VITAL STATISTICS REPORT BHUTAN

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FOREWORD

The term "vital statistics" refers to the gathering and examination of data concerning births, deaths, marriages, and divorces. Accurate information on these events is vital for monitoring public health policies, tracking population growth and health trends, and supporting research endeavors.

This report is based on data recorded in 2022, aiming to demonstrate Bhutan's progress in enhancing its Civil Registration and Vital Statistics (CRVS) system. It also seeks to evaluate the extent to which the goals outlined in the CRVS Strategic Action Plan (SAP) of 2020 have been achieved.

Published by the National Statistics Bureau (NSB), this is the fourth in series of the Vital Statistics Report of Bhutan. It presents findings on vital events such as births, deaths for the latest available year. Data is drawn from the Bhutan Civil Registration System (BCRS) maintained by the Department of Civil Registration and Census (DCRC) under the Ministry of Home Affairs (MoHA).

The primary objective of this report is to assess the completeness of vital events, particularly live

births and deaths. A high level of completeness enables us to generate up-to-date indicators, surpassing the reliance on Population and Housing Census (PHC) data. Civil registration serves as a crucial source of population data, recognized by the United Nations as the most reliable source of vital statistics (UN Statistics Division; 2001).

Additionally, this initiative led by the Social Statistics Division (SSD) allows us to leverage administrative data to produce official statistics, aligning with NSB's overarching objective. We anticipate that this report will offer valuable insights into socio-demographic indicators and become more valid, relevant, regular, and accessible over time. Your feedback will be instrumental in enhancing future iterations of the vital statistics report.

(Sonam Tenzin) Director General National Statistics Bureau

ACKNOWLEDGEMENT

The completion of this report represents a collaborative effort between the Ministry of Home Affairs (MoHA) and the National Statistics Bureau (NSB), both of which have demonstrated keen interest in its production. We extend our gratitude to the dedicated project team whose collaborative efforts have been instrumental in the success of this endeavor.

We would like to express our sincere appreciation to Mr. Thinley Wangchuk (Director) and Mr. Pema Letho (Chief Civil Registration and Census Officer) of the Department of Census and Civil Registration for granting us access to the BCRS dataset. The report was meticulously prepared by a team of officers led by Tashi Dorjee (Chief Statistical Officer) and Jigme Choden (Statistical Officer) from NSB, along with Karma Drugyel Zangmo (Research Officer) from MoHA. Their dedication and diligence have greatly contributed to the quality of this report.

Furthermore, we extend our gratitude to all officials who worked tirelessly behind the scenes to provide the necessary data, their contributions have been invaluable to the completion of this report.

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ACRONYMS AND ABBREVIATIONS

ASDR Age Specific Death Rates ASFR Age Specific Fertility Rate BCRS Bhutan Civil Registration System BHU Basic Health Unit CBR Crude Birth Rate CSC Community Service Centre CDR Crude Death Rate CID Citizenship Identity Card CMC Court Marriage Certificate CoD Cause of Death CRC Civil Registration and Census CRVS Civil Registration and Vital Statistics DCRC Department of Civil Registration and Census DCRCO Dzongkhag/District Civil Registration and Census Office Dol Department of Immigration G2C Government to Government HMIS Health Management and Information System HQ Head Quarter ICD International Classification of Disease IIMS Immigration Information Monitoring System MoH Ministry of Health MoHCA Ministry of Health MoHCA Ministry of Health MoHCA Ministry of Home and Cultural Affairs NSB National Statistics Bureau NDI National Digital Identity PGR Population and Housing Census of Bhutan SoP Standard Operating Procedures		
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NDI National Digital Identity PGR Population Growth Rate PHCB Population and Housing Census of Bhutan SoP Standard Operating Procedures	MoHCA	
PGR Population Growth Rate PHCB Population and Housing Census of Bhutan SoP Standard Operating Procedures	NSB	National Statistics Bureau
PHCB Population and Housing Census of Bhutan SoP Standard Operating Procedures	NDI	National Digital Identity
SoP Standard Operating Procedures	PGR	Population Growth Rate
·	PHCB	Population and Housing Census of Bhutan
CDD C D II I D II	SoP	Standard Operating Procedures
SKB Sex Katio at Birth	SRB	Sex Ratio at Birth
SR Special Residence	SR	Special Residence
TAT Turn Around Time	TAT	Turn Around Time
TCRCO Thromde Civil Registration and Census Officer	TCRCO	Thromde Civil Registration and Census Officer
UN United Nations	UN	
UNESCAP United Nations Economic and Social Commission for Asia and the Pacific	UNESCAP	United Nations Economic and Social Commission for Asia and the Pacific
VSR Vital Statistics Report	VSR	Vital Statistics Report
WHO World Health Organization	WHO	•



DEFINITIONS

Dzongkhag: Second in administrative hierarchy in Bhutan equivalent to district

Dungkhag: Sub-District

Gewog: Block

Thromde: Municipality

Gup: Village Headman at block level

Tshogpa: Member of the Census Committee in

the village

Approver: Officer at DCRC HQ

Verifier: Civil Registration & Census Officer at *Dzongkhag* level. Present also at *Thromde* and

DCRC HQ

Operator: Computer Operator at Community Service Centre (CSC) level. Present also at DCRCO or *Thromde* or DCRC HQ

Applicant: Concerned Individual/Person

Community Service Centre: Registration points

at block level

Health Facility: Any health facility operating under the purview of Ministry of Health in the Kingdom of Bhutan

Requestor: Parent or Guardian or Relative or Next of kin of the deceased

Agency: Labour Recruitment agency or travel

agent who is responsible for looking after the welfare of the foreigners or non-Bhutanese while they are in the country

Foreign National: Person(s) other than Bhutanese residing temporarily in Bhutan

Marriage Case: Marriage case between Bhutanese and non-Bhutanese that occurred after 1985

Identification: Citizenship Card/Special Resident Card for Bhutanese Documents and SR holders, Permits issued by DCRC, MoHA, Permits for MC After 1985, Permits issued by the Department of Immigration and Passport copy for non-Bhutanese

Immigration Card: Stay permit issued to the foreigners married to Bhutanese after 10th June 1985 and their children.

Special Resident Card: Resident card issued to the foreigners married to Bhutanese before 10th June 1985 and their children.

Annual Census: Total count of the citizens and resident permit holders carried out in the *Dzongkhags /Thromdes/Drungkhags* by the respective Civil Registration and Census Officials (CRCO) between November and January annually.

Region: Statistical boundary of the country

(**West**: Thimphu, Punakha, Gasa, Paro, Haa, Wangdue Phodrang, Samtse, Chhukha.

Central: Trongsa, Bumthang, Zhemgang, Tsirang, Dagana, Sarpang.

East: Trashigang, Trashi Yangtse, Monggar, Lhuentse, Samdrup Jongkhar, Pema Gatshel).

BCRS-BR-01: Bhutan Civil Registration System Birth Registration Form

BCRS-BR-SG-01: Bhutan Civil Registration System Statement of Guarantor for Birth Registration

BCRS-DR-01: Bhutan Civil Registration System Death Reporting Form

BCRS-DR-SD-01: Bhutan Civil Registration System Statement of Death

BCRS-IB-01: Bhutan Civil Registration System Information on Birth

MoH-NB-01: Bhutan Civil Registration System Notification of Birth

BCRS-SD-01: Bhutan Civil Registration System Statement of Death

MoH-ND-01: Notification of Death

Civil Registration (CR): The continuous, permanent, compulsory, and universal recording of the occurrence and characteristics of vital events pertaining to the population, as provided through decree or regulation in accordance with the legal requirements in each country.¹

Vital Statistics (VS): A collection of statistics on vital events in a lifetime of a person as well as relevant characteristics of the events themselves and of the person and persons concerned.¹

Age: The population age is calculated and shows the number of completed years based on date of birth.

Completeness of Registration: The proportion of vital events that are registered. It is the number of registered vital events divided by an estimate of the 'actual' number of vital events that occurred in the same population during a specific time.

Timely Registration: The registration of a vital event within the legally specified period (within one year).

Delayed Registration: The registration of a vital event after one year.

Live Birth: 'The complete expulsion or extraction from the mother of a product of conception, irrespective of the duration of pregnancy, which, after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered live born (all live-born infants should be registered and counted as such, irrespective of gestational age or whether alive or dead at the time of registration, and if they die at any time following birth, they should also be registered and counted as deaths).'1

Death: The permanent disappearance of all evidence of life at any time after live birth has taken place (postnatal cessation of vital functions without capability of resuscitation). This definition excludes fetal deaths, which are defined separately.

Crude Birth Rate (CBR): The number of live births relative to the size of that population during a given period, usually one year. It is expressed as the number of live births per 1,000 population (mid-year) per year.

¹ United Nations (2014). Principles and recommendations for a vital statistics system. Revision 3. Department of Economic and Social Affairs, Statistics Division Statistical Papers, Series M No. 19/Rev.3, New York.

Crude Death Rate (CDR): The number of deaths relative to the size of that population during a given period, usually one year. It is expressed as the number of deaths per 1,000 population (mid-year) per year.

Sex Ratio at Birth: The number of male births for a specific area during a specified period divided by the number of female births for the same area and period. The sex ratio is an important demographic indicator of the distribution of boys and girls at birth.

Age-Specific Fertility Rate (ASFR): The annual number of births to women of a specified age or age group per 1,000 women (mid-year) in that age group.

Age-Specific Death rate (ASDR): A mortality rate limited to a particular age group. The numerator is the number of deaths in that age group; the denominator is the number of persons in that age group per 1,000 population (mid-year).

Cause-of-Death: 'All those diseases, morbid conditions or injuries which either resulted in or contributed to death and the circumstances of the accident or violence which produced any such injuries.² Symptoms and modes of dying, such as heart failure or respiratory failure, are not considered to be causes-of-death for statistical purposes (see 'ill-defined cause-of-death').

Infant Deaths: The death of a live-born child under 1 year of age.

Rate of Natural Increase: Rate at which a population grows (increase/decrease) during a given year, as the result of a surplus/deficit of births over deaths; expressed as a percentage of the base population.

Low Birthweight (LBW): The weight at birth of fewer than 2,500 grams as per World Health Organization definition.

Place of Occurrence: The place where the vital event took place.

Place of Usual Residence: The place where the person usually resides.

EXECUTIVE SUMMARY

The National Statistics Bureau is dedicated to enhancing the utilization of administrative data, including Civil Registration and Vital Statistics (CRVS), in Bhutan, complementing traditional official statistics obtained from surveys and censuses. In pursuit of this goal, a web-based CRVS system was launched in 2012 to streamline the collection, storage, and utilization of vital statistics data.

This report is founded on data collected in 2022, focusing solely on vital events that occurred and registered within the same year. Comprising six chapters, it provides a comprehensive analysis. The initial chapter offers an introduction and background to the report's scope. The second chapter delves into the Bhutan Civil Registration System (BCRS), elucidating its structure and functionality. The third chapter presents an in-depth analysis of data quality, registration timeliness, and completeness. Chapters four and five expound upon birth and death statistics, respectively, offering detailed insights. Finally, the sixth chapter presents concise summary tables encapsulating key findings and trends.

Birth Statistics:

In 2022, the comparison between registered births and estimated live births revealed a registration completeness rate of 83.2%. Specifically, 10,157 births were registered, resulting in a Crude Birth Rate (CBR) of 13.3 per thousand population. Male births outnumbered female births, with 5,144 males and 5,013 females, yielding a sex ratio of 103.

The majority of births in 2022 occurred at health facilities (98.8%), indicating increased access to medical care, while home births accounted for only 1%. Regarding birth weight, the average recorded weight was 3,162 grams, with 7.8% of live births classified as low birthweight.

First-borns comprised the largest proportion of births (37.6%), followed by second-order births (32.8%). The number of births decreases with increasing birth orders. Births beyond the ninth or tenth order are rare. Most births (34.2%) occurred after a gap of 5 to 9 years since the previous birth, followed by those occurring after a gap of 10+ years (17.9%). A small percentage (1.2%) of births happened within less than 12 months of the previous birth.

Death Statistics:

In 2022, vital statistics pertaining to deaths revealed a total of 3,605 recorded deaths, marking an increase compared to the 3,187 deaths in 2021. The calculated Crude Death Rate (CDR) based on observed BCRS data was approximately 5 deaths per 1000 population, indicating a relatively low level of completeness in death registration (70.1%). The CDR saw an increase from 4.2 to 4.7 deaths per thousand population.

Of the total deaths in 2022, mortality statistics indicated a higher number of deaths among males (1,938) compared to females (1,667). When analyzed by age group and sex, the highest proportion of deaths was registered in the age group 75-79, with a completeness rate of 86.4%, while the lowest registration was observed in the age group 0-4 years, with only 12.7% completeness. For age groups younger than 8 years, the death registration completeness was 7.2%, while for those aged 8 years and above, it improved to 67.9%. Overall, death registration was more comprehensive among males than females.

Regarding the site of death occurrence, 50.4% of deaths happened at home, while only 45.5% occurred in the health facilities.



Chapter 1 INTRODUCTION

1.1 INTRODUCTION

Vital statistics is the collection of statistics on vital events of a person as well as the relevant characteristics of the events themselves and of the person and persons concerned (UN, 2014). The United Nations acknowledges ten primary vital events for registration, yet this report focuses on live births and deaths due to data availability.

Administrative data sources furnish vital statistics, offering a continuous overview of fertility and mortality trends within a nation. These metrics serve as foundational elements for national planning across various sectors. Health planners and policymakers rely on them to monitor progress regarding key health indicators and to assess the efficacy of interventions aimed at enhancing population health and well-being.

Furthermore, birth-related vital statistics aid the education sector in estimating and planning necessary facilities to accommodate the nation's changing child population. They also assist in monitoring school enrollment and completion rates. Similarly, agencies involved in infrastructure planning, including transportation, housing, water, and land resources, rely on accurate population data to plan for current and future demographic trends.

Vital statistics can be sourced from periodic endeavors such as population censuses and household surveys, as well as from administrative sources such as health information and civil registration systems. Administrative sources offer a crucial advantage by providing data continuously. The United Nations particularly emphasizes civil registration as the most dependable source of vital statistics, highlighting its enduring nature, mandatory adherence, universal applicability, and legal backing. Strengthening these data systems is imperative to ensure they operate optimally.

1.2 BACKGROUND

There is evidence that Bhutan was inhabited since time immemorial, however, there is no official record of the population count that pre-dates the 18th century and very little is known about the population dynamics in Bhutan. The development of demographic calculations started only in the beginning of the 18th century. These records were maintained by different regions for taxation purposes. However, with the start of the first five-year development plans in the country, the importance of the statistics was critically felt by the government. The systematic registration of annual births and deaths started in the late 1980s. While the vital events ideally include live births, deaths, fetal deaths,



marriages, divorces, judicial separations, adoptions, legitimations, and recognitions, but in the absence of comprehensive data on all these events, the focus of this report is restricted only to births and deaths. The data on births and deaths are maintained by the DCRC under the MoHA. Since these data have never been used to produce vital statistics the censuses and household surveys conducted by the NSB and MoH were the only sources of data for vital statistics in the country. The annual vital statistics report presents a great opportunity to learn from experience in terms of the registration of births, deaths and causes of death and evaluate the quality of the available data in the country.

1.3 RATIONALE

Without reliable vital statistics, effective monitoring of social and health initiatives by governments, donor agencies, and multilateral organizations becomes challenging. Vital statistics serve as the foundation of a country's health information system. Lacking data on births, deaths, and causes of death impedes progress toward the primary goal of any health system.

Civil registration records stand as the premier source of vital statistics. They consistently generate data nationwide, offering crucial insights for both national and local levels. This information is indispensable for regional planning and the judicious allocation of resources in sectors such as education, health, and social security at appropriate administrative tiers.

Furthermore, vital statistics aid in producing population estimates and projections, leveraging the natural rate of increase gleaned from civil registration records. They are integral to informed decision-making and sustainable development initiatives.

1.4 OBJECTIVES, SCOPE, AND ORGANIZATION OF THE REPORT

1.4.1 General Objective

The primary aim of this report is to provide an up-to-date overview of vital event statistics, facilitating informed decision-making.

Additionally, it seeks to identify any existing gaps and monitor progress toward the goals outlined in the CRVS Strategic Action Plan developed in 2021.

1.4.2 Specific objectives

The specific objectives include:

- i. To assess the level of completeness in birth and death registration.
- ii. To gauge the reliability of demographic indicators derived from BCRS data, a comparison will be conducted with indicators obtained from alternative sources.
- iii. To assess the data in terms of coverage, quality, and timeliness for registration of vital event.

1.4.3 Scope of the Report

The United Nations recommends that countries should register and collect information on the vital events such as the: birth; death; fetal death; marriage; divorce; annulment; judicial separation; adoption; legitimation (acknowledgment); and recognition (judicial declarations of paternity) (UN, 2014). However, since Bhutan does not maintain records on most of these vital events as recommended by the UN, the scope of this report is limited to only events related to births and deaths that were registered in 2022.



The report is organized in six chapters namely (1) Introduction and background; (2) Bhutan civil registration system; (3) Data quality, timeliness, and completeness of registration (4) Birth statistics (5) Death statistics, and (6) Summary statistics.

