4.1 Study settings:

The study was conducted in periurban area of Surat city i.e. Sayan, Olpad, Bardoli etc. Study population: Tribals migrate to the area surrounding Surat city particularly during post monsoon season.

4.2 Sample size:

With a conservative choice of immunization coverage not less than 50%, confidence level of 95% and with a relative precision of 20% points on each side, a sample of 96 children was required. This sample size was rounded to 100. To attain this sample size, children between ages 1 to 2 years were identified from study population to assess child health status and service utilization (their mothers as respondent). Similarly, same numbers of mothers delivered in last one year were selected to know their present health status and health status during pregnancy and delivery. The purpose of the study was explained to both the groups (mothers’ in case of children) and their consent will be obtained before data collection. Approval of institutional ethics committee was sought before conduction of the study.

4.3 Selection of Subjects:

Various groups of tribal migrants surrounding the city particularly near by the sugarcane factories were contacted with help of local health functionaries and eligible mothers and
children were included in the study after informed consent. Help of various sugarcane factories was sought to locate and access tribal migrant group in the areas. Consecutively all the eligible mothers and child were included till desired sample size (100 in each group) was achieved.

4.4 Data collection:

A detailed interview of mothers was conducted and examinations and measurements were carried out to collect desired information. Weight of mother was measured using adult digital weighing scale while weight of child was measured using child digital weighing scale. All the information obtained during interview and examinations was recorded in structured questioner. Hemoglobin examination of mothers was be done by digital Hb meter.

A qualitative aspect was also be included by means of FGDs (in group of 6-8 mothers) and interview to know various issues and challenges associated with service provision and services utilization in context of maternal and child health.

4.5 Study variable:

Child health status was assessed by measuring height, weight, MUAC, immunization, morbidity profile etc. Health care seeking behavior for immunization, during minor & major illnesses, utilization of nutritional services etc was also assessed. Maternal health status includes current height and weight, Hb level, morbidities and complication during last pregnancy etc. Assessment of maternal health care services includes health care seeking for antenatal care, immunization, Iron tablets, intranatal services, post natal services etc.