

TD603 (2016)
Water and Development
Tutorial 1

1. Visit the NRDWP site <http://indiawater.gov.in/imisreports/nrdwpmain.aspx> and familiarize yourself with all its sub-links. Locate the gram panchayat Galtare (in which Hamrapur is located) in Wada taluka and locate its habitations. See what is the drinking water status in these habitations. (Hamrapur does not seem to be listed. Ask Digvijay for the reason. What would be the nearest habitation?)

2. Study the Census 2001 part I and II data for Galtare GP. The data is available on the course webpage. Read the meta data available there or at : <http://censusindia.gov.in/Metadata/Metada.htm>

Analyse the population distribution by the type of work categories.

- a. What are some interesting differences you find between men and women with regards to their work status? Why do you think a greater proportion of women are marginal workers (and not main workers) as opposed to men? Find out which activities count as “work” in the Indian census data.
- b. Calculate the sex ratio, literacy rate and work participation rate as defined in the metadata file above.
- c. Compare the 2001 data with 2011 data for Galtare. What changes do you observe? Do you think these changes are for the better or worse?
- d. Compare the fraction of children at or below 6 years of age in 2001 and 2011. What does that tell you about the population growth in the next decade?
- e. Study both part I and Part II and comment on how is Galtare compared to Wada overall and villages within Wada.

2. Please study the speech of the late Dr. Kurien Verghese, who headed NDDB, a cooperative firm which brought in the White Revolution in Gujarat, i.e., of a highly distributed production of milk which benefited thousands of farmers. NDDB is the owner of the brand name Amul.
<http://www.india-seminar.com/2001/498/498%20verghese%20kurien.htm>

Analyse the speech in terms of development objectives and its coupling with market mechanisms.

3. Study the definitions of the census attributes and how they are gathered. Can the MDG attributes be computed from the census data? Study some of the NSSO data-sets available at: http://mospi.nic.in/Mospi_New/Admin/Login.aspx (login as pooja).

4. Study the various OECD attributes and how they are computed. Compare and contrast between the MDG and the OECD metrics.

5. Identify a service or a product which is now provided by the market but which was earlier provided by civil society. Analyse the chronology and try and explain what may have happened?

6. Suppose that you were hired to improve the public transport service within IIT Bombay. . Go through the development professional loop and make a brief analysis of the issues involved and the activities. What would be the data-sets that you will require? How will you define a development objective and a metric for the same? Try this out for IIT admissions process.