

## म्रीजाल्ट्याञ्चेद्यान्याद्याद्याः नृप्याःस्वरायस्यानात्वरः।



# NATIONAL STATISTICS BUREAU Royal Government of Bhutan



MONTHLY CONSUMER PRICE INDEX (CPI) BULLETIN NOVEMBER 2015

NATIONAL ACCOUNTS & PRICE DIVISION NATIONAL STATISTICS BUREAU

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#### **FOREWORD**

National Statistics Bureau (NSB) is pleased to release the Consumer Price Index (CPI) Bulletin for October 2015. This is the 24<sup>th</sup> series of monthly CPI Bulletin published by National Accounts and Price Division, NSB.

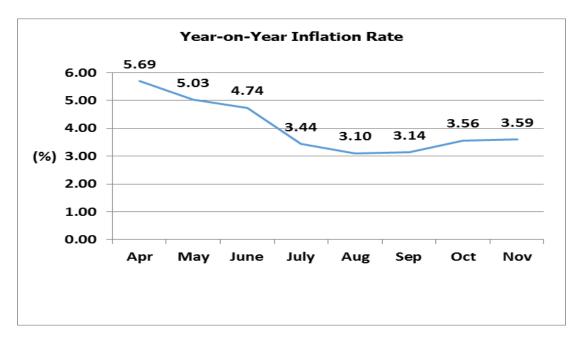
The Bulletin is compiled using December 2012 as the price reference period and tracks the price movements of 151 items (436 varieties) in 20 districts and 2 major urban areas. The rebased CPI uses the Geometric Modified Laspeyres formula, and has separate indices for domestic and imported goods and services.

We thank all agencies and stakeholders for their support in bringing out this bulletin and look forward for their continued support.

December 2015

National Statistics Bureau

**GRAPH 1: YEAR-ON-YEAR INFLATION** 



### **YEAR-ON-YEAR INFLATION RATE**

The annual inflation rate for November 2015 [i.e., from November 2014 to November 2015] rose by 3.59%. This was 0.03 percentage point higher than the previous month which was 3.56%. Prices for food has risen by 2.64% and non-food prices by 4.23%.

The prices of domestic goods and services increased by 4.60% due to increase in food prices by 3.19% and non-food prices by 5.42%.

The prices of imported goods increased by 2.69% because of the increase in food prices by 2.26% and non-food prices by 3.04%.

|          |         |        |        |        |        | Ta     | able 1:  | Year on   | Year I  | ndex &   | percer  | ıt chan | ge (Nat | ional)  |        |        |        |      |                   |      |        |         |      |      |      |  |  |
|----------|---------|--------|--------|--------|--------|--------|----------|-----------|---------|----------|---------|---------|---------|---------|--------|--------|--------|------|-------------------|------|--------|---------|------|------|------|--|--|
|          |         |        |        |        |        |        |          | Inde      | (Decem  | ber 2012 | 2=100)  |         |         |         |        |        |        |      |                   | ı    | ercent | change( | 6)   |      |      |  |  |
| Group    | Weights |        |        |        | 20:    | 14     |          |           |         |          |         |         | 2       | 015     |        |        |        |      |                   |      | 2      | 015     |      |      |      |  |  |
| Group    | weights | Apr    | May    | Jun    | Jul    | Aug    | Sep      | 0ct       | Nov     | Apr      | May     | June    | July    | Aug     | Sep    | 0ct    | Nov    | Apr  | May               | June | July   | Aug     | Sep  | 0ct  | Nov  |  |  |
| Food     | 39.92   | 116.71 | 117.54 | 118.81 | 119.80 | 120.25 | 120.90   | 120.98    | 121.39  | 121.21   | 120.89  | 121.27  | 122.10  | 123.00  | 123.73 | 124.45 | 124.60 | 3.85 | 2.85              | 2.07 | 1.92   | 2.29    | 2.34 | 2.86 | 2.64 |  |  |
| Non-Food | 60.08   | 111.11 | 111.77 | 112.10 | 115.54 | 116.56 | 116.90   | 117.04    | 116.91  | 118.82   | 119.04  | 119.44  | 120.69  | 120.80  | 121.19 | 121.75 | 121.85 | 6.93 | 6.50              | 6.55 | 4.46   | 3.64    | 3.67 | 4.03 | 4.23 |  |  |
| Overall  | 100     | 113.31 | 114.04 | 114.73 | 117.22 | 118.02 | 118.48   | 118.60    | 118.68  | 119.77   | 119.77  | 120.17  | 121.25  | 121.68  | 122.20 | 122.82 | 122.94 | 5.69 | 5.03              | 4.74 | 3.44   | 3.10    | 3.14 | 3.56 | 3.59 |  |  |
