Information on Drinking Water Quality

Vision: An app to provide information on quality of water and nearest water quality testing laboratory in a particular State, District, Block, Panchayat, Village or locality.

Mission: To provide information about quality of water and contaminating elements such as Fluoride, Arsenic, Iron, Salinity and Nitrate present in water of a particular region. Information about nearest water quality testing laboratory can also be retrieved.

Background: Supply of safe drinking water is one of the major problems in India. Most of the water sources of the country are contaminated by sewage overflow, excess fertilizers used in agriculture and industry waste. Access to safe drinking water for the citizens is a main concern for the government as almost 88% of waterborne diseases are caused by contaminated drinking water.

Potential App: With the help of data set available on Data Portal of India (https://data.gov.in/dataset/water-quality-affected-habitations-1st-april-2012) and data available on website of Ministry of Drinking Water and Sanitation (http://indiawater.gov.in/IMISWeb/Reports/WQMSP/rpt_TestSamples.aspx?rep=Y), an application can be developed on the basis of a GIS based map of States, Districts, Blocks, Panchayats, Villages and Localities. This app should be available on web, through IVR for telephones, SMS facility and application for smart phones. This app can be bilingual.

This app can be used to know the quality of drinking water and a nearest water quality testing laboratory in a particular region. Users can select name of their State, District, Block, Panchayat, Village and Locality to get details about water quality contamination, percentage of contaminating elements present in the water, various sources of water in a particular region and nearest water quality testing laboratory. Users can send pin code or name of village through SMS to get the required information.

Audience/ Users: This app can be used by people in urban as well as rural areas. It will be useful not only for people already residing in region but also for people planning to relocate or to visit a particular region.

Know Drinking Water Quality App will also be beneficial for producers and sellers of water purifiers. The water purifier producers and sellers can use this app to get details about percentage of contamination in drinking water in various regions and can select potential markets for their products.

Problem Area: Pin Codes or name of villages required for SMS and IVR facility. Data on water quality testing laboratory is not available on Data Portal o0f India.

References URLs: https://data.gov.in/dataset/water-quality-affected-habitations-1st-april-2012

http://indiawater.gov.in/IMISWeb/Reports/WQMSP/rpt_TestSamples.aspx?rep=Y