

# मुभादिं व्याप्य प्राण्य विष्य है। प्रा 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 SURVEILACE 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 Odou) and Microbiological (Thermotolerant coliform)



#### Surveillance cont...

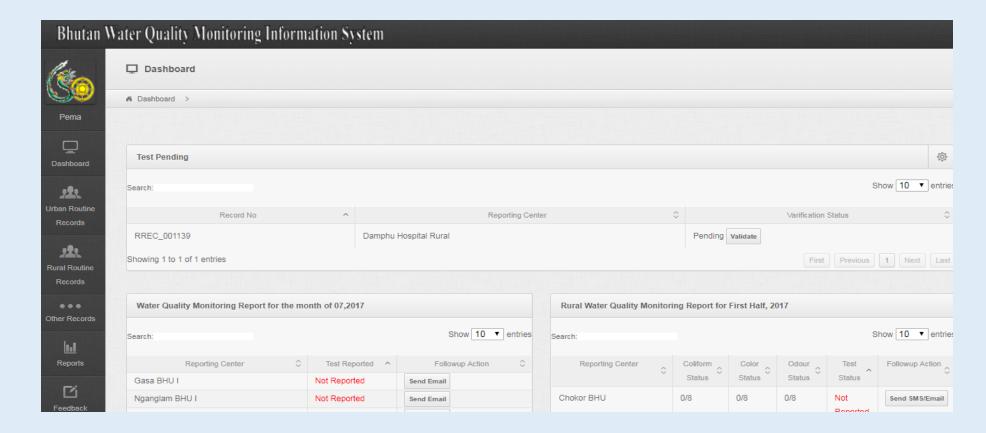
#### 2. Rural Drinking Water Quality Monitoring System

- 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





## **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)