|          |         |        |        |        |        | Tabl   | e 2: Yea | ar-on-Y   | ear Ind | ex & p   | ercenta | ge cha  | nge (Do | omestic | )      |        |        |      |                   |      |        |         |      |      |      |  |  |
|          |         |        |        |        |        |        |          | Inde      | (Decem  | ber 2012 | 2=100)  |         |         |         |        |        |        |      | Percent change(%) |      |        |         |      |      |      |  |  |
| Croup    | Weights |        |        |        | 20     | 14     |          | 2015 2015 |         |          |         |         |         |         |        |        |        |      |                   |      |        |         |      |      |      |  |  |
| Group    | weights | Apr    | May    | Jun    | Jul    | Aug    | Sep      | 0ct       | Nov     | Apr      | May     | June    | July    | Aug     | Sep    | 0ct    | Nov    | Apr  | May               | June | July   | Aug     | Sep  | 0ct  | Nov  |  |  |
| Food     | 17.77   | 117.94 | 118.31 | 119.84 | 120.97 | 121.02 | 121.17   | 121.31    | 121.82  | 122.58   | 122.08  | 122.21  | 123.16  | 124.20  | 124.88 | 125.71 | 125.71 | 3.93 | 3.18              | 1.97 | 1.81   | 2.62    | 3.07 | 3.62 | 3.19 |  |  |
| Non-Food | 30.24   | 110.80 | 113.25 | 113.48 | 115.22 | 116.51 | 116.58   | 116.92    | 116.93  | 118.85   | 118.94  | 118.99  | 121.11  | 121.62  | 122.43 | 123.21 | 123.26 | 7.26 | 5.02              | 4.86 | 5.12   | 4.38    | 5.02 | 5.38 | 5.42 |  |  |
| Total    | 48.01   | 113.33 | 115.06 | 115.74 | 117.27 | 118.12 | 118.22   | 118.49    | 118.68  | 120.18   | 120.06  | 120.15  | 121.84  | 122.54  | 123.31 | 124.10 | 124.14 | 6.04 | 4.35              | 3.80 | 3.90   | 3.74    | 4.31 | 4.74 | 4.60 |  |  |
|          |         |        |        |        |        | Tal    | ole 3: Y | ear-on-   | Year In | dex &    | percen  | age ch  | ange (I | import) |        |        |        |      |                   |      |        |         |      |      |      |  |  |
|          |         |        |        |        |        |        |          | Inde      | (Decem  | ber 2012 | 2=100)  |         |         |         |        |        |        |      | Percent change(%) |      |        |         |      |      |      |  |  |
| Group    | Weights |        |        |        | 20:    | 14     |          |           |         |          |         |         | 2       | 015     |        |        |        | 2015 |                   |      |        |         |      |      |      |  |  |
| Group    | weights | Apr    | May    | Jun    | Jul    | Aug    | Sep      | 0ct       | Nov     | Apr      | May     | June    | July    | Aug     | Sep    | 0ct    | Nov    | Apr  | May               | June | July   | Aug     | Sep  | 0ct  | Nov  |  |  |
| Food     | 22.15   | 115.93 | 117.13 | 118.22 | 119.14 | 119.92 | 120.97   | 121.03    | 121.39  | 120.53   | 120.35  | 120.92  | 121.66  | 122.46  | 123.23 | 123.85 | 124.13 | 3.97 | 2.74              | 2.28 | 2.12   | 2.12    | 1.86 | 2.33 | 2.26 |  |  |
| Non-Food | 29.84   | 111.43 | 110.28 | 110.71 | 115.86 | 116.61 | 117.22   | 117.16    | 116.89  | 118.79   | 119.14  | 119.90  | 120.27  | 119.99  | 119.94 | 120.29 | 120.44 | 6.60 | 8.03              | 8.30 | 3.80   | 2.90    | 2.31 | 2.67 | 3.04 |  |  |
| Total    | 51.99   | 113.36 | 113.20 | 113.90 | 117.27 | 118.03 | 118.83   | 118.82    | 118.82  | 119.54   | 119.66  | 120.34  | 120.87  | 121.04  | 121.34 | 121.80 | 122.01 | 5.45 | 5.71              | 5.65 | 3.07   | 2.55    | 2.11 | 2.51 | 2.69 |  |  |

