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This Statistical Yearbook of Bhutan (SYB) 2018 publication is the 36th edition. It is a comprehensive and systematic compendium of basic statistical information on the country’s socio-economic conditions.

The SYB is expected to serve as the principal source of information for planners, policy makers, researchers and academicians both within and outside Bhutan. The compilation is based on information gathered through periodic statistical censuses and surveys, as well as from administrative data maintained by various ministries, agencies, corporations and private organizations. This publication is also available through electronic services at www.nsb.gov.bt

Every effort has been made to ensure that this publication meets acceptable statistical standards. Data validation, compilation and updating protocols have been strictly observed with all the data disseminating/providing agencies. New data series on topics of interest are included as and when available. Brief explanatory notes on coverage and data sources, wherever possible, have also been provided for the benefit of the users.

The NSB would like to acknowledge the contribution of different ministries, agencies, corporations and private organizations that provided data and information for SYB 2018. In order to improve the quality of the forthcoming issues, we solicit comments and suggestions from the users of this yearbook.

Director
National Statistics Bureau
NOTES FOR USERS

1. Unless otherwise indicated, the present issue of the Yearbook contains statistics available as of December 2017 and until June 2018.

2. For some tables, there are footnotes indicating information specific to each figure in the table.

3. The following notations are used in the tables:
   ...  not available/not applicable
   ()   negative figures
   CY   calendar year (from January to December)
   FY   fiscal year (from July to June, example: 2014/15)

4. Detail figures in the tables may not add up to the totals because of rounding.

5. When contents of this book are to be quoted or copied in other publication/report, please give due credit by referring the title of this yearbook (Example) Source: Statistical Yearbook of Bhutan 2018, National Statistics Bureau.

6. For additional information on data or for any other queries, please refer to the original source or National Statistics Bureau.
Numbering and Scientific notations

Hundred $= 10^2$
Thousand $= 10^3$
Million $= 10^6$
Billion $= 10^9$
Trillion $= 10^{12}$

A. Length Measurement

I. Metric Equivalents

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<tr>
<th>Metric</th>
<th>Equivalent</th>
<th>Abbreviation</th>
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<tr>
<td>10 mm</td>
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</tr>
<tr>
<td>10 cm</td>
<td>1 dm</td>
<td>cm</td>
</tr>
<tr>
<td>10 dm</td>
<td>1 m</td>
<td>m</td>
</tr>
<tr>
<td>10 m</td>
<td>1 dkm</td>
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<tr>
<td>10 dkm</td>
<td>1 hm</td>
<td>dkm</td>
</tr>
<tr>
<td>10 hm</td>
<td>1 km</td>
<td>hm</td>
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II. British Units

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<td>12 inches</td>
<td>1 foot</td>
</tr>
<tr>
<td>3 feet</td>
<td>1 yard</td>
</tr>
<tr>
<td>5.5 yards</td>
<td>1 rod, pole</td>
</tr>
<tr>
<td>4 poles</td>
<td>1 chain</td>
</tr>
<tr>
<td>10 chains</td>
<td>1 furlong</td>
</tr>
<tr>
<td>8 furlongs</td>
<td>1 mile</td>
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</table>

III. Conversion from British to Metric Units (lengths)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Equivalent</th>
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<tr>
<td>1 inch</td>
<td>2.539998 cm</td>
</tr>
<tr>
<td>1 foot</td>
<td>0.3047997 m</td>
</tr>
<tr>
<td>1 yard</td>
<td>0.9143992 m</td>
</tr>
<tr>
<td>1 mile</td>
<td>1.609344 km</td>
</tr>
<tr>
<td>1 nautical mile</td>
<td>1.853182 km</td>
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<tr>
<td>1 m</td>
<td>39.3370113 inches</td>
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<tr>
<td>1 m</td>
<td>3.280843 feet</td>
</tr>
<tr>
<td>1 m</td>
<td>1.093614 yard</td>
</tr>
<tr>
<td>1 km</td>
<td>0.6213717 miles</td>
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B. Area Measurements

I. British Units

<table>
<thead>
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<th>Unit</th>
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<tbody>
<tr>
<td>144 square inches</td>
<td>1 square foot</td>
</tr>
<tr>
<td>9 square feet</td>
<td>1 square yard</td>
</tr>
<tr>
<td>30 1/4 yards</td>
<td>1 square rod, pole</td>
</tr>
<tr>
<td>40 square rod</td>
<td>1 rood</td>
</tr>
<tr>
<td>4 roods</td>
<td>1 acre</td>
</tr>
<tr>
<td>640 acres</td>
<td>1 square miles</td>
</tr>
</tbody>
</table>
II. Metric Units

100 square mm = 1 square cm
100 square cm = 1 square dm
100 square dm = 1 square m
100 square m = 1 acre
100 square acres = 1 hectare
100 hectares = 1 square km

III. Conversion from British to Metric Units (Area)
1 square yard = 0.836 square m
1 square feet = 0.093 square m
1 square inch = 6.452 square cm
1 square m = 1.196 square yard
1 square cm = 0.155 square inch
1 square mile = 2.590 square km
1 square km = 0.386 square mile

C. Weight Measurements

I. British Units
16 dram = 1 ounce
16 ounces = 1 pound
112 pounds = 1 cwt (hundredweight)
20 cwt = 1 ton
14 pounds = 1 stone

II. Metric Units
10 mg = 1 cg
10 cg = 1 dg
10 dg = 1 g
10 g = 1 dkg
10 dkg = 1 hg
10 kg = 1 quintal
200 m = 1 carat

III. Conversion from British to Metric Units
1 grain = 0.0648 g
1 ounce = 31.103 g
1 g = 15.432 grains
1 pound = 0.373 kg
1 tone = 1.016 metric tones

D. Conversion of Air Temperatures

I. Degree Celsius to degree Fahrenheit.
\((9 \times T)/5 + 32\), where “T” is temperature in degree Celsius.

II. Fahrenheit to degree Celsius.
\(5 \times (T - 32)/9\), where “T” is temperature in Fahrenheit.
### Key Facts about Bhutan

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Area (Sq. km)</td>
<td>38,394</td>
</tr>
<tr>
<td>Forest Cover (percent)</td>
<td>70.5%</td>
</tr>
<tr>
<td>Projected Population (in nos.), 2017</td>
<td>727,145</td>
</tr>
<tr>
<td>Natural Population Growth Rate (percent), PHCB 2017</td>
<td>0.9</td>
</tr>
<tr>
<td>Average Household Size, (PHCB, 2017)</td>
<td>3.9</td>
</tr>
<tr>
<td>National Language</td>
<td>Dzongkha</td>
</tr>
<tr>
<td>National Currency</td>
<td>Ngultrum (Nu.)</td>
</tr>
<tr>
<td>Number of Hospitals, 2017</td>
<td>27</td>
</tr>
<tr>
<td>Number of Doctors, 2017</td>
<td>345</td>
</tr>
<tr>
<td>Number of Civil Servants, (as of 31st December 2017)</td>
<td>28,070</td>
</tr>
<tr>
<td>Number of Schools, Institutes and Centers, 2017</td>
<td>1,854</td>
</tr>
<tr>
<td>Number of Teachers, Lecturers, Instructors &amp; Trainers, 2017</td>
<td>12,057</td>
</tr>
<tr>
<td>Number of Students (Including Institutes &amp; NFE), 2017</td>
<td>213,766</td>
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<tr>
<td>Labour Force Participation Rate, (LFS 2016)</td>
<td>62.2</td>
</tr>
<tr>
<td>Unemployment Rate, (LFS 2016)</td>
<td>2.1</td>
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<td>Telephone Sets in Use, 2017</td>
<td>21,364</td>
</tr>
<tr>
<td>B-Mobile Subscriber (Nos.), 2017</td>
<td>475,394</td>
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<tr>
<td>Tashicell Subscriber (Nos.), 2017</td>
<td>255,229</td>
</tr>
<tr>
<td>Postal Infrastructure (Nos.), 2017</td>
<td>88</td>
</tr>
<tr>
<td>Total Road Length (Km.), 2017</td>
<td>18,180.9</td>
</tr>
<tr>
<td>Number of Registered Vehicles, June 2017</td>
<td>96,307</td>
</tr>
<tr>
<td>Electricity Generation (MU), 2017</td>
<td>7,729.77</td>
</tr>
<tr>
<td>Electricity Exports (MU), 2017</td>
<td>5,700.99</td>
</tr>
<tr>
<td>Tourist Arrivals (dollar paying tourist), 2017</td>
<td>62,272</td>
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<tr>
<td>Revenue Earned from Tourism (million US $), 2017</td>
<td>79.81</td>
</tr>
<tr>
<td>Total Industrial Establishments, 2017</td>
<td>43,924</td>
</tr>
<tr>
<td>Balance of Trade (million Nu.), 2017</td>
<td>(29,699.0)</td>
</tr>
<tr>
<td>Exchange Rate (Calendar Year), Nu. Per US $, 2017</td>
<td>65.10</td>
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<tr>
<td>Gross International Money Reserves (million US $), 2016/17</td>
<td>1,103.76</td>
</tr>
<tr>
<td>Total Eleventh Plan Budgetary Outlay (million Nu.) 2013-2018</td>
<td>213,291.46</td>
</tr>
<tr>
<td>GDP at Current Price (million Nu.), 2016/17</td>
<td>164,627.92</td>
</tr>
<tr>
<td>Annual Average Inflation Rate (percent), 2017</td>
<td>4.96</td>
</tr>
<tr>
<td>Purchasing Power of Nu. 2017 (Base Year =2012)</td>
<td>76.22</td>
</tr>
</tbody>
</table>
Location and Extent

Bhutan is a small and landlocked country, situated between China (Tibet) and India. It has an area of 38,394 square kilometers. It has east-west dimension (longest) stretching around 300 kilometers and 170 kilometers at its maximum north-south dimension. Bhutan is located in the eastern Himalayas and is mostly mountainous and heavily forested. It shares 470 kilometers long border with Tibet (China’s Xizang Autonomous Region) in the north and northwest, 605 kilometers with the Indian state of Sikkim in the west, West Bengal in the southwest, Assam in the south and southeast, and Arunachal Pradesh in the east.

About 70 percent of the Kingdom is covered with forests; 7 percent with year-round snow and glaciers; nearly 3 percent is cultivated or agriculture areas; and 4 percent as meadows and pastures, while rest of the land is either barren, rocky or scrubland.

Relief and Surface Features

Bhutan is one of the most rugged mountain terrains in the world. It has elevations ranging from 160 meters to more than 7,000 meters above sea level. Bhutan’s highest peak Jhomo Lhari, overlooking the Chumbi Valley in the west, is 7,314 meters above sea level.

In the north, the snowcapped Great Himalayan Range reaches heights of over 7,500 meters above sea level and extends along the Bhutan-China border. The northern region consists of an arc of glaciated mountain peaks with an arctic climate at the highest elevations. Alpine valleys in this region provide pasturage for livestock tended by a sparse population practicing transhumance.

The Inner Himalayas are southward spurs of the Great Himayalan Range. The Black Mountains, in central Bhutan, form a watershed between two major river systems, the Mo Chhu and the Drangme Chhu. Peaks in the Black Mountains range between 1,500 meters and 2,700 meters above sea level, and the fast-flowing rivers have carved out spectacular gorges in the lower mountain areas. The woodlands of the central region provide most of Bhutan’s valuable forest production. Eastern Bhutan is divided by yet another southward spur. Western Bhutan has fertile, cultivated valleys and terraced river basins.

In the south, the Southern Hills, or Siwalik Hills, the foothills of the Himalayas, are covered with dense deciduous forest, alluvial lowland river valleys, and mountains that reach to around 1,500 meters above sea level. The foothills descend into the subtropical plain.
Climate and Vegetation

The country is divided into three distinct climatic zones: alpine, temperate and subtropical zone. Bhutan's climate is as varied as its altitudes and, like most of Asia, it is affected by the monsoons. The climate is humid and subtropical in the southern plains and foothills, temperate in the inner Himalayan valleys of the central regions, and cold in the north, with year-round snow on the main Himalayan range.

Temperatures vary according to elevation. Most of the central portion of the country experiences a cool, temperate climate year round. In the south, a hot, humid climate helps maintain a fairly even temperature range of between 15° C and 30° C year-round, although temperatures sometimes reach beyond 35° C in the valleys during the summer.

Annual precipitation ranges widely in various parts of the country. In the severe climate of the north, there is only about forty millimeters of annual precipitation—primarily snow. In the temperate central regions, a yearly average of around 1,000 millimeters is more common, and 7,800 millimeters per year has been registered at some locations in the humid, subtropical south, ensuring the thick tropical forest. Thimphu experiences dry winter months (December through February) and almost no precipitation until March, when rainfall averages 20 millimeters a month and increases steadily thereafter to a high of 220 millimeters in August for a total annual rainfall of nearly 650 millimeters.

Bhutan's generally dry spring starts in early March and lasts until mid-April. Summer weather commences in mid-April with occasional showers and continues through the early monsoon rains of late June. The summer monsoon lasts from late June through late September with heavy rains from the southwest. The monsoon weather, blocked from its northward progress by the Himalayas, brings heavy rains, high humidity, flash floods and landslides, and numerous misty, overcast days. Autumn, from late September or early October to late November, follows the rainy season. It is characterized by bright, sunny days and some early snowfalls at higher elevations. From late November until March, winter sets in, with frost throughout much of the country and snowfall common above elevations of 3,000 meters. The winter northeast monsoon brings gale-force winds down through high mountain passes.

There is a pronounced difference in the vegetation cover in three different zones of the country and it is mostly due to the prevalence of varied climatic conditions across the kingdom. The southern foothills are mostly covered by the dense and thick deciduous trees while the inner regions are dotted by an infinite variety of plants, flowers and trees including birch, pine, chestnut, oak, apples, peaches and plums are also grown in the fertile valleys. The northern part with the tundra type of climate allows the growth of coniferous trees and other alpines growths like magnolia, rhododendrons, birch, fir, spruce etc… The vegetation is overall expression of various ecological factors, and it is one of the basic analytical tools for developing and understanding the mountain environment.
Drainage Pattern

Fed by fresh snow each winter and slow melting in the summer, the glaciers bring millions of liters of fresh water to Bhutan and downriver areas each year. Bhutan has four major river systems: the Drangme Chhu; the Puna Tsang Chhu; the Wang Chhu; and the Amo Chhu. Each flows swiftly out of the Himalayas, southerly through the Duars to join the Brahmaputra River in India. The largest river system, the Drangme Chhu, flows southwesterly from India's state of Arunachal Pradesh and has three major tributaries: the Drangme Chhu, Mangde Chhu, and Chamkhar Chhu. These rivers form the Drangme Chhu basin. In the Duars, where eight tributaries join, the Drangme Chhu is called the Manas Chhu. The 320-kilometer-long Puna Tsang Chhu rises in northwestern Bhutan as the Mo Chhu and Pho Chhu, which are fed by the snows and glaciers from the Great Himalayan Range. They flow southerly to Punakha, where they join to form the Puna Tsang Chhu, which flows southerly into India's state of West Bengal. The Wang Chhu, which is 370 kilometers flows southeasterly through west-central Bhutan, drains the Ha, Paro, and Thimphu valleys, and continues through the foothills, before it finally drains into West Bengal. The smallest river system, the Torsa Chhu, known as the Amo Chhu in its northern reaches, flows swiftly through western Bhutan before broadening near Phuntsholing and then flowing into India. Glaciers in northern Bhutan, which cover about 10 percent of the total surface area, are an important renewable source of water for Bhutan's rivers.

Government

On 17th December 1907, the civil and monastic representatives unanimously crowned Ugyen Wangchuck as the first hereditary monarch of Bhutan. It was the strength and the farsightedness of Ugyen Wangchuck that for the first time Bhutan was united under a central authority providing the country with stability and opportunity for development. In 1926 his son Jigme Wangchuck succeeded Ugyen Wangchuck. The third Druk Gyalpo, Jigme Dorji Wangchuck began a campaign of modernization and expansion of Bhutan's government and society based on the accomplishments of his two predecessors in uniting the country under a strong central authority. Hence, the National Assembly consisting of representatives of the people, the Monastic order and civil administration was established in 1953.

The fourth Druk Gyalpo, Jigme Singye Wangchuk became the King in 1972. There had been steady decentralization of decision-making and institute building since then. His Majesty's philosophy of Gross National Happiness guided Bhutan into the 21st century. The most momentous change in the structure of the government came in 1998 after the devolution of the executive power by His Majesty the King to the Council of Ministers. The Fourth Druk Gyalpo initiated the drafting of Bhutan's first Constitution in 2001 and was eventually enacted in 2008. The King abdicated the throne in favour of the crown prince in 2006.

The fifth Druk Gyalpo, His Majesty King Jigme Khesar Namgyel Wangchuck acceded to the throne on December 14, 2006 and was crowned on November 6, 2008. The head of government is the Prime Minister, who is elected from the ruling political party.
Administrative System

The administrative system in the country consists of Central Government and Local Government. The Central Government comprises of Ministries, Departments and Autonomous bodies. The Local Government comprises of Dzongkhag Tshogdu, Gewog Tshogde and the Dzongkhag Thromde Tshogde.

In order to plan and review the development activities most efficiently in the Dzongkhag, the Dzongkhag Tshogdu was established in 1981. The Dzongkhag Tshogdu compromises of elected representatives of the people with its chairman elected among the Gups. Similarly, the Gewog Tshogde was established in 1991 to further decentralize the decision making process. The Gewog Tshogde comprises of Gup, Mangmi and Tshogpas. The main role of the Gewog Tshogde is to plan, prioritize and implement the developmental activities in their respective Gewogs.

The National Assembly

The National Assembly (Gyelyong Tshogdu) consists of 47 members who are elected representatives from the 47 Constituencies. The main functions of the National Assembly are to enact, amend or repeal laws and approve the national budget. The National Assembly also reviews and approves the Five Year Plans which are formulated by the government in consultation with the people of every Dzongkhag. It also deliberates on issues that affect the security and well-being of the country and promotes the welfare and happiness of the people. The National Assembly meets twice a year. However, if an important and emergency matter demands, special sessions of the National Assembly may be convened by the speaker. The duration of the National Assembly session is governed by the nature and scope of the points for discussion received from the people. A session normally lasts about three weeks. The speaker is the presiding officer of the House and is assisted by a Deputy Speaker. The day to day administration of the National Assembly rests with the secretariat which is headed by a secretary.

The National Council

The National Council was established in 2008 under Article 11 of the Constitution of Bhutan. There are 25 members of which 20 are elected by the people from 20 Dzongkhags and the remaining 5 are nominated by His Majesty, the Druk Gyalpo. Their tenure is for five years which commences from the date of the first sitting. The main functions of the National Council are to:

i. Ensure that the government safeguards the interest of the nation and fulfills the aspirations of the people through public review of polices and issues, bills and other legislation, and scrutiny of state functions.
ii. Act as the house of review on matters affecting the security and sovereignty of the country and the interests of the nation and people that need to be brought to the notice of His Majesty, the Druk Gyalpo, the Prime Minister and the National Assembly.

The National Council meets twice a year. However, special sessions may also be convened depending upon the needs. The chairperson, who is elected from 25 members of the National Council is the Presiding Officer of the House, and is assisted by a Deputy Chairperson. The National Council has seven working committees; namely the House Committee, the Legislative Committee, the Economic Affairs Committee, the Social & Cultural Affairs Committee, the Natural Resources and Environment Committee, the Good Governance Committee and the Foreign Relation Committee. Each committee has a minimum of seven members headed by a Chairperson who is elected from the seven members. The National Council is assisted in the discharge of its parliamentary functions by a secretariat which is headed by a Secretary General.

The Monastic Body

The Monastic Body comprises of the Central Monastic Body and the Rabdeys (Dzongkhag Monastic Body). The Central Monastic Body receives annual subsidy from the Government to manage and run its day to day affairs. The Monastic Body is the sole arbiter on religious matters. The Je-Khenpo (Chief Abbot) is the head of the monastic body and is responsible for the nation's religious affairs. He is chosen from among high ranking monks. Apart from being thoroughly versed in all branches of religious scholarship and practice, the candidate must also have undergone prolonged mediation. The present Je-Khenpo Trulku Jigme Chhoeda is the 70th in succession. He was appointed in 1996.

The Je-Khenpo is assisted by five high-ranking Lopens (Masters) viz. Dorji Lopen acts as Deputy Je-Khenpo and the Chief of all Lopens (Masters), Yangbi Lopen heads the liturgical division inclusive of Sacred Dances, Rituals Arts, and Metrical Rhythm, Drabi Lopen heads Lexicographical division that includes literature, grammar, lexicon, metrics and prosody, Tshenyi Lopen heads the division of Metaphysics and Logic and Tsugla Lopen is responsible for the higher studies of the monastic Body. There are also monastic bodies in the Dzongkhags headed by Lam Neeten. He is assisted by Umzey, Kudrung and the lopens (teachers) of different areas.
This chapter contains statistics on the basic attributes of population such as the size and the growth of population, its geographical distribution, its structure by sex and age etc. The principle source of data on population is the population and housing census, which is conducted every ten years. The Population and Housing Census in Bhutan was first conducted in May 2005 and the second round of Population and Housing Census was carried out in May 2017 as per the UN standards and had been enumerated using both de facto and de jure method. The census provides a complete count of the population according to a range of characteristics such as demography, health, education and other social aspects. It is useful not only because they provide a range of current population data but also used as a benchmark for making population estimates in non-census years and for population projections.

The other aspects of population statistics relates to the demographic characteristics of the population. The most common source of information on demography is the vital registration system (which usually covers the registration of births and deaths and sometimes marriages and divorce).

The Statistics presented in this chapter are from the Population and Housing Census of Bhutan 2005 and 2017. The actual resident population enumerated during May 2005 is 634,982 persons out of which 333,595 persons are male and 301,387 are females, while it is 735,553 persons in 2017. The total Bhutanese population found during 2017 PHCB was 681,720 persons. The total urban population in 2005 was 196,111 persons while in 2017 there were 274,316 persons in urban areas. Similarly the total number of rural population in 2005 and 2017 were 438,871 and 452,829 respectively.
The interpretations of demographic indicators are:

**Crude Birth Rate:** Number of live births in a year per thousand population.

**General Fertility Rate:** Number of live births in a year per thousand women in the childbearing age (15 to 49).

**General Marital Fertility Rate:** A ratio of number of births to 1000 married women in the reproductive ages.

**Total Fertility Rate:** Average number of children born by women during their reproductive span of life.

**Gross Reproductive Rate:** Measures the extent to which a cohort of newly born girls will replace their mothers under pre-determined schedules of fertility and mortality.

**Crude Death Rate:** Number of deaths in a year per thousand population.

**Infant Mortality Rate:** Number of deaths during first year of life per thousand live births.

**Maternal Mortality Ratio:** The annual number of deaths of women from pregnancy-related causes per 100,000 live births.

**Rate of Natural Increase:** The difference between the crude birth rate and the crude death rate.

**Dependency Ratio:** Measures the number of dependents as a percentage of population aged 15 to 64. Child dependency refers to children aged 0 to 14 years, while old age dependency refers to persons aged 65 and over.

**Index of Aging:** It is the number of persons aged 65 and over as a percentage of the number of persons aged 0 to 14.
Table 1.1: Population by Sex and Dzongkhag/Thromde, Bhutan 2017

<table>
<thead>
<tr>
<th>Dzongkhag/Thromde</th>
<th>Number of Persons</th>
<th>Percent</th>
<th>Sex Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Both</td>
</tr>
<tr>
<td>Bumthang</td>
<td>9,396</td>
<td>8,424</td>
<td>17,820</td>
</tr>
<tr>
<td>Chhukha</td>
<td>36,041</td>
<td>32,925</td>
<td>68,966</td>
</tr>
<tr>
<td>Phuentshogling Tromde</td>
<td>15,052</td>
<td>12,606</td>
<td>27,658</td>
</tr>
<tr>
<td>Other than Phuentshogling Tromde</td>
<td>20,989</td>
<td>20,319</td>
<td>41,308</td>
</tr>
<tr>
<td>Dagana</td>
<td>12,956</td>
<td>12,009</td>
<td>24,965</td>
</tr>
<tr>
<td>Gasa</td>
<td>2,104</td>
<td>1,848</td>
<td>3,952</td>
</tr>
<tr>
<td>Haa</td>
<td>7,435</td>
<td>6,220</td>
<td>13,658</td>
</tr>
<tr>
<td>Lhuentse</td>
<td>7,407</td>
<td>7,030</td>
<td>14,437</td>
</tr>
<tr>
<td>Monggar</td>
<td>18,247</td>
<td>18,030</td>
<td>35,278</td>
</tr>
<tr>
<td>Paro</td>
<td>23,941</td>
<td>22,375</td>
<td>46,316</td>
</tr>
<tr>
<td>Pema Gatshel</td>
<td>11,922</td>
<td>11,710</td>
<td>23,632</td>
</tr>
<tr>
<td>Punakha</td>
<td>15,079</td>
<td>13,661</td>
<td>28,740</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>18,329</td>
<td>17,000</td>
<td>35,329</td>
</tr>
<tr>
<td>Samdrup Jongkhar Tromde</td>
<td>5,016</td>
<td>4,309</td>
<td>9,325</td>
</tr>
<tr>
<td>Other than Samdrup Jongkhar Tromde</td>
<td>13,313</td>
<td>12,441</td>
<td>25,754</td>
</tr>
<tr>
<td>Samtse</td>
<td>32,022</td>
<td>30,568</td>
<td>62,590</td>
</tr>
<tr>
<td>Sarpang</td>
<td>24,018</td>
<td>21,986</td>
<td>46,004</td>
</tr>
<tr>
<td>Gelegphu Tromde</td>
<td>5,146</td>
<td>4,712</td>
<td>9,858</td>
</tr>
<tr>
<td>Other than Gelegphu Tromde</td>
<td>18,872</td>
<td>17,274</td>
<td>36,146</td>
</tr>
<tr>
<td>Thimphu</td>
<td>72,522</td>
<td>66,214</td>
<td>138,736</td>
</tr>
<tr>
<td>Thimphu Tromde</td>
<td>58,996</td>
<td>55,555</td>
<td>114,551</td>
</tr>
<tr>
<td>Other than Thimphu Tromde</td>
<td>13,526</td>
<td>10,659</td>
<td>24,185</td>
</tr>
<tr>
<td>Trashigang</td>
<td>23,414</td>
<td>22,104</td>
<td>45,518</td>
</tr>
<tr>
<td>Trashil Yangtse</td>
<td>8,719</td>
<td>8,581</td>
<td>17,300</td>
</tr>
<tr>
<td>Trongsa</td>
<td>11,878</td>
<td>8,082</td>
<td>19,960</td>
</tr>
<tr>
<td>Tshirang</td>
<td>11,526</td>
<td>10,850</td>
<td>22,376</td>
</tr>
<tr>
<td>Wangdue Phodrang</td>
<td>24,302</td>
<td>17,884</td>
<td>42,186</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>9,195</td>
<td>8,568</td>
<td>17,763</td>
</tr>
<tr>
<td>Bhutan</td>
<td>380,453</td>
<td>346,692</td>
<td>727,145</td>
</tr>
</tbody>
</table>

Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day.
Source: Population & Housing Census of Bhutan, 2017
Table 1.2: Population by Sex, Area and Dzongkhag, Bhutan 2017

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>Number of Persons</th>
<th>Rural</th>
<th>Both Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Both Sex</td>
</tr>
<tr>
<td>Bumthang</td>
<td>3,570</td>
<td>3,066</td>
<td>6,636</td>
</tr>
<tr>
<td>Chhukha</td>
<td>18,981</td>
<td>16,540</td>
<td>35,521</td>
</tr>
<tr>
<td>Dagana</td>
<td>2,450</td>
<td>2,263</td>
<td>4,713</td>
</tr>
<tr>
<td>Gasa</td>
<td>795</td>
<td>571</td>
<td>1,366</td>
</tr>
<tr>
<td>Haa</td>
<td>1,680</td>
<td>1,418</td>
<td>3,098</td>
</tr>
<tr>
<td>Lhuentse</td>
<td>1,283</td>
<td>992</td>
<td>2,275</td>
</tr>
<tr>
<td>Monggar</td>
<td>5,417</td>
<td>4,880</td>
<td>10,297</td>
</tr>
<tr>
<td>Paro</td>
<td>6,058</td>
<td>5,855</td>
<td>11,913</td>
</tr>
<tr>
<td>Pema Gatshel</td>
<td>4,079</td>
<td>3,546</td>
<td>7,625</td>
</tr>
<tr>
<td>Punakha</td>
<td>3,846</td>
<td>3,200</td>
<td>7,046</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>6,518</td>
<td>5,656</td>
<td>12,174</td>
</tr>
<tr>
<td>Samtse</td>
<td>4,803</td>
<td>4,871</td>
<td>9,674</td>
</tr>
<tr>
<td>Sarang</td>
<td>6,798</td>
<td>6,212</td>
<td>13,010</td>
</tr>
<tr>
<td>Thimphu</td>
<td>59,453</td>
<td>56,064</td>
<td>115,517</td>
</tr>
<tr>
<td>Trashigang</td>
<td>5,379</td>
<td>4,729</td>
<td>10,108</td>
</tr>
<tr>
<td>Trashi Yangtse</td>
<td>1,887</td>
<td>1,660</td>
<td>3,547</td>
</tr>
<tr>
<td>Trongsa</td>
<td>1,899</td>
<td>1,647</td>
<td>3,546</td>
</tr>
<tr>
<td>Tirang</td>
<td>1,885</td>
<td>1,625</td>
<td>3,510</td>
</tr>
<tr>
<td>Wangdue Phodrang</td>
<td>5,217</td>
<td>4,663</td>
<td>9,880</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>1,857</td>
<td>1,654</td>
<td>3,511</td>
</tr>
<tr>
<td><strong>Bhutan</strong></td>
<td><strong>143,855</strong></td>
<td><strong>131,112</strong></td>
<td><strong>274,967</strong></td>
</tr>
</tbody>
</table>

*Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day*

*Source: Population & Housing Census of Bhutan, 2017*
Table 1.3: Population by Age, Sex and Area, Bhutan 2017

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Number of Persons</th>
<th>Both Areas</th>
<th>Sex Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Urban Male</td>
<td>Female</td>
<td>Both Sex</td>
</tr>
<tr>
<td>0-4</td>
<td>11,071</td>
<td>10,409</td>
<td>21,480</td>
</tr>
<tr>
<td>5-9</td>
<td>11,436</td>
<td>11,143</td>
<td>22,579</td>
</tr>
<tr>
<td>10-14</td>
<td>12,136</td>
<td>12,163</td>
<td>24,299</td>
</tr>
<tr>
<td>15-19</td>
<td>15,073</td>
<td>15,328</td>
<td>30,401</td>
</tr>
<tr>
<td>20-24</td>
<td>19,006</td>
<td>16,766</td>
<td>35,772</td>
</tr>
<tr>
<td>25-29</td>
<td>18,829</td>
<td>16,898</td>
<td>35,727</td>
</tr>
<tr>
<td>30-34</td>
<td>14,792</td>
<td>13,070</td>
<td>27,862</td>
</tr>
<tr>
<td>35-39</td>
<td>12,114</td>
<td>10,436</td>
<td>22,550</td>
</tr>
<tr>
<td>40-44</td>
<td>8,434</td>
<td>6,486</td>
<td>14,920</td>
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<td>45-49</td>
<td>6,848</td>
<td>5,132</td>
<td>11,980</td>
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<tr>
<td>50-54</td>
<td>4,731</td>
<td>3,629</td>
<td>8,360</td>
</tr>
<tr>
<td>55-59</td>
<td>2,902</td>
<td>2,600</td>
<td>5,502</td>
</tr>
<tr>
<td>60-64</td>
<td>2,160</td>
<td>2,173</td>
<td>4,333</td>
</tr>
<tr>
<td>65-69</td>
<td>1,483</td>
<td>1,519</td>
<td>3,002</td>
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<td>70-74</td>
<td>1,072</td>
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<td>914</td>
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<td>80-84</td>
<td>544</td>
<td>630</td>
<td>1,174</td>
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<tr>
<td>85+</td>
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<td>484</td>
<td>905</td>
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Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day
Source: Population & Housing Census of Bhutan, 2017
Table 1.4: Population by Broad Age Groups, Dependency Ratios, Ageing Index and Dzongkhag/Thromde, Bhutan 2017

<table>
<thead>
<tr>
<th>Dzongkhag/Thromde</th>
<th>Population by Broad Age Groups</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>0 - 14</td>
</tr>
<tr>
<td>Bumthang</td>
<td>4,930</td>
</tr>
<tr>
<td>Chhukha</td>
<td>17,078</td>
</tr>
<tr>
<td>Phuentshogling Thromde</td>
<td>5,767</td>
</tr>
<tr>
<td>Other than Phuentshogling Thromde</td>
<td>11,311</td>
</tr>
<tr>
<td>Dagana</td>
<td>7,024</td>
</tr>
<tr>
<td>Gasa</td>
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</tr>
<tr>
<td>Haa</td>
<td>3,582</td>
</tr>
<tr>
<td>Lhuentse</td>
<td>4,263</td>
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<tr>
<td>Monggar</td>
<td>11,399</td>
</tr>
<tr>
<td>Paro</td>
<td>11,406</td>
</tr>
<tr>
<td>Pema Gatshel</td>
<td>6,512</td>
</tr>
<tr>
<td>Punakha</td>
<td>7,364</td>
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<tr>
<td>Samdrup Jongkhar</td>
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<tr>
<td>Samdrup Jongkhar Thromde</td>
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<tr>
<td>Samtse</td>
<td>16,884</td>
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<tr>
<td>Sarpang</td>
<td>11,215</td>
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<tr>
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<tr>
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<tr>
<td>Thimphu Thromde</td>
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<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>Trashi Yangtse</td>
<td>5,582</td>
</tr>
<tr>
<td>Trongsa</td>
<td>4,124</td>
</tr>
<tr>
<td>Tsirang</td>
<td>5,874</td>
</tr>
<tr>
<td>Wangdue Phodrang</td>
<td>10,689</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>5,138</td>
</tr>
<tr>
<td><strong>Bhutan</strong></td>
<td><strong>189,417</strong></td>
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*Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day*
*Source: Population & Housing Census of Bhutan, 2017*
<table>
<thead>
<tr>
<th>Dzongkhag/Thromde</th>
<th>Population by Broad Age Groups</th>
<th>Dependency Ratio</th>
<th>Ageing Index</th>
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<td>Old Age Dependency Ratio</td>
<td>Total Dependency Ratio</td>
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<td>1,233</td>
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<td>1,168</td>
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<td>2,643</td>
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Table 1.5: Population Density by Dzongkhag, Bhutan 2005 and 2017

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<th>Population</th>
<th>2005</th>
<th>2017</th>
<th>Density (Population per km²)</th>
<th>2005</th>
<th>2017</th>
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<td>14</td>
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<td>12</td>
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<tr>
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<td>19,960</td>
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<td>11</td>
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<td>22,376</td>
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</tr>
<tr>
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<td>31,135</td>
<td>42,186</td>
<td>7</td>
<td>10</td>
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</tr>
<tr>
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<td>17,763</td>
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<tr>
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<td><strong>727,145</strong></td>
<td><strong>17</strong></td>
<td><strong>19</strong></td>
<td></td>
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</tr>
</tbody>
</table>

*Note: Excludes 8,408 tourists/non-Bhutanese found in hotels on the census day*

*Source: Population & Housing Census of Bhutan, 2017*
Table 1.6: Mean Age at First Birth by Dzongkhag, Bhutan 2017

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>Urban</th>
<th>Rural</th>
<th>Both Areas</th>
</tr>
</thead>
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<td>22</td>
</tr>
<tr>
<td>Chhukha</td>
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<td>21</td>
<td>21</td>
</tr>
<tr>
<td>Dagana</td>
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<td>20</td>
<td>20</td>
</tr>
<tr>
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<td>21</td>
<td>21</td>
</tr>
<tr>
<td>Haa</td>
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<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Lhuentse</td>
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<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Monggar</td>
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<td>20</td>
<td>21</td>
</tr>
<tr>
<td>Paro</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Pema Gatshel</td>
<td>21</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>Punakha</td>
<td>22</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>21</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
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<td>21</td>
<td>21</td>
</tr>
<tr>
<td>Sarpang</td>
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<td>21</td>
</tr>
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<td>Thimphu</td>
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</tr>
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<td>Tsirang</td>
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<td>Wangdue Phodrang</td>
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<td><strong>21</strong></td>
<td><strong>21</strong></td>
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</table>

Source: Population & Housing Census of Bhutan, 2017
Table 1.7: Crude Birth Rate, Total Fertility Rate, Crude Death Rate, General Fertility Rate, Infant Mortality Rate, Child Mortality Rate and Under 5 Mortality Rate by Dzongkhag/Thromde, Bhutan 2017

<table>
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<th>Dzongkhag /Thromde</th>
<th>Crude Birth Rate (CBR)</th>
<th>Total Fertility Rate (TFR)</th>
<th>Crude Death Rate (CDR)</th>
<th>General Fertility Rate (GFR)</th>
<th>Infant Mortality Rate (IMR)</th>
<th>Child Mortality Rate (CMR)</th>
<th>Under Five Mortality Rate (USMR)</th>
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<td>20.3</td>
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<td>47.3</td>
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<tr>
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<td>6.2</td>
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<td>16.0</td>
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<td>48.3</td>
<td>14.7</td>
<td>18.0</td>
<td>32.7</td>
</tr>
<tr>
<td>Gelegphu Thromde</td>
<td>13.5</td>
<td>...</td>
<td>...</td>
<td>43.7</td>
<td>7.5</td>
<td>30.1</td>
<td>37.6</td>
</tr>
<tr>
<td>Other than Gelegphu Thromde</td>
<td>13.3</td>
<td>...</td>
<td>6.6</td>
<td>49.7</td>
<td>16.7</td>
<td>14.6</td>
<td>31.3</td>
</tr>
<tr>
<td>Thimphu</td>
<td>18.7</td>
<td>1.7</td>
<td>5.2</td>
<td>61.2</td>
<td>6.5</td>
<td>6.5</td>
<td>13.1</td>
</tr>
<tr>
<td>Thimphu Thromde</td>
<td>19.2</td>
<td>...</td>
<td>...</td>
<td>61.0</td>
<td>5.4</td>
<td>5.4</td>
<td>10.9</td>
</tr>
<tr>
<td>Other than Thimphu Thromde</td>
<td>16.4</td>
<td>...</td>
<td>5.0</td>
<td>62.6</td>
<td>12.6</td>
<td>12.6</td>
<td>25.2</td>
</tr>
<tr>
<td>Trashigang</td>
<td>12.8</td>
<td>1.6</td>
<td>8.6</td>
<td>49.8</td>
<td>20.7</td>
<td>34.4</td>
<td>55.1</td>
</tr>
<tr>
<td>Trashi Yangtse</td>
<td>16.6</td>
<td>2.3</td>
<td>7.1</td>
<td>69.2</td>
<td>10.4</td>
<td>10.4</td>
<td>20.8</td>
</tr>
<tr>
<td>Trongsa</td>
<td>15.3</td>
<td>1.9</td>
<td>6.0</td>
<td>64.6</td>
<td>16.4</td>
<td>6.6</td>
<td>23.0</td>
</tr>
<tr>
<td>Tsirang</td>
<td>12.9</td>
<td>1.7</td>
<td>7.4</td>
<td>50.4</td>
<td>17.4</td>
<td>31.3</td>
<td>48.6</td>
</tr>
<tr>
<td>Wangdue Phodrang</td>
<td>16.9</td>
<td>2.3</td>
<td>8.1</td>
<td>74.4</td>
<td>33.7</td>
<td>25.3</td>
<td>59.0</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>15.3</td>
<td>2.2</td>
<td>6.8</td>
<td>64.7</td>
<td>22.1</td>
<td>18.4</td>
<td>40.4</td>
</tr>
<tr>
<td>Bhutan</td>
<td><strong>15.5</strong></td>
<td><strong>1.7</strong></td>
<td><strong>6.7</strong></td>
<td><strong>57.3</strong></td>
<td><strong>15.1</strong></td>
<td><strong>19.0</strong></td>
<td><strong>34.1</strong></td>
</tr>
</tbody>
</table>

Source: Population & Housing Census of Bhutan, 2017
Guided by the national development philosophy of Gross National Happiness, the health sector envisions building “a healthy and happy nation through a dynamic professional health system with attainment of highest standard of health for the people within the broader framework of overall national development, in the spirit of social justice and equity.”

Since the early years (1960s) of the introduction of modern health care development in Bhutan (Allopathic), the health programmes and interventions have focused on the preventive aspects of health care and services including, the prevention of morbidity, the promotion of positive determinants of health, and the control of infectious disease. These measures were further being reinforced after being signatory to the Alma Ata declaration in 1978.

There have been a continuous efforts and remarkable strides in improving the modern health care systems and services since then. The Ministry of Health has now a wide spread network of Health Facilities covering around 95 percent of the total population within three hours walking distance of the health facility. Institutional health facilities were earlier concentrated in the urban agglomerated centers, but today the emphasis has shifted to the rural areas where the majority of the population live.

Health Care is delivered in a totally integrated three-tiered system with National Referral Hospital at the apex, regional referral hospitals, district hospitals, and Basic Health Units (BHUs) at the Community Level. BHUs serve remote populace and are staffed by well-trained health personnel who are equipped to treat minor ailments and advice on preventive measures to avoid the spread of communicable diseases. Extended Health Centers such as Out Reach Clinics (ORCs) and Sub-posts support these BHUs.

There are also a number of special health programs in Bhutan administered by the Ministry of Health. These mainly cover Expanded Program on Immunization (EPI), Reproductive Health (RH), Acute Respiratory Infection (ARI) later upgraded to Integrated Management of Neonatal and Childhood Illness (IMNCI), National HIV/AIDS & STIs Control Program (NACP), National Tuberculosis Control Program (NTCP), National Leprosy Program, Rural Water Supply & Sanitation Program (RWSS), Village Health Workers Program (VHW), Vector Borne Disease Control Program (VDCP), Mental Health Program, among others.
## Table 2.1: Summary of Health Facilities and Personnel, Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Facilities</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Hospitals ¹</td>
<td>32</td>
<td>31</td>
<td>31</td>
<td>30</td>
<td>27</td>
</tr>
<tr>
<td>Number of Basic Health Units ²</td>
<td>205</td>
<td>206</td>
<td>207</td>
<td>210</td>
<td>208</td>
</tr>
<tr>
<td>Number of Outreach Clinics ³</td>
<td>519</td>
<td>562</td>
<td>562</td>
<td>553</td>
<td>551</td>
</tr>
<tr>
<td>Number of Indigenous Units</td>
<td>49</td>
<td>52</td>
<td>54</td>
<td>59</td>
<td>66</td>
</tr>
<tr>
<td>Number of Sub-post</td>
<td>23</td>
<td>28</td>
<td>28</td>
<td>49</td>
<td>45</td>
</tr>
<tr>
<td>Persons per doctor ⁴</td>
<td>3,670</td>
<td>3,054</td>
<td>3,016</td>
<td>2,570</td>
<td>2,132</td>
</tr>
<tr>
<td>Ratio of beds per Nurse</td>
<td>1.6</td>
<td>1.3</td>
<td>1.2</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>Ratio of Nurses per Doctor</td>
<td>3.9</td>
<td>3.9</td>
<td>4.3</td>
<td>4.0</td>
<td>3.6</td>
</tr>
<tr>
<td>Doctors per (10,000) persons</td>
<td>2.8</td>
<td>3.3</td>
<td>3.3</td>
<td>3.9</td>
<td>4.3</td>
</tr>
<tr>
<td>Nurses per (10,000) persons</td>
<td>10.7</td>
<td>12.8</td>
<td>14.1</td>
<td>15.4</td>
<td>16.2</td>
</tr>
<tr>
<td>Pharmacists per (10,000) persons</td>
<td>0.1</td>
<td>0.2</td>
<td>0.2</td>
<td>0.3</td>
<td>0.5</td>
</tr>
<tr>
<td>HA/BHW per (10,000) persons</td>
<td>8.3</td>
<td>8.5</td>
<td>8.5</td>
<td>8.6</td>
<td>8.1</td>
</tr>
<tr>
<td>Dungtshos per (10,000) persons</td>
<td>0.5</td>
<td>0.6</td>
<td>0.6</td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>sMempas per (10,000) persons</td>
<td>1.1</td>
<td>1.2</td>
<td>1.3</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td>Persons per hospital bed</td>
<td>574</td>
<td>584</td>
<td>593</td>
<td>602</td>
<td>569</td>
</tr>
<tr>
<td>Number of hospital beds available</td>
<td>1,277</td>
<td>1,277</td>
<td>1,277</td>
<td>1,277</td>
<td>1,277</td>
</tr>
<tr>
<td>Hospital bed per 10,000 persons</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>Distribution of health facilities per (10,000) persons</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>Proportion of population within 3 hrs walking distance of a health facility (%)</td>
<td>&gt;90</td>
<td>&gt;90</td>
<td>&gt;90</td>
<td>&gt;90</td>
<td>&gt;90</td>
</tr>
<tr>
<td>Population access to safe drinking water (%)</td>
<td>96</td>
<td>95</td>
<td>95</td>
<td>95</td>
<td>98</td>
</tr>
<tr>
<td>Deliveries attended by trained personnel (%)</td>
<td>89.0</td>
<td>89.0</td>
<td>89.0</td>
<td>89.0</td>
<td>96.4</td>
</tr>
</tbody>
</table>

**Note:**

¹ Indigenous hospital is included and excludes RBA and IMTRAT Hospital

² Satellite Clinics included under BHU (Inclusive of BHU I & II)

³ ORC (Inclusive of with shed & without shed)

⁴ The population is based on latest PHCB 2017

**Source:** Annual Health Bulletin 2018, MoH, Thimphu.
Table 2.2: Type of Health Facilities by Dzongkhag, Bhutan, 2017

<table>
<thead>
<tr>
<th>District</th>
<th>Facility Type</th>
<th>ORC with shed</th>
<th>ORC without shed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hospital</td>
<td>BHU I</td>
<td>BHU II</td>
</tr>
<tr>
<td>Bumthang</td>
<td>1</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Chhukha</td>
<td>3</td>
<td>2</td>
<td>13</td>
</tr>
<tr>
<td>Dagana</td>
<td>1</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>Gasa</td>
<td>0</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Haa</td>
<td>1</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Lhuntse</td>
<td>1</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>Monggar</td>
<td>1</td>
<td>1</td>
<td>22</td>
</tr>
<tr>
<td>Paro</td>
<td>1</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Pema Gatshel</td>
<td>1</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>Punakha</td>
<td>1</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>2</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>Samtse</td>
<td>2</td>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td>Sarpang</td>
<td>2</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Thimphu</td>
<td>3</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Trashigang</td>
<td>2</td>
<td>5</td>
<td>14</td>
</tr>
<tr>
<td>Trashi Yangtse</td>
<td>1</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Trongsa</td>
<td>1</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Tsirang</td>
<td>1</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Wangdue Phodrang</td>
<td>1</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>1</td>
<td>2</td>
<td>11</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>27</strong></td>
<td><strong>23</strong></td>
<td><strong>185</strong></td>
</tr>
</tbody>
</table>

Note: Indigenous hospital included under hospital and excludes RBA and IMTART. Satellite Clinic included under BHU Satellite Clinics included under BHU

Table 2.3: Health Personnel by Category, Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Health personnel</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctors (MBBS/Specialists)</td>
<td>203</td>
<td>244</td>
<td>251</td>
<td>299</td>
<td>345</td>
</tr>
<tr>
<td>Clinical Officer/Assistant Clinical Officers</td>
<td>38</td>
<td>36</td>
<td>35</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>Nurses (Assistant Nurse/GNM/B.Sc. Nurse)</td>
<td>799</td>
<td>957</td>
<td>1,070</td>
<td>1,185</td>
<td>1,264</td>
</tr>
<tr>
<td>Health Assistants</td>
<td>455</td>
<td>514</td>
<td>548</td>
<td>592</td>
<td>600</td>
</tr>
<tr>
<td>Basic Health Workers</td>
<td>153</td>
<td>118</td>
<td>95</td>
<td>62</td>
<td>36</td>
</tr>
<tr>
<td>Drungtshos (Indigenous Physicians)</td>
<td>35</td>
<td>46</td>
<td>47</td>
<td>54</td>
<td>55</td>
</tr>
<tr>
<td>sMenpas (Sowa Menpas)</td>
<td>82</td>
<td>90</td>
<td>100</td>
<td>105</td>
<td>113</td>
</tr>
<tr>
<td>Pharmacists</td>
<td>9</td>
<td>14</td>
<td>15</td>
<td>23</td>
<td>36</td>
</tr>
<tr>
<td>Medical Lab. Technologists</td>
<td>22</td>
<td>20</td>
<td>38</td>
<td>51</td>
<td>74</td>
</tr>
<tr>
<td>Physiotherapists</td>
<td>10</td>
<td>12</td>
<td>12</td>
<td>18</td>
<td>21</td>
</tr>
<tr>
<td>Technicians</td>
<td>738</td>
<td>884</td>
<td>900</td>
<td>945</td>
<td>931</td>
</tr>
<tr>
<td>Administrative &amp; Support Staff (Regular)</td>
<td>1,194</td>
<td>1,131</td>
<td>1,112</td>
<td>1,066</td>
<td>1,010</td>
</tr>
<tr>
<td>General Service Personnel (GSP)</td>
<td>490</td>
<td>456</td>
<td>432</td>
<td>432</td>
<td>432</td>
</tr>
<tr>
<td>Elementary Service Personnel (ESP)</td>
<td>181</td>
<td>166</td>
<td>162</td>
<td>162</td>
<td>162</td>
</tr>
</tbody>
</table>

Note: ¹ Includes all medical doctors registered and certified by the Bhutan Medical and Health Council.