- Chapter 1 presents the introduction and the general overview of the role of vital statistics, objectives, and scope of the report.
- Chapter 2 describes the Bhutan Civil Registration System including history, legal background, administrative structure; organizational structure, registration process and the flows of information; organization of vital statistics production and dissemination plan; incentives and disincentives for civil registration.
- Chapter 3 describes the quality and completeness of civil registration data.
- Chapter 4 presents the statistics on births disaggregated by various aspects.
- Chapter 5 outlines the disaggregated statistics on deaths.
- Chapter 6 provides the summary statistics on births and deaths with explanatory narratives and finally, the annexure I presents the statistical tables, annexure II presents the Memorandum of Understanding (MoU), annexure III presents the birth and death registration flow chart and annexure IV presents other forms and documents related to birth and death registration in Bhutan.

1.5 POPULATION STRUCTURE

The 2017 Population and Housing Census of Bhutan (PHCB) highlighted that 52% of the total population were males, with females comprising 48%. This population was projected to reach 763,249 individuals by 2022, reflecting a five-percentage point increase compared to 2017.

The Population Pyramid serves as a vital demographic tool, enabling the analysis of population distribution across various age groups. It unveils shifts in age structures and emerging demographic trends within a country. A narrowing base of the population pyramid indicates declining fertility rates, while mortality levels dictate its height.

Additionally, migration patterns by age and sex influence the pyramid's shape. The diminishing size of younger generations has been observed for approximately 25 years due to decreased fertility rates.

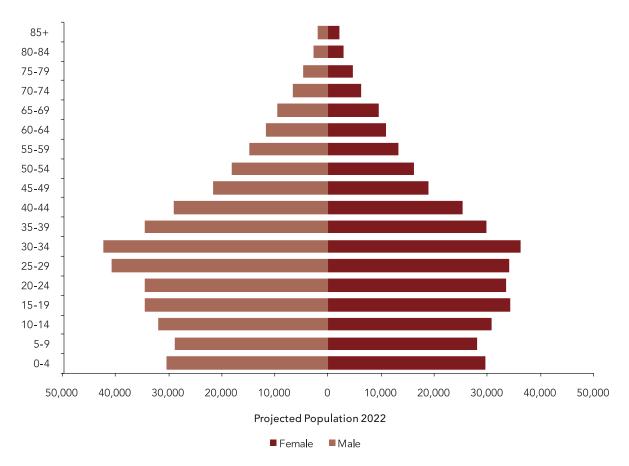


Figure 1.1 Population Pyramid by Age Group and Sex, Bhutan 2022

Source: Population Projection Report, 2017-2047 (NSB)

Chapter 2 BHUTAN CIVIL REGISTRATION SYSTEM

The Department of Civil Registration and Census (DCRC) under the Ministry of Home Affairs is mandated to maintain the comprehensive registry of the population of Bhutan and deliver civil registration and census services through online and offline platforms. Beginning late 1980's, the DCRC has started recording all the vital events such as the births and deaths in the country. The registration system is at its infancy stage, yet the country has achieved 100 percent geographic coverage in terms of registration, while the completeness rate is steadily improving.

2.1 HISTORY

In Bhutan, the civil registry was maintained manually in the paper-based register known as Family Diary until 2002. This family diary was maintained with the respective administration [Dzongkhag (District), Drungkhag (Sub-district), and Gewog (block)]. The system of recording the births and deaths could be done only once a year.

Beginning 2003, the DCRC initiated the computerization of all records from the Family Diaries. Both births and deaths taking place in the country were directly recorded into the computer database. In the following year, a more comprehensive database called Bhutan Civil Registration System (BCRS) was developed. The focus of this system was the issuance of Citizenship Card, but the system for recording

births, deaths, move-in and move-out records of family members, and household details were also integrated.

In 2004, considering the importance of civil registration in the country, the MoHA bifurcated the then Department of Immigration and Census (Earlier Department of Registration) into Department of Civil Registration and Census and Department of Immigration. Accordingly, Dzongkhag Civil Registration and Census Offices (DCRCO) were established and institutionalized in all 20 Dzongkhags with the mandate to oversee the civil registration related activities in the dzongkhag. In 2009, the DCRC developed guidelines for DCRCO, and in 2016 Standard Operating Procedure to guide registration of all births and deaths in their jurisdiction. Further, the timeline, mode of record compilation and transmission of records from Dzongkhag/ Drungkhag/Thromde to central office and vice versa were also specified in these documents.

In 2011, under the auspices of Government to Citizen (G2C) Project initiatives, the BCRS was made into a web-based system enabling birth and death registration of the citizens online. Under the G2C project, community centers were also established at *gewog* (block) level taking the registration points closer to the people. Subsequently, in 2021 to enhance public service delivery, the Department through the

Table 2.1 Document Required for Registration of Vital Events

Vital Events	Practice
Birth	 Must be reported to any of the Civil Registration Points within one year after delivery of the child. The birth can be registered from two service access points: - 1. Registration from current place of residence
Death	Must be reported to any of the Civil Registration Points within one year after death of the person. The death can be registered from two service access points: - 1. Registration from current place of residence Documents required: - a. Duly completed application form: BCRS-DR-01; b. Original CID/SR card of the deceased; and c. Notification of Death OR Statement of Death (BCRS-DR-SD-01) issued by a guarantor and a witness. 2. Registration from permanent address as per civil registration and census record Documents required: - a. Duly completed application form: BCRS-DR-01; b. Original CID/SR card of the deceased; and c. Notification of Death; OR Statement of Death (BCRS-DR-SD-01) issued by the Tshogpa.

Public Service Delivery revised the registration procedure, enabling individuals to register births and deaths at their current place of residence or their designated permanent address as indicated in the civil registration system. In addition, the government initiated birth and death registration through the Integrated Citizen Services (ICS). The ICS system was developed to reduce administrative burden and enhance service delivery by integrating BCRS with the electronic Patient Information System (ePIS) of the Ministry of Health and the Judiciary System of the Royal Court of Justice. With ICS, individuals have convenience of registering births and deaths using their smartphones or computers, eliminating the need for in-person visits to the registration points.

Currently, DCRC has successfully implemented birth and death registration through ICS in Five *Dzongkhags* - Bumthang, Punakha, Trashigang, Trongsa, and Zhemgang, with plans for a nationwide rollout in the coming months, ensuring seamless transition from the existing manual registration processes to a fully automated registration system.

In 2021, National Statistics Bureau in collaboration with MoHA had published its first Vital Statistics Report.

2.2 LEGAL AND ADMINISTRATIVE ISSUES

2.2.1 Registration of Birth for Citizen

The Bhutan Citizenship Act, 1985 Clause 2 states

"A person whose parents are both citizens of Bhutan shall be deemed to be a citizen of Bhutan by birth."

Under the provision of the Citizen Act, 1985, all children of Bhutanese parentage irrespective of whether born inside or outside Bhutan must be registered into the civil registration system within one year of birth. If the child is not registered in the civil registration system within the stipulated time, the child's civil status becomes "dropout". Then the process to register the child lengthier as it involves the need for endorsement by the local government officials justifying their inability to register the births within the stipulated time. However, there is no penalty or late fees for such late registration.

The civil registration officials of the respective Dzongkhags, Drungkhags, and Thromdes, and Community Service Executive (CSE) in the Gewogs register the birth and death as and when reported as well as during the annual census program carried out between November and January each year. The annual census program is an event where the census officials update the vital events such as births, deaths, move-in & move-out, etc. The information compiled is submitted online for verification by the Civil Registration and Census officials (CRCO) at various stages. Once these documents are verified, the child gets registered into the civil registration system and a unique citizenship identity (CID) number against the child is generated by the system. This unique number is later used in issuing the CID card to the child upon reaching 15 years of age.

For the initial registration, there is a minimum

requirement of vital information to be collected in addition to the CID card number of the parents.

2.2.2 Registration of Birth for Foreign National and Non-Bhutanese Spouse (Registration of an Immigrant Child)

The Immigration Rules and Regulations of the Kingdom of Bhutan 2015, Section 57 states

"The parents of children born to Bhutanese and foreign spouse holding Immigration Card shall register their child with the department within one year of child's birth along with birth certificate and relevant identity documents of the parents. Certificate of Registration may be issued for one year to facilitate permit and visa."

In accordance with the provision of immigration rules and regulations 2015, the department of immigration records all births occurring to foreign nationals and non-Bhutanese spouse in Bhutan within one year.

If the child is not registered within one year of birth, verification of report by the respective dzongkhag needs be done to carry out the registration as per the prescribed rules and regulations. However, no penalty or fine being imposed for such late reporting of births for registration.

2.2.3 Registration of Death for Citizens

The Citizen Act does not specify a prescribed timeline by which the death of a citizen should be registered. However, most of the family members register the death of a person (above 8 years of age) within one year after the event has occurred. This is done mainly to claim rural life insurance from the relevant agencies to facilitate the funeral rites. The deaths that remain unregistered are mostly of those deaths that occur to persons below 8 years of age. Without

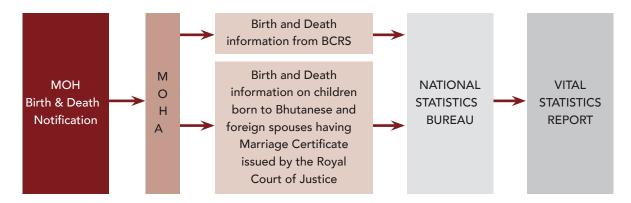


Figure 2.1 Organizational chart presenting information flows for developing VS Report

any incentives, these deaths remain unregistered leading to low rate of completeness in death registration. However, efforts are being made to capture and update these events during the annual census.

2.2.4 Registration of Death for Foreign National and Non-Bhutanese Spouse

There is no specific provision in the immigration law requiring the registration of such events occurring among the foreigners or to non-Bhutanese spouse in Bhutan. However, an attempt has been made by the Department of Immigration to maintain records of all reported deaths that occur to foreign nationals including non-Bhutanese spouse in Bhutan.

2.3 ORGANIZATIONAL STRUCTURE, REGISTRATION PROCESS AND INFORMATION FLOWS

Figure 2.1 presents the organizational structure of information flows for developing the vital statistics report. To ensure there is a continuous and timely flow of data from the data provider (MoHA) to the data recipient (NSB) and to enable the timely publication of annual vital statistics report, a Memorandum of Understanding (MoU) was signed between the MoHA and NSB on 9 October 2020 (annexure II). The MoH and Department of Immigration also share information related to vital statistics.

2.3.1 Registration Process for Births and Deaths

2.3.1.1 Birth Registration Process for Citizen

To register a birth into BCRS, the doctor issues a Notification of Birth for those births occurring inside health facility. For those births occurring outside health facility, the tshogpa/ thromde tshogpa issues Information on Birth (BCRS-IB-01) which is submitted to hospital for obtaining the birth notification/certificate. The applicant completes birth registration forms and gets the endorsement of the local government officials of their respective *gewogs* if the parents have no Court Marriage Certificate (CMC) issued by the Royal Court of Justice. However, if the parents have CMC, they can register birth from their current place of residence by submitting a Statement of Guarantor (BCRS-BR-SG-01) supported by the CMC. The completed documents are submitted to the operator located at any of the registration points.

The operator scans the documents and enters the vital information of the child including parent's details into the computer system through online DCRC framework (Annexure III Figure 1 & 2) and submits the application online to verifier (L1) located at *Dzongkhag/Thromde* level. The verifier (L1) verifies the submitted application and further submits it to verifier level (L2) located at DCRC HQ or

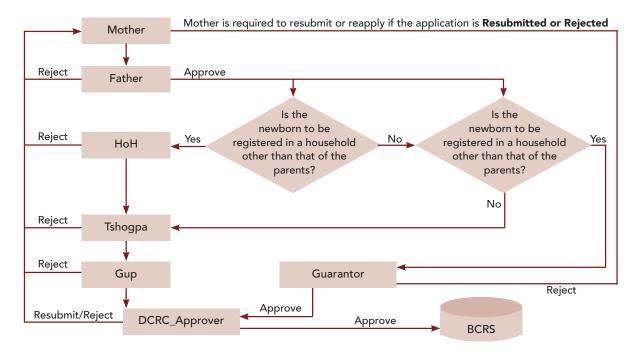
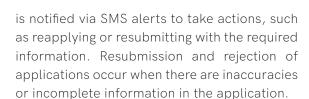


Figure 2.2 Birth Registration through ISC system

returns it to the operator. The verifier L2 verifies the application and submits it to the approving authority located at DCRC HQ or re-submits it to the L1 verifier. The approving authority either approves or returns the application to L2. The online resubmissions of application to the preceding levels occur when the information is wrong or incomplete. Upon approval of the application by the approving authority, the name of the child is registered into the BCRS, and a unique CID number is generated by the system.

2.3.1.2 Birth Registration Process for Citizen through ISC system

The process of registering a birth in the ICS system begins with the mother logging into the National Digital Identity (NDI) app through the Citizen Services Portal. If the parents have CMC issued by the Royal Court of Justice, their information is automatically populated from the Judiciary System. Otherwise, the mother will need to enter the father's CID number to retrieve his details. After filling

in the newborn's information and attaching birth documents, the mother submits the application. An SMS notification is sent to the father, who must then log in via his NDI app on the Citizen Services Portal to approve or reject the application. If the child is to be registered in a household other than that of the parents, the Head of Household (HoH) of the new household receives an SMS notification to verify and either approve or reject the application through the NDI app. For birth registration with parents holding CMC, a Guarantor verifies and confirms the parentage by logging in with the NDI app. In the absence of CMC, the application is forwarded to the respective local government officials (Tshogpa and Gup) for verification and approval. The final verification is done by the DCRC Approver, who determines whether to approve, resubmit or reject the application based on accuracy and completeness of formality. Any resubmitted or rejected applications are displayed on the mother's dashboard and she 

2.3.1.3 Death Registration Process for Citizen

To register a death into the BCRS, doctor issues Notification of Death for those deaths occurring inside health facility. For those death occurring outside health facility, the tshoapa/ thromde tshogpa or guarantor & witness issues Statement of Death (BCRS-DR-SD-01). The applicant then completes death registration forms and gets the endorsement of the local government officials if he/she is registering death from the deceased's permanent address as per DCRC record. However, if the applicant prefers to register death from his/her current place of residence, he/she can submit the Statement of Death signed by the guarantor and witness. The completed documents are submitted to the operator located at any of the registration points.

The operator scans the documents and updates the information in the online DCRC framework (Annexure III Figure 3 & 4) and submits the application online to the verifier (L1) located at *Dzongkhag/Thromde* level. The verifier (L1) verifies the submitted application and submits it to the approval level located at DCRC HQ. The approving authority verifies the submitted application and either approves or re-submits the application. Upon approval of the application, the name of the person is marked as "Deceased" in the BCRS.

2.3.1.4 Death Registration Process for Citizen through ICS

The process of registering a death in the ICS system begins with the Requestor, typically a family member or next of kin to the deceased,

logging into the National Digital Identity (NDI) app through the Citizen Services Portal. After entering the deceased's information and attaching the required death documents, the requestor submits the application. If the death has occurred overseas or outside Health Facility in Bhutan, the application is forwarded to the respective local government officials (*Tshogpa* and *Gup*) for verification and approval upon submission by the requestor.

However, if the death has occurred within a Health Facility in Bhutan, the requestor needs to attach death document issued by the Health Facility. The application is then forwarded to the DCRC Approver for final verification, who determines whether to approve, resubmit or reject the application based on accuracy and completeness of the information. Any resubmitted or rejected applications are displayed on the requestor's dashboard and they are notified via SMS alerts to take actions, such as reapplying or resubmitting with the required information. Resubmission and rejection of applications occur when there are inaccuracies or incomplete information provided.

2.3.1.5 Birth Registration Process for Foreign Nationals and Non-Bhutanese Spouse

To register the births into IIMS, doctors issue birth notification for births occurring inside health facility. For those births occurring outside health facility, the *tshogpa/thromde tshogpa* issue information on birth and this information is delivered to hospital for obtaining the birth notification/certificate. The applicant then completes birth registration forms, and the completed documents are submitted to the operator located at the immigration head office.

The operator physically verifies the completed documents and then enters the birth information of the child including parent's details into the

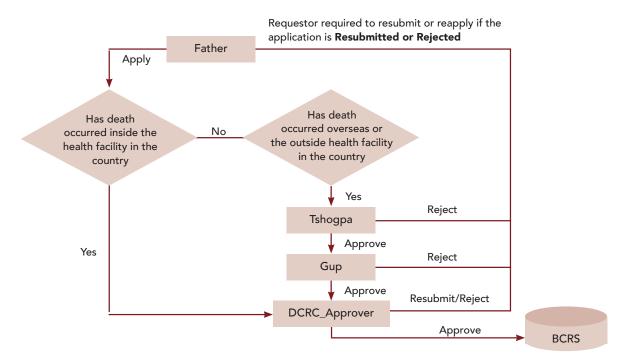


Figure 2.3 Death Registration through ISC system

computer system through the online IIMS and submits the application online to the immigration officer. The officer verifies the submitted application online and approves if it is in order or re-submits to operator. Upon approval of the application by the officer, the name of the child is registered into the IIMS.

2.3.1.6 Death Registration Process for Foreign Nationals and Non-Bhutanese Spouse

To register death into IIMS, doctors issue death notifications for deaths occurring inside health facility. For those deaths occurring outside health facility, the *tshogpa/thromde tshogpa* issue statement of death. The applicant then completes death registration forms. The completed documents are submitted to the operator located at the immigration head office.