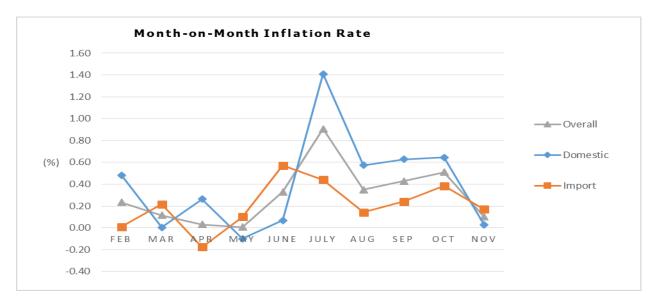
|                                                                      |         |        |        |        |        |        | Tab    | le 4: Y | ear on | Year i  | ndex:  | Group  | Level  |        |        |        |        |       |       |       |          |         |      |      |      |
|----------------------------------------------------------------------|---------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|----------|---------|------|------|------|
|                                                                      |         |        |        |        |        |        |        | Index   | (Decem | ber 201 | 2=100) |        |        |        |        |        |        |       |       | ı     | ercent ( | hange(9 | 6)   |      |      |
| 12 Major Groups                                                      |         |        |        |        | 20     | 14     |        |         |        |         |        |        | 20     | 15     |        |        |        |       |       |       | 20       | )15     |      |      |      |
| 12 Major Groups                                                      | Weights | Apr    | May    | Jun    | Jul    | Aug    | Sep    | 0ct     | Nov    | Apr     | May    | June   | July   | Aug    | Sep    | 0ct    | Nov    | Apr   | May   | June  | July     | Aug     | Sep  | 0ct  | Nov  |
| FOOD AND NON-ALCOHOLIC BEVERAGES                                     | 36.89   | 115.40 | 116.32 | 117.63 | 118.71 | 119.25 | 119.96 | 120.02  | 120.47 | 120.08  | 119.75 | 120.18 | 121.01 | 121.96 | 122.72 | 123.49 | 123.63 | 4.05  | 2.95  | 2.17  | 1.94     | 2.27    | 2.30 | 2.89 | 2.62 |
| ALCOHOLIC BEVERAGES AND NARCOTICS                                    | 3.03    | 133.85 | 133.57 | 134.14 | 134.17 | 133.54 | 133.59 | 134.24  | 134.24 | 137.02  | 136.91 | 136.54 | 137.49 | 137.75 | 138.08 | 138.01 | 138.34 | 2.37  | 2.50  | 1.78  | 2.48     | 3.15    | 3.37 | 2.81 | 3.05 |
| CLOTHING AND FOOTWEAR                                                | 9.20    | 119.33 | 114.47 | 115.34 | 116.81 | 118.20 | 118.49 | 118.66  | 119.06 | 121.55  | 121.67 | 122.87 | 123.35 | 123.63 | 123.82 | 124.61 | 124.93 | 1.86  | 6.29  | 6.53  | 5.59     | 4.60    | 4.50 | 5.02 | 4.93 |
| HOUSING, WATER, ELECTRICITY, GAS AND OTHER FUELS                     | 21.70   | 112.16 | 115.75 | 116.68 | 119.06 | 120.87 | 120.93 | 121.49  | 121.18 | 123.03  | 123.06 | 123.06 | 124.87 | 124.90 | 125.52 | 126.56 | 126.55 | 9.69  | 6.31  | 5.47  | 4.87     | 3.33    | 3.80 | 4.17 | 4.43 |
| FURNISHING, HOUSEHOLD EQUIPMENT AND ROUTINE MAINTENANCE OF THE HOUSE | 2.20    | 122.30 | 123.05 | 123.05 | 123.60 | 124.09 | 124.46 | 124.53  | 124.70 | 127.38  | 127.21 | 127.31 | 127.57 | 127.79 | 127.86 | 128.40 | 128.51 | 4.15  | 3.38  | 3.46  | 3.21     | 2.98    | 2.73 | 3.11 | 3.05 |
| HEALTH                                                               | 4.68    | 104.31 | 104.93 | 104.95 | 105.02 | 105.16 | 105.16 | 105.28  | 105.28 | 107.83  | 107.83 | 108.07 | 108.07 | 108.08 | 108.12 | 108.04 | 108.20 | 3.37  | 2.76  | 2.98  | 2.91     | 2.78    | 2.81 | 2.63 | 2.78 |
| TRANSPORT                                                            | 11.98   | 105.74 | 105.97 | 106.35 | 117.66 | 118.15 | 119.45 | 118.96  | 118.49 | 119.24  | 120.04 | 120.94 | 123.42 | 123.50 | 124.07 | 124.29 | 124.39 | 12.77 | 13.27 | 13.72 | 4.90     | 4.52    | 3.87 | 4.48 | 4.98 |
| COMMUNICATION                                                        | 3.03    | 99.64  | 99.57  | 95.47  | 95.47  | 95.46  | 95.44  | 95.47   | 95.47  | 95.47   | 95.69  | 95.56  | 95.56  | 95.62  | 95.62  | 95.62  | 95.62  | -4.18 | -3.89 | 0.10  | 0.10     | 0.16    | 0.19 | 0.15 | 0.15 |
| RECREATIONAL AND CULTURE                                             | 2.35    | 109.80 | 109.44 | 109.55 | 109.50 | 109.59 | 109.68 | 109.69  | 109.72 | 110.59  | 110.94 | 111.04 | 111.32 | 111.30 | 111.36 | 111.51 | 111.55 | 0.72  | 1.38  | 1.36  | 1.66     | 1.56    | 1.53 | 1.66 | 1.67 |
| EDUCATION                                                            | 1.64    | 114.96 | 114.96 | 114.96 | 116.03 | 116.03 | 116.03 | 116.03  | 116.03 | 122.40  | 122.40 | 122.40 | 123.82 | 123.82 | 123.82 | 123.82 | 123.82 | 6.48  | 6.48  | 6.48  | 6.71     | 6.71    | 6.71 | 6.71 | 6.71 |
| RESTAURANTS AND HOTELS                                               | 1.24    | 113.45 | 112.35 | 112.70 | 113.45 | 114.60 | 114.60 | 114.60  | 114.73 | 120.95  | 121.50 | 122.12 | 122.12 | 123.30 | 123.52 | 124.15 | 125.04 | 6.62  | 8.15  | 8.36  | 7.64     | 7.60    | 7.79 | 8.34 | 8.99 |
| MISCELLANEOUS GOODS AND SERVICES                                     | 2.06    | 116.34 | 116.67 | 117.30 | 118.17 | 119.06 | 119.11 | 119.22  | 119.22 | 121.99  | 121.93 | 122.30 | 122.48 | 122.75 | 123.01 | 123.35 | 123.45 | 4.85  | 4.51  | 4.26  | 3.64     | 3.10    | 3.28 | 3.46 | 3.55 |
| All                                                                  | 100.00  | 113.31 | 114.04 | 114.73 | 117.22 | 118.02 | 118.48 | 118.60  | 118.68 | 119.77  | 119.77 | 120.17 | 121.25 | 121.68 | 122.20 | 122.82 | 122.94 | 5.69  | 5.03  | 4.74  | 3.44     | 3.10    | 3.14 | 3.56 | 3.59 |