Table 2.4: Top Ten Morbidity, Bhutan, 2017

<table>
<thead>
<tr>
<th>Diseases</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Cold</td>
<td>234,446</td>
</tr>
<tr>
<td>Other Diseases of the Digestive System</td>
<td>97,083</td>
</tr>
<tr>
<td>Other Disorders of Skin and Subcutaneous Tissue</td>
<td>96,328</td>
</tr>
<tr>
<td>Other Musculo-Skeletal Disorders</td>
<td>91,409</td>
</tr>
<tr>
<td>Skin Infections</td>
<td>83,480</td>
</tr>
<tr>
<td>ANC, Immunization &amp; Other Counselling</td>
<td>79,991</td>
</tr>
<tr>
<td>Acute Pharyngitis/ Tronsillitis</td>
<td>69,501</td>
</tr>
<tr>
<td>Other Nervous including Peripheral Disorders</td>
<td>62,945</td>
</tr>
<tr>
<td>Other Respiratory &amp; Nose Diseases</td>
<td>58,293</td>
</tr>
<tr>
<td>Peptic Ulcer Syndrome</td>
<td>52,331</td>
</tr>
</tbody>
</table>

Table 2.5: Top Ten Inpatient Hospital Mortality, Bhutan, 2017

<table>
<thead>
<tr>
<th>Diseases</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol Liver Diseases</td>
<td>159</td>
</tr>
<tr>
<td>Other Sepsis</td>
<td>157</td>
</tr>
<tr>
<td>Other Circulatory Diseases</td>
<td>100</td>
</tr>
<tr>
<td>Other Respiratory &amp; Nose Diseases</td>
<td>88</td>
</tr>
<tr>
<td>Neonatal Death</td>
<td>72</td>
</tr>
<tr>
<td>Foetal Death &amp; Stillbirth</td>
<td>67</td>
</tr>
<tr>
<td>Pneumonia</td>
<td>67</td>
</tr>
<tr>
<td>Other Cancers</td>
<td>59</td>
</tr>
<tr>
<td>Cerebro-vascular Diseases B</td>
<td>57</td>
</tr>
<tr>
<td>Meningitis/Encephalitis</td>
<td>45</td>
</tr>
</tbody>
</table>

Table 2.6: Total Morbidity by sex and age group, Bhutan, 2017

<table>
<thead>
<tr>
<th>Name of Diseases</th>
<th>Under 1 Yr</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
<td>M</td>
</tr>
<tr>
<td><strong>Infections</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diarrhoea</td>
<td>1,601</td>
<td>1,449</td>
<td>4,704</td>
</tr>
<tr>
<td>Dysentery</td>
<td>115</td>
<td>98</td>
<td>398</td>
</tr>
<tr>
<td>Tuberculosis</td>
<td>1</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>Other Sepsis (including Septicaemia)</td>
<td>149</td>
<td>95</td>
<td>61</td>
</tr>
<tr>
<td>Congenital Syphilis</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Genital Ulcer</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Syphilis</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Urethral/Vaginal Discharges</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Other Sexually Transmitted Disease, excluding HIV/AIDS</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rickettsial Disease</td>
<td>14</td>
<td>6</td>
<td>36</td>
</tr>
<tr>
<td><strong>Viral, Protozoal &amp; Helminthic disease</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicken Pox</td>
<td>35</td>
<td>24</td>
<td>164</td>
</tr>
<tr>
<td>Acute Hepatitis A</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Acute Hepatitis B</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Other Acute Hepatitis (includes Hepatitis C &amp; E)</td>
<td>4</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Plasmodium falciparum malaria</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Plasmodium Vivax Malaria</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Malaria</td>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Visceral Leishmaniasis (Kala-azar)</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Intestinal Worms</td>
<td>10</td>
<td>10</td>
<td>106</td>
</tr>
<tr>
<td>Scabies</td>
<td>47</td>
<td>42</td>
<td>258</td>
</tr>
<tr>
<td>Streptococcus Group A</td>
<td>0</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>Other Infections (excluding ear, brain, STI)</td>
<td>381</td>
<td>375</td>
<td>894</td>
</tr>
<tr>
<td><strong>Neoplasm</strong></td>
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**cont...**
**Table 2.6 cont...**

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*Source: Annual Health Bulletin 2018, MoH, Thimphu.*
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| Total                     | 55,900    | 126,922   | 127,255    | 330,754    | 404,872  | 1,390,632 |

### Table 2.7: Inpatient Cases in all Hospitals by Sex and Age Group, Bhutan, 2017

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Table 2.7: Inpatient Cases in all Hospitals by Sex and Age Group, Bhutan, 2017

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### Injuries & Trauma

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<td>Transport Accidents</td>
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<tr>
<td>Exposure to Electric Current</td>
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<tr>
<td>Contact with Heat &amp; Hot substances &amp; exposure to smoke, fire, flames</td>
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<tr>
<td>Snake Bite</td>
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<tr>
<td>Contact with Venomous animals (excluding Snake bite)</td>
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<tr>
<td>Accidental Poisoning by and Exposure to Noxious Substances</td>
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<tr>
<td>Intentional Self-harm by Poisoning</td>
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<tr>
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<tr>
<td>Assault by Drowning and Submersion</td>
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### Other Conditions

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| Total                                   | 3,487      | 2,758    |
| Total Old Cases all Causes              | 5,969      |          |

*Note: Inpatient = those patients admitted to bed overnight (records deaths related to particular disease) in hospitals & BHU-I.*
### Indicators Under 1 Yr

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<th>1 – 4 Yrs</th>
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<th>15 – 49 Yrs</th>
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<tr>
<td>ANC, Immunization &amp; Other Counseling</td>
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<td>8</td>
<td>49</td>
<td>39</td>
<td>26</td>
<td>26</td>
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<td>Total Old Cases all Causes</td>
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</tbody>
</table>

Note: Inpatient = those patients admitted to bed overnight (records deaths related to particular disease) in hospitals & BHU-I.
Table 2.8: Outpatient Cases in all Hospitals by Sex and Age, Bhutan, 2017

<table>
<thead>
<tr>
<th>Name of Diseases</th>
<th>Under 1 Yr</th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td><strong>Infections</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diarrhoea</td>
<td>993</td>
<td>887</td>
</tr>
<tr>
<td>Dysentery</td>
<td>50</td>
<td>44</td>
</tr>
<tr>
<td>Tuberculosis</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Sepsis (including Septicaemia)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Congenital Syphilis</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Genital Ulcer</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Syphilis</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Urethral/Vaginal Discharges</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Other Sexually Transmitted Disease, excluding HIV/AIDS</td>
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<td>0</td>
</tr>
<tr>
<td>Rickettsial Disease</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td><strong>Viral, Protozoal &amp; Helminthic disease</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chicken Pox</td>
<td>19</td>
<td>14</td>
</tr>
<tr>
<td>Acute Hepatitis A</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Acute Hepatitis B</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Other Acute Hepatitis (includes Hepatitis C &amp; E)</td>
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</tr>
<tr>
<td>Plasmodium falciparum malaria</td>
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<tr>
<td>Plasmodium Vivax malaria</td>
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<td>0</td>
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<tr>
<td>Other Malaria</td>
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<td>1</td>
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<tr>
<td>Visceral Leishmaniasis (Kala-azar)</td>
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<td>0</td>
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<tr>
<td>Intestinal Worms</td>
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<td>8</td>
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<tr>
<td>Scabies</td>
<td>21</td>
<td>27</td>
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<tr>
<td>Streptococcus Group A</td>
<td>0</td>
<td>1</td>
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<tr>
<td>Other Infections (excluding ear, brain, STI)</td>
<td>187</td>
<td>211</td>
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<tr>
<td><strong>Neoplasm</strong></td>
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<tr>
<td>Oesophagus Cancer</td>
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<td>0</td>
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<tr>
<td>Stomach/ Gastric Cancer</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Colon Cancer</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rectal Cancer</td>
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<tr>
<td>Hepato-Biliary Cancer</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Pancreatic Cancer</td>
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<td>Breast Cancer</td>
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<td>0</td>
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<tr>
<td>Cervical Cancer</td>
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<td>0</td>
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<tr>
<td>Other Cancers</td>
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<td>0</td>
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<tr>
<td><strong>Blood diseases</strong></td>
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<tr>
<td>Neoplasm (benign + CIS)</td>
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<tr>
<td>Nutritional Anaemia</td>
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**Table 2.8: Outpatient Cases in all Hospitals by Sex and Age, Bhutan, 2017**

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<th>Name of Diseases Under 1 Yr</th>
<th>1 – 4 Yrs</th>
<th>5 – 14 Yrs</th>
<th>15 – 49 Yrs</th>
<th>50 - 64 Years</th>
<th>65 + Yrs</th>
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<td>M</td>
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<td>0</td>
<td>0</td>
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<td>3</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>Neoplasm (benign + CIS)</td>
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<td>0</td>
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<td>0</td>
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<td>474</td>
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*cont...*
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<th>Name of Diseases</th>
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</thead>
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<td>F</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood &amp; Immune Disorders</td>
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<td>Mental disorders</td>
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<tr>
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<td>Mental and behavioral disorder due to multiple drug use &amp; other use of psychoactive substances</td>
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<td>Psychosis</td>
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<td>Disease of Nervous system</td>
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<td>Diseases of Circulatory System</td>
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<td>5 – 14 Yrs</td>
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<tr>
<td>------------------------------------------</td>
<td>-----------</td>
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*Source: Annual Health Bulletin 2018, MoH, Thimphu.*
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Table 2.9: Number of Patient Admissions & Average Length of Stay in Dzongkhag Hospitals, Bhutan, (2016-2017)

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*Source: Annual Health Bulletin 2018, MoH, Thimphu.*
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<td>1,578</td>
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<td>6</td>
<td>7,921</td>
<td>3.5</td>
</tr>
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<td>5</td>
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### Table 2.10: Nutritional and Vitamin A Status of Children Attending Clinics by Dzongkhag, Bhutan, 2017

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<thead>
<tr>
<th>Dzongkhag</th>
<th>No. of children 6 months old</th>
<th>Child Attendances</th>
<th>No. of children 0-11 months old</th>
<th>No. of children 12-59 months old</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>New</td>
<td>Old</td>
<td>No. of children exclusively breastfed for 6 months</td>
<td>New</td>
</tr>
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<td>36</td>
<td>498</td>
<td>942</td>
<td>124</td>
</tr>
<tr>
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<td>5,290</td>
<td>969</td>
</tr>
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<td>Dagana</td>
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<td>472</td>
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<td>173</td>
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<td>Gasa</td>
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<td>31</td>
<td>48</td>
<td>11</td>
</tr>
<tr>
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<td>860</td>
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<td>94</td>
</tr>
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<td>284</td>
<td>490</td>
<td>146</td>
</tr>
<tr>
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<td>1,202</td>
<td>1,246</td>
<td>219</td>
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<td>602</td>
<td>562</td>
<td>294</td>
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<td>175</td>
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<td>507</td>
<td>50</td>
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<tr>
<td>Tsirang</td>
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<td>1,762</td>
<td>124</td>
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<td>495</td>
<td>192</td>
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<td><strong>25,460</strong></td>
<td><strong>9,502</strong></td>
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<tr>
<th>Dzongkhag</th>
<th>Child Attendances</th>
<th>Vit A Supplementation/Deworming</th>
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<tr>
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<td>Children normal (lt/ht for age)</td>
<td>Children normal (wt for age)</td>
</tr>
<tr>
<td></td>
<td>No. of children 6 months old</td>
<td>No. of children exclusively breastfed for 6 months</td>
</tr>
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<td>7,188 7,988 1,716 7,802 166</td>
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<tr>
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<td>756 872 79 274 26</td>
</tr>
<tr>
<td>Haa</td>
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<td>3,630 3,719 258 923 69</td>
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<td>5,102 5,555 296 1,123 84</td>
</tr>
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<td>14,277 15,211 787 3,922 328</td>
</tr>
<tr>
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<td>109 602 562 294 8,963 1</td>
<td>207,623 246,593 16,351 70,122</td>
</tr>
<tr>
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<td>113 262 513 186 3,225 2</td>
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</tr>
<tr>
<td>Punakha</td>
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<td>9,170 9,104 352 2,380 236</td>
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<td>16,829 22,504 724 6,959 118</td>
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<td>16,052 16,007 686 4,434 297</td>
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<tr>
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<td>49 322 357 125 2,783 252</td>
<td>5,102 5,555 296 1,123 84</td>
</tr>
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<td>Wangdue Phodrang</td>
<td>272 1,433 1,762 124 3,968 93</td>
<td>16,829 22,504 724 6,959 118</td>
</tr>
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<td>129 488 495 192 1,622 146</td>
<td>207,623 246,593 16,351 70,122</td>
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Table 2.11: Immunization Status by Dzongkhag, Bhutan, 2017

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<th>OPV 0</th>
<th>OPV3</th>
<th>DPT-Hep B 3</th>
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<td>263</td>
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<td>233</td>
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<td>831</td>
<td>831</td>
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<td>803</td>
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<td>183</td>
<td>271</td>
<td>178</td>
<td>264</td>
<td>264</td>
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<td>255</td>
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<td>237</td>
<td>232</td>
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Table 2.12: Details of Maternal & Child Health Care Activities, Bhutan, (2013-2017)

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<tr>
<th>Type of care</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
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<tr>
<td>Antenatal care attendance</td>
<td></td>
<td></td>
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<td></td>
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</tr>
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<td>12,228</td>
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<td>3rd visit</td>
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<td>11,999</td>
<td>11,306</td>
<td>...</td>
<td>...</td>
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<tr>
<td>4th visit</td>
<td>10,843</td>
<td>10,701</td>
<td>10,718</td>
<td>9,297</td>
<td>9,145</td>
</tr>
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<td>23,617</td>
<td>26,841</td>
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<td>Deliveries attended by trained health</td>
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<td>582</td>
<td>528</td>
<td>230</td>
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<td>10,291</td>
<td>10,902</td>
<td>10,718</td>
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<td>...</td>
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Table 2.13: Family Planning Methods by Type, Bhutan, (2013-2017)

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<th>2015</th>
<th>2016</th>
<th>2017</th>
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</table>

Note:  
1 IUD = No. Inserted.  
2 Pills = No. of cycles.  
3 Condoms = No. of pieces distributed.  
4 DMPA = No. of Injections.  

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<th>Dzongkhag</th>
<th>New IUD Inserted</th>
<th>Oral pills $^2$ (No. of Cycles issued)</th>
<th>DMPA $^3$ (No. Injected)</th>
<th>Vasectomy $^1$</th>
<th>Tubectomy $^1$</th>
<th>No. of Condom issued (In pieces)</th>
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<td>393</td>
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<td>59,389</td>
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<td>424</td>
<td>560</td>
<td>52,335</td>
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<tr>
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<td>9,667</td>
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<td>69,771</td>
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<td>2,059</td>
<td>75</td>
<td>89</td>
<td>22,800</td>
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<td>3,836</td>
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<td>265</td>
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<td>36,637</td>
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<td>28,261</td>
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<tr>
<td>Bhutan</td>
<td>1,777</td>
<td>69,572</td>
<td>84,626</td>
<td>5,653</td>
<td>5,377</td>
<td>873,398</td>
</tr>
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</table>

Note:  
$^1$ Cumulative figures, collected from Annual Household Survey  
$^2$ Oral pills = 1 user is equal to 12 cycles or 13 cycles  
$^3$ DMPA = 1 user is equal to 4 injections  
Table 2.15: Number of Malaria Cases by Type and Deaths, Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Details</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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<tr>
<td>Plasmodium vivax</td>
<td>31</td>
<td>28</td>
<td>21</td>
<td>16</td>
<td>11</td>
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<tr>
<td>Plasmodium falciparum</td>
<td>13</td>
<td>15</td>
<td>13</td>
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<td>0</td>
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<tr>
<td>Mixed infections</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>Deaths due to malaria</td>
<td>0</td>
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Table 2.16: Number of Tuberculosis Cases by Type, Bhutan, 2017

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<th>PBC</th>
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<tr>
<td></td>
<td>New</td>
<td>Relapse</td>
</tr>
<tr>
<td></td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>Samtse</td>
<td>11</td>
<td>7</td>
</tr>
<tr>
<td>MRRH</td>
<td>9</td>
<td>7</td>
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<tr>
<td>Sibsoo</td>
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<td>1</td>
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<td>Trongsa</td>
<td>6</td>
<td>4</td>
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<td>Lhuntse</td>
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<tr>
<td>Deothang</td>
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<td>2</td>
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<td>Riserboo</td>
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<tr>
<td>Paro</td>
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<td>7</td>
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<td>Panbang</td>
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<tr>
<td>JDWRNRH</td>
<td>53</td>
<td>57</td>
</tr>
<tr>
<td>Phuentsholing</td>
<td>34</td>
<td>26</td>
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<tr>
<td>Tsimalakha</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Sarpang</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Dagapela</td>
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<td>0</td>
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<tr>
<td>Nganglam</td>
<td>5</td>
<td>4</td>
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<tr>
<td>Trashigang</td>
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<td>6</td>
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<td>Samdrup Jongkhar</td>
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<td>7</td>
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<tr>
<td>Bali</td>
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<td>4</td>
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<tr>
<td>Lungtenphu</td>
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<td>7</td>
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<td>3</td>
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<td>Gomtu</td>
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<td>3</td>
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<tr>
<td>Damphu</td>
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<td>Bajo</td>
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<td>Tashiyangtse</td>
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<td>2</td>
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<td>Gelephu</td>
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<td>18</td>
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<tr>
<td>Gasa</td>
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### Table 2.16: Number of Tuberculosis Cases by Type, Bhutan, 2017

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<th>PCD</th>
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<td>F</td>
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**Total**: 881

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<tr>
<th>Dzongkhag</th>
<th>Latrine</th>
<th>Household with Functional Piped water</th>
<th>Drainage</th>
<th>Household with Animal Shed</th>
<th>Household with Vegetable Garden</th>
<th>Household with Garbage Pit</th>
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<tr>
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<td>99.6</td>
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<td>75.1</td>
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<td>97.5</td>
<td>96.1</td>
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<td>77.0</td>
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<td>69.4</td>
<td>86.7</td>
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<td>88.0</td>
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<td>71.7</td>
<td>48.5</td>
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</table>

The comprehensive modern education system in Bhutan was introduced with the initiation of economic development plans in 1961. The monastic form of education however existed and continues even today. There are now extensive network of schools and other educational institutions spread throughout the country.

The school-based education structure in Bhutan comprises of 11 years of free basic education from classes PP to X, divided into 7 years of primary education (PP-VI), which starts at the age of 6, and 4 years of secondary education (VII-X). Beyond the 10th standard students either continue their general education in classes XI and XII in higher secondary schools or join the vocational training institutes or enter the labour market. After completing class XII, graduates either continue their studies at the tertiary level under one of the institutes under the Royal University of Bhutan (RUB) for diploma or bachelor’s degree, or enter the job market.

The medium of instructions in the schools are Dzongkha (national language) and English. School curricula also include training in traditional arts, crafts, and agriculture. Besides the modern education system, there are large numbers of traditional institutions offering education to children in Monasteries, Drupdras and Shedras. The Ministry of Education has only recently started collecting information for the Shedras, collection of information on private Monasteries and Drupdras has not yet been undertaken.

Non-Formal Education (NFE), which is meant for those individuals who are unable to avail the facilities of the formal education, was first established formally in 1992. Basic literacy skills, reading, writing and numeric skills are likewise strengthened through this system. The Ministry of Education maintains an extensive range of statistics on students, schools and teaching personnel.

Many schools provide boarding facilities for students living in areas far from the school with meals provided through the support of World Food Programme (WFP). The WFP also supports mid-day meals for day scholars who come from distant communities.
Table 3.1: Key Education Indicators by Year, (2013-2017)

<table>
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<tr>
<th>Indicators</th>
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<th>2015</th>
<th>2016</th>
<th>2017</th>
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<td>Gross Enrolment Ratio (GER) Tertiary within Bhutan</td>
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<td>Transition rate (Middle Secondary to higher Secondary)</td>
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*Source: Annual Education Statistics, MoE*
Table 3.2: Number of Schools, Institutes & Centres, Bhutan 2017

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<tr>
<td>Non-Formal Centres</td>
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Note:  
1. Private ECCD includes ECCD under NGO, Private & Work place.  
2. Central Schools already counted under School Education.  
3. Includes Muenselling and Wangsel Institutes, 12 general schools, and two Draktsho centers.  
4. Data on private monastic schools not available.  

Source: Annual Education Statistics, MoE.
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Note: ¹ Bhutanese Student studying abroad in class PP-XII based on BLSS 2012.
² Central School students already included under general schools.
³ All special needs children enrolled in Muenselling and Wangsel Institutes, 12 general schools, and two Draktsho centers.
Source: Annual Education Statistics, MoE.
Table 3.4: Summary of Teachers, Lecturers, Instructors, Trainers and Facilitators, Bhutan 2017

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Note: ¹ Also includes all teachers who teach special needs children in 12 general schools
Source: Annual Education Statistics, MoE.
Table 3.5: Number of Schools by Type and Dzongkhag, Bhutan, 2017

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*Source: Annual Education Statistics, MoE.*
### Table 3.6: Enrolment in Institutions and at Tertiary level, Bhutan (2013-2017)

(Numbers)

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<td>...</td>
<td>92</td>
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<td>...</td>
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<td>1,311</td>
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<tr>
<td>TTI-Chumey</td>
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<td>151</td>
<td>163</td>
<td>163</td>
<td>177</td>
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<td>TTI Khuruthang</td>
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<td>353</td>
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<td>285</td>
<td>319</td>
<td>308</td>
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<tr>
<td>Zorig Chusum, Trashiyangtse</td>
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<td>175</td>
<td>164</td>
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*Source: Annual Education Statistics 2017, MoE and RUB.*
### Table 3.7: Comparative Enrolment by Grade and Schools, (2016-2017)

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<th>Class</th>
<th>Private Schools</th>
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<th>Primary School</th>
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<tr>
<td></td>
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<td>2017</td>
<td>+ or -</td>
</tr>
<tr>
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<td>1,088</td>
<td>973</td>
<td>(115)</td>
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<tr>
<td>I</td>
<td>865</td>
<td>765</td>
<td>(100)</td>
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<tr>
<td>II</td>
<td>649</td>
<td>643</td>
<td>(6)</td>
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<tr>
<td>III</td>
<td>452</td>
<td>533</td>
<td>81</td>
</tr>
<tr>
<td>IV</td>
<td>316</td>
<td>346</td>
<td>30</td>
</tr>
<tr>
<td>V</td>
<td>317</td>
<td>295</td>
<td>(22)</td>
</tr>
<tr>
<td>VI</td>
<td>278</td>
<td>302</td>
<td>24</td>
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<tr>
<td>Sub Total</td>
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<td>3,857</td>
<td>(108)</td>
</tr>
<tr>
<td>VII</td>
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<td>118</td>
<td>(30)</td>
</tr>
<tr>
<td>VIII</td>
<td>139</td>
<td>160</td>
<td>21</td>
</tr>
<tr>
<td>Sub Total</td>
<td>287</td>
<td>278</td>
<td>(9)</td>
</tr>
<tr>
<td>IX</td>
<td>160</td>
<td>165</td>
<td>5</td>
</tr>
<tr>
<td>X</td>
<td>202</td>
<td>233</td>
<td>31</td>
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<td>398</td>
<td>36</td>
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<td>2,940</td>
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<tr>
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<td>4,465</td>
<td>140</td>
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<td>7,405</td>
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<td>11,938</td>
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*Source: Annual Education Statistics 2017, MoE*
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<thead>
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<th>Grade</th>
<th>Lower &amp; Middle Secondary</th>
<th>Higher Secondary Schools</th>
<th>Total</th>
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<td>2017</td>
<td>+ or -</td>
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<td>5,769</td>
<td>571</td>
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<tr>
<td>-12.9</td>
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<td>6,382</td>
<td>(383)</td>
</tr>
<tr>
<td>-16.3</td>
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<td>6,728</td>
<td>(435)</td>
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<td>6,992</td>
<td>(265)</td>
</tr>
<tr>
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<td>43,013</td>
<td>255</td>
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<td>12,212</td>
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<td>11,296</td>
<td>11,229</td>
<td>(67)</td>
</tr>
<tr>
<td>...</td>
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<td>23,441</td>
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Source: Annual Education Statistics 2017, MoE
Table 3.8: Number of Students by Grade, Bhutan (2013-2017)  

<table>
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<tr>
<th>Grade</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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<td>13,390</td>
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<td>13,516</td>
<td>12,615</td>
<td>13,304</td>
<td>13,696</td>
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<td>15,102</td>
<td>13,148</td>
<td>12,150</td>
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<td>16,192</td>
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<td>13,312</td>
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<tr>
<td>V</td>
<td>15,506</td>
<td>16,015</td>
<td>15,669</td>
<td>15,071</td>
<td>13,602</td>
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<td>14,588</td>
<td>14,567</td>
<td>14,408</td>
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<td>15,392</td>
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<td><strong>Middle Secondary grade</strong></td>
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<td>24,400</td>
<td>24,686</td>
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<td>25,682</td>
</tr>
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<td>10,765</td>
<td>11,857</td>
<td>11,339</td>
<td>11,993</td>
<td>12,058</td>
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<tr>
<td><strong>Higher Secondary school</strong></td>
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<td>17,397</td>
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<td>18,171</td>
<td>18,930</td>
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<td>9,279</td>
<td>9,736</td>
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<td>172,393</td>
<td>171,402</td>
<td>169,560</td>
<td>168,092</td>
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</table>

*Source: Annual Education Statistics, MoE.*
The economy of Bhutan is characterized by the predominance of people engaged in self-employment, particularly those working on their own land. There is also a good deal of small cottage industry often undertaken in the home. The number of person working for wages is relatively small.

Statistics on human resources are designed to measure the involvement of people in economic activities. Economic activities refer to the production of economic goods and services and include people who are self-employed (e.g. farmers operating their own land) as well as persons who work for wages (i.e. employees). Broadly, a statistical system for human resources should cover topics such as size and characteristics of the labour force, employment, wage rate and conditions of work.

The National Statistics Bureau (NSB) conducted two consecutive Labour Force Surveys in 1998 and 2000. At present the Labour Market Information and Research Division (LMIRD) of the Department of Employment (DoE) under the Ministry of Labour and Human Resources (MoLHR) is conducting the Labour Force Surveys. Labour statistics presented in this chapter are mostly from Labour Force Survey (LFS) Report 2016 and Civil Service Statistics, December 2017, published by the Royal Civil Service Commission (RCSC).

![Unemployment Rates (2012 - 2016)](image-url)
Table 4.1: Civil Servants by Position Category and Employment Type, Bhutan, (2013-2017)

<table>
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<td>Contract</td>
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<tr>
<td>ES2</td>
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<td>1</td>
</tr>
<tr>
<td>ES3</td>
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<td>1</td>
</tr>
<tr>
<td>Total</td>
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<td>2</td>
</tr>
<tr>
<td><strong>Professional &amp; Management Position Category</strong></td>
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<tr>
<td>P1</td>
<td>413</td>
<td>7</td>
</tr>
<tr>
<td>P2</td>
<td>976</td>
<td>12</td>
</tr>
<tr>
<td>P3</td>
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<tr>
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</tr>
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<td><strong>Grand Total</strong></td>
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Note: ¹ Eminent members of the Parliament and Attorney General.
Source: Civil Service Statistics, December 2017, RCSC.
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<td>2</td>
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<td>3</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>ES2</td>
<td>11</td>
<td>1</td>
<td>12</td>
<td>2</td>
<td>3</td>
</tr>
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<td>ES3</td>
<td>73</td>
<td>1</td>
<td>74</td>
<td>1</td>
<td>72</td>
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<td>540</td>
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Note: 1 Eminent members of the Parliament and Attorney General.

Source: Civil Service Statistics, December 2017, RCSC.
Table 4.2: Civil Servants by Working Agency and Employment Type, Bhutan, 2017

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<td>697</td>
<td>61</td>
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<tr>
<td>Pemagatsel</td>
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<td>127</td>
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<tr>
<td>Punakha</td>
<td>677</td>
<td>29</td>
</tr>
<tr>
<td>Lhuentse</td>
<td>539</td>
<td>132</td>
</tr>
<tr>
<td>Bumthang</td>
<td>518</td>
<td>99</td>
</tr>
<tr>
<td>Trongsa</td>
<td>543</td>
<td>60</td>
</tr>
<tr>
<td>Thimphu</td>
<td>441</td>
<td>83</td>
</tr>
<tr>
<td>Haa</td>
<td>462</td>
<td>47</td>
</tr>
<tr>
<td>Gasa</td>
<td>408</td>
<td>67</td>
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<tr>
<td>Thromde</td>
<td>408</td>
<td>38</td>
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<tr>
<td>Phuentsholing</td>
<td>339</td>
<td>50</td>
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<tr>
<td>Lhuentse</td>
<td>162</td>
<td>20</td>
</tr>
<tr>
<td>Thimphu</td>
<td>1,177</td>
<td>22</td>
</tr>
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<td>Thimphu</td>
<td>285</td>
<td>10</td>
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**Table 4.2 cont...**

<table>
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<tr>
<th>Working Agency</th>
<th>Bhutanese</th>
<th>Non-Bhutanese</th>
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<td>Gelephu</td>
<td>208</td>
<td></td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>141</td>
<td></td>
</tr>
<tr>
<td><strong>Non-civil service agency</strong></td>
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<td></td>
</tr>
<tr>
<td>Defence1</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Non Governmental Organizations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Corporations</td>
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<td></td>
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<tr>
<td>International Organizations</td>
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<tr>
<td>Government Agency Outside Civil Service</td>
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<tr>
<td><strong>Total</strong></td>
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*Note: ¹Finance and Accounts staff placed in RBG/RBA/RBP
Source: Civil Service Statistics, December 2017, RCSC.*
<table>
<thead>
<tr>
<th>Total</th>
<th>Bhutanese</th>
<th>Non-Bhutanese</th>
<th>Total</th>
<th>Grand Total</th>
<th>% Against Grand Total</th>
</tr>
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<tbody>
<tr>
<td>208</td>
<td>8</td>
<td>5</td>
<td>13</td>
<td>221</td>
<td>0.79%</td>
</tr>
<tr>
<td>141</td>
<td>6</td>
<td>3</td>
<td>9</td>
<td>150</td>
<td>0.53%</td>
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<tr>
<td>9</td>
<td>9</td>
<td></td>
<td>9</td>
<td>9</td>
<td>0.03%</td>
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<tr>
<td>3</td>
<td></td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>0.01%</td>
</tr>
<tr>
<td>2</td>
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<td>2</td>
<td>2</td>
<td>0.01%</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0.00%</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>0.00%</td>
</tr>
<tr>
<td>25,570</td>
<td>2,318</td>
<td>182</td>
<td>2,500</td>
<td>28,070</td>
<td>100.00%</td>
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</table>

Note: 1Finance and Accounts staff placed in RBG/RBA/RBP
Source: Civil Service Statistics, December 2017, RCSC.
Table 4.3: Civil Servants by Position Level and Sex, Bhutan, 2017

<table>
<thead>
<tr>
<th>Position Category</th>
<th>Regular</th>
<th>Bhutanese</th>
<th>Non-Bhutanese</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td><strong>Executive Position Category</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>No Level ¹</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EX1</td>
<td></td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>EX2</td>
<td></td>
<td>55</td>
<td>3</td>
</tr>
<tr>
<td>EX3</td>
<td></td>
<td>58</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>140</td>
<td>14</td>
</tr>
<tr>
<td><strong>Specialist Position Category</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ES1</td>
<td></td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>ES2</td>
<td></td>
<td>31</td>
<td>5</td>
</tr>
<tr>
<td>ES3</td>
<td></td>
<td>60</td>
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</tr>
<tr>
<td>Total</td>
<td></td>
<td>95</td>
<td>18</td>
</tr>
<tr>
<td><strong>Professional &amp; Management Category</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P1</td>
<td></td>
<td>700</td>
<td>244</td>
</tr>
<tr>
<td>P2</td>
<td></td>
<td>1,208</td>
<td>512</td>
</tr>
<tr>
<td>P3</td>
<td></td>
<td>1,967</td>
<td>1,235</td>
</tr>
<tr>
<td>P4</td>
<td></td>
<td>2,424</td>
<td>1,429</td>
</tr>
<tr>
<td>P5</td>
<td></td>
<td>1,538</td>
<td>1,079</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>7,837</td>
<td>4,499</td>
</tr>
<tr>
<td><strong>Supervisory &amp; Support Position Category</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS1</td>
<td></td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>SS2</td>
<td></td>
<td>184</td>
<td>88</td>
</tr>
<tr>
<td>SS3</td>
<td></td>
<td>667</td>
<td>190</td>
</tr>
<tr>
<td>SS4</td>
<td></td>
<td>923</td>
<td>431</td>
</tr>
<tr>
<td>S1</td>
<td></td>
<td>1,583</td>
<td>976</td>
</tr>
<tr>
<td>S2</td>
<td></td>
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<td>819</td>
</tr>
<tr>
<td>S3</td>
<td></td>
<td>1,099</td>
<td>843</td>
</tr>
<tr>
<td>S4</td>
<td></td>
<td>728</td>
<td>758</td>
</tr>
<tr>
<td>S5</td>
<td></td>
<td>360</td>
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<tr>
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<td>6,797</td>
<td>4,426</td>
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<tr>
<td><strong>Operational Position Category</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td>709</td>
<td>137</td>
</tr>
<tr>
<td>O2</td>
<td></td>
<td>219</td>
<td>67</td>
</tr>
<tr>
<td>O3</td>
<td></td>
<td>363</td>
<td>56</td>
</tr>
<tr>
<td>O4</td>
<td></td>
<td>174</td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>1,465</td>
<td>272</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td></td>
<td>16,334</td>
<td>9,229</td>
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</table>

*Note: ¹ Eminent members of the Parliament & Attorney General are summed up with Executive Position Category.
Source: Civil Service Statistics, December 2017, RCSC.*
<table>
<thead>
<tr>
<th>Position Category</th>
<th>Total Regular</th>
<th>Total Contract</th>
<th>Total</th>
<th>Total Male</th>
<th>Total Female</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhutanese Male</td>
<td>3 0 0 0 0</td>
<td>0</td>
<td>0 0</td>
<td>0</td>
<td>0</td>
<td>0 2 1 3</td>
</tr>
<tr>
<td>Bhutanese Female</td>
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<td>0</td>
<td>0 0</td>
<td>0</td>
<td>0</td>
<td>0 25 0 25</td>
</tr>
<tr>
<td>Non-Bhutanese Male</td>
<td>58 1 0 0 0</td>
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<td>0 0</td>
<td>0</td>
<td>1</td>
<td>0 56 3 59</td>
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<tr>
<td>Non-Bhutanese Female</td>
<td>68 4 0 0 0</td>
<td>4</td>
<td>0 0</td>
<td>0</td>
<td>4</td>
<td>0 62 10 72</td>
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<tr>
<td>Total</td>
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<td>5</td>
<td>0 0</td>
<td>0</td>
<td>5</td>
<td>0 145 14 159</td>
</tr>
<tr>
<td>Bhutanese Male</td>
<td>5 1 0 1 0</td>
<td>0</td>
<td>1 0</td>
<td>1</td>
<td>1</td>
<td>0 5 1 6</td>
</tr>
<tr>
<td>Bhutanese Female</td>
<td>36 1 0 1 0</td>
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<td>0 0</td>
<td>0</td>
<td>1</td>
<td>0 32 5 37</td>
</tr>
<tr>
<td>Non-Bhutanese Male</td>
<td>72 1 0 1 0</td>
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<td>0 0</td>
<td>1</td>
<td>1</td>
<td>0 61 12 73</td>
</tr>
<tr>
<td>Non-Bhutanese Female</td>
<td>113 3 0 3 0</td>
<td>3</td>
<td>0 0</td>
<td>0</td>
<td>3</td>
<td>0 98 18 116</td>
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<tr>
<td>Total</td>
<td>944 11 1 12 5</td>
<td>5</td>
<td>1 6</td>
<td>18</td>
<td>716</td>
<td>0 246 962</td>
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<td>Bhutanese Male</td>
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<td>10</td>
<td>8 18</td>
<td>29</td>
<td>1,227</td>
<td>0 522 1,749</td>
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<tr>
<td>Bhutanese Female</td>
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<td>50</td>
<td>13 63</td>
<td>74</td>
<td>2,024</td>
<td>0 1,252 3,276</td>
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<tr>
<td>Non-Bhutanese Male</td>
<td>3,853 24 29 53 40</td>
<td>53</td>
<td>23 63</td>
<td>116</td>
<td>2,488</td>
<td>0 1,481 3,969</td>
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<tr>
<td>Non-Bhutanese Female</td>
<td>2,617 441 358 799 9 13 22</td>
<td>799</td>
<td>9 13 22</td>
<td>821</td>
<td>1,988</td>
<td>0 1,450 3,438</td>
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<tr>
<td>Total</td>
<td>12,336 492 394 886 114 58 172</td>
<td>886</td>
<td>58 172</td>
<td>1,058</td>
<td>8,443</td>
<td>0 4,951 13,394</td>
</tr>
<tr>
<td>Bhutanese Male</td>
<td>26 0 0 0 0</td>
<td>0</td>
<td>0 0</td>
<td>0</td>
<td>0</td>
<td>0 15 11 26</td>
</tr>
<tr>
<td>Bhutanese Female</td>
<td>272 2 0 2 0</td>
<td>2</td>
<td>0 0</td>
<td>0</td>
<td>2</td>
<td>0 186 48 274</td>
</tr>
<tr>
<td>Non-Bhutanese Male</td>
<td>858 0 0 0 0</td>
<td>0</td>
<td>0 0</td>
<td>0</td>
<td>0</td>
<td>0 667 191 858</td>
</tr>
<tr>
<td>Non-Bhutanese Female</td>
<td>1,355 11 3 14 0 1 1</td>
<td>1</td>
<td>1 15 5 935</td>
<td>435 1,370</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
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<td>40</td>
<td>3 44 4 1,613</td>
<td>992 2,605</td>
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</tr>
<tr>
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<td>44</td>
<td>0 0 44 1,267</td>
<td>834 2,101</td>
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<td></td>
</tr>
<tr>
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<td>1</td>
<td>1 12 1,107</td>
<td>848 1,955</td>
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<td></td>
</tr>
<tr>
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<td>1,488 25 6 31 0 1 1</td>
<td>3</td>
<td>1 32 1,075</td>
<td>765 1,520</td>
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<td></td>
</tr>
<tr>
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<td>670 396 394 790 0 0 0</td>
<td>0</td>
<td>0 0 790 756</td>
<td>704 1,460</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
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<td>932</td>
<td>2 5 7 939</td>
<td>7,301</td>
<td>0 4,868 12,169</td>
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</tr>
<tr>
<td>Bhutanese Male</td>
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<td>1</td>
<td>1 5 714 137</td>
<td>851</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bhutanese Female</td>
<td>286 49 80 129 0 0 0</td>
<td>0</td>
<td>0 0 129 268</td>
<td>147 415</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Bhutanese Male</td>
<td>419 2 0 2 0 0 0</td>
<td>2</td>
<td>0 2 365 56 421</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Bhutanese Female</td>
<td>186 335 0 357 2 0 2</td>
<td>2</td>
<td>0 2 359 511</td>
<td>34 545</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1,737 390 80 492 3 0 3</td>
<td>492</td>
<td>3 0 3 495</td>
<td>1,858 374 2,232</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Total</td>
<td>25,570 1,388 908 2,318 119 63 182</td>
<td>119</td>
<td>63 182 2,500</td>
<td>17,845 10,225</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: 1 Eminent members of the Parliament & Attorney General are summed up with Executive Position Category.

Source: Civil Service Statistics, December 2017, RCSC.
Table 4.4: Percentage Distribution of Economically Active Population by Dzongkhag and Sex, Bhutan, 2016

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bumthang</td>
<td>51.7</td>
<td>48.3</td>
<td>100.0</td>
</tr>
<tr>
<td>Chhukha</td>
<td>63.8</td>
<td>36.2</td>
<td>100.0</td>
</tr>
<tr>
<td>Dagana</td>
<td>49.6</td>
<td>50.4</td>
<td>100.0</td>
</tr>
<tr>
<td>Gasas</td>
<td>51.9</td>
<td>48.0</td>
<td>99.9</td>
</tr>
<tr>
<td>Haas</td>
<td>57.6</td>
<td>42.4</td>
<td>100.0</td>
</tr>
<tr>
<td>Lhuntse</td>
<td>49.9</td>
<td>50.1</td>
<td>100.0</td>
</tr>
<tr>
<td>Monggar</td>
<td>51.1</td>
<td>48.9</td>
<td>100.0</td>
</tr>
<tr>
<td>Paro</td>
<td>64.0</td>
<td>36.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Pema Gatshel</td>
<td>49.7</td>
<td>50.3</td>
<td>100.0</td>
</tr>
<tr>
<td>Punakha</td>
<td>50.5</td>
<td>49.5</td>
<td>100.0</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>55.9</td>
<td>44.1</td>
<td>100.0</td>
</tr>
<tr>
<td>Samtses</td>
<td>54.8</td>
<td>45.2</td>
<td>100.0</td>
</tr>
<tr>
<td>Sarpang</td>
<td>57.5</td>
<td>42.5</td>
<td>100.0</td>
</tr>
<tr>
<td>Thimphu</td>
<td>60.2</td>
<td>39.8</td>
<td>100.0</td>
</tr>
<tr>
<td>Trashigang</td>
<td>54.0</td>
<td>46.0</td>
<td>100.0</td>
</tr>
<tr>
<td>Trashi Yangtse</td>
<td>52.7</td>
<td>47.3</td>
<td>100.0</td>
</tr>
<tr>
<td>Trongsa</td>
<td>48.6</td>
<td>51.4</td>
<td>100.0</td>
</tr>
<tr>
<td>Tsimang</td>
<td>56.2</td>
<td>43.8</td>
<td>100.0</td>
</tr>
<tr>
<td>Wangdue Phodrang</td>
<td>43.2</td>
<td>56.8</td>
<td>100.0</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>49.2</td>
<td>50.8</td>
<td>100.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>54.9</strong></td>
<td><strong>45.1</strong></td>
<td><strong>100.0</strong></td>
</tr>
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</table>

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.5: Percentage Distribution of Employed Persons by Major Occupation and Sex, Bhutan, 2016

<table>
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<tr>
<th>Major Occupation</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legislators, Senior Officials &amp; Managers</td>
<td>2.3</td>
<td>0.8</td>
<td>3.1</td>
</tr>
<tr>
<td>Professionals</td>
<td>4.5</td>
<td>2.3</td>
<td>6.8</td>
</tr>
<tr>
<td>Technicians &amp; Associate Professionals</td>
<td>2.5</td>
<td>1.1</td>
<td>3.6</td>
</tr>
<tr>
<td>Clerical Support Workers</td>
<td>0.9</td>
<td>0.9</td>
<td>1.8</td>
</tr>
<tr>
<td>Services and Sales workers</td>
<td>5.9</td>
<td>6.2</td>
<td>12.1</td>
</tr>
<tr>
<td>Skilled Agricultural &amp; Forestry workers</td>
<td>26.7</td>
<td>30.4</td>
<td>57.1</td>
</tr>
<tr>
<td>Craft &amp; Related Trade Workers</td>
<td>3.1</td>
<td>2.1</td>
<td>5.2</td>
</tr>
<tr>
<td>Plant &amp; Machine Operators and Assemblers</td>
<td>4.2</td>
<td>0.1</td>
<td>4.3</td>
</tr>
<tr>
<td>Elementary Occupations</td>
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<td>1.0</td>
<td>2.2</td>
</tr>
<tr>
<td>Armed Forces</td>
<td>3.6</td>
<td>0.2</td>
<td>3.8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>54.9</strong></td>
<td><strong>45.1</strong></td>
<td><strong>100.0</strong></td>
</tr>
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</table>

Source: Labour Force Survey Report 2016, MoLHR.
Table 4.6: Percentage Distribution of Employed Persons by Nature of Employment and Sex, Bhutan, 2016

<table>
<thead>
<tr>
<th>Nature of Employment</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular paid employee</td>
<td>17.4</td>
<td>6.6</td>
<td>24.0</td>
</tr>
<tr>
<td>Casual paid employee</td>
<td>1.4</td>
<td>0.3</td>
<td>1.7</td>
</tr>
<tr>
<td>Contract/Piece paid worker</td>
<td>1.5</td>
<td>0.2</td>
<td>1.7</td>
</tr>
<tr>
<td>Own-account worker (Non agriculture)</td>
<td>7.2</td>
<td>6.0</td>
<td>13.2</td>
</tr>
<tr>
<td>Own-account worker (Agriculture)</td>
<td>16.3</td>
<td>10.2</td>
<td>26.5</td>
</tr>
<tr>
<td>Family worker (Non-agriculture)</td>
<td>0.9</td>
<td>1.6</td>
<td>2.5</td>
</tr>
<tr>
<td>Family worker (Agriculture)</td>
<td>10.3</td>
<td>20.1</td>
<td>30.4</td>
</tr>
<tr>
<td>Employer</td>
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<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Don’t know</td>
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<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>55.0</strong></td>
<td><strong>45.0</strong></td>
<td><strong>100.0</strong></td>
</tr>
</tbody>
</table>

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.7: Percentage Distribution of Labour Force Participation, Employment Status by Age Group and Sex, Bhutan, 2016

<table>
<thead>
<tr>
<th>Age</th>
<th>Labour Force participation rate</th>
<th>Unemployment rate</th>
<th>Employment rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Total</td>
</tr>
<tr>
<td>15-19</td>
<td>3.3</td>
<td>7.0</td>
<td>5.3</td>
</tr>
<tr>
<td>20-24</td>
<td>55.2</td>
<td>55.0</td>
<td>55.1</td>
</tr>
<tr>
<td>25-29</td>
<td>89.6</td>
<td>66.2</td>
<td>76.9</td>
</tr>
<tr>
<td>30-34</td>
<td>94.8</td>
<td>69.6</td>
<td>81.5</td>
</tr>
<tr>
<td>35-39</td>
<td>96.2</td>
<td>69.8</td>
<td>82.1</td>
</tr>
<tr>
<td>40-44</td>
<td>98.2</td>
<td>71.9</td>
<td>84.3</td>
</tr>
<tr>
<td>45-49</td>
<td>97.2</td>
<td>73.4</td>
<td>85.6</td>
</tr>
<tr>
<td>50-54</td>
<td>90.4</td>
<td>71.9</td>
<td>80.7</td>
</tr>
<tr>
<td>55-59</td>
<td>84.7</td>
<td>62.6</td>
<td>74.5</td>
</tr>
<tr>
<td>60-64</td>
<td>75.1</td>
<td>50.7</td>
<td>63.9</td>
</tr>
<tr>
<td>65+</td>
<td>37.4</td>
<td>14.2</td>
<td>25.8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>71.7</strong></td>
<td><strong>55.9</strong></td>
<td><strong>62.2</strong></td>
</tr>
</tbody>
</table>

Source: Labour Force Survey Report 2016, MoLHR.
Table 4.8: Number of Persons Employed by Age Group, Type of Enterprise & Sex, Bhutan, 2016

<table>
<thead>
<tr>
<th>Age</th>
<th>Civil Service</th>
<th>Other Government Agencies</th>
<th>Public/Government Companies</th>
<th>Private Companies</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>15-19</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>20-24</td>
<td>296</td>
<td>749</td>
<td>80</td>
<td>308</td>
</tr>
<tr>
<td>25-29</td>
<td>3,358</td>
<td>3,174</td>
<td>1,424</td>
<td>910</td>
</tr>
<tr>
<td>30-34</td>
<td>2,602</td>
<td>2,907</td>
<td>2,217</td>
<td>356</td>
</tr>
<tr>
<td>35-39</td>
<td>2,074</td>
<td>1,258</td>
<td>1,751</td>
<td>196</td>
</tr>
<tr>
<td>40-44</td>
<td>1,586</td>
<td>608</td>
<td>1,929</td>
<td>422</td>
</tr>
<tr>
<td>45-49</td>
<td>1,230</td>
<td>457</td>
<td>1,596</td>
<td>171</td>
</tr>
<tr>
<td>50-54</td>
<td>667</td>
<td>186</td>
<td>740</td>
<td>20</td>
</tr>
<tr>
<td>55-59</td>
<td>231</td>
<td>230</td>
<td>442</td>
<td>0</td>
</tr>
<tr>
<td>60-64</td>
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<td>144</td>
<td>0</td>
</tr>
<tr>
<td>65+</td>
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<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>12,129</td>
<td>9,569</td>
<td>10,329</td>
<td>2,387</td>
</tr>
</tbody>
</table>

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.9: Total Employed Persons by Age Group and Level of Education, Bhutan, 2016

<table>
<thead>
<tr>
<th>Age</th>
<th>No formal education</th>
<th>Nursery</th>
<th>Primary</th>
<th>Lower Secondary</th>
<th>Middle Secondary</th>
<th>Higher Secondary</th>
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</thead>
<tbody>
<tr>
<td>15-19</td>
<td>1,393</td>
<td></td>
<td>450</td>
<td>516</td>
<td>402</td>
<td>195</td>
</tr>
<tr>
<td>20-24</td>
<td>7,282</td>
<td></td>
<td>2,725</td>
<td>3,300</td>
<td>5,458</td>
<td>6,673</td>
</tr>
<tr>
<td>25-29</td>
<td>14,668</td>
<td></td>
<td>5,082</td>
<td>3,571</td>
<td>7,402</td>
<td>10,354</td>
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<tr>
<td>30-34</td>
<td>21,766</td>
<td></td>
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<td>3,765</td>
<td>6,575</td>
<td>6,106</td>
</tr>
<tr>
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<td>26,625</td>
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<td>5,435</td>
<td>3,408</td>
<td>5,392</td>
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</tr>
<tr>
<td>40-44</td>
<td>27,212</td>
<td></td>
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<td>1,480</td>
<td>1,735</td>
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<tr>
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<td></td>
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<td>1,820</td>
<td>1,490</td>
<td>612</td>
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<tr>
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<td>23,670</td>
<td></td>
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<td>841</td>
<td>883</td>
<td>580</td>
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<tr>
<td>55-59</td>
<td>17,423</td>
<td></td>
<td>1,339</td>
<td>634</td>
<td>729</td>
<td>163</td>
</tr>
<tr>
<td>60-64</td>
<td>16,207</td>
<td></td>
<td>688</td>
<td>282</td>
<td>177</td>
<td>79</td>
</tr>
<tr>
<td>65+</td>
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<td>232</td>
<td>231</td>
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<tr>
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<td>32,135</td>
<td>19,848</td>
<td>30,317</td>
<td>28,150</td>
<td></td>
</tr>
</tbody>
</table>

Source: Labour Force Survey Report 2016, MoLHR.
Table 4.8: Number of Persons Employed by Age Group, Type of Enterprise & Sex, Bhutan, 2016

<table>
<thead>
<tr>
<th>Age</th>
<th>Civil Service</th>
<th>Other Government Agencies</th>
<th>Public/Other Government Companies</th>
<th>Private Companies</th>
<th>Armed Forces</th>
<th>NGO/INGO</th>
<th>Total</th>
<th>Grand total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
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<td>Male</td>
<td>Female</td>
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<td>80</td>
<td>308</td>
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<td>1,154</td>
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<td>363</td>
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<td>1,760</td>
<td>950</td>
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<td>1,751</td>
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<td>378</td>
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<tr>
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<td>608</td>
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<td>422</td>
<td>1,408</td>
<td>297</td>
<td>1,151</td>
<td>30</td>
</tr>
<tr>
<td>45-49</td>
<td>1,230</td>
<td>457</td>
<td>1,596</td>
<td>171</td>
<td>1,445</td>
<td>10</td>
<td>986</td>
<td>63</td>
</tr>
<tr>
<td>50-54</td>
<td>667</td>
<td>186</td>
<td>740</td>
<td>20</td>
<td>751</td>
<td>3</td>
<td>676</td>
<td>31</td>
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<tr>
<td>55-59</td>
<td>231</td>
<td>230</td>
<td>442</td>
<td>0</td>
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<td>0</td>
<td>554</td>
<td>0</td>
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<tr>
<td>60-64</td>
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<td>275</td>
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<tr>
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<td>4</td>
<td>0</td>
<td>0</td>
<td>34</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>12,129</td>
<td>9,569</td>
<td>10,329</td>
<td>2,387</td>
<td>13,571</td>
<td>3,848</td>
<td>9,311</td>
<td>1,872</td>
</tr>
</tbody>
</table>

Source: Labour Force Survey Report 2016, MoLHR.