The operator verifies the documents and updates the information in the online IIMS and submits the application online to the immigration officer. The officer verifies the submitted application and either approves or re-submits the application.

Upon approval of the application, the deceased is marked as "Cancelled" in the IIMS.

2.3.1.7 Registration process and information flows

Figure 2.4 summarizes the registration process and information flow, taking into consideration the 10 milestones (refer to :https://gh.bmj.com/content/bmjgh/3/2/e000673.full.pdf). The `Ten CRVS Milestones' framework is designed to help CRVS stakeholders better understand how CRVS systems function as a whole, from end-to-end, by describing the key processes that must be accomplished in any CRVS system.

2.3.2 Registration Points

Bhutan has a total of 230 registration points (200 *Gewogs*, 4 Dungkhags, 4 *Thromde* offices, 20 *Dzongkhags*, and department head office for citizen's registration and immigration head office for children born to Bhutanese and foreign spouses having Marriage Certificate issued by the Royal

Court of Justice). The applicant/individual can

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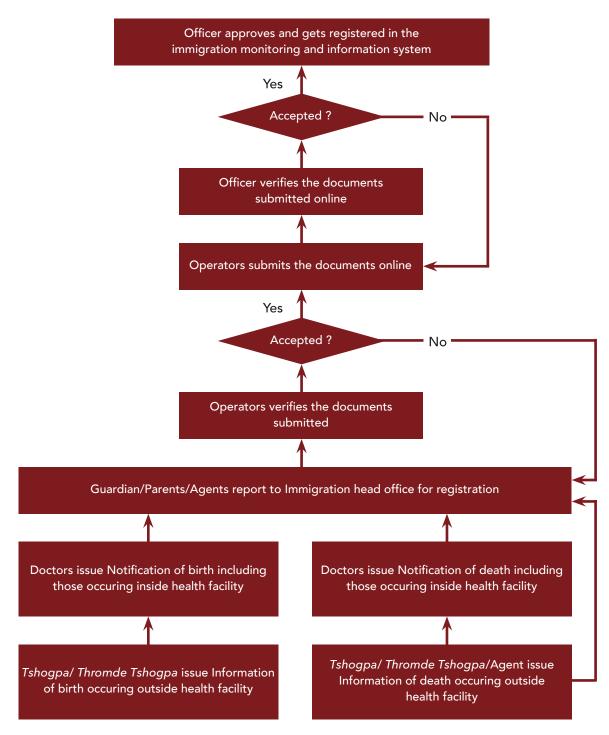


Figure 2.4 Birth and Death Registration for children born to Bhutanese and foreign spouses having Marriage Certificate issued by the Royal Court of Justice

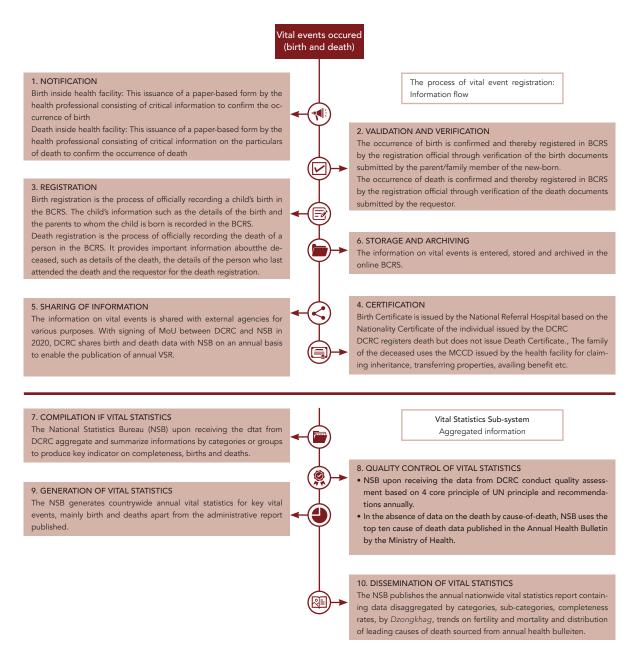


Figure 2.5 Ten CRVS Milestones' framework with a working definition of each milestone

report the birth and death to any of these registration points with the complete set of documents and duly signed birth/death registration forms for registration. Upon receipt of these documents, the officials located at these registration points issue the acknowledgement receipt, particularly for births confirming the receipt of the registration forms to initiate the process.

2.3.3 Time Allowed for Registration

Another subject of civil registration procedure relates to determining the time within which a vital event (births and deaths) must be registered. The SOPs allow a duration of one year to register an event.

2.3.4 Live Births by Place of Occurrence and Place of Registration

In 2022, there were a total of 10,157 registered births out of which 446 births do not have complete information for further analysis. This report is therefore, based on only 9,711 registered births. By place of occurrence, 3,914 births occurred in Thimphu, 796 births in Sarpang and 789 in Monggar dzongkhags. Trashigang dzongkhag has the highest number of registered births (1,058) followed by Monggar and Samtse dzongkhags with 860 and 830 live births respectively. While Gasa Dzongkhag has registered the lowest number both in terms of occurrence (7) as well as in registration (38) in 2022.

2.4 INCENTIVES AND DISINCENTIVES FOR REGISTRATION

The following are some of the factors that influenced the registration of vital events either positively or negatively (incentives and/or disincentives):

2.4.1 Incentives:

1. Birth

One doesn't need to have a nationality certificate or birth certificate to avail of health services. However, a nationality/ birth certificate (proof of child being registered with the civil registration) is required for a child to get school admission and for processing passport and other travel-related documents.

2. Death

One of the main reasons for registering the death by the family members within a year of death is to claim rural life insurance against the name of the deceased. The amount claimed from insurance facilitates the family members to perform funeral rites for the deceased person.

2.4.2 Disincentives

1. Birth

The factor that negatively affect the registration of births on time is the difficulty in collecting official documents from the local authorities.

2. Death

The rural life insurance could be claimed only for those persons aged 8 years and above. Therefore, the reporting of incidence of death below 8 years of age is low.

- ▲ Community Service Centre RP
- ⋆ Dzongkhag RP

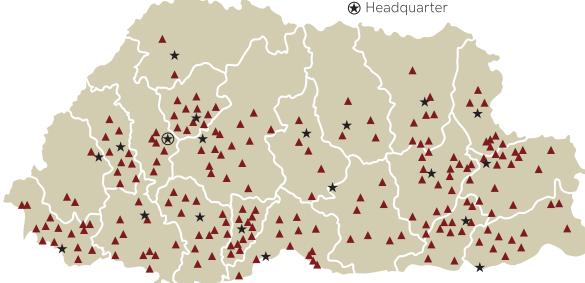


 Table 2.2
 Number of Births by Place of Occurrence and Place of Registration, Bhutan 2022

										Place of	Place of Registration	_									
Occurrence	Bumthang Chhukha		Dagana	Gasa	Haa Ll	Haa Lhuentse Monggar	onggar	Paro (Pema Gatshel	Punakha S	Samdrup Jongkhar	Samtse S	Sarpang Th	Thimphu Trashigang		Trashi T Yangtse T	Trongsa T	Tsirang Wa	Wangdue 7 Phodrang 7	Zhemgang	Total
Bumthang	66	4	3	0	0	—	12	-	7	_	4	4	2	_	22	9	19	2	4	5	203
Chhukha	4	194	36	0	4	13	28	17	38	2	22	135	25	4	45	13	2	25	9	13	632
Dagana	_	က	71	0	0	—	2	0	—	0	2	3	0	—	0	0	0	c	_	0	89
Gasa	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Haa	0	3	4	0	44	_	3	2	2	c	4	6	—	0	4	_	0	_	2	4	88
Lhuentse	0	0	0	0	0	49	4	0	2	_	0	-	0	0	ĸ	2	0	0	0	_	63
Monggar	2	00	4	_	0	102	426	4	22	2	20	1	4	4	83	40	2	4	2	6	789
Paro	2	19	14	_	13	4	10	64	4	15	13	18	4	က	23	10	m	13	80	8	249
Pema Gatshel	0	_	2	0	0	0	2	0	77	0	∞	—	—	0	11	2	0	_	0	4	110
Punakha	_	2	9	9	4	က	2	3	2	62	7	2	0	_	က	0	7	œ	12	4	139
Samdrup Jongkhar	—	က	2	0	0	7	18	←	35	2	209	_∞	7	—	31	=======================================	2	2	0	9	344
Samtse	2	15	18	—	∞	9	15	က	16	7	7	337	14	_	16	2	0	6	9	80	489
Sarpang	1	11	31	0	c	6	27	2	36	7	27	24	340	c	35	13	12	75	11	98	796
Thimphu	91	255	267	16	88	139	223	337	186	211	197	235	152	295	328	139	125	194	288	148	3,914
Trashigang	7	10	2	0	—	16	38	2	22	0	28	9	_	0	377	78	က	ĸ	0	c	635
Trashi Yangtse	-	0	—	0	0	—	2	0	c	2	4	—	0	0	10	82	0	0	0	0	107
Trongsa	_	2	m	0	0	_	2	0	0	0	m	7	m	0	4	0	35	m	0	4	63
Tsirang	0	_	13	0	0	0	2	0	0	0	m	2	13	0	ĸ	0	0	66	3	2	144
Wangdue Phodrang	7	16	4	9	m	16	28	4	<u></u>	71	16	13	15	m	32	2	14	29	180	17	537
Zhemgang	0	0	0	0	0	0	2	0	0	0	0	0	2	0	ĸ	0	m	_	_	70	85
Outside Bhutan	6	9	4	0	2	41	∞	31	4	7	9	12	14	41	25	2	10	10	13	4	228
Total	239	553	528	38	173	378	860	484	539	391	610	830	601	358	1,058	412	238	485	540	396	9,711

Chapter 3 DATA QUALITY, TIMELINESS AND COMPLETENESS OF REGISTRATION

3.1 QUALITY OF DATA

The DCRC whose main function is to maintain the comprehensive registry of the population of Bhutan is supported by a computerized system called Bhutan Civil Registration System (BCRS). BCRS is a highly secured system and provides up-to-date and a continuous, real-time, and dynamic flow of information on all vital events occurring in the country.

Of the 14 web-based civil registration and census services, registration of new birth and registration of death are the core services the department performs. Birth and death can be registered at any time of the year at any registration point. It can also be registered during the Annual Census Program which is carried out between November and January. The accuracy and completeness of birth information collected are verified at different stages identified as Operator Level, Level 1, Level 2, and Approval Level. The registration of death however has three phases identified as Operator Level, Level 1, and Approval Level. The information is captured online into the BCRS.

The DCRC stores and manages the citizenship database and is the sole custodian of the BCRS. However, the department also shares data stored in its system with external agencies

like G2G, G2C, and corporate agencies through area network interlinking agencies for multifold purposes. This network is known as the Application Programming Interface (API) and is managed centrally by the Government Technology (GovTech) Agency.

3.1.1 Data Source

The dataset on live births and deaths were acquired separately from the DCRC and the data on total population figure was sourced from the population projection (2017-2047) report published by NSB. In the absence of cause-of-death data based on ICD coding, the information on the top ten leading cause of death is sourced from the annual health bulletin published by the Ministry of Health (MoH).

3.1.2 Data Quality Assessment

According to United Nations Principles and Recommendations, "The quality of vital statistics is measured according to completeness, correctness or accuracy, availability and timeliness" (UN, 2014). Therefore, quality control measures must be put in place in terms of four quality dimensions mentioned above. To ensure that the data acquired is error-free, each of the variables in the dataset were studied carefully and wherever required, data cleaning was

performed. The main thrust of the data quality assessment was to check for data inconsistency, its duplicates, erroneous recording on date of occurrence vis-à-vis the date of registration, duration of registration, missing information, and inconsistent values. Perhaps, it is obvious to have some duplicate entries which were cleaned, while some needed queries with civil registration officials to correct it. All erroneous entries were dealt following the nature of the error.

3.2 TIMELINESS OF REGISTRATION

The Citizen Act requires all births in Bhutan to be registered within one year after the event has occurred. For reporting purposes, delayed registration is considered to be an event (birth and death) registered after one year from the date of occurrence. As a result of these requirements, the registration trend has been increasing over the years. Of the total (9,711) registered births that occurred in 2022, 9,631 or 99.2% were registered within one year period, while only 0.8% live births were registered after one year period (delayed registration). The term registration here would mean the initiation of submitting the required forms/documents to the competent civil registry authority to register either the birth or the death / initiation of application online and not necessarily the end product (the approval of the registration).

Similarly, 98.6% of registered deaths (3,555) that occurred in 2022 were registered within one year period (Figure 3.2). Only 50 (1.4%) deaths registered after one year of occurrence.

The mean number of days taken to register an event (live births) was 158 days in 2022, while it took more than 200 days in 2016. The mean duration taken to register an event has decreased in 2022 by about 25 days compared to 2021 (183 days). In general, the events that have occurred in the past five years took about 175 days (almost 6 months) to register.

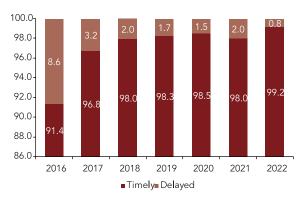


Figure 3.1 Timeliness of Registration of Live Births, [Bhutan, 2016-2022]

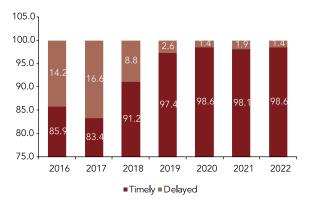


Figure 3.2 Timeliness of Registration of Deaths, [Bhutan, 2016-2022]

Table 3.1 Mean Duration of Registration, [Bhutan 2016-2022]

Year	Live births	Deaths
Tedi	Mean number of days	Mean number of days
2016	201	168
2017	169	164
2018	160	105
2019	162	65
2020	180	48
2021	183	49
2022	158	49

For the deaths, the mean number of days taken to register deaths was 49 days in 2022. The same event took 168 days in 2016. The pattern

in the past five years indicates that for the deaths registered, there is a drastic improvement in terms of duration taken to register the event.

3.3 COVERAGE AND REGISTRATION COMPLETENESS

In terms of geographic coverage, Bhutan has reached 100% for both birth and death registration. However, when it comes to its completeness rate, it remains comparatively low. Completeness is defined as a measure of the extent to which births and deaths that occur in the country each year are registered by the civil registration system.

The completeness of events can be used to monitor the performance of the civil registration system. It is computed by taking the registered events (births and deaths) from the BCRS as the numerator and expected events (births and deaths) estimated by NSB as the denominator.

Estimated number of vital events within the year

Table 3.2 Birth and Death Registration Completeness Rates, Bhutan 2022

	Births	Deaths
Registered	10,157	3,605
Estimate *	12,204	5,141
Completeness rate	83.2	70.1

*Source: Population projection

The table 3.2 presents the completeness rate for birth and death registration in Bhutan for the year 2022. Compared to death registration completeness, birth registration is better with 83.2% as against 70.1% for deaths in 2022.

3.3.1 Matrix of the Births by Year of Occurrence and Year of Registration

Generally, it is observed that most of the births that occur in a year are registered within the same year. However, there are instances where some births are registered in the following year.

Table 3.3 presents the matrix of births by year of occurrence and year of registration for the period 2016-2022. Out of the total registered births (9,711), 5,670 were registered in the same year while the remaining were registered in the following years.

Table 3.3 Matrix of the Births by Year of Occurrence and Year of Registration, 2016-2022

					Yea	r of registr	ation				Total
	Years	2016	2017	2018	2019	2020	2021	2022	2023	Not stated	IOLAI
	2016	4,536	4,838	325	15	27	322	26	30	1,338	11,457
	2017	0	5,162	4,615	56	23	326	29	43	987	11,241
	2018	0	0	6,002	4,678	76	223	30	58	337	11,404
occurence (Births)	2019	0	0	0	5,463	4,240	182	50	85	255	10,275
occurence (Births)	2020	0	0	0	0	4,533	5,551	124	134	280	10,622
	2021	0	0	0	0	0	5,230	5,410	266	160	11,066
	2022	0	0	0	0	0	0	5,670	4,466	21	10,157
	Total	4,536	10,000	10,942	10,212	8,899	11,834	5,669	4,251	3,326	69,669

Table 3.4 Matrix of the Births by Year of Occurrence and Year of Registration, 2016-2022

					Year of reg	gistration				Total
	Years	2016	2017	2018	2019	2020	2021	2022	2023	IUldi
	2016	2,501	663	221	125	31	10	19	17	3,587
	2017	0	2,311	742	249	65	35	36	27	3,465
Occurance (Deaths)	2018	0	0	2,509	700	155	25	70	48	3,507
Occurence (Deaths)	2019	0	0	0	2,654	566	51	92	65	3,428
	2020	0	0	0	0	2,655	454	75	51	3,235
	2021	0	0	0	0	0	2774	413	55	3,242
	2022	0	0	0	0	0	0	3201	404	3,605
	Total	2,501	2,974	3,472	3,728	3,472	3,349	3,906	667	24,069

Table 3.5 Birth and Death Registration Completeness over time

Year	Registered Births	Estimated birth	Completeness (%)	Registered deaths	Estimated death	Completeness (%)
2016	10,605	12,359	85.8	3,551	5,185	68.5
2017	10,754	12,342	87.1	3,402	5,178	65.7
2018	11,519	12,390	93.0	3,389	5,095	66.5
2019	10,384	12,407	83.7	3,271	5,105	64.1
2020	10,416	12,331	84.5	3,109	5,115	60.8
2021	10,755	12,306	87.4	3,187	5,127	62.2
2022	10157	12204	83.2	3,605	5,141	70.1

Source: Estimated birth and death from Population projection (2017-2047), NSB

3.3.2 Matrix of the Deaths by Year of Occurrence and Year of Registration

Table 3.4 presents the matrix of deaths by year of occurrence and year of registration for the years 2016-2022. Out of the total registered deaths that occurred in the year 2022 (3,605), a majority (3,201) of them were registered in the same year and only 404 deaths were registered in the following year (2023).

