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# NATIONAL STATISTICS BUREAU Royal Government of Bhutan



**CONSUMER PRICE INDEX (CPI) BULLETIN DECEMBER 2018** 

## ECONOMIC AND ENVIRONMENTAL STATISTICS DIVISION NATIONAL STATISTICS BUREAU

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**FOREWORD** 

National Statistics Bureau (NSB) is pleased to release the Consumer Price Index (CPI) Bulletin

for December 2018. This is the 61st series of monthly CPI Bulletin published by Economic and

Environmental Statistics 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

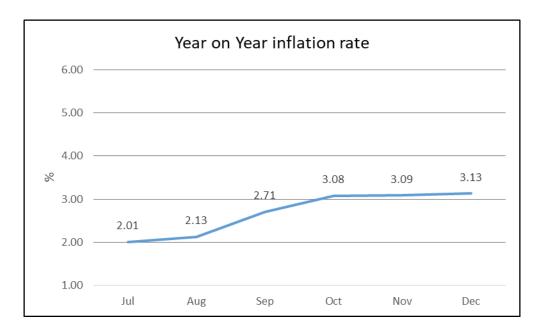
forward for their continued support.

January 2019

**National Statistics Bureau** 

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



#### YEAR-ON-YEAR INFLATION RATE

The Consumer Price Index in December 2018 [i.e., from December 2017 to December 2018] increased by 3.13%, up by 0.04 percentage point compared to November 2018. The increase in rate compared to November is mainly due to increase in food prices by 3.87% while non-food prices dropped by 0.11 percentage point to 2.65% compared to 2.76% in November.

Local goods and services recorded higher increase with 3.24% compared to imported goods and services which increased by 3.03%. Food prices recorded higher increase for both local and imported compared to non-food group which increased by 2.65% for both. However, local food prices increased by 4.26% as compared to 3.55% for imported food prices.