Table 4.9: Total Employed Persons by Age Group and Level of Education, Bhutan, 2016

<table>
<thead>
<tr>
<th>Age</th>
<th>Level of Education</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No formal education</td>
</tr>
<tr>
<td>15-19</td>
<td>1,393</td>
</tr>
<tr>
<td>20-24</td>
<td>7,282</td>
</tr>
<tr>
<td>25-29</td>
<td>14,668</td>
</tr>
<tr>
<td>30-34</td>
<td>21,766</td>
</tr>
<tr>
<td>35-39</td>
<td>26,625</td>
</tr>
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<td>40-44</td>
<td>27,212</td>
</tr>
<tr>
<td>45-49</td>
<td>28,400</td>
</tr>
<tr>
<td>50-54</td>
<td>23,670</td>
</tr>
<tr>
<td>55-59</td>
<td>17,423</td>
</tr>
<tr>
<td>60-64</td>
<td>16,207</td>
</tr>
<tr>
<td>65+</td>
<td>12,188</td>
</tr>
<tr>
<td>Total</td>
<td>196,834</td>
</tr>
</tbody>
</table>

Source: Labour Force Survey Report 2016, MoLHR.
Table 4.10: Total Employed Persons by Level of Education and Dzongkhag, Bhutan, 2016

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>No formal education</th>
<th>Primary</th>
<th>Lower Secondary</th>
<th>Middle Secondary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bumthang</td>
<td>3,269</td>
<td>640</td>
<td>555</td>
<td>1,003</td>
</tr>
<tr>
<td>Chukha</td>
<td>19,071</td>
<td>3,979</td>
<td>2,165</td>
<td>4,126</td>
</tr>
<tr>
<td>Dagana</td>
<td>8,919</td>
<td>2,256</td>
<td>818</td>
<td>1,674</td>
</tr>
<tr>
<td>Gasa</td>
<td>1,460</td>
<td>113</td>
<td>99</td>
<td>53</td>
</tr>
<tr>
<td>Haa</td>
<td>6,770</td>
<td>508</td>
<td>463</td>
<td>514</td>
</tr>
<tr>
<td>Lhuntse</td>
<td>3,470</td>
<td>531</td>
<td>257</td>
<td>435</td>
</tr>
<tr>
<td>Mongar</td>
<td>12,711</td>
<td>1,686</td>
<td>344</td>
<td>718</td>
</tr>
<tr>
<td>Paro</td>
<td>9,108</td>
<td>562</td>
<td>885</td>
<td>1,918</td>
</tr>
<tr>
<td>Pemagatshel</td>
<td>10,815</td>
<td>911</td>
<td>467</td>
<td>722</td>
</tr>
<tr>
<td>Punakha</td>
<td>11,165</td>
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<td>1,450</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
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<td>907</td>
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<td>1,712</td>
</tr>
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<td>2,618</td>
</tr>
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<td>3,524</td>
<td>3,253</td>
<td>6,395</td>
</tr>
<tr>
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<td>856</td>
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<tr>
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<td>438</td>
<td>356</td>
</tr>
<tr>
<td>Trongsa</td>
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<td>512</td>
<td>232</td>
<td>907</td>
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<td>2,512</td>
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<td>778</td>
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<tr>
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<td>1,906</td>
<td>1,156</td>
<td>1,439</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>8,765</td>
<td>642</td>
<td>261</td>
<td>491</td>
</tr>
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<td><strong>Total</strong></td>
<td><strong>196,833</strong></td>
<td><strong>32,134</strong></td>
<td><strong>19,847</strong></td>
<td><strong>30,318</strong></td>
</tr>
</tbody>
</table>

Source: Labour Force Survey Report 2016, MoLHR.
### Table 4.10: Total Employed Persons by Level of Education and Dzongkhag, Bhutan, 2016

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>Higher Secondary</th>
<th>Bachelors Degree</th>
<th>Masters &amp; Above</th>
<th>NFE</th>
<th>Religious Professionals</th>
<th>Don't know</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bumthang</td>
<td>3,269</td>
<td>640</td>
<td>555</td>
<td>1,003</td>
<td>888</td>
<td>193</td>
<td>7,095</td>
</tr>
<tr>
<td>Chukha</td>
<td>19,071</td>
<td>3,979</td>
<td>2,165</td>
<td>4,126</td>
<td>3,159</td>
<td>1,638</td>
<td>35,202</td>
</tr>
<tr>
<td>Dagana</td>
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<td>1,674</td>
<td>1,191</td>
<td>1,111</td>
<td>16,598</td>
</tr>
<tr>
<td>Gasa</td>
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<td>113</td>
<td>99</td>
<td>53</td>
<td>65</td>
<td>53</td>
<td>2,038</td>
</tr>
<tr>
<td>Haa</td>
<td>6,770</td>
<td>508</td>
<td>463</td>
<td>514</td>
<td>340</td>
<td>564</td>
<td>9,373</td>
</tr>
<tr>
<td>Lhuntse</td>
<td>3,470</td>
<td>531</td>
<td>257</td>
<td>435</td>
<td>373</td>
<td>92</td>
<td>6,817</td>
</tr>
<tr>
<td>Mongar</td>
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<td>1,686</td>
<td>344</td>
<td>718</td>
<td>1,978</td>
<td>337</td>
<td>20,441</td>
</tr>
<tr>
<td>Paro</td>
<td>9,108</td>
<td>562</td>
<td>885</td>
<td>1,918</td>
<td>1,195</td>
<td>1,151</td>
<td>17,652</td>
</tr>
<tr>
<td>Pemagatshel</td>
<td>10,815</td>
<td>911</td>
<td>467</td>
<td>722</td>
<td>597</td>
<td>47</td>
<td>14,373</td>
</tr>
<tr>
<td>Punakha</td>
<td>11,165</td>
<td>1,879</td>
<td>764</td>
<td>1,450</td>
<td>1,078</td>
<td>181</td>
<td>17,652</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>12,831</td>
<td>907</td>
<td>1,024</td>
<td>1,712</td>
<td>1,038</td>
<td>381</td>
<td>18,409</td>
</tr>
<tr>
<td>Samtse</td>
<td>21,704</td>
<td>3,258</td>
<td>2,453</td>
<td>2,153</td>
<td>1,551</td>
<td>687</td>
<td>34,279</td>
</tr>
<tr>
<td>Sarpang</td>
<td>8,874</td>
<td>4,018</td>
<td>2,291</td>
<td>2,618</td>
<td>1,907</td>
<td>618</td>
<td>23,449</td>
</tr>
<tr>
<td>Thimphu</td>
<td>12,447</td>
<td>3,524</td>
<td>3,253</td>
<td>6,395</td>
<td>8,527</td>
<td>7,155</td>
<td>44,436</td>
</tr>
<tr>
<td>Trashigang</td>
<td>10,775</td>
<td>1,362</td>
<td>1,218</td>
<td>856</td>
<td>1,199</td>
<td>237</td>
<td>17,641</td>
</tr>
<tr>
<td>Trongsa</td>
<td>5,718</td>
<td>512</td>
<td>232</td>
<td>907</td>
<td>381</td>
<td>195</td>
<td>9,827</td>
</tr>
<tr>
<td>Tshirang</td>
<td>4,973</td>
<td>2,512</td>
<td>704</td>
<td>778</td>
<td>1,199</td>
<td>237</td>
<td>9,429</td>
</tr>
<tr>
<td>Wangdue</td>
<td>17,803</td>
<td>1,906</td>
<td>1,156</td>
<td>1,439</td>
<td>1,199</td>
<td>237</td>
<td>24,950</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>8,765</td>
<td>642</td>
<td>261</td>
<td>491</td>
<td>1,049</td>
<td>240</td>
<td>10,847</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>28,150</strong></td>
<td><strong>16,636</strong></td>
<td><strong>1,906</strong></td>
<td><strong>14,085</strong></td>
<td><strong>7,218</strong></td>
<td><strong>3</strong></td>
<td><strong>347,130</strong></td>
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</table>

Source: Labour Force Survey Report 2016, MoLHR.
### Table 4.11: Total Employed Persons by Major Economic Activity and Nature of Employment, Bhutan, 2016

<table>
<thead>
<tr>
<th>Major Economic Activity</th>
<th>Regular paid employee</th>
<th>Casual paid employee</th>
<th>Contract/piece paid worker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture and Forestry</td>
<td>323</td>
<td>228</td>
<td>296</td>
</tr>
<tr>
<td>Mining and Quarrying</td>
<td>1,054</td>
<td>21</td>
<td>0</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>8,963</td>
<td>965</td>
<td>589</td>
</tr>
<tr>
<td>Electricity and Gas Supply</td>
<td>4,371</td>
<td>4</td>
<td>91</td>
</tr>
<tr>
<td>Water supply, Swareage, Waste Management</td>
<td>90</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>3,263</td>
<td>998</td>
<td>2,356</td>
</tr>
<tr>
<td>Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles</td>
<td>2,177</td>
<td>308</td>
<td>166</td>
</tr>
<tr>
<td>Transport and Storage</td>
<td>3,362</td>
<td>491</td>
<td>305</td>
</tr>
<tr>
<td>Accommodation and Food Service Activities</td>
<td>4,475</td>
<td>156</td>
<td>7</td>
</tr>
<tr>
<td>Information and Communication</td>
<td>1,860</td>
<td>198</td>
<td>0</td>
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<tr>
<td>Financial and Insurance Activities</td>
<td>3,266</td>
<td>0</td>
<td>49</td>
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<tr>
<td>Real Estate Activities</td>
<td>85</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Professional, Scientific and Technical</td>
<td>449</td>
<td>0</td>
<td>118</td>
</tr>
<tr>
<td>Administrative and Support Service Activities</td>
<td>2,352</td>
<td>850</td>
<td>218</td>
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<tr>
<td>Public Administration &amp; Defense</td>
<td>29,627</td>
<td>574</td>
<td>689</td>
</tr>
<tr>
<td>Education</td>
<td>11,250</td>
<td>107</td>
<td>711</td>
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<tr>
<td>Human Health &amp; Social Work</td>
<td>4,395</td>
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<td>255</td>
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<tr>
<td>Arts, Entertainment and Recreation</td>
<td>755</td>
<td>467</td>
<td>0</td>
</tr>
<tr>
<td>Other Service Activities</td>
<td>574</td>
<td>321</td>
<td>31</td>
</tr>
<tr>
<td>Activities of Household as Employers</td>
<td>459</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Activities of Extraterritorial Organization</td>
<td>149</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>83,299</strong></td>
<td><strong>5,688</strong></td>
<td><strong>5,884</strong></td>
</tr>
</tbody>
</table>

*Source: Labour Force Survey Report 2016, MoLHR.*
Table 4.11: Total Employed Persons by Major Economic Activity and Nature of Employment, Bhutan, 2016

<table>
<thead>
<tr>
<th>Major Economic Activity</th>
<th>Own-account workers (Non-agriculture)</th>
<th>Own-account workers (Agriculture)</th>
<th>Family workers (Non-agriculture)</th>
<th>Family workers (Agriculture)</th>
<th>Employer</th>
<th>Don't know</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture and Forestry</td>
<td>0</td>
<td>91,916</td>
<td>0</td>
<td>105,666</td>
<td>0</td>
<td>0</td>
<td>198,429</td>
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<tr>
<td>Mining and Quarrying</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1,148</td>
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<tr>
<td>Manufacturing</td>
<td>7,795</td>
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<td>0</td>
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<td>0</td>
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<td>0</td>
<td>4,466</td>
</tr>
<tr>
<td>Water supply, Sewage, Waste Management</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>90</td>
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<td>Construction</td>
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<td>0</td>
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<td>0</td>
<td>9,106</td>
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<td>0</td>
<td>0</td>
<td>11,101</td>
</tr>
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<td>0</td>
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<td>0</td>
<td>9,164</td>
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<td>0</td>
<td>0</td>
<td>34</td>
<td>0</td>
<td>2,195</td>
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<tr>
<td>Financial and Insurance Activities</td>
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<td>0</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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<td>149</td>
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<td><strong>8,615</strong></td>
<td><strong>105,666</strong></td>
<td><strong>154</strong></td>
<td><strong>50</strong></td>
<td><strong>347,133</strong></td>
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Source: Labour Force Survey Report 2016, MoLHR.
Table 4.12: Employed Persons who looked for additional work by Dzongkhag, Sex and Area of Residence, Bhutan, 2016

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<tr>
<th>Dzongkhag</th>
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<th></th>
<th>Rural</th>
<th></th>
<th>Bhutan</th>
<th></th>
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<td></td>
<td>Male</td>
<td>Female</td>
<td>Total</td>
<td>Male</td>
<td>Female</td>
<td>Total</td>
</tr>
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<td>31</td>
<td>123</td>
<td>154</td>
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<td>...</td>
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<tr>
<td>Dagana</td>
<td>...</td>
<td>...</td>
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<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Gasa</td>
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<td>97</td>
<td>391</td>
<td>292</td>
<td>97</td>
<td>389</td>
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<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Lhuntse</td>
<td>83</td>
<td>195</td>
<td>278</td>
<td>76</td>
<td>190</td>
<td>266</td>
</tr>
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<td>569</td>
<td>255</td>
<td>255</td>
<td>510</td>
</tr>
<tr>
<td>Paro</td>
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<td>117</td>
<td>249</td>
<td>111</td>
<td>111</td>
<td>222</td>
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<td>97</td>
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<td>97</td>
<td>97</td>
<td>194</td>
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<td>133</td>
<td>113</td>
<td>0</td>
<td>113</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
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<td>103</td>
<td>90</td>
<td>0</td>
<td>90</td>
</tr>
<tr>
<td>Samtse</td>
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<td>164</td>
<td>328</td>
<td>164</td>
<td>164</td>
<td>328</td>
</tr>
<tr>
<td>Sarpang</td>
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<td>234</td>
<td>234</td>
<td>0</td>
<td>234</td>
</tr>
<tr>
<td>Thimphu</td>
<td>41</td>
<td>0</td>
<td>41</td>
<td>41</td>
<td>0</td>
<td>41</td>
</tr>
<tr>
<td>Trashigang</td>
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<td>125</td>
<td>125</td>
<td>0</td>
<td>125</td>
</tr>
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<td>0</td>
<td>300</td>
<td>296</td>
<td>0</td>
<td>296</td>
</tr>
<tr>
<td>Trongsa</td>
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<td>3</td>
<td>57</td>
<td>52</td>
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<td>52</td>
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<td>242</td>
<td>242</td>
<td>0</td>
<td>242</td>
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<td>457</td>
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<td>430</td>
</tr>
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<td>10</td>
<td>24</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

|                  |        |       |       |       |        |       |
| Total            | 2,801  | 1,139 | 3,941 | 2,649 | 1,037  | 3,686 |

Source: Labour Force Survey Report 2016, MoLHR.
Table 4.13: Employed persons who worked per week by hours and by Major Economic Activity, Bhutan, 2016

<table>
<thead>
<tr>
<th>Major Economic Activity</th>
<th>Total Hours Worked per Week</th>
<th>Total</th>
</tr>
</thead>
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<tr>
<td></td>
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<td>Agriculture and Forestry</td>
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</tr>
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<td>Mining and Quarrying</td>
<td>0</td>
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</tr>
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<td>Manufacturing</td>
<td>1,086</td>
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<td>Electricity and Gas Supply</td>
<td>14</td>
<td>759</td>
</tr>
<tr>
<td>Water supply, Swareage, Waste Management</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Construction</td>
<td>378</td>
<td>532</td>
</tr>
<tr>
<td>Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles</td>
<td>349</td>
<td>1,347</td>
</tr>
<tr>
<td>Transport and Storage</td>
<td>259</td>
<td>1,128</td>
</tr>
<tr>
<td>Accomodation and Food Service Activities</td>
<td>87</td>
<td>789</td>
</tr>
<tr>
<td>Information and Communication</td>
<td>50</td>
<td>497</td>
</tr>
<tr>
<td>Financial and Insurance Activities</td>
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<td>1,382</td>
</tr>
<tr>
<td>Real Estate Activities</td>
<td>471</td>
<td>413</td>
</tr>
<tr>
<td>Professional, Sentific and Technical</td>
<td>0</td>
<td>154</td>
</tr>
<tr>
<td>Administrative and Support Service Activities</td>
<td>118</td>
<td>998</td>
</tr>
<tr>
<td>Public Administration &amp; Defense</td>
<td>584</td>
<td>7,353</td>
</tr>
<tr>
<td>Education</td>
<td>513</td>
<td>2837</td>
</tr>
<tr>
<td>Human Health &amp; Social Work</td>
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<td>1130</td>
</tr>
<tr>
<td>Arts, Entertainment and Recreation</td>
<td>193</td>
<td>249</td>
</tr>
<tr>
<td>Other Service Activities</td>
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<td>1009</td>
</tr>
<tr>
<td>Activities of Household as Employers</td>
<td>59</td>
<td>0</td>
</tr>
<tr>
<td>Activities of Extraterritorial Organization</td>
<td>0</td>
<td>50</td>
</tr>
</tbody>
</table>

Total | 12,023 | 64,140 | 131,536 | 76,210 | 32,829 | 20,253 | 10,136 | 347,127 |

Source: Labour Force Survey Report 2016, MoLHR.
### Table 4.14: Employed Persons by Major Economic Activity and Level of Education, Bhutan, 2016

<table>
<thead>
<tr>
<th>Major Economic Activity</th>
<th>No formal education</th>
<th>Primary</th>
<th>Lower Secondary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture and Forestry</td>
<td>149,090</td>
<td>16,646</td>
<td>8,524</td>
</tr>
<tr>
<td>Mining and Quarrying</td>
<td>569</td>
<td>30</td>
<td>63</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>9,234</td>
<td>2,453</td>
<td>2,259</td>
</tr>
<tr>
<td>Electricity and Gas Supply</td>
<td>784</td>
<td>534</td>
<td>386</td>
</tr>
<tr>
<td>Water supply, Sewage, Waste Management</td>
<td>90</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>3,612</td>
<td>616</td>
<td>660</td>
</tr>
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<td>2,159</td>
</tr>
<tr>
<td>Transport and Storage</td>
<td>5,332</td>
<td>1,356</td>
<td>1,168</td>
</tr>
<tr>
<td>Accommodation and Food Service Activities</td>
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<td>614</td>
<td>855</td>
</tr>
<tr>
<td>Information and Communication</td>
<td>237</td>
<td>111</td>
<td>121</td>
</tr>
<tr>
<td>Financial and Insurance Activities</td>
<td>160</td>
<td>36</td>
<td>78</td>
</tr>
<tr>
<td>Real Estate Activities</td>
<td>1,164</td>
<td>336</td>
<td>131</td>
</tr>
<tr>
<td>Professional, Scientific and Technical</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Administrative and Support Service Activities</td>
<td>779</td>
<td>314</td>
<td>124</td>
</tr>
<tr>
<td>Public Administration &amp; Defense</td>
<td>7,791</td>
<td>4,357</td>
<td>2,936</td>
</tr>
<tr>
<td>Education</td>
<td>874</td>
<td>504</td>
<td>61</td>
</tr>
<tr>
<td>Human Health &amp; Social Work</td>
<td>241</td>
<td>398</td>
<td>106</td>
</tr>
<tr>
<td>Arts, Entertainment and Recreation</td>
<td>372</td>
<td>190</td>
<td>182</td>
</tr>
<tr>
<td>Other Service Activities</td>
<td>2394</td>
<td>462</td>
<td>35</td>
</tr>
<tr>
<td>Activities of Household as Employers</td>
<td>407</td>
<td>45</td>
<td>0</td>
</tr>
<tr>
<td>Activities of Extraterritorial Organization</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>196,833</strong></td>
<td><strong>32,135</strong></td>
<td><strong>19,848</strong></td>
</tr>
</tbody>
</table>

*Source: Labour Force Survey Report 2016, MoLHR.*
### Table 4.14: Employed Persons by Major Economic Activity and Level of Education, Bhutan, 2016

<table>
<thead>
<tr>
<th>Major Economic Activity</th>
<th>Level of Education</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Middle Secondary</td>
<td>Higher Secondary</td>
</tr>
<tr>
<td>Agriculture and Forestry</td>
<td>149,090</td>
<td>1,977</td>
</tr>
<tr>
<td>Mining and Quarrying</td>
<td>569</td>
<td>30</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>9,234</td>
<td>2,453</td>
</tr>
<tr>
<td>Electricity and Gas Supply</td>
<td>784</td>
<td>534</td>
</tr>
<tr>
<td>Water supply, Sewerage, Waste Management</td>
<td>90</td>
<td>0</td>
</tr>
<tr>
<td>Construction</td>
<td>3,612</td>
<td>616</td>
</tr>
<tr>
<td>Wholesale and Retail Trade; Repair of Motor</td>
<td>10,738</td>
<td>3,131</td>
</tr>
<tr>
<td>Vehicles and Motorcycles</td>
<td>5,332</td>
<td>1,356</td>
</tr>
<tr>
<td>Accommodation and Food Service Activities</td>
<td>2,965</td>
<td>614</td>
</tr>
<tr>
<td>Information and Communication</td>
<td>237</td>
<td>111</td>
</tr>
<tr>
<td>Financial and Insurance Activities</td>
<td>160</td>
<td>36</td>
</tr>
<tr>
<td>Real Estate Activities</td>
<td>1,164</td>
<td>336</td>
</tr>
<tr>
<td>Administrative and Support Service Activities</td>
<td>779</td>
<td>314</td>
</tr>
<tr>
<td>Public Administration &amp; Defense</td>
<td>7,791</td>
<td>4,357</td>
</tr>
<tr>
<td>Education</td>
<td>874</td>
<td>504</td>
</tr>
<tr>
<td>Human Health &amp; Social Work</td>
<td>241</td>
<td>398</td>
</tr>
<tr>
<td>Arts, Entertainment and Recreation</td>
<td>372</td>
<td>190</td>
</tr>
<tr>
<td>Other Service Activities</td>
<td>2394</td>
<td>462</td>
</tr>
<tr>
<td>Activities of Household as Employers</td>
<td>407</td>
<td>45</td>
</tr>
<tr>
<td>Activities of Extraterritorial Organization</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>30,317</strong></td>
<td><strong>28,150</strong></td>
</tr>
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</table>

Source: Labour Force Survey Report 2016, MoLHR.
### Table 4.15: Employed persons who worked during the past one week by nature of employment and hours of work, Bhutan, 2016

<table>
<thead>
<tr>
<th>Nature of Employment</th>
<th>Total Hours Worked per week</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>&lt;30</td>
<td>30-39</td>
</tr>
<tr>
<td>Regular paid employee</td>
<td>1,464</td>
<td>17,649</td>
</tr>
<tr>
<td>Casual paid employee</td>
<td>490</td>
<td>987</td>
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<tr>
<td>Contract/piece paid worker</td>
<td>155</td>
<td>653</td>
</tr>
<tr>
<td>Own-account workers (Non-agriculture)</td>
<td>2,823</td>
<td>3,858</td>
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<tr>
<td>Own-account workers (Agriculture)</td>
<td>2,705</td>
<td>10,059</td>
</tr>
<tr>
<td>Family workers (Non-agriculture)</td>
<td>684</td>
<td>967</td>
</tr>
<tr>
<td>Family workers (Agriculture)</td>
<td>3,676</td>
<td>29,913</td>
</tr>
<tr>
<td>Employer</td>
<td>26</td>
<td>8</td>
</tr>
<tr>
<td>Don’t know</td>
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<td>50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>12,023</td>
<td>64,144</td>
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</table>

*Source: Labour Force Survey Report 2016, MoLHR.*

### Table 4.16: Unemployed Persons by Age Group, Sex and Area of Residence, Bhutan, 2016

<table>
<thead>
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<th>Age</th>
<th>Rural</th>
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<th></th>
<th>Total</th>
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<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Total</td>
<td>Male</td>
<td>Female</td>
<td>Total</td>
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<tr>
<td>15-19</td>
<td>164</td>
<td>406</td>
<td>570</td>
<td>31</td>
<td>83</td>
<td>114</td>
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<tr>
<td>20-24</td>
<td>1,316</td>
<td>841</td>
<td>2,157</td>
<td>917</td>
<td>1,055</td>
<td>1,972</td>
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<tr>
<td>25-29</td>
<td>600</td>
<td>479</td>
<td>1,079</td>
<td>503</td>
<td>718</td>
<td>1,221</td>
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<tr>
<td>30-34</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>163</td>
<td>53</td>
<td>216</td>
</tr>
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<td>35-39</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>23</td>
<td>33</td>
</tr>
<tr>
<td>40-44</td>
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<td>0</td>
<td>7</td>
<td>11</td>
<td>18</td>
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<tr>
<td>45-49</td>
<td>111</td>
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<td>111</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>50-54</td>
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<td>0</td>
<td>7</td>
<td>7</td>
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<td>55-59</td>
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<td>60-64</td>
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<tr>
<td>65+</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2,191</td>
<td>1,726</td>
<td>3,917</td>
<td>1,657</td>
<td>1,950</td>
<td>3,607</td>
</tr>
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</table>

*Source: Labour Force Survey Report 2016, MoLHR.*
The Ministry of Agriculture and Forests (MoAF), over the past four decades, was concerned about “how to grow” by establishing various agriculture infrastructures to produce and distribute the inputs. Currently the MoAF established four main Renewable Natural Resources (RNR) research centers.

The MoAF with the accumulated experiences having accomplished one five year plan to the other, maintains the three basic objectives that are to i) conserve the environment, ii) enhance the rural income and iii) attain self-reliance in cereals and essential oil crops. In 2017, Agriculture contributed 15.17 percent to the total economy i.e. as measured by the Gross Domestic Product.

Agricultural practices have changed tremendously over the years. Until a decade ago, agriculture was practiced on a subsistence basis. Whatever was produced on the farm was consumed having little or no marketable surplus. The farm production is supplemented by keeping different kinds of domestic animals such as cattle for draught and milking purpose, chicken for eggs and pigs for meat etc. At higher altitudes, herds of yaks and sheep are also kept for draught and milking.

Owing to the improved communication facilities in the country, there is an increasing tendency to go for cash crops like apples in the temperate north; oranges, areca nut and cardamom in the subtropical south. Other cash crops that are exported include ginger, chilies and vegetables.
Strategies to increase livestock and cereal production include the propagation and practice of double cropping of the paddy production and distribution of high yield varieties. In the livestock sector the artificial insemination covers not only for the Jersey breeds that are high yielding but also for the production of Jatsa and Jatsam that are local high yielding varieties. As a result, increasing number of farms is mechanized with sizable investment on the machinery and other inputs that are subsidized by the government.

The issue is not only to formulate well-balanced agricultural policies and the response shown by the farmers to the designed policies and also to monitor the progress. To do this, a good statistical database, giving the trends or time series is required.

Back in 1988/89, the National Agronomic Survey was carried out in collaboration with the then Department of Agriculture. Though the MoAF conducted nation-wide sample surveys called RNR Census in 2009, but the major source of data presented in this chapter are from the Bhutan RNR Statistics 2016 and administrative records maintained by different departments under the MoAF.
<table>
<thead>
<tr>
<th>Infrastructure</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
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<tr>
<td><strong>RNR (Common services)</strong></td>
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<td>RNR Extension Centers</td>
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<tr>
<td>National Plant Protection Center</td>
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<tr>
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<td>1</td>
<td>1</td>
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<tr>
<td><strong>Livestock</strong></td>
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<td></td>
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<td>Dzongkhag Veterinary Hospitals</td>
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<td>20</td>
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<td>12</td>
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<td>11</td>
<td>13</td>
<td>14</td>
<td>20</td>
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<td>National Research and Development Center for Riverine and Lake Fisheries, Haa</td>
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<td>1</td>
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<td>National Center for Animal Health</td>
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<td>Liquid Nitrogen Centre</td>
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<td>1</td>
<td>2</td>
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<tr>
<td>Semen Processing Centre</td>
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cont...
### Infrastructure

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<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Livestock Product Value Addition Centre, Serbithang</td>
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<td>...</td>
<td>...</td>
<td>1</td>
<td>...</td>
</tr>
</tbody>
</table>

#### Forestry

- **Territorial Division HQs**: 12 12 12 14 14
- **Range Offices**: 55 55 55 70 71
- **Beat Offices**: 80 80 80 81 94
- **Check post**: 41 41 41 41 33
- **National Parks**: 5 5 5 5 5
- **Wildlife Sanctuaries & Strict Nature Reserve**: 3 3 3 4 5
- **Nature Conservation Study Center**: 1 1 1 1 1
- **Forest Management Unit Office**: 14 14 14 16 20
- **Recreational Park**: 1 1 1 1 1
- **Forestry Conservation Research & Training Institute**: ... ... ... 1 1
- **Conifer Forestry Research Sub Center**: ... ... ... ... ...
- **NWFP and Agroforestry Technology Sub Center**: ... ... ... ... ...
- **Sub Tropical Forestry Technology Sub Center**: ... ... ... ... ...
- **Functional Divisions**: 6 6 6 5 6
- **Memorial Garden (Kudrong, Langjopjaka)**: ... ... ... 1 1
- **Nature Park (Kuenselphodrang)**: ... ... ... 1 1
- **Agro-forestry Project (Samazingkha)**: ... ... ... 1 1
- **Royal Tree Nursery (Samteling)**: ... ... ... 1 1
- **Percent of Forest cover**: 70.46 70.46 70.46 71.00 71.00
- **Percent of Protected Area Network**: 51.40 51.40 51.40 51.44 51.44

*Source: FIMS, DoA, DoFPS, MoAF, Thimphu.*
Table 5.2: Area Proportion by Altitude Zones as Percentage of Total Country Area, Bhutan, 2010

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>Altitude Zones (metres)</th>
<th>&lt; 600</th>
<th>600-1800</th>
<th>1800-2400</th>
<th>2400-3000</th>
<th>3000-3600</th>
<th>3600-4200</th>
<th>4200-4800</th>
<th>4800-5400</th>
<th>&gt; 5400</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bumthang</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.02</td>
<td>0.51</td>
<td>1.76</td>
<td>1.86</td>
<td>1.37</td>
<td>1.35</td>
<td>0.14</td>
<td>7.01</td>
</tr>
<tr>
<td>Chhukha</td>
<td>0.23</td>
<td>0.82</td>
<td>1.04</td>
<td>0.99</td>
<td>0.96</td>
<td>0.64</td>
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<td>0.01</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
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<td>0.85</td>
<td>0.80</td>
<td>0.37</td>
<td>0.17</td>
<td>0.04</td>
<td>0.00</td>
<td>0.00</td>
<td>4.48</td>
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<td>0.08</td>
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<td>0.48</td>
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<td>2.31</td>
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<td>1.41</td>
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<td>1.13</td>
<td>1.18</td>
<td>0.77</td>
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Source: Land Cover Mapping Project 2010, NSSC/PPD MoAF, Thimphu.
Table 5.3: Area Proportion by Altitude Zones as Percentage of Total Dzongkhag Area, Bhutan, 2017

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Source: RNR Statistics Division, MoAF, Thimphu.
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Source: RNR Statistics Division, MoAF, Thimphu.
Table 5.4: Distribution of Plant Protection Chemicals by Dzongkhag, Bhutan, (2012/13-2017)

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*Source: RNR Statistics Division, Directorate Services, MoAF*
### Table 5.5: Agriculture Land Holdings & Land Types by Dzongkhag, Bhutan, 2010

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*Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.*
### Table 5.6: Cultivated Area, Production and Yield of Major Crops by Dzongkhag, Bhutan, 2017

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*Source: RNR Statistics Division, Directorate Services, MoAF*
### Table 5.6: Cultivated Area, Production and Yield of Major Crops by Dzongkhag, Bhutan, 2017

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Source: RNR Statistics Division, Directorate Services, MoAF
Table 5.7: Number of Livestock by Type and Dzongkhag, Bhutan, (2015-2017)

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*Source: Department of Livestock, MoAF.*
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### Table 5.9: Fruit Production and Yield, Bhutan, (2013-2017)

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Source: RNR Statistics Division, Directorate Services, MoAF

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*Source: RNR Statistics Division, Directorate Services, MoAF*
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Note: ¹ After 2012, Wheat/Barley includes only wheat flour
Source: RNR Statistics Division, Directorate Services, MoAF
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Note: 1. After 2012, Wheat / Barley includes only wheat flour
2. Source: RNR Statistics Division, Directorate Services, MoAF
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<td>Milk powder</td>
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<tr>
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*Note:  Salt includes iodised and non-iodised  
Source: RNR Statistics Division, Directorate Services, MoAF*
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Note: Salt includes iodised and non-iodised

Source: RNR Statistics Division, Directorate Services, MoAF
Table 5.13: Annual Average Price of Farm Products Received by Farmers, by Type, Bhutan, (2013-2017)

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<th>2017</th>
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cont...
### Table 5.13 cont...

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*Source: RNR Statistics Division, Directorate of Services, MoAF*

### Table 5.14: Imports and Sales of Food Items by Food Corporation of Bhutan, (2013-2017) (Metric tones)

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<th>2016</th>
<th>2017</th>
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<td>796.23</td>
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<td>413.46</td>
<td>324.90</td>
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</tr>
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<td>472.50</td>
<td>652.44</td>
<td>573.63</td>
<td>694.32</td>
</tr>
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<td>217.56</td>
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<td>242.26</td>
<td>232.14</td>
<td>267.09</td>
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*Source: Food Corporation of Bhutan, Phuentsholing.*
Table 5.15: Quantity of Agricultural Produce Handled by Food Corporation of Bhutan, (2013-2017)

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<th>Commodity</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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<td>24.87</td>
<td>28.84</td>
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<td>2,112.97</td>
<td>1,853.71</td>
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<td>667.38</td>
</tr>
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<td>0.00</td>
</tr>
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<td>587.40</td>
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<td>0.07</td>
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<td>232.33</td>
<td>437.94</td>
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<td>0.00</td>
<td>0.00</td>
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<td>8.65</td>
<td>12.89</td>
<td>6.30</td>
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<td>Pipla (wild)</td>
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<td>0.02</td>
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<td>2.08</td>
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<td>Cordyceps</td>
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</tr>
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</table>

Source: Food Corporation of Bhutan, Phuentsholing
The conservation of environment is one of the four pillars of Bhutan’s development philosophy of Gross National Happiness (GNH). Accordingly the Royal Government of Bhutan (RGoB) has been putting constant effort in protecting the environment and the priority has been in the sustainable use of natural resources in all its policies, plans and programs.

This chapter presents statistics which are related to environment. The statistics presented here are not so comprehensive particularly from the point that some of the statistics are already presented under other chapters. However, the statistics collected and presented in this chapter are organized based on the broad Framework for Development of Environmental Statistics (FDES) provided by the United Nations Statistics Division. The six components of FDES, namely, environmental conditions & quality, environmental resources & their use, emissions, residuals & waste, extreme events & disasters, human habitat & environmental health, environmental protection, management & engagement have been used to gather statistics from different sources.

The chapter on Environment Statistics gives a general statistics on atmosphere, climate & weather, hydrographic characteristics, geological & geographic information, land cover, biodiversity and forest. It also gives statistics on extraction & trade of mineral, production & use of energy, land use, timber resources & their use, crops, livestock, water resources, emissions of greenhouse gases, occurrence & impact of natural extreme events & disasters, urban & rural population, water & sanitation, other urban habitat concerns and government environmental protection & resource management expenditures.
### Table 6.1: Area of Land-Use and Vegetation by Types, Bhutan, 2017

<table>
<thead>
<tr>
<th>Land Cover Class</th>
<th>Area (Hacter)</th>
<th>Area (Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpine Scrubs</td>
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</tr>
<tr>
<td>Built up</td>
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<tr>
<td>Cultivated Agriculture</td>
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</tr>
<tr>
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</tr>
<tr>
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<td>Orchards</td>
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<td>Chirpine</td>
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<tr>
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</tr>
<tr>
<td>Mixed Conifer</td>
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<tr>
<td>Landslides</td>
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<tr>
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</tr>
<tr>
<td>Moraines</td>
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<tr>
<td>Non Built up</td>
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<td>Rocky Outcrops</td>
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<td>Scree</td>
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<td>Shrubs</td>
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<tr>
<td>Snow and Glacier</td>
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</tr>
<tr>
<td>Water Bodies</td>
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<td>Rivers</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>3,839,400.00</strong></td>
<td><strong>100.00</strong></td>
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*Source: Land Use and Land Cover of Bhutan 2016, GIS Section, FRMD, MoAF, Thimphu.*
# Table 6.2: Area Proportion as Percentage of Total Dzongkhag Area by Type of Land Cover, Bhutan, 2017

<table>
<thead>
<tr>
<th>Dzongkhag/LULC Class</th>
<th>Forest</th>
<th>Cultivated Agriculture</th>
<th>Meadows</th>
<th>Alpine Shurbs</th>
<th>Shrubs</th>
<th>Water Bodies</th>
<th>Snow &amp; Glacier</th>
<th>Build up</th>
<th>Non Build up</th>
<th>Landslides</th>
<th>Moraines</th>
<th>Rocky Outcrops</th>
<th>Scree</th>
<th>Total</th>
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</thead>
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*Source: Land Use and Land Cover of Bhutan 2016, GIS Section, FRMD, MoAF, Thimphu.*
### Table 6.3: Area Proportion as Percentage of Total Country Area by Type of Land Cover, Bhutan, 2010

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>Forest Areas</th>
<th>Agriculture Areas</th>
<th>Meadows</th>
<th>Shrubs</th>
<th>Water Bodies</th>
<th>Snow Cover</th>
<th>Others</th>
<th>Total</th>
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<td>0.23</td>
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*Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.*
Table 6.4: Forest Area Under Tree Cover by Dzongkhags, Bhutan, 2010

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<tr>
<th>Dzongkhag</th>
<th>Total area (Sq.km)</th>
<th>Blue Pine Forest</th>
<th>Broadleaf Forest</th>
<th>Broadleaf with Conifer Forest</th>
<th>Chir Pine Forest</th>
<th>Fir Forest</th>
<th>Mixed Conifer Forest</th>
<th>Tree Cover Area</th>
<th>Percent</th>
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*Source: Land Cover Mapping Project 2010, NSSC/PPD, MoAF, Thimphu.*
Table 6.5: Monthly Maximum and Minimum Average Temperature by Dzongkhag, Bhutan, 2017

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<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
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Source: Weather and Climate Services Division, National Center for Hydrology and Meteorology, MoEA, Thimphu.
|                | Max   | 22.5  | 23.6  | 24    | 25.6  | 27.2  | 27.8  | 28.8  | 27.9  | 27.8  | 27.1  | 25.6  | 23.4  | 25.9  |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Dorhung, Samdrup | Min   | 10.9  | 12.8  | 13.7  | 16.9  | 19    | 20.3  | 20.9  | 21.3  | 20.6  | 18.1  | 14.1  | 12    | 16.7  |
| Jongkhar       | Ave    | 16.7  | 18.2  | 18.85 | 21.25 | 23.1  | 24.05 | 24.85 | 24.6  | 24.2  | 22.6  | 19.85 | 17.7  | 21.3  |
| Sipsu, Samtse  | Max    | 26.4  | 28.2  | 27.5  | 29.9  | 30.6  | 30.5  | 29.4  | 30    | 30.5  | 30.8  | 28.8  | 26.5  | 29.1  |
|                | Min    | 11.7  | 14.2  | 14.3  | 19.3  | 19.9  | 22.3  | 21.6  | 22.8  | 22    | 20.6  | 16.4  | 14    | 18.3  |
|                | Ave    | 19.05 | 21.2  | 20.9  | 24.6  | 25.25 | 26.4  | 25.5  | 26.4  | 26.25 | 25.7  | 22.6  | 20.25 | 23.7  |
| Bhur, Sarpang  | Max    | 24.5  | 26    | 25.7  | 27.1  | 29    | 29    | 29.7  | 28.9  | 28.6  | 28.8  | 28    | 25.9  | 27.6  |
|                | Min    | 15    | 17.4  | 18.2  | 21    | 22.8  | 23.7  | 24.6  | 24.1  | 23.4  | 22.2  | 18.3  | 16.6  | 20.6  |
|                | Ave    | 19.75 | 21.7  | 21.95 | 24.05 | 25.9  | 26.35 | 27.15 | 26.5  | 26    | 25.6  | 23.15 | 21.25 | 24.1  |
| Simtokha, Thimphu | Max  | 16.3  | 18.1  | 18.4  | 22.9  | 23.8  | 27.4  | 26.6  | 28    | 27.9  | 24.6  | 20.6  | 19.4  | 22.8  |
|                | Min    | -3.8  | 0.9   | 3.2   | 7.3   | 10.3  | 14    | 15.3  | 15.1  | 14    | 9.4   | 0.6   | -2.3  | 7    |
|                | Ave    | 6.25  | 9.5   | 10.8  | 15.1  | 17.05 | 20.7  | 20.95 | 21.55 | 20.95 | 17    | 10.6  | 8.55  | 14.9  |
| Kanglung, Trashigang | Max  | 18.7  | 20.2  | 21.5  | 25.6  | 26.9  | 28    | 27.6  | 27.3  | 27.1  | 25.9  | 21.9  | 19.9  | 24.2  |
|                | Min    | 2.8   | 5.1   | 5.7   | 10.5  | 12.7  | 15.3  | 16    | 16    | 15.1  | 12.2  | 6.4   | 5.4   | 10.3  |
|                | Ave    | 10.75 | 12.65 | 13.6  | 18.05 | 19.8  | 21.65 | 21.8  | 21.65 | 21   | 19.05 | 14.15 | 12.65 | 17.2  |
| Trashi Yangtse | Max    | 16.4  | 18.8  | 19.8  | 22.6  | 24.1  | 25.3  | 25.3  | 25.5  | 25.6  | 24    | 19.9  | 18.5  | 22.2  |
|                | Min    | -0.4  | 3.7   | 5.8   | 9.1   | 11.9  | 15.4  | 16.8  | 17.3  | 16.2  | 11.4  | 5.1   | 2.9   | 9.6   |
|                | Ave    | 8     | 11.25 | 12.8  | 15.8  | 18    | 20.35 | 21.05 | 21.4  | 20.9  | 17.7  | 12.5  | 10.7  | 15.9  |
| Trongsa        | Max    | 15.3  | 15.6  | 16.1  | 19.6  | 20.8  | 22.2  | 22.6  | 22.2  | 22    | 21    | 17.6  | 16.8  | 19.3  |
|                | Min    | 0.5   | 4.3   | 4.9   | 8.8   | 11.8  | 14.7  | 15.8  | 16.2  | 15.5  | 10.8  | 4.5   | 3.5   | 9.3   |
|                | Ave    | 7.9   | 9.95  | 10.5  | 14.2  | 16.3  | 18.45 | 19    | 19.4  | 18.85 | 15.9  | 11.05 | 10.15 | 14.3  |
| Damphu, Tsirang | Max    | 15.8  | 17.5  | 17.9  | 21.4  | 23.2  | 24.2  | 24.1  | 24    | 24.2  | 22.9  | 19.7  | 18    | 21.1  |
|                | Min    | 5.5   | 8     | 9.1   | 13.7  | 16.8  | 18.9  | 19.3  | 19.7  | 19.3  | 15.1  | 9.6   | 8.1   | 13.6  |
|                | Ave    | 10.65 | 12.75 | 13.5  | 17.55 | 20    | 21.55 | 21.7  | 21.85 | 21.75 | 19    | 14.65 | 13.05 | 17.3  |
| Wangdue (RNRRC), Wangdue Phodrang | Max  | 21.1  | 22.9  | 22.4  | 26.2  | 29.6  | 31.2  | 30.1  | 30.2  | 29.6  | 28.1  | 26.2  | 24.4  | 26.8  |
|                | Min    | 3     | 8.1   | 10.3  | 14.2  | 17.3  | 20.7  | 20.9  | 21    | 20.9  | 16.7  | 9.1   | 7.5   | 14.1  |
|                | Ave    | 12.1  | 15.5  | 16.4  | 20.2  | 23.4  | 25.9  | 25.5  | 25.6  | 25.3  | 22.4  | 17.6  | 15.9  | 20.5  |
| Zhempang       | Max    | 14.6  | 15.9  | 16.2  | 20.2  | 22.6  | 23.3  | 25.4  | 25.1  | 24.1  | 23.1  | ...   | 16.5  | 20.6  |
|                | Min    | 3.9   | 6.4   | 7.2   | 11.9  | 15    | 16.5  | 17.9  | 17.3  | 16.6  | 13    | ...   | 6.1   | 11.0  |
|                | Ave    | 9.25  | 11.15 | 11.7  | 16.05 | 18.8  | 19.9  | 21.65 | 21.2  | 20.35 | 18.05 | ...   | 11.3  | 15.0  |

