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NATIONAL STATISTICS BUREAU Royal Government of Bhutan





CONSUMER PRICE INDEX (CPI) BULLETIN MAY 2017

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 May 2017. This is the 42nd 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 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.

June 2017

National Statistics Bureau





YEAR-ON-YEAR INFLATION RATE

The Consumer Price Index for May 2017 [i.e., from May 2016 to May 2017] has increased by 5.65%. This was 0.12 percentage point lesser than the previous month which was 5.77%. The prices of food and non-food items has went up by 8.08% and 4.07% respectively.

The prices of local goods and services has increased by 6.59% with corresponding increase in food prices by 9.42% and non-food prices by 4.96%.

Prices of imported food and non-food items has increased by 7.01% and 3.18% respectively resulting to a total increase of 4.79%.

		Tab	ole 1: Ye	ar on Ye	ar Inde	x & perc	ent cha	nge (Na	tional)										
					1	ndex (De	cember 2	2012=100	D)					perce	ent chan	ge(%)			
Group	Mainhas	2015	2015 2016 2017									2017							
Group	Weights	Dec	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May		
Food	39.92	124.97	125.07	124.68	124.69	124.85	125.23	133.01	134.43	132.54	135.31	135.35	6.35	7.82	6.30	8.38	8.08		
Non-Food	60.08	121.94	121.90	122.29	122.44	122.65	122.87	127.12	127.45	127.68	127.64	127.87	4.28	4.22	4.27	4.07	4.07		
Overall	100	123.14	123.16	123.24	123.33	123.52	123.80	129.44	130.19	129.60	130.65	130.80	5.10	5.64	5.08	5.77	5.65		
		Table	2: Year-	on-Year	Index 8	& percen	tage ch	ange (D	omestic)			T						
	T					ndex (De	cember 2	2012=100	D)				Percent change(%)						
Group	Weights	2015		1	2016					2017					2017				
		Dec	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May		
Food	17.77	126.11	126.58		126.85	127.28	127.71	136.98	139.03	134.67	140.00	139.74	8.22	10.01	6.16	9.99	9.42		
Non-Food	30.24	-	123.15		123.77	123.99	124.29	130.23	130.43	130.45	130.46	130.46	5.75	5.39	5.39	5.21	4.96		
Total	48.01			124.73		125.20		132.69	-	131.99	133.91	133.82	6.65	7.07	5.68	6.96	6.59		
Table 3: Year-on-Year Index & percentage change (Import)																			
	<u> </u>					ndex (De	cember 2	2012=100 I))				Percent change(%)						
Group	Weights	2015		Feb	2016				Feb	2017					2017				
Food	22.15	Dec 123.91	Jan 123.74	гер 123.19	Mar 122.84	Apr 122.79	May 123.14	Jan 129.76	нер 130.71	Mar 130.71	Apr 131.52	May 131.78	Jan 4.87	Feb 6.10	Mar 6.41	Apr 7.11	May 7.01		
Non-Food	22.13	123.91	123.74	123.19	122.84	122.79	125.14	129.76		124.93	124.84	125.29	2.81	3.05	3.15	2.92	3.18		
Total	51.99	122.08	120.05		121.11		122.16			124.35	124.64	123.23	3.68	4.34	4.53	4.69	4.79		
					•	ear inde													
		1					•		2)				I						
	1					ndex (De	cember a	2012=100)					Perce	ent chan	ge(%)			
12 Major Groups		2015			2016					2017			2017						
	Weights	Dec	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May		
Food and non-alcoholic beverages	36.89	123.92	124.02	123.57	123.56		124.09	132.38	133.89	131.85	134.79	134.83	6.74	8.35	6.71	8.94	8.65		
Alcholic beverages and narcotics	3.03	138.45	138.59	139.07	139.19	139.28	140.00	140.96	141.22	141.22	141.83	141.86	1.71	1.55	1.45	1.83	1.33		
Clothing and footwear	9.20	125.33	125.35	125.49	125.51	125.49	125.86	130.13	130.86	130.86	130.90	130.86	3.81	4.28	4.27	4.31	3.98		
Housing, water, gas, electricity and other fuels	21.70	126.55	126.55	126.87	126.87	127.19	127.65	135.35	135.37	135.37	135.51	136.15	6.96	6.70	6.70	6.54	6.66		
Furnishing, household equipment and routine maintenance of the house	2.20	128.75	129.07	130.13	130.13	130.01	129.72	130.70	131.05	131.32	131.43	131.43	1.26	0.71	0.91	1.09	1.32		
Health	4.68	109.07	108.99	108.99	108.99	109.00	108.47	108.79	109.57	109.59	109.59	109.59	-0.18	0.53	0.55	0.54	1.03		
Transport	11.98	124.32	124.02	123.97	124.72	125.20	125.72	129.31	129.41	130.47	129.94	129.99	4.27	4.39	4.60	3.78	3.40		
Communication	3.03	95.62	95.62	95.62	95.62	95.62	95.62	95.61	95.61	95.62	95.62	95.62	-0.01	-0.01	0.00	0.00	0.00		
Recreation and culture	2.35	110.07	110.07	110.26	110.24	110.24	109.78	111.36	111.41	111.47	111.53	111.57	1.17	1.04	1.12	1.17	1.63		
Education	1.64	123.82	123.82	130.94	130.94	130.94	130.94	132.27	135.69	135.69	135.69	135.69	6.83	3.63	3.63	3.63	3.63		
Restaurants and hotels	1.24	125.47	125.47	125.69	125.78	125.78	125.26	127.91	128.11	128.11	128.30	128.30	1.95	1.93	1.85	2.00	2.42		
Miscellaneous goods and services	2.06	123.80	124.22	125.02	125.11	125.26	124.98	126.24	126.84	127.02	127.03	127.04	1.63	1.45	1.52	1.42	1.65		

