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NATIONAL STATISTICS BUREAU Royal Government of Bhutan



CONSUMER PRICE INDEX (CPI) BULLETIN JULY 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

July 2017. This is the 44th 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

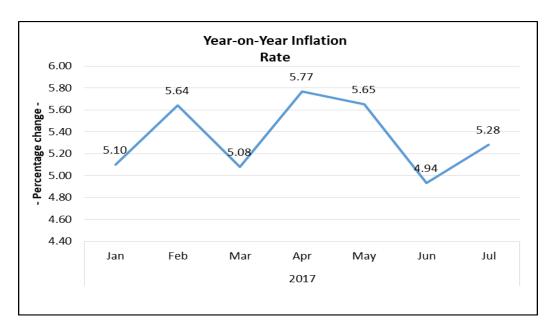
forward for their continued support.

August 2017

National Statistics Bureau

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GRAPH 1: YEAR-ON-YEAR INFLATION



YEAR-ON-YEAR INFLATION RATE

The Consumer Price Index for July 2017 [i.e., from July 2016 to July 2017] has increased by 5.28%. This was 0.36 percentage point higher than the previous month which was 4.94%. The prices of food and non-food items has went up by 7.24% and 4% respectively.

The prices of local goods and services has increased by 6% with corresponding increase in food prices by 7.31% and non-food prices by 5.23%.

Prices of imported food and non-food items has increased by 7.19% and 2.76% respectively resulting to a total increase of 4.63%.