Source: Weather and Climate Services Division, National Center for Hydrology and Meteorology, MoEA, Thimphu.
Table 6.6: Total Monthly Rainfall at Existing Stations in each Dzongkhag, Bhutan, 2017

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Source: Wheather and Climate Services Division, National Center for Hydrology and Meteorology, MoEA, Thimphu.
# Table 6.6: Total Monthly Rainfall at Existing Stations in each Dzongkhag, Bhutan, 2017

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Source: Wheather and Climate Services Division, National Center for Hydrology and Meteorology, MoEA, Thimphu.
Table 6.7: Details of Protected Areas in Bhutan, by Year of Establishment, Area and Dzongkhags, Bhutan, 2017

<table>
<thead>
<tr>
<th>Name of Area</th>
<th>Year of Establishment</th>
<th>Area (Sq. km)</th>
<th>Dzongkhags</th>
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<td>Wangchuck Centenial National Park</td>
<td>2008</td>
<td>4,914.00</td>
<td>Gasa, Wangdue, Bumthang, Trongsa &amp; Lhuentse</td>
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<td>Jigme Dorji National Park</td>
<td>1995</td>
<td>4,316.00</td>
<td>Punakha, Gasa, Thimphu &amp; Paro</td>
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<td>Jigme Singye Wangchuck National Park</td>
<td>1995</td>
<td>1,730.00</td>
<td>Trongsa, Wangdue, Sarpang, Tsirang &amp; Zhemgang</td>
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<td>Royal Manas National Park</td>
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<td>1,057.00</td>
<td>Sarpang &amp; Zhemgang</td>
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<td>Phrumensengla National Park</td>
<td>2000</td>
<td>905.05</td>
<td>Bumthang, Lhuntse, Mongar &amp; Zhemgang</td>
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<td>Wildlife Sanctuaries</td>
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<td>Bomdeling Wildlife Sanctuary</td>
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<td>Sakteng Wildlife Sanctuary</td>
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<td>740.60</td>
<td>Trashigang &amp; Samdrup Jngkhar</td>
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<td>Phibsoo Wildlife Sanctuary</td>
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<td>334.73</td>
<td>Samdrup Jngkhar</td>
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<td>Haa</td>
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<td>Haa, Paro, Thimphu, Punakha, Wangdue, Sarpang,</td>
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<td></td>
<td>Tsirang, Trongsa, Zhemgang, Bumthang, Mongar,</td>
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<td></td>
<td></td>
<td></td>
<td>Lhuntse, Trashigang &amp; Samdrup Jngkhar</td>
</tr>
<tr>
<td>Recreational Park</td>
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<tr>
<td>Royal Botanical Park</td>
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<td>47.00</td>
<td>Thimphu</td>
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**Total**                                     |                       | 19,749.96      |                                                 |

Source: FIMS, FRMD, DoFPS, MoAF, Thimphu
Table 6.8: Wood and Non-Wood Forest Products Supplied by Natural Resources Development Corporation Limited, Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Product Type</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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<td><strong>Wood Products</strong></td>
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<tr>
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<td>1,903,067.00</td>
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<td>Logs, Rural (cft)</td>
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<td>Logs, Dzongs/Lhakhangs Construction (cft)</td>
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<td>Stone aggregates from the crushing plant</td>
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<td>1,901,010.39</td>
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<td>6621.76 (MT)</td>
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<td>266,580.00</td>
<td>185,340.00</td>
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*Source: NRDCL, MoAF, Thimpu.*
Table 6.9:  Supply of Timber by Divisions by Product Type, Bhutan, 2017

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<th>Bumthang</th>
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<th>Mongar</th>
<th>Paro</th>
<th>Pema Gatshel</th>
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<td>...</td>
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Source: Dept. of Forest and Park Services, Forest Resources Management Division, MoAF, Thimphu
### Table 6.9: Supply of Timber by Divisions by Product Type, Bhutan, 2017

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<th>Product Type</th>
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<th>Sarpang</th>
<th>Thimphu</th>
<th>Trashigang</th>
<th>Tsirang</th>
<th>Wangdue</th>
<th>Zhemgang</th>
<th>S/Jongkhar</th>
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Source: Dept. of Forest and Park Services, Forest Resources Management Division, MoAF, Thimphu
### Table 6.10: Supply of Timber by Parks and Wildlife Sanctuaries by Product Type, Bhutan, 2017

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<th>PNP</th>
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<td>805.00</td>
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<td>225.00</td>
<td>1,034.00</td>
<td>15,345.00</td>
<td>4,101.00</td>
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*Source: Dept. of Forest and Park Services, Forest Resources Management Division, MoAF, Thimphu*
Table 6.11: Quantity of Timber Supplied and Royalties Realized by Divisions and Parks, Bhutan, (2013-2014 to 2017)

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<th>Division/Park</th>
<th>2013-2014</th>
<th>Nu. in Millions</th>
<th>2014-2015</th>
<th>Nu. in Millions</th>
<th>2016</th>
<th>Nu. in Millions</th>
<th>2017</th>
<th>Nu. in Millions</th>
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Note: From 2016 onwards, the data are supplied on calendar year.
Source: RNR Statistics Division, Directorate of Services, MoAF
Table 6.12: Non-Wood Forest Products Supplied and Revenue Generated Through Royalty (Nu.), Bhutan, 2017

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Units</th>
<th>Qty Supplied</th>
<th>Royalty Realised (Nu.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aconitum</td>
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</tr>
<tr>
<td></td>
<td>KGM</td>
<td>150</td>
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</tr>
<tr>
<td>Bamboo</td>
<td>Bundle</td>
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<tr>
<td></td>
<td>Truckload</td>
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<tr>
<td></td>
<td>NMB</td>
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<td>119,288.00</td>
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<tr>
<td></td>
<td>M3</td>
<td>1</td>
<td>110.00</td>
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<tr>
<td></td>
<td>Head Load</td>
<td>215</td>
<td>208.00</td>
</tr>
<tr>
<td></td>
<td>KGM</td>
<td>150</td>
<td>300.00</td>
</tr>
<tr>
<td>Cane/ Cane Shoot</td>
<td>Bundle</td>
<td>15</td>
<td>60.00</td>
</tr>
<tr>
<td></td>
<td>Truckload</td>
<td>8</td>
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</tr>
<tr>
<td></td>
<td>NMB</td>
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<td>6,796.00</td>
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<tr>
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<td>Headload</td>
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<td>Charcoal</td>
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<td>Cordyceps</td>
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</tr>
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<td>Lemon Grass Oil</td>
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<td>KGM</td>
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<td>Picorrhiza</td>
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<td>Pine Needles</td>
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<td>458</td>
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<td>Piper spp</td>
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<td>Resin</td>
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cont...
Table 6.12 cont...

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<thead>
<tr>
<th>Product Type</th>
<th>Units</th>
<th>Qty Supplied</th>
<th>Royalty Realised (Nu.)</th>
</tr>
</thead>
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<td>KGM</td>
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<td>Rubia</td>
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<td>515,368.00</td>
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<td>Truckload</td>
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<td>M3</td>
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<td>15,406.00</td>
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<td>Sapindus</td>
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<td>KGM</td>
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<td>Star Anise</td>
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<td>5,540.00</td>
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<td>3,573,203.00</td>
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<td>Swertia chirata</td>
<td>KGM</td>
<td>457</td>
<td>10,968.00</td>
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<td>Terminalia</td>
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<td>Wildlings</td>
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<tr>
<td></td>
<td>NMB</td>
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<td>4,685.00</td>
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<td>Headload</td>
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<td><strong>Grand Total</strong></td>
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*Source: Dept. of Forest and Park Services, Forest Resources Management Division, MoAF, Thimphu*
### Table 6.13: Distribution of Geographical Area by Agro-Ecological Zones, Bhutan, 2010

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<thead>
<tr>
<th>Dzongkhag</th>
<th>Total Area (Sq.km)</th>
<th>Wet Subtropical (100-600)</th>
<th>Humid Subtropical (600-1200)</th>
<th>Dry Subtropical (1200-1800)</th>
<th>Warm Temperate (1800-2600)</th>
<th>Cool Temperate (2600-3600)</th>
<th>Alpine (3600-7500)</th>
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<td>27.1</td>
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<td>41.7</td>
<td>28.1</td>
<td>9.3</td>
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<td>Punakha</td>
<td>1,109.57</td>
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<td>0.2</td>
<td>17.6</td>
<td>36.7</td>
<td>29.4</td>
<td>16.2</td>
</tr>
<tr>
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<td>22.9</td>
<td>23.0</td>
<td>25.6</td>
<td>20.8</td>
<td>7.3</td>
<td>0.4</td>
</tr>
<tr>
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<td>21.0</td>
<td>7.3</td>
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</tr>
<tr>
<td>Sarpang</td>
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<td>21.2</td>
<td>2.8</td>
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<td>30.2</td>
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<td>32.7</td>
<td>18.8</td>
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<td>28.2</td>
<td>41.4</td>
<td>17.5</td>
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<td>31.6</td>
<td>30.7</td>
<td>22.7</td>
<td>7.0</td>
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<td>3.2</td>
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<td>19.0</td>
<td>32.4</td>
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<td>26.8</td>
<td>19.5</td>
<td>9.9</td>
<td>2.3</td>
</tr>
<tr>
<td><strong>Bhutan</strong></td>
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<td><strong>5.6</strong></td>
<td><strong>10.2</strong></td>
<td><strong>13.1</strong></td>
<td><strong>18.6</strong></td>
<td><strong>23.9</strong></td>
<td><strong>28.6</strong></td>
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</table>

*Source: Bhutan RNR Statistics 2016, MoAF*
Table 6.14: Mineral Production by Type, Bhutan, (2013-2017)

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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolomite (metric tonnes)</td>
<td>1,740,015.95</td>
<td>2,040,690.96</td>
<td>2,662,309.68</td>
<td>2,367,659.00</td>
<td>2,536,693.31</td>
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<tr>
<td>Lime stone (metric tonnes)</td>
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<td>1,122,825.09</td>
<td>850,431.17</td>
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<td>Gypsum (metric tonnes)</td>
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<td>414,147.54</td>
<td>389,364.80</td>
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<td>Coal (metric tonnes)</td>
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<td>121,890.58</td>
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<td>161,526.74</td>
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<td>Marble (metric tonnes)</td>
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<td>Slate (square feet)</td>
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<td>...</td>
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<td>...</td>
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<td>Quartzite (metric tonnes)</td>
<td>90,909.28</td>
<td>83,907.14</td>
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<td>Calc Tufa (metric tonnes)</td>
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<td>Iron Ore (metric tonnes)</td>
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Source: Department of Geology and Mines, MoEA, Thimphu.
Table 6.15: Mineral Production by Type and Use, Bhutan, (2014-2017)

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<th>Minerals</th>
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<td></td>
<td>Export</td>
<td>Domestic Use</td>
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<tr>
<td>Dolomite (metric tonnes)</td>
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<td>35,814</td>
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<tr>
<td>Lime stone (metric tonnes)</td>
<td>16,406</td>
<td>1,106,419</td>
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<td>Coal mines (metric tonnes)</td>
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<td>Slate (square feet) (^1)</td>
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<td>Quartzite (metric tonnes)</td>
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<td>Phyllite (metric tonnes)</td>
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</tr>
<tr>
<td>Calc Tufa (metric tonnes)</td>
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<td>...</td>
</tr>
<tr>
<td>Iron Ore (metric tonnes)</td>
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<td>18,997</td>
</tr>
<tr>
<td>Clay</td>
<td>0.00</td>
<td>10,209</td>
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</tbody>
</table>

Source: Department of Geology and Mines, MoEA, Thimphu.
## Table 6.15: Mineral Production by Type and Use, Bhutan, (2014-2017)

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
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<td>Export</td>
<td>Domestic Use</td>
<td>Total</td>
<td>Export</td>
</tr>
<tr>
<td>Dolomite (metric tonnes)</td>
<td>2,004,877</td>
<td>35,814</td>
<td>2,040,691</td>
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<td>Lime Stone (metric tonnes)</td>
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<td>1,257,101</td>
<td>40,121</td>
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<td>Gypsum (metric tonnes)</td>
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<td>45,736</td>
<td>414,148</td>
<td>343,684</td>
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<td></td>
<td>389,365</td>
<td>317,597</td>
<td>317,597</td>
<td>269,385</td>
</tr>
<tr>
<td>Coal Mines (metric tonnes)</td>
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<td>95,317</td>
<td>121,891</td>
<td>5,403</td>
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<td></td>
<td>85,164</td>
<td>1,2102</td>
<td>1,257,101</td>
<td>18,931</td>
</tr>
<tr>
<td>Marble (square feet)</td>
<td>1</td>
<td>39,850</td>
<td>22,071</td>
<td>61,921</td>
</tr>
<tr>
<td></td>
<td>97,648</td>
<td>22,071</td>
<td>22,071</td>
<td>79,818</td>
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<tr>
<td>Slate (square feet)</td>
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<td>...</td>
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<td>1</td>
<td>39,850</td>
<td>22,071</td>
<td>61,921</td>
</tr>
<tr>
<td>Quartzite (metric tonnes)</td>
<td>2,228</td>
<td>81,679</td>
<td>83,907</td>
<td>2,120</td>
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<td>2,546,256</td>
<td>46</td>
<td>2,546,256</td>
<td>46</td>
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<tr>
<td>Talc (metric tonnes)</td>
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<td>5,685</td>
<td>12,601</td>
<td>3,470</td>
</tr>
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<td>43,202</td>
<td>32,974</td>
<td>32,974</td>
<td>43,202</td>
</tr>
<tr>
<td>Stone (metric tonnes)</td>
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<td>1,474,395</td>
<td>104,482</td>
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<td>Granite (square feet)</td>
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<td>63,438</td>
<td>63,438</td>
<td>63,438</td>
<td>96,827</td>
</tr>
<tr>
<td>Phyllite (metric tonnes)</td>
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<td>40,065</td>
<td>40,077</td>
<td>36,592</td>
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<td>40,417</td>
<td>39,185</td>
<td>39,185</td>
<td>41,800</td>
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<td>Calc Tufa (metric tonnes)</td>
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<td>...</td>
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<tr>
<td></td>
<td>28,065</td>
<td>28,065</td>
<td>28,065</td>
<td>...</td>
</tr>
<tr>
<td>Iron Ore (metric tonnes)</td>
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<td>43,202</td>
<td>32,974</td>
<td>32,974</td>
<td>43,202</td>
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Source: Department of Geology and Mines, MoEA, Thimphu.
Table 6.16: Length of Roads by Type, Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Type of Road</th>
<th>Express-way</th>
<th>Primary National Highway</th>
<th>Secondary National Highway</th>
<th>Dzongkhag Road</th>
<th>Urban Road</th>
<th>Farm Road</th>
<th>Access Road</th>
<th>All road</th>
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<td>578.2</td>
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<td>349.7</td>
<td>5,255.2</td>
<td>1,350.5</td>
<td>10,578.2</td>
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<tr>
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<td>1,662.4</td>
<td>510.9</td>
<td>202.1</td>
<td>324.5</td>
<td>2.5</td>
<td>266.7</td>
<td>2,975.3</td>
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<tr>
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<td>67.3</td>
<td>976.2</td>
<td>25.2</td>
<td>5,257.7</td>
<td>1,083.8</td>
<td>7,602.9</td>
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<tr>
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<td>1,941.7</td>
<td>579.2</td>
<td>1,260.7</td>
<td>349.7</td>
<td>5,707.8</td>
<td>1,398.1</td>
<td>11,243.4</td>
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<tr>
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<td>511.1</td>
<td>211.8</td>
<td>327.0</td>
<td>2.5</td>
<td>265.5</td>
<td>3,082.7</td>
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<tr>
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<td>22.7</td>
<td>5,705.3</td>
<td>1,132.6</td>
<td>8,160.8</td>
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<td>1,974.6</td>
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<td>1,508.0</td>
<td>396.8</td>
<td>5,221.5</td>
<td>1,485.4</td>
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<tr>
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<td>1,809.0</td>
<td>515.9</td>
<td>228.1</td>
<td>377.1</td>
<td>2.5</td>
<td>263.1</td>
<td>3,201.9</td>
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<td>1,279.9</td>
<td>19.7</td>
<td>5,219.0</td>
<td>1,222.3</td>
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<td>878.4</td>
<td>2,606.2</td>
<td>436.8</td>
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<td>0.0</td>
<td>3,633.8</td>
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<td>236.6</td>
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<td>86.8</td>
<td>5,049.7</td>
<td>1,406.2</td>
<td>8,714.9</td>
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<tr>
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<td>6.2</td>
<td>1,822.7</td>
<td>903.3</td>
<td>2,004.7</td>
<td>417.1</td>
<td>11,292.3</td>
<td>1,735.1</td>
<td>18,181.3</td>
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<td>12.6</td>
<td>506.7</td>
<td>4,475.2</td>
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<td>14.3</td>
<td>11,279.7</td>
<td>1,228.4</td>
<td>13,706.1</td>
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</tbody>
</table>

Note:  
1. Access road includes Forest road and Power tiller road.  
   a. The national highway before year 2011 is now primary national highway, the district road is now secondary national highway and the feeder road is now Dzongkhag road, therefore it is not available for the previous year.  
   b. The changes in the length of the road esp (PNH/SNH/Access Road)is mainly due to the reclassification of the road done by DoR mainly to fit proper definition.  
   c. Farm road information was collected by DoR from MoAF  
Source: Design Division, Department of Roads, MoWHS, Thimphu.
Table 6.17: Length of Roads by Type and Dzongkhag, Bhutan, June 2018

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>Express-way</th>
<th>Primary National Highway</th>
<th>Secondary National Highway</th>
<th>Dzongkhag Road</th>
<th>Urban Road</th>
<th>Farm Road</th>
<th>Access Road</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
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<td>1.7</td>
<td>261.9</td>
<td>107.1</td>
<td>547.1</td>
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<td>121.5</td>
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<td>643.9</td>
<td>50.4</td>
<td>1001.9</td>
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<td>7.9</td>
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<td>81.0</td>
<td>536.6</td>
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<td>101.7</td>
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<td>750.7</td>
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<td>711.2</td>
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<td>976.5</td>
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Note: 1 No Dzongkhag wise details on Urban and Access road is available except for whole total. (Access roads shall include Private roads and Institutional roads)
2 Dzongkhag roads and Gewog connectivity roads are clubbed together as they have same specification.
Source: Department of Roads, MoWHS, Thimphu.
Table 6.18: Number of Registered Vehicles by Type and Region, (2014- June 2018)

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<th>Region</th>
<th>Heavy</th>
<th>Medium</th>
<th>Light</th>
<th>Two-Wheeler</th>
<th>Power Tiller</th>
<th>TR</th>
<th>EME</th>
<th>Electric Vehicle</th>
<th>Total</th>
<th>Heavy</th>
<th>Medium</th>
<th>Light</th>
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Note: 1 Earth Moving Equipments (EME) include bulldozers, road rollers, pay loaders, excavators, cranes, etc.
a. Excludes vehicles of armed forces.
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<tr>
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<td>25,493 0 0</td>
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<td>Overhead lines (km)</td>
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<td>Underground lines (km)</td>
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<td>Length of LT lines</td>
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### Table 6.20: Consumption of Electricity by Type of Consumer, 2017

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<th>Type of Consumer</th>
<th>Energy Sales (MU)</th>
<th>% of Total Sales</th>
<th>No. of Consumers</th>
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<td>Rural Micro Trade</td>
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<td>Rural Community Lhakhangs</td>
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<td>Urban</td>
<td>133.270</td>
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<td>Religious Institutions</td>
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<td>Commercial</td>
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<td>Agriculture</td>
<td>2.275</td>
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<td>Institutions</td>
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<td>Street Lighting</td>
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<td>Total LV Bulk Consumption</td>
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<td>Total MV Consumption</td>
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<td>Total HV Consumption</td>
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<td><strong>Total consumption (MU)</strong></td>
<td><strong>2185.748</strong></td>
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Source: Department of Hydropower & Power Systems, MoEA and BPC, Thimphu.

### Table 6.21: Percentage of Major Attraction to Bhutan, 2017

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<th>Attractions/Activities</th>
<th>%</th>
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<td>Adventure</td>
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<td>Spiritual and Wellness</td>
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<tr>
<td>Nature</td>
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Note: Includes International Leisure purpose tourist only.

Source: Tourism Council of Bhutan, Thimphu.

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<tr>
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<td>204.00</td>
<td>13.49</td>
<td>3,698.00</td>
</tr>
<tr>
<td>Petroleum Bitumen</td>
<td>5,594.84</td>
<td>260.75</td>
<td>7,563.67</td>
</tr>
<tr>
<td>Others (waste oils)</td>
<td>58.29</td>
<td>1.70</td>
<td>172.03</td>
</tr>
<tr>
<td>Others (containing biodiesel other than waste oils)</td>
<td>1.70</td>
<td>2.51</td>
<td></td>
</tr>
</tbody>
</table>

Note:  
- The codes for Kerosene (S.K Oil) and S.K. Oil (Industrial) has been merged together w.e.f. January 1, 2017
- S.K. Oil (quota) has been renamed as S.K.Oil (subsidy)
- Two types of waste oils falling under BTC Code 2710.91.00 and 2710.99.00 are clubbed together

Source: Bhutan Trade Statistics, DRC, MoF, Thimphu

Table 6.23: Total Ghg Emissions in Bhutan, 2000

<table>
<thead>
<tr>
<th>GHG Sources &amp; Sink</th>
<th>Total(CO2, CH4 and N20), CO2-equiv</th>
<th>CO2</th>
<th>CH4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Energy</td>
<td>270.23</td>
<td>260.31</td>
<td>0.38</td>
</tr>
<tr>
<td>2 Industrial Process</td>
<td>237.76</td>
<td>237.76</td>
<td>0</td>
</tr>
<tr>
<td>3 Solvent &amp; Other Product Use</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4 Agriculture</td>
<td>1005.3</td>
<td>0</td>
<td>25.85</td>
</tr>
<tr>
<td>5 Land-Use Change and Forestry</td>
<td>-6,309.00</td>
<td>-6,309.00</td>
<td>0</td>
</tr>
<tr>
<td>6 Waste</td>
<td>46.27</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Total GHG Emission, excluding LUCF</td>
<td>1559.56</td>
<td>498.07</td>
<td>28.23</td>
</tr>
<tr>
<td>Total GHG Emission, including LUCF</td>
<td>-4750.04</td>
<td>-5810.9</td>
<td>28.23</td>
</tr>
</tbody>
</table>

Source: Second National Communication to the UNFCCC, NEC

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel (HSD)</td>
<td>126,120.29</td>
<td>5,655.31</td>
<td>117,615.80</td>
<td>5,865.98</td>
<td>126,139.40</td>
</tr>
<tr>
<td>Petrol (KL)</td>
<td>30,272.20</td>
<td>1,750.31</td>
<td>31,458.20</td>
<td>1,826.52</td>
<td>33,846.60</td>
</tr>
<tr>
<td>Kerosene (S.K oil)/Industrial</td>
<td>4,966.01</td>
<td>67.38</td>
<td>24.00</td>
<td>1.25</td>
<td>48.00</td>
</tr>
<tr>
<td>S.K. Oil (subsidy)</td>
<td>48.00</td>
<td>0.62</td>
<td>5,685.00</td>
<td>74.74</td>
<td>4,599.00</td>
</tr>
<tr>
<td>S.K. Oil (Industrial)</td>
<td>0.00</td>
<td>0.00</td>
<td>21.00</td>
<td>0.00</td>
<td>21.00</td>
</tr>
<tr>
<td>Kerosene type jet fuel (ATF)</td>
<td>3,168.00</td>
<td>197.09</td>
<td>3,585.00</td>
<td>219.69</td>
<td>3,378.26</td>
</tr>
<tr>
<td>LPG</td>
<td>6719.48</td>
<td>181.77</td>
<td>7,056.18</td>
<td>183.38</td>
<td>7,289.73</td>
</tr>
<tr>
<td>Lubricating Oil</td>
<td>2,573.47</td>
<td>404.56</td>
<td>2,512.93</td>
<td>414.69</td>
<td>3,378.26</td>
</tr>
<tr>
<td>Furnance Oil</td>
<td>721.58</td>
<td>34.03</td>
<td>473.35</td>
<td>22.11</td>
<td>1,302.20</td>
</tr>
<tr>
<td>LDO</td>
<td>204.00</td>
<td>13.49</td>
<td>3,698.00</td>
<td>198.83</td>
<td>136.00</td>
</tr>
<tr>
<td>Petroleum Bitumen</td>
<td>5,594.84</td>
<td>260.75</td>
<td>7,563.67</td>
<td>376.85</td>
<td>11,778.43</td>
</tr>
<tr>
<td>Others (waste oils)</td>
<td>218.28</td>
<td>21.66</td>
<td>172.03</td>
<td>19.65</td>
<td>5.40</td>
</tr>
<tr>
<td>Others (containing biodiesel other than waste oils)</td>
<td>58.29</td>
<td>1.70</td>
<td>2.51</td>
<td>0.48</td>
<td>...</td>
</tr>
</tbody>
</table>

**Note:**
- The codes for Kerosene (S.K Oil) and S.K. Oil (Industrial) have been merged together w.e.f. January 1, 2017.
- S.K. Oil (quota) has been renamed as S.K. Oil (subsidy).
- Two types of waste oils falling under BTC Code 2710.91.00 and 2710.99.00 are clubbed together.

**Source:** Bhutan Trade Statistics, DRC, MoF, Thimphu

## Table 6.23: Total GHG Emissions in Bhutan, 2000

<table>
<thead>
<tr>
<th>GHG Sources &amp; Sink</th>
<th>CO2 -equiv, Giga Grams</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GHG, Giga Grams</td>
</tr>
<tr>
<td></td>
<td>N2O</td>
</tr>
<tr>
<td>2014</td>
<td>270.23</td>
</tr>
<tr>
<td>2015</td>
<td>237.76</td>
</tr>
<tr>
<td>2016</td>
<td>1005.3</td>
</tr>
<tr>
<td>2017</td>
<td>-6,309.00</td>
</tr>
<tr>
<td>Total GHG Emissions, excluding LUCF</td>
<td>1559.56</td>
</tr>
<tr>
<td>Total GHG Emissions, including LUCF</td>
<td>-4750.04</td>
</tr>
</tbody>
</table>

**Source:** Second National Communication to the UNFCCC, NEC
### Table 6.24: PM 10 Concentration (Microgram/m3) for Thimphu Dzongkhag, (2013-2017)

<table>
<thead>
<tr>
<th>Month</th>
<th>2013 (PM 10) mg/m3</th>
<th>2014 (PM 10) mg/m3</th>
<th>2015 (PM 10) mg/m3</th>
<th>2016 (PM 10) ug/m3</th>
<th>2016 (PM 2.5) ug/m3</th>
<th>2016 (Carbon) ng/m3</th>
<th>2017 (PM 10) ug/m3</th>
<th>2017 (PM 2.5) ug/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>City RBP</td>
<td></td>
<td></td>
<td></td>
<td>Royal Thai Pavilion</td>
<td>Royal Thai Pavilion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office roof top</td>
<td></td>
<td></td>
<td></td>
<td>Compound, Thimphu</td>
<td>Compound, Thimphu</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>84.46</td>
<td>66.33</td>
<td>59.65</td>
<td>...</td>
<td>59.07</td>
<td>40.72</td>
<td>6662.84</td>
<td>83.75</td>
</tr>
<tr>
<td>February</td>
<td>100.92</td>
<td>54.47</td>
<td>67.15</td>
<td>33.86</td>
<td>69.16</td>
<td>49.52</td>
<td>7034.20</td>
<td>75.27</td>
</tr>
<tr>
<td>March</td>
<td>98.07</td>
<td>64.87</td>
<td>58.89</td>
<td>48.77</td>
<td>59.22</td>
<td>43.74</td>
<td>5885.06</td>
<td>50.58</td>
</tr>
<tr>
<td>April</td>
<td>76.51</td>
<td>49.56</td>
<td>43.99</td>
<td>44.34</td>
<td>64.34</td>
<td>43.96</td>
<td>5796.46</td>
<td>39.71</td>
</tr>
<tr>
<td>May</td>
<td>51.27</td>
<td>33.84</td>
<td>41.35</td>
<td>29.16</td>
<td>38.99</td>
<td>26.49</td>
<td>...</td>
<td>30.22</td>
</tr>
<tr>
<td>June</td>
<td>39.73</td>
<td>16.06</td>
<td>24.91</td>
<td>23.65</td>
<td>20.08</td>
<td>11.87</td>
<td>...</td>
<td>21.08</td>
</tr>
<tr>
<td>July</td>
<td>27.39</td>
<td>7.56</td>
<td>...</td>
<td>12.58</td>
<td>12.60</td>
<td>8.18</td>
<td>...</td>
<td>13.88</td>
</tr>
<tr>
<td>August</td>
<td>33.01</td>
<td>7.95</td>
<td>...</td>
<td>15.74</td>
<td>15.79</td>
<td>9.79</td>
<td>...</td>
<td>14.89</td>
</tr>
<tr>
<td>September</td>
<td>64.18</td>
<td>18.65</td>
<td>14.84</td>
<td>62.61</td>
<td>21.42</td>
<td>11.78</td>
<td>...</td>
<td>18.74</td>
</tr>
<tr>
<td>October</td>
<td>47.28</td>
<td>21.75</td>
<td>...</td>
<td>31.71</td>
<td>17.53</td>
<td>...</td>
<td>...</td>
<td>26.07</td>
</tr>
<tr>
<td>November</td>
<td>97.24</td>
<td>51.10</td>
<td>35.08</td>
<td>...</td>
<td>59.87</td>
<td>36.86</td>
<td>...</td>
<td>46.39</td>
</tr>
<tr>
<td>December</td>
<td>105.49</td>
<td>57.55</td>
<td>54.63</td>
<td>138.88</td>
<td>74.32</td>
<td>43.74</td>
<td>...</td>
<td>62.75</td>
</tr>
</tbody>
</table>

**Note:**
- a. Due to technical problem PM 10 concentration could not be measured in missing months for the year 2014 & 2015
- b. From 2016, the above data has started to be observed at Climate Observatory.
- c. Carbon data could not be measured due to technical problem with equipments.

**Source:** Climate Change Division, National Environment Commission, Thimphu
Industries cover the whole range of industrial activities carried out by businesses in all fields including mining, manufacturing, wholesale and retail trade, and other service industries. In Bhutan, the industrial sector has until recently played a relatively small role in the economy.

The mining industry in Bhutan is as yet relatively undeveloped. The kingdom has significant deposits of a number of mineral resources, including limestone, coal, graphite, gypsum, slate and dolomite. Most mining activities are limited to relatively small operations, mainly involved in the mining of dolomite, gypsum, limestone, slate, coal, marbles, quartzite and talc.

The manufacturing industry is dominated by a small number of major operators such as the Penden Cement Authority Ltd., the Bhutan Board Products Ltd., Bhutan Carbide and Chemicals Ltd., the Bhutan Ferro Alloys Ltd. and Bhutan Agro Industries Ltd. Besides these, there are a number of other small manufacturing plants concentrated in the food processing activities. Cottage industry also plays a prominent role with its good timber resources and favorable agricultural conditions.

As the industrial sector grows in Bhutan, statistics on industry will become increasingly important. The Department of Industry keeps a record of all industrial licenses and activities. Besides, Censuses of Manufacturing Industries conducted at regular intervals viz. Industrial Census of 1998 and 2001 have been the source of important information on Industries. For example, information on the number of industries in operation, types of industries, and employment in industries etc. presented in this chapter is the results from those Censuses. Most of the existing industrial establishments are small scale or cottage industries.
Table 7.1: Number of Licensed Firms in Production & Manufacturing, Services and Contract by Ownership, Bhutan, (June 2017- June 2018)

<table>
<thead>
<tr>
<th>Industry</th>
<th>June 2017</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sole Propietorship</td>
<td>Partnership</td>
<td>Company</td>
<td></td>
</tr>
<tr>
<td>Production &amp; Manufacturing</td>
<td>1,872</td>
<td>47</td>
<td>192</td>
<td></td>
</tr>
<tr>
<td>Services</td>
<td>14,092</td>
<td>134</td>
<td>268</td>
<td></td>
</tr>
<tr>
<td>Contract</td>
<td>3,202</td>
<td>1</td>
<td>237</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>19,166</td>
<td>182</td>
<td>697</td>
<td></td>
</tr>
</tbody>
</table>

Note: 1 Others includes Government, Dratsang, Schools etc.
Source: Department of Industry, Department of Cottage & Small Industry, MoEA, Thimphu.

Table 7.2: Number of Industrial Establishments by Sector, Bhutan, (2014 - June 2018)

<table>
<thead>
<tr>
<th>Sector</th>
<th>2014</th>
<th>2015</th>
<th>June 2016</th>
<th>June 2017</th>
<th>June 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production &amp; manufacturing</td>
<td>2,823</td>
<td>2,073</td>
<td>1,648</td>
<td>2,125</td>
<td>2,539</td>
</tr>
<tr>
<td>New establishments</td>
<td>335</td>
<td>294</td>
<td>144</td>
<td>445</td>
<td>514</td>
</tr>
<tr>
<td>Existing establishments</td>
<td>2,488</td>
<td>1,779</td>
<td>1,504</td>
<td>1,680</td>
<td>2,025</td>
</tr>
<tr>
<td>Services</td>
<td>26,465</td>
<td>18,067</td>
<td>12,221</td>
<td>14,528</td>
<td>16,446</td>
</tr>
<tr>
<td>New establishments</td>
<td>2,128</td>
<td>790</td>
<td>1,175</td>
<td>2,253</td>
<td>2,693</td>
</tr>
<tr>
<td>Existing establishments</td>
<td>24,337</td>
<td>17,277</td>
<td>11,046</td>
<td>12,275</td>
<td>13,753</td>
</tr>
<tr>
<td>Contract</td>
<td>13,511</td>
<td>4,298</td>
<td>3,135</td>
<td>3,440</td>
<td>3,452</td>
</tr>
<tr>
<td>New establishments</td>
<td>363</td>
<td>31</td>
<td>84</td>
<td>233</td>
<td>318</td>
</tr>
<tr>
<td>Existing establishments</td>
<td>13,148</td>
<td>4,267</td>
<td>3,051</td>
<td>3,207</td>
<td>3,134</td>
</tr>
<tr>
<td>Trade</td>
<td>27,048</td>
<td>31,150</td>
<td>17,759</td>
<td>22,972</td>
<td>21,087</td>
</tr>
<tr>
<td>New registration/establishments</td>
<td>5,092</td>
<td>4,102</td>
<td>2,143</td>
<td>3,767</td>
<td>4,231</td>
</tr>
<tr>
<td>Existing establishments</td>
<td>21,956</td>
<td>27,048</td>
<td>15,616</td>
<td>19,205</td>
<td>16,856</td>
</tr>
<tr>
<td>Entertainment</td>
<td>361</td>
<td>356</td>
<td>412</td>
<td>440</td>
<td>400</td>
</tr>
<tr>
<td>New establishments</td>
<td>79</td>
<td>96</td>
<td>83</td>
<td>34</td>
<td>42</td>
</tr>
<tr>
<td>Existing establishments</td>
<td>282</td>
<td>260</td>
<td>329</td>
<td>406</td>
<td>358</td>
</tr>
<tr>
<td><strong>All sectors</strong></td>
<td>70,208</td>
<td>55,944</td>
<td>35,175</td>
<td>43,505</td>
<td>43,924</td>
</tr>
</tbody>
</table>

Note: a. The figures for P&M, Services and Contract includes all Large, Medium, Cottage and Small Industries
Source: Department of Industry, Department of Cottage & Small Industry, Department of Trade (MoEA) & BIC-MA, Thimphu.
### Table 7.1: Number of Licensed Firms in Production & Manufacturing, Services and Contract by Ownership, Bhutan, (June 2017- June 2018)

<table>
<thead>
<tr>
<th>Industry</th>
<th>June 2017</th>
<th>June 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sole Proprietorship</td>
<td>Partnership</td>
</tr>
<tr>
<td>Production &amp; Manufacturing</td>
<td>1,872</td>
<td>64</td>
</tr>
<tr>
<td>Services</td>
<td>14,092</td>
<td>134</td>
</tr>
<tr>
<td>Contract</td>
<td>3,202</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>19,166</td>
<td>182</td>
</tr>
</tbody>
</table>

Note: Others includes Government, Dratsang, Schools etc.

Source: Department of Industry, Department of Cottage & Small Industry, MoEA, Thimphu.

### Table 7.2: Number of Industrial Establishments by Sector, Bhutan, (2014 - June 2018)

<table>
<thead>
<tr>
<th>Sector</th>
<th>2014</th>
<th>2015</th>
<th>June 2016</th>
<th>June 2017</th>
<th>June 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production &amp; manufacturing</td>
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<td>2,125</td>
<td>2,539</td>
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<td>294</td>
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<td>514</td>
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<td>1,779</td>
<td>1,504</td>
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<td>2,025</td>
</tr>
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<td>16,446</td>
</tr>
<tr>
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<td>790</td>
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<td>2,253</td>
<td>2,693</td>
</tr>
<tr>
<td>Existing establishments</td>
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<td>17,277</td>
<td>11,046</td>
<td>12,275</td>
<td>13,753</td>
</tr>
<tr>
<td>Contract</td>
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<td>3,135</td>
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<td>3,452</td>
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<td>233</td>
<td>318</td>
</tr>
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<td>4,267</td>
<td>3,051</td>
<td>3,207</td>
<td>3,134</td>
</tr>
<tr>
<td>Trade</td>
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<td>31,150</td>
<td>17,759</td>
<td>22,972</td>
<td>21,087</td>
</tr>
<tr>
<td>New registration/establishments</td>
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<td>4,102</td>
<td>2,143</td>
<td>3,767</td>
<td>4,231</td>
</tr>
<tr>
<td>Existing establishments</td>
<td>21,956</td>
<td>27,048</td>
<td>15,616</td>
<td>19,205</td>
<td>16,856</td>
</tr>
<tr>
<td>Entertainment</td>
<td>361</td>
<td>356</td>
<td>412</td>
<td>440</td>
<td>400</td>
</tr>
<tr>
<td>New establishments</td>
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<td>329</td>
<td>406</td>
<td>358</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>70,208</td>
<td>55,944</td>
<td>35,175</td>
<td>43,505</td>
<td>43,924</td>
</tr>
</tbody>
</table>

Note: a. The figures for P&M, Services and Contract includes all Large, Medium, Cottage and Small Industries

Source: Department of Industry, Department of Cottage & Small Industry, Department of Trade (MoEA) & BIC-MA, Thimphu.

### Table 7.3: Number of Contract Firms by Size, by Dzongkhag, Bhutan (June 2017 - June 2018)

<table>
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<th>As of June 2018</th>
</tr>
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<tbody>
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<tr>
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<tr>
<td>Gasa</td>
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<tr>
<td>Haa</td>
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</tr>
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<td>Pema Gatshel</td>
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<td>13</td>
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<tr>
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<td>26</td>
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<td>Zhemgang</td>
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<td>8</td>
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<tr>
<td><strong>Bhutan</strong></td>
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Source: Department of Industry, Department of Cottage & Small Industry, MoEA, Thimphu.
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<table>
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<th>June 2018</th>
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<th>June 2018</th>
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Source: Department of Industry and Department of Cottage & Small Industry, MoEA, Thimphu.
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<th>Total</th>
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<td>Large</td>
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*Source: Department of Industry, Department of Cottage & Small Industry, MoEA, Thimphu.*
### Table 7.6: Number of Industries by Type in Cottage and Small by Dzongkhag, Bhutan (June 2017 & June 2018)

<table>
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<th>Dzongkhag</th>
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<th>As of June 2018</th>
<th>All Types (Total)</th>
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<td>Contract</td>
<td>Production &amp; Manufacturing</td>
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<td>Cottage Small</td>
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<td>131</td>
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<td>61 6</td>
<td>13</td>
<td>865 7 2</td>
</tr>
<tr>
<td>Haa</td>
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<td>98 21</td>
<td>56</td>
<td>225 42 20</td>
</tr>
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<td>Lhuentse</td>
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<td>662 105</td>
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<td>73</td>
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<td>547 97 18</td>
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<td>Trongsa</td>
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<td>257 11</td>
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<td><strong>1,866</strong></td>
<td><strong>15,174 1,626</strong></td>
</tr>
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</table>

*Source: Department of Cottage & Small Industry, MoEA, Thimphu.*
## Table 7.7: Number of Industries by Type in Medium and Large by Dzongkhag, Bhutan (June 2017 - June 2018)

<table>
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<tr>
<th>Dzongkhag</th>
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<th>All</th>
<th>As of June 2018</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Production &amp; Manufacturing</td>
<td>Services</td>
<td>Contract</td>
<td>Others</td>
</tr>
<tr>
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<td></td>
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<td>Based</td>
<td>Based</td>
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</table>

*Source: Department of Industry, MoEA, Thimphu.*
### Table 7.8: Establishments covered by Dzongkhag and Area, Bhutan, 2017

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<th>Dzongkhag</th>
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<th>Total</th>
</tr>
</thead>
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<tr>
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</tr>
<tr>
<td>Haa</td>
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</tr>
<tr>
<td>Lhuentse</td>
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<td>106</td>
<td>227</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>15</td>
<td>64</td>
<td>79</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1,239</td>
<td>3,700</td>
<td>4,939</td>
</tr>
</tbody>
</table>

*Source: Establishment Survey Report, November Edition 2017, MoLHR.*

### Table 7.9: Establishments covered by Trade Region and Area, Bhutan, 2017

<table>
<thead>
<tr>
<th>Region</th>
<th>Rural</th>
<th>Urban</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thimphu</td>
<td>487</td>
<td>2,051</td>
<td>2,538</td>
</tr>
<tr>
<td>Phuentsholing</td>
<td>221</td>
<td>702</td>
<td>923</td>
</tr>
<tr>
<td>Gelephu</td>
<td>78</td>
<td>326</td>
<td>404</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>206</td>
<td>160</td>
<td>366</td>
</tr>
<tr>
<td>Monggar</td>
<td>154</td>
<td>214</td>
<td>368</td>
</tr>
<tr>
<td>Trongsa</td>
<td>93</td>
<td>247</td>
<td>340</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1,239</td>
<td>3,700</td>
<td>4,939</td>
</tr>
</tbody>
</table>

*Source: Establishment Survey Report, November Edition 2017, MoLHR.*
Table 7.10: Establishments covered by Trade Region and Sector, Bhutan, 2017

<table>
<thead>
<tr>
<th>Sector</th>
<th>Construction</th>
<th>Education &amp; Training</th>
<th>ICT</th>
<th>Production</th>
<th>Services</th>
<th>Tourism</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thimphu region</td>
<td>102</td>
<td>100</td>
<td>173</td>
<td>219</td>
<td>1,567</td>
<td>377</td>
<td>2,538</td>
</tr>
<tr>
<td>Phuentsholing region</td>
<td>28</td>
<td>17</td>
<td>79</td>
<td>125</td>
<td>607</td>
<td>67</td>
<td>923</td>
</tr>
<tr>
<td>Gelephu region</td>
<td>17</td>
<td>7</td>
<td>34</td>
<td>27</td>
<td>287</td>
<td>32</td>
<td>404</td>
</tr>
<tr>
<td>Samdrup region</td>
<td>18</td>
<td>8</td>
<td>31</td>
<td>61</td>
<td>211</td>
<td>37</td>
<td>366</td>
</tr>
<tr>
<td>Trongsa region</td>
<td>24</td>
<td>10</td>
<td>11</td>
<td>59</td>
<td>234</td>
<td>30</td>
<td>368</td>
</tr>
<tr>
<td>Total</td>
<td>233</td>
<td>142</td>
<td>339</td>
<td>530</td>
<td>3,089</td>
<td>606</td>
<td>4,939</td>
</tr>
</tbody>
</table>

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.11: Establishments covered by Trade Region and Scale, Bhutan, 2017

<table>
<thead>
<tr>
<th>Region</th>
<th>Cottage</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thimphu</td>
<td>1,609</td>
<td>718</td>
<td>179</td>
<td>32</td>
<td>2,538</td>
</tr>
<tr>
<td>Phuentsholing</td>
<td>620</td>
<td>224</td>
<td>63</td>
<td>16</td>
<td>923</td>
</tr>
<tr>
<td>Gelephu</td>
<td>324</td>
<td>67</td>
<td>13</td>
<td>0</td>
<td>404</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>273</td>
<td>79</td>
<td>7</td>
<td>7</td>
<td>366</td>
</tr>
<tr>
<td>Monggar</td>
<td>296</td>
<td>64</td>
<td>7</td>
<td>1</td>
<td>368</td>
</tr>
<tr>
<td>Trongsa</td>
<td>273</td>
<td>55</td>
<td>5</td>
<td>7</td>
<td>340</td>
</tr>
<tr>
<td>Total</td>
<td>3,395</td>
<td>1,207</td>
<td>274</td>
<td>63</td>
<td>4,939</td>
</tr>
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</table>

Source: Establishment Survey Report, November Edition 2017, MoLHR.
Table 7.12: Establishment covered by Sector and Scale, Bhutan, 2017

<table>
<thead>
<tr>
<th>Sector</th>
<th>Cottage</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>71</td>
<td>108</td>
<td>39</td>
<td>15</td>
<td>233</td>
</tr>
<tr>
<td>Education &amp; Training</td>
<td>47</td>
<td>60</td>
<td>30</td>
<td>5</td>
<td>142</td>
</tr>
<tr>
<td>ICT</td>
<td>240</td>
<td>80</td>
<td>15</td>
<td>4</td>
<td>339</td>
</tr>
<tr>
<td>Production</td>
<td>269</td>
<td>192</td>
<td>51</td>
<td>18</td>
<td>530</td>
</tr>
<tr>
<td>Services</td>
<td>2,493</td>
<td>518</td>
<td>62</td>
<td>16</td>
<td>3,089</td>
</tr>
<tr>
<td>Tourism</td>
<td>275</td>
<td>249</td>
<td>77</td>
<td>5</td>
<td>606</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,395</strong></td>
<td><strong>1,207</strong></td>
<td><strong>274</strong></td>
<td><strong>63</strong></td>
<td><strong>4,939</strong></td>
</tr>
</tbody>
</table>

Source: Establishment Survey Report, November Edition 2017, MoLHR.

