



सत्यमेव जयते

SAMPLE REGISTRATION SYSTEM STATISTICAL REPORT 2017



**OFFICE OF THE REGISTRAR GENERAL &
CENSUS COMMISSIONER, INDIA
MINISTRY OF HOME AFFAIRS
GOVERNMENT OF INDIA
NEW DELHI**

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P R E F A C E

The Sample Registration System (SRS) in India is the largest demographic survey in the world covering about 7.9 million population. It continues to be the main source of information on fertility and mortality both at the State and National levels. Apart from the large sample size and geographic spread in most of the Districts, the system has a unique feature of dual recording, which involves retrospective half-yearly surveys. The continuous enumeration and retrospective surveys are followed by the process of matching of the two records and subsequent field verification of unmatched and partially matched events. The system provides for a cross check on the correctness and completeness of the events of birth and death listed by the two independent functionaries.

2. Based on the dual record system, the SRS has been providing reliable estimates of fertility and mortality on a regular basis from 1971 onwards. It includes data on population composition by broad age groups, sex and marital status, fertility and mortality levels, for India and bigger States/UTs (with population 10 million and above) separately for rural and urban areas. Certain items of demographic interest such as mean age at effective marriage for females, interval between current and previous live birth and also distribution of live births by birth order have continued to form part of the SRS report. The sex ratio at birth has been included in this Report as in the past. Moreover, in order to facilitate effective tracking of Sustainable Development Goals (SDGs) on under-five mortality, the estimates for India and bigger States/UTs, separately for rural and urban and also by sex have been provided in this Report.

3. The present Report is the fourth in the series that has been prepared based on data collected from new SRS sample units selected from 2011 Census frame. Apart from the fertility and mortality indicators, this Report includes data on crude birth rate, crude death rate and infant mortality rates at Natural Division (group of contiguous districts) level.

4. The SRS has been a joint effort of the Central and State Governments. This study has been made possible with the active involvement of staff and officers of the Directorates of Census Operations, Map Division and the SRS Wing of the Vital Statistics

Division at the headquarters. I am thankful to all of them. I must complement the contribution and efforts put in by Shri Ramkesh, Senior Research Officer, Ms. Jasleen Kaur Rekhi, Research Officer, Shri Ravi Kant, SI Grade-II, Ms. Prabha Rani Agrawal, DEO and Sh. Nand Lal, DEO in preparation of this Report, supervised by Smt Sandhya Singh, Deputy Registrar General, under the guidance of Shri Janardan Yadav, Addl. Registrar General.

(VIVEK JOSHI)

Registrar General & Census Commissioner of India

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DEFINITIONS

Crude birth rate (CBR)	=	$\frac{\text{Number of live births during the year}}{\text{Mid-year population}} \times 1000$
Age-specific fertility rate (ASFR)	=	$\frac{\text{Number of live births in a particular age-group}}{\text{Mid-year female population of the same age-group}} \times 1000$
General fertility rate (GFR)	=	$\frac{\text{Number of live births in a year}}{\text{Mid-year female population in the age-group (15-49) years}} \times 1000$
Total fertility rate (TFR)	=	$\frac{5 \times \sum_{15-19}^{45-49} \text{ASFR}}{1000}$
Gross reproduction rate (GRR)	=	$\frac{5 \times \sum_{15-19}^{45-49} \text{ASFR for female live births}}{1000}$
Age-specific marital fertility rate (ASMFR)	=	$\frac{\text{Number of live births in a particular age-group}}{\text{Mid-year married female population of the same age-group}} \times 1000$
General marital fertility rate (GMFR)	=	$\frac{\text{Number of live births in a year}}{\text{Mid-year married female population in the age-group (15-49) year}} \times 1000$
Total marital fertility rate (TMFR)	=	$\frac{5 \times \sum_{15-19}^{45-49} \text{ASMFR}}{1000}$
Crude death rate (CDR)	=	$\frac{\text{Number of deaths during the year}}{\text{Mid-year population}} \times 1000$

$$\text{Age-specific mortality rate (ASMR)} = \frac{\text{Number of deaths in a particular age-group}}{\text{Mid-year population of the same age-group}} \times 1000$$

Under-five Mortality Rate = The under-five mortality is the probability (${}_5q_0$) that a child born in a specific year or time period will die before reaching the age of five, subject to current age specific mortality rates. It is expressed as a rate per 1,000 live births.

$$\text{Infant mortality rate (IMR)} = \frac{\text{Number of infant deaths during the year}}{\text{Number of live births during the year}} \times 1000$$

Infant mortality rate comprises of two parts viz. Neo-natal mortality rate and Post neo-natal mortality rate. The neo-natal mortality rate also comprises of two parts viz. Early neo-natal mortality rate and late neo-natal mortality rate. These are defined as:

$$\text{Neo-natal mortality rate (NMR)} = \frac{\text{Number of infant deaths of < than 29 days during the year}}{\text{Number of live births during the year}} \times 1000$$

$$\text{Early neo-natal mortality rate} = \frac{\text{Number of infant deaths of < than 7 days during the year}}{\text{Number of live births during the year}} \times 1000$$

$$\text{Late neo-natal mortality rate} = \frac{\text{Number of infant deaths of 7 days to < than 29 days during the year}}{\text{Number of live births during the year}} \times 1000$$

$$\text{Post neo-natal mortality rate (PNMR)} = \frac{\text{Number of infant deaths of 29 days to < than one year during the year}}{\text{Number of live births during the year}} \times 1000$$

$$\text{Peri-natal mortality rate (PMR)} = \frac{\text{Number of still births and infant deaths of < than 7 days during the year}}{\text{Number of live births and still births during the year}} \times 1000$$

$$\text{Still birth rate (SBR)} = \frac{\text{Number of still births during the year}}{\text{Number of live births and still births during the year}} \times 1000$$