



Nadi Filter Technology Replication for Kenya Africa



Association for Humanitarian Development (AHD)

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1. Introduction to Association for Humanitarian Development (AHD)

Association for Humanitarian Development (AHD) has been actively engaged in the community development activities since 2003. AHD has been striving for bringing Peace, Unity, Justice and Harmony uplift poor rural communities towards sustainable development. AHD introduced Village Development Model (VDM) which consists of 07 different activities & implemented in different districts of Sindh successfully. Nadi filter is also one of VDM model activity AHD has achieved the milestone and supported more than 50080 direct beneficiaries with access to safe and clean drinking water from (2006-2018) in Sindh and Pakistan. AHD has always prioritized to the group of people who are at the below poverty line. AHD Nadi filter & Fuel Efficient Cooking technologies are sustainable in its design, cost effective, innovative and locally adoptable at anywhere in the world.

During 2017-2018 AHD reached some 12,000 families with provision of Nadi filter, FES Cooking stove, women health hygiene, tree plantation, climate change awareness. AHD also doing efforts to spread Nadi filter & FES Cooking stove technologies at National & International level. In this regard AHD & Susan Design Norway join hands to promote Nadi filter in Mozambique and Kenya Africa. AHD looking support from partners & donors for national and international level to reach out on large scale and help poor rural families with innovative & sustainable solutions replication at local level.

AHD next target is to reach 100,000 families with Nadi filter replication at household level till 2023 needs your help and support. We remain thankful to partners, supporters and donors for the unique support and also thankful AHD BoD members, program staff and village volunteers and community based organizations to enable AHD success. Further we are looking your suggestions, recommendations and reviews if any to help AHD to make better our programs and projects for future.

FES stove video 2018: https://youtu.be/k_UZ7mLOqM8

Solar lights Video 2018: <https://youtu.be/uP6feCFYSCo>

AHD Won GSK UK award 2017 <https://youtu.be/9Tcukhbxzm0>

Nadi filter preparation http://www.youtube.com/watch?v=TBvcifeW_NA

Nadi filter welcome by Africa <https://youtu.be/iNc-3E2LB6g>

2. Innovate 4 Water Conference attended by AHD 6-7 Feb 2019 Kisumu

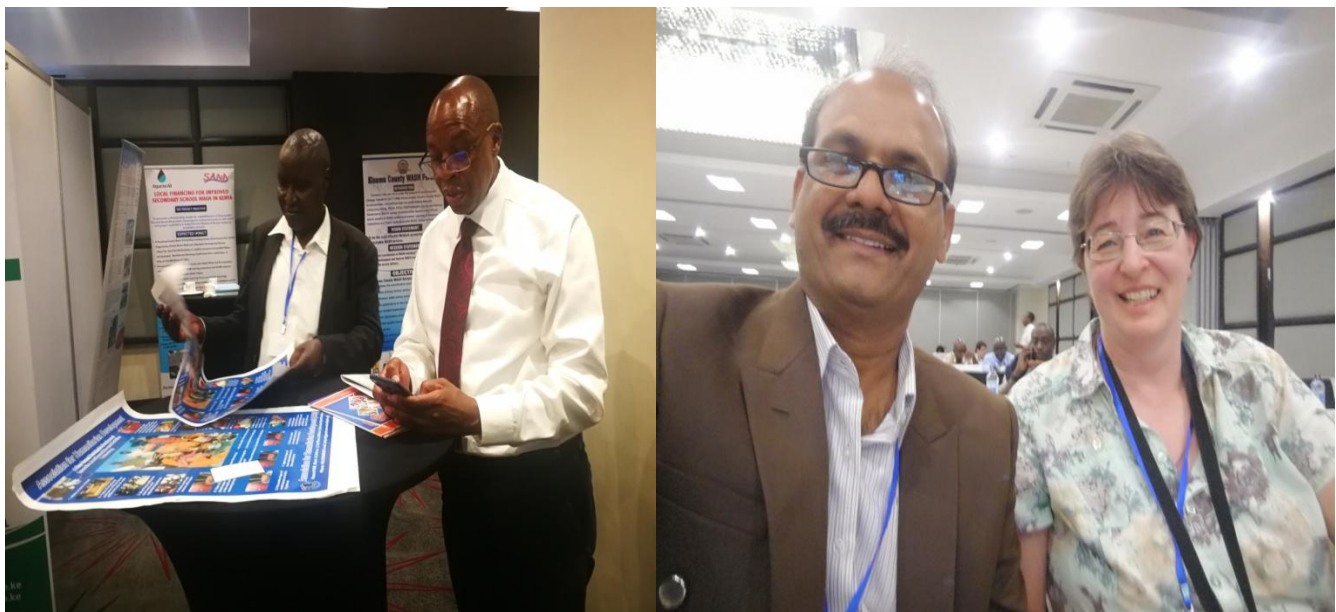
Mr. A. Khurshid Bhatti, CEO of Association for Humanitarian Development attended Innovate 4 Water Kenya Kisumu Conference as a speaker for “Innovative Nadi filter Technology” during 6-7 February 2019. The I4W conference attended by more than 200 humanitarian actors, NGOs and INGOs from all over Kenya and other countries