3.3.3 Completeness Rates over Time

The data on number of vital events that occurred has been updated *till 31st December 2023*. The completeness rate for both birth and death registration has remained steady over the years (table 3.5). However, in 2018 the completeness rate for birth registration was comparatively high (93.0%). The subpopulations that are most likely to be undercounted in vital registration are fetal and infant deaths and deaths below 8 years of age.

Chapter 4 LIVE BIRTHS

In 2022, there were a total of 10,157 registered births which is a decrease of 5.5 % compared to 10,755 live births in 2021. Since most of the critical information is missing for 446 registered births, only 9,711 births were considered for the analysis in the following chapters. However, in the computation of completeness rate, the actual number of registered births was taken as it qualifies to be considered as registered birth. The Crude Birth Rate in 2022 is 13.3 per thousand population.

There were more males than females. Out of the total live births in 2022, 5,144 were males and 5,013 were females giving a sex ratio of 103. The sex ratio at birth is calculated as the number of males per 100 females. The number usually ranges between 103-107 males per 100 females. Numbers very different from this range may indicate errors in registration procedures

since Bhutan does not have preference for male births over female births.

The highest number of births occurred in 2018 with 11,368 live births in past seven years.

In all the years, the number of registered live births for males is higher than for females.

4.1 COMPLETENESS OF BIRTH REGISTRATION

Completeness is defined as the proportion of actual vital events in a population that are registered, divided by the estimated number of vital events that occurred in the same year. For this report, the births registered by BCRS (numerator) were compared with the projected number of live births from the 2017 PHCB (denominator). As shown in table 4.2, birth registration completeness rate was found to be

Table 4.1 Summary Statistics on Fertility by Year of Occurrence

Indicator	2016	2017	2018	2019	2020	2021	2022
Registered live births (number)	10,457	10,612	11,368	10,186	10,240	10,755	10,157
Males	5,400	5,423	5,753	5,191	5,266	5,452	5,144
Females	5,057	5,189	5,615	4,995	4,974	5,303	5,013
Sex ratio at birth	107	105	102	104	106	103	103
Crude birth rate (per 1,000 population)	14.4	14.6	15.5	13.7	13.7	14.2	13.3
Population*	726,596	727,145	734,374	741,672	748,931	756,129	763,249

^{*} National Population Projection Report 2017-2047

Table 4.2 Birth Registration Completeness, Bhutan 2022

Live Births	Registered Number	Expected Number	Registration Completeness
Total	10,157	12,204	83.2
Male	5,144	6,222	82.7
Female	5,013	5,982	83.8

83.2% at the national level with an insignificant difference between males and females (82.7% and 83.8%, respectively).

4.2 BIRTHS BY MONTH OF OCCURRENCE

The number of births varied seasonally with a peak observed during the winter months in all the years under study. In 2022, the maximum number of births was observed in August (9.8%). The lowest rate was observed in the month of November with 7.3%.

4.3 BIRTHS BY MONTH OF REGISTRATION

Of the total births (9,711) that occurred in 2022, most of them were registered in the months of December (10.7%) followed by March (9.2%). The lowest birth registration was recorded in the months of April and May with 7.3% each.

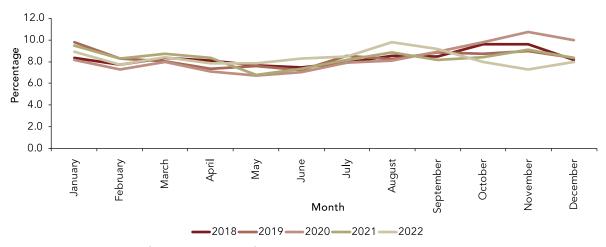


Figure 4.1 Percentage of Births by Month of Occurrence, Bhutan 2018-2022

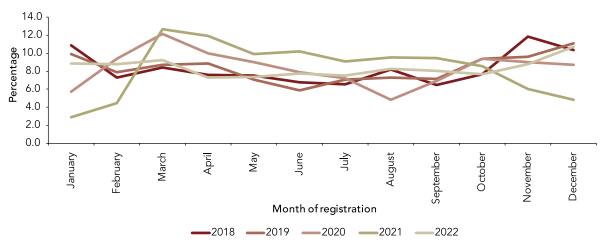


Figure 4.2 Percentage of Births by Month of Registration, Bhutan 2018-2022

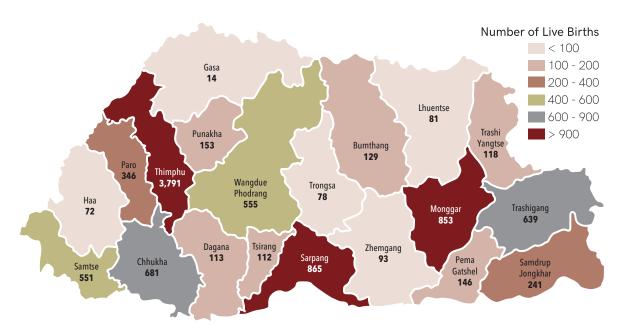


Figure 4.3 Number of Births by Place of Occurrence, Bhutan 2022

4.4 BIRTHS BY PLACE OF OCCURRENCE

The figure 4.3 presents the map of the distribution of live births by *dzongkhag* for 2022. It was observed that the two highest births have occurred in the *dzongkhags* where the tertiary hospitals are located: Thimphu (3,914), Sarpang (796) and Monggar (789). On the other hand, the lowest birth has occurred in Gasa with only 7 births in 2022.

4.5 BIRTHS BY PLACE OF USUAL RESIDENCE OF MOTHER

Looking at the births by place of mother's place of usual residence, it is observed that most of the mothers who gave birth usually resides in Thimphu (23.9%) followed by in Chhukha (8.1%), Samtse (6.5%) Dzongkhags. About 0.4% of mother resides Gasa Dzongkhag and 0.3% lives outside Bhutan. 1.5% of the mother didn't record their usual place of residence.

Table 4.3 Number of Births by Place of Occurrence and Sex, Bhutan 2022

Diamet Occurrence	Sex				
Place of Occurrence	Male	Female	Total		
Bumthang	98	105	203		
Chhukha	312	320	632		
Dagana	40	49	89		
Gasa	3	4	7		
Haa	46	42	88		
Lhuentse	32	31	63		
Monggar	395	394	789		
Paro	131	118	249		
Pema Gatshel	56	54	110		
Punakha	71	68	139		
Samdrup Jongkhar	164	180	344		
Samtse	225	264	489		
Sarpang	405	391	796		
Thimphu	2,013	1,901	3,914		
Trashigang	305	330	635		
Trashi Yangtse	58	49	107		
Trongsa	35	28	63		
Tsirang	78	66	144		
Wangdue Phodrang	292	245	537		
Zhemgang	43	42	85		
Outside Bhutan	103	125	228		
Bhutan	4,905	4,806	9,711		

Table 4.4 Number of Births by Place of Usual Residence of Mother, Bhutan 2022

Place of Usual Residence		Sex		Damana
of Mother	Male	Female	Total	Percent
Bumthang	126	103	229	2.4
Chhukha	406	385	791	8.1
Dagana	156	151	307	3.2
Gasa	19	18	37	0.4
Наа	72	55	127	1.3
Lhuentse	119	106	225	2.3
Monggar	298	315	613	6.3
Paro	297	290	587	6.0
Pema Gatshel	134	144	278	2.9
Punakha	165	170	335	3.4
Samdrup Jongkhar	214	236	450	4.6
Samtse	298	337	635	6.5
Sarpang	269	259	528	5.4
Thimphu	1,173	1,151	2,324	23.9
Trashigang	295	291	586	6.0
Trashi Yangtse	135	119	254	2.6
Trongsa	109	80	189	1.9
Tsirang	127	110	237	2.4
Wangdue Phodrang	286	272	558	5.7
Zhemgang	129	124	253	2.6
Outside Bhutan	7	20	27	0.3
Not Stated	71	70	141	1.5
Bhutan	4,905	4,806	9,711	100.0

4.6 SEX RATIO AT BIRTH

Table 4.5 presents sex ratio at birth by region. In 2022, the sex ratio at birth is 102 males per 100 females. In the central region, the sex ratio at birth is 103 males per 100 females, compared to 104 males per 100 females in western region and 97 males per 100 females in the eastern region. The sex ratio for births taking place outside Bhutan is 82. Unlike in some other countries where the sex ratio is greatly influenced by the preference of male births over female births, Bhutan does not have any such preferences and higher/lower sex ratio in any dzongkhag is a natural phenomenon.

4.7 BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF USUAL RESIDENE OF MOTHER

The number of births by place of occurrence and mother's usual place of residence is used

Table 4.5 Sex Ratio at Birth, Bhutan 2022

Place of		Sex		Sex Ratio at Birth
Occurrence	Male	Female	Total Births	Sex Ratio at birtii
West	3,093	2,962	6,055	104
Central	699	681	1,380	103
East	1,010	1,038	2,048	97
Outside Bhutan	103	125	228	82
Total	4,905	4,806	9,711	102

to obtain information on whether mothers gave birth in the same place of residence where they usually resided or whether it was in another place.

It is observed that about 51.4% of mothers gave birth in the place where they usually reside, while almost 48.6% of mothers travelled to another place for delivery (Figure 4.4).

In 2022, a total of 2,139 mothers gave birth in Thimphu where it was not their usual place of residence. Likewise, Sarpang (407) and Monggar

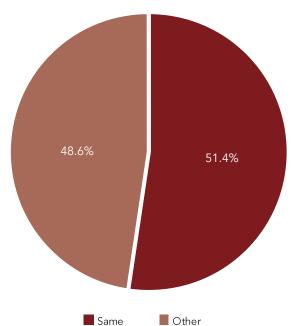


Figure 4.4 Percentage of Births by Place of Occurrence and Place of Usual Residence of Mother, Bhutan 2022

Table 4.6 Number of Births by Age of Mother, Bhutan 2022

Mathada Ara		Sex		Daveant
Mother's Age	Male	Female	Total	Percent
<=19	71	71	142	1.5
20-24	978	892	1,870	19.3
25-29	1,609	1,563	3,172	32.7
30-34	1,407	1,463	2,870	29.6
35-39	641	631	1,272	13.1
40-44	173	160	333	3.4
45+	26	26	52	0.5
Total	4,905	4,806	9,711	100.0

(352) *Dzongkhags* also observed the similar pattern. However, there were also large number of births that occurred in the same *dzongkhag* where the mother usually resides (Table B2). There is a substantial number of births taking place outside Bhutan (215) where it is not their usual place of residence.

4.8 BIRTHS BY AGE OF MOTHER

Table 4.6 presents the distribution of registered births that occurred in 2022 by age of mother. The highest percentage (32.7%) of births have occurred among the mothers whose age ranges between 25 and 29 years, followed by 29.6% in the ages 30-34 years.

4.9 BIRTHS BY SITE OF OCCURRENCE

With increased accessibility to medical facilities, the majority of the births in 2022 took place at a health facility (98.8%) followed by some births taking place at home (1.1%). Almost negligible births took place at other places, which includes births on the way to health facility and elsewhere

4.10 BIRTHS BY BIRTH WEIGHT

As per the UN *Principles and Recommendations* for a Vital Statistics System, birth weight is the first weight of a fetus or newborn obtained immediately after birth, preferably within the first hour of life.

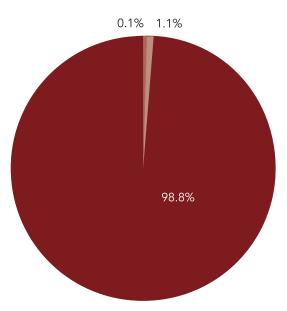


Figure 4.5 Percentage of Births by Site of Occurrence, Bhutan 2022

The World Health Organization (WHO) defines low birthweight as the weight of a newborn lower than 2,500 grams. In 2022, of the total (9,711) births, 91.8% weighed above the low birthweight cut-off recommended by WHO, while about 7.8% of the births fall in the low birthweight category (Figure 4.6). 0.4% of the total registered births didn't record birth weight.

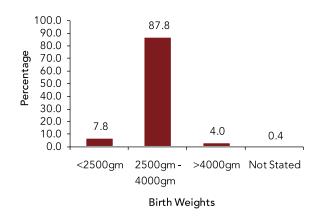


Figure 4.6 Percentage Distribution of Births by Birth Weight, Bhutan 2022

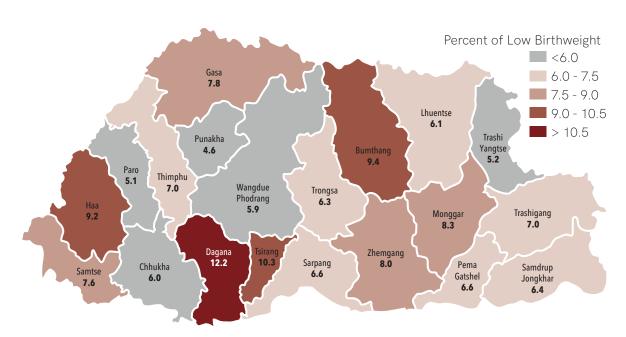


Figure 4.7 Percentage of Low Birthweight and Place of Usual Residence of Mother, Bhutan 2022

Table 4.7 Percentage of Births by Site of Occurrence and Birth Weight, Bhutan 2022

Site of Occurrence		0gm	2500gm-4000gm		>4000gm		Not Stated		Total	
Site of Occurrence	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers	Percent
Health Facility	742	7.7	8,436	87.9	390	4.1	30	0.3	9,598	100.0
Home	14	13.3	86	81.9	2	1.9	3	2.9	105	100.0
Others	1	12.5	6	75.0	0	0.0	1	12.5	8	100.0
Total	757	7.8	8,528	87.8	392	4.0	34	0.4	9,711	100.0

4.10.1 Birth Weight by Place of Usual Residence of Mother

Of the total births within *dzongkhags*, most of the mother who gave low birthweight birth resides in Gasa (21.6%) followed by Monggar (10.7%) and Sarpang (9.8%) Dzongkhags. On the contrary, mothers residing in Tsirang (5.1%) Dzongkhag had the lowest percentage of low birth weight births in 2022. There is no low birth weight for child born outside Bhutan.

4.10.2 Birth Weight by Site of Occurrence

In 2022, most of the birth have occurred at a health facility (98.8%) while about 1.08 % of the

births have occurred at home. About 13.3% of births occurring at home are low birth weight while about 7.7% (742) of birth occurring in the health facility are low birth weight.

4.10.3 Birth Weight by Age of Mother

Most (81.4%) of the mothers are between ages 20 and 34. Table 4.8 presents the age of the mother and the birth weights. Around 15.4% of the births in the 45+ years of age of mother are low birthweight as compared to about 7.1% of births for mothers in the age group 30-34 years. Similarly, the births to mothers below 19 years of age also had a high percent (14.8%) of low weight births.

Table 4.8 Birth Weight by Age of Mother, Bhutan 2022

Mother's Age	<2500)gm	2500gm-4	1000gm	>4000)gm	Not Sta	ited	Tota	ıl
Group	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<=19	21	14.8	120	84.5	1	0.7	0	0.0	142	100.0
20-24	169	9.0	1,645	88.0	51	2.7	5	0.3	1,870	100.0
25-29	227	7.2	2,814	88.7	119	3.8	12	0.4	3,172	100.0
30-34	205	7.1	2,517	87.7	138	4.8	10	0.3	2,870	100.0
35-39	95	7.5	1,104	86.8	66	5.2	7	0.6	1,272	100.0
40-44	32	9.6	285	85.6	16	4.8	0	0.0	333	100.0
45+	8	15.4	43	82.7	1	1.9	0	0.0	52	100.0
Total	757	7.8	8,528	87.8	392	4.0	34	0.4	9,711	100.0

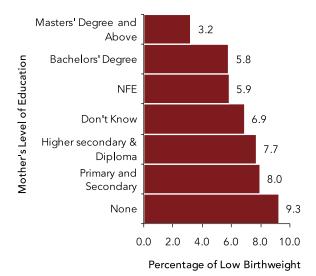


Figure 4.8 Percentage of Low Birthweight by Mother's Level of Education, Bhutan 2022

4.10.4 Birth Weight by Mothers Level of Education

Figure 4.8 presents the percentage of births with low birthweight and mother's level of education. Of the 2,105 births, a total of 195 child were born with low birth weights to mothers who have no education which accounts for about 9.3% of

Table 4.9 Birth Type by Mother's Age, Bhutan 2022

Mother's Age	Single	Twin	Total
<=19	142	0	142
20-24	1,854	18	1,870
25-29	3,108	64	3,172
30-34	2,840	30	2,870
35-39	1,252	18	1,272
40-44	331	2	333
45+	50	2	52
Total	9,577	134	9,711

the mothers in that education category.

