

## EXECUTIVE BRIEF

1. One hundred villages, covered under Phase I of KIRWS & ESP, were selected for the study. These villages are distributed over forty-six taluks covering nine districts in the state.
2. In each village, five sample points (water outlets) were selected for WQA, which includes pH and residual chlorine tests, making a total of 500 sampling points.
3. Fifty villages were selected for Bacteriological test i.e. MPN test, DC test, Plate Count per ml and E-coli.
4. Trained professional teams conducted the study with the assistance of Village Health Facilitators at village level and NGOs, Zonal Coordinators, health supervisors and DPMUs at district level.
5. One thousand seven hundred eighty four persons, comprising VWSC members, pump-operators and local residents attended the WQA training programmes organised at village level. The kit used for testing the water was handed over to the local trained personnel with detailed instructions on how to use it and record the results.
6. The salient findings of the field survey are as follows:
  - a) Construction of chlorination plants is complete in 92 villages.
  - b) About 38 % of the chlorination plants are working and in use. Chlorination plants are not working in Gulbarga and Raichur districts.
  - c) About 18 % of the villages are using water supply from sources other than KIRWS & ESP, since as the water supply system under this project is not functioning.
  - d) In all the villages the WQA for pH was found to be satisfactory.
  - e) Only five percent of the villages are chlorinating the water. The residual chlorine was found within the prescribed norms in four percent of the villages.
  - f) Only 15 % of the villages have bleaching powder available to them though most of them have not stored it properly.
  - g) The Bacteriological test result is found to be satisfactory in 43 samples. In seven samples, the laboratory results indicate that chlorination is essential,
  - h) On a demand from the residents of the villages in the Bellary district, the fluoride test was organised. The fluoride content in the water was found to be high in five villages and normal in two villages.
7. In a few places, valves, taps and OHT were found to be leaking. The depth-measuring gauges were not functioning.
8. In few places, the surrounding area under OHT requires proper maintenance.
9. Power connections were not provided to the DC unit in a few villages.