			Table	1: Year	-on-Yea	r Index	& perce	ntage cl	nange (	Nation	al)										
						Index (	Decemb	er 2012=	100)					Percent change (%)							
Group	Weights									20:	L8			2018							
•		Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec		
Food	39.92	136.47			138.36		141.58	<b></b>						4.00	3.49	3.86	4.00	3.58	3.87		
Non-Food	60.08	128.15	128.45	128.20	128.34	127.86	127.67	129.06	130.04	130.69	131.52	131.40	131.05	0.71	1.24	1.95	2.47	2.76	2.65		
Overall	100	131.41	131.90	131.79	132.25	132.59	133.05	134.05	134.71	135.35	136.33	136.69	137.22	2.01	2.13	2.71	3.08	3.09	3.13		
			Table 2	: Year-	on-Year	Index 8	& percer	ntage ch	ange (I	Domest	ic)										
						Index (	Decemb	er 2012=	100)					Percent change (%)							
Group	Weights			20	17					20:	L8					20	18				
Group	weights	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec		
Food	17.77	139.95	140.23	139.76	140.60	142.69	144.87	144.39	144.01	144.50	146.50	148.10	151.04	3.17	2.70	3.39	4.20	3.79	4.26		
Non-Food	30.24	130.91	131.00	130.97	131.08	131.10	130.38	130.88	132.42	132.79	133.78	133.78	133.83	-0.02	1.09	1.39	2.06	2.05	2.65		
Total	48.01	134.19	134.35	134.16	134.53	135.27	135.56	135.73	136.60	137.01	138.35	138.91	139.96	1.15	1.68	2.12	2.85	2.69	3.24		
Total 48.01   134.19   134.35   134.16   134.53   135.27   135.56   135.73   136.60   137.01   138.35   138.91   139.96   1.15   1.68   2.12   2.85   2.69   3.24    Table 3: Year-on-Year Index & percentage change (Import)																					
			er 2012=	100)					Percent change (%)												
C	\4/-:-b-	2017								20:	L8					20	18				
Group	Weights	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec		
Food	22.15	133.60	134.78	135.35	136.44	137.78	138.83	139.84	140.35	141.09	141.69	142.50	143.76	4.67	4.13	4.24	3.85	3.42	3.55		
Non-Food	29.84	125.41	125.92	125.44	125.63	124.66	124.99	127.24	127.67	128.60	129.27	129.02	128.29	1.46	1.39	2.52	2.90	3.49	2.65		
Total	51.99	128.83	129.62	129.57	130.13	130.09	130.71	132.46	132.92	133.78	134.42	134.60	134.67	2.82	2.55	3.25	3.30	3.46	3.03		
				Tab	le 4: Ye	ar on Ye	ear inde	x: Grou	p Level												
						Index (	Decemb	er 2012=	100)						P	ercent c	hange(%	5)			
				20	)17					20:	L8	***************************************		2018							
12 Major Groups	Weights	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec		
Food and non-alcoholic beverages	36.89	135.90	136.63	136.75	137.79	139.55	141.01	141.28	141.35	142.02	143.31	144.52	146.66	3.96	3.45	3.85	4.00	3.56	4.01		
Alcholic beverages and narcotics	3.03	143.69	145.27	145.24	145.52	146.04	148.70	150.16	150.94	151.00	151.37	151.69	151.89	4.50	3.91	3.96	4.02	3.87	2.15		
Clothing and footwear	9.20	131.45	131.99	131.73	132.00	132.03	132.44	134.58	135.36	135.80	135.87	135.90	136.24	2.38	2.56	3.08	2.93	2.93	2.86		
Housing, water, gas, electricity and other fuels	21.70	136.78	136.94	136.93	136.95	136.96	136.96	137.41	139.37	139.79	139.81	139.83	139.85	0.46	1.77	2.09	2.09	2.10	2.11		
Furnishing, household equipment and routine	2.20			***************************************								***************************************									
maintenance of the house	2.20	132.23	132.40	132.27	132.36	132.38	133.09	133.37	134.49	134.98	135.10	135.22	135.59	0.86	1.57	2.05	2.08	2.15	1.88		
Health	4.68	109.98	110.47	110.51	110.47	110.47	110.98	111.00	111.00	113.55	114.58	114.58	114.58	0.93	0.48	2.75	3.72	3.72	3.24		
Transport	11.98	129.29	129.72	128.63	128.80	126.33	124.48	128.02	128.37	129.11	132.57	131.81	129.60	-0.98	-1.04	0.38	2.93	4.34	4.11		
Communication	3.03	95.63	95.62	95.62	95.62	95.62	95.62	95.61	95.74	95.74	95.86	95.86	95.86	-0.02	0.12	0.12	0.25	0.25	0.25		
Recreation and culture	2.35	111.64	111.55	111.63	111.81	111.79	111.79	111.94	112.07	112.34	112.36	112.49	112.50	0.27	0.47	0.63	0.50	0.63	0.63		
Education	1.64	136.63	136.63	136.63	136.63	136.63	136.63	141.20	141.20	141.20	141.20	141.20	141.20	3.35	3.35	3.35	3.35	3.35	3.35		
Restaurants and hotels	1.24	128.06	128.77	128.77	130.63	131.00	132.86	134.95	138.14	139.99	139.99	140.05	141.03	5.38	7.28	8.71	7.17	6.90	6.15		
Miscellaneous goods and services	2.06	128.09	128.73	128.75	129.33	129.31	129.71	130.73	131.14	131.18	131.44	131.55	131.74	2.07	1.87	1.89	1.63	1.74	1.57		
All	100	131.41	131.90	131.79	132.25	132.59	133.05	134.05	134.71	135.35	136.33	136.69	137.22	2.01	2.13	2.71	3.08	3.09	3.13		