		Table	e 5: Yea	r-on-yea	r Index	& Perce	nt Chan	ge: Foo	d Group										
						Percent change(%)													
		2015			2016					2017			2017						
Group	Weights	Dec	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May		
Bread and Cereals	9.75	124.50	125.02	125.19	125.27	125.94	125.65	131.65	132.29	132.24	132.43	132.59	5.30	5.67	5.56	5.15	5.52		
Meat	3.10	129.79	129.79	130.39	130.33	130.78	130.81	134.94	135.83	136.02	137.43	137.63	3.97	4.17	4.36	5.08	5.22		
Fish	1.06	137.83	137.83	139.23	139.16	139.67	141.51	148.82	157.18	157.18	157.09	159.59	7.97	12.89	12.95	12.47	12.77		
Milk, cheese and eggs	6.88	125.82	125.84	125.46	126.38	126.34	126.20	128.38	128.53	117.75	128.43	128.44	2.02	2.45	-6.83	1.66	1.77		
Oils and fats	3.19	113.12	113.29	113.29	113.31	113.08	113.36	114.92	115.48	116.06	116.29	116.37	1.44	1.93	2.43	2.84	2.65		
Fruit	1.68	123.65	124.68	124.91	125.16	124.92	125.63	132.50	133.10	132.62	133.95	133.95	6.27	6.55	5.96	7.23	6.63		
Vegetables	7.82	125.32	124.64	122.07	121.14	121.04	122.49	147.39	152.35	152.91	155.77	155.27	18.25	24.80	26.23	28.70	26.76		
Sugar, jam, honey etc	0.98	110.24	110.46	110.74	110.86	110.89	111.34	113.44	113.52	113.52	113.78	113.76	2.70	2.51	2.40	2.60	2.17		
Food products n.e.c	0.64	131.95	132.24	132.57	132.55	132.40	132.54	138.68	139.08	138.68	138.77	138.73	4.87	4.92	4.62	4.81	4.67		
Coffee, tea and cocoa	0.68	126.20	127.82	127.82	127.88	127.79	127.14	130.26	130.33	130.41	130.52	130.52	1.91	1.96	1.98	2.14	2.66		
Mineral water, softdrinks & juices	1.11	109.44	109.58	109.66	109.67	109.94	111.00	112.88	112.88	112.88	112.82	112.82	3.02	2.94	2.93	2.62	1.64		
SpIrits	0.65	117.54	118.11	118.59	118.72	118.72	118.80	119.77	120.19	120.19	120.19	120.33	1.40	1.35	1.24	1.24	1.29		
Wine	0.44	124.47	124.47	124.47	124.47	124.47	124.44	124.45	124.45	124.45	124.45	124.45	-0.02	-0.02	-0.02	-0.02	0.01		
Beer	0.56	112.12	112.12	111.79	111.79	111.79	112.17	113.12	113.12	113.12	113.38	113.38	0.89	1.19	1.19	1.42	1.07		
Narcotics	1.38	168.54	168.54	169.69	169.94	170.18	171.83	173.16	173.57	173.57	175.06	175.06	2.74	2.29	2.13	2.87	1.88		