4.11 BIRTHS BY TYPE OF BIRTH

Of the total of 9,711 births in 2022, 9,577 birth were single births, while 134 are twin births. Most of the twin births were to the mothers of age 20-39 years.

About 61.2% of twin births were with low birthweight, while only about 7.0% of the single births fall under the low-birthweight category. (Table 4.10).

Table 4.10 Percentage of Births by Birth Type and Birth Weight, Bhutan 2022

Dinth Tone	<2500 gm		<2500 gm 2500-4000 gm		>4000 gm		Not Stated		Total	
Birth Type	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers	Percent
Single	675	7.0	8,482	88.6	392	4.1	28	0.3	9,577	100.0
Twin	82	61.2	46	34.3	0	0.0	6	4.5	134	100.0
Total	757	7.8	8,528	87.8	392	4.0	34	0.4	9,711	100.0

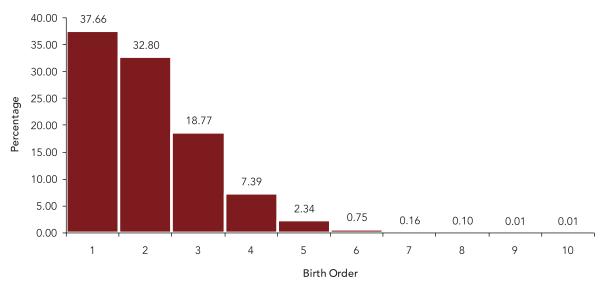


Figure 4.9 Percentage of Births by Birth Order, Bhutan 2022

4.12 BIRTHS BY BIRTH ORDER

About 38% of the births in 2022 were of first (child) order birth followed by 32.8% second order birth. With the increasing birth order, the number of births reduces. There were 1 birth with birth order 9 and 10 in 2022.

4.13 BIRTH INTERVAL

The birth interval is the time in months between the last delivery of a live birth and the previous date of delivery. Information on birth interval may be collected directly or calculated using the data. For this report, the birth interval was calculated based on the date of birth of the last birth and the previous birth of the same mother.

In 2022, out of the total 9,711 live births 3,657 births are of the first order. The birth interval of the rest of the 6,054 births are presented in table 4.11.

A little more than a third (34.2%) of the births occurred between 5 to 9 years after the previous birth, followed by after 10 years (17.9%) of the previous birth. There were only few births that have occurred within 12 months (1.2%) of the previous birth.

Table 4.11 Interval between Last Birth and Previous Live Birth, Bhutan 2022

Birth Interval	Numbers	Percent
Less than 12 months	71	1.2
12-17 months	109	1.8
18-23 months	275	4.5
24-29 months	334	5.5
30-35 months	379	6.3
3 years	862	14.2
4 years	865	14.3
5-9 years	2,073	34.2
>10 years	1,086	17.9
Total	6054	100.0

A high proportion (48.8%) of births with birth interval lower than 12 months falls under the underweight category as compared to the other birth interval with more than 12 months birth intervals (Table B8).

4.14 AGE SPECIFIC FERTILITY RATE

The Age Specific Fertility Rates (ASFR) is computed using the births from the BCRS and the total number of mothers in the age range 15-49 years from the population estimates of

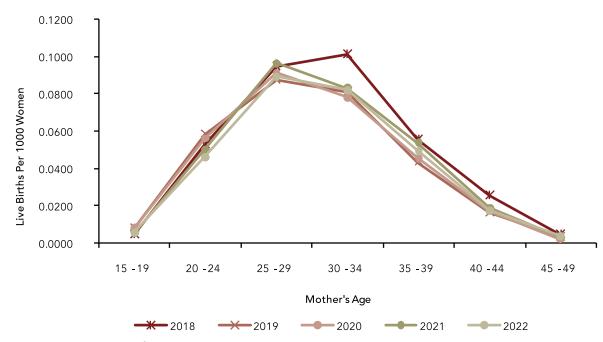


Figure 4.10 Age Specific Fertility Rates, Bhutan 2018-2022

the NSB. Within the range of 15-49 years, there are marked differences in the fertility of women of different ages. For this reason, it is customary to calculate fertility rates for each age group. Typically, the age specific rates are low or moderate in the 15-19 age group, highest in the twenties, and then decline to moderate levels for women in their thirties. Rates after 39 years are usually low.

The figure 4.10 presents ASFR for 2018-2022. It is observed that the highest fertility rate was among mothers of age group 25-29 and 30-34 years and thereafter it declines gradually. It also indicates the delay in giving births as well as the increase in age at marriage.

Chapter 5 DEATHS

The number of deaths in 2022 was 3,605, which is an increase of 13.1% as compared to 3,187 in 2021. There were more deaths among males than females. Out of the total deaths, 1,938 were males and 1,667 were females. The Crude Death Rate (CDR) has increased from 4.2 in 2021 to 4.7 in 2022 per 1,000 population. The calculated CDR using the observed data from CRVS was about 5 deaths per 1000 population in 2022.

5.1 COMPLETENESS OF DEATH REGISTRATION

Completeness is defined as the proportion of actual vital events in a population that are registered, divided by the estimated number of vital events that occurred in the same year. For this report, deaths registered by BCRS (numerator) were compared with the projected number of deaths from the 2017 PHCB (denominator). As shown in table 5.2, death registration completeness rate was found to be 70.1% at the national level. The completeness rate for male (68.2%) is lesser than their counterpart (72.5%).

Table 5.1 Summary Statistics on Mortality by Year of Occurrence

Indicator	2016	2017	2018	2019	2020	2021	2022
Registered deaths (number)	3,541	3,367	3,364	3,220	3,109	3,187	3,605
Males	1,953	1,836	1,833	1,770	1,729	1,747	1,938
Females	1,588	1,531	1,531	1,450	1,380	1,440	1,667
Population*	726,596	727,145	734,374	741,672	748,931	756,129	763,249
Crude death rate (per 1,000 population)	4.9	4.6	4.6	4.3	4.2	4.2	4.7

^{*} Population projection Report 2017-2047

Table 5.2 Death Registration Completeness, Bhutan 2022

Deaths	Registered Number	Expected Number	Registration Completeness
Total	3,605	5,141	70.1
Males	1,938	2842	68.2
Females	1,667	2299	72.5

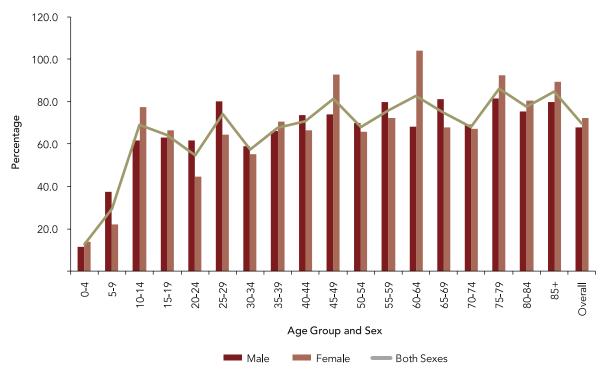


Figure 5.1 Death Registration Completeness by Age Group and Sex, Bhutan 2022

By age group and sex, the highest proportion of death is registered in the age group 75-79 with a completeness rate of 86.4%, and the lowest registration is observed in age group 0-4 with 12.7%. The death registration completeness for age group less than 8 years is 7.2% and registration completeness is better for person aged 8 years and above with 67.9%. Overall, the death registration is better among females than males (Figure 5.1).

5.2 TIMELINESS OF DEATH REGISTRATION

The Citizen Act does not specify a prescribed timeline by which the death of a citizen should be registered. However, most of the family members register the death of a person within one year after the event has occurred. By duration of registration between the date of occurrence and date of registration, it was observed that most deaths were registered within one month after

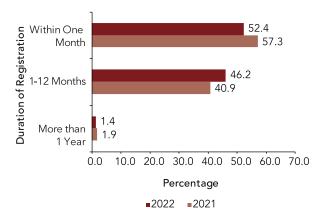


Figure 5.2 Duration of Registration between Date of Occurrence and Date of Registration, Bhutan 2021-2022

the occurrence of the event. However, there are also deaths that are registered even after one year of the occurrence of the event with 1.4% in 2022.

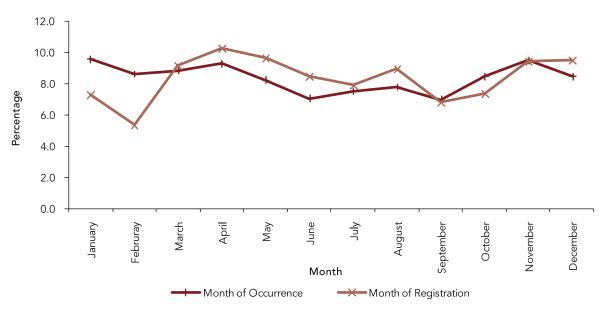


Figure 5.3 Percentage of Deaths by Month of Occurrence and Month of Registration, Bhutan 2022

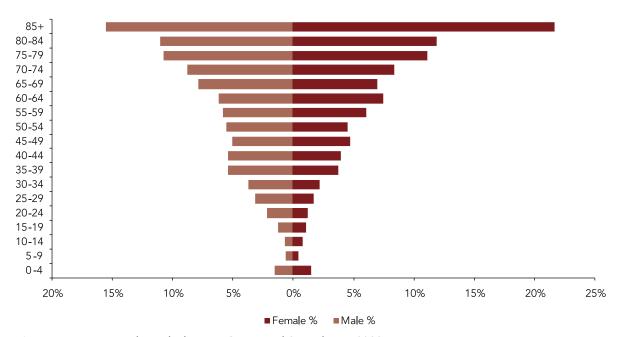


Figure 5.4 Registered Deaths by Age Group and Sex, Bhutan 2022

5.3 DEATHS BY MONTH OF OCCURRENCE AND MONTH OF REGISTRATION

Figure 5.3 presents the percentage of deaths by month of occurrence and month of registration for 2022. Over time, there have been fluctuations

in the number of deaths registered, with a peak observed during April followed by a drop in May. From there, the numbers steadily decreased until July before rising again in August. The numbers decreased until October, after which they began to rise again in November. For the

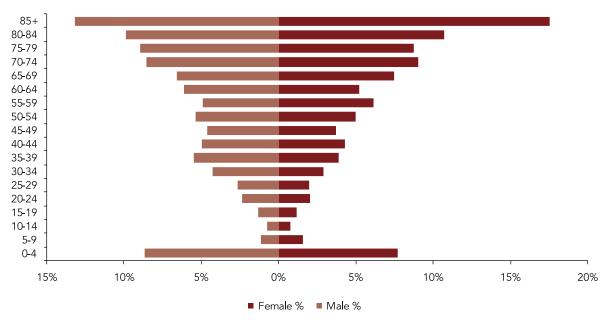


Figure 5.5 Estimated Deaths by Age Group and Sex, Bhutan 2022

occurrence of the event, it is observed that the percentage of death have been consistent with the peak observed in the month of January. The lowest rate of death registration in the month of

4.1%

45.5%

50.4%

Health Facility

Home

Others

Figure 5.6 Percentage of Deaths by Site of Occurrence, Bhutan 2022

March maybe due to the lockdown imposed all around the country due to COVID-19.

5.4 DEATHS BY AGE AND SEX

Figure 5.4 presents the registered deaths by age group and sex of the decedent for the year 2022. Of the registered deaths that occurred in 2022, 1,938 were males and 1,667 females.

In most of the age groups the proportion of deaths is higher for males than females. The death registered for the age group less than 8 years is very low in comparison (figure 5.5).

5.5 DEATHS BY SITE OF OCCURENCE

Figure 5.6 presents the percentage of deaths by site of occurrence for the year 2022. It indicates that more deaths occurred at home (50.4%) than in the hospitals (45.5%), while about 4.1% of the deaths occurred elsewhere (on the way to hospital, unknown places, etc).

5.6 DEATHS BY SITE OF OCCURRENCE AND PLACE OF OCCURRENCE

The majority of deaths in 2022, totalling 50.4%, occurred at home. Across most *Dzongkhags*, a higher proportion of deaths were reported to have occurred at home. However, in Thimphu (83.3%), and among deaths occurring outside of Bhutan (77.2%), the majority occurred at health facilities (Table 5.3)

5.7 AGE SPECIFIC DEATH RATE

The percent distribution of deaths by age group is affected by a population's age structure. Different age groups in population are exposed to different risk of dying because of their occupation or their age or some other characteristic. Because of these differentials in exposure to the risk of dying, age specific death is computed to understand this.

Figure 5.7 presents the pattern of age specific death rates for Bhutan in 2022. Generally, the mortality rate is little high at infancy, low during childhood, stable during the adulthood and then it increases gradually for all ages in both the sexes. It is also a common phenomenon to have a higher death rate for males compared to their female counterparts.

Table 5.3 Percentage of Deaths by Place of Occurrence and Site of Occurrence, Bhutan 2022

	Site	of Occurren	се	
Place of Occurrence	Health Facility	Home	Other	Total
Bumthang	26.9	69.2	3.8	100.0
Chhukha	40.4	51.1	8.4	100.0
Dagana	32.0	61.5	6.6	100.0
Gasa	5.6	83.3	11.1	100.0
Наа	29.6	68.5	1.9	100.0
Lhuentse	15.7	74.3	10.0	100.0
Monggar	53.3	43.7	3.1	100.0
Paro	39.3	58.3	2.5	100.0
Pema Gatshel	17.2	77.2	5.5	100.0
Punakha	37.5	58.3	4.2	100.0
Samdrup Jongkhar	40.2	58.1	1.7	100.0
Samtse	25.6	68.8	5.6	100.0
Sarpang	47.4	49.1	3.4	100.0
Thimphu	83.3	16.2	0.5	100.0
Trashigang	38.3	57.6	4.1	100.0
Trashi Yangtse	17.0	78.7	4.3	100.0
Trongsa	21.7	68.1	10.1	100.0
Tsirang	33.7	57.4	8.9	100.0
Wangdue Phodrang	31.0	66.3	2.7	100.0
Zhemgang	23.0	72.6	4.4	100.0
Outside Bhutan	77.2	5.3	17.5	100.0
Not Stated	47.6	42.9	9.5	100.0
Bhutan	45.5	50.4	4.0	100.0

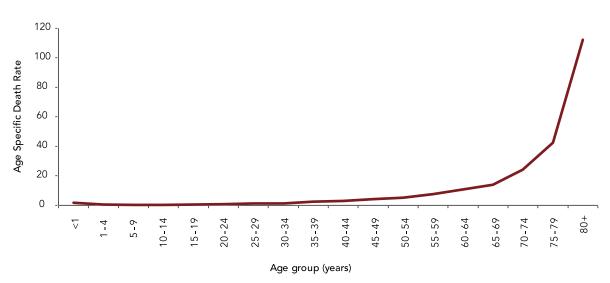


Figure 5.7 Age Specific Death Rates, Bhutan 2022

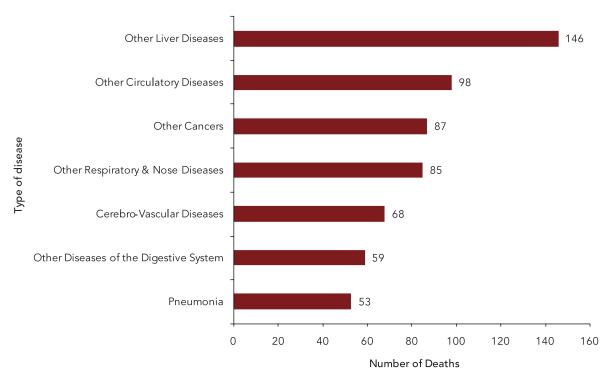


Figure 5.8 Top Causes of Death as Reported by the Health Facilities, Bhutan 2022 Source: Annual Health Bulletin, 2023

5.8 TOP TEN CAUSES OF DEATH

According to Annual Health Bulletin 2023 (AHB), other Liver Diseases (146) is the leading cause of death in 2022 followed by other circulatory diseases (98), other cancer (87), and respiratory & nose diseases (68). The data was collected from health facilities in the country.

The data suggests that liver disease is the most significant contributor to mortality in 2022. It is important for health authorities to prioritize measures that reduce alcohol-related mortality.

Chapter 6 SUMMARY TABLES

Table 6.1 presents the number of vital events by place of occurrence for the year 2022. In 2022, more births have occurred in *dzongkhags* Thimphu (3,914), Sarpang (796) and Monggar (789). In terms of death by place of occurrence, Thimphu (766) still recorded the highest number followed by Trashigang (295) and Samtse (285) dzongkhags. More infant deaths were observed in Thimphu and Monggar.

6.1 VITAL EVENTS

Table 6.2 shows the CBR, CDR and population growth rates for years 2016-2022. Although, the crude birth rate is not a refined measure of fertility, most other fertility measures show this pattern. The indicator is widely used to indicate the overall effect of fertility and it could be estimated with minimum data requirements. The difference of CBR and CDR indicates the tempo of how much our population is increasing or decreasing. This can help guide our policy makers and planner in planning socio-economic development to make population related policies. The CBR showed an increase from 2016 to 2018, followed by a stable trend in 2019 and 2020, then increase in 2021 and decrease in 2022.