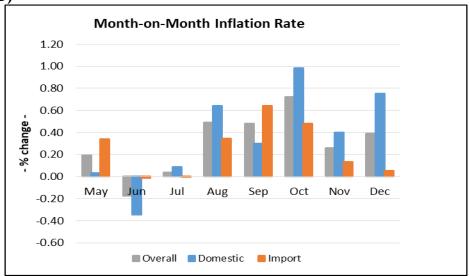
			Table	5: Year	-on-yea	r Index	& Perce	nt Char	nge: Fo	od Gro	ир												
		Index (December 2012=100)														Percent change(%)							
_				20	)17			2018							2018								
Group	Weights	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec				
Bread and Cereals	9.75	134.58	135.77	136.41	136.93	138.85	139.35	140.87	141.62	142.60	143.64	143.82	144.57	4.67	4.31	4.54	4.90	3.58	3.74				
Meat	3.10	138.35	139.38	140.12	141.71	142.46	142.90	146.34	147.07	147.73	148.07	148.88	150.44	5.78	5.52	5.43	4.49	4.51	5.27				
Fish	1.06	160.20	162.89	162.88	162.63	164.22	164.57	176.44	177.55	177.42	177.50	178.03	179.08	10.14	9.00	8.93	9.15	8.41	8.82				
Milk, cheese and eggs	6.88	128.37	128.26	128.09	128.97	129.89	132.32	135.26	135.60	136.11	138.77	140.03	140.45	5.36	5.73	6.26	7.59	7.81	6.15				
Oils and fats	3.19	117.47	118.12	118.01	118.17	118.85	119.01	119.05	119.54	119.94	120.43	120.91	121.06	1.34	1.20	1.63	1.91	1.73	1.72				
Fruit	1.68	135.27	134.75	133.69	135.75	139.71	145.23	144.55	141.48	141.36	144.09	148.17	151.96	6.86	5.00	5.74	6.14	6.05	4.63				
Vegetables	7.82	156.79	158.17	157.98	160.53	164.17	167.01	159.49	158.18	159.30	160.83	163.99	172.20	1.72	0.00	0.83	0.19	-0.11	3.11				
Sugar, jam, honey etc	0.98	113.73	113.08	113.39	113.93	114.30	114.26	116.34	116.38	116.38	116.66	116.66	117.14	2.30	2.92	2.64	2.40	2.07	2.52				
Food products n.e.c	0.64	139.45	138.50	137.88	138.20	139.07	139.09	139.70	141.21	141.98	141.00	141.88	141.69	0.18	1.96	2.97	2.03	2.02	1.87				
Coffee, tea and cocoa	0.68	131.16	132.40	132.54	132.54	133.46	133.46	134.21	135.17	135.17	135.51	135.51	135.51	2.33	2.09	1.98	2.24	1.53	1.53				
Mineral water, softdrinks & juices	1.11	112.81	113.02	113.58	113.59	113.90	114.41	115.37	115.62	115.75	115.85	116.00	116.01	2.27	2.30	1.91	1.99	1.85	1.40				
Spirits	0.65	119.69	120.66	120.66	120.66	120.80	121.01	121.77	121.77	121.77	121.77	122.27	122.65	1.73	0.92	0.92	0.92	1.21	1.35				
Wine	0.44	124.52	124.53	124.53	124.55	124.55	123.11	123.15	123.16	123.16	123.16	123.20	123.76	-1.10	-1.10	-1.10	-1.12	-1.09	0.53				
Beer	0.56	113.19	113.19	113.19	113.97	114.87	115.64	118.43	118.43	118.81	119.20	119.98	119.98	4.63	4.62	4.96	4.59	4.45	3.75				
Narcotics	1.38	180.58	184.26	184.19	184.45	185.21	192.71	194.42	196.64	196.53	197.34	197.34	197.34	7.66	6.72	6.70	6.99	6.55	2.40				

