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ROYAL CENTRE FOR DISEASE CONTROL



Department of Public Health | Ministry of Health | Royal Government of Bhutan

# Drinking Water Quality Monitoring in Bhutan



# National Water Policy Documents

## 1. Water Act of Bhutan, 2011

- Ministry of Health to monitor drinking water quality in urban and rural areas.
- RCDC has been coordinating drinking water quality surveillance.

## 2. Bhutan Water Policy, 2007

## 3. The water regulation of Bhutan, 2014

## 4. Bhutan Drinking Water Quality Standard, 2016



# RCDC Roles and Responsibilities

1. Lead institution and reference laboratory to monitor Drinking Water Quality in the country.
2. Ensure safe drinking water quality in the country
3. Assess compliance with BDWQS, 2016 by service providers
4. Strengthen the capacity to monitor DWQ in the country
5. Establish and manage centralized DWQ database



# Drinking Water Stakeholder





# WATER QUALITY SURVEILLANCE SYSTEM

1. Urban Drinking water Quality Monitoring System
  - Total-34 reporting centers- RCDC, Hospital and BHU I
  - Carried out monthly and reported through WQMIS
  - Report shared with relevant water service provider/school
  - Test Parameter-Physical (pH, Residual chlorine, Turbidity, Color and Odour) and Microbiological (Thermotolerant coliform)



# Surveillance cont...

## 2. Rural Drinking Water Quality Monitoring System

- Training ongoing
- Covered 161 health centers. Target 217 BHUs
- Carried out on bi-annual basis (wet and dry season)
- Reporting made through SMS system or WQMIS
- Report shared with relevant water service provider/school
- Test Parameter-Physical (Color and Odor) and Microbiological (E. Coli using 3M Petrifilm E.Coli)



# WQMIS

- <http://www.rcdc.gov.bt>

**Bhutan Water Quality Monitoring Information System**

Dashboard

Dashboard >

Pema

Dashboard

Urban Routine Records

Rural Routine Records

Other Records

Reports

Feedback

### Test Pending

Search:

Show 10 entries

Record No	Reporting Center	Verification Status
RREC_001139	Damphu Hospital Rural	Pending <input type="button" value="Validate"/>

Showing 1 to 1 of 1 entries

#### Water Quality Monitoring Report for the month of 07,2017

Search:

Show 10 entries

Reporting Center	Test Reported	Followup Action
Gasa BHU I	Not Reported	<input type="button" value="Send Email"/>
Nganglam BHU I	Not Reported	<input type="button" value="Send Email"/>

#### Rural Water Quality Monitoring Report for First Half, 2017

Search:

Show 10 entries

Reporting Center	Colliform Status	Color Status	Odour Status	Test Status	Followup Action
Chokor BHU	0/8	0/8	0/8	Not Reported	<input type="button" value="Send SMS/Email"/>



# Challenges

- Human resource (in terms of number and knowledge)
- Equipment (shortage of fund to procure expensive equipment)
- Institutional Linkage (No linkage with international institute for reference and research)