



## APPLICATION BULLETIN BANGLADESH 2007

On November 15 2007 a storm formed in the central Bay of Bengal, and quickly strengthened to reach peak sustained winds of 215 km/h (135 mp/h). The storm eventually made landfall near Bangladesh on November 15. The storm caused large-scale evacuations in Bangladesh. So far, 3,447 deaths have been blamed on the storm, with that number expected to rise. Cyclone Sidr comes after months of repeated floods resulting from one of the worst monsoon seasons that Bangladesh has experienced in years.

The SkyJuice Foundation in conjunction with Siemens Bangladesh, Siemens AG and the Bangladeshi Army have deployed 20 SkyHydrant water filtration units into the cyclone devastated area. After a huge effort by many persons involved, all the SkyHydrants have now been released into the Sundarbans (the largest mangrove delta in the world) and the centre of destruction and calamity from Cyclone Sidr.

The SkyHydrants are accompanied by squads of newly trained Bangladesh army engineers who journeyed by army boats into this very remote area to set up water purification plants in locations where water is an absolute critical issue at present.

As there is no power available in these regions, hand pumps have been supplied with the deployments together with hosing, taps, fittings, portable tanks and the SkyHydrant water filters. Tank stands are not a problem as with mass destruction there is no shortage of uprooted trees to build support structures.

The hand pumps will supply over 25 litres per minute (1500 litres per hour), they are easy to operate and there are plenty of willing hands for water pumping purposes. With all the SkyHydrants deployed it is expected that over two hundred thousand litres of fresh drinking water will be produced daily for people currently drinking out of polluted ponds where water borne illness is causing death and disease.

During training of the army in Barisal (on the edge of the Sundarbans), pumping was undertaken from a polluted pond where drinking water was easily produced in high volume. The army was very impressed that such a simple operation could easily produce such large volumes of drinking water. The army will keep track of the location of the all the SkyHydrants and will supply co-ordinate details of deployment.

This has now been a very successful operation and all involved have been very impressed with the capability and simple operation of the SkyHydrant .

There will be on further installation in Dhaka in a slum area where the community currently has to purchase drinking water. Evaluation of the area is currently being undertaken and arrangements are being made for installation of the SkyHydrant water filtration unit.



Photo BBC News Bangladesh floods



Impoverished area of Dhaka



Instructing Bangladesh army on SkyHydrant operation & maintenance



Contaminated water turned into safe drinking water after filtration through SkyHydrant