		1	able 6:	Year-o	n-Year I	ndex &	Percent	Change	e: Non-	Food G	roup											
			Index (December 2012=100)												Percent Change(%)							
Group	Weights	2017 201									18			2018								
	weights	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec	Jul	Aug	Sep	Oct	Nov	Dec			
Clothing	6.24	132.39	133.22	132.92	133.29	133.24	133.48	135.02	135.26	135.42	135.53	135.57	136.09	1.99	1.53	1.88	1.68	1.75	1.96			
Footwear	2.96	129.50	129.44	129.28	129.32	129.52	130.29	133.66	135.58	136.60	136.60	136.60	136.54	3.21	4.74	5.66	5.63	5.47	4.80			
Housing (rental)	15.12	139.14	139.14	139.14	139.14	139.14	139.14	139.14	141.98	142.53	142.53	142.53	142.53	0.00	2.04	2.44	2.44	2.44	2.44			
Maintenancen & repair of the dwelling	1.88	114.83	115.50	115.29	115.42	115.51	115.54	115.95	115.99	116.15	116.15	116.15	116.13	0.97	0.42	0.75	0.63	0.55	0.52			
Electricity, gas & other fuels	4.54	140.01	140.44	140.48	140.53	140.53	140.53	142.55	142.56	142.69	142.81	142.92	143.03	1.82	1.51	1.58	1.62	1.70	1.78			
Furniture and furnishing, carpets and other floor																						
coverings	0.37	122.33	124.42	123.95	124.29	124.29	126.43	127.23	127.66	129.03	129.03	129.03	129.08	4.00	2.60	4.10	3.81	3.81	2.10			
Household textiles	0.57	159.49	159.52	159.14	159.19	159.19	159.32	159.42	161.46	162.15	162.34	162.37	163.37	-0.04	1.21	1.89	1.98	2.00	2.54			
Household appliances	0.42	116.77	116.42	116.56	116.58	116.58	117.74	117.67	119.43	119.63	119.65	119.75	119.81	0.77	2.59	2.63	2.63	2.71	1.76			
Glassware, tableware & utensils	0.25	144.48	143.18	143.18	143.33	143.33	143.33	143.61	143.61	143.92	143.92	144.50	144.53	-0.60	0.30	0.51	0.41	0.82	0.84			
Tools and equipments for house and garden	0.24	118.48	117.80	117.80	117.80	117.79	117.79	118.49	118.83	119.01	119.35	119.39	120.46	0.01	0.88	1.03	1.32	1.36	2.27			
Goods and services for household maintenance	0.35	124.28	124.79	124.79	124.79	124.95	125.22	125.31	126.38	126.38	126.63	126.78	126.74	0.83	1.27	1.27	1.47	1.46	1.21			
Purchase of vehicles	4.58	146.24	146.24	143.04	143.04	140.63	140.96	145.16	145.16	145.16	145.16	145.16	145.16	-0.73	-0.73	1.48	1.48	3.22	2.98			
Fuels & Lubricants	3.11	107.62	109.24	109.24	109.80	104.49	104.57	111.18	111.91	114.20	117.37	114.79	107.55	3.31	2.44	4.53	6.90	9.86	2.86			
Telephone and telefax equipment	0.17	91.33	91.25	91.25	91.25	91.25	91.25	90.93	93.28	93.28	95.38	95.38	95.38	-0.44	2.23	2.23	4.52	4.52	4.52			
Audio-visual, photographic & information																						
processing equipments	0.48	107.38	107.55	107.55	107.65	107.54	107.54	107.54	107.59	107.59	107.60	107.60	107.60	0.15	0.03	0.03	-0.04	0.06	0.06			
Recreational & cultural services	0.92	100.35	100.36	100.39	100.39	100.39	100.39	100.39	100.51	100.52	100.52	100.52	100.52	0.04	0.15	0.13	0.13	0.13	0.13			
Newspapers, books & stationery	0.72	124.16	123.46	123.87	124.28	124.28	124.28	124.41	124.64	125.23	125.23	125.69	125.69	0.20	0.96	1.10	0.76	1.13	1.13			
Catering services	1.05	126.45	127.23	127.23	129.38	129.76	131.94	134.39	137.15	139.32	139.32	139.38	140.54	6.28	7.80	9.50	7.68	7.42	6.52			
Accommodation services	0.19	137.30	137.63	137.63	137.74	138.08	138.08	138.08	143.76	143.76	143.76	143.76	143.76	0.57	4.45	4.45	4.38	4.11	4.11			
Personal care	1.59	123.43	123.95	123.97	124.69	124.66	125.15	125.95	126.42	126.48	126.80	126.86	126.93	2.04	2.00	2.02	1.69	1.77	1.43			
Personal effects n.e.c	0.47	145.18	146.33	146.33	146.34	146.34	146.39	148.30	148.46	148.46	148.46	148.74	149.39	2.15	1.45	1.45	1.44	1.64	2.05			