AHD PPT Presentation at Innovate 4 Water website:

https://docs.wixstatic.com/ugd/2c9167_85305a386bd145a4abb7d8cab25f3da4.pdf



AHD build links with other organization working for humanitarian sector in Kenya



3. AHD Model Nadi filter First Training in Village near Mumusia County Kaka mega

A step towards sustainable development innovative, local based bio-sand Nadi filter technology

Scarcity of clean water is common in this region compelling most of the people around to consume any available water which mostly is contaminated. Very few individuals here can afford clean bottled water. Cases of water borne diseases are very common especially to the women and children not sparing some men too. Due to this severe condition the training was done by Mr. Khurshid Bhatti CEO of association for humanitarian development (AHD) in rural village near Mumusia county Kaka mega.

The training was well received by the Villagers mainly women, village elders and other village leaders and church representatives were also present.

Mr. Khurshid took us through the theory part of making Nadi filter in one of the widow's house for 30 minutes. Questions were raised from different members who anxiously were in need to see the final product of Nadi filter. After the theory, the trainer took the trainee to the field for practical



The local based bio sand Nadi filter consist of

Big vessel/Pot (Nadi)

Small pot (matka)

Small Stones of different sizes

Fine sand.

All these materials are locally available or they can acquire with little strain around the area. Making of Nadi filter does not require technical knowledge and so any person can make it with ease. Through the instructions of Mr. Khurshid the members were able to make themselves Nadi filters. The steps to make the filter were easy to follow.

Nadi filter 2nd training organized in County Kisumu slum area

The Nadi filter 2nd training by AHD was organized in county kisumu slum area for access of safe and clean drinking water among community. This innovation of AHD Nadi filter Unit contributed in safe drinking water crises to the people. The community benefited with this innovation in terms access to safe and clean drinking water facilities at their door step, cheap and reliable source of clean water, protected from water borne diseases and even its replicable and easy to design and use at all level.

The simple and indigenous solution for clean water is a hundred percent local based technology which can be promoted at anywhere in the world on large scale. This innovation has been contributing to meet the community's needs and overcome the development challenges in terms access to safe and clean and drinking water facilities at grass roots level.

The training was fine received by the villagers especially women. Mr. Khurshid Bhatti trained the community activist to make the Nadi filter unit at household level. The training improved the community capacity and enhance their ability CBOs are formed to ensure the sustainability of Nadi filter and engage the community in trainings with full participation.

After completion of training all the members present were surprised to see clean water coming from the Nadi filter. Most of the members promised that they will make an effort to get their own Nadi filters and crate awareness to others. This is clear indication that the community will be free from water borne diseases in the near future when everyone will be using local based bio sand filter technology.



5. Nadi filter 3rd Training conducted at UMANDE Trust in slum area Kiberia County Nairobi

UMANDE trust is working in slum area Kiberia, the Nadi filter Training of Trainers conducted on 12th Feb, 2019. AHD organized Nadi filter training for UMANDE staff, about 20 staff participated in Nadi filter training and one Model Nadi filter unit was installed and in use now by the UMANDE trust staff and volunteers. The lead staff Ms. Benazir organized training and ensure active participation of the staff to learn Nadi filter technology.

UMANDE trust working in slum area communities & helping slum residential communities with awareness promotion on health, water and sanitation, UMANDE field office was also in slum area of Kiberia. Mr. Khurshid Bhatti CEO, AHD given training on Nadi filter water unit to the participants. This Nadi filter innovation made with major objective of using limited available resources, particularly commonly used mud pots for water storage (such as; Nadi) in rural household for filtration that could sustained itself, without any external interventions.

This training will show the positive change in near future it proved helpful in terms saving income and improved life style socially and economically. The villagers will able to recognizing the basic issues of water and health. They will be engaged in change process and taking initiatives for the safe and clean drinking water at village level.



6. Field visits of 05 Counties Kajiado, Kiambu, Muranga, Kirinyaga and Nyeri

14th to 15th February 2019

Association of Humanitarian Development (AHD) is one of the humanitarian organizations which have been bringing its share to the realization of SDGs after successfully contributed to the attainment of MDGs among the beneficiaries of its interventions in Asia, particularly in Pakistan.

AHD, led by Mr. A. Khurshid Bhatti, has decided to expand its intervention in Africa, starting with Kenya. It was crucial for Mr. Khurshid to take advance of the Kisumu Water Conference, to visit some counties in Kenya, where Nadi Water Filter would be most helpful in offering clean drinking water to rural community.

The Visit details are:-

On Thursday 14, February 2019, Mr. Khurshid travelled from Nairobi County to Kajiado County. He visited a family in Kiserian.

<https://www.google.co.ke/maps/dir/Adams+Arcade+Total,+Ngong+Road,+Nairobi/Kiserian+Market>,

One of the main town of Kajiado county. On the way, he passed via Ngong forest and ngong town. On his way back, he visited Mrs. King Family in Matasia

<https://www.google.com/maps/search/matasia+town/@1.4268736,36.6224328,12z/data=!3m1!4b1>

On Friday 15, February 2019, the urge to serve many rural communities, Mr. Bhatti crossed 4 counties from Nairobi: Kiambu, Muranga, Kirinyaga and Nyeri.

