

REPORT
AQUA PROGRAM 2016
PROMOTION OF ROOF RAINWATER
HARVESTING
AMONG 7 FAMILIES LIVING IN
MAHAKACHCHAKODIYA,VAVUNIYA,
SRI LANKA

Date: 14th June 2016



Submitted by
Lanka Rain Water Harvesting Forum

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| Name of the organization: Lanka Rain Water Harvesting Forum |
| Title of the project / activity: Promotion of Roof Rainwater Harvesting among 7 families living in Mahakachchakodiya, Vavuniya, Sri Lanka |
| Actual location of the project or activity: Mahakachchakodiya, Vavuniya |
| Project period: February 2016 – May 2016 |
| Number of beneficiaries: |
| 07 households, 33 members |

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| Initial meeting with the candidates of the beneficiaries: |
| <p>Initial meeting held with the community on the September 2015. Out of the beneficiaries who applied for RWH system, 7 families were selected according to the selection criteria (below) . Then each household was visited by Mr Rudra Wijeratnam, Field Co-ordinator, Lanka Rain Water Harvesting Forum and details on the request forms were checked.</p> <p>Further meeting was held on the 9th October 2015, explain about the selection process. At this meeting more than 60 community members participated and requested for more Rain water harvesting systems.</p> |
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| Community Meetign 9 th October 2015, Mahakatchchakody Community Center |
| Selecting 7 beneficiaries: |
| <p>Criteria: The criteria for selection on the basis of Distance to drinking water source (above 250 m), Women fetching water, Kidney Disease patients, Number of children in the household, willingness to support and income level.</p> |



List of 7 beneficiaries Names

1. B Malhami
2. G Dharmasena
3. S. Gunawathi
4. K Dhanapala
5. K.B. Chithrasena
6. Dinesha Priyadharshani/T.B. Upali Anura Bandara
7. R. Kalyani Wathi

Purchasing materials:

Most materials were purchased locally. Sand and valance board for hanging the gutters and unskilled labour during construction were provided by the beneficiaries

Constructing 7 rain water harvesting systems: RWH systems were constructed during October – November 2015 Period.



Beneficiary B Malhami & grand children



Beneficiary G Dharmasena



Beneficiary S. Gunawathi



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|  |  |
| Beneficiary K.B. Chithrasena | Beneficiary K Dhanapala |
|  |  |
| Beneficiary Dinesha Priyadharshani | Beneficiary Kalyani Wathi |

Training on 1 mason: Masons Name : K .G. M .Punchibanda (Tp: 0773717356) from Mahakatchchkody village was trained on construction of RWH. Training was conducted by master mason Shantha Kumar

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|  |  |
| Marking the base of the tank | Placing the pipes |
|  |  |
| Laying the pipes | Laying the pipes with beneficiary |



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| | support |
|  |  |
| Constructing the base 1 | Constructing the base 2 |
|  |  |
| Constructing the base 3 | Fixing the chicken mesh with beneficiary support |
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| Fixing the chicken mesh | Plastering the outside of the tank |
|  | |
| Fixing the filter | |
| Training households on Operation and Maintenance: | |
| Training program on Operation and Maintenance of Rain water harvesting | |



system was conducted to beneficiary households on the 22nd December 2015 at the location of the household constructed with RWH system at Mahakatchchakody village by Mr Rudra Wijeratnam, Field Co-ordinator, Lanka Rain Water Harvesting Forum. It was attended by 7 participants representing each households

Training program include

- How and when to clean the roof
- How and when to clean the gutters
- How to construct the filters and when to clean it
- How to operate the first flush
- How and when to clean the tank
- To keep the tap and tap stand in good condition
- How to check for leaks in the tank



| Interview: | | | | |
|---|-------------------|--|--|--|
| Voices of beneficiaries of the project, and/or JWF. | | | | |
| Name | Contact No | Socially benefits | Economic benefits | Health benefits |
| B.Malhami | 710936996 | This RWHS made my parents life easier, I work in town so now I don't need to get worried thinking is there enough drinking water at my home for drinking since RWHS is at the door step of my home. | We use to spend LKR 1000 per month to purchase RO plant water, now money is saved and we use that money to buy my father's medicine. | My father is a CKDu patient, rain water is a heavenly gift for his health. |
| G.Dharmase na | 776439484 | I use to walk 1/2 km and it takes 30 - 45 minutes every day to fetch water, which was a difficult task since I am CKDu patient. Now time is saved since tank is at my door step, I use the saved time for my house work. | Now I do home gardening, I have planted chilly plants near the RWHS. | I am CKDu patient , therefore I use now rain water for drinking purpose which benefits my health |



