
**CTCN TA: SALINE WATER PURIFICATION TECHNOLOGY AT HOUSEHOLD LEVEL
AND LOW-COST DURABLE HOUSING TECHNOLOGY FOR COASTAL AREAS OF BANGLADESH**

Report on potential pilot site selection

Submitted to:
Climate Technology Centre and Network (CTCN)
United Nations Industrial Development Organization (UNIDO)

By
Green Technology Center
Korea Institute of Civil Engineering and Building Technology
Glory & Tech.

□ Site selection

- As an activity of the technical assistance, the project teams (GTC, KICT and GAT) identified and selected two potential sites for piloting the proposed solutions.
- The sites were selected through consultation with local counterparts, with the analysis of six villages in two districts in consideration with accessibility, population, and climate/environment status as below table.

District	Bagerhat	Satkhira
Upazila/Village	Rampal/Hurka	Shyamnagar/Durgabati
Population	- approx. 2500 people	- approx. 1000 people
Living environment, Accessibility	<ul style="list-style-type: none"> - The village is 20 minutes away from the river. - Vehicles can enter the village center. - The village is housing-dense. - The village has a management office (has a role of receiving government subsidies for natural disasters, etc.). 	<ul style="list-style-type: none"> - The village has sandy soil inside. - The village has a firm ground despite being close to the river (the road is in good shape).
Disaster prevention facilities	- The village has a 50-100cm plinth.	- The village has a 50-100cm plinth and plastic finishing for flood prevention.
Rationale for site selection	<ul style="list-style-type: none"> - The village is approachable from the main road within 15 minutes. - The habitants of the village have a high interest in the improvement of living condition. - The village has construction material production facility nearby. 	<ul style="list-style-type: none"> - The village housings use various forms of construction materials. - The village holds multiple experiences in building houses using bricks, slates and concrete slaves. - The village has a public water purification facility for drinking water.
Expected outcomes	<ul style="list-style-type: none"> - The living condition of the village can improve through the utilization of construction infrastructure nearby. - Considering the accessibility and location of the village, the outcome of the pilot project could be easily monitored, disseminated and showcased to the neighboring villages. 	<ul style="list-style-type: none"> - The village can prepare the rainy season through housing structure alternation. - The durability of the disaster prevention facilities and materials against floods can be monitored and evaluated.

- Durgabati, Satkhira



Village entrance



Signboard of friendship water treatment plant



Reinforcement of the wall under slate roof



House nearby the village entrance (Golpata roof, bamboo wall)