The estimated population growth rate for the year 2022 is 0.86 which is a decrease 8.5% from 2022.

Table 6.1 Number of Vital Events, Bhutan 2022

Diamark O		2022	
Place of Occurrence	Live Births	Deaths	Infant Deaths
Bumthang	203	78	0
Chhukha	632	178	1
Dagana	89	122	0
Gasa	7	18	1
Наа	88	54	1
Lhuentse	63	70	0
Monggar	789	261	4
Paro	249	163	2
Pema Gatshel	110	145	2
Punakha	139	120	0
Samdrup Jongkhar	344	179	2
Samtse	489	285	0
Sarpang	796	232	2
Thimphu	3,914	766	4
Trashigang	635	295	0
Trashi Yangtse	107	94	0
Trongsa	63	69	0
Tsirang	144	101	0
Wangdue Phodrang	537	184	1
Zhemgang	85	113	1
Outside Bhutan	228	57	1
Not Stated	0	21	0
Bhutan	9,711	3,605	22

Table 6.2 Vital Rates, Bhutan 2016-2022

Year	CBR	CDR	Population	PGR
2016	13.4	4.9	726,596	0.85
2017	13.5	4.6	727,145	0.89
2018	14.6	4.6	734,374	1.00
2019	13.0	4.3	741,672	0.87
2020	13.0	4.2	748,931	0.88
2021	13.6	4.2	756,129	0.94
2022	13.3	4.7	763,249	0.86

6.2 BIRTHS BY PLACE OF USUAL RESIDENCE OF MOTHER

The place of usual residence is the place where the person usually resides. The number of births by place of residence is useful for planning services such as the health, education, and housing.

Most of the mother who have given birth in the year 2016-2022 usually resides in Thimphu followed by Chhukha, Samtse and Trashigang Dzongkhag. A little less than 1.0% resides in Gasa Dzongkhag.

 Table 6.3
 Number of Births by Place of Usual Residence of Mother, Bhutan 2016-2022

Place of Usual Residence of Mother	2016	2017	2018	2019	2020	2021	2022	Total
Bumthang	264	244	258	235	235	245	229	1,710
Chhukha	731	735	816	727	782	885	791	5,467
Dagana	351	342	361	350	337	348	307	2,396
Gasa	61	47	51	62	51	53	37	362
Наа	147	172	153	133	142	153	127	1,027
Lhuentse	234	254	292	238	229	199	225	1,671
Monggar	635	574	695	623	580	576	613	4,296
Paro	526	508	558	522	590	604	587	3,895
Pema Gatshel	275	295	362	304	273	321	278	2,108
Punakha	332	366	342	315	351	363	335	2,404
Samdrup Jongkhar	478	467	504	503	481	505	450	3,388
Samtse	699	710	696	632	659	723	635	4,754
Sarpang	485	477	522	472	482	554	528	3,520
Thimphu	1,833	1,823	2,182	1,909	2,111	2,475	2,324	14,657
Trashigang	660	632	703	668	657	605	586	4,511
Trashi Yangtse	238	296	322	257	289	255	254	1,911
Trongsa	248	246	276	228	237	261	189	1,685
Tsirang	274	258	236	242	273	276	237	1,796
Wangdue Phodrang	568	576	602	528	524	585	558	3,941
Zhemgang	258	273	313	265	301	225	253	1,888
Not Stated	421	546	467	454	185	37	168	2,278
Bhutan	9,718	9,841	10,711	9,667	9,769	10,248	9,711	69,665

ANNEXURE I: LIST OF STATISTICAL TABLES

 Table B1
 Births by Month of Occurrence and Month of Registration, Bhutan 2022

Menth of Oscario						Month of Registration	egistration						F
	January	February	March	April	May	June	July	August	September	October 0	November	December	Iotal
January	30	14	87	63	112	139	108	66	63	42	46	34	870
February	30	29	52	78	93	100	85	88	61	49	43	43	751
March	41	34	39	48	93	109	102	92	66	51	20	62	820
April	32	29	28	18	29	84	104	86	92	80	99	79	765
May	44	34	33	26	22	22	78	112	108	87	98	81	766
June	79	28	41	30	23	28	45	82	113	109	95	106	808
July	82	69	22	38	30	25	29	22	4	106	116	119	826
August	111	132	110	20	32	21	20	33	54	06	134	167	954
September	129	125	103	69	38	29	26	27	27	29	106	152	890
October	109	111	115	73	29	42	29	27	16	28	09	111	777
November	100	120	107	76	28	20	36	37	19	21	22	62	708
December	99	66	126	107	100	29	64	45	29	23	27	23	775
Total	855	854	968	706	713	749	726	797	778	745	853	1,039	9,711

 Table B2
 Births by Place of Occurrence and Place of Usual Residence of Mother, Bhutan 2022

	Total	203	632	88	7	88	63	789	249	110	139	344	489	962	3914	635	107	63	144	537	82	228	9711
	Not Stated	က	1	0	0	0	—	4	9	_	0	7	7	14	62	2	7	—	_	10	—	2	141
	Outside Bhutan	0	∞	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	_	0	0	13	27
	Zhemgang	33	9	0	0	2	<u></u>	9	2	←	0	co	4	99	76	2	0	<u></u>	2	7	29	_	253
	Wangdue Zh Phodrang Zh	4	2	2	0	_	<u></u>	12	7	2	14	2	3	12	227	3	7	0	4	256	0	—	558
	Tsirang	0	9	2	0	0	0	co	2	0	က	7	2	46	64	4	0	0	74	22	0	—	237
	Trongsa 1	17	7	<u></u>	0	0	—	က	4	2	—	4	0	7	76	2	0	46	<u></u>	14	<u></u>	2	189
	Trashi - Yangtse	—	c	0	0	0	0	27	2	—	0	က	—	6	44	73	83	0	0	2	0	2	254
	Trashigang 1	2	15	0	0	0	0	54	10	9	2	12	2	6	94	351	2	0	2	7	_	∞	586
	Thimphu	10	52	∞	0	10	2	26	24	က	12	28	38	99	1,775	36	4	4	12	46	9	132	2,324
other	Sarpang Th	2	15	c	0	_	0	c	2	—	_	က	7	389	64	2	0	0	14	∞	_	6	528
lence of M	Samtse S	3	86	0	0	7	—	4	80	2	_	4	348	20	124	4	0	—	3	4	0	m	635
Place of Usual Residence of Mother	Samdrup Jongkhar	4	∞	0	0	_	0	18	9	2	2	232	∞	41	78	26	m	4	_	6	_	m	450
Place	Punakha j	_	2	4	0	2	0	—	10	0	83	2	—	6	122	4	—	0	_	84	0	2	335
		_	6	0	0	_	0	39	_	79	2	23	2	19	49	43	0	0	2	2	0	0	278
	Paro Pema Gatshel	0	12	0	0	0	0	1	121	cc	—	—	10	14	376	9	—	0	0	12	—	18	587 2
		6	œ	—	0	2	2	437	5 1	—	4	2	4	7	73 3	44	—	—	0	2	4	0	613 5
	Lhuentse Monggar	_	2	0	0	0	53	93	2	—	_	—	2	_	42	16	2	2	0	co	_	2	2
	Lhuent						Ω	6							4	_							225
	Haa	_	c	0	0	26	0	0	c	0	2	0	2	2	53	0	0	0	0		0	4	127
	a Gasa	0	0	0	9	0	0	0	2	0	4	0	0	0	18	0	0	0	2	4	0	_	37
	Dagana	c	24	61	_	_	0	2	6	-	0	m	9	20	136	_	—	_	18	19	0	0	307
	Chhukha	5	334	2	0	4	0	1	15		4	7	36	32	297	∞	2	—	4	12	_	12	791
	Bumthang	127	_	2	0	0	_	2	2	0	2	7	0	10	26	2	0	-	2	7	0	m	229
Place of	Occurrence	Bumthang	Chhukha	Dagana	Gasa	Наа	Lhuentse	Monggar	Paro	Pema Gatshel	Punakha	Samdrup Jongkhar	Samtse	Sarpang	Thimphu	Trashigang	Trashi Yangtse	Trongsa	Tsirang	Wangdue Phodrang	Zhemgang	Outside Bhutan	Bhutan

 Table B3
 Births by Place of Usual Residence, Age and Mothers Level of Education, Bhutan 2022

				Mother's L	evel of Educat	tion				
Place of Usual Residence and Age of Mother	None	Primary	Secondary	Higher Secondary	Bachelors' Degree	Masters' Degree and Above	NFE	Others	Don't Know	Total
Age Group										
<19	17	25	61	39	0	0	0	0	0	142
20-24	140	206	582	813	27	0	10	8	84	1,870
25-29	422	251	554	1142	403	6	48	12	334	3,172
30-34	724	269	341	799	487	32	84	22	112	2,870
35-39	550	88	99	295	121	20	54	12	33	1,272
40-44	208	33	23	46	8	3	8	3	1	333
45+	44	3	1	0	0	1	1	1	1	52
Total	2,105	875	1,661	3,134	1046	62	205	58	565	9,711
Place of Occurrence									'	
Bumthang	40	52	21	91	14	1	5	2	3	229
Chhukha	179	64	165	222	86	2	11	1	61	791
Dagana	79	24	97	66	16	1	2	2	20	307
Gasa	12	6	4	8	4	0	2	0	1	37
Наа	30	16	26	32	16	0	2	1	4	127
Lhuentse	51	35	56	53	7	0	16	0	7	225
Monggar	218	73	62	158	36	1	18	2	45	613
Paro	82	54	93	233	79	4	6	6	30	587
Pema Gatshel	55	25	48	112	10	0	19	0	9	278
Punakha	54	36	71	107	31	5	0	4	27	335
Samdrup Jongkhar	117	28	70	159	34	1	11	2	28	450
Samtse	200	84	101	171	42	1	13	3	20	635
Sarpang	133	47	101	172	39	0	13	1	22	528
Thimphu	274	125	309	913	499	32	21	25	126	2,324
Trashigang	176	53	127	131	35	7	25	2	30	586
Trashi Yangtse	66	19	27	89	12	0	15	0	26	254
Trongsa	39	15	59	43	13	1	8	1	10	189
Tsirang	72	11	40	80	15	1	4	1	13	237
Wangdue Phodrang	138	75	120	160	24	0	6	3	32	558
Zhemgang	69	16	37	100	18	0	6	1	6	253
Outside Bhutan	20	15	22	29	11	2	2	1	39	141
Not Stated	1	2	5	5	5	3	0	0	6	27
Bhutan	2105	875	1661	3134	1046	62	205	58	565	9711

 Table B4
 Births by Place of Occurrence and Site of Occurrence, Bhutan 2022

Place of Occurrence	Health Facility	Home	Others	Total
Bumthang	200	3	0	203
Chhukha	621	11	0	632
Dagana	83	4	2	89
Gasa	4	3	0	7
Наа	88	0	0	88
Lhuentse	61	2	0	63
Monggar	780	8	1	789
Paro	246	3	0	249
Pema Gatshel	106	3	1	110
Punakha	138	1	0	139
Samdrup Jongkhar	340	4	0	344
Samtse	478	10	1	489
Sarpang	788	8	0	796
Thimphu	3,905	8	1	3,914
Trashigang	617	18	0	635
Trashi Yangtse	104	3	0	107
Trongsa	60	3	0	63
Tsirang	141	3	0	144
Wangdue Phodrang	532	4	1	537
Zhemgang	79	6	0	85
Outside Bhutan	227	0	1	228
Bhutan	9,598	105	8	9,711

 Table B5
 Births by Place of Usual Residence of Mother and Birth Weight, Bhutan 2022

Place of Usual Residence		Numbers	;		
of Mother	Birthweight <2500gm	Birthweight 2500gm- 4000gm	Birthweight >4000gm	Not Stated	Total
Bumthang	14	201	13	1	229
Chhukha	57	702	32	0	791
Dagana	29	271	5	2	307
Gasa	8	29	0	0	37
Наа	8	113	5	1	127
Lhuentse	13	205	7	0	225
Monggar	66	531	13	3	613
Paro	44	508	31	4	587
Pema Gatshel	23	242	13	0	278
Punakha	21	290	23	1	335
Samdrup Jongkhar	42	384	24	0	450
Samtse	43	572	19	1	635
Sarpang	52	450	22	4	528
Thimphu	186	2,031	98	9	2,324
Trashigang	43	529	13	1	586
Trashi Yangtse	20	221	11	2	254
Trongsa	11	170	7	1	189
Tsirang	12	218	7	0	237
Wangdue Phodrang	38	489	31	0	558
Zhemgang	17	225	11	0	253
Outside Bhutan	0	25	1	1	27
Not Stated	10	122	6	3	141
Bhutan	757	8,528	392	34	9,711

Table B6 Births by Birth Weight and Place of Usual Residence and Mothers Level of Education, Bhutan 2022

Mothers Level of Education	Birthweight <2500gm	Birthweight 2500gm-4000gm	Birthweight >4000gm	Not Stated	Total
None	195	1,826	79	5	2105
Primary	68	763	41	3	875
Secondary	134	1,466	60	1	1661
Higher secondary	242	2,760	119	13	3134
Bachelor degree	61	925	56	4	1046
Master degree and above	2	57	3	0	62
NFE	12	183	8	2	205
Others	5	51	2	0	58
Don't know	38	497	24	6	565
Total	757	8,528	392	34	9711

Table B7 Birth Order by Birth Interval, Bhutan 2022

Birth Interval	Birth order 1	er 1	<12 months	ths	12-17 months	nths	18-23 months	nths	24-29 months	nths	30-35 months	nths	3 years		4 years		5-9 years		10 years or more	r more	Total	_
Birth Order	Numbers Percent Numbers Percent Numbers Percent	Percent	Numbers	Percent	Numbers F	Percent	Numbers Percer	=	Numbers	Percent 1	Numbers Percent		Numbers P	Percent N	Numbers P	Percent N	Numbers Percent		Numbers	Percent	Numbers	Percent
_	3,657	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,657	100.0
2	0	0.0	24	0.8	63	2.0	139	4.4	183	5.8	224	7.0	499	15.7	527	16.6	1,078	33.9	448	14.1	3,185	100.0
က	0	0.0	26	1.4	21	1.2	89	4.9	80	4.4	102	5.6	237	13.0	205	11.3	299	36.6	396	21.7	1,823	100.0
4	0	0.0	13	1.8	11	1.5	28	3.9	46	6.4	41	5.7	82	11.4	95	13.2	235	32.7	167	23.3	718	100.0
2	0	0.0	4	1.8	6	4.0	13	5.7	16	7.1	00	3.5	31	13.7	26	11.5	29	29.5	53	23.4	227	100.0
9	0	0.0	—	1.4	4	5.5	2	6.9	2	6.9	3	4.1	10	13.7	1	15.1	17	23.3	17	23.3	73	100.0
7	0	0.0	n	18.8	_	6.3	—	6.3	—	6.3	_	6.3	_	6.3	_	6.3	4	25.0	3	18.8	16	100.0
80	0	0.0	0	0.0	0	0.0	0	0.0	3	30.0	0	0.0	<u></u>	10.0	0	0.0	2	50.0	<u></u>	10.0	10	100.0
6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	_	100.0	_	100.0
10	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	—	100.0	0	0.0	0	0.0	0	0.0	_	
Total	3657	37.7	71	0.7	109	1.1	275	2.8	334	3.4	379	3.9	862	8.9	865	8.9	2073	21.4	1086	11.2	9711	100.0

 Table B8
 Birth Interval by Birth Weight, Bhutan 2022

Birth Weight	<2500gr	F	2500gm-4000gm	00gm	>4000gm	E	Not stated	p _c	Total	
Birth Interval	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers	Percent	Numbers	Percent
Birth order 1	342	9.4	3189	87.2	112	3.1	14	0.4	3657	100.0
<12 months	41	57.8	25	35.2	~	1.4	4	2.6	71	100.0
12-17 months	6	8.3	96	88.1	4	3.7	0	0.0	109	100.0
18-23 months	10	3.6	249	9.06	16	5.8	0	0.0	275	100.0
24-29 months	18	5.4	297	88.9	17	2.1	2	9.0	334	100.0
30-35 months	14	3.7	349	92.1	16	4.2	0	0.0	379	100.0
3 years	43	2.0	797	89.0	48	5.6	4	0.5	862	100.0
4 years	36	4.2	787	91.0	41	4.7	_	0.1	865	100.0
5-9 years	142	6.9	1,837	9.88	88	4.3	2	0.2	2,073	100.0
>10 years	102	9.4	932	82.8	48	4.4	4	0.4	1086	100.0
Total	757	7.8	8,528	87.8	392	4.0	34	0.4	9,711	100.0

 Table D1
 Deaths by Place and Duration of Registration, Bhutan 2022

Diago of Domintuntion		Time of Registration		Total
Place of Registration	Within One Month	1-12 months	More than 1 year	Total
Bumthang	41	35	0	76
Chhukha	69	107	7	183
Dagana	98	82	10	190
Gasa	5	15	2	22
Haa	34	29	1	64
Lhuentse	56	72	1	129
Monggar	118	154	3	275
Paro	91	59	1	151
Pema Gatshel	129	93	1	223
Punakha	115	59	2	176
Samdrup Jongkhar	131	85	0	216
Samtse	241	163	5	409
Sarpang	111	117	3	231
Thimphu	56	49	3	108
Trashigang	212	188	5	405
Trashi Yangtse	81	59	2	142
Trongsa	47	44	0	91
Tsirang	88	83	1	172
Wangdue Phodrang	100	93	3	196
Zhemgang	66	80	0	146
Bhutan	1,889	1,666	50	3,605