		Table 7:	Month	-on-Mo	nth Ind	ex & Pe	ercent C	hange i	n the CI	PI (Natio	nal)									
				In	dex (De	cember	2012=10	Percent Change(%)												
Group						2018			2018											
Gloup	Weights	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Food	39.92	142.76	142.83	141.92	141.93	142.05	142.68	143.90	145.05	147.05	0.05	-0.63	0.01	0.09	0.44	0.86	0.80	1.38		
Non-Food	60.08	128.44	128.81	128.99	129.06	130.04	130.69	131.52	131.40	131.05	0.29	0.14	0.06	0.76	0.50	0.63	-0.09	-0.26		
Overall	100.00	133.98	134.23	134.00	134.05	134.71	135.35	136.33	136.69	137.22	0.19	-0.17	0.04	0.49	0.48	0.72	0.26	0.39		
Purchasing Power of Ngultrum (Nu.)		75	75 74 75 75 74 74 73 73 73																	
Table 8: Month-on-Month Index (Domestic)																				
				In	dex (De	cember	2012=10	0)			Percent Change (%)									
Group						2018				2018										
Group	Weights	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Food	17.77	145.66	145.79	144.45	144.39	144.01	144.50	146.50	148.10	151.04	0.09	-0.92	-0.04	-0.26	0.34	1.39	1.09	1.99		
Non-Food	30.24	130.68	130.68	130.67	130.88	132.42	132.79	133.78	133.78	133.83	0.00	-0.01	0.16	1.18	0.28	0.74	0.00	0.03		
Domestic	48.01	136.04	136.08	135.61	135.73	136.60	137.01	138.35	138.91	139.96	0.03	-0.35	0.09	0.64	0.30	0.98	0.40	0.75		
			T	able 9:	Month-	on-Mor	nth Pero	ent Cha	ange in	the CPI	(Impor	t)								
				In	dex (De	cember	2012=10	0)					P	ercent (	Change	(%)				
Group						2018								2	018					
Gloup	Weights	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Food	22.15	140.32	140.34	139.76	139.84	140.35	141.09	141.69	142.50	143.76	0.01	-0.41	0.05	0.36	0.53	0.43	0.57	0.89		
Non-Food	29.84	126.21	126.94	127.30	127.24	127.67	128.60	129.27	129.02	128.29	0.58	0.28	-0.05	0.33	0.73	0.52	-0.19	-0.56		
Import	51.99	132 04	132 48	132.47	132 46	132 92	133 78	134 42	134 60	134 67	0.34	-0.01	0.00	0.35	0.64	0.48	0.13	0.05		

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

**IMPORTED)** 



#### MONTH-TO-MONTH INFLATION RATE

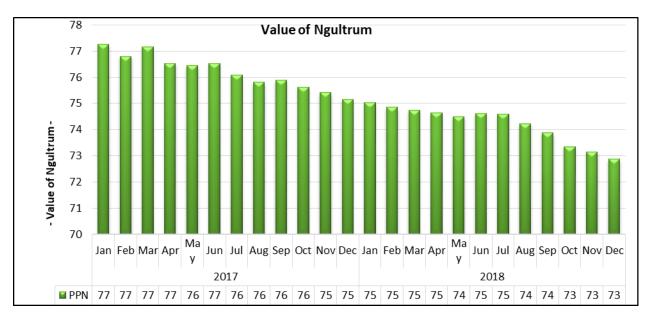
The CPI for December 2018 over previous month of November went up by 0.39% which is 0.13 percentage point higher than November. The increase was mainly contributed by food prices which went up by 1.38% while prices dropped by 0.26% for non-food which is associated with the decrease in prices of fuel (Petrol and diesel).

Local goods and services increased by 0.75% while imported goods went up by 0.05% only. The higher increase for local goods is due to increase in prices of vegetables while the lower rate of 0.05% for imported goods is mainly due to drop in prices of fuel although food prices recorded 0.89% increase.

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







The PPN, as measured by CPI was 73 Ngultrum as of December 2018. This means, Ngultrum 100 in December 2018 is worth only Ngultrum 73 at December 2012 prices. The PPN has decreased by 3.04% in the past 12 months (i.e. from December 2017 to December 2018) due to price increase 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

 $P_i^o$  = Previous Period Price

 $\begin{pmatrix} P_i^t \\ P_I^0 \end{pmatrix} = \text{Price}$ 

= 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 rebased 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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