		Table 6	: Year-o	n-Year I	ndex &	Percent	Change	: Non-Fo	ood Gro	up								
		Index (December 2012=100)										Percent Change(%)						
Group	Weights	2015			2016					2017					2017			
Gloup	weights	Dec	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May	Jan	Feb	Mar	Apr	May	
Clothing	6.24	125.01	125.05	125.36	125.39	125.29	125.96	130.92	131.28	131.31	131.39	131.42	4.69	4.72	4.72	4.86	4.33	
Footwear	2.96	126.01	126.00	125.76	125.76	125.90	125.63	128.48	129.99	129.93	129.87	129.70	1.97	3.36	3.31	3.15	3.24	
Housing (rental)	15.12	126.79	126.79	127.26	127.26	127.72	128.39	138.62	138.62	138.62	138.62	138.62	9.33	8.93	8.93	8.54	7.97	
Maintenancen & repair of the dwelling	1.88	114.30	114.30	114.31	114.31	114.31	114.23	114.59	114.76	114.76	114.76	114.76	0.26	0.39	0.39	0.39	0.47	
Electricity, gas & other fuels	4.54	131.83	131.83	131.83	131.83	131.83	131.83	134.94	134.94	134.94	135.61	138.72	2.37	2.37	2.37	2.87	5.23	
Furniture and furnishing, carpets and other floor coverings	0.37	120.07	120.41	121.56	121.56	121.56	121.20	121.97	122.14	122.22	122.33	122.33	1.29	0.48	0.55	0.64	0.93	
Household textiles	0.57	153.93	153.93	156.53	156.53	156.55	156.13	156.83	158.19	158.27	158.43	158.43	1.89	1.06	1.11	1.20	1.47	
Household appliances	0.42	113.54	114.30	114.40	114.40	114.39	114.13	114.97	115.02	115.02	115.11	115.11	0.59	0.54	0.54	0.63	0.86	
Glassware, tableware & utensils	0.25	139.35	139.77	141.45	141.45	141.45	141.37	142.69	142.75	142.75	143.16	143.16	2.09	0.92	0.92	1.21	1.26	
Tools and equipments for house and garden	0.24	117.71	118.03	118.31	118.31	118.10	118.57	118.29	118.40	118.59	118.46	118.46	0.21	0.08	0.24	0.31	-0.09	
Goods and services for household maintenance	0.35	121.07	121.19	121.51	121.52	120.98	120.21	122.56	122.56	123.80	123.89	123.89	1.13	0.87	1.88	2.41	3.06	
Purchase of vehicles	4.58	139.66	139.66	139.77	141.74	141.74	141.74	143.12	143.12	146.24	146.24	146.24	2.48	2.39	3.17	3.17	3.17	
Fuels & Lubricants	3.11	103.54	102.58	102.31	102.61	104.14	105.68	111.53	111.72	111.72	109.98	110.17	8.72	9.19	8.88	5.61	4.25	
Telephone and telefax equipment	0.17	91.15	91.15	91.15	91.15	91.15	91.15	91.01	91.06	91.13	91.13	91.13	-0.15	-0.11	-0.03	-0.03	-0.03	
Audio-visual, photographic & information processing equipments	0.48	107.18	107.70	107.77	107.77	107.77	107.77	107.36	107.36	107.36	107.36	107.36	-0.31	-0.38	-0.38	-0.38	-0.38	
Recreational & cultural services	0.92	97.07	97.07	97.07	97.07	97.07	97.04	100.35	100.35	100.35	100.35	100.35	3.38	3.38	3.38	3.38	3.40	
Newspapers, books & stationery	0.72	124.12	123.74	124.07	123.96	123.98	122.38	123.24	123.42	123.64	123.82	123.97	-0.40	-0.52	-0.26	-0.12	1.30	
Catering services	1.05	124.30	124.30	124.52	124.52	124.52	124.02	126.56	126.78	126.78	126.78	126.78	1.82	1.82	1.82	1.82	2.23	
Accommodation services	0.19	132.16	132.16	132.40	133.02	133.02	132.39	135.67	135.75	135.75	137.02	137.02	2.66	2.53	2.05	3.00	3.49	
Personal care	1.59	119.61	120.19	121.09	121.21	121.23	120.98	122.18	122.56	122.72	122.74	122.74	1.66	1.21	1.25	1.24	1.46	
Personal effects n.e.c	0.47	139.08	138.89	139.28	139.28	139.89	139.53	141.02	142.44	142.71	142.71	142.75	1.53	2.27	2.46	2.02	2.31	