 Table D2
 Deaths by Month of Occurrence and Month of Registration, Bhutan 2022

Month	Occurrence	Registration	Occurrence (%)	Registration (%)
January	344	262	9.5	7.3
Februray	310	193	8.6	5.4
March	318	330	8.8	9.2
April	333	370	9.2	10.3
May	296	347	8.2	9.6
June	254	305	7.1	8.5
July	270	284	7.5	7.9
August	280	322	7.8	8.9
September	251	245	7.0	6.8
October	304	266	8.4	7.4
November	341	339	9.5	9.4
December	304	342	8.4	9.5
Total	3,605	3,605	100.0	100.0

Table D3 Deaths by Place of Occurrence and Sex of Decedent, Bhutan 2022

Di(0	Sex of D	ecedent	Total	
Place of Occurrence	Male	Female	Total	
Bumthang	36	42	78	
Chhukha	103	75	178	
Dagana	59	63	122	
Gasa	12	6	18	
Наа	20	34	54	
Lhuentse	32	38	70	
Monggar	132	129	261	
Paro	82	81	163	
Pema Gatshel	83	62	145	
Punakha	62	58	120	
Samdrup Jongkhar	85	94	179	
Samtse	168	117	285	
Sarpang	132	100	232	
Thimphu	407	359	766	
Trashigang	163	132	295	
Trashi Yangtse	55	39	94	
Trongsa	37	32	69	
Tsirang	58	43	101	
Wangdue Phodrang	106	78	184	
Zhemgang	59	54	113	
Outside Bhutan	33	24	57	
Bhutan	1,924	1,660	3,584	

Table D4 Deaths by Place of Registration and Sex of Decedent, Bhutan 2022

Place of Base Street	Sex of D	ecedent	Total	
Place of Regsitration	Male	Female	Total	
Bumthang	37	39	76	
Chhukha	97	86	183	
Dagana	102	88	190	
Gasa	13	9	22	
Наа	27	37	64	
Lhuentse	63	66	129	
Monggar	135	140	275	
Paro	83	68	151	
Pema Gatshel	119	104	223	
Punakha	93	83	176	
Samdrup Jongkhar	105	111	216	
Samtse	245	164	409	
Sarpang	137	94	231	
Thimphu	62	46	108	
Trashigang	210	195	405	
Trashi Yangtse	76	66	142	
Trongsa	50	41	91	
Tsirang	102	70	172	
Wangdue Phodrang	106	90	196	
Zhemgang	76	70	146	
Bhutan	1,938	1,667	3,605	

 Table D5
 Deaths by Age Group and Sex, Bhutan 2022

Ago Group	Se	ex	Total
Age Group	Male	Female	Total
<1	12	10	22
1-4	17	15	32
5-9	12	8	20
10-14	13	14	27
15-19	24	18	42
20-24	42	21	63
25-29	61	29	90
30-34	72	37	109
35-39	104	63	167
40-44	104	66	170
45-49	97	79	176
50-54	107	76	183
55-59	112	102	214
60-64	119	125	244
65-69	152	117	269
70-74	169	140	309
75-79	208	186	394
80-84	213	199	412
85+	300	362	662
Total	1,938	1,667	3,605

 Table D6
 Age Specific Death Rates, Bhutan 2022

Age at death	Number	of deaths	Total	Age group	Popul	ation	Total	Age group	ASI	DR	Total
(years)	Male	Female	Total	Age group (years)	Male	Female	Total	Age group (years)	Male	Female	IOlai
0	12	10	22	0	6,101	5,908	12,009	<1	1.97	1.69	1.83
1-4	17	15	32	1-4	24,270	23,570	47,840	1-4	0.70	0.64	0.67
5-9	12	8	20	5-9	28,817	27,982	56,799	5-9	0.42	0.29	0.35
10-14	13	14	27	10-14	31,877	30,788	62,665	10-14	0.41	0.45	0.43
15-19	24	18	42	15-19	34,491	34,163	68,654	15-19	0.70	0.53	0.61
20-24	42	21	63	20-24	34,390	33,402	67,792	20-24	1.22	0.63	0.93
25-29	61	29	90	25-29	40,643	34,079	74,722	25-29	1.50	0.85	1.20
30-34	72	37	109	30-34	42,249	36,160	78,409	30-34	1.70	1.02	1.39
35-39	104	63	167	35-39	34,360	29,724	64,084	35-39	3.03	2.12	2.61
40-44	104	66	170	40-44	28,935	25,383	54,318	40-44	3.59	2.60	3.13
45-49	97	79	176	45-49	21,630	18,793	40,423	45-49	4.48	4.20	4.35
50-54	107	76	183	50-54	18,159	16,167	34,326	50-54	5.89	4.70	5.33
55-59	112	102	214	55-59	14,746	13,236	27,982	55-59	7.60	7.71	7.65
60-64	119	125	244	60-64	11,626	10,885	22,511	60-64	10.24	11.48	10.84
65-69	152	117	269	65-69	9,611	9,478	19,089	65-69	15.82	12.34	14.09
70-74	169	140	309	70-74	6,580	6,206	12,786	70-74	25.68	22.56	24.17
75-79	208	186	394	75-79	4,662	4,595	9,257	75-79	44.62	40.48	42.56
80+	513	561	1074	80+	4,584	4,999	9,583	80+	111.91	112.22	112.07

ANNEXURE II: MEMORANDUM OF UNDERSTANDING



MEMORANDUM OF UNDERSTANDING BETWEEN THE NATIONAL STATISTICS BUREAU AND





I. PURPOSE AND SCOPE

The National Statistics Bureau, hereinafter referred to as "the recipient", in its effort towards supporting evidence-based decision making intends to publish annual Vital Statistics Report (VSR) based on the vital events data compiled by the Department of Civil Registration and Census, under Ministry of Home and cultural Affairs, hereinafter referred to as "the provider", in accordance with the provisions of this agreement, the provider shall share data from the Bhutan Civil Registration System, hereinafter referred to as BCRS, to the recipient. The data will be published only at the aggregated level for vital statistics analysis.

II. OBJECTIVES

The objective of this MoU is to ensure that there is continuous and timely flow of BCRS data from the provider to the recipient to enable the publication of annual VSR.

III. RESPONSIBILITIES OF THE RECIPIENT

- The recipient promises to comply with all provisions of this agreement to ensure the annual publication of VSR;
- The recipient agrees that the BCRS data provided under this agreement shall be strictly restricted to officials assigned with the analysis and publication of the VSR;
- Authorized officials shall sign a non-disclosure form with the Chief of Social Statistics Division to ensure the confidentiality of the data;
- D. Authorized officials designated pursuant to this agreement shall not use the BCRS data for any other purpose other than the publication of VSR;
- E. The VSR intended for release or publication must not include or reveal the characteristics of an individual respondent and ensure that the information will be published only at the aggregated level;
- The recipient shall share a copy of all the signed non-disclosure form with the focal person of the provider annually; and
- The recipient may provide recommendation to the provider for the improvement of BCRS data collection.

IV. RESPONSIBILITIES OF THE PROVIDER

- A. The provider promises to comply with all provisions of this agreement to ensure the annual publication of the VSR;
- B. The provider agrees to share the micro data of the BCRS;
- C. The provider shall share the BCRS data by 15th January of every year;









- D. The provider shall identify a focal for the same; and
- E. The provider may act on the recommendations made by the recipient on improving the data collection for the BCRS.

V. DURATION OF THIS AGREEMENT

All agreed clauses herein are effective from the date of signing of this MoU. This MoU shall be amended on mutual agreement between the recipient and the provider at any time.

VI. TERMINATION OF MOU

This MoU may be terminated on mutual agreement between the recipient and the provider at any time.

VII. EFFECTIVE DATE AND SIGNATURE IN WITNESS WHEREOF,

The recipient and the provider hereby have executed this MoU on the 09th October 2020 corresponding to 22nd day 08th month of lunar calender. On behalf of the National Statistics Bureau and on behalf of the Department of Civil Registration and Census, Ministry of Home and Cultural Affairs.

(Signature)

Mr. Chillime Tshering

DIRECTOR

National Statistics Bureau

(Signature)

Mr. Tashi Tobgye

DIRECTOR GENERAL

Department of Civil Registration and Census

WITNESSED BY:

(Signature) Mr. Tashi Dorjee

Chief Statistical Officer

National Statistics Bureau

Mr. Thirtey Wang hul

Chief Civil Registration and Census Officer Department of Civil Registration and Census

ANNEXURE III: REGISTRATION PROCESS FOR BIRTHS AND DEATHS

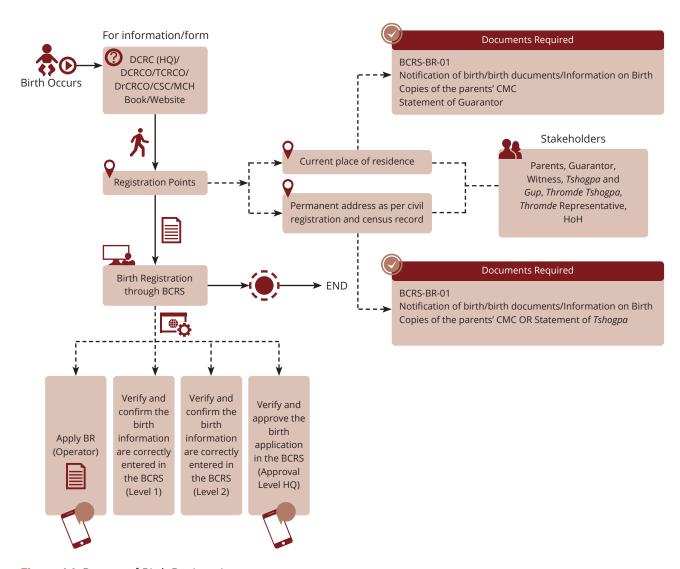


Figure A1 Process of Birth Registration

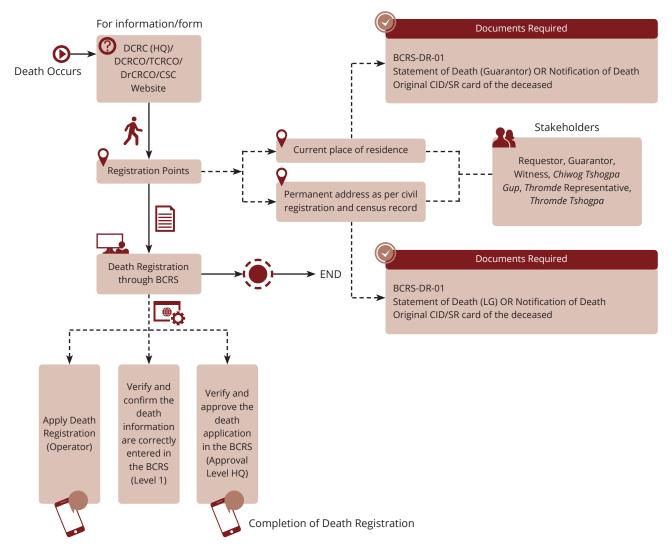


Figure A2 Process of Death Registration

ANNEXURE IV: FORMS RELATED TO BIRTH AND DEATH REGISTRATION

Form 1 Birth Registration Form

	() e (e)				D CULTURAL AFFAIR GISTRATION AND CENSUS	
The Page	Sen a ser	σų.	विवायम्भूषिकं क्यों दिन्दीर्मेषाः BIRT	H REGISTR.	ATION FORM	
2.		ক্ষর্ভন্দ/Particulars of Newl				
		f birth(^{養料} /DD/圖/MM/ ^科 /YYY				
		O ¾/Male O ¾/Female	हे क्षेत्रच्ये दुवाईन्/Tim		- শ্রীন্ট্রনি Weight:	
					गस्थ /Village	
	भुैकवदेशचादक/PI	ace of Delivery: 🔘 গুৰ্মন্ত্ৰীন/I	Hospital 🔘 খুর্নেন্ট্রন্থ/BHU	O ਭੈਕਾਰ੍ਸ /Home	O শূর্ব / Others	
	बरुदेग्मञ्ज5/Moth	ner Tongue:	र्हेलशुज्ञल/Religion:		व्यक्त्रावा/Astrological Sign:	
100	र् ^{ङ्गेदेश्यञ्चर} /Prese	nt Address:				
a.	क्षे खिटश्रह हैंदि वात्रा के		TOWE /CID/SR/Permit No.:			
		ality:				
	• • • • • • • • • • • • • • • • • • • •					•••••
3.		etails of Mother:				
	500		/CID/SR/Permit No.:			
		lity:				
۳.	जर्वेदिशे हैल र्वे क्रिक्	प्रमान्य विवयम्बन्धः /With whom tl	he newborn is to be register	ed		
	श्रेष्ट्रश्रद्भेंद्रायम्	क्रिर-\र्यश्च वाना स्थला वाष्ट्र कर्त्य क्रूच क्रूच क्रम (वाना वान	गुर्थार्केण खरू थरः/CID/SR/Permit No.:			
	ರ್ಷ/Name.:					
	अया विकर श्रेक रहा है।	^{śর} /Relation to newborn:				
	···· }<		egistration Form Ackno		Pacaint	(···
Rece			form along with supporting do		with the above pe	-

ų	इन्द्रेन्येन्डं/Supporting Docu									
	0	क्रुेशनदे गया नसुगय/क्रुेशनदेखेगक	/Notification	of Birth/Birth Documents						
	0	ध्वरद्ये गानुव स्थर/Court Marriage Certificate of parents								
	0	कुनक्षेणेरणनर्हेर् /Statement	of Guarantor	O र्डेगम्भगिरुगर्थेर् /Statement of Tshogpa						
6.	म्ब्हेंग्यम्ब्र्येश्/Undertaking									
٥,		ाधकीता यापासीन अन्यनेत मात्री यात्रन व्यवस्था	रेवर्डेड महिल कथाका	गोप्रिक्षम् प्रमाणसम्बद्धाः क्षेत्राचिक्षणः समाविक्षः स्वतिक्षित्रः /T. b. over by de alone that all the						
	ন্দীখনিন্ধ-শন্ত্ৰিশন্ত্ৰপৰ্ত্ত্ৰ-ক্ৰিন্ত্ৰ্ৰাৰী শৃশন্ত্ৰ-ক্ৰিন্ত-ক্ৰিন-ক্ৰিন্ত-ক্ৰিন-ক্ৰিন্ত-ক্ৰিন-ক্ৰিন্ত-ক্ৰিন-ক্ৰিন্ত-ক্ৰিন-ক্ৰিন-ক্ৰিন্ত-ক্ৰিন-ক্ৰ									
	द्येक्षका हु यह व			ब् <i>र से गर्डें</i> इब <u>छ</u> े केर हुग्य।						
	Legal stamp	चते क <u>्</u> रीम हुण्या	अदी मी की माह पहण	(अर्था वर्दे स्था महिना र महिना कर साम का वर्ष र माना करते हैं है का वर्ष है के का वर्ष है महिना करते हैं के क (अर्था वर्ष स्था महिना करते के साम करते हैं के साम करते हैं के किए के साम की की किए के किए के किए की की की की						
			Sign. of Mother	Sign. of Head of Household (Mandatory for newborn registering in a household other than the parents)						
	<u> </u>	N/Date:	활 ^{출ベ} /Date:	월 ^{골세} /Date:						
[थ.१ मन्द्रवस्त्रकारीकेहैकर्केक्ट्रिक्ट्रकेट	মঞ্জুমার্রকাদিকেন্দ্রীপ্রবিশ্বস্থা/For reg	istration of	७.२ पृष्टेक् मन्त्रवाथय वार्यायवरक्केवार्वेक्यम् त्रव्यावेक्ष्मेम् (For registration of birth						
2).	birth from permanent address as j	per civil registration and cens	sus record	from the Current Place of Residence						
	श्चेर्यवार्डवम्भभवीष्टेदुन्दर्शन्हवम्भ/Seal & Sign	ı. of Chiwog Tshogpa		कुरक्षेपीव्यवृद्धे/Thumb impression of Guarantor:						
	क्षेत्रकार्ट्स्र्र्न् व्यवास्त्रेतः अनः/CID No.:			क्षे (बुटका र्ह्सून धार्य क्रेट /CID No.:						
	त्रमुकारमें के अपः/Mobile No:									
	월 ^{출시} Date:			त्युवारक्षेत्र शर्पः/Mobile No:						
				ਬੁੰ ^{ਛੋ} ਕਾ/Date:						
	क्य /व्य ब्रेस्ट्य /व्य ब्रेड्यकार विवेदर श्रेरहक	*/Seal & Sign of Gun/Thromo	le.	~~ ^						
	Representative/Thromde Tshogp			र्पर्द्रभीवान् वे/Thumb impression of Witness:						
	क्षेत्रकार्टक्ष्र्रकाषाचेरः अरः/CID No.:			શૈલુદતાર્દેર્શ્વેદ્વાનો કુંદ્ર અદ/CID No.:						
	त्युवादधेव अर /Mobile No:			वञ्चभावदेतुष्ठपर/Mobile No:						
ŀ	ਹੈ ਛੇਂਘ /Date:			ਹੁੰ ^{ਛੇਗ} /Date:						
4			Person to be	notified after completion of registration in the Bhutan Civil Registration						
	System (BCRS).									
	होदः'/Name:		र्श्चिण	रहेत्रणः/email ID:						
	वमुत्यःवर्धेकण्यः/Mobile No:									
ļ										
¢.	महरूर् विष्णमाभेव\For Official Use	:								
	बु ^{क्केषण्∾≍} /Application No.:		š.	જ્ઞેલનઅર્ફેનાલ્લેન /લેનવેર્સેનર્ગેન્દ્રન્દ સેફ્રેઅપ્પેન હૅન્દ્રવના /લ્લેક્સ્ટ્રે/વ્યયલુન્અલ્લેન)નેશેલ્ક્ટ્રન્ફનાઅ Seal & Sign. of CSC/DCRCO/TCRCO/DCRC HQ						
				ਬੁੰਛੇਂਕ/Date:						
_										

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For Citizens and Special Resident card holders: Visit nearest Civil Registration and Census Office within 30 days/One Year of birth occurrence to ensure timely birth registration and to avoid their census drop-out case.