Reinforcement of the wall with Golpata



Masonry structured with bricks and Concrete slab



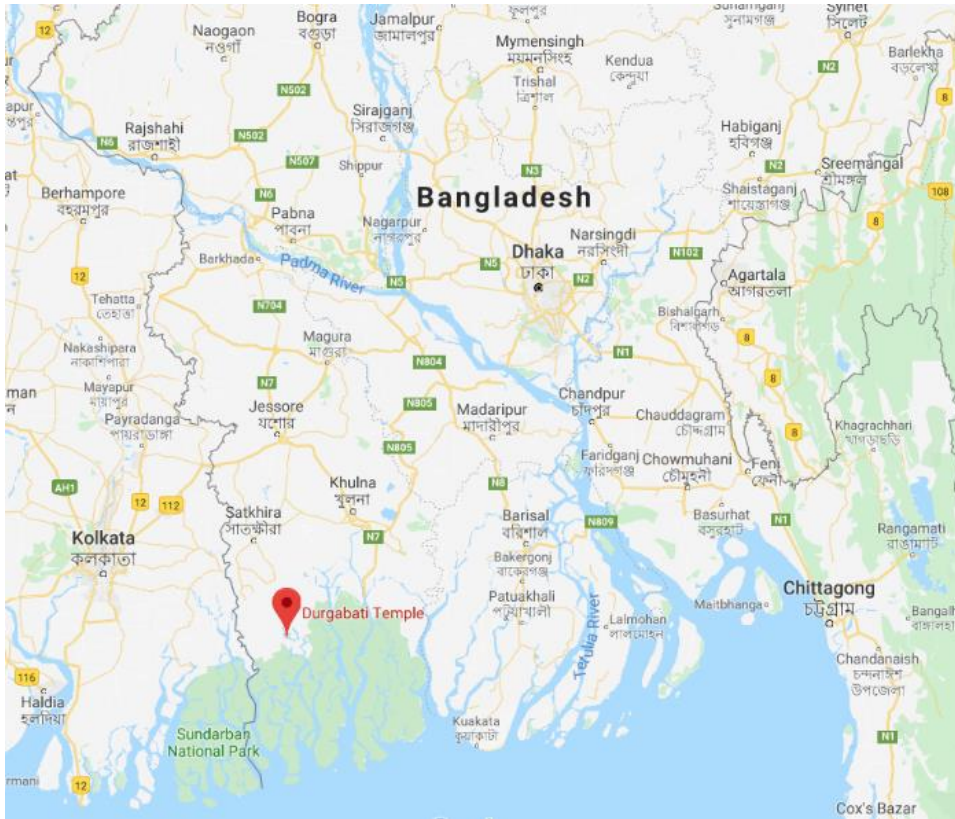
Pillars and wall with red bricks



Roof with galvanized iron sheets



Local community



Map of Durgabati, Satkhira

- Hurka, Bagerhat



Village entrance (vehicle entry possible)



Roof structure with Golpata



Brick factory nearby



Household toilet (separated from main house)



Roof seen from inside



Masonry structured housing



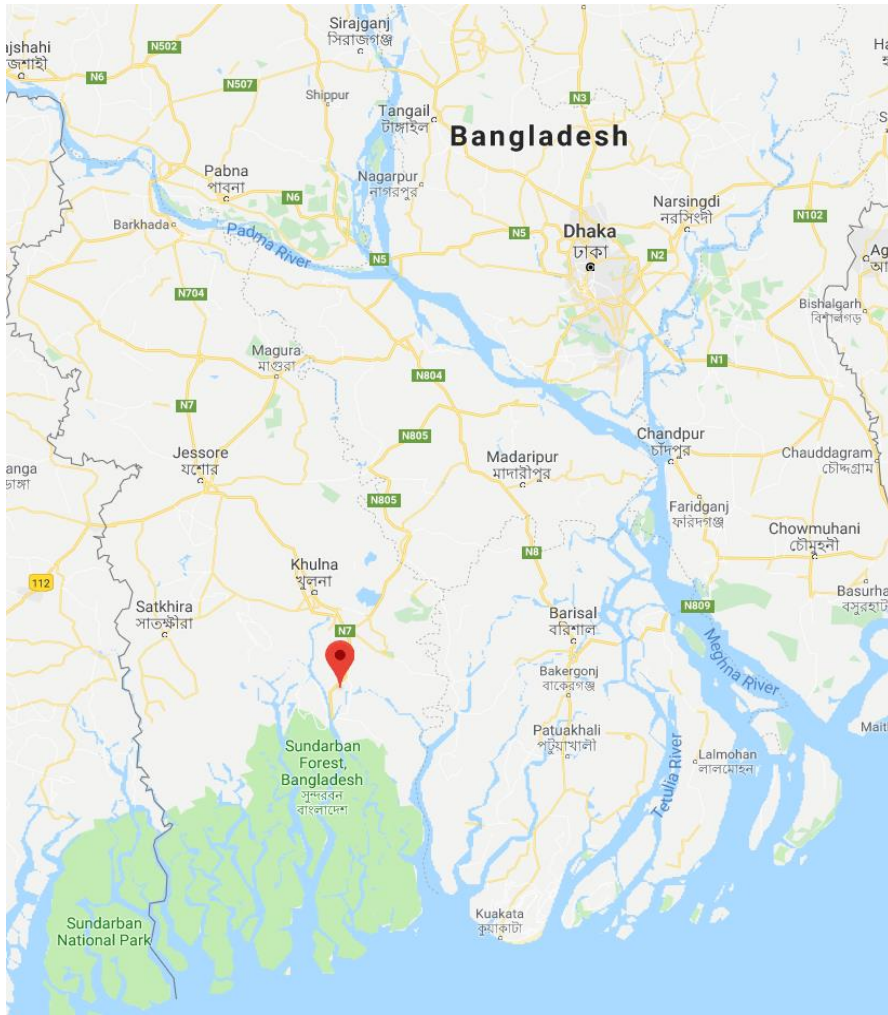
Roof made of asbestos slates



Flood damage prevention (concrete support)



Flood damage prevention (plastic cover)



Map of Hurka, Bagerhat