfill their drinking water needs.
	b.Ahathikulam	Common well (not used). Individuals own dug well	Peoples who are living near lagoon area (around 10 families) couldn't get the water from their wells, because of the milky appearance of well water. They access their drinking water from neighboring houses. Most of the other wells have good water, which they can use for all the purposes.
02	Periya Panankadu	Dug wells (2 common wells also)	There are 450 households in this area. All the houses have dug well which are used for all the purposes. Few wells around lagoon area have salty water.
03	Sinna Panankadu	Dug wells	Most wells have good water for all the purposes. Except few of them (about 10 families) can't use their wells, because of their salty taste.
04	Kolavil-01	Dug wells	Wells have good water. Few wells are salty near lagoon area.
05	Kolavil-02	Dug wells	Most wells have good water. But considerable amount of wells have yellow colour appearance. These households access their water from neighboring houses.
06	Kolavil-03	Dug wells	Wells have good water.

02) Thirukkivil DS division

No.	Village / GN division	Existing water sources	Comments
01	Thirukkivil-03	Common well, tube well	Around 60 families live in this area. Households are served by common wells which are salty and dry during dry season. Out of the 3 tube wells present one has salty water and no water in the other 2 tube wells.
02	Sagamam a) Kudinilam	Dug well (03)	Around 75 families are living here. Only one well is used other two are not. Predeshya Sabha provides water for drinking purposes, but not enough.
	b) Mandana	Dug well, Tube well	Around 350 households. Area has 3 common dug wells, but not used for drinking purpose. 3 tube wells used for drinking purpose, but 1 tube well become salty during dry season. Normally peoples walk about 500m to access their water. NWS&DB are planning to supply pipe water in the future, don't know when it is possible.
03	Thambiluvil-02W	Dug well	Area has wells. Good for drinking purposes.
04	Thampattai-01	Dug well	About 100 families are living here. Area has wells, but not used for drinking purpose. Because of yellow colour appearance. Peoples walk (about 1 mile) to get water from neighboring house.
05	Thampattai-02	Dug well	Peoples get their water from their own well. But some wells have salty and yellow colour appearance. Well water dry during dry season, but enough for the usage.

Recommendation:

Alayadivembu DS division

Theevukkalai and Kolavil-02 are in most need of water for drinking purpose. Since ground water source is not suitable rain water harvesting from roof is recommended for these places

Thirukkivil DS division

Since there is no good quality ground water it is recommended to provide water for drinking purpose through rain water harvesting for the following villages in this DS division.

- a) Mandana
- b) Kudinilam
- c) Thirukkivil-03
- d) Thampattai-01

Annex 2: List of Participants at Awareness Program

WARENECO PROGRAM ON RAIN WATER HARVESTING AMPARA DISTRICT

Place : Kolaru.

Date : 09-09-2008

Project : TUCN

No.	Name	Address	Signature
01	சி. சிவசுந்தரன்	வி. கவு. (18) செங்கை கிராமம் - 01 மைல் (தி. சி.)	S. Jeyaraj
02	தி. சிவசுந்தரன்	வி. கவு. (20) செங்கை கிராமம் - 01 மைல் (தி. சி.)	N. Muthu
03	சி. சிவசுந்தரன்	வி. கவு. (19)	சி. சிவசுந்தரன்
04	சி. சிவசுந்தரன்	வி. கவு. (17)	சி. சிவசுந்தரன்
05	சி. சிவசுந்தரன்	11 05	S. Laxma Karthi
06	ப. பஞ்சவர்ணம்	11 23	P. Panthar
07	சி. சிவசுந்தரன்	11 24	B. Sankar
08	சி. சிவசுந்தரன்	11 13	சி. சிவசுந்தரன்
09	சி. சிவசுந்தரன்	11 12	சி. சிவசுந்தரன்
10	சி. சிவசுந்தரன்	11 21	சி. சிவசுந்தரன்
11	சி. சிவசுந்தரன்	11 14	சி. சிவசுந்தரன்
12	சி. சிவசுந்தரன்	25	சி. சிவசுந்தரன்
13	சி. சிவசுந்தரன்	16	சி. சிவசுந்தரன்
14	சி. சிவசுந்தரன்	27	சி. சிவசுந்தரன்
15	சி. சிவசுந்தரன்	26	சி. சிவசுந்தரன்
16	சி. சிவசுந்தரன்	32	P. Jay
17	சி. சிவசுந்தரன்	36	சி. சிவசுந்தரன்
18	சி. சிவசுந்தரன்	1	P. Sankar

LRWHF

9

members :

[illegible]

Annex 3: List of Beneficiaries



LANKA RAIN WATER HARVESTING FORUM- POTTUVIL

IUCN-CIDA- AMPARA PROJECT

After assessing the villages in Pottuvil in agreement with IUCN RWH systems were constructed for the resettlement area, **Theevukkalai** (Kolavil-01).