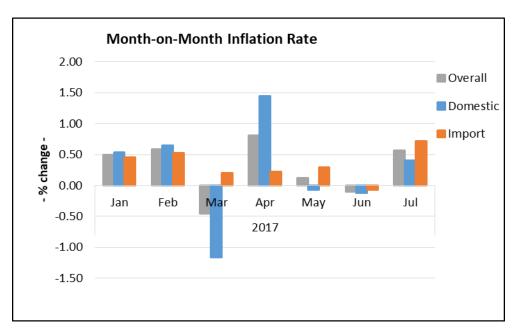
				Table 1:	Year or	n Year In	dex & p	ercent o	change (Nationa	al)														
		Index (December 2012=100)														percent change(%)									
_				2(016						2017				2017										
Group	Weights	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul				
Food	39.92	124.68	124.69	124.85	125.23	126.76	127.26	133.01	134.43	132.54	135.31	135.35	135.04	136.47	6.35	7.82	6.30	8.38	8.08	6.53	7.24				
Non-Food	60.08	122.29	122.44	122.65	122.87	123.07	123.22	127.12	127.45	127.68	127.64	127.87	127.85	128.15	4.28	4.22	4.27	4.07	4.07	3.89	4.00				
Overall	100	123.24	123.33	123.52	123.80	124.53	124.82	129.44	130.19	129.60	130.65	130.80	130.67	131.41	5.10	5.64	5.08	5.77	5.65	4.94	5.28				
			Ta	ble 2: Y	ear-on-Y	ear Inde	x & per	centage	change	(Dome	stic)														
		Index (December 2012=100)													Percent change(%)										
Group	Weights			20	016						2017							2017							
Group	weights	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul				
Food	17.77	126.38	126.85	127.28	127.71	130.19	130.42	136.98	139.03	134.67	140.00	139.74	139.26	139.95	8.22	10.01	6.16	9.99	9.42	6.97	7.31				
Non-Food	30.24	123.76	123.77	123.99	124.29	124.32	124.41	130.23	130.43	130.45	130.46	130.46	130.47	130.91	5.75	5.39	5.39	5.21	4.96	4.94	5.23				
Total	48.01	124.73	124.90	125.20	125.55	126.46	126.60	132.69	133.55	131.99	133.91	133.82	133.65	134.19	6.65	7.07	5.68	6.96	6.59	5.69	6.00				
Table 3: Year-on-Year Index & percentage change (Import)																									
Index (December 2012=100) Percent change(%)																									
_				2016							2017	<u>!</u> 017				2017									
Group	Weights	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul				
Food	22.15	123.19	122.84	122.79	123.14	123.94	124.64	129.76	130.71	130.71	131.52	131.78	131.60	133.60	4.87	6.10	6.41	7.11	7.01	6.18	7.19				
Non-Food	29.84	120.81	121.11	121.30	121.44	121.81	122.03	124.04	124.50	124.93	124.84	125.29	125.26	125.41	2.81	3.05	3.15	2.92	3.18	2.83	2.76				
Total	51.99	121.82	121.84	121.93	122.16	122.71	123.14	126.44	127.11	127.36	127.65	128.02	127.92	128.83	3.68	4.34	4.53	4.69	4.79	4.24	4.63				
			·																·						
					Tabl	e 4: Yea	r on Yea	r index	Group	Level															
						In	dex (Dec	ember 2	012=100)							Perce	ent cha	nge(%)						
12 Major Crausa				20	016			2017								2017									
12 Major Groups	Weights	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul				
Food and non-alcoholic beverages	36.89	123.57	123.56	123.73	124.09	125.72	126.25	132.38	133.89	131.85	134.79	134.83	134.49	135.90	6.74	8.35	6.71	8.94	8.65	6.98	7.64				
Alcholic beverages and narcotics	3.03	139.07	139.19	139.28	140.00	140.10	140.12	140.96	141.22	141.22	141.83	141.86	141.89	143.69	1.71	1.55	1.45	1.83	1.33	1.28	2.55				
Clothing and footwear	9.20	125.49	125.51	125.49	125.86	125.95	126.34	130.13	130.86	130.86	130.90	130.86	130.75	131.45	3.81	4.28	4.27	4.31	3.98	3.81	4.05				
Housing, water, gas, electricity and other fuels	21.70	126.87	126.87	127.19	127.65	127.64	127.64	135.35	135.37	135.37	135.51	136.15	136.27	136.78	6.96	6.70	6.70	6.54	6.66	6.76	7.16				
Furnishing, household equipment and routine maintenance of the house	2.20	130.13	130.13	130.01	129.72	129.69	129.95	130.70	131.05	131.32	131.43	131.43	131.76	132.23	1.26	0.71	0.91	1.09	1.32	1.60	1.75				
Health	4.68	108.99	108.99	109.00	108.47	108.79	108.79	108.79	109.57	109.59	109.59	109.59	109.59	109.98	-0.18	0.53	0.55	0.54	1.03	0.74	1.10				
Transport	11.98	123.97	124.72	125.20	125.72	126.48	126.74	129.31	129.41	130.47	129.94	129.99	129.72	129.29	4.27	4.39	4.60	3.78	3.40	2.56	2.01				
Communication	3.03	95.62	95.62	95.62	95.62	95.62	95.61	95.61	95.61	95.62	95.62	95.62	95.63	95.63	-0.01	-0.01	0.00	0.00	0.00	0.02	0.02				
Recreation and culture	2.35	110.26	110.24	110.24	109.78	109.72	109.62	111.36	111.41	111.47	111.53	111.57	111.58	111.64	1.17	1.04	1.12	1.17	1.63	1.70	1.84				
Education	1.64	130.94	130.94	130.94	130.94	130.94	132.27	132.27	135.69	135.69	135.69	135.69	135.69	136.63	6.83	3.63	3.63	3.63	3.63	3.63	3.29				
Restaurants and hotels	1.24	125.69	125.78	125.78	125.26	125.72	125.72	127.91	128.11	128.11	128.30	128.30	128.30	128.06	1.95	1.93	1.85	2.00	2.42	2.05	1.86				
Miscellaneous goods and services	2.06	125.02	125.11	125.26	124.98	125.23	125.47	126.24	126.84	127.02	127.03	127.04	127.12	128.09	1.63	1.45	1.52	1.42	1.65	1.51	2.08				
All	100.00	123.24	123.33	123.52	123.80	124.53	124.82	129.44	130.19	129.60	130.65	130.80	130.67	131.41	5.10	5.64	5.08	5.77	5.65	4.94	5.28				