|                                    |         |                                                                                                       |        |        |        | Table ! | 5: Year | -on-ye | ear Ind | ex & F | ercen  | t Chan | ge: Fo | od Gro | ир     |        |        |       |       |       |       |       |       |       |       |
|------------------------------------|---------|-------------------------------------------------------------------------------------------------------|--------|--------|--------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                    |         | Table 5: Year-on-year Index & Percent Change: Food Group  Index (December 2012=100) Percent change(%) |        |        |        |         |         |        |         |        |        |        |        |        |        | 6)     |        |       |       |       |       |       |       |       |       |
|                                    |         |                                                                                                       |        |        | 20     | 14      |         |        |         |        |        |        | 20     | 15     |        |        |        |       |       |       | 20    | 15    |       |       |       |
| Group                              | Weights | Apr                                                                                                   | May    | Jun    | Jul    | Aug     | Sep     | 0ct    | Nov     | Apr    | May    | June   | July   | Aug    | Sep    | 0ct    | Nov    | Apr   | May   | June  | July  | Aug   | Sep   | 0ct   | Nov   |
| Bread and Cereals                  | 9.75    | 117.61                                                                                                | 118.81 | 119.57 | 120.43 | 121.15  | 120.74  | 120.83 | 121.53  | 121.99 | 121.85 | 122.32 | 122.53 | 123.31 | 123.61 | 123.84 | 124.03 | 3.72  | 2.56  | 2.30  | 1.74  | 1.79  | 2.38  | 2.49  | 2.05  |
| Meat                               | 3.10    | 122.44                                                                                                | 124.02 | 124.49 | 125.57 | 126.06  | 128.78  | 128.45 | 128.00  | 128.73 | 128.96 | 129.53 | 129.59 | 130.72 | 129.60 | 129.90 | 129.93 | 5.14  | 3.98  | 4.05  | 3.21  | 3.70  | 0.63  | 1.13  | 1.51  |
| Fish                               | 1.06    | 125.63                                                                                                | 127.28 | 128.68 | 130.34 | 132.25  | 131.48  | 132.66 | 129.41  | 129.75 | 130.64 | 132.58 | 132.19 | 135.61 | 136.70 | 137.50 | 137.56 | 3.28  | 2.64  | 3.03  | 1.42  | 2.54  | 3.97  | 3.64  | 6.30  |
| Milk, cheese and eggs              | 6.88    | 115.63                                                                                                | 117.04 | 117.38 | 119.11 | 119.70  | 120.20  | 120.51 | 123.10  | 123.22 | 123.98 | 124.29 | 124.29 | 125.18 | 125.98 | 126.93 | 126.09 | 6.56  | 5.93  | 5.89  | 4.35  | 4.58  | 4.81  | 5.33  | 2.43  |
| Oils and fats                      | 3.19    | 112.43                                                                                                | 114.08 | 113.63 | 113.64 | 111.54  | 112.10  | 112.10 | 112.82  | 113.21 | 112.96 | 112.66 | 112.50 | 112.27 | 111.87 | 112.34 | 112.62 | 0.69  | -0.98 | -0.85 | -1.01 | 0.65  | -0.21 | 0.21  | -0.17 |
| Fruit                              | 1.68    | 116.93                                                                                                | 117.92 | 117.49 | 117.92 | 116.69  | 116.62  | 115.06 | 114.09  | 112.50 | 113.54 | 112.31 | 111.91 | 110.74 | 110.19 | 109.87 | 109.43 | -3.79 | -3.71 | -4.41 | -5.10 | -5.10 | -5.51 | -4.51 | -4.08 |
| Vegetables                         | 7.82    | 110.63                                                                                                | 110.46 | 114.65 | 116.17 | 117.87  | 120.13  | 120.13 | 119.58  | 116.18 | 113.66 | 114.57 | 118.07 | 119.94 | 122.77 | 124.90 | 125.97 | 5.02  | 2.89  | -0.07 | 1.63  | 1.76  | 2.19  | 3.97  | 5.35  |
| Sugar, jam, honey etc              | 0.98    | 107.46                                                                                                | 107.21 | 108.82 | 109.28 | 109.53  | 109.70  | 109.70 | 109.84  | 109.30 | 109.21 | 109.13 | 109.16 | 109.83 | 109.93 | 110.30 | 110.52 | 1.71  | 1.87  | 0.29  | -0.11 | 0.27  | 0.21  | 0.55  | 0.62  |
| Food products n.e.c                | 0.64    | 119.82                                                                                                | 121.06 | 125.01 | 125.58 | 125.49  | 124.27  | 125.27 | 125.36  | 126.18 | 127.81 | 128.27 | 128.91 | 130.34 | 131.52 | 131.36 | 130.67 | 5.31  | 5.58  | 2.61  | 2.65  | 3.87  | 5.83  | 4.86  | 4.23  |
| Coffee, tea and cocoa              | 0.68    | 117.07                                                                                                | 117.39 | 117.72 | 118.37 | 119.19  | 119.24  | 119.53 | 119.18  | 122.07 | 122.77 | 123.88 | 123.97 | 124.56 | 125.55 | 125.73 | 125.50 | 4.28  | 4.58  | 5.23  | 4.73  | 4.50  | 5.29  | 5.19  | 5.31  |
| Mineral water, softdrinks & juices | 1.11    | 106.36                                                                                                | 106.36 | 106.36 | 106.36 | 106.47  | 106.49  | 106.62 | 106.62  | 108.24 | 108.30 | 108.45 | 108.94 | 109.07 | 109.23 | 108.88 | 109.08 | 1.77  | 1.82  | 1.96  | 2.43  | 2.44  | 2.58  | 2.13  | 2.31  |
| Splrits                            | 0.65    | 109.70                                                                                                | 111.53 | 112.16 | 112.16 | 111.53  | 111.59  | 112.55 | 112.55  | 114.56 | 114.67 | 114.90 | 114.90 | 115.48 | 116.03 | 115.55 | 116.77 | 4.44  | 2.81  | 2.45  | 2.45  | 3.54  | 3.98  | 2.67  | 3.75  |
| Wine                               | 0.44    | 119.05                                                                                                | 121.04 | 121.72 | 121.72 | 121.04  | 121.11  | 121.11 | 121.11  | 121.50 | 121.50 | 121.50 | 124.47 | 124.46 | 124.46 | 124.46 | 124.47 | 2.06  | 0.38  | -0.18 | 2.26  | 2.83  | 2.77  | 2.76  | 2.77  |
| Beer                               | 0.56    | 112.41                                                                                                | 112.41 | 113.28 | 113.28 | 111.57  | 111.64  | 111.85 | 111.85  | 111.61 | 111.62 | 111.74 | 111.00 | 111.21 | 112.09 | 112.63 | 112.51 | -0.71 | -0.71 | -1.36 | -2.01 | -0.33 | 0.40  | 0.69  | 0.59  |
| Narcotics                          | 1.38    | 163.79                                                                                                | 160.93 | 161.23 | 161.29 | 161.34  | 161.34  | 162.32 | 162.32  | 168.34 | 167.98 | 166.73 | 168.45 | 168.62 | 168.60 | 168.42 | 168.54 | 2.77  | 4.38  | 3.41  | 4.44  | 4.51  | 4.50  | 3.76  | 3.83  |