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|-------------------|---------------|---|--|--|
| K.Chithrase na | 77557752 3 | To get water I use to ride the bicycle 2 km and it take 1/2 hrs, it was very hard and difficult task. Now I am very happy since I got rid of that hard period. | The time I saved from fetching water is used for paddy cultivation. I rented 5 aches paddy. | I am CKDu patient, Now after eating my meals I take my mug to the RWHS tap and drink water. |
| K.Dhanapala | 77729287 7 | To get filtered water I use to ride my motor bicycle 2 km which takes 15 minutes. Our daily requirement of water was 10 L, 1 L is LKR 30, and therefore I use to spend LKR 300 per day. Now money and petrol cost is saved. Which is used for my house hold benefit | The time saved from fetching water is now used for my paddy cultivation. Now I don't have any worries in mind thinking of water fetching for household activities. Since RWHS is at my doorstep which makes my life more comfort and it is a great blessing. | I am CKDu patient, level is 0.7. I use to drink R O plant filter water, now the filter is out of service therefore I drink rain water. Which is a blessing for my health and house |



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|---------------------------------|-----------|--|---|--|
| M.Dinesha Piyadharas hani | 776522345 | I use to fetch water from my neighbors well which is 50 m walking distance and daily I go to fetch water 5- 6 times it is approximately 30 minutes per day. Now time is saved and I don't get tired all this benefit is because RWHS, now I do home gardening, i have grown long beans, ladies fingers and red kidney beans. The plants are watered by the draining water of RWHS. RWHS is a great asset for my family | I use to spend LKR 1200 per month for my medicine and doctors channeling, now I don't suffer from urine infection therefore I save all the money that spend for medical bills. Now I spend that money for my 2 son's education. | Last year a mobile Clinique came to my son's school, there they tested my urine samples and said that I have urine infection. They advise me to drink rain water or RO treated water. Since that day I start drinking rain water. Initially I use to collect rain water to a thick polythene sheet directed to clay pot. Now I have RWHS which has more capacity to store water and its easy access. Now |
|---------------------------------|-----------|--|---|--|



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| | | | | my urine infection has cured and now i don't take medicine, the best medicine for me was rain water. |
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Expenses:

| Item | Content | Unit cost | Quantity | Amount |
|--------------------------------------|--|-----------|----------|-------------|
| Rain water tank materials | Gutter | 5 | 14 | 70 |
| | PVC fittings | 38 | 7 | 266 |
| | Cement | 7 | 77 | 539 |
| | Mesh | 62 | 9 | 558 |
| | Lid | 20 | 7 | 140 |
| | Misc. (Nails, Bucket, Glue, Transport of materials) | 20 | 7 | 140 |
| | Tile with Logo mark | 3.5 | 7 | 25 |
| | Labour | 62 | 7 | 434 |
| Training | Training mason (1 person) | 9.2 | 10 | 92 |
| | O&M households | 4 | 7 | 28 |
| Co-ordination | Supervision and transport | 50 | 16 | 800 |
| Sub total | | | | 3092 |
| Local contribution | Sand, Valence board, Concrete stone and Unskilled labour | 240 | 7 | 1680 |
| Amount borne by JWF | | | | 3092 |
| Total cost of completing the Project | | | | 4772 |



Comment and request to Japan Water Forum and/or Donor. (If any):

There is a high demand for Rain water harvesting from this community due to high prevalence of Chronic Kidney Disease in the village. Following a meeting of the community on the 9th October 2015, LRWHF has received 51 fresh requests for rain water harvesting system.