				Table	5: Year	-on-year	Index 8	Percen	t Chang	e: Food	Group														
		Index (December 2012=100)														Percent change(%)									
_				20)16						2017				2017										
Group	Weights	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul				
Bread and Cereals	9.75	125.19	125.27	125.94	125.65	127.15	127.67	131.65	132.29	132.24	132.43	132.59	133.11	134.58	5.30	5.67	5.56	5.15	5.52	4.69	5.41				
Meat	3.10	130.39	130.33	130.78	130.81	131.29	132.43	134.94	135.83	136.02	137.43	137.63	137.63	138.35	3.97	4.17	4.36	5.08	5.22	4.83	4.47				
Fish	1.06	139.23	139.16	139.67	141.51	142.86	144.04	148.82	157.18	157.18	157.09	159.59	159.91	160.20	7.97	12.89	12.95	12.47	12.77	11.93	11.21				
Milk, cheese and eggs	6.88	125.46	126.38	126.34	126.20	128.20	128.04	128.38	128.53	117.75	128.43	128.44	128.88	128.37	2.02	2.45	-6.83	1.66	1.77	0.53	0.26				
Oils and fats	3.19	113.29	113.31	113.08	113.36	114.11	114.08	114.92	115.48	116.06	116.29	116.37	116.43	117.47	1.44	1.93	2.43	2.84	2.65	2.03	2.98				
Fruit	1.68	124.91	125.16	124.92	125.63	125.82	126.59	132.50	133.10	132.62	133.95	133.95	133.39	135.27	6.27	6.55	5.96	7.23	6.63	6.01	6.86				
Vegetables	7.82	122.07	121.14	121.04	122.49	125.56	126.71	147.39	152.35	152.91	155.77	155.27	152.36	156.79	18.25	24.80	26.23	28.70	26.76	21.35	23.73				
Sugar, jam, honey etc	0.98	110.74	110.86	110.89	111.34	111.60	112.30	113.44	113.52	113.52	113.78	113.76	113.51	113.73	2.70	2.51	2.40	2.60	2.17	1.72	1.27				
Food products n.e.c	0.64	132.57	132.55	132.40	132.54	134.09	133.91	138.68	139.08	138.68	138.77	138.73	138.29	139.45	4.87	4.92	4.62	4.81	4.67	3.13	4.14				
Coffee, tea and cocoa	0.68	127.82	127.88	127.79	127.14	128.08	128.45	130.26	130.33	130.41	130.52	130.52	130.59	131.16	1.91	1.96	1.98	2.14	2.66	1.96	2.11				
Mineral water, softdrinks & juices	1.11	109.66	109.67	109.94	111.00	111.50	111.61	112.88	112.88	112.88	112.82	112.82	112.82	112.81	3.02	2.94	2.93	2.62	1.64	1.19	1.08				
SpIrits	0.65	118.59	118.72	118.72	118.80	119.30	119.30	119.77	120.19	120.19	120.19	120.33	120.45	119.69	1.40	1.35	1.24	1.24	1.29	0.97	0.33				
Wine	0.44	124.47	124.47	124.47	124.44	124.44	124.44	124.45	124.45	124.45	124.45	124.45	124.45	124.52	-0.02	-0.02	-0.02	-0.02	0.01	0.01	0.07				
Beer	0.56	111.79	111.79	111.79	112.17	112.35	112.35	113.12	113.12	113.12	113.38	113.38	113.38	113.19	0.89	1.19	1.19	1.42	1.07	0.91	0.75				
Narcotics	1.38	169.69	169.94	170.18	171.83	171.64	171.69	173.16	173.57	173.57	175.06	175.06	175.06	180.58	2.74	2.29	2.13	2.87	1.88	1.99	5.18				