Table 7.13: Establishments covered by Subsector and Scale, Bhutan, 2017

<table>
<thead>
<tr>
<th>Sub-sector</th>
<th>Cottage</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automobile Services</td>
<td>100</td>
<td>151</td>
<td>22</td>
<td>0</td>
<td>273</td>
</tr>
<tr>
<td>Café, Restaurant &amp; bar</td>
<td>1,629</td>
<td>163</td>
<td>4</td>
<td>0</td>
<td>1,796</td>
</tr>
<tr>
<td>Tailoring</td>
<td>187</td>
<td>28</td>
<td>2</td>
<td>0</td>
<td>217</td>
</tr>
<tr>
<td>Hair &amp; beauty</td>
<td>229</td>
<td>17</td>
<td>1</td>
<td>0</td>
<td>247</td>
</tr>
<tr>
<td>Other services</td>
<td>347</td>
<td>159</td>
<td>33</td>
<td>16</td>
<td>555</td>
</tr>
<tr>
<td>Tour operator</td>
<td>103</td>
<td>57</td>
<td>14</td>
<td>0</td>
<td>174</td>
</tr>
<tr>
<td>Hotels &amp; resorts</td>
<td>172</td>
<td>192</td>
<td>63</td>
<td>5</td>
<td>432</td>
</tr>
<tr>
<td>Pre-primary/primary education</td>
<td>22</td>
<td>29</td>
<td>4</td>
<td>0</td>
<td>55</td>
</tr>
<tr>
<td>Secondary education</td>
<td>2</td>
<td>4</td>
<td>16</td>
<td>0</td>
<td>22</td>
</tr>
<tr>
<td>Tertiary education</td>
<td>1</td>
<td>0</td>
<td>6</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>Training provider</td>
<td>22</td>
<td>27</td>
<td>4</td>
<td>0</td>
<td>53</td>
</tr>
<tr>
<td>Film &amp; media</td>
<td>75</td>
<td>35</td>
<td>4</td>
<td>2</td>
<td>116</td>
</tr>
<tr>
<td>ICT repair &amp; services</td>
<td>166</td>
<td>45</td>
<td>11</td>
<td>2</td>
<td>224</td>
</tr>
<tr>
<td>Production-others</td>
<td>79</td>
<td>80</td>
<td>21</td>
<td>12</td>
<td>192</td>
</tr>
<tr>
<td>Production-wood &amp; furniture related</td>
<td>138</td>
<td>82</td>
<td>18</td>
<td>1</td>
<td>239</td>
</tr>
<tr>
<td>Production-food related</td>
<td>52</td>
<td>30</td>
<td>12</td>
<td>5</td>
<td>99</td>
</tr>
<tr>
<td>Hydro construction</td>
<td>0</td>
<td>4</td>
<td>7</td>
<td>13</td>
<td>24</td>
</tr>
<tr>
<td>Non-hydro construction</td>
<td>71</td>
<td>104</td>
<td>32</td>
<td>2</td>
<td>209</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,395</strong></td>
<td><strong>1,207</strong></td>
<td><strong>274</strong></td>
<td><strong>63</strong></td>
<td><strong>4,939</strong></td>
</tr>
</tbody>
</table>

Source: Establishment Survey Report, November Edition 2017, MoLHR.
### Table 7.14: Establishments covered by type of Organization and Scale, Bhutan, 2017

<table>
<thead>
<tr>
<th>Type of Organization</th>
<th>Cottage</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sole proprietorship</td>
<td>3,295</td>
<td>1,063</td>
<td>189</td>
<td>7</td>
<td>4,554</td>
</tr>
<tr>
<td>Partnership</td>
<td>52</td>
<td>42</td>
<td>12</td>
<td>1</td>
<td>107</td>
</tr>
<tr>
<td>Private Limited Company</td>
<td>23</td>
<td>54</td>
<td>33</td>
<td>11</td>
<td>121</td>
</tr>
<tr>
<td>Government Owned Company</td>
<td>7</td>
<td>2</td>
<td>16</td>
<td>26</td>
<td>51</td>
</tr>
<tr>
<td>FDI/Foreign based company</td>
<td>2</td>
<td>9</td>
<td>14</td>
<td>15</td>
<td>40</td>
</tr>
<tr>
<td>NGO/CSO</td>
<td>10</td>
<td>30</td>
<td>7</td>
<td>0</td>
<td>47</td>
</tr>
<tr>
<td>Co-operatives</td>
<td>6</td>
<td>7</td>
<td>3</td>
<td>3</td>
<td>19</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,395</td>
<td>1,207</td>
<td>274</td>
<td>63</td>
<td>4,939</td>
</tr>
</tbody>
</table>

*Source: Establishment Survey Report, November Edition 2017, MoLHR.*

### Table 7.15: Employments covered by Major Economic Activity and Scale, Bhutan, 2017

<table>
<thead>
<tr>
<th>Major Economic Activity</th>
<th>Cottage</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining and Quarrying</td>
<td>6</td>
<td>20</td>
<td>9</td>
<td>3</td>
<td>38</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>512</td>
<td>232</td>
<td>52</td>
<td>18</td>
<td>814</td>
</tr>
<tr>
<td>Electricity and Gas Supply</td>
<td>2</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>Water Supply, Sewerage, Waste Management and Remediation Activities</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Construction</td>
<td>72</td>
<td>112</td>
<td>38</td>
<td>14</td>
<td>236</td>
</tr>
<tr>
<td>Wholesale Trade &amp; Repair of Motor Vehicles</td>
<td>167</td>
<td>169</td>
<td>27</td>
<td>1</td>
<td>364</td>
</tr>
<tr>
<td>Transportation and Storage</td>
<td>9</td>
<td>9</td>
<td>6</td>
<td>1</td>
<td>25</td>
</tr>
<tr>
<td>Accomodation and Food Service Activities</td>
<td>1,804</td>
<td>359</td>
<td>68</td>
<td>5</td>
<td>2,236</td>
</tr>
<tr>
<td>Information and Communication</td>
<td>79</td>
<td>43</td>
<td>4</td>
<td>2</td>
<td>128</td>
</tr>
<tr>
<td>Financial and Insurance Activities</td>
<td>2</td>
<td>5</td>
<td>1</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>Real Estate Activities</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Professional, Scientific and Technical Activities</td>
<td>126</td>
<td>33</td>
<td>2</td>
<td>1</td>
<td>162</td>
</tr>
<tr>
<td>Tour Operator &amp; Other Support Services Activities</td>
<td>153</td>
<td>76</td>
<td>19</td>
<td>0</td>
<td>248</td>
</tr>
<tr>
<td>Education</td>
<td>43</td>
<td>60</td>
<td>29</td>
<td>5</td>
<td>137</td>
</tr>
<tr>
<td>Human Health and Social Work Activities</td>
<td>9</td>
<td>20</td>
<td>4</td>
<td>0</td>
<td>33</td>
</tr>
<tr>
<td>Arts, Entertainment and Recreation</td>
<td>10</td>
<td>7</td>
<td>4</td>
<td>1</td>
<td>22</td>
</tr>
<tr>
<td>Others Services Activities</td>
<td>399</td>
<td>51</td>
<td>4</td>
<td>0</td>
<td>454</td>
</tr>
<tr>
<td>Activities of Extraterritorial Organizations</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,395</td>
<td>1,207</td>
<td>274</td>
<td>63</td>
<td>4,939</td>
</tr>
</tbody>
</table>

*Source: Establishment Survey Report, November Edition 2017, MoLHR.*
An efficient road system for a landlocked country assumes paramount importance as it plays a crucial role in supporting all development activities and in stimulating domestic and international trade. The first appearance of motor vehicle was in 1962 and surface transport continues to be the main means of transport. The Bhutan Government Transport Service (BGTS) originally entrusted with goods transportation was restructured to concentrate on passenger transport. The gradual privatization of the passenger transport services began in 1985 on pilot basis and was achieved fully by October 1991 with 21 operators managing a fleet of more than 100 buses on 73 routes. As of June 2017, there were 88,227 registered vehicles in Bhutan.

The Government, in order to promote and develop the surface transport, with emphasis on safety, formulated the Roads Safety and Transport Act, which became operational since October 1997. In the last 27 years, tremendous achievements were made in establishing 6920.10 kilometers of motorable roads and several motorable bridges. In the difficult areas where the construction of motorable road has not yet begun, suspension bridges provide the vital transport links. Today, the Department of Roads under the Ministry of Works and Human Settlements is responsible for the design and planning of roads and in setting standards for quality.

Druk Air, the national airline was founded in April 1981 and was commercialized in February 1983. It is a Government owned airline run by the Druk Holding Investment. Bhutan established its first international air links with Kolkata, followed by six destinations in South Asia, including Bangkok. The Division of Civil Aviation was established in January 1986 to provide infrastructure and air traffic services and to regulate the airline industry and it became the member of ICAO (International Civil Aviation Organization). The Paro International Airport inaugurated on 10th April 1999 has taken the air transport sectors further ahead in providing reliable, safe and comfortable travel services. Druk Air Corporation Limited also introduced domestic flights to Bumthang, Younphula (Trashigang) and to Gelephu (Sarpang) in 2011.

Tashi Air Pvt. Ltd, Bhutan’s first Private Airline came into existence after the Tashi Group of Companies, outbid other joint ventures companies and won the License to operate Airline Service both Domestic and International Sectors. On 4th December 2011, Tashi Group of Companies introduced its first aircraft Bhutan Airline for domestic operations. It started its international operation on 10th October 2013. Later on 1st of May 2014, Bhutan Airlines started its fleet with new Airbus A319 with 122 seating capacity.

Since the establishment of first telephone network in 1963 the ICT sector has come a long way. Telecommunication network has changed from physical wire network to a national digital network today. Bhutan’s first satellite international link was established in 1990 with the
installation of the Earth satellite station and an international gateway switch in Thimphu. By March 1999 all the 20 district headquarters had access to telecommunication services.

The national telecommunication network opened the path to global information network. On 2nd June 1999, the country established the first television network and also started the Internet Services. Since then, the information and communication technology such as Internet provides access to global information and plays an important role in the everyday affairs. Bhutan Telecom Limited (BTL) is the leading provider of telecommunications and Internet services in the Kingdom of Bhutan. Besides fixed line telephony, it provides GSM Mobile services under its flagship brand B-Mobile, and Internet Services under the brand name of DrukNet which was launched on 11th November 2003 coinciding with His Majesty Fourth Druk Gyalpo’s Birthday. Later, Tashi InfoComm Limited, Bhutan’s first private mobile company came into existence on October 2006. Now, B-mobile and TashiCell has its services available in all 20 Dzongkhags.

The Postal Service in Bhutan was first launched on 10th October 1962 with the opening of a post office in Phuentsholing. It was called the Department of Posts and Telegraphs under the Ministry of Communications. Initially, the services offered were basic services such as letter mail, postcards and parcels. International mail was only exchanged with India. On 1st October 1996, The Division of Posts and Telegraphs was converted to autonomous Commercial Corporation as Bhutan Post. Bhutan became a member of the Universal Postal Union (UPU) and member of the Asian Pacific Postal Union (APPU) in 1983.

Today, there are in total 88 postal infrastructures in the country. Its portfolio of services also developed and improved over time and an International Express Mail Service (EMS) was introduced in July 1993. Express mail services were introduced into the domestic sector in 1966. Money order services were improved with the introduction of Facsimile Money Order for Bhutan and Express Money Order (EMO) for exchange with India. In 1997, Bhutan Post set up a transport network for the purpose of carrying both passenger and mail. This network presently covers between Thimphu and Phuentsholing and between Phuentsholing and Calcutta.
### Table 8.1: Number and Length of Motorable Bridges by Type, Bhutan, June 2018

*(Length in m)*

<table>
<thead>
<tr>
<th>Type of Bridges</th>
<th>Number</th>
<th>%</th>
<th>Length</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Permanent bridges</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RCT Beam / T-Girder/Box Grid</td>
<td>75</td>
<td>20.8</td>
<td>1,591.20</td>
<td>12.5</td>
</tr>
<tr>
<td>RCC Slab</td>
<td>29</td>
<td>8.0</td>
<td>507.45</td>
<td>4.0</td>
</tr>
<tr>
<td>Pre-Stressed Concrete</td>
<td>21</td>
<td>5.8</td>
<td>1,210.00</td>
<td>9.5</td>
</tr>
<tr>
<td>RCC Arch</td>
<td>4</td>
<td>1.1</td>
<td>383.00</td>
<td>3.0</td>
</tr>
<tr>
<td>Composite</td>
<td>20</td>
<td>5.5</td>
<td>384.00</td>
<td>3.0</td>
</tr>
<tr>
<td>Steel Pony Truss</td>
<td>5</td>
<td>1.4</td>
<td>265.00</td>
<td>2.1</td>
</tr>
<tr>
<td>Steel Arch</td>
<td>11</td>
<td>3.0</td>
<td>1,059.25</td>
<td>8.3</td>
</tr>
<tr>
<td>Steel Hamilton</td>
<td>8</td>
<td>2.2</td>
<td>280.60</td>
<td>2.2</td>
</tr>
<tr>
<td>Steel Truss / Girder</td>
<td>20</td>
<td>5.5</td>
<td>1,241.40</td>
<td>9.7</td>
</tr>
<tr>
<td>Multicell Box Culvert</td>
<td>6</td>
<td>1.7</td>
<td>304.00</td>
<td>2.4</td>
</tr>
<tr>
<td>RCC bridges on GC Roads</td>
<td>5</td>
<td>1.4</td>
<td>57.00</td>
<td>0.4</td>
</tr>
<tr>
<td><strong>Temporary (semi-permanent) bridges</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bailey Bridges</td>
<td>84</td>
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<td>20.2</td>
</tr>
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<td>231.71</td>
<td>1.8</td>
</tr>
<tr>
<td>Bailey Bridges on Farm Roads in various Dzongkhags</td>
<td>14</td>
<td>3.9</td>
<td>451.21</td>
<td>3.5</td>
</tr>
<tr>
<td>Bailey bridges on GC &amp; Farm Roads in various Dzongkhags (2011 &amp; 2012)</td>
<td>19</td>
<td>5.3</td>
<td>719.51</td>
<td>5.6</td>
</tr>
<tr>
<td>Bailey bridges on GC &amp; Farm Roads in various Dzongkhags (2012 &amp; 2013)</td>
<td>14</td>
<td>3.9</td>
<td>478.66</td>
<td>3.7</td>
</tr>
<tr>
<td>Bailey bridges on GC &amp; Farm Roads in various Dzongkhags (2013)</td>
<td>13</td>
<td>3.6</td>
<td>469.51</td>
<td>3.7</td>
</tr>
<tr>
<td>Bailey &amp; Bailey Suspension Bridges on GC Roads (2015-June 2018)</td>
<td>11</td>
<td>3.0</td>
<td>564.02</td>
<td>4.4</td>
</tr>
<tr>
<td><strong>All bridges</strong></td>
<td>361</td>
<td>100</td>
<td>12,777.36</td>
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</table>

*Source: Bridge Division, DoR, MoWHS, Thimphu.*
### Table 8.2: Number of Pedestrian Bridges Constructed Since 5th Five Year Plan by Dzongkhag, June 2018

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>IV &amp; Before</th>
<th>V</th>
<th>VI</th>
<th>VII</th>
<th>VIII</th>
<th>IX</th>
<th>X</th>
<th>XI</th>
<th>Total Constructed (I-XI)</th>
<th>Percent (I-XI)</th>
<th>Existing Bridge as of present</th>
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<td>1</td>
<td>7</td>
<td>3</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>20</td>
<td>3.66</td>
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<td>18</td>
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<td>Chhukha</td>
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<td>3</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>1</td>
<td>23</td>
<td>4.21</td>
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<td>29</td>
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<td>1</td>
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<td>15</td>
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<td>4</td>
<td>4</td>
<td>6</td>
<td>5</td>
<td>2</td>
<td>30</td>
<td>5.49</td>
<td>20</td>
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<td>5</td>
<td>6</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>41</td>
<td>7.51</td>
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<tr>
<td>Paro</td>
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<td>2</td>
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<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>17</td>
<td>3.10</td>
<td>14</td>
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<tr>
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<td>11</td>
<td>6</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>7</td>
<td>3</td>
<td>43</td>
<td>7.88</td>
<td>26</td>
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<tr>
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<td>15</td>
<td>2</td>
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<td>4</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>41</td>
<td>7.51</td>
<td>32</td>
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<td>1</td>
<td>28</td>
<td>5.13</td>
<td>18</td>
<td>18</td>
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<td>4</td>
<td>18</td>
<td>3.30</td>
<td>13</td>
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<td>10</td>
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<td>4</td>
<td>7</td>
<td>7</td>
<td>2</td>
<td>1</td>
<td>41</td>
<td>7.51</td>
<td>30</td>
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<tr>
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<td>3</td>
<td>7</td>
<td>3</td>
<td>29</td>
<td>5.31</td>
<td>25</td>
</tr>
<tr>
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<td>6</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>23</td>
<td>4.21</td>
</tr>
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<td>2</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>16</td>
<td>2.93</td>
<td>13</td>
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<td>10</td>
<td>5</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>2</td>
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<td>25</td>
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<td>5</td>
<td>6</td>
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<td>3</td>
<td>32</td>
<td>5.86</td>
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<td><strong>130</strong></td>
<td><strong>54</strong></td>
<td><strong>61</strong></td>
<td><strong>65</strong></td>
<td><strong>65</strong></td>
<td><strong>67</strong></td>
<td><strong>25</strong></td>
<td><strong>546</strong></td>
<td><strong>100.00</strong></td>
<td><strong>420</strong></td>
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</table>

*Source: Suspension Bridge Section, Bridge Division, Department of Roads, MoWHS, Thimphu.*
Table 8.3: Number of Driving Licenses Issued by Region, Bhutan, (2013 - June 2018)

<table>
<thead>
<tr>
<th>Region</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
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<tr>
<td>Thimphu</td>
<td>46,588</td>
<td>49,159</td>
<td>52,134</td>
<td>56,007</td>
<td>60,213</td>
<td>63,052</td>
</tr>
<tr>
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<td>9,902</td>
<td>10,689</td>
<td>11,676</td>
<td>12,884</td>
<td>14,364</td>
<td>15,306</td>
</tr>
<tr>
<td>Gelephu</td>
<td>11,002</td>
<td>12,225</td>
<td>13,351</td>
<td>14,466</td>
<td>15,786</td>
<td>16,515</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>8,496</td>
<td>9,048</td>
<td>9,492</td>
<td>10,018</td>
<td>10,684</td>
<td>10,993</td>
</tr>
<tr>
<td>Monggar</td>
<td>...</td>
<td>134</td>
<td>681</td>
<td>1,260</td>
<td>1,975</td>
<td>2,336</td>
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<tr>
<td>PDL (Professional Driving Licence)</td>
<td>15,022</td>
<td>15,404</td>
<td>16,424</td>
<td>16,734</td>
<td>17,086</td>
<td>17,332</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>91,010</strong></td>
<td><strong>96,659</strong></td>
<td><strong>103,745</strong></td>
<td><strong>111,369</strong></td>
<td><strong>120,108</strong></td>
<td><strong>125,534</strong></td>
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</table>

Note: a. The total driving license for the year 2015 was less with 13 because of cancellation
Source: Road Safety and Transport Authority, MOIC, Thimphu.
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>International</td>
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<tr>
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<td>10,764</td>
<td>13,908</td>
<td>13,452</td>
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<td>8,323</td>
<td>10,516</td>
<td>13,374</td>
<td>13,064</td>
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<td>28,984</td>
<td>27,971</td>
<td>27,573</td>
<td>29,907</td>
</tr>
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<td>Bangkok to Paro</td>
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<td>27,296</td>
<td>25,946</td>
<td>27,851</td>
<td>29,101</td>
</tr>
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<td>4,595</td>
<td>6,918</td>
<td>7,907</td>
<td>8,649</td>
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<td>4,886</td>
<td>7,169</td>
<td>7,993</td>
<td>9,057</td>
</tr>
<tr>
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<td>18,667</td>
<td>18,280</td>
<td>22,713</td>
<td>23,684</td>
<td>31,267</td>
</tr>
<tr>
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<td>17,840</td>
<td>18,242</td>
<td>22,591</td>
<td>24,481</td>
<td>29,888</td>
</tr>
<tr>
<td>Paro to Kathmandu</td>
<td>18,721</td>
<td>21,515</td>
<td>11,792</td>
<td>13,912</td>
<td>20,889</td>
</tr>
<tr>
<td>Kathmandu to Paro</td>
<td>19,133</td>
<td>21,604</td>
<td>12,155</td>
<td>13,898</td>
<td>21,102</td>
</tr>
<tr>
<td>Kathmandu to Delhi</td>
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<td>2,255</td>
<td>2,172</td>
<td>1,601</td>
<td>1,590</td>
</tr>
<tr>
<td>Delhi to Kathmandu</td>
<td>1,390</td>
<td>464</td>
<td>1,211</td>
<td>736</td>
<td>594</td>
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<tr>
<td>Kolkata to Bangkok</td>
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<td>899</td>
<td>1,926</td>
<td>1,536</td>
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<tr>
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<td>Dhaka to Bangkok</td>
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<td>701</td>
<td>468</td>
<td>399</td>
<td>375</td>
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<td>390</td>
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<td>891</td>
<td>877</td>
<td>777</td>
<td>1,305</td>
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<td>2,560</td>
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<td>2,141</td>
<td>2,658</td>
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<td>1,231</td>
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<td>1,768</td>
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<td>Guwahati to Bangkok</td>
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<td>1,840</td>
<td>2,259</td>
<td>2,003</td>
<td>1,675</td>
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<td>1,599</td>
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<td>1,577</td>
<td>1,586</td>
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<td>6,170</td>
<td>7,105</td>
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<td>3,877</td>
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</table>
| Paro to Munbai    | ...   | 3,187| 2,040| 915  | 2,214|**cont...**
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<td>Mumbai to Paro</td>
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<td>915</td>
<td>2,084</td>
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<td>3,510</td>
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<td>138</td>
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<td>Gelephu to Paro</td>
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<tr>
<td>Gelephu to Bumthang</td>
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<td>...</td>
<td>...</td>
<td>81</td>
<td>...</td>
</tr>
<tr>
<td>Bumthang to Gelephu</td>
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<td>...</td>
<td>...</td>
<td>75</td>
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</tr>
<tr>
<td><strong>Total Passengers</strong></td>
<td><strong>210,891</strong></td>
<td><strong>213,345</strong></td>
<td><strong>209,422</strong></td>
<td><strong>233,570</strong></td>
<td><strong>266,533</strong></td>
</tr>
<tr>
<td><strong>Revenue (Nu.in millions)</strong></td>
<td><strong>2,976.00</strong></td>
<td><strong>2,837.00</strong></td>
<td><strong>2,698.00</strong></td>
<td><strong>2,860.00</strong></td>
<td><strong>3,526.45</strong></td>
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*Note:* Revenue includes only total operating revenues.
*Source: Druk Air Corporation Ltd., Thimphu.*
### Table 8.5: Number of Flights Made by Druk Air by International and Domestic by Area of Operation, (2013-2017)

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**Note:** Total number of flights includes both the Aircrafts AB 319 and ATR 42.

**Source:** Druk Air Corporation Ltd., Thimphu.
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<td><strong>Total Passengers</strong></td>
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<td>86,084</td>
<td>88,766</td>
<td>111,076</td>
<td>90,424</td>
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<tr>
<td><strong>Revenue (Nu. in millions)</strong></td>
<td>51.71</td>
<td>864.13</td>
<td>1,039</td>
<td>1,418</td>
<td>1,691</td>
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*Note:* Revenue includes only total operating revenues.

*Source:* Bhutan Airlines Corporation Ltd., Thimphu.
Table 8.7: Number of Flights Made by Tashi Air by International and by Area of Operation, (2013-2017)

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<td>334</td>
<td>328</td>
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<td>370</td>
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<td>...</td>
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<td>152</td>
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<td>...</td>
<td>8</td>
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Note: Flights includes Scheduled, Additional and Chartered Flights.
Source: Bhutan Airlines Corporation Ltd., Thimphu.

Table 8.8: Type of Helicopter Services and Number of Flights Made, 2017

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### Table 8.9: Number of Telephone Connection Capacity by Dzongkhag, (2013-2017)

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<th>2016</th>
<th>2017</th>
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<td><strong>23,823</strong></td>
<td><strong>21,811</strong></td>
<td><strong>21,081</strong></td>
<td><strong>21,364</strong></td>
</tr>
</tbody>
</table>

*Source: Bhutan Infocom Media Authority, Thimphu.*
Table 8.10: Number of Telephone Trunk Circuits, Bhutan, June 2018

<table>
<thead>
<tr>
<th>Sector</th>
<th>Type of Connection</th>
<th>No. of Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thimphu Softswitch- USA (TELCO)</td>
<td>N°7</td>
<td>123</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu Bmobile</td>
<td>N°7</td>
<td>337</td>
</tr>
<tr>
<td>Thimphu Softswitch- Phuentsholing (NEC)</td>
<td></td>
<td>No trunk circuits</td>
</tr>
<tr>
<td>Thimphu Softswitch- Samtse (NEC)</td>
<td></td>
<td>No trunk circuits</td>
</tr>
<tr>
<td>Thimphu Softswitch- Wangdue (E10)</td>
<td></td>
<td>No trunk circuits</td>
</tr>
<tr>
<td>Thimphu Softswitch- Singapore (SINGTEL)</td>
<td>N°7</td>
<td>26</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thailand (CAT Telecom)</td>
<td>N°7</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu Tashicell (National trunk)</td>
<td>N°7</td>
<td>246</td>
</tr>
<tr>
<td>Thimphu Softswitch- Bangladesh (MIRT)</td>
<td>N°7</td>
<td>29</td>
</tr>
<tr>
<td>Thimphu Softswitch- Nepal (NTC)</td>
<td>N°7</td>
<td>31</td>
</tr>
<tr>
<td>Thimphu Softswitch- Samdrupjongkhar (Corvan)</td>
<td></td>
<td>No trunk circuits</td>
</tr>
<tr>
<td>Thimphu Softswitch- London (British Telecom)</td>
<td></td>
<td>No trunk circuits</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu Tashicell International</td>
<td>N°7</td>
<td>123</td>
</tr>
<tr>
<td>Thimphu Softswitch- India (BSNL Chennai)</td>
<td>N°7</td>
<td>122</td>
</tr>
<tr>
<td>Thimphu Softswitch- India (BSNL Delhi)</td>
<td>N°7</td>
<td>122</td>
</tr>
<tr>
<td>Thimphu Softswitch- India (Airtel Chennai)</td>
<td>N°7</td>
<td>91</td>
</tr>
<tr>
<td>Thimphu Softswitch- India (Airtel Delhi)</td>
<td>N°7</td>
<td>122</td>
</tr>
<tr>
<td>Thimphu Softswitch- India (RELIANCE)</td>
<td>N°7</td>
<td>61</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu Druk Air (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu BPC (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu BOB CC (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu NRDCL (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu BT EPBAX (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu RBP (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu UNDP (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu LAND COMMISSION (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu BHUTAN HOTEL (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu DCCL (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu MoH (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu BTL (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Paro LE MERIDIEN (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu Bhutan Post (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu G2C (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu BoB (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu NPPF (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch- Thimphu BNB (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
</tbody>
</table>

cont...
### Table 8.10 cont...

<table>
<thead>
<tr>
<th>Sector</th>
<th>Type of Connection</th>
<th>No. of Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thimphu Softswitch- Thimphu RICBL (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-PRA DRC (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Thimphu DGPC (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Phuntsholing DGPC (PRA)</td>
<td>PRA link</td>
<td>30</td>
</tr>
<tr>
<td>Thimphu Softswitch-Japan (KDDi) (VoIP)</td>
<td>VoIP</td>
<td>120</td>
</tr>
<tr>
<td>Thimphu Softswitch-Japan (KDDi) (ONLY JAPAN) (VoIP)</td>
<td>VoIP</td>
<td>4</td>
</tr>
<tr>
<td>Thimphu Softswitch- CAT Telecom (VoIP)</td>
<td>VoIP</td>
<td>80</td>
</tr>
<tr>
<td>Thimphu Softswitch- USA (TELCO) (VoIP)</td>
<td>VoIP</td>
<td>60</td>
</tr>
<tr>
<td>Thimphu Softswitch- MIR Telecom (VoIP)</td>
<td>VoIP</td>
<td>60</td>
</tr>
<tr>
<td>Thimphu Softswitch- GET A CALL (VoIP)</td>
<td>VoIP</td>
<td>100</td>
</tr>
<tr>
<td>Thimphu Softswitch-Bmobile SIP Thimphu</td>
<td>VoIP</td>
<td>1000</td>
</tr>
<tr>
<td>Thimphu Softswitch-Bmobile SIP Kanglung</td>
<td>VoIP</td>
<td>1000</td>
</tr>
<tr>
<td>Thimphu Softswitch-TATA_SINGAPORE GSX A</td>
<td>VoIP</td>
<td>300</td>
</tr>
<tr>
<td>Thimphu Softswitch-TATA_SINGAPORE GSX B</td>
<td>VoIP</td>
<td>300</td>
</tr>
<tr>
<td>Trongsa - Zhemgang (corDECT)</td>
<td>No trunk circuits</td>
<td></td>
</tr>
<tr>
<td>Trongsa - Zhemgang (corVAN)</td>
<td>No trunk circuits</td>
<td></td>
</tr>
<tr>
<td>Trongsa - Phuntsholing (NEC)</td>
<td>No trunk circuits</td>
<td></td>
</tr>
<tr>
<td>Phuentsholing - Samtse</td>
<td>No trunk circuits</td>
<td></td>
</tr>
<tr>
<td><strong>Total trunk lines (National, International and DAMA)</strong></td>
<td></td>
<td><strong>5,147</strong></td>
</tr>
</tbody>
</table>

*Source: Bhutan Infocom Media Authority, Thimphu.*
Table 8.11: Number of Trunk Lines, Connection Capacities, Sets in Use & Mobile Subscribers, (2013-2017)

<table>
<thead>
<tr>
<th>Details</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trunk lines</td>
<td>3,392</td>
<td>2,906</td>
<td>2,314</td>
<td>2,434</td>
<td>2,242</td>
</tr>
<tr>
<td>Satellite Communications</td>
<td>871</td>
<td>783</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>International Lines</td>
<td>871</td>
<td>783</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Digital Microwave</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Digital Radio Concentrator System</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>DRMASS</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>VOIP (International)</td>
<td>...</td>
<td>264</td>
<td>424</td>
<td>424</td>
<td>424</td>
</tr>
<tr>
<td>SDH</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Connection capacity</td>
<td>48,534</td>
<td>48,534</td>
<td>44,192</td>
<td>44,144</td>
<td>43,368</td>
</tr>
<tr>
<td>Telephone sets in use</td>
<td>26,485</td>
<td>26,952</td>
<td>21,460</td>
<td>21,081</td>
<td>21,364</td>
</tr>
<tr>
<td>B-Mobile Subscribers</td>
<td>406,353</td>
<td>454,543</td>
<td>486,228</td>
<td>475,373</td>
<td>475,394</td>
</tr>
<tr>
<td>Internet (B-mobile)</td>
<td>197,458</td>
<td>250,907</td>
<td>337,969</td>
<td>375,007</td>
<td>438,307</td>
</tr>
<tr>
<td>3G</td>
<td>112,119</td>
<td>181,585</td>
<td>337,969</td>
<td>375,007</td>
<td>438,307</td>
</tr>
<tr>
<td>GPRS/EDGE</td>
<td>85,339</td>
<td>69,322</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Internet (Druknet)</td>
<td>20,630</td>
<td>25,204</td>
<td>28,037</td>
<td>16,753</td>
<td>15,921</td>
</tr>
<tr>
<td>Broadband</td>
<td>20,391</td>
<td>24,904</td>
<td>27,606</td>
<td>16,172</td>
<td>15,323</td>
</tr>
<tr>
<td>Leased Line</td>
<td>239</td>
<td>300</td>
<td>431</td>
<td>581</td>
<td>598</td>
</tr>
</tbody>
</table>

Note:  
a. Digital Radio Concentrator System, DRMASS, and SDH systems has been removed therefore no figures on these.  
b. The source also cannot provide data on Digital Microwave due to system migration (SAP) at BTL.  
c. Trunk lines are inclusive of international trunk lines  
d. Earlier the Telecom use to have a parameter (REGSER-12) in MSC to segregate 3G users and 2G users but then it was removed from system by Ericsson. By default all b-mobile users are 3G although we have 2G user.  

Source: Bhutan Infocom Media Authority, Thimpu.
### Table 8.12: Number of Telephone Trunk Calls and Revenue Earnings, Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Type of Call</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic calls</td>
<td>27,790,081</td>
<td>16,744,884</td>
<td>16,156,253</td>
<td>15,014,226</td>
<td>15,977,980</td>
</tr>
<tr>
<td>International</td>
<td>918,797</td>
<td>588,679</td>
<td>441,089</td>
<td>377,738</td>
<td>332,676</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>779,853</td>
<td>495,364</td>
<td>375,266</td>
<td>325,722</td>
<td>291,204</td>
</tr>
<tr>
<td>Other</td>
<td>138,944</td>
<td>93,315</td>
<td>65,823</td>
<td>52,016</td>
<td>41,472</td>
</tr>
<tr>
<td>All calls</td>
<td>28,708,878</td>
<td>17,333,563</td>
<td>16,597,342</td>
<td>15,391,964</td>
<td>16,310,656</td>
</tr>
<tr>
<td>Revenue earnings</td>
<td>108</td>
<td>98</td>
<td>93</td>
<td>102</td>
<td>95</td>
</tr>
</tbody>
</table>

Note: Revenue Earnings are Revenue from Telephone Trunk Calls only
Source: Bhutan Infocom Media Authority, Thimphu.

### Table 8.13: Number of B-Mobile Trunk Calls and Revenue Earnings, Bhutan, (2013 - 2017)

<table>
<thead>
<tr>
<th>Type of Call</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total no. of subscribers</td>
<td>406,353</td>
<td>454,543</td>
<td>486,228</td>
<td>475,373</td>
<td>475,394</td>
</tr>
<tr>
<td>Domestic calls</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>International calls</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>India</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Other</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Mobile/GPRS subscribers</td>
<td>85,339</td>
<td>69,322</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Mobile 3G</td>
<td>112,119</td>
<td>181,585</td>
<td>337,969</td>
<td>375,007</td>
<td>438,307</td>
</tr>
<tr>
<td>Revenue earnings</td>
<td>2,328</td>
<td>2,305</td>
<td>2,691</td>
<td>3,038</td>
<td>3,194</td>
</tr>
</tbody>
</table>

Note: a. Since the Bhutan telecom Ltd. did not have data recording system, they have no data for the past years, will be available only by February 2014.
   b. Revenue Earnings are revenue from three services (mobile, Internet and FL)
Source: Bhutan Infocom Media Authority, Thimphu.
Table 8.14: Number of Tashicell Trunk Calls and Revenue Earnings, Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Type of Call</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total no. of subscribers</td>
<td>139,589</td>
<td>161,993</td>
<td>189,805</td>
<td>223,266</td>
<td>255,229</td>
</tr>
<tr>
<td>Domestic calls</td>
<td>65,016,115</td>
<td>19,307,646</td>
<td>74,013,660</td>
<td>151,060,457</td>
<td>86,250,668</td>
</tr>
<tr>
<td>International calls</td>
<td>8,186,128</td>
<td>6,805,167</td>
<td>6,004,497</td>
<td>10,107,815</td>
<td>7,402,851</td>
</tr>
<tr>
<td>India</td>
<td>7,776,822</td>
<td>6,540,465</td>
<td>5,800,733</td>
<td>...</td>
<td>7,230,994</td>
</tr>
<tr>
<td>Others</td>
<td>409,306</td>
<td>264,702</td>
<td>203,764</td>
<td>...</td>
<td>171,857</td>
</tr>
<tr>
<td>GPRS/EDGE/3G</td>
<td>21,022</td>
<td>74,595</td>
<td>119,893</td>
<td>177,668</td>
<td>206,068</td>
</tr>
</tbody>
</table>

Revenue earnings (Nu. In Million)

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>482.70</td>
<td>750.70</td>
<td>918.47</td>
<td>27.71</td>
<td>88.00</td>
</tr>
</tbody>
</table>

Note:  
  a. The figures mentioned here for the domestic and international calls are counts not minutes of calls.
  b. And the figures includes both prepaid and postpaid calls made.
Source: Tashi Infocomm Ltd., Thimphu.

Table 8.15: Number of Postal Infrastructures, (2013-2017)

<table>
<thead>
<tr>
<th>Postal Infrastructure</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Post Offices</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Post Offices</td>
<td>39</td>
<td>39</td>
<td>36</td>
<td>37</td>
<td>39</td>
</tr>
<tr>
<td>Community Mail Offices</td>
<td>41</td>
<td>41</td>
<td>35</td>
<td>34</td>
<td>6</td>
</tr>
<tr>
<td>Fax Offices</td>
<td>44</td>
<td>44</td>
<td>41</td>
<td>41</td>
<td>39</td>
</tr>
<tr>
<td>Total</td>
<td>128</td>
<td>128</td>
<td>116</td>
<td>116</td>
<td>88</td>
</tr>
</tbody>
</table>

Note:  
  a. WT.Stations are merged with Telecommunication Division since July 1995, includes 3 stations installed at New Delhi, Dhaka and Kalingpong.
  b. Fax Offices are Post Offices having facsimile services, they are not different establishment.
Source: Bhutan Postal Corp. Ltd., Thimphu.
Table 8.16: Volume of Mail, by Type of Article, (2013-2017)

<table>
<thead>
<tr>
<th>Type of Service</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Domestic Mail</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ordinary Mail</td>
<td>362,529</td>
<td>306,070</td>
<td>102,168</td>
<td>129,817</td>
<td>66,635</td>
</tr>
<tr>
<td>Registered</td>
<td>95,436</td>
<td>89,956</td>
<td>73,990</td>
<td>64,083</td>
<td>...</td>
</tr>
<tr>
<td>Parcel</td>
<td>1,668</td>
<td>1,033</td>
<td>680</td>
<td>210</td>
<td>...</td>
</tr>
<tr>
<td>Facsimile message</td>
<td>1,724</td>
<td>2,666</td>
<td>3,124</td>
<td>1,989</td>
<td>879</td>
</tr>
<tr>
<td>Newspapers</td>
<td>10,179</td>
<td>9,903</td>
<td>16,379</td>
<td>15,570</td>
<td>...</td>
</tr>
<tr>
<td>Local Urgent Mail (LUM)</td>
<td>176,278</td>
<td>145,787</td>
<td>145,684</td>
<td>152,391</td>
<td>24,004</td>
</tr>
<tr>
<td>Express mail service (EMS)</td>
<td>9,812</td>
<td>10,496</td>
<td>12,574</td>
<td>26,148</td>
<td>27,872</td>
</tr>
<tr>
<td><strong>International Mail Dispatch</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ordinary Mail</td>
<td>39,097</td>
<td>60,239</td>
<td>22,367</td>
<td>18,190</td>
<td>5,450</td>
</tr>
<tr>
<td>Registered</td>
<td>7,371</td>
<td>6,985</td>
<td>6,539</td>
<td>6,033</td>
<td>5,750</td>
</tr>
<tr>
<td>Parcel</td>
<td>69</td>
<td>56</td>
<td>168</td>
<td>110</td>
<td>50</td>
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<tr>
<td>FedEx</td>
<td>558</td>
<td>355</td>
<td>305</td>
<td>394</td>
<td>322</td>
</tr>
<tr>
<td>Facsimile message</td>
<td>164</td>
<td>183</td>
<td>108</td>
<td>18</td>
<td>...</td>
</tr>
<tr>
<td>Post Overnight Courier (POC)</td>
<td>2,816</td>
<td>2,786</td>
<td>884</td>
<td>2,888</td>
<td>973</td>
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<tr>
<td>Express mail service (EMS)</td>
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<td>2,589</td>
<td>3,648</td>
<td>4,748</td>
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</tr>
<tr>
<td>Ordinary Mail</td>
<td>283,732</td>
<td>246,223</td>
<td>170,436</td>
<td>246,640</td>
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<tr>
<td>Registered</td>
<td>6,773</td>
<td>8,040</td>
<td>13,289</td>
<td>38,628</td>
<td>75,428</td>
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<tr>
<td>Parcel</td>
<td>1,002</td>
<td>2,185</td>
<td>2,176</td>
<td>2,615</td>
<td>3,136</td>
</tr>
<tr>
<td>FedEx</td>
<td>1,635</td>
<td>1,101</td>
<td>1,492</td>
<td>3,588</td>
<td>1,890</td>
</tr>
<tr>
<td>Facsimile message</td>
<td>192</td>
<td>228</td>
<td>75</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Post Overnight Courier (POC)</td>
<td>1,101</td>
<td>2,291</td>
<td>2,047</td>
<td>1,952</td>
<td>859</td>
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<tr>
<td>Express mail service (EMS)</td>
<td>5,033</td>
<td>6,087</td>
<td>7,564</td>
<td>8,078</td>
<td>7,278</td>
</tr>
<tr>
<td><strong>Revenue Earnings (Nu. in million)</strong></td>
<td>125.53</td>
<td>115.40</td>
<td>123.19</td>
<td>152.26</td>
<td>...</td>
</tr>
<tr>
<td><strong>Total mail items</strong></td>
<td>1,013,282</td>
<td>905,259</td>
<td>483,652</td>
<td>724,090</td>
<td>227,531</td>
</tr>
</tbody>
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*Source: Bhutan Postal Corp. Ltd, Thimphu.*
Table 8.17: Financial Services, Number and Value of Money Order by Type, Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Type</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total money orders</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of orders</td>
<td>50,757</td>
<td>33,906</td>
<td>21,609</td>
<td>14,619</td>
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</tr>
<tr>
<td>Amount of orders</td>
<td>144,995,795</td>
<td>81,468,850</td>
<td>88,445,927</td>
<td>52,872,362</td>
<td></td>
</tr>
<tr>
<td><strong>Domestic money order</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of orders</td>
<td>48,917</td>
<td>32,165</td>
<td>18,889</td>
<td>13,363</td>
<td></td>
</tr>
<tr>
<td>Amount of orders</td>
<td>131,017,148</td>
<td>65,421,740</td>
<td>53,303,329</td>
<td>39,783,948</td>
<td>18,472,135</td>
</tr>
<tr>
<td><strong>International money order</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dispatched</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Number of orders</td>
<td>614</td>
<td>1,740</td>
<td>2,720</td>
<td>1,256</td>
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<tr>
<td>Amount of orders</td>
<td>21,126,154</td>
<td>16,046,110</td>
<td>35,142,589</td>
<td>13,088,414</td>
<td>11,904,046</td>
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<tr>
<td><strong>Receipts</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of orders</td>
<td>27</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Amount of orders</td>
<td>237,000</td>
<td>1,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of pensioners</td>
<td>1,632</td>
<td>1,723</td>
<td>1,833</td>
<td>1,839</td>
<td>1,441</td>
</tr>
<tr>
<td>Amount of pensioners</td>
<td>47,144,228</td>
<td>53,471,807</td>
<td>56,065,814</td>
<td>57,171,344</td>
<td>49,182,092</td>
</tr>
</tbody>
</table>

**WUMT Receipts**

| Numbers                     | 13,450         | 16,295         | 22,189         | 31,634         | 39,966         |
| Amount (USD)                | 6,800,000      | 7,516,253.49   | 9,943,621.00   | 14,279,136.00  | 1,125,306,451.00|

**WUMT Sent**

| Numbers                     | 1,433          | 1,310          | 1,389          | 973            | 170            |
| Amount (USD)                | 300,000        | 420,030.38     | 568,883.43     | 268,718.00     | 2,379,722.00   |

*Source: Bhutan Postal Corp. Ltd, Thimphu.*
### Table 8.18: Volume of Mail, by Type of Article, DHL, (2013-2017)

<table>
<thead>
<tr>
<th>Type of Service</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inbound</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Documents (DOX)</td>
<td>6,214</td>
<td>7,871</td>
<td>5,760</td>
<td>5,200</td>
<td>5,820</td>
</tr>
<tr>
<td>World wide Express (WPX)</td>
<td>1,716</td>
<td>3,511</td>
<td>2,592</td>
<td>2,100</td>
<td>2,510</td>
</tr>
<tr>
<td><strong>Outbound</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Documents (DOX)</td>
<td>2,909</td>
<td>5,349</td>
<td>2,753</td>
<td>2,550</td>
<td>2,725</td>
</tr>
<tr>
<td>World wide Express (WPX)</td>
<td>539</td>
<td>4,613</td>
<td>426</td>
<td>432</td>
<td>498</td>
</tr>
<tr>
<td><strong>Revenue Earnings (Nu. In million)</strong></td>
<td>6.53</td>
<td>222.60</td>
<td>20.10</td>
<td>19.10</td>
<td>19.80</td>
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<tr>
<td><strong>Total mail items</strong></td>
<td>11,378</td>
<td>21,344</td>
<td>11,531</td>
<td>10,282</td>
<td>11,553</td>
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</tbody>
</table>

*Source: DHL Courier Service, Thimphu.*
Electricity is the main energy source of lighting in 99 percent of households in Bhutan as per the Bhutan Living Standard Survey (BLSS) 2017. It is also the most widely used sources of energy for cooking with 94.9 percent households. Electricity generation, though still relatively small in comparison with the rest of the world is growing in importance. Up until recently, electricity generation was based on small diesel generating and micro hydro stations, providing limited supply of electricity, which was supplemented by imports from India. The economy of the country is largely dependent on the development of Hydropower generations. Hydropower plants contribute significantly to the overall GDP Growth and economy, both during constructions and operation phases. With the commissioning of the first two units of Chhukha Hydro Projects in 1986, and the other two units in 1988 Bhutan substantially increased its electricity generation and became a significant exporter of electricity to India. The revenue earned from export of electricity is a significant contributor to the overall revenues of the kingdom.

The Chhukha Hydro power with the installed capacity of 336 MW, the Kurichu Hydro power with 60 MW and Basochu Hydro Power with 64 MW generated 1,883.18 MU, 389.56 MU and 338.98 MU respectively in 2017. With the commissioning of mega Tala Hydro Power Project with the installed capacity of 1,020 MW, there is a substantial increase in the energy generation of the country. In 2017, the total electricity generation was 7,729.77 Million Unit (MU). Domestic consumption of electricity has been marginal but should increase with the ongoing emphasis on Rural Electrification Programs. Other forms of energy such as the solar, wind and biomass energy are being explored.