<https://www.google.com/maps/dir/Adams+Arcade+Total,+Ngong+Road,+Nairobi/Karatina/@->

He had a chance to visit a coffee plantation in Makuyu (Muranga County) and a tea plantation in Kerugoya (Kirinyaga County). In each county, he had a chat with local community to get an idea on their potable water needs. It was clear that Nadi Water Filter is needed amongst residents of counties, which Mr. Bhatti visited.



7. Cost of Nadi filter in local market

AHD installed some 05 models in 05 counties but its prices were consecutively higher than as in Pakistan, the present prices of Nadi filter unit one complete model was 6,000 KSH in Kakameag, and 5,000 in Nairobi.

AHD looking to reduce one unit of Nadi filter prices to 1,000 to 1,500 KSH in Kenya, in this regard AHD working to find local mud pot makers in rural areas that can help and made one unit of Nadi filter in only 1,000 to 1,500 KSH.

AHD looking support and partnership at initial stage to establish Warehouse and office in one of rural county and than trained local mud pot makers in all counties of Kenya where people drinking canal water, rain stored water or taped water drinking contaminated water.

AHD appointed 02 staff one in Nairobi and one in Kakamega, whom working on it, the timely support will help us to speed up the process of finding mud pot makers in poor and different counties and trained local mud pot makers.

AHD once establish its warehouse and trained local mud pot makers, the price of one Nadi filter unit will be 1,500 to 2,000 KSH in all over Kenya

8. Future Planning of AHD Nadi filter for Kenya

189 World leaders signed in September 2000 a Declaration adopting the Millennium Development Goals (MDGs) with 2015 being a target year for achieving a set of eight measurable goals. MDGs balance sheet in 2015 had shown that there was mixed fortune as countries and regions in the world had each one different levels of expected attainment.

The question in 2015 was: 'we are in 2015, then what?'. Hence the world redirected its effort, building on the MDGs, to a new set of goals, the Sustainable Development Goals (SDGs).



The attainment of the goals, be it MDGs or SDGs, requires community commitment to and ownership of the process and activities to transform the world. Local and international organizations, governments and individual stakeholders strive today to achieving the SDGs. Association of Humanitarian Development (AHD) is one of the humanitarian organization, which has been bringing its share to the realization of SDGs after successfully contributed to the attainment of MDGs among the beneficiaries of its interventions in Asia, particularly in Pakistan.

AHD, led by Mr. Kurdish Bhatti, has decided to expand its intervention in Africa, starting with Kenya. It was crucial for Mr. Bhatti to take advance of the Kisumu Water Conference, to visit some counties in Kenya, where Nadi Water Filter would be most helpful in offering clean drinking water to rural community, hence contributing to more than one SDGS, to name but a few:

- SDG 1: End poverty in all its forms everywhere
- SDG 3: Ensure healthy lives and promote well-being for all at all ages
- SDF 6: Ensure availability and sustainable management of water and sanitation for all

The Replication of AHD Model Nadi filter water technology is the challenge to reach out most deserving & rural communities in Kenya. To overcome the challenges of access to safe and clean drinking water in Kenya, AHD needs support, cooperation from National & International organizations to help AHD in replication of Nadi filter technology.

9. AHD Nadi filter water technology video links

Nadi filter welcome by Kisumu County women

<https://youtu.be/iNc-3E2LB6g>

Nadi filter in rural Sindh Pakistan village communities

<https://youtu.be/bdLjSxo8k-0>

A Video by GSK – Save the Children UK for Award

<https://youtu.be/9Tcukhbxzm0>

AHD Nadi filter main video making process in detail

http://www.youtube.com/watch?v=TBvclfeW_NA

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ASSOCIATION FOR HUMANITARIAN DEVELOPMENT (AHD)
BIOSAND NADI FILTER

1. Make a Hole in Nadi
2. Take 40 kg sand and pass it form three different size of nets
3. Buy three different size nets and separate big stones first
4. Wash sand and stones with water
5. Take a 2.5 feet Plastic pipe and fit it in the nadi with Connect put a big layer of big stones around the pipe
6. Put another layer of small stones on to the big stones
7. Again put a layer of bean size stones on to the small stones
8. Now put a small bean size stones on to bean size stones
9. Take sand and stone by medium size net and wash it and finally put a thin layer of this washed sand on stones
10. Take a 3 inch big Nail and turn it
11. Made on small hole in the bottom Side of Matka
12. Put Matka on Nadi and tie it rope
13. Nadi in which you want to Stone water cover the mouth and cover pipe mouth with clean and dry cloth
14. In First three weeks the good bacteria will increase as much, then they will eat all the bad bacteria, that's why water will come out safe & clean.

For the Water Filter Training
For the method of making filter or training staff
For the Copies of chart (full of pictures)
For having material of making Nadi
Follow the steps of this banner or Contact AHD +92 22 3860880

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