			1	Table 6:	Year-or	-Year In	dex & P	ercent (Change:	Non-Fo	od Gro	nb											
						Ir	ndex (Dec	ember 2	012=100)					Percent Change(%)								
Group	Weights		2016 2017												2017								
Gloup	Weights	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul		
Clothing	6.24	125.36	125.39	125.29	125.96	126.28	126.70	130.92	131.28	131.31	131.39	131.42	131.47	132.39	4.69	4.72	4.72	4.86	4.33	4.11	4.49		
Footwear	2.96	125.76	125.76	125.90	125.63	125.26	125.56	128.48	129.99	129.93	129.87	129.70	129.24	129.50	1.97	3.36	3.31	3.15	3.24	3.18	3.13		
Housing (rental)	15.12	127.26	127.26	127.72	128.39	128.39	128.39	138.62	138.62	138.62	138.62	138.62	138.62	139.14	9.33	8.93	8.93	8.54	7.97	7.97	8.38		
Maintenancen & repair of the dwelling	1.88	114.31	114.31	114.31	114.23	114.20	114.17	114.59	114.76	114.76	114.76	114.76	114.76	114.83	0.26	0.39	0.39	0.39	0.47	0.49	0.58		
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	139.31	140.01	2.37	2.37	2.37	2.87	5.23	5.67	6.21		
Furniture and furnishing, carpets and other floor coverings	0.37	121.56	121.56	121.56	121.20	120.92	120.92	121.97	122.14	122.22	122.33	122.33	122.33	122.33	1.29	0.48	0.55	0.64	0.93	1.17	1.17		
Household textiles	0.57	156.53	156.53	156.55	156.13	156.21	156.37	156.83	158.19	158.27	158.43	158.43	159.06	159.49	1.89	1.06	1.11	1.20	1.47	1.82	2.00		
Household appliances	0.42	114.40	114.40	114.39	114.13	113.82	114.61	114.97	115.02	115.02	115.11	115.11	115.11	116.77	0.59	0.54	0.54	0.63	0.86	1.13	1.89		
Glassware, tableware & utensils	0.25	141.45	141.45	141.45	141.37	142.08	142.61	142.69	142.75	142.75	143.16	143.16	143.16	144.48	2.09	0.92	0.92	1.21	1.26	0.76	1.31		
Tools and equipments for house and garden	0.24	118.31	118.31	118.10	118.57	118.60	118.60	118.29	118.40	118.59	118.46	118.46	118.46	118.48	0.21	0.08	0.24	0.31	-0.09	-0.12	-0.10		
Goods and services for household maintenance	0.35	121.51	121.52	120.98	120.21	120.17	120.20	122.56	122.56	123.80	123.89	123.89	125.05	124.28	1.13	0.87	1.88	2.41	3.06	4.06	3.39		
Purchase of vehicles	4.58	139.77	141.74	141.74	141.74	141.74	143.12	143.12	143.12	146.24	146.24	146.24	146.24	146.24	2.48	2.39	3.17	3.17	3.17	3.17	2.18		
Fuels & Lubricants	3.11	102.31	102.61	104.14	105.68	108.01	107.34	111.53	111.72	111.72	109.98	110.17	109.28	107.62	8.72	9.19	8.88	5.61	4.25	1.18	0.26		
Telephone and telefax equipment	0.17	91.15	91.15	91.15	91.15	91.15	90.98	91.01	91.06	91.13	91.13	91.13	91.42	91.33	-0.15	-0.11	-0.03	-0.03	-0.03	0.29	0.39		
Audio-visual, photographic & information processing equipments	0.48	107.77	107.77	107.77	107.77	107.82	107.36	107.36	107.36	107.36	107.36	107.36	107.36	107.38	-0.31	-0.38	-0.38	-0.38	-0.38	-0.42	0.02		
Recreational & cultural services	0.92	97.07	97.07	97.07	97.04	97.04	97.04	100.35	100.35	100.35	100.35	100.35	100.35	100.35	3.38	3.38	3.38	3.38	3.40	3.40	3.40		
Newspapers, books & stationery	0.72	124.07	123.96	123.98	122.38	122.21	122.21	123.24	123.42	123.64	123.82	123.97	123.97	124.16	-0.40	-0.52	-0.26	-0.12	1.30	1.44	1.59		
Catering services	1.05	124.52	124.52	124.52	124.02	124.50	124.50	126.56	126.78	126.78	126.78	126.78	126.78	126.45	1.82	1.82	1.82	1.82	2.23	1.83	1.57		
Accommodation services	0.19	132.40	133.02	133.02	132.39	132.72	132.72	135.67	135.75	135.75	137.02	137.02	137.02	137.30	2.66	2.53	2.05	3.00	3.49	3.23	3.45		
Personal care	1.59	121.09	121.21	121.23	120.98	121.21	121.51	122.18	122.56	122.72	122.74	122.74	122.83	123.43	1.66	1.21	1.25	1.24	1.46	1.33	1.58		
Personal effects n.e.c	0.47	139.28	139.28	139.89	139.53	139.84	139.88	141.02	142.44	142.71	142.71	142.75	142.78	145.18	1.53	2.27	2.46	2.02	2.31	2.11	3.79		

