





STATISTICAL RELEASE

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EXPORT AND IMPORT PRICE INDICES FOR THE QUARTER ENDING DECEMBER, 2020

Background notes

Definition

The Export and Import Price Indices (XMPI) are average measures of price changes of goods exported outside or imported into the country. The XMPI are used in various areas to do analysis such as Terms of Trade (ToT) which is the ratio of Export Price Index (XPI) to the Import Price Index (MPI).

The Export and Import Price Index (XMPI), which are compiled on quarterly bases, covers both exports and imports of merchandise trade. These quarterly specification-based XMPI have been compiled and disseminated since the first quarter of 2013 up to the last quarter 2017 with reference base period being the quarter ending March 2013. The updated XMPI has the fourth quarter of 2017 as the reference base period. The updated weights and the product sample for the XMPI used customs data for the years 2014 to 2016. Price collection for the updated XMPI was carried out during the period October-December 2017. This allowed for the compilation of the XMPI for the fourth quarter of 2017 using the new product and enterprise samples.

Weights and a reference period

The XMPI weights are based on values of imported and exported commodities for the period 2014 to 2016. A top-down approach was taken in the determination of the index structure, composition and the allocation of the weights. The aim was to maximize the indirect representation of un-priced commodities in the index, through a chain of representation. The price reference period is the quarter ending December 2017.

Product Classification

The products are classified according to the United Nations Harmonized Commodity Description and Coding System (HS). The HS is an international nomenclature for the classification of products.

Methodology

Selection of items: In the selection of items, a top - down procedure was applied in three steps. First the major 2 digit HS chapters contributing to the total value of imports in terms of the sum of values for the year 2014 to 2016 were selected for direct inclusion in the 14 chapters (2 digit HS codes) were selected for imports and 12 chapters for exports out of 99 chapters representing 80 percent or more depending on the degree of concentration. Secondly, the process was repeated at 4 digit level of HS; 73 items were selected for imports and 19 items were selected for exports. Finally the procedure was repeated at 8 digit level of the HS by selecting 178 items for imports and 23 items for exports. The result of these procedures was the derivation of the structure and composition of the indices.

The XMPI has incorporated a number of methodological improvements including the use of geometric means for compiling elementary index aggregates, the use of an improved index compilation system, and improved procedures for collecting and processing prices. The Laspeyres index formula was used to compute higher level aggregates for the XMPI. Chart 1 depicts trend of XPI and MPI in the selected quarters.

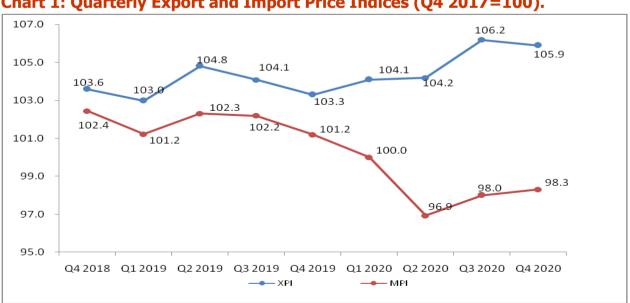


Chart 1: Quarterly Export and Import Price Indices (Q4 2017=100).

Q1=January-March, Q2=April-June, Q3=July-September, Q4=October-December

Export Price Index

Structure of the XPI

The XPI covers 12 chapters out 99 chapters, namely; (i) Fish and crustacean, mollusk and other aquatic invertebrate, (ii) Edible vegetables and certain roots and tubers, (iii) Edible fruits and nuts, peel of citrus fruit or melons, (iv) Coffee, tea, mate and spices, (v) Oil seed, oleagi fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder, (vi) Animal or vegetable fats and oils and their cleavage products; prepared edible fats; animal or vegetable waxes, (vii) Residues & waste from the food industries; prepared animal fodder, (viii) Tobacco and manufactured tobacco substitutes, (ix) Cotton, (x) Wadding, felt & nonwoven; yarns; twine, cordage, etc, (xi) Glass and glassware and (xii) Natural/cultured pearls, precious stones and metals, coin, etc. The sample of twelve chapters constitute 80 percent of total value of exports, aggregated from 2014 to 2016.

Quarterly Export Price Index

The overall export price index during the fourth quarter of 2020 decreased slightly by 0.3 percent to 105.9 compared to 106.2 recorded in the third quarter of 2020. This development was largely attributed by the decrease in world market prices of sisal fibre and yarn; edible fruits and nuts as well as those of glass and glassware. Likewise, when compared to the corresponding quarter of 2019 the export price index increased by 2.5 percent (**Table1**).