		Tab	ole 7: Mo	nth-on-N	Ionth Ind	lex & Per	cent Cha	nge in th	e CPI (Nat	ional)													
		Index (December 2012=100)											Percent Change(%)										
Crown			20	16				2017				2016			2017								
Group	Weights	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May					
Food	39.92	128.61	129.36	131.66	132.35	133.01	134.43	132.54	135.31	135.35	0.58	1.77	0.53	0.50	1.07	-1.40	2.09	0.03					
Non-Food	60.08	123.67	124.01	125.38	126.49	127.12	127.45	127.68	127.64	127.87	0.28	1.10	0.89	0.49	0.26	0.18	-0.03	0.18					
Overall	100.00	125.62	126.12	127.85	128.80	129.44	130.19	129.60	130.65	130.80	0.40	1.37	0.74	0.50	0.58	-0.46	0.81	0.12					
Purchasing Power of Ngultrum (Nu.)		80	79	78	78	77	77	77	77	76													
Table 8: Month-on-Month Index (Domestic)																							
					Index (D	ecember	2012=100)				Percent Change (%)												
Group			20	16				2017				2016		2017									
Gloup	Weights	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May					
Food	17.77	132.09	133.04	135.21	135.93	136.98	139.03	134.67	140.00	139.74	0.72	1.63	0.53	0.78	1.49	-3.13	3.96	-0.18					
Non-Food	30.24	124.88	125.05	127.55	129.71	130.23	130.43	130.45	130.46	130.46	0.14	2.00	1.69	0.40	0.16	0.01	0.01	0.00					
Domestic	48.01	127.50	127.95	130.34	131.98	132.69	133.55	131.99	133.91	133.82	0.35	1.86	1.26	0.54	0.65	-1.16	1.45	-0.07					
				Table 9	Month-	on-Mont	h Percen	t Change	in the CPI	(Import)													
					Index (D	ecember 2	2012=100)							Percent	Change	(%)							
Group			20	16				2017				2016				2017							
Group	Weights	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May					
Food	22.15	125.75	126.35	128.73	129.40	129.76	130.71	130.71	131.52	131.78	0.48	1.88	0.52	0.28	0.73	0.00	0.62	0.19					
Non-Food	29.84	122.46	122.97	123.22	123.31	124.04	124.50	124.93	124.84	125.29	0.42	0.20	0.07	0.59	0.37	0.35	-0.07	0.36					
Import	51.99	123.85	124.40	125.54	125.87	126.44	127.11	127.36	127.65	128.02	0.44	0.91	0.27	0.46	0.52	0.20	0.22	0.29					

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



MONTH-TO-MONTH INFLATION RATE

The CPI for May over previous month of April has increased by 0.12% due to increase in food and non-food prices by 0.03% and 0.18%.

CPI of local goods and services decreased in May over April by 0.07% with corresponding decrease in food by 0.18% while non-food items has got no change over the month of April.

CPI of imported goods increased marginally by 0.29% in May due to increase in food and non-food prices by 0.19% and 0.36%.



GRAPH 3: TIME SERIES INDEX LEVEL TREND



GRAPH 4: PURCHASING POWER OF NGULTRUM (PPN)

The PPN, as measured by CPI was 76 Ngultrum as of May 2017. This means, Ngultrum 100 in May 2017 is worth only Ngultrum 76 at December 2012 prices. The PPN has decreased by 5.35% in the past 12 months (i.e. from May 2016 to May 2017) due to price rise in the economy.

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:

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

$$S_i^{b} = \text{Expenditure Shares of the Base}$$

 S_i = Expenditure Shares of the Base Period (weight from BLSS) P_t^{\ddagger} = Current Period Price P_i^{\ddagger} = Previous Period Price $\left(\frac{P_i^{\ddagger}}{P_i^{\ddagger}}\right)$ = 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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