Electricity Generation by Power Station, 2017

- THPA
- Chhukha Hydro Power 1,883
- Kurichu Hydro Power 467.5
- Dagachi Hydro Power 1,798
- Basochu-I Hydro Power 216
- Basochu-II Hydro Power 123
- Other Hydro Power 11
- Wind Energy 1
- All diesel generations 0

<table>
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<tr>
<th>Million Unit</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>-</td>
<td>1,000</td>
<td>2,000</td>
<td>3,000</td>
<td>4,000</td>
<td>5,000</td>
</tr>
<tr>
<td>Generating Stations</td>
<td>Installed Capacity (No. x MW)</td>
<td>Generating Capacity (MW)</td>
<td>Peak Generation (MW)</td>
<td>Energy Generation (GWh)</td>
<td>Year of Commissioning</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------------</td>
<td>--------------------------</td>
<td>----------------------</td>
<td>-------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td><strong>Large Hydroelectric plants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chhukha</td>
<td>4x84.00</td>
<td>336.000</td>
<td>368.000</td>
<td>1,867.36</td>
<td>1986-88</td>
</tr>
<tr>
<td>Kurichu (Mongar)</td>
<td>4X15.00</td>
<td>60.000</td>
<td>66.400</td>
<td>379.02</td>
<td>2001</td>
</tr>
<tr>
<td>Basochu.1 (W/phodrang)</td>
<td>2X12.00</td>
<td>24.000</td>
<td>24.000</td>
<td>113.21</td>
<td>2002</td>
</tr>
<tr>
<td>Basochu.2 (W/phodrang)</td>
<td>2X20.00</td>
<td>40.000</td>
<td>40.000</td>
<td>199.55</td>
<td>2004</td>
</tr>
<tr>
<td>Tala (Chukha)</td>
<td>6X170.00</td>
<td>1020.000</td>
<td>1122.000</td>
<td>4,821.75</td>
<td>2006-07</td>
</tr>
<tr>
<td>Dagachu (Dagana)</td>
<td>2X63.00</td>
<td>108.000</td>
<td>100.790</td>
<td>350.26</td>
<td>Feb-15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1606.000</td>
<td>1588.000</td>
<td>1721.190</td>
<td>7,731.14</td>
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</tr>
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<td><strong>Mini and Micro Hydels</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jushina (Thimphu)</td>
<td>4x90</td>
<td>...</td>
<td>0.180</td>
<td>0.944</td>
<td>1967</td>
</tr>
<tr>
<td>Hesothingkha (Wangdue)</td>
<td>3x100</td>
<td>...</td>
<td>0.070</td>
<td>0.377</td>
<td>1972</td>
</tr>
<tr>
<td>Chenari (Tashigang)</td>
<td>3x250</td>
<td>...</td>
<td>0.000</td>
<td>0.000</td>
<td>1972</td>
</tr>
<tr>
<td>Gidakom (Thimphu)</td>
<td>5x250</td>
<td>...</td>
<td>0.630</td>
<td>4.919</td>
<td>1973</td>
</tr>
<tr>
<td>Khalanzi (Mongar)</td>
<td>3x130</td>
<td>...</td>
<td>0.000</td>
<td>0.000</td>
<td>1976</td>
</tr>
<tr>
<td>Chumey (Bumthang)</td>
<td>3x500</td>
<td>...</td>
<td>0.000</td>
<td>0.000</td>
<td>1988</td>
</tr>
<tr>
<td>Gangzur (Lhuentsse)</td>
<td>2x60</td>
<td>...</td>
<td>0.050</td>
<td>0.419</td>
<td>2000</td>
</tr>
<tr>
<td>Rukubji (Wangdue)</td>
<td>1x40</td>
<td>...</td>
<td>0.555</td>
<td>1986-87</td>
<td>1x40</td>
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<tr>
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<td>0.000</td>
<td>-do-</td>
</tr>
<tr>
<td>Sherabling (Trongsa)</td>
<td>1x50</td>
<td>...</td>
<td>0.000</td>
<td>0.000</td>
<td>-do-</td>
</tr>
<tr>
<td>Bubja (Trongsa)</td>
<td>1x30</td>
<td>...</td>
<td>0.000</td>
<td>0.000</td>
<td>-do-</td>
</tr>
<tr>
<td>Tamzhing (Bumthang)</td>
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<td>...</td>
<td>0.015</td>
<td>-do-</td>
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<td>...</td>
<td>0.159</td>
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<td>-do-</td>
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<td>-do-</td>
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<td>1996</td>
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<td>Sengor (Mongar)</td>
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<td>...</td>
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<td>0.013</td>
<td>2007</td>
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<tr>
<td><strong>Total</strong></td>
<td>8098.000</td>
<td>...</td>
<td>2.372</td>
<td>16.014</td>
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</tr>
</tbody>
</table>

**Note:** The generating capacity of power plants are not available, so the generating capacity and peak generation from last year (2011) where applicable has been used.

**Source:** Department of Hydropower & Power Systems, MoEA, Thimphu.
### Table 9.1: Hydro Generating Stations and Their Capacities, Bhutan, (2015-2017)

<table>
<thead>
<tr>
<th>Generating Stations</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
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</thead>
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<td>Installed</td>
<td>Generating</td>
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<td>Energy</td>
</tr>
<tr>
<td></td>
<td>(MW)</td>
<td>Capacity</td>
<td>Generation</td>
<td>Generation</td>
</tr>
<tr>
<td></td>
<td>(GWh)</td>
<td>(MW)</td>
<td>(GWh)</td>
<td>(GWh)</td>
</tr>
<tr>
<td>Large Hydroelectric plants</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chhukha</td>
<td>4X84.00</td>
<td>360.000</td>
<td>368.000</td>
<td>1,867.36</td>
</tr>
<tr>
<td>Kurichu (Mongar)</td>
<td>4X15.00</td>
<td>60.000</td>
<td>60.000</td>
<td>1929.682</td>
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<tr>
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<td>113.21</td>
</tr>
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<td>40.000</td>
<td>40.000</td>
<td>199.55</td>
</tr>
<tr>
<td>Talha (Chukha)</td>
<td>6X170.00</td>
<td>1020.000</td>
<td>1122.000</td>
<td>4,821.75</td>
</tr>
<tr>
<td>Dagachu (Dagana)</td>
<td>2X63</td>
<td>108.000</td>
<td>118.000</td>
<td>374.232</td>
</tr>
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<td>Mini and Micro Hydels</td>
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</tr>
<tr>
<td>Jushina (Thimphu)</td>
<td>4x90</td>
<td>0.180</td>
<td>0.944</td>
<td>1967</td>
</tr>
<tr>
<td>Hesothangkha (Wangdue)</td>
<td>3x100</td>
<td>0.070</td>
<td>0.377</td>
<td>1972</td>
</tr>
<tr>
<td>Chenari (T ashigang)</td>
<td>3x250</td>
<td>0.000</td>
<td>0.000</td>
<td>1972</td>
</tr>
<tr>
<td>Gidakom (Thimphu)</td>
<td>5x250</td>
<td>0.630</td>
<td>4.919</td>
<td>1973</td>
</tr>
<tr>
<td>Khalanzi (Mongar)</td>
<td>3x130</td>
<td>0.000</td>
<td>0.000</td>
<td>1976</td>
</tr>
<tr>
<td>Chumey (Bumthang)</td>
<td>3x500</td>
<td>0.000</td>
<td>0.000</td>
<td>1988</td>
</tr>
<tr>
<td>Gangzur (Lhuentse)</td>
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**Note:** The generating capacity of power plants are not available, so the generating capacity and peak generation from last year (2011) where applicable has been used.

**Source:** Department of Hydropower & Power Systems, MoEA, Thimphu.
Table 9.2: Details of Diesel Generator Sets, Bhutan, 2017

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<th>Total Capacity (kVA)</th>
<th>Energy Generated (KWh)</th>
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*Source: Department of Hydropower & Power Systems, MoEA, Thimphu.*
<table>
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<th>220 kV (km)</th>
<th>132 kV (km)</th>
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<td>78.48 4430</td>
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<td>16.86 840</td>
<td>40.64 2090</td>
<td>35.12 1860</td>
<td>32.04 1640</td>
<td>67.16 3700</td>
<td>35.12 1860</td>
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<td>45.31 2400</td>
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</tr>
<tr>
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<td>48.47 2620</td>
<td>117.41 6470</td>
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<td>68.94 3850</td>
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<td>0.00 0</td>
<td>0.00 0</td>
<td>0.00 0</td>
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<td>0.00 0</td>
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<td>480.87 2760</td>
<td>480.12 27200</td>
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<td>231.25 12720</td>
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Note: a. Internal refers to the sale of energy by BPC only.
### Table 9.5: Monthly Revenue From Sale of Energy From Tala Power Plant, (2014-2017)

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<th>2017</th>
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<td>Total</td>
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**Note:**
- Internal refers to the sale of energy by BPC only.

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<th>2015</th>
<th>2016</th>
<th>2017</th>
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<tbody>
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<td></td>
<td>Export</td>
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<td>Export</td>
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*Note: Internal refers to the sale of energy by BPC only.*

*Source: Department of Hydropower & Power Systems, MoEA, Thimphu.*

(Nu. in Million)

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<th>2016</th>
<th></th>
<th>2017</th>
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Note: Internal refers to the sale of energy by BPC only.

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<th>2016</th>
<th>2017</th>
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<td>52</td>
<td>57</td>
<td>55</td>
<td>51</td>
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<td>3,719</td>
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Note: Number of towns have been modified from BPC

Source: Department of Hydropower & Power Systems, MoEA and BPC, Thimphu.
The tourism industry in Bhutan began in 1974. The government agency, erstwhile Bhutan Tourism Corporation, controlled tourism until its privatization in 1991. The revenue generation from the tourism sector has increased from over USD 2 million in the late 1980’s to over USD 79.81 million in 2017. The tourism industry in Bhutan enjoyed continued growth rate with the tourist arrivals in the country rising steadily during the 1990s through 2000, while in 2001 there was a comparative decrease in tourist arrivals owing to terrorism and outbreak of SARS. However, the industry saw growing number of international tourist arrival thereafter. In 2008 tourist arrivals had grown significantly than the usual trends owing to the Coronation and the Centenary celebrations where Bhutan had unprecedented media coverage. Also the Smithsonian festival in 2008 also put Bhutan into the international limelight and must have contributed to the growth in numbers.

Bhutan remains a much admired destination throughout the global tourism industry, particularly in the high-end markets. This is attributed to the pristine state of the country’s cultural and natural heritage, which attracts both an affluent and adventurous clientele, political stability and good governance, which ensures equitable and sustainable national development. In 2015, Bhutan celebrated the 60th birth anniversary of His Majesty the Fourth Druk Gyalpo, the Jewel of Bhutan. To commemorate this special year, Bhutan declared 2015 as “Visit Bhutan Year” to allow visitors from all over the world to join in the celebrations of the Bhutanese for a much loved and revered monarch. There is unequal distribution of tourist arrival in Bhutan in terms of time of their visit. Majority of tourist arrivals are in the month of March, April and May. Paro, Thimphu and Punakha received the largest number of tourist in 2017, also recorded maximum bed nights by Dzongkhag. “Culture and Nature” has always been the Unique Selling Proposition (USP) for the tourism industry of Bhutan.

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*Note: Includes only the international leisure tourist*

*Source: Tourism Council of Bhutan, Thimphu.*

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Note: 1 The revenue receipts includes only for the International Tourist.
Source: Tourism Council of Bhutan, Thimphu.
### Table 10.3: Number of Tourist Arrivals by Season and Month, Bhutan, (2013-2017)

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*Note: The total number of tourist arrivals here shows International and Regional Tourist only.
Source: Tourism Council of Bhutan, Thimphu.*

### Table 10.4: Percentage of Tourist Arrivals by Purpose of Visit, Bhutan, 2017

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</tbody>
</table>

*Source: Tourism Council of Bhutan, Thimphu.*
Table 10.5: Total Number of Tourist Arrivals by Dzongkhag, 2017

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>No. of visitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bumthang</td>
<td>11,321</td>
</tr>
<tr>
<td>Chhukha</td>
<td>3,276</td>
</tr>
<tr>
<td>Dagana</td>
<td>10</td>
</tr>
<tr>
<td>Gasa</td>
<td>693</td>
</tr>
<tr>
<td>Haa</td>
<td>5,225</td>
</tr>
<tr>
<td>Lhuntse</td>
<td>2,036</td>
</tr>
<tr>
<td>Monggar</td>
<td>51,831</td>
</tr>
<tr>
<td>Paro</td>
<td>61,523</td>
</tr>
<tr>
<td>Pema Gatshel</td>
<td>71</td>
</tr>
<tr>
<td>Punakha</td>
<td>51,831</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>1,682</td>
</tr>
<tr>
<td>Samtse</td>
<td>0</td>
</tr>
<tr>
<td>Sarpang</td>
<td>284</td>
</tr>
<tr>
<td>Thimphu</td>
<td>59,164</td>
</tr>
<tr>
<td>Trashi Yangtse</td>
<td>705</td>
</tr>
<tr>
<td>Trashigang</td>
<td>1,886</td>
</tr>
<tr>
<td>Trongsa</td>
<td>5,956</td>
</tr>
<tr>
<td>Tsirang</td>
<td>27</td>
</tr>
<tr>
<td>Wangdue Phodrang</td>
<td>17,781</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>259</td>
</tr>
</tbody>
</table>

Note: Includes only the international leisure tourist.
Source: Tourism Council of Bhutan, Thimphu.

Table 10.6: Percent of Top Ten Markets by Gender, Bhutan, 2017

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Sex</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>% Male</td>
</tr>
<tr>
<td>Australia</td>
<td>39.4</td>
</tr>
<tr>
<td>China</td>
<td>35.7</td>
</tr>
<tr>
<td>Germany</td>
<td>48.2</td>
</tr>
<tr>
<td>Japan</td>
<td>49.8</td>
</tr>
<tr>
<td>Malaysia</td>
<td>39.8</td>
</tr>
<tr>
<td>Singapore</td>
<td>33.9</td>
</tr>
<tr>
<td>South Korea</td>
<td>34.9</td>
</tr>
<tr>
<td>Thailand</td>
<td>29.7</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>46.4</td>
</tr>
<tr>
<td>United States</td>
<td>41.2</td>
</tr>
</tbody>
</table>

Source: Tourism Council of Bhutan, Thimphu.
Table 10.7: Total Number of Accommodation Providers by Bed Nights by Dzongkhag, 2017

<table>
<thead>
<tr>
<th>Dzongkhag</th>
<th>Bed Nights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bumthang</td>
<td>28,942</td>
</tr>
<tr>
<td>Chhukha</td>
<td>3,605</td>
</tr>
<tr>
<td>Dagana</td>
<td>15</td>
</tr>
<tr>
<td>Gasa</td>
<td>3,733</td>
</tr>
<tr>
<td>Haa</td>
<td>6,727</td>
</tr>
<tr>
<td>Lhuntse</td>
<td>990</td>
</tr>
<tr>
<td>Monggar</td>
<td>3,124</td>
</tr>
<tr>
<td>Paro</td>
<td>140,571</td>
</tr>
<tr>
<td>Pema Gatshel</td>
<td>199</td>
</tr>
<tr>
<td>Punakha</td>
<td>73,179</td>
</tr>
<tr>
<td>Samdrup Jongkhar</td>
<td>1,840</td>
</tr>
<tr>
<td>Samtse</td>
<td>0</td>
</tr>
<tr>
<td>Sarpang</td>
<td>403</td>
</tr>
<tr>
<td>Thimphu</td>
<td>106,271</td>
</tr>
<tr>
<td>Trashi Yangtse</td>
<td>894</td>
</tr>
<tr>
<td>Trashigang</td>
<td>3,408</td>
</tr>
<tr>
<td>Trongsa</td>
<td>6,548</td>
</tr>
<tr>
<td>Tsirang</td>
<td>33</td>
</tr>
<tr>
<td>Wangdue Phodrang</td>
<td>26,333</td>
</tr>
<tr>
<td>Zhemgang</td>
<td>702</td>
</tr>
</tbody>
</table>

*Note: Includes only the International leisure tourist.*

*Source: Tourism Council of Bhutan, Thimphu.*
Table 10.8: Comparision of Top Ten Ranking of International Markets for the year 2015, 2016 and 2017, Bhutan

<table>
<thead>
<tr>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>China</td>
<td>America</td>
</tr>
<tr>
<td>USA</td>
<td>USA</td>
<td>China</td>
</tr>
<tr>
<td>Thailand</td>
<td>Japan</td>
<td>South Korea</td>
</tr>
<tr>
<td>UK</td>
<td>Thailand</td>
<td>Singapore</td>
</tr>
<tr>
<td>Singapore</td>
<td>UK</td>
<td>Thailand</td>
</tr>
<tr>
<td>Germany</td>
<td>Singapore</td>
<td>Britain</td>
</tr>
<tr>
<td>Japan</td>
<td>Germany</td>
<td>Germany</td>
</tr>
<tr>
<td>Australia</td>
<td>Malaysia</td>
<td>Malaysia</td>
</tr>
<tr>
<td>France</td>
<td>Australia</td>
<td>Japan</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Taiwan</td>
<td>Australia</td>
</tr>
</tbody>
</table>

Source: Tourism Council of Bhutan, Thimphu.
The importance of foreign trade statistics is instrumental in gauging the overall economic performance in relation with other countries. Foreign Trade Statistics are vital to the policy maker, the economic planner and the public in general. The data related to merchandise is being compiled by the Department of Revenue and Custom, Ministry of Finance and the services by the Royal Monetary Authority of Bhutan.

Balance of Payments statistics are designed to show the difference between the total payments made to foreign countries and the total receipts from foreign countries. Thus, it provides systematic summary of economic transaction, for a specific time period, between an economy and the rest of the world. The transactions included goods, services, income, transfers and financial claims. Balance of payments statistics in Bhutan are compiled by the Royal Monetary Authority based on information from its own accounts and those of the Banks, together with information on imports and exports.
### Table 11.1: Balance of Trade, Bhutan, (2013 - 2017) (Nu. in Million)

<table>
<thead>
<tr>
<th>Trade</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exports</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>28,979.16</td>
<td>31,801.44</td>
<td>31,801.35</td>
<td>32,052.00</td>
<td>31,618.00</td>
</tr>
<tr>
<td>Third Countries</td>
<td>2,873.82</td>
<td>3,783.55</td>
<td>3,427.97</td>
<td>3,206.00</td>
<td>5,679.00</td>
</tr>
<tr>
<td><strong>Imports</strong></td>
<td>53,272.99</td>
<td>56,884.54</td>
<td>68,037.32</td>
<td>67,360.00</td>
<td>66,996.00</td>
</tr>
<tr>
<td>India</td>
<td>43,889.37</td>
<td>47,847.62</td>
<td>53,740.50</td>
<td>55,285.00</td>
<td>53,973.00</td>
</tr>
<tr>
<td>Third Countries</td>
<td>9,383.62</td>
<td>9,036.92</td>
<td>14,296.82</td>
<td>12,075.00</td>
<td>13,023.00</td>
</tr>
<tr>
<td><strong>Balance of trade</strong></td>
<td><strong>(21,420.01)</strong></td>
<td><strong>(21,299.55)</strong></td>
<td><strong>(32,808.00)</strong></td>
<td><strong>(32,102.00)</strong></td>
<td><strong>(29,699.00)</strong></td>
</tr>
<tr>
<td>India</td>
<td>(14,910.21)</td>
<td>(16,046.18)</td>
<td>(21,939.15)</td>
<td>(23,233.00)</td>
<td>(22,355.00)</td>
</tr>
<tr>
<td>Third Countries</td>
<td>(6,509.80)</td>
<td>(5,253.37)</td>
<td>(10,868.85)</td>
<td>(8,869.00)</td>
<td>(7,344.00)</td>
</tr>
</tbody>
</table>

**Notes**: Figures within bracket indicate deficit (-).

**Source**: Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.

### Table 11.2: Top Ten Commodities of Export, Bhutan, 2017

<table>
<thead>
<tr>
<th>Commodity Description</th>
<th>Value (Nu in Million)</th>
<th>Percent share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Containing by weight more than 55% of silicon</td>
<td>9,662.23</td>
<td>54.41</td>
</tr>
<tr>
<td>Neither crushed nor ground</td>
<td>1,330.18</td>
<td>7.49</td>
</tr>
<tr>
<td>Portland pozzolana cement</td>
<td>1,245.37</td>
<td>7.01</td>
</tr>
<tr>
<td>Other, of rectangular (other than square) cross-section</td>
<td>1,051.39</td>
<td>5.92</td>
</tr>
<tr>
<td>Dolomite, not calcined or sintered, chips</td>
<td>1,049.27</td>
<td>5.91</td>
</tr>
<tr>
<td>Of calcium</td>
<td>859.78</td>
<td>4.84</td>
</tr>
<tr>
<td>Of silicon</td>
<td>704.58</td>
<td>3.97</td>
</tr>
<tr>
<td>Boulders</td>
<td>690.07</td>
<td>3.89</td>
</tr>
<tr>
<td>Ordinary portland cement</td>
<td>587.97</td>
<td>3.31</td>
</tr>
<tr>
<td>Of other plastics</td>
<td>578.74</td>
<td>3.26</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17,759.57</strong></td>
<td><strong>100.00</strong></td>
</tr>
</tbody>
</table>

**Source**: Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.
**Table 11.3: Top Ten Commodities of Import, Bhutan, 2017**

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Value (Nu. in Million)</th>
<th>Percent share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other light oils and preparations (HSD)</td>
<td>6,648.56</td>
<td>32.91</td>
</tr>
<tr>
<td>Motor spirit (gasolene) including aviation spirit (petrol)</td>
<td>1,969.39</td>
<td>9.75</td>
</tr>
<tr>
<td>Ferrous products obtained by direct reduction of iron ore</td>
<td>1,845.53</td>
<td>9.14</td>
</tr>
<tr>
<td>Parts, including regulators</td>
<td>1,802.02</td>
<td>8.92</td>
</tr>
<tr>
<td>Semi-milled or wholly milled rice, whether or not polished or glazed</td>
<td>1,677.41</td>
<td>8.30</td>
</tr>
<tr>
<td>Machinery with a 360 degree revolving superstructure</td>
<td>1,489.81</td>
<td>7.38</td>
</tr>
<tr>
<td>Coke and semi-coke</td>
<td>1,370.51</td>
<td>6.78</td>
</tr>
<tr>
<td>Other</td>
<td>1,277.97</td>
<td>6.33</td>
</tr>
<tr>
<td>Other apparatus</td>
<td>1,124.32</td>
<td>5.57</td>
</tr>
<tr>
<td>g.v.w. not exceeding 5 tonnes</td>
<td>993.83</td>
<td>4.92</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20,199.35</strong></td>
<td><strong>100.00</strong></td>
</tr>
</tbody>
</table>

*Source: Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.*

**Table 11.4: Country wise Import in Ranking Order, 2017**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Country Name</th>
<th>Value (Nu. in million)</th>
<th>Sl. No.</th>
<th>Country Name</th>
<th>Value (Nu. in million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>India</td>
<td>53,897.73</td>
<td>22</td>
<td>Switzerland</td>
<td>75.21</td>
</tr>
<tr>
<td>2</td>
<td>Korea South</td>
<td>2,593.51</td>
<td>23</td>
<td>France</td>
<td>66.24</td>
</tr>
<tr>
<td>3</td>
<td>Japan</td>
<td>1,656.24</td>
<td>24</td>
<td>Nepal</td>
<td>64.59</td>
</tr>
<tr>
<td>4</td>
<td>China</td>
<td>1,609.89</td>
<td>25</td>
<td>New Zealand</td>
<td>62.03</td>
</tr>
<tr>
<td>5</td>
<td>Thailand</td>
<td>1,262.34</td>
<td>26</td>
<td>Netherlands</td>
<td>60.17</td>
</tr>
<tr>
<td>6</td>
<td>Singapore</td>
<td>1,066.42</td>
<td>27</td>
<td>Indonesia</td>
<td>56.34</td>
</tr>
<tr>
<td>7</td>
<td>Germany</td>
<td>577.33</td>
<td>28</td>
<td>Denmark</td>
<td>52.69</td>
</tr>
<tr>
<td>8</td>
<td>Sweden</td>
<td>496.64</td>
<td>29</td>
<td>Turkey</td>
<td>49.18</td>
</tr>
<tr>
<td>9</td>
<td>United Arab Emirates</td>
<td>372.09</td>
<td>30</td>
<td>Malaysia</td>
<td>48.53</td>
</tr>
<tr>
<td>10</td>
<td>Bangladesh</td>
<td>329.18</td>
<td>31</td>
<td>Australia</td>
<td>37.91</td>
</tr>
<tr>
<td>11</td>
<td>United States of America</td>
<td>224.08</td>
<td>32</td>
<td>Belgium</td>
<td>22.32</td>
</tr>
<tr>
<td>12</td>
<td>United Kingdom</td>
<td>220.77</td>
<td>33</td>
<td>Canada</td>
<td>20.13</td>
</tr>
<tr>
<td>13</td>
<td>Italy</td>
<td>181.75</td>
<td>34</td>
<td>Spain</td>
<td>17.38</td>
</tr>
<tr>
<td>14</td>
<td>Austria</td>
<td>178.96</td>
<td>35</td>
<td>Taiwan</td>
<td>14.11</td>
</tr>
<tr>
<td>15</td>
<td>Hong Kong</td>
<td>154.55</td>
<td>36</td>
<td>Slovakia</td>
<td>12.87</td>
</tr>
<tr>
<td>16</td>
<td>Saudi Arabia</td>
<td>148.22</td>
<td>37</td>
<td>South Africa</td>
<td>11.47</td>
</tr>
<tr>
<td>17</td>
<td>Norway</td>
<td>147.25</td>
<td>38</td>
<td>Cyprus</td>
<td>10.41</td>
</tr>
<tr>
<td>18</td>
<td>Viet Nam</td>
<td>107.26</td>
<td>39</td>
<td>Philippines</td>
<td>7.79</td>
</tr>
<tr>
<td>19</td>
<td>Qatar</td>
<td>103.70</td>
<td>40</td>
<td>Ukraine</td>
<td>6.83</td>
</tr>
<tr>
<td>20</td>
<td>Israel</td>
<td>91.71</td>
<td>41</td>
<td>Brazil</td>
<td>4.45</td>
</tr>
<tr>
<td>21</td>
<td>Finland</td>
<td>85.05</td>
<td>42</td>
<td>Ireland</td>
<td>2.40</td>
</tr>
</tbody>
</table>

**Total** 66,207.72

*Note: Imports value which is less than or equal to Nu. 2,000,000.00 is excluded for computation of import ranking order.*

*Source: Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.*
Table 11.5: Country wise Export in Ranking Order, 2017

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Country Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>India</td>
<td>19,635.36</td>
</tr>
<tr>
<td>2</td>
<td>Bangladesh</td>
<td>3,486.28</td>
</tr>
<tr>
<td>3</td>
<td>Italy</td>
<td>428.20</td>
</tr>
<tr>
<td>4</td>
<td>Netherlands</td>
<td>350.96</td>
</tr>
<tr>
<td>5</td>
<td>Nepal</td>
<td>321.21</td>
</tr>
<tr>
<td>6</td>
<td>Germany</td>
<td>186.79</td>
</tr>
<tr>
<td>7</td>
<td>Hong Kong</td>
<td>138.47</td>
</tr>
<tr>
<td>8</td>
<td>Japan</td>
<td>103.88</td>
</tr>
<tr>
<td>9</td>
<td>Turkey</td>
<td>96.13</td>
</tr>
<tr>
<td>10</td>
<td>Spain</td>
<td>81.83</td>
</tr>
<tr>
<td>11</td>
<td>Singapore</td>
<td>62.99</td>
</tr>
<tr>
<td>12</td>
<td>Switzerland</td>
<td>56.05</td>
</tr>
<tr>
<td>13</td>
<td>Poland</td>
<td>51.64</td>
</tr>
<tr>
<td>14</td>
<td>Viet Nam</td>
<td>50.19</td>
</tr>
<tr>
<td>15</td>
<td>Austria</td>
<td>46.54</td>
</tr>
<tr>
<td>16</td>
<td>United Arab Emirates</td>
<td>35.41</td>
</tr>
<tr>
<td>17</td>
<td>Thailand</td>
<td>33.64</td>
</tr>
<tr>
<td>18</td>
<td>United States of America</td>
<td>29.34</td>
</tr>
<tr>
<td>19</td>
<td>Malaysia</td>
<td>24.53</td>
</tr>
<tr>
<td>20</td>
<td>Sweden</td>
<td>23.68</td>
</tr>
<tr>
<td>21</td>
<td>Belgium</td>
<td>16.81</td>
</tr>
<tr>
<td>22</td>
<td>France</td>
<td>15.26</td>
</tr>
<tr>
<td>23</td>
<td>South Africa</td>
<td>10.58</td>
</tr>
<tr>
<td>24</td>
<td>United Kingdom</td>
<td>9.46</td>
</tr>
<tr>
<td>25</td>
<td>Taiwan</td>
<td>3.50</td>
</tr>
<tr>
<td>26</td>
<td>Qatar</td>
<td>1.87</td>
</tr>
<tr>
<td>27</td>
<td>Mexico</td>
<td>1.84</td>
</tr>
<tr>
<td>28</td>
<td>China</td>
<td>1.46</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>25,303.90</strong></td>
<td></td>
</tr>
</tbody>
</table>

Note: Export value which is less than or equal to Nu. 1,000,000.00 is excluded for computation of export ranking.
Source: Bhutan Trade Statistics, Department of Revenue & Customs, Ministry of Finance.
Table 11.6: Overall Balance of Payments Estimates, Bhutan, FY 2012/13 to 2016/17

<table>
<thead>
<tr>
<th>Item</th>
<th>2012/13</th>
<th>2013/14</th>
<th>2014/15</th>
<th>2015/16</th>
<th>2016/17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Current Account</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exports cif</td>
<td>(25,761.64)</td>
<td>(29,741.96)</td>
<td>(35,655.56)</td>
<td>(43,758.84)</td>
<td>(36,341.51)</td>
</tr>
<tr>
<td>Imports, cif</td>
<td>29,931.47</td>
<td>32,876.57</td>
<td>35,982.17</td>
<td>32,789.32</td>
<td>36,872.02</td>
</tr>
<tr>
<td>Trade balance</td>
<td>(20,708.52)</td>
<td>(24,220.00)</td>
<td>(26,693.29)</td>
<td>(37,481.34)</td>
<td>(31,136.35)</td>
</tr>
<tr>
<td><strong>Services</strong></td>
<td>(2,964.97)</td>
<td>(4,004.42)</td>
<td>(4,276.40)</td>
<td>(4,079.49)</td>
<td>(3,359.26)</td>
</tr>
<tr>
<td>Credit</td>
<td>6,764.61</td>
<td>7,646.23</td>
<td>7,864.41</td>
<td>9,666.68</td>
<td>10,526.01</td>
</tr>
<tr>
<td>Debit</td>
<td>9,729.58</td>
<td>11,650.65</td>
<td>12,140.81</td>
<td>13,746.17</td>
<td>13,885.26</td>
</tr>
<tr>
<td><strong>Primary Income</strong></td>
<td>(9,085.70)</td>
<td>(7,429.59)</td>
<td>(9,737.84)</td>
<td>(11,770.77)</td>
<td>(13,474.78)</td>
</tr>
<tr>
<td>Credit</td>
<td>965.86</td>
<td>1,192.43</td>
<td>1,650.12</td>
<td>1,623.07</td>
<td>1,998.95</td>
</tr>
<tr>
<td>Debit</td>
<td>10,051.56</td>
<td>8,622.03</td>
<td>11,387.96</td>
<td>13,393.84</td>
<td>15,473.73</td>
</tr>
<tr>
<td><strong>Secondary Income</strong></td>
<td>6,997.55</td>
<td>5,912.05</td>
<td>5,051.96</td>
<td>9,572.76</td>
<td>11,628.88</td>
</tr>
<tr>
<td>Credit</td>
<td>8,684.69</td>
<td>7,333.36</td>
<td>6,912.38</td>
<td>11,378.14</td>
<td>13,256.53</td>
</tr>
<tr>
<td>Of Which, Budgetary Grants</td>
<td>4,716.15</td>
<td>3,856.53</td>
<td>4,785.01</td>
<td>8,373.35</td>
<td>6,415.85</td>
</tr>
<tr>
<td>Debit</td>
<td>1,687.14</td>
<td>1,421.31</td>
<td>1,860.41</td>
<td>1,805.38</td>
<td>1,627.65</td>
</tr>
<tr>
<td><strong>B. Capital Account</strong></td>
<td>14,458.99</td>
<td>16,901.74</td>
<td>13,981.04</td>
<td>12,668.05</td>
<td>12,391.57</td>
</tr>
<tr>
<td>o/w Budgetary Grants for Investment</td>
<td>4,698.63</td>
<td>7,541.54</td>
<td>4,408.03</td>
<td>6,114.55</td>
<td>3,532.33</td>
</tr>
<tr>
<td><strong>C. Financial Account</strong></td>
<td>(16,515.96)</td>
<td>(15,347.50)</td>
<td>(22,357.71)</td>
<td>(43,384.04)</td>
<td>(24,236.84)</td>
</tr>
<tr>
<td>Other Investment</td>
<td>(15,398.58)</td>
<td>(13,556.13)</td>
<td>(21,697.16)</td>
<td>(42,851.10)</td>
<td>(25,014.15)</td>
</tr>
<tr>
<td>o/w RGOB loans, net</td>
<td>17,933.72</td>
<td>18,716.19</td>
<td>24,217.70</td>
<td>37,617.48</td>
<td>23,159.30</td>
</tr>
<tr>
<td>o/w Other loans, net</td>
<td>201.35</td>
<td>(5,842.45)</td>
<td>(3,427.79)</td>
<td>6,845.47</td>
<td>1,345.74</td>
</tr>
<tr>
<td><strong>C. Net Errors and Omissions</strong></td>
<td>3,998.86</td>
<td>1,773.22</td>
<td>(1,254.02)</td>
<td>1,452.87</td>
<td>(1,852.19)</td>
</tr>
<tr>
<td><strong>D. Overall balance</strong></td>
<td>9,212.16</td>
<td>4,280.49</td>
<td>(570.83)</td>
<td>13,746.12</td>
<td>(1,565.30)</td>
</tr>
</tbody>
</table>

Note: a. Segregation of budgetary grants into Secondary Income and Capital Transfers carried out from FY 2006/07 onwards. b. Net acquisition of financial assets minus net incurrence of financial liabilities; (+) figure denotes net lending and (-) figure denotes net borrowing; Excludes reserve assets. c. Includes hydropower loans and accrued interest. Note on general sign convention: (+) = increase in assets or liabilities; (-) = decrease in assets or liabilities.

d. Launched for the first time in FY 2012/13, Bhutan’s BOP statistics have been revised in line with IMF BPM6 methodology (from FY 2006/07 onwards), replacing BPMS methodology. Revisions were made under the IMF-JSA project to improve external sector statistics in the Asia-Pacific region and also includes other improvements in data coverage and classifications that were carried out in 2013. Please refer to Section I Economic Review 3. External Sector for details.

Source: Royal Monetary Authority of Bhutan, Thimphu
Table 11.7: Gross International Reserves (End Period), Bhutan, 2012/13 To 2016/17

<table>
<thead>
<tr>
<th>Item</th>
<th>2012/13</th>
<th>2013/14</th>
<th>2014/15</th>
<th>2015/16</th>
<th>2016/17</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Rupee reserves</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Royal Monetary Authority of Bhutan</td>
<td>11,352.24</td>
<td>10,133.27</td>
<td>10,865.88</td>
<td>20,811.87</td>
<td>21,092.36</td>
</tr>
<tr>
<td>Bank of Bhutan Ltd.</td>
<td>10,706.43</td>
<td>9,493.07</td>
<td>9,826.55</td>
<td>19,017.73</td>
<td>19,433.11</td>
</tr>
<tr>
<td>Bhutan National Bank Ltd.</td>
<td>229.83</td>
<td>447.91</td>
<td>598.04</td>
<td>830.28</td>
<td>1,075.85</td>
</tr>
<tr>
<td>TBank Ltd.</td>
<td>56.46</td>
<td>61.91</td>
<td>193.91</td>
<td>141.99</td>
<td>212.23</td>
</tr>
<tr>
<td>Druk PNB Ltd.</td>
<td>115.72</td>
<td>74.91</td>
<td>77.25</td>
<td>175.94</td>
<td>122.35</td>
</tr>
<tr>
<td>Bhutan Development Bank Ltd.</td>
<td>243.79</td>
<td>55.47</td>
<td>170.14</td>
<td>645.92</td>
<td>248.81</td>
</tr>
<tr>
<td>2. Convertible currency reserves (US $)</td>
<td>726.71</td>
<td>829.26</td>
<td>788.02</td>
<td>810.98</td>
<td>776.60</td>
</tr>
<tr>
<td>Royal Monetary Authority of Bhutan</td>
<td>692.68</td>
<td>789.15</td>
<td>759.44</td>
<td>789.51</td>
<td>748.79</td>
</tr>
<tr>
<td>Bhutan National Bank Ltd.</td>
<td>10.61</td>
<td>14.80</td>
<td>6.94</td>
<td>5.77</td>
<td>7.30</td>
</tr>
<tr>
<td>TBank Ltd.</td>
<td>0.12</td>
<td>0.13</td>
<td>0.11</td>
<td>0.44</td>
<td>0.85</td>
</tr>
<tr>
<td>Druk PNB Ltd.</td>
<td>1.72</td>
<td>2.48</td>
<td>1.26</td>
<td>1.88</td>
<td>8.68</td>
</tr>
<tr>
<td>Bhutan Development Bank Ltd.</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>3. Total reserves (US $)</td>
<td>916.86</td>
<td>997.89</td>
<td>958.45</td>
<td>1,118.77</td>
<td>1,103.76</td>
</tr>
<tr>
<td>4. Months of Merchandise Imports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total reserves</td>
<td>20.68</td>
<td>13.01</td>
<td>11.84</td>
<td>13.25</td>
<td>12.56</td>
</tr>
<tr>
<td>Rupee reserves</td>
<td>5.21</td>
<td>2.56</td>
<td>2.56</td>
<td>4.26</td>
<td>4.45</td>
</tr>
<tr>
<td>Convertible currency reserves</td>
<td>92.77</td>
<td>76.77</td>
<td>54.76</td>
<td>66.17</td>
<td>54.29</td>
</tr>
</tbody>
</table>

Note: Convertible currency reserves of RMA have been revised in 2013 to exclude the US dollar pledge on any outstanding overdraft as of each reference period. Reserves also exclude (from July 2007 onwards) the local currency component of Bhutan’s IMF Quota and the Kuwait fund investment. (2) Data for 2012/13 are based on provisional import figures for 2012/13 and are subject to change.

Source: Royal Monetary Authority, Thimphu

<table>
<thead>
<tr>
<th>Month</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>54.31</td>
<td>62.08</td>
<td>62.14</td>
<td>67.29</td>
<td>68.09</td>
</tr>
<tr>
<td>February</td>
<td>53.75</td>
<td>62.25</td>
<td>62.03</td>
<td>68.24</td>
<td>66.74</td>
</tr>
<tr>
<td>March</td>
<td>54.39</td>
<td>61.01</td>
<td>62.45</td>
<td>67.02</td>
<td>65.92</td>
</tr>
<tr>
<td>April</td>
<td>54.38</td>
<td>60.36</td>
<td>62.75</td>
<td>66.47</td>
<td>64.51</td>
</tr>
<tr>
<td>May</td>
<td>55.03</td>
<td>59.31</td>
<td>63.81</td>
<td>66.89</td>
<td>64.41</td>
</tr>
<tr>
<td>June</td>
<td>58.33</td>
<td>59.73</td>
<td>63.86</td>
<td>67.30</td>
<td>64.44</td>
</tr>
<tr>
<td>July</td>
<td>59.78</td>
<td>60.06</td>
<td>63.65</td>
<td>67.22</td>
<td>64.44</td>
</tr>
<tr>
<td>August</td>
<td>63.21</td>
<td>60.90</td>
<td>65.07</td>
<td>66.94</td>
<td>63.97</td>
</tr>
<tr>
<td>September</td>
<td>63.64</td>
<td>60.88</td>
<td>66.19</td>
<td>66.74</td>
<td>64.46</td>
</tr>
<tr>
<td>October</td>
<td>61.63</td>
<td>61.35</td>
<td>65.08</td>
<td>66.76</td>
<td>65.09</td>
</tr>
<tr>
<td>November</td>
<td>62.71</td>
<td>61.68</td>
<td>66.05</td>
<td>67.53</td>
<td>64.87</td>
</tr>
<tr>
<td>December</td>
<td>61.95</td>
<td>62.71</td>
<td>66.60</td>
<td>67.90</td>
<td>64.24</td>
</tr>
<tr>
<td>Calendar year average exchange rate</td>
<td>58.59</td>
<td>61.47</td>
<td>64.14</td>
<td>67.19</td>
<td>65.10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal year average exchange Rate</td>
<td>54.86</td>
<td>61.47</td>
<td>62.05</td>
<td>66.32</td>
<td>66.43</td>
</tr>
</tbody>
</table>

*Source: Royal Monetary Authority, Thimphu.*
The sound growth of financial institutions plays pivotal role in developing countries in pursuit of economic growth responding to monetary problems to the government’s task of nation building. The financial sector in Bhutan comprises of Royal Monetary Authority (Bhutan’s Central Bank); the Bank of Bhutan, Bhutan National Bank and two private banks: Druk Punjab Bank and Tashi Bank both established in 2010. The non-bank financial institutions are the Royal Insurance Corporation of Bhutan, Bhutan Development Bank Limited and National Pension & Provident Fund.

The Royal Monetary Authority has developed a comprehensive statistical system for the money, banking and finance sector. The main element of the system is the monetary survey, which is a consolidation of the accounts of the Royal Monetary Authority and other Banks and Financial Institutions showing the financial relationship between these institutions and other sectors of the economy. In addition, financial statements are also available for the two non-bank financial institution.
<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets total</strong></td>
<td>99,352.28</td>
<td>120,531.16</td>
<td>125,501.60</td>
<td>144,334.56</td>
<td>163,234.59</td>
</tr>
<tr>
<td>Foreign Assets (net)</td>
<td>51,342.67</td>
<td>69,081.59</td>
<td>66,305.10</td>
<td>73,220.22</td>
<td>72,878.53</td>
</tr>
<tr>
<td>Rupee</td>
<td>(3,757.20)</td>
<td>11,034.15</td>
<td>7,324.01</td>
<td>15,748.46</td>
<td>20,598.40</td>
</tr>
<tr>
<td>Others</td>
<td>55,099.87</td>
<td>58,047.44</td>
<td>58,981.09</td>
<td>57,471.76</td>
<td>52,280.13</td>
</tr>
<tr>
<td>Domestic Credit</td>
<td>48,009.60</td>
<td>51,449.57</td>
<td>59,196.50</td>
<td>71,114.34</td>
<td>90,356.05</td>
</tr>
<tr>
<td>Claims on Government (net)</td>
<td>(2,388.52)</td>
<td>(5,013.40)</td>
<td>(6,123.14)</td>
<td>(4,300.67)</td>
<td>2,498.61</td>
</tr>
<tr>
<td>Claims on Other Public Sector</td>
<td>1,646.34</td>
<td>3,112.88</td>
<td>5,340.60</td>
<td>4,988.85</td>
<td>5,702.22</td>
</tr>
<tr>
<td>Claims on private sector</td>
<td>48,751.77</td>
<td>53,350.09</td>
<td>59,979.03</td>
<td>70,426.17</td>
<td>82,155.22</td>
</tr>
<tr>
<td><strong>Liabilities total</strong></td>
<td>99,352.28</td>
<td>120,531.16</td>
<td>125,501.60</td>
<td>144,334.56</td>
<td>163,234.59</td>
</tr>
<tr>
<td>Broad money (M2)</td>
<td>58,209.85</td>
<td>73,366.10</td>
<td>76,148.61</td>
<td>93,680.71</td>
<td>110,000.90</td>
</tr>
<tr>
<td>Narrow Money (M1)</td>
<td>34,077.92</td>
<td>43,296.20</td>
<td>44,428.81</td>
<td>52,057.52</td>
<td>63,478.17</td>
</tr>
<tr>
<td>Nu. Outside Banks</td>
<td>5,406.20</td>
<td>5,671.59</td>
<td>6,587.16</td>
<td>8,318.93</td>
<td>8,767.08</td>
</tr>
<tr>
<td>Transferable Deposits</td>
<td>28,671.71</td>
<td>37,624.61</td>
<td>37,841.65</td>
<td>43,738.60</td>
<td>54,711.09</td>
</tr>
<tr>
<td>Other Deposits</td>
<td>24,131.94</td>
<td>30,069.91</td>
<td>31,719.80</td>
<td>41,623.18</td>
<td>46,522.73</td>
</tr>
<tr>
<td>Other items (net)</td>
<td>41,142.42</td>
<td>47,165.05</td>
<td>49,352.99</td>
<td>50,653.86</td>
<td>53,233.68</td>
</tr>
</tbody>
</table>

**Note:**
1. It includes claims on Government Corporations and Other Public Corporations
2. It includes claims on Non-bank financial institutions (NBFIs)
3. Other Deposits includes time deposits plus foreign currency deposits
   a. Starting from January 2003 onwards, a major reclassification has been carried out in the accounts of all the economic sectors. Data prior to 2003 cannot always be directly compared with the subsequent data, because of a break in continuity.
   b. Broad money (M2)=M=Narrow Money+Other Deposits, Narrow Money (M1)=Nu. Outside banks+Transferable Deposits+NBFIs Deposits; Figures in the brackets ( ) are negative
   c. The terms Demand Deposits and Quasi Money are replaced by Transferable Deposits and Other Deposits as per the International Monetary Fund’s Monetary and Financial Statistics Manual, 2000

**Source:** Royal Monetary Authority of Bhutan, Thimphu.
### Table 12.2: Monetary and Financial Statistics of Royal Insurance Corporation of Bhutan, (2013-2017)

(Nu. in Million)

<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assets total</td>
<td>8,283.38</td>
<td>10,885.42</td>
<td>13,805.95</td>
<td>18,021.63</td>
<td>20,494.85</td>
</tr>
<tr>
<td>Reserves</td>
<td>232.31</td>
<td>880.26</td>
<td>399.63</td>
<td>917.18</td>
<td>1,560.31</td>
</tr>
<tr>
<td>Foreign Assets</td>
<td>26.30</td>
<td>36.71</td>
<td>14.05</td>
<td>76.36</td>
<td>20.62</td>
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<tr>
<td>Rupee</td>
<td>0.04</td>
<td>34.00</td>
<td>11.21</td>
<td>6.70</td>
<td>...</td>
</tr>
<tr>
<td>Others</td>
<td>26.25</td>
<td>2.70</td>
<td>2.84</td>
<td>69.66</td>
<td>20.62</td>
</tr>
<tr>
<td>Domestic Credit ¹</td>
<td>6,631.65</td>
<td>9,968.46</td>
<td>13,392.27</td>
<td>17,028.09</td>
<td>18,913.93</td>
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<tr>
<td>Claims on Public Sector ²</td>
<td>13.48</td>
<td>38.98</td>
<td>38.98</td>
<td>71.35</td>
<td>50.46</td>
</tr>
<tr>
<td>Claims on private sector</td>
<td>6,582.67</td>
<td>8,283.53</td>
<td>11,860.06</td>
<td>15,549.45</td>
<td>17,501.29</td>
</tr>
<tr>
<td>Claims on NBFIs</td>
<td>35.50</td>
<td>42.83</td>
<td>65.10</td>
<td>103.67</td>
<td>58.56</td>
</tr>
<tr>
<td>Claims on DMBs</td>
<td>1,393.13</td>
<td>1,603.13</td>
<td>1,428.13</td>
<td>1,303.61</td>
<td>1,303.61</td>
</tr>
<tr>
<td>Liabilities total</td>
<td>8,283.43</td>
<td>10,885.42</td>
<td>13,805.95</td>
<td>18,021.63</td>
<td>20,494.85</td>
</tr>
<tr>
<td>Life fund</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>3,083.5</td>
<td>3,849.9</td>
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<tr>
<td>Gebneral Insurance Fund</td>
<td>...</td>
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<td>...</td>
<td>251.4</td>
<td>272.9</td>
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<td>Group Insurance Fund</td>
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<td>...</td>
<td>4,140.2</td>
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<tr>
<td>Credit from DMBs</td>
<td>740.68</td>
<td>642.77</td>
<td>812.30</td>
<td>2,501.20</td>
<td>1,621.26</td>
</tr>
<tr>
<td>Credit from NBFIs</td>
<td>2,898.37</td>
<td>3,461.31</td>
<td>3,595.67</td>
<td>3,595.22</td>
<td>3,452.49</td>
</tr>
<tr>
<td>Capital accounts</td>
<td>1,764.56</td>
<td>1,991.01</td>
<td>2,479.25</td>
<td>2,852.25</td>
<td>2,907.28</td>
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<tr>
<td>Other items (net)</td>
<td>2,879.82</td>
<td>4,790.33</td>
<td>6,918.74</td>
<td>1,597.81</td>
<td>6,688.60</td>
</tr>
</tbody>
</table>

Note: ¹ Domestic credit excluding the claims on DMBs
² With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

DMBs = Deposit Money Banks, NBFIs = Non Bank Financial Institutions.