		Tab	le 7: Mo	nth-on-N	/lonth In	dex & Pe	rcent Ch	ange in t	he CPI (N	ational)															
			Index (December 2012=100)												Percent Change(%)										
Group			2016						2017																
Group	Weights	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul							
Food	39.92	129.36	131.66	132.35	133.01	134.43	132.54	135.31	135.35	135.04	136.47	0.50	1.07	-1.40	2.09	0.03	-0.23	1.06							
Non-Food	60.08	124.01	125.38	126.49	127.12	127.45	127.68	127.64	127.87	127.85	128.15	0.49	0.26	0.18	-0.03	0.18	-0.01	0.23							
Overall	100.00	126.12	127.85	128.80	129.44	130.19	129.60	130.65	130.80	130.67	131.41	0.50	0.58	-0.46	0.81	0.12	-0.10	0.56							
Purchasing Power of Ngultrum (Nu.)		79	78	78	77	77	77	77	76	77	76														
Table 8: Month-on-Month Index (Domestic)																									
			Index (December 2012=100)											Percent Change (%)											
Group			2016 2017												2017										
Group	Weights	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul							
Food	17.77	133.04	135.21	135.93	136.98	139.03	134.67	140.00	139.74	139.26	139.95	0.78	1.49	-3.13	3.96	-0.18	-0.35	0.50							
Non-Food	30.24	125.05	127.55	129.71	130.23	130.43	130.45	130.46	130.46	130.47	130.91	0.40	0.16	0.01	0.01	0.00	0.01	0.34							
Domestic	48.01	127.95	130.34	131.98	132.69	133.55	131.99	133.91	133.82	133.65	134.19	0.54	0.65	-1.16	1.45	-0.07	-0.12	0.40							
				Table 9	9: Month	ı-on-Moı	nth Perce	nt Chang	e in the	CPI (Imp	ort)														
					Inde	x (Decem	ber 2012	:100)						Perce	nt Chang	ge (%)									
C. T.			2016					2017					0.000.000.000.000.000.000.000.000.000		2017			500000000000000000000000000000000000000							
Group	Weights	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Jan	Feb	Mar	Apr	May	Jun	Jul							
Food	22.15	126.35	128.73	129.40	129.76	130.71	130.71	131.52	131.78	131.60	133.60	0.28	0.73	0.00	0.62	0.19	-0.14	1.52							
Non-Food	29.84	122.97	123.22	123.31	124.04	124.50	124.93	124.84	125.29	125.26	125.41	0.59	0.37	0.35	-0.07	0.36	-0.03	0.12							
Import	51.99	124.40	125.54	125.87	126.44	127.11	127.36	127.65	128.02	127.92	128.83	0.46	0.52	0.20	0.22	0.29	-0.07	0.71							

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



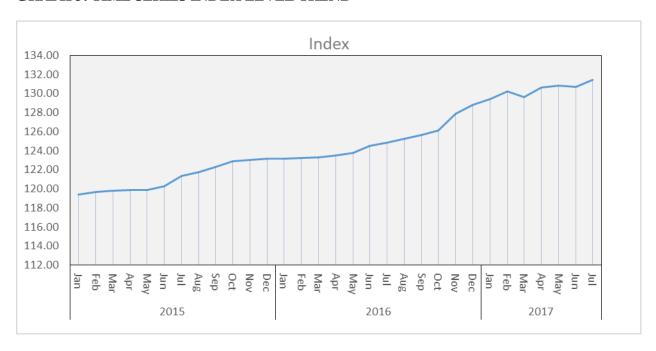
MONTH-TO-MONTH INFLATION RATE

The CPI for July over previous month of June increased by 0.56% due to increase in food and non-food prices by 1.06% and 0.23%.

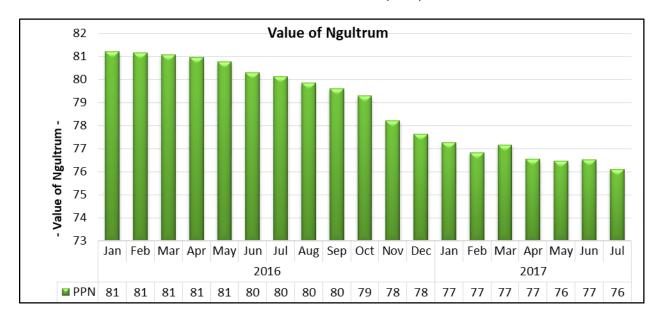
CPI of local goods and services increased in July over June by 0.40% with corresponding increase in food prices by 0.50% and non-food items by 0.34%.

CPI of imported goods decreased by 0.71% in July due to increase in food and non-food prices by 1.52% and 0.12% respectively.

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 July 2017. This means, Ngultrum 100 in July 2017 is worth only Ngultrum 76 at December 2012 prices. The PPN has decreased by 5.02% in the past 12 months (i.e. from July 2016 to July 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 = Expenditure Shares of the Base Period (weight from BLSS)

 P_i^t = Current Period Price

 P_i^0 = 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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