|                                                                |           |        |                                         |                                         | Tab          | ole 6: \ | ear-o  | 1-Year | Index  | & Per   | cent C | hange  | : Non-l | Food G | roup                                    |        |        |       |       |       |          |         |       |       |                                         |
|----------------------------------------------------------------|-----------|--------|-----------------------------------------|-----------------------------------------|--------------|----------|--------|--------|--------|---------|--------|--------|---------|--------|-----------------------------------------|--------|--------|-------|-------|-------|----------|---------|-------|-------|-----------------------------------------|
|                                                                |           |        | *************************************** | *************************************** | ************ |          |        | Index  | (Decem | ber 201 | 2=100) |        |         |        | *************************************** |        |        |       |       | P     | ercent ( | hange(9 | 6)    |       | *************************************** |
| Crown                                                          | 14/2:-642 |        |                                         |                                         | 20           | 14       |        |        |        |         |        |        | 20      | 15     |                                         |        |        |       |       |       | 20       | 15      |       |       |                                         |
| Group                                                          | Weights   | Apr    | May                                     | Jun                                     | Jul          | Aug      | Sep    | Oct    | Nov    | Apr     | May    | June   | July    | Aug    | Sep                                     | Oct    | Nov    | Apr   | May   | June  | July     | Aug     | Sep   | Oct   | Nov                                     |
| Clothing                                                       | 6.24      | 118.43 | 112.37                                  | 113.98                                  | 115.84       | 117.79   | 117.42 | 117.45 | 118.03 | 120.91  | 121.06 | 122.43 | 123.06  | 123.49 | 123.77                                  | 124.45 | 124.70 | 2.10  | 7.73  | 7.41  | 6.22     | 4.84    | 5.41  | 5.96  | 5.65                                    |
| Footwear                                                       | 2.96      | 121.26 | 119.04                                  | 118.26                                  | 118.88       | 119.06   | 120.79 | 121.25 | 121.26 | 122.91  | 122.97 | 123.81 | 123.96  | 123.92 | 123.93                                  | 124.96 | 125.40 | 1.36  | 3.30  | 4.69  | 4.28     | 4.08    | 2.60  | 3.07  | 3.42                                    |
| Housing (rental)                                               | 15.12     | 111.35 | 116.38                                  | 117.72                                  | 118.67       | 121.19   | 121.26 | 121.97 | 121.97 | 124.41  | 124.41 | 124.41 | 124.41  | 124.41 | 125.31                                  | 126.79 | 126.79 | 11.73 | 6.91  | 5.68  | 4.84     | 2.66    | 3.33  | 3.95  | 3.95                                    |
| Maintenancen & repair of the dwelling                          | 1.88      | 109.42 | 110.32                                  | 110.32                                  | 110.75       | 111.34   | 111.35 | 112.07 | 111.93 | 113.69  | 114.01 | 114.05 | 114.05  | 114.36 | 114.38                                  | 114.45 | 114.32 | 3.90  | 3.35  | 3.38  | 2.98     | 2.72    | 2.72  | 2.12  | 2.13                                    |
| Electricity, gas & other fuels                                 | 4.54      | 116.19 | 116.19                                  | 116.19                                  | 124.42       | 124.42   | 124.42 | 124.42 | 122.96 | 122.96  | 122.96 | 122.96 | 131.83  | 131.83 | 131.83                                  | 131.83 | 131.83 | 5.83  | 5.83  | 5.83  | 5.95     | 5.95    | 5.95  | 5.95  | 7.21                                    |
| Furniture and furnishing, carpets and other floor cover        | 0.37      | 117.20 | 118.40                                  | 118.13                                  | 119.00       | 119.15   | 119.84 | 119.84 | 119.84 | 119.98  | 119.98 | 119.22 | 119.22  | 119.29 | 119.60                                  | 119.60 | 119.60 | 2.37  | 1.34  | 0.92  | 0.18     | 0.12    | -0.20 | -0.20 | -0.20                                   |
| Household textiles                                             | 0.57      | 143.47 | 145.44                                  | 145.44                                  | 146.24       | 146.41   | 146.58 | 146.65 | 147.58 | 151.59  | 151.02 | 152.00 | 151.96  | 152.30 | 152.30                                  | 153.08 | 153.36 | 5.65  | 3.83  | 4.51  | 3.91     | 4.02    | 3.90  | 4.39  | 3.91                                    |
| Household appliances                                           | 0.42      | 110.31 | 108.65                                  | 108.67                                  | 108.88       | 110.07   | 110.09 | 110.10 | 110.12 | 112.80  | 112.62 | 112.43 | 113.12  | 113.13 | 113.46                                  | 113.55 | 113.59 | 2.25  | 3.65  | 3.46  | 3.89     | 2.78    | 3.06  | 3.13  | 3.15                                    |