Source: Royal Monetary Authority of Bhutan, Thimphu.

<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets total</strong></td>
<td>24,085.96</td>
<td>26,818.79</td>
<td>28,786.35</td>
<td>33,723.48</td>
<td>36,579.76</td>
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<tr>
<td>Reserves with RMA</td>
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<td>384.62</td>
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<td>900.67</td>
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<td>176.93</td>
<td>885.83</td>
<td>776.06</td>
</tr>
<tr>
<td><strong>Liabilities total</strong></td>
<td>24,085.96</td>
<td>26,818.79</td>
<td>28,786.35</td>
<td>33,723.48</td>
<td>36,579.76</td>
</tr>
<tr>
<td>Demand Deposits (Current and saving Deposits)</td>
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<td>7,861.42</td>
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<td>402.95</td>
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<td>2,098.33</td>
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</table>

Note: With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA.

Source: Royal Monetary Authority Bhutan, Thimphu.
Table 12.4: Monetary and Financial Statistics of Bhutan Development Bank Limited, December (2013-2017) (Nu. in Million)

<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
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<td>15,188.26</td>
<td>16,834.73</td>
<td>21,182.33</td>
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<td>11.69</td>
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<td>Others</td>
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<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Domestic Credit</td>
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<td>11,371.13</td>
<td>14,621.42</td>
<td>17,385.39</td>
<td>19,338.85</td>
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<td>...</td>
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<td>Claims on Govt. Corporations</td>
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<td>411.27</td>
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</tr>
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<td>16,834.73</td>
<td>21,182.33</td>
<td>23,223.76</td>
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<td>8,214.07</td>
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<td>...</td>
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<td>...</td>
<td>...</td>
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<td>Domestic Borrowing</td>
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<td>263.77</td>
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<td>4,594.41</td>
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</tbody>
</table>

Note: 1 With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA.

2 Due to changes in the classification of foreign liabilities, the external borrowing of the BDBL has been reclassified as the domestic borrowing as this borrowing was onlent by Government to the BDBL.

Source: Royal Monetary Authority of Bhutan, Thimphu.
Table 12.5: Monetary and Financial Statistics of Royal Monetary Authority of Bhutan, (2013-2017)

<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets total</strong></td>
<td><strong>59,044.72</strong></td>
<td><strong>75,684.23</strong></td>
<td><strong>69,582.69</strong></td>
<td><strong>78,200.66</strong></td>
<td><strong>77,975.19</strong></td>
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<td>21,604.32</td>
<td>26,617.34</td>
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<td>52,181.66</td>
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<td>56,600.28</td>
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<td>...</td>
<td>27.92</td>
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<td>27.88</td>
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<td><strong>Liabilities total</strong></td>
<td><strong>59,044.72</strong></td>
<td><strong>75,684.23</strong></td>
<td><strong>69,582.69</strong></td>
<td><strong>71,200.66</strong></td>
<td><strong>77,975.19</strong></td>
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<td>7,000.00</td>
<td>7,000.00</td>
<td>7,046.14</td>
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<tr>
<td>Rupee</td>
<td>10,136.43</td>
<td>10,000.00</td>
<td>7,000.00</td>
<td>7,000.00</td>
<td>7,046.14</td>
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<td>Others</td>
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<tr>
<td>Government deposits</td>
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<td>11,118.32</td>
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<tr>
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<td>21,095.63</td>
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<td>24,827.46</td>
</tr>
</tbody>
</table>

Source: Royal Monetary Authority of Bhutan, Thimphu.

(Nu. in Million )

<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Assets total</strong></td>
<td>30,367.15</td>
<td>39,496.06</td>
<td>37,760.38</td>
<td>42,634.70</td>
<td>49,385.31</td>
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<tr>
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<td>18,021.38</td>
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<td>37,760.38</td>
<td>42,634.70</td>
<td>49,385.31</td>
</tr>
<tr>
<td>Demand deposit</td>
<td>17,453.85</td>
<td>23,364.32</td>
<td>22,189.24</td>
<td>25,055.05</td>
<td>30,283.60</td>
</tr>
<tr>
<td>Time deposit</td>
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</tr>
<tr>
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<td>1,145.07</td>
<td>540.65</td>
<td>865.58</td>
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</table>

Note: ¹With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority of Bhutan, Thimphu.

<table>
<thead>
<tr>
<th>Item</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
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<td><strong>Assets total</strong></td>
<td>3,145.57</td>
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<td>6,714.41</td>
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<td>40.00</td>
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<td>40.00</td>
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<tr>
<td>Claims on Government Corps</td>
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<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
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<td>Claims on Public Sector (^1)</td>
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<td>6,714.41</td>
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<td>1,990.57</td>
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<td>7.00</td>
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</tr>
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<td>Other</td>
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<td>1,655.28</td>
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*Note: \(^1\) With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA.*

*Source: Royal Monetary Authority, Thimphu.*

<table>
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<tr>
<th>Item</th>
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<th>2015</th>
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<th>2017</th>
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Note: ¹ With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA

Source: Royal Monetary Authority, Thimphu.

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<th>2017</th>
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Note: 1 With effect from January 1, 2011 Claims on Joint Corporations has been reclassified as Claims on Public Sector as per the new reporting format of the Financial Regulations and Supervision Department of the RMA
NBFIs stands for Non Bank Financial Institutions; DMBs Deposit Money Banks
Source: Royal Monetary Authority of Bhutan, Thimphu.
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Note: Loan availed by Ministry of Finance has been reported under Service and Tourism in case of BoB Manufacturing and Industry in case of BNB.

Source: Royal Monetary Authority of Bhutan, Thimphu.
<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Building and construction</td>
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<td>401.03</td>
<td>726.03</td>
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<td>1,293.66</td>
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<td>789.90</td>
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<td>109.72</td>
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<td>127.77</td>
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<td>209.82</td>
<td>151.83</td>
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<tr>
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<td>1,465.09</td>
<td>1,407.72</td>
<td>1,148.31</td>
<td>2,317.10</td>
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<td>2,320.19</td>
<td>2,475.43</td>
<td>2,729.58</td>
<td>2,459.39</td>
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<td>Loan Against Shares</td>
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<td>702.59</td>
<td>661.69</td>
<td>487.75</td>
<td>337.45</td>
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<td>130.47</td>
<td>181.41</td>
<td>179.92</td>
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<td>Royal Insurance Corporation of Bhutan</td>
<td>41.13</td>
<td>68.56</td>
<td>88.67</td>
<td>63.44</td>
<td>84.79</td>
</tr>
<tr>
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<td>...</td>
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<td>...</td>
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<td>Bhutan National Bank Ltd</td>
<td>85.29</td>
<td>110.49</td>
<td>83.43</td>
<td>140.47</td>
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<td>Druk PNB Bank Ltd</td>
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<td>287.78</td>
<td>264.64</td>
<td>104.32</td>
<td>99.09</td>
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<td>T Bank Ltd</td>
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<td>12.43</td>
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<td>99.02</td>
<td>100.07</td>
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<td>41.92</td>
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<td>53.92</td>
<td>48.14</td>
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<td>3,925.29</td>
<td>4,914.99</td>
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<td>312.00</td>
<td>320.90</td>
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<td>19.15</td>
<td>359.37</td>
<td>1,650.85</td>
<td>487.77</td>
</tr>
<tr>
<td>Bhutan Development Bank Ltd</td>
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<td>352.81</td>
<td>562.64</td>
<td>660.29</td>
<td>806.33</td>
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<tr>
<td>Bhutan National Bank Ltd</td>
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<td>211.89</td>
<td>260.92</td>
<td>328.89</td>
<td>1,610.27</td>
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<td>133.95</td>
<td>71.18</td>
<td>286.85</td>
<td>393.86</td>
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<td>307.29</td>
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<td>771.76</td>
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<td>28.53</td>
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<tr>
<td>Total</td>
<td>57,460.53</td>
<td>63,982.05</td>
<td>74,777.63</td>
<td>88,408.81</td>
<td>103,338.61</td>
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</tbody>
</table>

Note: Loan availed by Ministry of Finance has been reported under Service and Tourism in case of BoB Manufacturing and Industry in case of BNB. Source: Royal Monetary Authority of Bhutan, Thimphu.
Table 12.11: Interest Rates of Deposits in Financial Institutions, 2013 to 2017

<table>
<thead>
<tr>
<th>Type of Deposit</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Savings</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
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<tr>
<td><strong>Fixed Deposit</strong></td>
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<td></td>
<td></td>
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<tr>
<td>i) 3 months to less than 1 year</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
<td>5.00</td>
</tr>
<tr>
<td>ii) 1 year to less than 2 years</td>
<td>7.00</td>
<td>7.00</td>
<td>6.75</td>
<td>6.75</td>
<td>6.75</td>
</tr>
<tr>
<td>iii) 2 years to less than 3 years</td>
<td>7.50</td>
<td>7.50</td>
<td>7.25</td>
<td>7.25</td>
<td>7.25</td>
</tr>
<tr>
<td>iv) 3 years less than 5 years</td>
<td>8.00</td>
<td>8.00</td>
<td>7.75</td>
<td>7.75</td>
<td>7.75</td>
</tr>
<tr>
<td>v) 5 years less than 7 years</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
</tr>
<tr>
<td>vi) 7 years and above</td>
<td>8.80</td>
<td>8.80</td>
<td>8.75</td>
<td>8.75</td>
<td>8.75</td>
</tr>
<tr>
<td><strong>For Institutions &amp; Companies</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) 91 days to less than 1 year</td>
<td>6.50</td>
<td>6.50</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>ii) 1 year to less than 2 years</td>
<td>7.00</td>
<td>7.00</td>
<td>7.00</td>
<td>7.00</td>
<td>7.00</td>
</tr>
<tr>
<td>iii) 2 years to less than 3 years</td>
<td>7.50</td>
<td>7.50</td>
<td>7.50</td>
<td>7.50</td>
<td>7.50</td>
</tr>
<tr>
<td>iv) 3 years to less than 5 years</td>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
<td>8.00</td>
</tr>
<tr>
<td>v) 5 years to less than 7 years</td>
<td>8.50</td>
<td>8.50</td>
<td>8.25</td>
<td>8.25</td>
<td>8.25</td>
</tr>
<tr>
<td>vi) 7 years &amp; above</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.50</td>
<td>8.75</td>
</tr>
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</table>

Source: Bank of Bhutan, Thimphu

<table>
<thead>
<tr>
<th>Company</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhutan Board Products Ltd. (BBPL)</td>
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<td>480</td>
<td>479</td>
<td>477</td>
<td>478</td>
</tr>
<tr>
<td>Bhutan Carbide &amp; Chemical Ltd. (BCCL)</td>
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<td>259</td>
<td>260</td>
<td>263</td>
<td>265</td>
</tr>
<tr>
<td>Bhutan Ferro Alloys Ltd. (BFAL)</td>
<td>43</td>
<td>43</td>
<td>43</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>Bhutan Insurance Ltd. (BIL)</td>
<td>4,395</td>
<td>4,370</td>
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<td>4,294</td>
<td>4,269</td>
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<td>4,521</td>
<td>4,514</td>
<td>4,514</td>
<td>4,533</td>
</tr>
<tr>
<td>Bhutan Polymers Company Ltd. (BPCL)</td>
<td>128</td>
<td>127</td>
<td>128</td>
<td>129</td>
<td>127</td>
</tr>
<tr>
<td>Bhutan Times Ltd. (BTL)</td>
<td>288</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Bhutan Tourism Corpn. Ltd (BTCL)</td>
<td>156</td>
<td>155</td>
<td>156</td>
<td>156</td>
<td>156</td>
</tr>
<tr>
<td>Druk Ferro Alloys Ltd. (DFAL)</td>
<td>459</td>
<td>457</td>
<td>459</td>
<td>459</td>
<td>457</td>
</tr>
<tr>
<td>Dungsam Polymers Ltd. (DPL)</td>
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<td>14,487</td>
<td>14,416</td>
<td>14,359</td>
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<td>Druk plaster &amp; Chemicals Ltd. (DPOP)</td>
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<td>214</td>
<td>214</td>
<td>214</td>
<td>214</td>
</tr>
<tr>
<td>Druk PNB Bank (DPNB)</td>
<td>22,378</td>
<td>22,253</td>
<td>22,143</td>
<td>22,050</td>
<td>21,941</td>
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<td>1,262</td>
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<td>Druk Wang Alloys Ltd. (DWAL)</td>
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<td>494</td>
<td>494</td>
<td>498</td>
<td>500</td>
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<td>420</td>
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<td>417</td>
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<td>Kuensel Corporation Ltd. (KCL)</td>
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<td>1,493</td>
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<td>1,481</td>
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<td>S.D Eastern Bhutan Coal Company Ltd. (EBCC)</td>
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<td>1,062</td>
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<td>1,053</td>
<td>1,052</td>
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<td>State Trading Corpn. of Bhutan Ltd. (STCB)</td>
<td>137</td>
<td>137</td>
<td>136</td>
<td>137</td>
<td>136</td>
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<td>GIC-Bhutan Re-Limited (GBRL)</td>
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<td>1,137</td>
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<td><strong>62,991</strong></td>
<td><strong>62,555</strong></td>
<td><strong>62,299</strong></td>
<td><strong>62,066</strong></td>
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**Note:** 1 Delisted in November 2014, 2 Listed on August 2013, & 3 Listed on August 2014

**Source:** Royal Securities Exchange of Bhutan Ltd, Thimphu.
Table 12.13: Interest Rates and Repayment Period by Sector and Type of Loan, Financial Institutions, Bhutan (2015-2017)

<table>
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<th>Sector</th>
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<th>2016</th>
<th>2017</th>
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</thead>
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<td></td>
<td>Interest Rate (% p.a)</td>
<td>Repayment Period (Yrs)</td>
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<td>Export Finance</td>
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<tr>
<td>Convertible Currency (Upto 60 days of credit)</td>
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<td>1 yr. subject to review renewal</td>
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</tr>
<tr>
<td>Convertible Currency (More than 60 days of credit)</td>
<td>13.75</td>
<td>1yr. subject to review renewal</td>
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<td>General Trade</td>
<td>13.75</td>
<td>1 yr. subject to review renewal</td>
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<tr>
<td>Trade &amp; Commerce - Wholesale and Retail</td>
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</tr>
<tr>
<td>Trade &amp; Commerce - Contractors and Suppliers</td>
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<td>Buses and trucks</td>
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<tr>
<td>Term Loan</td>
<td>11.73-12.15</td>
<td>1-5 Years</td>
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<td>Working Capital</td>
<td>13.75</td>
<td>1 yr. subject to review renewal</td>
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</tr>
<tr>
<td>Other Passenger vehicles</td>
<td>11.73-12.15</td>
<td>1-5 years</td>
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<td>11.73-12.15</td>
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<td>1-15 years</td>
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<tr>
<td>Service Industries</td>
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<td>Working Capital (General)</td>
<td>...</td>
<td>...</td>
<td></td>
</tr>
<tr>
<td>Working Capital (Automobile workshops etc.)</td>
<td>...</td>
<td>...</td>
<td></td>
</tr>
<tr>
<td>Construction of Hotels and Restaurants</td>
<td>...</td>
<td>...</td>
<td></td>
</tr>
<tr>
<td>Hospitality/Entertainment/Recreational</td>
<td>...</td>
<td>...</td>
<td></td>
</tr>
<tr>
<td>IT related business</td>
<td>...</td>
<td>...</td>
<td></td>
</tr>
<tr>
<td>Set up of Hotel/Resort/Restaurant etc.</td>
<td>...</td>
<td>...</td>
<td></td>
</tr>
<tr>
<td>Setting up of Institutions (Schools/Colleges etc.)</td>
<td>...</td>
<td>...</td>
<td></td>
</tr>
<tr>
<td>Transport (Tourism)</td>
<td>...</td>
<td>...</td>
<td></td>
</tr>
<tr>
<td>Personal Loans</td>
<td>15</td>
<td>1 year</td>
<td></td>
</tr>
<tr>
<td>Equity finance</td>
<td>11.73-12.23</td>
<td>1-6 years</td>
<td></td>
</tr>
<tr>
<td>Housing (commercial)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Construction</td>
<td>12.73-13.25</td>
<td>1-20 years</td>
<td></td>
</tr>
<tr>
<td>Repair/Renovation</td>
<td>12.73-13.25</td>
<td>1-20 years</td>
<td></td>
</tr>
<tr>
<td>Purchase</td>
<td>12.73-13.25</td>
<td>1-20 years</td>
<td></td>
</tr>
<tr>
<td>Consumer Loans</td>
<td>12.35-12.75</td>
<td>1-5 Years</td>
<td></td>
</tr>
<tr>
<td>Housing (residential)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Construction</td>
<td>12.48-13</td>
<td>1-20 years</td>
<td></td>
</tr>
<tr>
<td>Repair/Renovation</td>
<td>12.48-13</td>
<td>1-20 years</td>
<td></td>
</tr>
<tr>
<td>Purchase</td>
<td>12.48-13</td>
<td>1-20 years</td>
<td></td>
</tr>
<tr>
<td>Consumer Loans</td>
<td>12.48-13</td>
<td>1-20 years</td>
<td></td>
</tr>
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</table>

Source: Bank of Bhutan, Thimphu
### Table 12.13: Interest Rates and Repayment Period by Sector and Type of Loan, Financial Institutions, Bhutan (2015-2017)

<table>
<thead>
<tr>
<th>Sector</th>
<th>2015 Interest Rate (% p.a)</th>
<th>Repayment Period (Yrs)</th>
<th>2016 Interest Rate (% p.a)</th>
<th>Repayment Period (Yrs)</th>
<th>2017 Interest Rate (% p.a)</th>
<th>Repayment Period (Yrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Export Finance</td>
<td>9.86</td>
<td>1 yr. subject to review renewal</td>
<td>9.71</td>
<td>1 year</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9.86</td>
<td>1 yr. subject to review renewal</td>
<td>10.71</td>
<td>1 year</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.30</td>
<td>5 years</td>
<td>10.15</td>
<td>1-5 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11.50</td>
<td>1 year</td>
<td>11.35</td>
<td>1 year</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.66</td>
<td>3 years</td>
<td>10.51</td>
<td>1-3 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9.07</td>
<td>5 years</td>
<td>9.89-11.85</td>
<td>1-10 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11.00</td>
<td>1 yr. subject to review renewal</td>
<td>10.20</td>
<td>1 year</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9.07</td>
<td>5 years</td>
<td>8.92</td>
<td>1-5 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8.49</td>
<td>15 years</td>
<td>7.99-9.98</td>
<td>1-15 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11.07</td>
<td>20 years</td>
<td>9.98-11.93</td>
<td>1-20 years</td>
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</tr>
<tr>
<td></td>
<td>11.05</td>
<td>1 yr. subject to review renewal</td>
<td>11.05</td>
<td>1 year</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>1 year</td>
<td>10.20</td>
<td>1 year</td>
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</tr>
<tr>
<td></td>
<td>12</td>
<td>1 year</td>
<td>11.85</td>
<td>1 year</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9.18</td>
<td>20 years</td>
<td>8.14-10.85</td>
<td>1-20 years</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>10.1</td>
<td>20 years</td>
<td>9.95-11.88</td>
<td>1-20 years</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>8.49</td>
<td>20 years</td>
<td>8-10.51</td>
<td>1-20 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8.29</td>
<td>20 years</td>
<td>8.14-10.85</td>
<td>1-20 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8.49</td>
<td>20 years</td>
<td>8.34-10.85</td>
<td>1-20 years</td>
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<td></td>
<td>9.29</td>
<td>5 years</td>
<td>9.14</td>
<td>1-5 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15.00</td>
<td>1 year</td>
<td>13.14</td>
<td>1 year</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11.05</td>
<td>6 years</td>
<td>10.90-12.60</td>
<td>1-6 years</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>12.73-13.25</td>
<td>1-20 years</td>
<td>9.15-12.90</td>
<td>1-20 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12.73-13.25</td>
<td>1-20 years</td>
<td>9.15-12.90</td>
<td>1-20 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12.73-13.25</td>
<td>1-20 years</td>
<td>9.15-12.90</td>
<td>1-20 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12.35-12.75</td>
<td>1-5 Years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12.48-13</td>
<td>1-20 years</td>
<td>8.20-10.75</td>
<td>1-20 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12.48-13</td>
<td>1-20 years</td>
<td>8.20-10.75</td>
<td>1-20 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12.48-13</td>
<td>1-20 years</td>
<td>8.20-10.75</td>
<td>1-20 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12.48-13</td>
<td>1-20 years</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Bank of Bhutan, Thimphu
### Table 12.14: Royal Securities Exchange of Bhutan Ltd. Market Information at the End of December, 2017

<table>
<thead>
<tr>
<th>Company</th>
<th>Paid-Up Shares</th>
<th>Price per share (Nu)</th>
<th>Market capitalization (Nu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhutan Board Products Ltd. (BBPL)</td>
<td>14,000,140</td>
<td>10.00</td>
<td>140.00</td>
</tr>
<tr>
<td>Bhutan Carbide &amp; Chemical Ltd. (BCCL)</td>
<td>10,000,000</td>
<td>70.00</td>
<td>700.00</td>
</tr>
<tr>
<td>Bhutan Ferro Alloys Ltd. (BFAL)</td>
<td>15,000,000</td>
<td>60.00</td>
<td>900.00</td>
</tr>
<tr>
<td>Bhutan Insurance Ltd. (BIL)</td>
<td>20,000,000</td>
<td>31.00</td>
<td>620.00</td>
</tr>
<tr>
<td>Bhutan National Bank Ltd. (BNBL)</td>
<td>329,193,596</td>
<td>26.50</td>
<td>8,723.63</td>
</tr>
<tr>
<td>Bhutan Polymers Company Ltd. (BPCL)</td>
<td>2,493,340</td>
<td>10.00</td>
<td>24.93</td>
</tr>
<tr>
<td>Bhutan Tourism Corpn. Ltd (BTCL)</td>
<td>2,094,000</td>
<td>40.00</td>
<td>83.76</td>
</tr>
<tr>
<td>Druk Ferro Alloys Ltd. (DFAL)</td>
<td>28,977,620</td>
<td>18.50</td>
<td>536.09</td>
</tr>
<tr>
<td>Dungsam Polymers Ltd. (DPL)</td>
<td>8,272,350</td>
<td>13.60</td>
<td>112.50</td>
</tr>
<tr>
<td>Druk plaster &amp; Chemicals Ltd. (DPOP)</td>
<td>1,000,000</td>
<td>20.00</td>
<td>20.00</td>
</tr>
<tr>
<td>Druk PNB Bank (DPNB)</td>
<td>45,000,000</td>
<td>25.10</td>
<td>1,129.50</td>
</tr>
<tr>
<td>T Bank Ltd. (TBL)</td>
<td>30,000,000</td>
<td>19.50</td>
<td>585.00</td>
</tr>
<tr>
<td>Druk Satair Corporation Ltd. (DSCL)</td>
<td>9,130,860</td>
<td>34.00</td>
<td>310.45</td>
</tr>
<tr>
<td>Druk Wang Alloys Ltd. (DWAL)</td>
<td>20,369,961</td>
<td>34.00</td>
<td>692.58</td>
</tr>
<tr>
<td>Jigme Mining Corporation Ltd. (JMCL)</td>
<td>3,981,341</td>
<td>80.00</td>
<td>318.51</td>
</tr>
<tr>
<td>Kuensel Corporation Ltd. (KCL)</td>
<td>5,000,000</td>
<td>12.00</td>
<td>60.00</td>
</tr>
<tr>
<td>Penden Cement Authority Ltd. (PCAL)</td>
<td>34,000,070</td>
<td>66.00</td>
<td>2,244.00</td>
</tr>
<tr>
<td>Royal Insurance Corpn. of Bhutan (RICB)</td>
<td>120,000,000</td>
<td>59.00</td>
<td>7,080.00</td>
</tr>
<tr>
<td>S.D Eastern Bhutan Coal Company Ltd. (EBCC)</td>
<td>5,210,000</td>
<td>45.00</td>
<td>234.45</td>
</tr>
<tr>
<td>State Trading Corpn. of Bhutan Ltd. (STCB)</td>
<td>18,000,160</td>
<td>17.50</td>
<td>315.00</td>
</tr>
<tr>
<td>GIC-Bhutan Re-Limited (GBRL)</td>
<td>50,000,000</td>
<td>15.00</td>
<td>750.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>771,723,438</strong></td>
<td></td>
<td><strong>25,580.41</strong></td>
</tr>
</tbody>
</table>

*Source: Royal Securities Exchange of Bhutan Ltd. Thimphu.*
### Table 12.15: Royal Securities Exchange of Bhutan Ltd. Total Traded Volume at the End of December, (2013 - 2017)

<table>
<thead>
<tr>
<th>Company</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhutan Board Products Ltd. (BBPL)</td>
<td>10,100</td>
<td>...</td>
<td>1,000</td>
<td>40,000</td>
<td>...</td>
</tr>
<tr>
<td>Bhutan Carbide &amp; Chemicals Ltd. (BCCL)</td>
<td>20</td>
<td>40</td>
<td>800</td>
<td>75,000</td>
<td>1,250</td>
</tr>
<tr>
<td>Bhutan Ferro Alloys Ltd. (BFAL)</td>
<td>...</td>
<td>...</td>
<td>1,000</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Bhutan Insurance Ltd. (BIL)</td>
<td>171,831</td>
<td>359,709</td>
<td>715,020</td>
<td>244,820</td>
<td>47,800</td>
</tr>
<tr>
<td>Bhutan National Bank Ltd. (BNBL)</td>
<td>5,589,791</td>
<td>12,435,817</td>
<td>4,983,929</td>
<td>9,893,122</td>
<td>3,166,772</td>
</tr>
<tr>
<td>Bhutan Polymers Company Ltd. (BPCL)</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>23,790</td>
<td>20,000</td>
</tr>
<tr>
<td>Bhutan Tourism Corp. Ltd. (BTCL)</td>
<td>40</td>
<td>1,500</td>
<td>3,200</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Druk Ferro Alloys Ltd. (DFAL)</td>
<td>4,050</td>
<td>899,350</td>
<td>11,500</td>
<td>60,000</td>
<td>113,200</td>
</tr>
<tr>
<td>Dungsam Polymers Ltd. (DPL)</td>
<td>858,983</td>
<td>32,743</td>
<td>32,360</td>
<td>17,320</td>
<td>8,930</td>
</tr>
<tr>
<td>Druk Plaster &amp; Chemicals Ltd. (DPOP)</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Druk PNB Bank Ltd. (DPNB)</td>
<td>37,561</td>
<td>66,908</td>
<td>105,254</td>
<td>52,250</td>
<td>77,309</td>
</tr>
<tr>
<td>T Bank Ltd. (TBL)</td>
<td>826,699</td>
<td>57,994</td>
<td>274,672</td>
<td>256,730</td>
<td>150,880</td>
</tr>
<tr>
<td>Druk Satair Corp. Ltd. (DSCL)</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>10,280</td>
</tr>
<tr>
<td>Druk Wang Alloys Ltd. (DWAL)</td>
<td>1,175</td>
<td>11,325</td>
<td>1,033,836</td>
<td>5,050</td>
<td>183,130</td>
</tr>
<tr>
<td>Jigme Mining Corporation Ltd. (JMCL)</td>
<td>801</td>
<td>3,468</td>
<td>37,350</td>
<td>4,044</td>
<td>...</td>
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<tr>
<td>Kuensel Corporation Ltd. (KCL)</td>
<td>432</td>
<td>...</td>
<td>8,670</td>
<td>1,500</td>
<td>...</td>
</tr>
<tr>
<td>Penden Cement Authority Ltd. (PCAL)</td>
<td>3,585</td>
<td>386,482</td>
<td>310,940</td>
<td>65,050</td>
<td>23,125</td>
</tr>
<tr>
<td>Royal Insurance Corp. of Bhutan Ltd. (RICB)</td>
<td>3,250</td>
<td>2,506,765</td>
<td>72,334,495</td>
<td>442,200</td>
<td>423,600</td>
</tr>
<tr>
<td>S.D Eastern Bhutan Coal Company Ltd. (EBCC)</td>
<td>1,000</td>
<td>4,950</td>
<td>9,000</td>
<td>500</td>
<td>7,000</td>
</tr>
<tr>
<td>State Trading Corp. of Bhutan Ltd. (STCB)</td>
<td>900,448</td>
<td>...</td>
<td>85,500</td>
<td>148,300</td>
<td>900</td>
</tr>
<tr>
<td>GIC-Bhutan Re-Limited (GBRL)</td>
<td>...</td>
<td>50,384,350</td>
<td>340,450</td>
<td>155,940</td>
<td>5,952</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>8,409,766</td>
<td>67,151,401</td>
<td>80,287,976</td>
<td>11,486,616</td>
<td>4,240,128</td>
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</table>

**Note:** Total traded volume is inclusive of Initial Public Offering (IPO), Secondary trading and Corporate actions.

**Source:** Royal Securities Exchange of Bhutan Ltd. Thimphu
<table>
<thead>
<tr>
<th>Company</th>
<th>Primary Capital Market</th>
<th>Secondary Capital Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhutan Board Products Ltd. (BBPL)</td>
<td>0.40</td>
<td>0.09</td>
</tr>
<tr>
<td>Bhutan Carbide &amp; Chemicals Ltd. (BCCL)</td>
<td>1.01</td>
<td>0.01</td>
</tr>
<tr>
<td>Bhutan Ferro-Alloys Ltd. (BFAL)</td>
<td>0.02</td>
<td>0.03</td>
</tr>
<tr>
<td>Bhutan National Bank Ltd. (BNBL)</td>
<td>165.38</td>
<td>134.26</td>
</tr>
<tr>
<td>Bhutan Polymers Company Ltd. (BPCL)</td>
<td>0.02</td>
<td>0.06</td>
</tr>
<tr>
<td>Bhutan Tourism Corp. Ltd. (BTCL)</td>
<td>0.24</td>
<td>0.24</td>
</tr>
<tr>
<td>Bhutan Tourism Corp. Ltd. (DPOF)</td>
<td>0.53</td>
<td>0.53</td>
</tr>
<tr>
<td>Druk PNB Bank Ltd. (DPNB)</td>
<td>11.78</td>
<td>11.78</td>
</tr>
<tr>
<td>Druk Wang Alloys Ltd. (DVAL)</td>
<td>4.94</td>
<td>4.94</td>
</tr>
<tr>
<td>S.D. Eastern Bhutan Coal Company Ltd. (EBCC)</td>
<td>0.34</td>
<td>0.34</td>
</tr>
<tr>
<td>Kuensel Corporation Ltd. (KCL)</td>
<td>0.05</td>
<td>0.05</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Primary Capital Market</th>
<th>Secondary Capital Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhutan National Bank Ltd. (BNBL)</td>
<td>89.84</td>
<td>89.84</td>
</tr>
<tr>
<td>Bhutan Polymers Company Ltd. (BPCL)</td>
<td>0.06</td>
<td>0.06</td>
</tr>
<tr>
<td>Bhutan Tourism Corp. Ltd. (BTCL)</td>
<td>0.13</td>
<td>0.13</td>
</tr>
<tr>
<td>Bhutan Tourism Corp. Ltd. (DPOF)</td>
<td>0.24</td>
<td>0.24</td>
</tr>
<tr>
<td>Druk PNB Bank Ltd. (DPNB)</td>
<td>1.65</td>
<td>1.65</td>
</tr>
<tr>
<td>Druk Wang Alloys Ltd. (DVAL)</td>
<td>4.14</td>
<td>4.14</td>
</tr>
<tr>
<td>S.D. Eastern Bhutan Coal Company Ltd. (EBCC)</td>
<td>2.43</td>
<td>2.43</td>
</tr>
<tr>
<td>Kuensel Corporation Ltd. (KCL)</td>
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Source: Royal Securities Exchange of Bhutan Ltd. Thimphu
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<th>2014 (In Million Nu.)</th>
<th>2015 (In Million Nu.)</th>
<th>2016 (In Million Nu.)</th>
<th>2017 (In Million Nu.)</th>
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**TOTAL**                                      |             | **366.32**             | **681.87**             | **193.78**             | **328.67**             | **125.68**             

*Source: Royal Securities Exchange of Bhutan Ltd. Thimphu*

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Until the inception of five year development plan in the country, the economic activities were basically involved in traditional way. The economic transaction was done through barter system; taxes were being collected in the form of kind and labor. The citizens were to remit certain portion of their agricultural, forest and livestock produce to government and mandatory to provide labor services to accomplish national developmental activities.

With start of Five Year Plan development in 1961 and steady economic integration at regional to global level has necessitated institutionalization of contemporary public finance system in the country. For this, the position of a Finance Secretary was created in the Royal Secretariat in 1963 and Ministry of Finance is one among the first few Ministries established in 1968. Further with introduction of Bhutanese paper currency in 1974, there has been systematic transition from barter system to monetized economy and the ancient taxation system has been gradually phased out and replaced by monetary taxation. In order to institutionalize the fair and equitable taxation and for coherent and rational tax system, taxation policy were initiated in the year 1989. The taxation policy was further revised in 1992, to trim down the tax formation and also to widen tax base in the country.

As required by Public Finance Act, 2007, the Ministry of Finance is responsible for overall financial management through effective and efficient use of public resources. As mandated for maintaining sound fiscal and macroeconomic policies, it coordinate, presents and produce macro-fiscal or government finance statistics of the country. Share of government expenditure to GDP is substantial and is significant for overall economic development of the country.
Table 13.1: Actual Annual Current Expenditure of the Government by Agency for the FY 2012/13 To 2016/17

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Source: Annual Financial Statement, Department of Public Accounts, MoF, Thimphu.
Table 13.1: Actual Annual Current Expenditure of the Government by Agency for the FY 2012/13 to 2016/17 (Nu. in million)

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Source: Annual Financial Statement, Department of Public Accounts, MoF, Thimphu.
Table 13.2: Actual Annual Capital Expenditure of the Government by Agency for the FY 2012/13 to 2016/17
(Nu. in million)

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Source: Annual Financial Statement, Department of Public Accounts, Mof, Thimphu.
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<td>Bhutan Standard Bureau</td>
<td>5.505</td>
<td>1.876</td>
<td>7.397</td>
<td>3.455</td>
<td>4.926</td>
</tr>
<tr>
<td>Khesar Gyalpo University of Medical Sciences of Bhutan</td>
<td>…</td>
<td>73.721</td>
<td>16.310</td>
<td>58.548</td>
<td>43.468</td>
</tr>
<tr>
<td>Jigme Singye Wangchuk School of Law</td>
<td>…</td>
<td>3.058</td>
<td>6.118</td>
<td>14.581</td>
<td>293.525</td>
</tr>
<tr>
<td>Bhutan National Legal Institute</td>
<td>…</td>
<td>…</td>
<td>6.727</td>
<td>8.376</td>
<td>10.204</td>
</tr>
<tr>
<td>Civil Society Organizations Authority</td>
<td>…</td>
<td>…</td>
<td>0.090</td>
<td>1.525</td>
<td>1.359</td>
</tr>
<tr>
<td>Jigme Dorji Wangchuck National Referral Hospital</td>
<td>…</td>
<td>…</td>
<td>71.129</td>
<td>109.095</td>
<td>83.060</td>
</tr>
<tr>
<td>Dzongkhag Administration</td>
<td>3,089.335</td>
<td>2,272.550</td>
<td>2,391.211</td>
<td>3,479.466</td>
<td>4,805.328</td>
</tr>
<tr>
<td>Gewog Administration</td>
<td>1,576.328</td>
<td>1,226.056</td>
<td>1,026.036</td>
<td>1,982.691</td>
<td>2,465.268</td>
</tr>
<tr>
<td>Total Expenditure</td>
<td>18,431.270</td>
<td>16,668.754</td>
<td>15,443.801</td>
<td>21,807.858</td>
<td>25,828.283</td>
</tr>
</tbody>
</table>

Source: Annual Financial Statement, Department of Public Accounts, Mof, Thimphu.
Table 13.3: The Sector-wise Government Expenditures for the FY 2013/14 to 2016/17

(Nu. in million)

<table>
<thead>
<tr>
<th>Sectors</th>
<th>2013/14</th>
<th>2014/15</th>
<th>2015/16</th>
<th>2016/17</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current</td>
<td>Capital</td>
<td>Current</td>
<td>Capital</td>
</tr>
<tr>
<td>Social Services</td>
<td>6,085.223</td>
<td>2,635.160</td>
<td>7,729.926</td>
<td>3,029.017</td>
</tr>
<tr>
<td>Health</td>
<td>2,049.465</td>
<td>924.672</td>
<td>2,473.893</td>
<td>983.760</td>
</tr>
<tr>
<td>Education</td>
<td>4,035.758</td>
<td>1,710.488</td>
<td>5,256.033</td>
<td>2,045.257</td>
</tr>
<tr>
<td>RNR Services</td>
<td>1,857.977</td>
<td>2,216.113</td>
<td>2,160.221</td>
<td>1,983.035</td>
</tr>
<tr>
<td>Mining, Manufg. &amp; Industries Services</td>
<td>158.401</td>
<td>62.712</td>
<td>192.791</td>
<td>108.490</td>
</tr>
<tr>
<td>Transport &amp; Communication Services</td>
<td>521.456</td>
<td>3,611.172</td>
<td>613.632</td>
<td>4,154.617</td>
</tr>
<tr>
<td>Energy Services</td>
<td>70.427</td>
<td>387.544</td>
<td>89.219</td>
<td>361.354</td>
</tr>
<tr>
<td>Other Economic Services</td>
<td>274.119</td>
<td>423.834</td>
<td>333.020</td>
<td>420.489</td>
</tr>
<tr>
<td>Housing &amp; Public Amenities Services</td>
<td>333.402</td>
<td>861.969</td>
<td>404.822</td>
<td>725.864</td>
</tr>
<tr>
<td>General Public Services</td>
<td>6,481.871</td>
<td>5,072.188</td>
<td>7,114.433</td>
<td>3,134.840</td>
</tr>
<tr>
<td>General Public Service</td>
<td>3,226.034</td>
<td>1,531.739</td>
<td>3,774.839</td>
<td>1,545.924</td>
</tr>
<tr>
<td>Public Debt Services</td>
<td>3,255.837</td>
<td>3,540.449</td>
<td>3,339.594</td>
<td>1,588.916</td>
</tr>
<tr>
<td>Religion &amp; Cultural Services</td>
<td>628.990</td>
<td>888.034</td>
<td>752.489</td>
<td>1,105.009</td>
</tr>
<tr>
<td>Public Order &amp; Safety Services</td>
<td>1,529.285</td>
<td>510.025</td>
<td>1,641.491</td>
<td>421.091</td>
</tr>
</tbody>
</table>

Total Expenditure                     | 17,941.151    | 16,668.751    | 21,032.044    | 15,443.806    | 22,880.592    | 21,807.856    | 24,129.587    | 25,837.023    |

Source: Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance
Table 13.4: Summary of National Revenue Collections by Source for the FY 2012/13 to 2016/17

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(1) Tax Revenue (I+II)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>(I) Direct Tax</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate Income Tax</td>
<td>4,864.28</td>
<td>6,127.43</td>
<td>6,488.78</td>
<td>7,459.58</td>
<td>8,171.42</td>
</tr>
<tr>
<td>Business Income Tax</td>
<td>1,690.63</td>
<td>1,783.89</td>
<td>1,585.02</td>
<td>1,175.30</td>
<td>1,277.26</td>
</tr>
<tr>
<td>Personal Income Tax</td>
<td>1,112.05</td>
<td>1,280.98</td>
<td>1,536.16</td>
<td>1,770.36</td>
<td>955.65</td>
</tr>
<tr>
<td><strong>Other Tax Revenue</strong></td>
<td>1,723.08</td>
<td>1,939.75</td>
<td>2,017.01</td>
<td>1,794.86</td>
<td>2,058.13</td>
</tr>
<tr>
<td>Motor Vehicle Tax</td>
<td>218.11</td>
<td>250.01</td>
<td>248.25</td>
<td>42.85</td>
<td>35.32</td>
</tr>
<tr>
<td>Business &amp; Professional Licences</td>
<td>79.56</td>
<td>93.72</td>
<td>104.95</td>
<td>87.40</td>
<td>118.38</td>
</tr>
<tr>
<td>Airport Service Tax</td>
<td>44.41</td>
<td>51.32</td>
<td>59.13</td>
<td>64.14</td>
<td>78.76</td>
</tr>
<tr>
<td>Dzongkhag Municipal tax (Recurrent taxes on immovable property)</td>
<td>3.68</td>
<td>5.58</td>
<td>8.45</td>
<td>4.24</td>
<td>3.59</td>
</tr>
<tr>
<td>Health Contribution</td>
<td>145.83</td>
<td>157.41</td>
<td>32.19</td>
<td>57.39</td>
<td>(79.86)</td>
</tr>
<tr>
<td>Royalties</td>
<td>1,231.49</td>
<td>1,381.71</td>
<td>1,564.04</td>
<td>1,538.83</td>
<td>1,901.94</td>
</tr>
<tr>
<td><strong>(II) Indirect Tax</strong></td>
<td>6,013.08</td>
<td>5,050.73</td>
<td>6,760.37</td>
<td>7,684.53</td>
<td>8,785.64</td>
</tr>
<tr>
<td>Sales Tax</td>
<td>2,171.03</td>
<td>2,162.89</td>
<td>3,060.07</td>
<td>3,576.48</td>
<td>3,800.12</td>
</tr>
<tr>
<td>Excise Duty</td>
<td>3,481.83</td>
<td>2,556.47</td>
<td>2,686.85</td>
<td>2,483.07</td>
<td>3,496.78</td>
</tr>
<tr>
<td>Customs Duty</td>
<td>305.54</td>
<td>312.79</td>
<td>447.40</td>
<td>597.39</td>
<td>562.56</td>
</tr>
<tr>
<td>Green Tax</td>
<td>35.94</td>
<td>1.68</td>
<td>545.87</td>
<td>1,007.12</td>
<td>909.65</td>
</tr>
<tr>
<td>Other Indirect Tax Revenue</td>
<td>18.75</td>
<td>16.90</td>
<td>20.18</td>
<td>20.47</td>
<td>16.52</td>
</tr>
<tr>
<td><strong>(2) Non Tax Revenue</strong></td>
<td>5,698.57</td>
<td>7,061.84</td>
<td>6,753.69</td>
<td>8,149.19</td>
<td>8,465.49</td>
</tr>
<tr>
<td>Administrative Fees &amp; Charges</td>
<td>331.06</td>
<td>349.22</td>
<td>350.52</td>
<td>714.23</td>
<td>654.50</td>
</tr>
<tr>
<td>Dividends</td>
<td>3,035.78</td>
<td>3,779.39</td>
<td>3,692.13</td>
<td>3,785.69</td>
<td>4,041.25</td>
</tr>
<tr>
<td>Revenue from Govt. Departments</td>
<td>342.61</td>
<td>357.99</td>
<td>454.17</td>
<td>498.48</td>
<td>562.71</td>
</tr>
<tr>
<td>Capital Revenue</td>
<td>88.89</td>
<td>82.36</td>
<td>110.06</td>
<td>120.45</td>
<td>193.35</td>
</tr>
<tr>
<td>Net Surplus Transfer</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>788.68</td>
<td>874.07</td>
</tr>
<tr>
<td>Other Non-Tax Revenue</td>
<td>84.27</td>
<td>81.02</td>
<td>115.37</td>
<td>86.71</td>
<td>244.95</td>
</tr>
<tr>
<td>Interest on loan from corporations</td>
<td>1,815.95</td>
<td>2,411.87</td>
<td>2,031.44</td>
<td>2,154.95</td>
<td>1,894.66</td>
</tr>
<tr>
<td><strong>Total Revenue (1+2)</strong></td>
<td>21,101.69</td>
<td>23,244.61</td>
<td>25,141.03</td>
<td>28,033.81</td>
<td>29,713.60</td>
</tr>
</tbody>
</table>

Source: National Revenue Report, Department of Revenue & Customs, MoF, Thimphu.
### Table 13.5: Fiscal Framework of Government, Bhutan 2012/13 to 2016/17 (Nu. in Millions)

<table>
<thead>
<tr>
<th>Item</th>
<th>2012/13</th>
<th>2013/14</th>
<th>2014/15</th>
<th>2015/16</th>
<th>2016/17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue &amp; Grants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic Revenue</td>
<td>21,101.691</td>
<td>23,244.610</td>
<td>25,141.030</td>
<td>28,033.812</td>
<td>29,713.600</td>
</tr>
<tr>
<td>Tax revenue</td>
<td>15,403.118</td>
<td>16,182.774</td>
<td>18,387.335</td>
<td>19,884.626</td>
<td>21,706.997</td>
</tr>
<tr>
<td>Non-tax revenue</td>
<td>5,698.573</td>
<td>7,061.836</td>
<td>6,753.695</td>
<td>8,149.186</td>
<td>8,006.603</td>
</tr>
<tr>
<td><strong>Other Receipts</strong></td>
<td>(8.210)</td>
<td>338.160</td>
<td>1,135.001</td>
<td>(884.124)</td>
<td>(27.226)</td>
</tr>
<tr>
<td>Grants</td>
<td>9,562.635</td>
<td>14,236.353</td>
<td>9,955.021</td>
<td>14,889.610</td>
<td>12,986.752</td>
</tr>
<tr>
<td><strong>Programme Grants</strong></td>
<td>2,618.453</td>
<td>1,749.693</td>
<td>2,125.000</td>
<td>2,340.015</td>
<td>2,125.000</td>
</tr>
<tr>
<td>GoI</td>
<td>1,050.00</td>
<td>1,625.00</td>
<td>2,125.00</td>
<td>1,275.00</td>
<td>2,125.00</td>
</tr>
<tr>
<td>Other Donors</td>
<td>1,568.453</td>
<td>124.693</td>
<td>...</td>
<td>1,065.015</td>
<td>...</td>
</tr>
<tr>
<td><strong>Project Tied Grants</strong></td>
<td>6,944.182</td>
<td>12,486.660</td>
<td>7,830.021</td>
<td>12,549.595</td>
<td>10,861.752</td>
</tr>
<tr>
<td>GoI</td>
<td>3,643.402</td>
<td>9,059.430</td>
<td>4,468.760</td>
<td>9,446.998</td>
<td>7,757.572</td>
</tr>
<tr>
<td>Other Donors</td>
<td>3,300.780</td>
<td>3,427.230</td>
<td>3,361.261</td>
<td>3,102.897</td>
<td>3,104.180</td>
</tr>
<tr>
<td><strong>Outlay</strong></td>
<td>34,900.809</td>
<td>33,522.834</td>
<td>34,334.259</td>
<td>43,603.000</td>
<td>48,017.988</td>
</tr>
<tr>
<td><strong>Total Expenditure</strong></td>
<td>36,527.815</td>
<td>34,609.903</td>
<td>36,475.849</td>
<td>44,688.447</td>
<td>49,966.611</td>
</tr>
<tr>
<td>Current</td>
<td>18,096.551</td>
<td>17,941.151</td>
<td>21,032.044</td>
<td>22,880.591</td>
<td>24,129.587</td>
</tr>
<tr>
<td>Capital</td>
<td>18,431.264</td>
<td>16,668.752</td>
<td>15,443.805</td>
<td>21,807.856</td>
<td>25,837.024</td>
</tr>
<tr>
<td><strong>Net lending (NL)</strong></td>
<td>(739.889)</td>
<td>(1,331.989)</td>
<td>(2,552.746)</td>
<td>(1,885.332)</td>
<td>(2,003.122)</td>
</tr>
<tr>
<td>Advance/Suspense (Net)</td>
<td>(887.117)</td>
<td>244.920</td>
<td>411.156</td>
<td>799.885</td>
<td>54.499</td>
</tr>
<tr>
<td><strong>Overall Balance</strong></td>
<td>(4,244.692)</td>
<td>4,296.289</td>
<td>1,896.795</td>
<td>(1,563.702)</td>
<td>(5,344.862)</td>
</tr>
<tr>
<td><strong>Financing</strong></td>
<td>(3,260.080)</td>
<td>(4,120.987)</td>
<td>(1,896.795)</td>
<td>1,563.702</td>
<td>5,344.862</td>
</tr>
<tr>
<td>Net Borrowings</td>
<td>492.306</td>
<td>(867.009)</td>
<td>(1,086.409)</td>
<td>(1,215.482)</td>
<td>524.326</td>
</tr>
<tr>
<td>Borrowings</td>
<td>16,463.456</td>
<td>1,534.544</td>
<td>1,685.268</td>
<td>1,818.681</td>
<td>3,227.662</td>
</tr>
<tr>
<td>Repayments</td>
<td>15,971.150</td>
<td>2,401.553</td>
<td>2,771.677</td>
<td>3,034.163</td>
<td>2,703.336</td>
</tr>
<tr>
<td><strong>Resource Gap</strong></td>
<td>(3,752.386)</td>
<td>(3,253.978)</td>
<td>(810.386)</td>
<td>(2,779.184)</td>
<td>(4,820.536)</td>
</tr>
</tbody>
</table>

*Source: Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance*
Table 13.6: Revenue Collection by Sector, FY 2012/13 To 2016/17  
(Nu. in Millions)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary (Agriculture)</td>
<td>372.31</td>
<td>403.42</td>
<td>629.69</td>
<td>403.31</td>
<td>533.32</td>
</tr>
<tr>
<td>Industry</td>
<td>4,307.93</td>
<td>5,269.80</td>
<td>5,122.11</td>
<td>5,981.96</td>
<td>3,719.05</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>602.77</td>
<td>548.44</td>
<td>682.44</td>
<td>554.68</td>
<td>528.91</td>
</tr>
<tr>
<td>Electricity</td>
<td>3,705.16</td>
<td>4,721.36</td>
<td>4,439.66</td>
<td>5,427.28</td>
<td>3,190.14</td>
</tr>
<tr>
<td>Service</td>
<td>11,291.41</td>
<td>10,736.61</td>
<td>12,862.40</td>
<td>15,340.30</td>
<td>18,298.41</td>
</tr>
<tr>
<td>Services (Transport, communication, hotel &amp; restaurant)</td>
<td>2,739.81</td>
<td>2,962.02</td>
<td>4,776.74</td>
<td>5,152.81</td>
<td>7,235.51</td>
</tr>
<tr>
<td>Trade</td>
<td>7,816.84</td>
<td>7,122.25</td>
<td>7,444.50</td>
<td>8,227.40</td>
<td>9,102.63</td>
</tr>
<tr>
<td>Finance</td>
<td>734.76</td>
<td>652.34</td>
<td>641.16</td>
<td>1,960.09</td>
<td>1,960.27</td>
</tr>
<tr>
<td>Gross Sectoral Revenue Collection ¹</td>
<td>15,971.65</td>
<td>16,409.83</td>
<td>18,614.19</td>
<td>21,725.57</td>
<td>22,550.78</td>
</tr>
</tbody>
</table>

Note: ¹ Sectoral revenue are based on gross collection and excludes PIT collections, Druk Holding Investment (DHI) dividends and interest receipts on loan from corporations.