For MC After 1985 (Children of Marriage Cases between Bhutanese and non-Bhutanese after 1985): Visit Department of Immigration Head Office, Thimphu within One Year of birth occurrence.

तम्भिण्याः वैश्वेन्द्र भेष-वैन्द्र-विश्वहे-09/ Form No.BCRS-BR-SG-01

मृज्यास्य १ मने १/ Page 1 of 1

अश्यासर क्रेस्टी क्रिय केरोरम	∜ Statement of Gua	rantor for Birth Registration				
त्रुविषयक्ष्य√Details of Guarantor						
क्षे∽\/Name:						
भैक्ष्म्यः र्ह्सून्यम्ब्रिमः व्यमः VCID No.:						
क्रेर्स्स्स्/Age:						
त्रमुक्पत्रधेत्। Mobile No.:						
र्भेदेख महार Present Address:	শুখ্ৰ/Village:					
		Thromde:				
	ह्रेंद्रप्यम् /Dzongkhag:_					
N U F 35						
1.ਊ੮ ਬ੮ 	त्रद् ष अर					
गुर्थ.सैकास.कुथी						
		मनः ह्योनामनपङ्गेवायन् भावते मार्ग्यन्यन्त्रेत्राचनेवायः मार्थन्यः				
मुष्यत् दुवं मैंगावयम् वृत्वेषया तीवियत्तर तिविया है। वेशवृ	वेयम् क्षण् क्षेत्र लु वे च्येवा					
daughter/son of Mr and Mrs	bearing C provided on the parentage of	is the bearing CID No				
Legai Stamp	guarantor and witness must give the ession only when they visit registration					
हुन भैदेव्यम्बी/Thumb impression of Guar	rantor	र्पन्देविष्याची/Thumb impression of Witness				
ों डेंब्ग्/Date:		श्रेम्VName:				
"Date		श्रेषुर्व्यम् र्थूर्व्यम् श्रेर्वेर अस् //CID No.:				
		वशुभवश्चेतृष्परः∜Mobile No.:				
		ਬੁੰਛੇ ਾ /Date:				
कुरको वर्दे आर/Guarantor must be:						

- वसुनामवेश्रेत्राहरू भ्रेश्वर्त्त । अश्रेश्वर्त्त । वस्त अश्रेश्वर्त्त । Bhutanese citizen aged 18 to 65 years
- ष्णुवेष्वा श्रीकृत्यका तुम्बाववर्षे र विम्मृत्यक्ष तुम्बाववर्षे विम्मृत्यक्ष क्षेत्रकेण/someone who has known the parents of the newborn for not less than 1 year;
- प्रवतः इंप्यू के केंद्रपति केंद्रिक केंद्रपति केंद्रिक केंद्रपति केंद्रपति
- बैचविक्षियों, प्रस्थे हें अर्थे के विकास के किया है के किया के किया है जो किया है जो किया है किया ह

বট্ট্রাস্থ্যকর বিশ্বীক্ষর ক্রিয়ার 🚉 🗝 / Form No. BCRS-DR-01



क्र-क्रीन्ट्र-क्रिश्वाप्या/ MINISTRY OF HOME AND CULTURAL AFFAIRS क्रेयोर्च्यान्त्र-व्यक्षित्रकार्यात्व-व्यक्षित्रकार्यात्व-व्यक्षित्व-वित्तव-विततव-वित्तव-

केंवर्म क्ष्म सुविधिम्प DEATH REPORTING FORM केवन्यक्रीमान्नवर्ष्ण्/Particulars of Deceased: व्याद्मार्थ्र्यं वावाव्यः नृत्येववयाव्यान्त्रवर्ष्य्र्ववावयात्रवर्ष्यः विवायव्यान्त्रवर्ष्यः विवायव्यान्त्रवर्षः विवायव्यान्यान्त्रवर्षः विवायव्यान्त्रवर्षः विवायव्यान्त्रवर्षः विवायव्यान्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्यान्त्रवर्यान्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्त्रवर्यान्यान्त्रवर्य র্ফর্কার্ক্রম/Sex: ০ র্ফা/Male ০ র্ফা/Female ਬੁੰਕਾਨੌਕਾ/Date of birth (ਨੌਕਾ/DD/ਡੋ/MM/ਕਾ/YYYY): मैच्येक्ष्मर्ख्य/Particulars of Death: मैचवेर्ड^{आर्टे}र्न/Time of Death: ____ भै विक्कुकुषि/Cause of Death: मैन्दे ब्लॉडेंब/Date of Death: नैपरिश्वमान्य/Place of Death: क्याव्य/Country: केंद्रिया/विस्थि/Gewog/Thromde: क्षुक /Village: O अनुष्य अनुष्य O अनुष्य O विकास O प्रमुख्य O प्रमुख्य / Others हेक्पुणच्युक्तिकामी विदेशकाषु/Person who las attended the deceased: केरबुर-श्रम् विकार द्रश्चेष्यच्यान्यः नाहस्य वृद्ध्ः केषाव्रस्य,द्रावाक्ष्याक्ष्याक्ष्याक्ष्याक्ष्यः (CID)/SR/Permit No.: अभवीववाक्ष्य/Details of Father: के सुरू अर्दे क्वें प्राचानिक /र्केन्यान्यकाः नामक क्वेंट्र केन्यामा/यस्म स्थापकेन्यान्यसम्भारः /CID/SR/Permit No.: भेतुद्ध /Nationality: ___ क्रदेवीमयक्ष्य/Details of Mother: u, के तुरुलर्र र्श्वेर पानुदेर /र्रकेनकारकार नुस्कर्मर र्हेन् हनावन/गान तुनुकर्म का अप /CID/SR/Permit No.: _ केष्ट्रण/Nationality:, ुर्विभीवयुष्धः/Details of Requestor: के क्टूबर्ट ब्रुट्ट व्यापकेर /दक्षेणाव काव्य महत्र ब्रुट्ट केंच कव /व्यवसूच्य केंग क्वा कार्य /CID/SR/Permit No.: ___ केवरअनुष्ट्रेकी/Relation to deceased: ___ कुन हेन् विवास /Supporting Documents: 🔘 केवद्यक्रेकेस्ट्रिक्ट्यून व्यम्क्रिक्ट्रिक्ट्यून व्यम्क्रिक्ट्यून व्यम्बर्क्य महास्यात्रीय विश्वास्य विष्य व 🔘 নিন্দ্রশাধন্যসমুগাদ /Notification of death त्रीयां क्रियां क्रिया के नाम क्षेत्र क्ष declare that all the information provided herein above is true and correct. If proved to be fulse, I shall be liable for punishment as per the Law of the Land. ज़िस्रका स्वाका। Legal stamp बुअंगे अन्हण्या/Sign. of Requestor বন্ধুখনগ্ৰহীৰ w= /Mobile No: — धुँकेष्∥/Date:_

4	4) नहत्वस्वाचीसे हैच कें लिंद्द्रप्रियों कें व्यवस्था केंद्रप्रकार केंद्र केंद्रप्रकार केंद्रप्रकार (Only for death reporting from permanent address as per civil registration and census record	५२ ५ मुन्देश्चित्रवायण केंद्यपञ्चन विद्यास्त्र विद्यास्त वि
	ষ্ট্রাম্বল্ডবদ্ধধনীন্তবৃদ্ধনিক্রন্থ /Seal & Sign. of Chiwog Tshogpa ন্তাক্রন্থ মূর্ব্যান্ত্রন্থ সং/CID No.: বেশ্ব্যাবন্ধীক্র্যান্ত্র্প সং/Mobile No: ষ্ট্রিউম/Date:	विश्व stamp Legal stamp क्रिक्ट में चीचवर्षि /Thumb impression of Guarantor: शेख्द कर्ष हैं देवाबुंदेर अपर /CID No.:
	ब्रॉच /फॅंक ब्रेट देन /फॅंक ब्रेड नाम धर्मी बेदा दृष्ट श्रेट हुनाम /Seal & Sign. of Gup/Thromde Representative/Thromde Tshogpa શ્રેશ્વરભાષ્ટ્રિક અપ્य /CID No.:	इंप्टरोषी वापीवे/Thumb impression of Witness: के व्हरणटें कुर्प्याचेट ब्लट/CID No.: व्याचायोद ब्लट/Mobile No: चुंच्य/Date: The guarantor and witness must give their thumb impression only when they visit registration point.
çª.	System (BCRS). क्षेट्र/Name: वज्युव्यविषु ष्पट्र/Mobile No:	o be notified after completion of registration in the Bhutan Civil Registration व्यं नविदेश ^{माञ्चर} /email ID:
20.	गहर्-र्नेवण्यापेF or Official Use ब् ^{Æषाष्प्र} /Application No.:	કો શ્રેલઅર્જિન લ્રેન્ગ લેન્ન્ગે ર્વે ચર્નેલ્ ન્દર કો ફેઅપ્પેન હૅન્દ લગ /લ્કાર્યું /પગ લ્રુન્ચ લ્રેન્ગ) મેરોલુન્દ ફનખ Seal & Sig. of CSC/DCRCO/TCRCO/DCRC HQ શ્રે હેંચ/Date:

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वहें र्स्वाप्यरः वेशेष्यर क्षेत्र _हेण्यरं_क्षेत्र है-०१/Form No. BCRS-DR-SD-01

ৰ্কাশ্ৰহ্ম 🤈 মন্ত্ৰী গ/ Page 1 of 1



र्पयाञ्चन्रपञ्चन्यञ्चन् ROYAL GOVERNMENT OF BHUTAN न्रञ्चेर् र्र्ञ्च्यप्र≅न् झुनावन्। MINISTRY OF HOME AND CULTURAL AFFAIRS क्षेत्रविक्षंचर्गोन् र्र्रकेडेकच्यवस्यानुस्य। DEPARTMENT OF CIVIL REGISTRATION AND CENSUS

व्युवाक्तवायवदः वर्षेभवेष्यसुद्धनुत्रेद्वेदः मैज्जेद्वयुद्धरपवेरवायहेद।

STATEMENT	OF DEATH THAT	OCCUR OUTSIDE HEA	ALTH FACILITY IN BHUTA	N
1. * ですらいでは、	E (^ૠ '/DD/aੈਂ/ YY)	3. बॅबॅवेन्डेन/GENDER	4.वैच्येटेंअश्रूर्अ\DATE OF DEATH	5.भैडवेर्डबर्डिंग/TIME OF DEATH
 श्रीसुद्यार्ट्श्वॅद्वायम्ब्रीमः/द्रश्रीमाश्ययश्यमाम्बर्ग्य्वॅद्विमञ्जलं/ग्यस्य 	स्मुथर्केण श्रम् /CID/SR/P:	ERMIT NO		
7. भैन्यवेश्वयात्रव्य/Place of Death: ब्हेंन्यपा/Dzongkhag.		के दिंग/र्केश थे/Gewog/Thro	omde: पशुन्त/V	'illag e:
8. व्यम्प्रवेशेम्:/FATHER'S NAME		9. अवैषेक्षेर/MOTHER'S N	AME	
10. मै चरे बुक्केंब बिलय देव VPROBABLE CAUSE C	F DEATH			
11. केंवन्यवर्दे अभेनवेड़ेअ वर्क प्यत्व ग्रवस्थल्यर्हवेङ्गे DEATH	र.जन्न. अर्देर.चक्रैन.टुब्बस्यूस्/N	OTE DOWN BRIEFLY TH	E DECEASED'S ILLNESS OR (CIRCUMSTANCES PRECEDING
12(a). শূর্বাক্রাক্রীর ক্রমর্কর্নান্ন্ন্র ক্রেন্সের্কর্নান্ন্ন্র ক্রমের্কর্নান্ন্ন্র ক্রমের্কর্নান্ন্র ক্রমের্কর্নান্ন ক্রমের্কর্নান্ন করে প্রকর্নান্ন করে	address as per civil OGPA/THROMDE	Current Place of Residenc	e:on of GUARANTOR	ly for death reporting from the ্রীরম্যসূত্রশ Legal Stamp
12(b). वर्षि गेशेन् /NAME OF GUP: शे.सु. वर्षे क्षुत्र व्याप्त होने /CID No.:		13(b). भैन्\/Name: भेल्द्र-भर्नेर्सून्यवाक्केरे\/CID No.:_ बक्कुयवर्धेनणन\/Mobile No.:		
बेद, क्षेप: हणव्य/SEAL/SIGNATURE क्षेट्रें क्ष्या/Date:		५५८ देखेषामञ्जी/Thumb impress क्षे ^{क्रेच} /Date:	ion of WITNESS	

Form 5 Information of Birth that Occur Outside Health Facility in Bhutan



र्पण भूत तज्ञुन नाबुर। ROYAL GOVERNMENT OF BHUTAN वर्ष्ट्रेर्न्द्र्सेप यहें त्रभूत त्वना

MINISTRY OF HOME AND CULTURAL AFFAIRS લે વર્લ કે વર્ગેન્ડ્રન્સ ફેરુપ્સ અલ્ફરમા

DEPARTMENT OF CIVIL REGISTRATION AND CENSUS

तनुना कुषात्रवाद्भरः नार्वे प्रवेशक्षह्य कुत्रे को र्ष्यरसुः छा सुःक्षेत्रे या वाष्या। INFORMATION ON BIRTH THAT OCCUR OUTSIDE HEALTH FACILITY IN BHUTAN

नेदर्भन्य /बिंग श्रे /GEWOG/THR	ROMDE:			//DZONGKHAG:			
1. अप्रीकेष्/NAME OF THE	2. ই ই ই বি বৃত্তী ব'/GEND	ER	3. 景が送ぬ'/Date of Birth (送ぬ'/DD/夏/MM/ ^ゼ /YYYY)				
4. ब्यन्थ्येन्दे(ब्यन्थेकेंद्र)/BABY OF (MOTHER' NAME) 5. ब्यनेकें			अदिनो श्रेन्द्र-अर्ट्शूद्र्यना होस/द्रश्चन्यन्यत्यन्यद्वयर्थ्ट्र्स्ट्रन्यवय/वयःवज्ञुत्यर्ङ्कन्वयः/वयःविजयः/ MOTHER'S CID/ SRP/ PERMIT/PASSPORT No.				
6. TECNE/HOUSE NO.	7. 팀회'에드/THRAM NO).	8. শুর্ম'/V	ILLAGE	9. बैर्न्स्न /र्देश थें /GEWOG/THROM- DE		
10. ईम्पानग्रिक्षे के क्षेत्रभक्ति माजुर	্রশূর্ব/dzongkhag/add	RESS IN CASE OF FOR	EIGNERS				
11. आयात्रेक्षेप/FATHER'S NAM	ME:						
12. জামারীজীন্তের মার্মীর্থনা স্ট্রমা	/५अवायाचयायावादयाः कृष्ट्रकेवा वर	र.\जश्यवीय.क्ट्र्य.घश.\जश	ঞ্চনাজ্যহ _{/FAT}	THER'S CID/SRP/PERMIT/PAS:	SPORT No.:		
13. TEWE/HOUSE NO.	14. 역하'에드/THRAM N	О.	15. শৃধ্যুৰু /\	VILLAGE	16. বীন্র্রেল /হিজ স্থ্ /GEWOG/THROM- DE		
17. र्हेरायम् /श्रुःश्रेःकोत्र्यःहेत्यः स्ट्र	্বর্শীর্ব/dzongkhag/add	RESS IN CASE OF FOR	EIGNERS				
			, , ,	ন্দ্ৰনাল্ৰী দ্বিঅপান্ধৰাপ স্থান ক্ৰী ক্ৰান্ধৰ I shall be liable for punishment			
18(a). 불리학자 /首환·활국봉구 /首 DE REPRESENTATIVE/THI	સ શ્રે ર્કેન્થર મંગે રેંગ/NAME OF ROMDE TSHOGPA	TSHOGPA/THROM-	19(a). ₹	र्देने केंद्र/NAME OF GUP			
18(b). 현광/원도루미시독도妻(출시·S	SEAL/SIGNATURE & DATE		19(b). 🕏	७३/शेराह्रगुरू प्रसृहिंक /SEAL, SIG	NATURE & DATE		

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