| Glassware, tableware & utensils                                | 0.25      | 131.38 | 132.38                                  | 132.52                                  | 132.74       | 132.90   | 133.15 | 133.23 | 133.19 | 137.66  | 137.44 | 137.78 | 139.37  | 139.37 | 139.37                                  | 139.56 | 139.50 | 4.78  | 3.82  | 3.97  | 4.99     | 4.87    | 4.67  | 4.75  | 4.74                                    |
| Tools and equipments for house and garden                      | 0.24      | 108.45 | 111.04                                  | 111.26                                  | 111.85       | 113.13   | 113.44 | 113.58 | 113.27 | 116.25  | 116.46 | 116.78 | 116.44  | 117.01 | 116.42                                  | 116.96 | 117.42 | 7.19  | 4.87  | 4.96  | 4.11     | 3.44    | 2.62  | 2.98  | 3.66                                    |
| Goods and services for household maintenance                   | 0.35      | 115.19 | 115.43                                  | 115.46                                  | 115.90       | 115.94   | 116.77 | 116.91 | 116.94 | 119.13  | 119.05 | 119.01 | 118.96  | 119.39 | 119.46                                  | 120.97 | 120.95 | 3.42  | 3.14  | 3.08  | 2.64     | 2.98    | 2.31  | 3.47  | 3.43                                    |
| Purchase of vehicles                                           | 4.58      | 100.00 | 100.00                                  | 100.00                                  | 127.65       | 127.65   | 131.96 | 131.96 | 131.96 | 137.09  | 137.09 | 137.09 | 139.66  | 139.66 | 139.66                                  | 139.66 | 139.66 | 37.09 | 37.09 | 37.09 | 9.41     | 9.41    | 5.83  | 5.83  | 5.83                                    |
| Fuels & Lubricants                                             | 3.11      | 107.08 | 107.39                                  | 107.60                                  | 110.79       | 112.28   | 111.50 | 109.76 | 108.10 | 104.33  | 106.45 | 109.18 | 107.75  | 104.16 | 102.98                                  | 103.54 | 103.82 | -2.57 | -0.87 | 1.47  | -2.75    | -7.23   | -7.65 | -5.66 | -3.96                                   |
| Telephone and telefax equipment                                | 0.17      | 93.61  | 92.42                                   | 92.42                                   | 92.42        | 92.26    | 91.86  | 92.42  | 92.42  | 92.42   | 92.42  | 90.22  | 90.22   | 91.15  | 91.15                                   | 91.15  | 91.15  | -1.27 | 0.00  | -2.39 | -2.39    | -1.20   | -0.77 | -1.38 | -1.38                                   |
| Audio-visual, photographic & information processing equipments | 0.48      | 108.22 | 107.54                                  | 107.54                                  | 106.97       | 106.85   | 107.03 | 107.03 | 107.03 | 107.47  | 107.47 | 107.66 | 107.97  | 107.22 | 107.22                                  | 107.22 | 107.32 | -0.70 | -0.07 | 0.11  | 0.93     | 0.35    | 0.18  | 0.18  | 0.27                                    |
| Recreational & cultural services                               | 0.92      | 99.94  | 100.04                                  | 100.04                                  | 100.04       | 100.04   | 100.04 | 100.04 | 100.04 | 100.05  | 100.96 | 100.96 | 100.96  | 100.98 | 100.98                                  | 100.98 | 100.98 | 0.11  | 0.92  | 0.92  | 0.92     | 0.94    | 0.94  | 0.94  | 0.94                                    |
| Newspapers, books & stationery                                 | 0.72      | 118.52 | 118.69                                  | 118.71                                  | 118.92       | 119.31   | 119.43 | 119.43 | 119.52 | 121.61  | 121.46 | 121.70 | 121.94  | 122.40 | 122.63                                  | 123.15 | 123.15 | 2.61  | 2.33  | 2.52  | 2.54     | 2.58    | 2.67  | 3.12  | 3.04                                    |
| Catering services                                              | 1.05      | 112.19 | 110.87                                  | 111.00                                  | 111.51       | 112.33   | 112.33 | 112.33 | 112.48 | 119.47  | 120.04 | 120.68 | 120.68  | 122.05 | 122.22                                  | 122.80 | 123.72 | 6.49  | 8.27  | 8.72  | 8.23     | 8.65    | 8.80  | 9.32  | 9.99                                    |
| Accommodation services                                         | 0.19      | 120.63 | 120.91                                  | 122.56                                  | 124.79       | 127.95   | 127.95 | 127.95 | 127.95 | 129.49  | 129.95 | 130.35 | 130.35  | 130.47 | 131.00                                  | 131.87 | 132.57 | 7.34  | 7.48  | 6.36  | 4.46     | 1.97    | 2.38  | 3.06  | 3.61                                    |
| Personal care                                                  | 1.59      | 111.90 | 112.73                                  | 113.17                                  | 114.10       | 115.24   | 115.42 | 115.56 | 115.52 | 118.05  | 117.91 | 117.88 | 118.09  | 118.44 | 118.79                                  | 119.12 | 119.15 | 5.50  | 4.60  | 4.16  | 3.49     | 2.78    | 2.91  | 3.08  | 3.14                                    |
| Personal effects n.e.c                                         | 0.47      | 132.72 | 131.05                                  | 132.45                                  | 133.05       | 132.96   | 132.48 | 132.50 | 132.64 | 136.30  | 136.55 | 138.52 | 138.58  | 138.53 | 138.47                                  | 138.82 | 139.21 | 2.70  | 4.20  | 4.59  | 4.16     | 4.19    | 4.52  | 4.77  | 4.95                                    |