Started date 18/09/2008

Finished date 19/10/2008

Beneficiary list for rain water harvesting tank construction

Serial number	Tank number	Name	Address
01	19/2008	T.Benjamin	Resettlement area, Kolavil-01
02	21/2008	S.Paskaran	Resettlement area, Kolavil-01
03	23/2008	R.Niksanselar	Resettlement area, Kolavil-01
04	22/2008	Annanesam	Resettlement area, Kolavil-01
05	25/2008	U.Yasotharathevi	Resettlement area, Kolavil-01
06	24/2008	C.Umasangar	Resettlement area, Kolavil-01
07	27/2008	E.Jesuraj	Resettlement area, Kolavil-01
08	26/2008	G.Kirupairaja	Resettlement area, Kolavil-01
09	28/2008	K.Alagaiya	Resettlement area, Kolavil-01
10	31/2008	K.Velan	Resettlement area, Kolavil-01
11	29/2008	J.Suganthi	Resettlement area, Kolavil-01
12	06/2008	T.Pumany	Resettlement area, Kolavil-01
13	36/2008	S.Luxmakanth	Resettlement area, Kolavil-01
14	38/2008	R.Gowry	Resettlement area, Kolavil-01
15	39/2008	G.Indrakumary	Resettlement area, Kolavil-01
16	40/2008	N.Anjalai	Resettlement area, Kolavil-01
17	37/2008	N.Selvamalar	Resettlement area, Kolavil-01
18	33/2008	K.Uthayalatha	Resettlement area, Kolavil-01
19	18/2008	N.Pavalamohan	Resettlement area, Kolavil-01
20	15/2008	S.Kalamani	Resettlement area, Kolavil-01
21	12/2008	K.Manoharan	Resettlement area, Kolavil-01
22	14/2008	A.Vimalrani	Resettlement area, Kolavil-01
23	16/2008	Jeyaraj	Resettlement area, Kolavil-01
24	17/2008	R.Santhanamatha	Resettlement area, Kolavil-01
25	10/2008	G.Perinpanathan	Resettlement area, Kolavil-01
26	13/2008	T.Suhunavathy	Resettlement area, Kolavil-01
27	09/2008	K.Kamalavathy	Resettlement area, Kolavil-01
28	08/2008	S.Vimalarasa	Resettlement area, Kolavil-01
29	05/2008	E.Rahuthasan	Resettlement area, Kolavil-01
30	03/2008	T.Mahendran	Resettlement area, Kolavil-01
31	04/2008	A.Amalthas	Resettlement area, Kolavil-01
32	01/2008	T.Vadivel	Resettlement area, Kolavil-01
33	07/2008	A.mariyasusai	Resettlement area, Kolavil-01
34	02/2008	T.Kaneshamoorthy	Resettlement area, Kolavil-01
35	30/2008	S.Veerammah	Resettlement area, Kolavil-01
36	11/2008	K.Kremraj	Resettlement area, Kolavil-01
37	35/2008	E.Maheswary	Resettlement area, Kolavil-01
38	32/2008	K.Selvanesham	Resettlement area, Kolavil-01
39	20/2008	P.Pathmanathan	Resettlement area, Kolavil-01
40	34/2008	I.Rajamanickam	Resettlement area, Kolavil-01

Annex 4: List of Participants at O&M Training

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O & M

POST TSUNAMI RESTROTION PROJECT IUCN -CIDA AMPARA PROJECT

2nd awareness programme on Rain Water Harvesting
Attendance sheet

Venue : Kolavil preschool
Date : 06.11.2008
Time : 10.00am

No	Name	Signature
1	திருமதி: ரஜனி ஸ்ரீமதாஸ்	M. Rajani
2	திருமதி: சுவாந்தி செல்வசுந்தரன்	
3	திருமதி: ராஜ்ஜம் வைபரத்தி	T. RAJANATHI
4	திருமதி: .	V. சந்திரசேகர்
5	திருமதி: நம்மாநாதி: ரவத்தி	V. நம்மாநாதி
6	திருமதி: ரிசீலாஸ் ரவத்தி	N. SELVAPATHI
7	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
8	திருமதி: ரிசீலாஸ் ரவத்தி	K. ரவத்தி
9	திருமதி: ரிசீலாஸ் ரவத்தி	R. ரவத்தி
10	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
11	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
12	R. ரவத்தி	R. ரவத்தி
13	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
14	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
15	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
16	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
17	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
18	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
19	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
20	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
21	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
22	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
23	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
24	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
25	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
26	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி
27	திருமதி: ரிசீலாஸ் ரவத்தி	சு. ரவத்தி