Source: National Revenue Report, Department of Revenue & Customs, Ministry of Finance
### Table 13.7: Government Debt Stock & Debt Service, 2011/12 to 2015/16

(Nu. in Millions)

<table>
<thead>
<tr>
<th>Debt</th>
<th>2011/12</th>
<th>2012/13</th>
<th>2013/14</th>
<th>2014/15</th>
<th>2015/16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Public Debt</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic Debt</td>
<td>1,092.55</td>
<td>6,342.72</td>
<td>2,913.44</td>
<td>2,106.81</td>
<td>4,656.12</td>
</tr>
<tr>
<td><strong>External Debt</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indian Rupee Debt</td>
<td>32,546.30</td>
<td>60,826.65</td>
<td>67,870.16</td>
<td>81,183.64</td>
<td>115,393.82</td>
</tr>
<tr>
<td>Convertible Currency Debt</td>
<td>29,174.26</td>
<td>34,140.82</td>
<td>37,586.76</td>
<td>37,492.55</td>
<td>40,512.13</td>
</tr>
<tr>
<td><strong>Total Debt Service</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domestic</td>
<td>5,067.55</td>
<td>13,253.95</td>
<td>12,719.04</td>
<td>15,639.24</td>
<td>21,202.62</td>
</tr>
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*Source: Annual Financial Statement (AFS), Department of Public Accounts, Ministry of Finance*
Development planning in Bhutan can be tracked back to the year 1961 when the first Five Year Plan (1961/62 to 1965/66) was drawn up. Initially, self-contained development secretariat was established to implement the plan. At the time of preparation of the third plan in 1971, the Planning Commission (now, Gross National Happiness Commission) was established headed by the His Majesty the King. In the absence of basic economic information and skilled manpower, the formulation of the third plan, like earlier ones was relatively simple. Major developments in regard to the consolidation of the planning process took place in the fourth plan period, when the Dzongkhags were involved in the development process.

The **Ninth Five Year Plan (2002-2007)** focused on five major goals; 1. Improve the quality of life and income, 2. Ensure good governance, 3. Promote private sector growth and employment generation, 4. Preserve and promote cultural heritage and conversation of environment, 5. Achieve rapid economic growth and transformation. The plan, as a whole, emphasized on perusing maximization of Gross National Happiness as a development goal and an objective.

The **Tenth Five Year Plan (2008-2013)** began in July 2007 will peruse towards poverty reduction as a primary goal, achieving country’s long term development vision GNH and Bhutan’s commitment towards global compacts, including MDGs.

The **Eleventh Five Year Plan (2013-2018)** is the second five year plan to be implemented since the introduction of Democratic Constitutional Monarchy in 2008. A notable paradigm shift of the 11th FYP is the adoption of a result based planning (RBP) framework that articulates clear outcomes and outputs that need to be achieved in order to realize the eleventh plan objectives of “Self –reliance and Inclusive Green Socio-Economic Development”.

![Dzongkhag wise Eleventh Five Year Plan Capital outlay, 2013-2018](chart.png)
### Table 14.1: Tenth Plan Budgetary Outlay and Allocation, Bhutan (2008-2013)

(Nu. in Million)

<table>
<thead>
<tr>
<th>Organization</th>
<th>Recurrent</th>
<th>Capital</th>
<th>Total</th>
<th>Percent</th>
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### Table 14.2: Eleventh Plan Budgetary Outlay and Allocation, Bhutan (2013-2018)

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<th>% of Total</th>
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<td>25.50</td>
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<td>334.20</td>
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<td><strong>55,657.19</strong></td>
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<td>8,372.49</td>
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<td>320.00</td>
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<td>4,306.82</td>
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<td>3,702.00</td>
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<td>3,548.43</td>
<td>4,617.01</td>
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<td><strong>2,910.66</strong></td>
<td><strong>1.36</strong></td>
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<td>2,000.00</td>
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<td>Other Capital (Vehicles, misc. exigences etc.)</td>
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<td>910.66</td>
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<td><strong>67,150.00</strong></td>
<td><strong>151,812.14</strong></td>
<td><strong>71.18</strong></td>
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<td><strong>24,850.00</strong></td>
<td><strong>61,479.32</strong></td>
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<td>53,578.44</td>
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<td>4,850.00</td>
<td>2.27</td>
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<td>3,050.88</td>
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<td><strong>Total Outlay</strong></td>
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<td><strong>92,000.00</strong></td>
<td><strong>213,291.46</strong></td>
<td><strong>100.00</strong></td>
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Table 14.3: Dzongkhag Wise Ninth Five Year Plan Outlay, Bhutan (2002 - 2007)

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<th>Capital</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bumthang</td>
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<td>473.8</td>
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<td>797.9</td>
<td>1,445.5</td>
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<tr>
<td>Dagana</td>
<td>197.2</td>
<td>315.1</td>
<td>512.3</td>
</tr>
<tr>
<td>Gasa</td>
<td>98.9</td>
<td>145.8</td>
<td>244.7</td>
</tr>
<tr>
<td>Ha</td>
<td>252.7</td>
<td>290.1</td>
<td>542.8</td>
</tr>
<tr>
<td>Lhuentse</td>
<td>269.1</td>
<td>617.3</td>
<td>886.3</td>
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<td>Monggar</td>
<td>496.6</td>
<td>651.5</td>
<td>1,148.1</td>
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<tr>
<td>Paro</td>
<td>487.7</td>
<td>602.5</td>
<td>1,090.1</td>
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<tr>
<td>Pemagatshel</td>
<td>309.3</td>
<td>444.5</td>
<td>753.8</td>
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<tr>
<td>Punakha</td>
<td>355.9</td>
<td>303.0</td>
<td>658.9</td>
</tr>
<tr>
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<td>523.5</td>
<td>645.2</td>
<td>1,168.7</td>
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<td>592.9</td>
<td>920.6</td>
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<td>994.2</td>
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<td>357.1</td>
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<tr>
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<td>671.5</td>
<td>781.3</td>
<td>1,452.8</td>
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<tr>
<td>Trongsa</td>
<td>255.9</td>
<td>309.4</td>
<td>565.3</td>
</tr>
<tr>
<td>Tsirang</td>
<td>210.1</td>
<td>316.6</td>
<td>526.7</td>
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<tr>
<td>Wangdue Phodrang</td>
<td>414.9</td>
<td>355.8</td>
<td>770.7</td>
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<tr>
<td>Zhemgang</td>
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<td>425.4</td>
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Table 14.4: Dzongkhag Wise Tenth Five Year Plan Outlay (2008 - 2013)

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<td>567.8</td>
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<td>58.9</td>
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<tr>
<td>Ha</td>
<td>...</td>
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<td>123.6</td>
</tr>
<tr>
<td>Lhuentse</td>
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<td>292.6</td>
<td>519.5</td>
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<td>529.0</td>
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<td>753.4</td>
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<td>522.0</td>
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<td>358.0</td>
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<td>...</td>
<td>715.2</td>
<td>715.2</td>
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<td>369.3</td>
<td>316.7</td>
<td>686.0</td>
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<td>177.8</td>
<td>177.8</td>
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Note: Capital budget does not include the gewogs capital budget

Source: Gross National Happiness Commission (GNHC), Thimphu.
Table 14.5: Dzongkhag Wise Eleventh Five Year Plan Outlay (2013 - 2018)

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## Table 14.6: Indicative Capital Allocation to Gewogs, Eleventh Five Year Plan (2013-2018)

(Nu. In million)

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<th>Capital</th>
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<td>Lajab</td>
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<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>303.706</strong></td>
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</tbody>
</table>

The System of National Accounts (SNA) is a systematic framework of accounts that measures the level of economic development and the rate of economic growth over time. It gives a macroeconomic depiction of how the economy as a whole functions and its relationship with the rest of the world. This is measured conventionally through Gross Domestic Product (GDP).

GDP represents the end result of all economic activities that take place in the economy. It is the sum total of value of all goods and services produced within the economic boundary of the country, which are available for final uses such as consumption, investment and exports.

GDP is measured both in current and constant prices. The base year for GDP estimation in Bhutan is the year 2000. The current price estimate reflects the monetary value of all goods and services produced in the economy at prices prevailing in the year of reporting, while the constant price estimate reflects the monetary value of all goods and services at the base year prices. The estimation and compilation methodology is as per the United Nations System of National Accounting. GDP in Bhutan is estimated using production and expenditure approach.

The objective of the National Accounts Report is to provide timely, comprehensive and reliable description of the condition and performance of the economy. This is done through measurement of GDP, Gross National Income (GNI), and Final Consumption Expenditure (FCE), Gross Capital Formation (GCF), Saving and Net Exports. These information serve as useful and critical information to politicians, policy makers, planners, academicians, researchers and other users in the overall socio-economic planning and policy formulation, monitoring, analysis, and evaluation of the performance of the economy.
(Nu. in million)

<table>
<thead>
<tr>
<th>Sectors</th>
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<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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<td>9,829.28</td>
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<td><strong>GDP</strong></td>
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<td><strong>119,545.75</strong></td>
<td><strong>132,021.30</strong></td>
<td><strong>148,678.93</strong></td>
<td><strong>164,627.92</strong></td>
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*Source: National Accounts Statistics, NSB*

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<th>Sectors</th>
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<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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Source: National Accounts Statistics, NSB
### Table 15.3: Sectoral Growth Rates of GDP in Constant Prices, (2013 - 2017)

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<th>2017</th>
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<td>7.43</td>
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<td>(3.81)</td>
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<td>7.44</td>
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<td>(3.83)</td>
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<td>10.00</td>
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<td>5. Construction</td>
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<td>3.73</td>
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<td>7.99</td>
<td>4.63</td>
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</table>

*Source: National Accounts Statistics, NSB*
(Nu. in Million)

<table>
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<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Primary</td>
<td>16,969.71</td>
<td>20,050.39</td>
<td>22,007.59</td>
<td>24,565.44</td>
<td>28,591.14</td>
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<tr>
<td>2. Secondary</td>
<td>44,628.72</td>
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<td>55,439.86</td>
<td>62,476.43</td>
<td>69,250.71</td>
</tr>
<tr>
<td>Overall GDP</td>
<td>105,378.35</td>
<td>119,545.75</td>
<td>132,021.30</td>
<td>148,678.93</td>
<td>164,627.92</td>
</tr>
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</table>

Source: National Accounts Statistics, NSB

Table 15.5: Percentage Share of GDP by Major Sector in Current Prices, (2013 - 2017)

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<th>2017</th>
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<td>0.41</td>
<td>0.41</td>
<td>0.41</td>
<td>40.57</td>
</tr>
<tr>
<td>3. Tertiary</td>
<td>0.42</td>
<td>0.43</td>
<td>0.42</td>
<td>0.42</td>
<td>42.06</td>
</tr>
<tr>
<td>Overall GDP</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Source: National Accounts Statistics, NSB

Table 15.6: Year on Year GDP Growth, (2013-2017)
(in Percent)

<table>
<thead>
<tr>
<th>Sector</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Primary</td>
<td>2.40</td>
<td>0.31</td>
<td>0.59</td>
<td>3.65</td>
<td>3.39</td>
</tr>
<tr>
<td>2. Secondary</td>
<td>3.90</td>
<td>1.64</td>
<td>3.52</td>
<td>6.79</td>
<td>2.41</td>
</tr>
<tr>
<td>3. Tertiary</td>
<td>0.30</td>
<td>3.79</td>
<td>2.39</td>
<td>10.48</td>
<td>7.15</td>
</tr>
<tr>
<td>Overall GDP</td>
<td>2.14</td>
<td>5.75</td>
<td>6.49</td>
<td>7.99</td>
<td>4.63</td>
</tr>
</tbody>
</table>

Source: National Accounts Statistics, NSB
Table 15.7: GDP by Expenditure at Current Prices, (2013 - 2017)

<table>
<thead>
<tr>
<th>Description</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Final Consumption Expenditure</td>
<td>71,637.26</td>
<td>82,900.68</td>
<td>96,496.79</td>
<td>100,732.35</td>
<td>113,926.90</td>
</tr>
<tr>
<td>Households &amp; NPISHs</td>
<td>53,362.80</td>
<td>62,706.64</td>
<td>73,031.24</td>
<td>75,670.97</td>
<td>86,867.04</td>
</tr>
<tr>
<td>General Government</td>
<td>18,274.46</td>
<td>20,194.04</td>
<td>23,465.55</td>
<td>25,061.39</td>
<td>27,059.85</td>
</tr>
<tr>
<td>2. Gross Domestic Capital Formation</td>
<td>48,432.57</td>
<td>61,813.47</td>
<td>71,286.96</td>
<td>82,700.52</td>
<td>84,386.26</td>
</tr>
<tr>
<td>a. Construction</td>
<td>40,414.59</td>
<td>46,352.54</td>
<td>48,392.69</td>
<td>55,265.46</td>
<td>57,284.00</td>
</tr>
<tr>
<td>b. Machinery &amp; Equipment</td>
<td>8,155.02</td>
<td>17,061.61</td>
<td>22,984.31</td>
<td>26,020.49</td>
<td>24,821.87</td>
</tr>
<tr>
<td>c. Software, database dev.(gov)</td>
<td>193.48</td>
<td>350.83</td>
<td>210.71</td>
<td>433.17</td>
<td>2,368.72</td>
</tr>
<tr>
<td>d. Valuables</td>
<td>215.65</td>
<td>236.86</td>
<td>47.96</td>
<td>95.32</td>
<td>86.50</td>
</tr>
<tr>
<td>e. Changes in Inventories</td>
<td>(546.17)</td>
<td>(2,188.36)</td>
<td>(348.70)</td>
<td>886.08</td>
<td>(174.83)</td>
</tr>
<tr>
<td>3. Net Export</td>
<td>(22,988.64)</td>
<td>(25,168.39)</td>
<td>(35,762.45)</td>
<td>(34,753.94)</td>
<td>(33,685.24)</td>
</tr>
<tr>
<td>Export of Goods &amp; Services</td>
<td>42,636.41</td>
<td>43,376.76</td>
<td>43,414.41</td>
<td>44,184.40</td>
<td>47,893.47</td>
</tr>
<tr>
<td>Import of Goods &amp; Services</td>
<td>65,625.05</td>
<td>68,545.15</td>
<td>79,176.85</td>
<td>78,938.345</td>
<td>81,578.709</td>
</tr>
<tr>
<td>GDP, Expenditure</td>
<td>97,081.19</td>
<td>119,545.75</td>
<td>132,021.30</td>
<td>148,678.93</td>
<td>164,627.92</td>
</tr>
</tbody>
</table>

Source: National Accounts Statistics, NSB
### Table 15.8: GDP Share of Expenditure at Current Prices, (2013 - 2017)

<table>
<thead>
<tr>
<th>Expenditure</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Final Consumption Expenditure</td>
<td>73.79</td>
<td>69.35</td>
<td>73.09</td>
<td>67.75</td>
<td>69.20</td>
</tr>
<tr>
<td>Households &amp; NPISHs</td>
<td>54.97</td>
<td>52.45</td>
<td>55.32</td>
<td>50.90</td>
<td>52.77</td>
</tr>
<tr>
<td>General Government</td>
<td>18.82</td>
<td>16.89</td>
<td>17.77</td>
<td>16.86</td>
<td>16.44</td>
</tr>
<tr>
<td>2. Gross Domestic Capital Formation</td>
<td>49.89</td>
<td>51.71</td>
<td>54.00</td>
<td>55.62</td>
<td>51.26</td>
</tr>
<tr>
<td>Construction</td>
<td>41.63</td>
<td>38.77</td>
<td>36.66</td>
<td>37.17</td>
<td>34.80</td>
</tr>
<tr>
<td>Machinery &amp; Equipment</td>
<td>8.40</td>
<td>14.27</td>
<td>17.41</td>
<td>17.50</td>
<td>15.08</td>
</tr>
<tr>
<td>Software data base dev.</td>
<td>0.20</td>
<td>0.29</td>
<td>0.16</td>
<td>0.29</td>
<td>1.44</td>
</tr>
<tr>
<td>Nvaluables</td>
<td>0.22</td>
<td>0.20</td>
<td>0.04</td>
<td>0.06</td>
<td>0.05</td>
</tr>
<tr>
<td>Changes in Inventories</td>
<td>(0.56)</td>
<td>(1.83)</td>
<td>(0.26)</td>
<td>0.60</td>
<td>(0.11)</td>
</tr>
<tr>
<td>3. Net Export</td>
<td>(23.68)</td>
<td>(21.05)</td>
<td>(27.09)</td>
<td>(23.38)</td>
<td>(20.46)</td>
</tr>
<tr>
<td>Export of Goods &amp; Services</td>
<td>43.92</td>
<td>36.28</td>
<td>32.88</td>
<td>29.72</td>
<td>29.09</td>
</tr>
<tr>
<td>Import of Goods &amp; Services</td>
<td>67.60</td>
<td>57.34</td>
<td>59.97</td>
<td>53.09</td>
<td>49.55</td>
</tr>
<tr>
<td>GDP, Expenditure</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

*Source: National Accounts Statistics, NSB*
Price statistics is an important macro-economic indicator to monitor the overall price movement in the economy. It provides information on inflationary trends in the economy which is essential for formulation of monetary and fiscal policies. It is also used in various other purposes like adjustment of income, deflator in economic series like GDP, business analysis, cost escalation, etc.

Bhutan currently compiles and publishes two price indices namely the Consumer Price Index (CPI) and the Producer Price Index (PPI). CPI is a measure of average price change over time in the prices of goods & services purchased by households whereas PPI is a measure of average price change over time in the prices of goods & services sold by domestic producers. CPI measures price change from a consumer’s perspective while PPI measures price change from a producer’s perspective.

Bhutan started the first compilation of CPI in 1979. CPI was published biannually from 1979 to 2003, and quarterly from third quarter of 2003 till fourth quarter of 2012. However, starting from January 2013 CPI is produced on a monthly basis. The index reference period is December 2012=100 based on which the relative index changes are compared. The current CPI is rebased using the recent BLSS 2012 data and reflects the latest expenditure pattern of the Bhutanese households.

The first PPI was published for 2nd quarter 2011. It is a quarterly publication, and provides monthly indices as well for monitoring price movements on a monthly basis. It includes sectors such as Logging, Mining & Quarrying, Manufacturing, Electricity & Water, Transport and Communication. PPI is compiled by economic activity using the International Standard Industrial Classification (ISIC rev. 4) and by Product group using the Central Product Classification (CPC ver. 2). The weight reference period for PPI is 2010 and the relative index changes are calculated based on September 2011=100 as the index reference period.
### Table 16.1: Year on Year Inflation

<table>
<thead>
<tr>
<th>Group</th>
<th>Weights</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Jan</td>
</tr>
<tr>
<td>Food</td>
<td>39.92</td>
<td>6.35</td>
</tr>
<tr>
<td>Non-Food</td>
<td>60.08</td>
<td>4.28</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
<td><strong>5.10</strong></td>
</tr>
</tbody>
</table>

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

### Table 16.2: Year-on-Year Percent Change by Group Level

<table>
<thead>
<tr>
<th>12 Major Groups</th>
<th>Weights</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Jan</td>
</tr>
<tr>
<td>Food and non-alcoholic Beverages</td>
<td>36.88</td>
<td>6.74</td>
</tr>
<tr>
<td>Alcoholic Beverages and Narcotics</td>
<td>3.03</td>
<td>1.71</td>
</tr>
<tr>
<td>Clothing and Footwear</td>
<td>9.20</td>
<td>3.81</td>
</tr>
<tr>
<td>Housing, Water, Electricity, Gas and other Fuels</td>
<td>21.70</td>
<td>6.96</td>
</tr>
<tr>
<td>Furnishing, Household Equipment and Routine Maintenance of the House.</td>
<td>2.22</td>
<td>1.26</td>
</tr>
<tr>
<td>Health</td>
<td>4.67</td>
<td>-0.18</td>
</tr>
<tr>
<td>Transport</td>
<td>11.98</td>
<td>4.27</td>
</tr>
<tr>
<td>Communication</td>
<td>3.03</td>
<td>-0.01</td>
</tr>
<tr>
<td>Recreational and Culture</td>
<td>2.35</td>
<td>1.17</td>
</tr>
<tr>
<td>Education</td>
<td>1.64</td>
<td>6.83</td>
</tr>
<tr>
<td>Restuarents and Hotels</td>
<td>1.24</td>
<td>1.95</td>
</tr>
<tr>
<td>Miscellaneous Goods and Services</td>
<td>2.06</td>
<td>1.63</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100.00</strong></td>
<td><strong>5.10</strong></td>
</tr>
</tbody>
</table>

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu
### Table 16.1: Year on Year Inflation

<table>
<thead>
<tr>
<th>Group</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jan</td>
</tr>
<tr>
<td>Food</td>
<td>39.92</td>
</tr>
<tr>
<td>Non-Food</td>
<td>60.08</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
</tr>
</tbody>
</table>

**Source:** CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

### Table 16.2: Year-on-Year Percent Change by Group Level

<table>
<thead>
<tr>
<th>12 Major Groups</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jan</td>
<td>Feb</td>
</tr>
<tr>
<td>Food and non-alcoholic</td>
<td>36.88</td>
<td>6.74</td>
</tr>
<tr>
<td>Beverages</td>
<td>6.96</td>
<td>8.08</td>
</tr>
<tr>
<td>Alcoholic Beverages</td>
<td>3.03</td>
<td>1.71</td>
</tr>
<tr>
<td>Narcotics</td>
<td>3.03</td>
<td>-0.01</td>
</tr>
<tr>
<td>Housing, Water,</td>
<td>21.70</td>
<td>6.55</td>
</tr>
<tr>
<td>Electricity, Gas and</td>
<td>2.22</td>
<td>1.26</td>
</tr>
<tr>
<td>other Fuels</td>
<td>4.67</td>
<td>-0.18</td>
</tr>
<tr>
<td>Furnishing, Household</td>
<td>11.98</td>
<td>4.27</td>
</tr>
<tr>
<td>Equipment and Routine</td>
<td>2.35</td>
<td>1.17</td>
</tr>
<tr>
<td>Maintenance of the House.</td>
<td>1.64</td>
<td>6.83</td>
</tr>
<tr>
<td>Health</td>
<td>1.58</td>
<td>1.55</td>
</tr>
<tr>
<td>Transport</td>
<td>4.91</td>
<td>4.86</td>
</tr>
</tbody>
</table>

**Source:** CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

### Table 16.3: Year on Year Percent Change by Group Level

<table>
<thead>
<tr>
<th>Group</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jan</td>
<td>Feb</td>
</tr>
<tr>
<td>Food and non-alcoholic Beverages</td>
<td>6.27</td>
<td>7.08</td>
</tr>
<tr>
<td>Alcoholic Beverages and Narcotics</td>
<td>1.28</td>
<td>1.33</td>
</tr>
<tr>
<td>Housing, Water, Electricity, Gas and other Fuels</td>
<td>3.81</td>
<td>3.24</td>
</tr>
<tr>
<td>Furnishing, Household Equipment and Routine Maintenance of the House</td>
<td>2.17</td>
<td>1.82</td>
</tr>
<tr>
<td>Health</td>
<td>4.67</td>
<td>-0.18</td>
</tr>
<tr>
<td>Transport</td>
<td>11.98</td>
<td>4.27</td>
</tr>
<tr>
<td>Communication</td>
<td>3.03</td>
<td>-0.01</td>
</tr>
<tr>
<td>Recreational and Culture</td>
<td>2.35</td>
<td>1.17</td>
</tr>
<tr>
<td>Education</td>
<td>1.64</td>
<td>6.83</td>
</tr>
<tr>
<td>Restaurants and Hotels</td>
<td>1.58</td>
<td>1.55</td>
</tr>
<tr>
<td>Miscellaneous Goods and Services</td>
<td>2.22</td>
<td>1.26</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
<td>5.10</td>
</tr>
</tbody>
</table>
Table 16.3: Month-on-Month Index and Percent Change in the CPI by Overall Index

<table>
<thead>
<tr>
<th>Year</th>
<th>Month/weight</th>
<th>Index (December 2012=100)</th>
<th>Percent Change (%)</th>
<th>Purchasing Power of Ngultrum (Nu.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Food</td>
<td>Non-Food</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weights</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>125.07</td>
<td>121.90</td>
<td>123.16</td>
</tr>
<tr>
<td>2016</td>
<td>Jan</td>
<td>124.68</td>
<td>122.29</td>
<td>123.24</td>
</tr>
<tr>
<td></td>
<td>Feb</td>
<td>124.69</td>
<td>122.44</td>
<td>123.33</td>
</tr>
<tr>
<td></td>
<td>Mar</td>
<td>124.85</td>
<td>122.65</td>
<td>123.52</td>
</tr>
<tr>
<td></td>
<td>Apr</td>
<td>125.23</td>
<td>122.87</td>
<td>123.80</td>
</tr>
<tr>
<td></td>
<td>May</td>
<td>126.76</td>
<td>123.07</td>
<td>124.53</td>
</tr>
<tr>
<td></td>
<td>Jun</td>
<td>127.26</td>
<td>123.22</td>
<td>124.82</td>
</tr>
<tr>
<td></td>
<td>Jul</td>
<td>127.90</td>
<td>123.47</td>
<td>125.22</td>
</tr>
<tr>
<td></td>
<td>Aug</td>
<td>128.61</td>
<td>123.67</td>
<td>125.62</td>
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<tr>
<td></td>
<td>Sep</td>
<td>129.36</td>
<td>124.01</td>
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<td></td>
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<td>131.66</td>
<td>125.38</td>
<td>127.85</td>
</tr>
<tr>
<td></td>
<td>Nov</td>
<td>132.35</td>
<td>126.49</td>
<td>128.80</td>
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<tr>
<td></td>
<td>Dec</td>
<td>133.01</td>
<td>127.12</td>
<td>129.44</td>
</tr>
<tr>
<td></td>
<td>Jan</td>
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<td>2017</td>
<td>Feb</td>
<td>132.54</td>
<td>127.68</td>
<td>129.60</td>
</tr>
<tr>
<td></td>
<td>Mar</td>
<td>135.31</td>
<td>127.64</td>
<td>130.65</td>
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<tr>
<td></td>
<td>Apr</td>
<td>135.35</td>
<td>127.87</td>
<td>130.80</td>
</tr>
<tr>
<td></td>
<td>May</td>
<td>135.04</td>
<td>127.85</td>
<td>130.67</td>
</tr>
<tr>
<td></td>
<td>Jun</td>
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<td>Jul</td>
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<td>Sep</td>
<td>138.36</td>
<td>128.34</td>
<td>132.25</td>
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<td></td>
<td>Oct</td>
<td>140.03</td>
<td>127.86</td>
<td>132.59</td>
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<tr>
<td></td>
<td>Nov</td>
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<td>133.05</td>
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<td></td>
<td>Dec</td>
<td>141.92</td>
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<td></td>
<td>Jan</td>
<td>142.42</td>
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<td>2018</td>
<td>Feb</td>
<td>142.92</td>
<td>128.03</td>
<td>133.78</td>
</tr>
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<td></td>
<td>Mar</td>
<td>142.76</td>
<td>128.44</td>
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<td></td>
<td>Apr</td>
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</tr>
<tr>
<td></td>
<td>May</td>
<td>141.92</td>
<td>128.99</td>
<td>134.00</td>
</tr>
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</table>

Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu
### Table 16.4: Month-on-Month Index and Percent Change by Domestic

<table>
<thead>
<tr>
<th>Year</th>
<th>Month/weight</th>
<th>Group</th>
<th>Group</th>
<th>Group</th>
<th>Group</th>
<th>Group</th>
</tr>
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Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu

### Table 16.5: Month-on-Month Index and Percent Change by Imported

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Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu
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Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu
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Source: CPI Bulletin June 2018, Economic and Environment Statistics Division, NSB, Thimphu
Table 16.7: Monthly Producer Price Index (PPI) by Industry (September 2011=100)

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<tr>
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<td>89.76</td>
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<td>89.76</td>
<td>89.76</td>
<td>89.76</td>
<td>89.76</td>
</tr>
<tr>
<td>All Industry</td>
<td>41.36</td>
<td>117.72</td>
<td>117.90</td>
<td>119.41</td>
<td>121.11</td>
<td>120.93</td>
<td>120.80</td>
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Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.

Table 16.8: Monthly Percentage Change in Producer Price Index (PPI) by Industry

<table>
<thead>
<tr>
<th>Sectors</th>
<th>Share (%)</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture, Forestry and Logging</td>
<td>0.72</td>
<td>2.48</td>
<td>0.00</td>
<td>0.00</td>
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</tr>
<tr>
<td>Mining and quarrying</td>
<td>0.89</td>
<td>1.82</td>
<td>1.07</td>
<td>-1.06</td>
<td>-0.34</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>1.55</td>
<td>0.46</td>
<td>0.27</td>
<td>2.88</td>
<td>3.13</td>
</tr>
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<td>Electricity, gas, steam and air conditioning supply</td>
<td>35.35</td>
<td>7.66</td>
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<td>Transport and Storage</td>
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<tr>
<td>All Industry</td>
<td>41.36</td>
<td>3.00</td>
<td>0.16</td>
<td>1.28</td>
<td>1.42</td>
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Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.

Table 16.9: Annual Percentage Change in Producer Price Index (PPI) by Industry

<table>
<thead>
<tr>
<th>Sectors</th>
<th>Share (%)</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
</tr>
</thead>
<tbody>
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<td>Agriculture, Forestry and Logging</td>
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<td>5.05</td>
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<td>5.71</td>
<td>5.71</td>
<td>5.71</td>
<td>5.71</td>
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<td>1.74</td>
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Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.
### Table 16.7: Monthly Producer Price Index (PPI) by Industry (September 2011=100)

<table>
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<tr>
<th>Sector</th>
<th>2017</th>
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<td></td>
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<td>Electricity, gas, steam and air conditioning supply</td>
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Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.

### Table 16.8: Monthly Percentage Change in Producer Price Index (PPI) by Industry

<table>
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<tr>
<th>Sector</th>
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<th>2018</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Jan</td>
<td>Feb</td>
</tr>
<tr>
<td>Agriculture, Forestry and Logging</td>
<td>0.72</td>
<td>2.48</td>
</tr>
<tr>
<td>Mining and quarrying</td>
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<td>1.82</td>
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<tr>
<td>Manufacturing</td>
<td>1.55</td>
<td>0.46</td>
</tr>
<tr>
<td>Electricity, gas, steam and air conditioning supply</td>
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<td>7.66</td>
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<tr>
<td>Water supply; sewerage, waste management and remediation activities</td>
<td>0.08</td>
<td>0.00</td>
</tr>
<tr>
<td>Transport and Storage</td>
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<td>0.08</td>
</tr>
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<td>Information and communication</td>
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<td>0.00</td>
</tr>
<tr>
<td>All Industry</td>
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<td>3.00</td>
</tr>
</tbody>
</table>

Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.

### Table 16.9: Annual Percentage Change in Producer Price Index (PPI) by Industry

<table>
<thead>
<tr>
<th>Sector</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jan</td>
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<tr>
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<td>0.72</td>
<td>17.04</td>
</tr>
<tr>
<td>Mining and quarrying</td>
<td>0.95</td>
<td>5.05</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0.35</td>
<td>5.71</td>
</tr>
<tr>
<td>Electricity, gas, steam and air conditioning supply</td>
<td>0.02</td>
<td>1.74</td>
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<tr>
<td>Water supply; sewerage, waste management and remediation activities</td>
<td>4.07</td>
<td>0.00</td>
</tr>
<tr>
<td>Transport and Storage</td>
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<td>Information and communication</td>
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<tr>
<td>All Industry</td>
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<td>3.60</td>
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Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.
### Table 16.10: Monthly Producer Price Index (PPI) by Product

<table>
<thead>
<tr>
<th>Description</th>
<th>Share (%)</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
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<tbody>
<tr>
<td>Agriculture, Forestry and Fishery Products</td>
<td>0.72</td>
<td>134.79</td>
<td>134.79</td>
<td>134.79</td>
<td>134.79</td>
<td>134.79</td>
<td>134.79</td>
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<tr>
<td>Ores and Minerals; Electricity, gas and water</td>
<td>5.81</td>
<td>127.85</td>
<td>129.22</td>
<td>127.84</td>
<td>127.41</td>
<td>127.49</td>
<td>125.85</td>
</tr>
<tr>
<td>Food products, beverages and tobacco; textiles, apparel and leather products</td>
<td>3.56</td>
<td>112.34</td>
<td>112.34</td>
<td>112.29</td>
<td>112.63</td>
<td>112.63</td>
<td>112.38</td>
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<tr>
<td>Other transportable goods, except metal products, machinery and equipment</td>
<td>15.36</td>
<td>119.70</td>
<td>120.64</td>
<td>121.96</td>
<td>126.06</td>
<td>127.34</td>
<td>127.44</td>
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<tr>
<td>Metal products, machinery and equipment</td>
<td>28.75</td>
<td>110.45</td>
<td>110.49</td>
<td>115.15</td>
<td>119.01</td>
<td>117.77</td>
<td>117.59</td>
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<tr>
<td>Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services</td>
<td>41.34</td>
<td>124.69</td>
<td>124.59</td>
<td>124.53</td>
<td>124.41</td>
<td>124.41</td>
<td>124.41</td>
</tr>
<tr>
<td>Business and production services</td>
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<td>89.76</td>
<td>89.76</td>
<td>89.76</td>
<td>89.76</td>
<td>89.76</td>
</tr>
<tr>
<td><strong>All Product</strong></td>
<td><strong>100.00</strong></td>
<td><strong>117.72</strong></td>
<td><strong>117.90</strong></td>
<td><strong>119.41</strong></td>
<td><strong>121.11</strong></td>
<td><strong>120.93</strong></td>
<td><strong>120.80</strong></td>
</tr>
</tbody>
</table>

*Source: PPI 2nd Qtr 2015, National Accounts Division, NSB, Thimphu.*

### Table 16.11: Monthly Percentage Change in Producer Price Index (PPI) by Product

<table>
<thead>
<tr>
<th>Description</th>
<th>Share (%)</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture, Forestry and Fishery Products</td>
<td>0.72</td>
<td>2.48</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Ores and Minerals; Electricity, gas and water</td>
<td>5.81</td>
<td>1.82</td>
<td>1.07</td>
<td>-1.06</td>
<td>-0.34</td>
</tr>
<tr>
<td>Food products, beverages and tobacco; textiles, apparel and leather products</td>
<td>3.56</td>
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<td>0.00</td>
<td>-0.04</td>
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<tr>
<td>Other transportable goods, except metal products, machinery and equipment</td>
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<td>3.36</td>
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<td>Metal products, machinery and equipment</td>
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<td>0.84</td>
<td>0.04</td>
<td>4.22</td>
<td>3.35</td>
</tr>
<tr>
<td>Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services</td>
<td>41.34</td>
<td>6.53</td>
<td>-0.08</td>
<td>-0.05</td>
<td>-0.09</td>
</tr>
<tr>
<td>Business and production services</td>
<td>4.47</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td><strong>All Product</strong></td>
<td><strong>100.00</strong></td>
<td><strong>3.00</strong></td>
<td><strong>0.16</strong></td>
<td><strong>1.28</strong></td>
<td><strong>1.42</strong></td>
</tr>
</tbody>
</table>

*Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.*
Table 16.10: Monthly Producer Price Index (PPI) by Product

<table>
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<tbody>
<tr>
<td>Agriculture, Forestry and Fishery Products</td>
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<td>Other transportable goods, except metal products</td>
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<td>120.07</td>
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<td>118.68</td>
<td>117.75</td>
<td>118.08</td>
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</tbody>
</table>

Source: PPI 2nd Qtr 2015, National Accounts Division, NSB, Thimphu.

Table 16.11: Monthly Percentage Change in Producer Price Index (PPI) by Product

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Agriculture, Forestry and Fishery Products</td>
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<td>0.00</td>
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<tr>
<td>Ores and Minerals; Electricity, gas and water</td>
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<td>0.00</td>
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</tr>
<tr>
<td>Food products, beverages and tobacco; textiles,</td>
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<td>-0.00</td>
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<td>apparel and leather products</td>
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</tr>
<tr>
<td>Other transportable goods, except metal products</td>
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<tr>
<td>Metal products, machinery and equipment</td>
<td>4.22</td>
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<td>0.00</td>
<td>0.00</td>
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</tr>
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<td>food and beverage serving services; transport</td>
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<tr>
<td>services; electricity, gas and water distribution services</td>
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<tr>
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</table>

Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.
Table 16.12: Annual Percentage Change in Producer Price Index (PPI) by Product

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<thead>
<tr>
<th>Description</th>
<th>Share (%)</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
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<tbody>
<tr>
<td>Agriculture, Forestry and Fishery Products</td>
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<td>2.48</td>
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<tr>
<td>Ores and Minerals; Electricity, gas and water</td>
<td>5.81</td>
<td>4.83</td>
<td>6.39</td>
<td>2.89</td>
<td>2.48</td>
</tr>
<tr>
<td>Food products, beverages and tobacco; textiles, apparel and leather products</td>
<td>3.56</td>
<td>1.39</td>
<td>2.05</td>
<td>1.90</td>
<td>1.70</td>
</tr>
<tr>
<td>Other transportable goods, except metal products, machinery and equipment</td>
<td>15.36</td>
<td>-1.23</td>
<td>-0.77</td>
<td>0.01</td>
<td>3.66</td>
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<tr>
<td>Metal products, machinery and equipment</td>
<td>28.75</td>
<td>0.60</td>
<td>5.02</td>
<td>6.41</td>
<td>7.01</td>
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<tr>
<td>Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services</td>
<td>41.34</td>
<td>7.92</td>
<td>7.78</td>
<td>7.80</td>
<td>7.75</td>
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<td>Business and production services</td>
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<tr>
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<td>3.53</td>
<td>4.95</td>
<td>5.28</td>
<td>5.98</td>
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</table>

Source: PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.
<table>
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<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
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<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
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<th>Jun</th>
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<tr>
<td>2.54</td>
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<td>2.96</td>
<td>3.25</td>
<td>2.09</td>
<td>2.46</td>
<td>1.83</td>
<td>2.11</td>
<td>-3.97</td>
<td>-5.06</td>
<td>-4.02</td>
<td>-2.00</td>
<td>-1.51</td>
<td>-0.54</td>
</tr>
<tr>
<td>1.47</td>
<td>1.44</td>
<td>0.76</td>
<td>0.75</td>
<td>0.56</td>
<td>0.50</td>
<td>0.47</td>
<td>0.63</td>
<td>1.09</td>
<td>1.08</td>
<td>1.16</td>
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<tr>
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<td>-0.46</td>
<td>-2.17</td>
<td>-0.68</td>
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<td>-1.63</td>
<td>-2.12</td>
<td>-2.85</td>
<td>-5.67</td>
<td>-5.55</td>
<td>-7.88</td>
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<td>7.71</td>
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<td>7.68</td>
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<td>-1.04</td>
<td>-0.95</td>
<td>-0.83</td>
<td>-0.71</td>
<td>-0.70</td>
</tr>
<tr>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>-0.20</td>
<td>-0.20</td>
<td>-0.20</td>
<td>-0.20</td>
<td>-0.20</td>
<td>-0.20</td>
<td>-0.20</td>
<td>-0.20</td>
<td>-0.20</td>
</tr>
</tbody>
</table>

**Source:** PPI 2nd Qtr 2018, Economic and Environment Statistics Division, NSB, Thimphu.
CHAPTER 17  CRIMES

This section presents the details of crime statistics by various categories and nature of crimes reported and registered by Royal Bhutan Police (RBP). The Crime and Criminal Information System (CCIS) is the main source for crime statistics for RBP. The police personnel working in various Divisions and Police Stations enter the data in this system as an when the crime is registered in their jurisdiction. The data covers: (a) Type of crime, age and gender of offender; (b) Place of occurrence and time of occurrence; (c) Person killed and injured; (d) Case charge-sheeted; and (e) Conviction report and daily crime report. Not all crimes that occur are reported to the police or other government agencies. Therefore, there is a gap between the official level of crime and the amount of crime in the community known as dark figure of crime.

The development and preparation are under way to upgrade the existing Crime and Criminal Information System (CCIS) and to conduct victimization survey to estimate the amount of crime not reported to police.
Table 17.1: Types of Offence Recorded, (2013 - 2017)

<table>
<thead>
<tr>
<th>OFFENCE</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aiding &amp; abetting, solicitation &amp; criminal conspiracy</strong></td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Aiding &amp; abetting, solicitation &amp; criminal conspiracy</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td><strong>Offence against the person</strong></td>
<td>743</td>
<td>644</td>
<td>548</td>
<td>521</td>
<td>1,143</td>
</tr>
<tr>
<td>Homicide</td>
<td>24</td>
<td>21</td>
<td>19</td>
<td>21</td>
<td>20</td>
</tr>
<tr>
<td>Assault, battery &amp; related offences</td>
<td>644</td>
<td>532</td>
<td>456</td>
<td>417</td>
<td>1,032</td>
</tr>
<tr>
<td>Kidnapping &amp; related offences</td>
<td>7</td>
<td>6</td>
<td>3</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Sexual offences</td>
<td>64</td>
<td>81</td>
<td>68</td>
<td>77</td>
<td>77</td>
</tr>
<tr>
<td>Offence against infant, child, mentally disabled &amp; incompetent person</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td><strong>Offence against the property</strong></td>
<td>1,331</td>
<td>837</td>
<td>845</td>
<td>888</td>
<td>1,863</td>
</tr>
<tr>
<td>Arson and related offences</td>
<td>59</td>
<td>12</td>
<td>3</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Burglary, trespass &amp; related offences</td>
<td>486</td>
<td>311</td>
<td>362</td>
<td>342</td>
<td>478</td>
</tr>
<tr>
<td>Larceny, robbery, armed robbery &amp; related offences</td>
<td>786</td>
<td>514</td>
<td>480</td>
<td>540</td>
<td>1,379</td>
</tr>
<tr>
<td><strong>Commercial crime, fraud, corruption and related offences</strong></td>
<td>91</td>
<td>66</td>
<td>52</td>
<td>60</td>
<td>69</td>
</tr>
<tr>
<td>Money laundering &amp; smuggling</td>
<td>15</td>
<td>24</td>
<td>7</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>Embezzlement &amp; bribery</td>
<td>4</td>
<td>6</td>
<td>2</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Forgery &amp; related offences</td>
<td>70</td>
<td>30</td>
<td>35</td>
<td>42</td>
<td>46</td>
</tr>
<tr>
<td>Defamation &amp; related offences</td>
<td>2</td>
<td>6</td>
<td>8</td>
<td>4</td>
<td>13</td>
</tr>
<tr>
<td><strong>Offence against state and public order</strong></td>
<td>444</td>
<td>404</td>
<td>256</td>
<td>197</td>
<td>343</td>
</tr>
<tr>
<td>Treason, terrorism &amp; related offences</td>
<td>7</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>1</td>
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<td>Offences against cultural &amp; national heritage</td>
<td>214</td>
<td>246</td>
<td>143</td>
<td>104</td>
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<tr>
<td>Offences against judicial authority</td>
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<td>33</td>
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<td>------</td>
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</tr>
<tr>
<td>Aiding &amp; abetting, solicitation &amp; criminal conspiracy</td>
<td>2</td>
<td>1</td>
<td>1</td>
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<tr>
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<tr>
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<td>4</td>
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<td>Forgery &amp; related offences</td>
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<td>Defamation &amp; related offences</td>
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<td>6</td>
<td>8</td>
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<td>13</td>
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<tr>
<td>Offence against state and public order</td>
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<td>404</td>
<td>256</td>
<td>197</td>
<td>343</td>
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<td>4</td>
<td>2</td>
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<td>Offences against cultural &amp; national heritage</td>
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<td>104</td>
<td>148</td>
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<td>Offences against judicial authority</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>Prostitution &amp; related offences</td>
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<td>5</td>
<td>1</td>
<td>0</td>
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<td>Offences related to public order &amp; tranquility</td>
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Source: Crime and Operations Branch, Royal Bhutan Police, Thimphu.
Table 17.2: Types of Other Non-Penal Incidents Recorded, (2013 - 2017)

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<th>2016</th>
<th>2017</th>
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Table 17.3: Motor Vehicle Accident by Dzongkhag, (2013 - 2017)

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</tr>
<tr>
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Source: Crime & Operations, Royal Bhutan Police, Thimphu.
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Source: Crime & Operations, Royal Bhutan Police, Thimphu.
Table 17.5: Motor Vehicle Accidents by Causes by Dzongkhag, (2013-2017) (Incidents)

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*Source: Crime & Operations, Royal Bhutan Police, Thimphu.*
Table 17.6: Number of Houses Destroyed by Fire by Dzongkhag, (2013-2017)

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*Source: Fire Division, Royal Bhutan Police, Thimphu.*
### Table 17.7: Fines Imposed for Violation of Traffic Rules by Division, (2013-2017)

(Nu. in million)

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<th>2015</th>
<th>2016</th>
<th>2017</th>
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<td>Division VI (Tsirang &amp; Dagana)</td>
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*Source: Traffic Division, Royal Bhutan Police, Thimphu.*
### List of Dzongkhags, Gewogs and Chiwogs, Bhutan 2016.

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*Source: Election Commission of Bhutan and Dzongkhag Administration.*