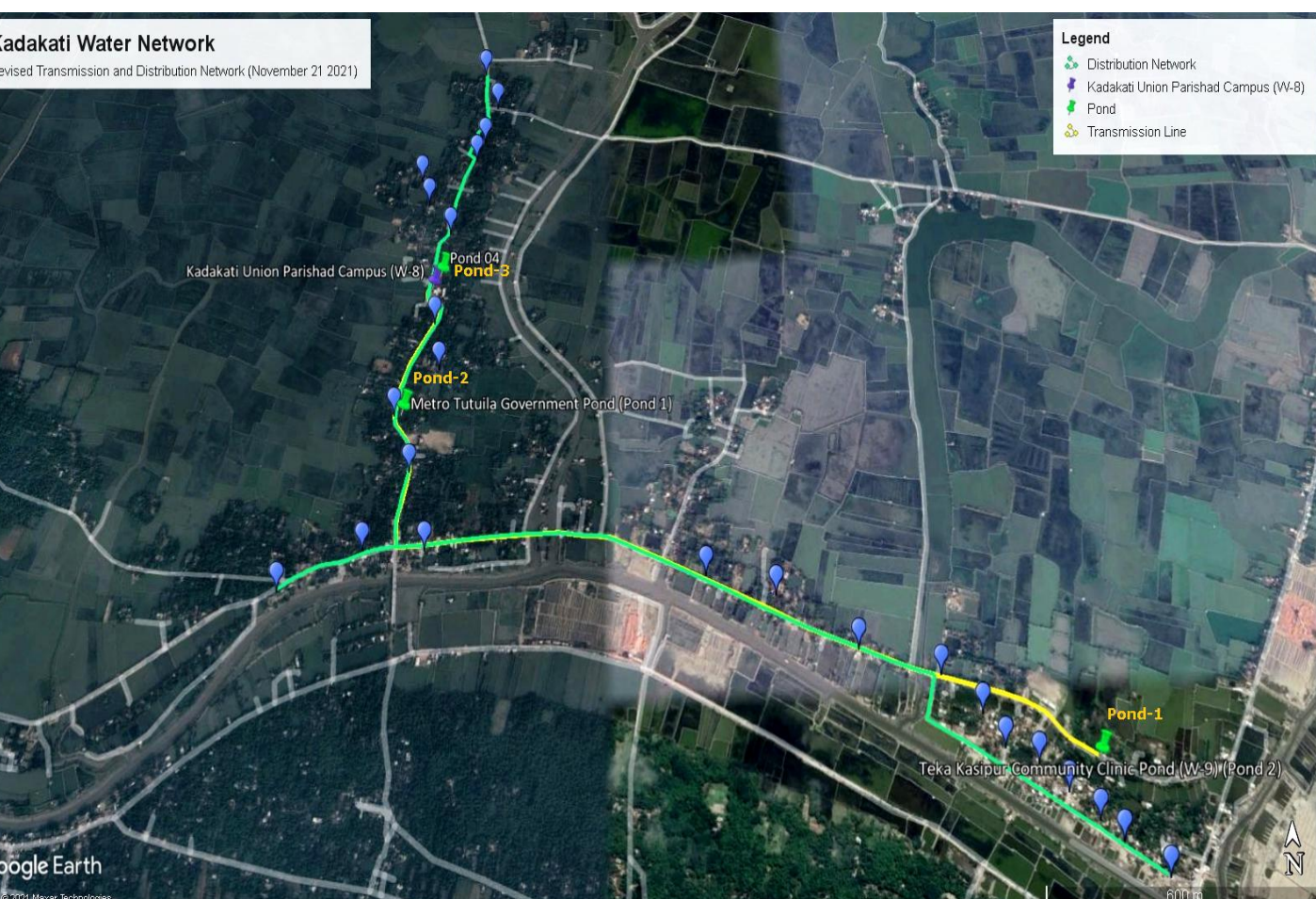


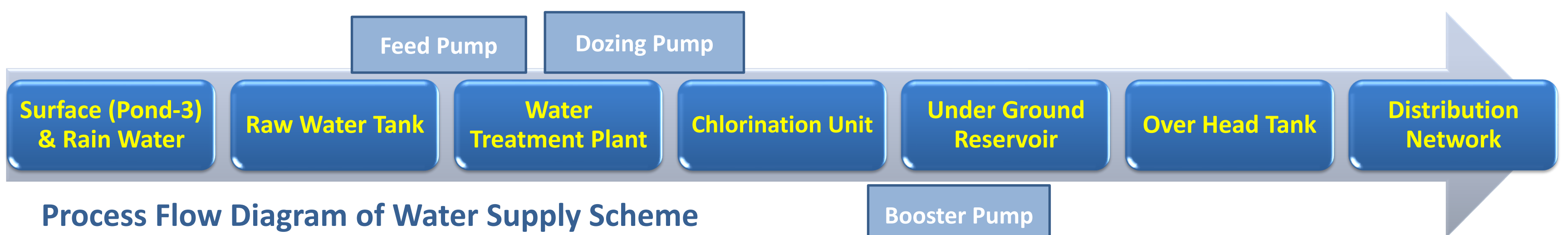
# Source Combination for Safe Drinking Water Supply through Pipe Water System in Costal Areas of Bangladesh

## GoB-UNICEF Arsenic Safe Union Project

**Introduction:** Every year many districts in climate vulnerable costal areas of Bangladesh face drinking water scarcity continuously and millions of people affected by severe arsenic, saline and drought problem. Kadakati Union, Assasuni Upazila, Satkhira is a hydro- geologically challenging, salinity intruded and severely arsenic affected area where only 23.8% households have access to basic (improved source & ≤30 min. water collection time) drinking water service. There are no surface water and fresh water ponds as required to meet the drinking water demand of the target households, thus rainwater added in the system from the rooftop of union parishad. Rainwater also helping to reduce saline intensity of supply water from those ponds in dry season. To address the safe drinking water challenges, pond and rainwater blended Pipe Water may a new hope of drinking water supply provision in coastal Bangladesh.



**Problem Statement:** In Kadakati Union 93% tube-well are Arsenic contaminated and 72% Hhs buy drinking water from RO or other entrepreneurs at longer distance. About 61% people are poor & ultra poor in this area. In order to provide drinking water security to local population, pond water based Pipe Water scheme were evaluated by DPHE-UNICEF in Kadakati Union and develop improved & cost effective drinking water supply scheme round the year. The PWSS constructed at the Union Parishad premises at Mitra-tetulia Village combining three ponds and roof top rainwater.



### Scheme Description:

1. Water Source: Surface Water (Ponds) & Rainwater
2. People benefitted: 1,527 vulnerable women, children & men
3. Present Demand: 16,000 L/day
4. Treatment Unit Capacity: 10,000 L/hr
5. Length of Pipeline Network: Approx. 6 Kilometers
6. Number of Tap Points: 27 (Community)
7. Budget: BDT 106,999,73.32
8. LGI Contribution: Donated 5 decimal land
9. Community Contribution: 200 BDT/Household
10. PWSS Central Management Committee headed by Union Chairman
11. Tap point Management by women led committee from users.
12. Monthly Tariff: Approx. 100 Taka/Household/Month



*Mr. Pintu Odhikari villager's of Mitra-tetulia stated 'we never thought that getting drinking water by touching tap only in remote rural Kadakati area, this type of schemes should be developed for other similar parts of Assasuni Upazila as well.'*