08M

28	தி.வி.சு.பாண்டி	தி.வி.சு.பாண்டி
29	சு.வி.சு.பாண்டி	சு.வி.சு.பாண்டி
30	சு.வி.சு.பாண்டி	சு.வி.சு.பாண்டி
31	சு.வி.சு.பாண்டி	சு.வி.சு.பாண்டி
32	சு.வி.சு.பாண்டி	சு.வி.சு.பாண்டி
33	N. L. S. S.	N. L. S. S.
34	S. S. S. S.	S. S. S. S.
35	S. S. S. S.	S. S. S. S.
36	S. S. S. S.	S. S. S. S.
37	S. S. S. S.	S. S. S. S.
38	S. S. S. S.	S. S. S. S.
39	S. S. S. S.	S. S. S. S.
40	S. S. S. S.	S. S. S. S.
41	V. Thepakkan (LRWHF)	V. Thepakkan (LRWHF)
42	S. Nelson	S. Nelson

Distribution of Compost bins: and
Rain Water tank filter distribution.

Date: 13.11.2008

Time: 2.30 p.m.

Venue: KOLAVIL -1, Pre-School, ALAYADU W. EMBU.

No.	Name	Name of organization	Signature
1	Mrs. K. Anasudhama	Pradhyaksha	[Signature]
2	K. Pasupathi	R.R.F	[Signature]
3	[Signature]	[Signature]	[Signature]
4	[Signature]		M. Jayaram
5	[Signature]		[Signature]
6	[Signature]	[Signature]	[Signature]
7	[Signature]		[Signature]
8	[Signature]		[Signature]
9	[Signature]		[Signature]
10	[Signature]		[Signature]
11	[Signature]		[Signature]
12	[Signature]		[Signature]
13	[Signature]		[Signature]
14	[Signature]		[Signature]
15	[Signature]		[Signature]
16	[Signature]		[Signature]
17	[Signature]		[Signature]
18	[Signature]		[Signature]
19	[Signature]		[Signature]
20	[Signature]		[Signature]

Meeting on
Distribution of Compost bins: and
Rain water tank Filter distribution.

Date: 13.11.2008

Time: 2.30 pm

Venue: KOLAVIL-1, Pre-School, ALAYADINETA

No.	Name	Name of organization	Signature
1	S. Sankaran	Agamwathy S. Sankaran	[Signature]
2	D. Sankaran	IS. Dr. Dr. Sankaran	[Signature]
3	N. Sankaran		N. Sankaran
4	S. Sankaran		S. Sankaran
5	T. Sankaran		T. Sankaran
6	S. Sankaran		
7	S. Sankaran		S. Sankaran
8	T. Sankaran		T. Sankaran
9	M. Sankaran		M. Sankaran
10	R. Sankaran		R. Sankaran
11	S. Sankaran		S. Sankaran
12	S. Sankaran		S. Sankaran
13	S. Sankaran		S. Sankaran
14	S. Sankaran		S. Sankaran
15	R. Ravi		R. Ravi
16	S. Suganthi		S. Suganthi
17	S. Suganthi		S. Suganthi
18	K. Sankaran		K. Sankaran
19	S. Sankaran		S. Sankaran
20	S. Sankaran	W. Sankaran	N. Sankaran

**Distribution of Compost bins: and
Rain water harvesting tank filter distribution**

Date: 13.11.2008

Time: 2.20 P.M.

Venue: Preschool, Kolavil-01

No.	Name	Name of organization	Signature
1	G. Sivasubramanian		G. Sivasubramanian
2	V. Hari Gauthari Devi		V. Hari Gauthari Devi
3	B. Sivasubramanian		B. Sivasubramanian
4	B. Sivasubramanian		B. Sivasubramanian
5	B. Sivasubramanian		B. Sivasubramanian
6			
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Annex 6. Survey Format to Assess Proper Operation and Maintenance of the Tanks

Annex 7: List of Trained Masons in the Area

Name	Address
K. Nadesapillai	World Vision road, 3 rd Cross Lane, Panankadu, Akkaraipattu.
M. Z. M. Munawwar	36A, Boundary road, Thkkiya Nagar, Attalachchenai 16
K. P. Suresh	97 A, Vachikuda Prajamandala Road, Akkaraipattu 07.
K. P. Dinesh	Ghandi Sanasamuga Road, Akkaraipattu 07.
A. Rasa	97A, Vachikuda Prajamandala Road, Akkarapattu 07.
Kurusamy Kunarajn	p/9 Kundumadu, Pottuvil

Pictures from the Project



Beneficiaries of RWH System



O&M Training to beneficiaries



Handling over of Household filters to beneficiaries by Divisional Secretary Pottuvil