|                                  |         |                                                                                     | Ta        | able 7: | Month- | on-Mor    | nth Ind  | ex & Pe | ercent ( | hange  | in the ( | CPI (Na | tional) |       |       |           |           |       |       |      |      |  |
|----------------------------------|---------|-------------------------------------------------------------------------------------|-----------|---------|--------|-----------|----------|---------|----------|--------|----------|---------|---------|-------|-------|-----------|-----------|-------|-------|------|------|--|
|                                  |         |                                                                                     |           |         | Index  | (Decem    | ber 2012 | =100)   |          |        |          |         |         |       |       | Percent ( | Change(%  | )     |       |      |      |  |
| Group                            |         |                                                                                     | ,         |         |        | 20        | 15       |         |          |        |          |         |         |       |       | 20        | )15       |       |       |      |      |  |
| Group                            | Weights | Feb                                                                                 | Mar       | Apr     | May    | June      | July     | Aug     | Sep      | Oct    | Nov      | Feb     | Mar     | Apr   | May   | June      | July      | Aug   | Sep   | Oct  | Nov  |  |
| Food                             | 39.92   | 121.11                                                                              | 121.12    | 121.21  | 120.89 | 121.27    | 122.10   | 123.00  | 123.73   | 124.45 | 124.60   | 0.05    | 0.01    | 0.07  | -0.26 | 0.31      | 0.69      | 0.74  | 0.59  | 0.58 | 0.13 |  |
| Non-Food                         | 60.08   | 118.59                                                                              | 118.81    | 118.82  | 119.04 | 119.44    | 120.69   | 120.80  | 121.19   | 121.75 | 121.85   | 0.36    | 0.19    | 0.005 | 0.18  | 0.34      | 1.05      | 0.09  | 0.32  | 0.47 | 0.08 |  |
| Overall                          | 100.00  | 119.59                                                                              | 119.73    | 119.77  | 119.77 | 120.17    | 121.25   | 121.68  | 122.20   | 122.82 | 122.94   | 0.23    | 0.12    | 0.03  | 0.01  | 0.33      | 0.91      | 0.35  | 0.43  | 0.51 | 0.10 |  |
| Purchasing Power of Ngultrum (Nu | .)      | 84                                                                                  | 84        | 83      | 83     | 83        | 82       | 82      | 82       | 81     | 81       |         |         |       |       |           |           |       |       |      |      |  |
|                                  |         | Table 8: Month-on-Month Index (Domestic)                                            |           |         |        |           |          |         |          |        |          |         |         |       |       |           |           |       |       |      |      |  |
|                                  |         | Index (December 2012=100) Percent Change (%)                                        |           |         |        |           |          |         |          |        |          |         |         |       |       |           |           |       |       |      |      |  |
| Crows                            |         |                                                                                     |           |         |        | 20        | 15       |         |          |        |          | 2015    |         |       |       |           |           |       |       |      |      |  |
| Group                            | Weights | Feb                                                                                 | Mar       | Apr     | May    | June      | July     | Aug     | Sep      | Oct    | Nov      | Feb     | Mar     | Apr   | May   | June      | July      | Aug   | Sep   | Oct  | Nov  |  |
| Food                             | 17.77   | 122.15                                                                              | 122.06    | 122.58  | 122.08 | 122.21    | 123.16   | 124.20  | 124.88   | 125.71 | 125.71   | 0.22    | -0.08   | 0.42  | -0.41 | 0.11      | 0.78      | 0.84  | 0.55  | 0.66 | 0.00 |  |
| Non-Food                         | 30.24   | 118.58                                                                              | 118.64    | 118.85  | 118.94 | 118.99    | 121.11   | 121.62  | 122.43   | 123.21 | 123.26   | 0.63    | 0.05    | 0.17  | 0.08  | 0.04      | 1.78      | 0.42  | 0.67  | 0.64 | 0.04 |  |
| Domestic                         | 48.01   | 119.86                                                                              | 119.87    | 120.18  | 120.06 | 120.15    | 121.84   | 122.54  | 123.31   | 124.10 | 124.14   | 0.48    | 0.005   | 0.26  | -0.10 | 0.07      | 1.41      | 0.57  | 0.63  | 0.64 | 0.03 |  |
|                                  |         |                                                                                     |           |         | Ta     | able 9: I | Month-   | on-Mor  | th Per   | ent Ch | ange in  | the CP  | I (Imp  | ort)  |       |           |           |       |       |      |      |  |
|                                  |         |                                                                                     |           |         | Index  | (Decem    | ber 2012 | =100)   |          |        |          |         |         |       | F     | Percent C | Change (% | )     |       |      |      |  |
| <b>A</b>                         |         |                                                                                     | 2015 2015 |         |        |           |          |         |          |        |          |         |         |       |       |           |           |       |       |      |      |  |
| Group                            | Weights | Feb Mar Apr May June July Aug Sep Oct Nov Feb Mar Apr May June July Aug Sep Oct Nov |           |         |        |           |          |         |          |        |          |         | Nov     |       |       |           |           |       |       |      |      |  |
| Food                             | 22.15   | 120.67                                                                              | 120.76    | 120.53  | 120.35 | 120.92    | 121.66   | 122.46  | 123.23   | 123.85 | 124.13   | -0.07   | 0.07    | -0.19 | -0.15 | 0.48      | 0.61      | 0.65  | 0.63  | 0.51 | 0.22 |  |
| Non-Food                         | 29.84   | 118.60                                                                              | 118.98    | 118.79  | 119.14 | 119.90    | 120.27   | 119.99  | 119.94   | 120.29 | 120.44   | 0.07    | 0.32    | -0.16 | 0.29  | 0.64      | 0.31      | -0.24 | -0.04 | 0.29 | 0.13 |  |
| Import                           | 51.99   | 119.49                                                                              | 119.75    | 119.54  | 119.66 | 120.34    | 120.87   | 121.04  | 121.34   | 121.80 | 122.01   | 0.01    | 0.22    | -0.18 | 0.10  | 0.57      | 0.44      | 0.14  | 0.24  | 0.39 | 0.17 |  |

GRAPH 2: MONTH-TO-MONTH INFLATION RATE (OVERALL, DOMESTIC AND IMPORTED)

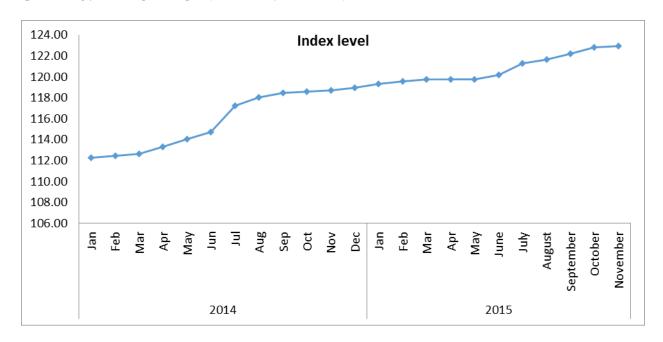


#### **MONTH-TO-MONTH INFLATION RATE**

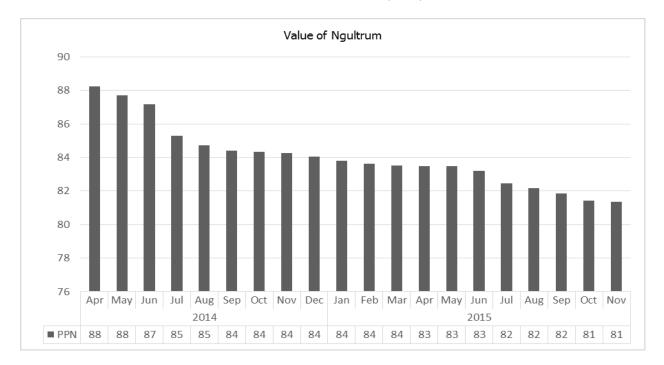
non-food prices by 0.13%.

The Month-to-Month inflation for November over previous month of October was 0.10%. The prices of the food and Non-food increased by 0.13% and 0.08% respectively. Prices for domestic goods and services increased by 0.03% on an average over the previous month with corresponding increase in food and non-food prices by 0.003% and 0.04%. The prices for the imported goods increased by 0.17% due to increase in food prices by 0.22% and

**GRAPH 3: TIME SERIES INDEX LEVEL TREND** 



**GRAPH 4: PURCHASING POWER OF NGULTRUM (PPN)** 



The PPN, as measured by CPI was 81 Ngultrum as of November 2015. This means, Ngultrum 100 in October 2015 is worth only Ngultrum 81 at December 2012 prices. The PPN has decreased by 3.47 percent in the past 12 months (i.e. from November 2014 to November 2015) due to price rise in the economy.

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## **TECHNICAL NOTES**

#### 1. Concept and Definition of CPI

The Consumer Price Index (CPI) is a measure of changes in the average retail prices of a market basket of goods and services purchased by households for day-to-day living. It shows how much, on average, prices of goods and services have increased or decreased from a particular reference period, commonly known as the base period.

#### 2. Uses of CPI

- ✓ As an economic indicator: CPI is one of the major indicators that determine the effectiveness of an economic policy. It is used to formulate fiscal and monetary policies and monitor their effect on the overall economy. Business executives, labor leaders, and other private citizens use CPI as a guide to make economic decisions.
- ✓ As a means of adjusting income payments: -Many collective bargaining agreements use CPI to determine wage rates, and index various payments to adjust the effects of inflation.
- ✓ As a deflator of economic series: CPI or its components is used as a deflator to adjust for price changes in various economic data series (e.g., GDP).

#### 3. Weights

The weights reflect the relative importance or contribution to the total consumption expenditures of all households. It is determined using the spending patterns of households during some previous weight reference period.

It is important for the weights to reflect the current consumption patterns of the household. The more current the weights, the more reflective they are of current consumer spending patterns. The international standards recommend rebasing CPI every 5 years.

The current CPI weights were updated in 2012 following the conduct of the Bhutan Living Standard Survey (BLSS) in March – May 2012. Expenditure details were broken down into imported and domestic goods to facilitate calculation of domestic and imported inflation.

#### 4. Reference Period

There is no single "base period" for a price index. It can mean different things to different users. In practice, there are three "reference periods" used.

- ✓ Weight Reference Period is the period during which household consumption values are
- ✓ collected. The weight-reference period for the new rebased CPI is 2012, that is, the period when the BLSS was conducted.
- ✓ Index Reference Period is the period when the index is set to 100. In the new CPI, the index reference period is December 2012.
- ✓ Price Reference Period is the period of the first price of each product used to calculate the elementary indices (indices for individual CPI items). The price reference period for the new CPI is the fourth Quarter 2012.

#### 5. Index Calculation Formula

Geometric Modified Laspeyres formula is used to calculate the CPI:

$$_{P_{GYo}} = \prod_{i=1}^{n} \left( \frac{P_i^t}{P_i^0} \right)^{s_i^b}$$

 $S_i^b$  = Expenditure Shares of the Base Period (weight from BLSS)

 $P_i^t$  = Current Period Price

 $P_i^o$  = Previous Period Price

 $\left(\frac{P_i^t}{P_I^o}\right) = \text{Price Relatives}$ 

#### 6. Market Basket

Market basket refers to a sample of goods and services which is representative of all goods and services purchased by the households. The present market basket has 151 items (436 varieties) compared to 80 items (363 varieties) in the previous CPI basket. The new re-based CPI uses the Classification of Individual Consumption According to Purpose (COICOP). The 12 major groups are:

- 1. Food and Non-Alcoholics Beverages;
- 2. Alcoholic Beverages & Narcotics;
- 3. Clothing and Footwear;

- 4. Housing, Water, Electricity, Gas and Other Fuels;
- 5. Furnishing, Household Equipment and Routine Household Maintenance;
- 6. Health;
- 7. Transport;
- 8. Communication;
- 9. Recreation and Culture;
- 10. Education;
- 11. Restaurant and Hotels;
- 12. Miscellaneous Goods and Services.

#### 7. Sample Outlets

Sample outlets are permanent establishments or retail shops from which monthly price of goods and services are collected or quoted. These include groceries, clothing and footwear, restaurants, hardware shops, vegetable vendors and service providers etc. The outlets are selected based on a set of pre-determined criteria. For current CPI, prices are collected from a sample of 557 outlets. Special procedures are applied to replace the outlets or the items, if they are no longer available or sold by the outlet.

#### 8. Data Collection Method

Prices are collected online from the sampled outlets by price collectors using mobile application devices once every month.

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