Table 1: Quarterly Export Price Indices by Chapter (Q4 2017 = 100)

HS Code	Description	Weight	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	% Change Previous Quarter	% Change the same quarter las year
Overall		100	103.3	104.1	104.2	106.2	105.9	-0.3	2.5
03	Fish & crustacean, mollusc & other aquatic ir	6.2	96.4	94.1	95.2	94.3	95.0	0.7	-1.5
07	Edible vegetables and certain roots and tube	11.4	102.8	106.6	106.7	109.2	109.3	0.1	6.3
08	Edible fruit and nuts; peel of citrus fruit or m	17.4	73.0	72.0	72.0	72.2	70.5	-2.4	-3.4
09	Coffee, tea, mate and spices	4.3	85.5	84.8	86.1	94.6	94.5	-0.1	10.5
12	Oil seed, oleagi fruits; miscell grain, seed, fru	4.2	138.5	138.5	136.3	136.7	136.7	0.0	-1.3
15	Animal/veg fats & oil & their cleavage produ	7.4	107.5	107.5	109.5	109.7	109.7	0.0	2.1
23	Residues & waste from the food indust; prep	6.2	98.1	101.2	99.6	97.6	100.2	2.7	2.1
24	Tobacco and manufactured tobacco substitu	5.9	104.9	106.0	104.1	105.4	105.5	0.1	0.6
52	Cotton	1.0	102.3	102.8	101.3	106.3	107.6	1.2	5.2
56	Wadding, felt & nonwoven; yarns; twine, cor	4.9	108.3	109.1	103.6	103.7	100.1	-3.5	-7.6
70	Glass and glassware	2.2	108.4	107.2	110.1	110.9	108.5	-2.2	0.1
71	Natural/cultured pearls, prec stones & metal	28.9	114.0	119.5	125.8	134.1	133.5	-0.5	17.2

Q1=January-March, Q2=April-June, Q3=July-September, Q4=October-December

Sub indices by Chapter

This section gives detailed analysis on the movements of export price indices by chapter in order to widen the understanding of the sources of changes.

Chapter 03: Fish and crustacean, mollusk and other aquatic invertebrate

The index for "Fish and crustacean, mollusk and other aquatic invertebrate" which account for 6.2 percent of the total weight, increased slightly by 0.7 percent in the fourth quarter of 2020 to 95.0 from 94.3 recorded in the third quarter of 2020. The performance was largely attributed by the increase in the prices of frozen and fresh nile perch fillets. Nonetheless, when compared to the corresponding quarter of 2019 the index decreased by 1.5 percent.

Chapter 07: Edible vegetables and certain roots and tubers

This chapter contributed 11.4 percent of the total weight of the exported commodities and the index for this chapter increased marginally by 0.1 percent to 109.3 in the fourth quarter of 2020 from 109.2 recorded in the previous quarter. The performance was principally attributed by the increase in prices of onions as a result of upward demand pressures from domestic and neighbouring countries. Similarly, when compared to the same quarter in the previous year, the index increased by 6.3 percent.

Chapter 08: Edible fruits and nuts, peel of citrus fruit or melons

The export price index for "Edible fruits and nuts", which accounts for 17.4 percent of the total weight, decreased by 2.4 percent to 70.5 in the fourth quarter of 2020 from 72.2 recorded in the third quarter of 2020. The performance was largely associated by the demand factors of cashew nuts in the global market. Likewise, the index decreased by 3.4 percent when compared to the same quarter of 2019.

Chapter 09: Coffee, tea, mate and spices

This chapter contributed 4.3 percent of the total weight of exported commodities. During the fourth quarter of 2020, the index for "coffee, tea, mate and spices" decreased slightly by 0.1 percent to 94.5 from 94.6 recorded in the third quarter of 2020. The performance was highly associated with the decrease in the prices of coffee, arabica in particular, in the world market due to lower global consumption. However, when compared to the corresponding quarter of last year, the index increased by 10.5 percent.

Chapter 12: Oil seeds and oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder

This chapter accounts for 4.2 percent of the total weight. During the fourth quarter of 2020, the index for "Oil seeds and oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder" remained unchanged at 136.7 as recorded in the previous quarter. When compared to the same quarter in the previous year, the index has decreased by 1.3 percent.

Chapter 15: Animal or vegetable fats and oils and their cleavage products; prepared edible fats; animal or vegetable waxes

The export price index for "Animal or vegetable fats and oils and their cleavage products; prepared edible fats; animal or vegetable waxes", which accounts for 7.4 percent of the total weight, remained unchanged at 109.7 in the fourth quarter of 2020. When compared to the similar quarter of 2019 the index has increased by 2.1 percent.

Chapter 23: Residues & waste from the food industries; prepared animal fodder

The export price index for "Residues & waste from the food industries; prepared animal fodder", which accounts for 6.2 percent of the total weight, increased by 2.7 percent to 100.2 in the fourth quarter of 2020 from 97.6 recorded in the third quarter of 2020. The performance was mainly attributed by the increase in prices of both sunflower and cotton seed cakes due to increased regional demand. Likewise, when compared to the same quarter of 2019 the index has increased by 2.1 percent.

Chapter 24: Tobacco and manufactured tobacco substitutes

This chapter accounts for 5.9 percent of the total weight. During the fourth quarter of 2020, the index has increased marginally by 0.1 percent to 105.5 from 105.4 recorded in the previous quarter. The performance was attributed by slight increase in prices of raw tobacco. Likewise, when compared to the similar quarter in the previous year, the index increased slightly by 0.6 percent.

Chapter 52: Cotton

During the fourth quarter of 2020 the export price index for "Cotton", which accounts for 1.0 percent of the total weight, increased by 1.2 percent to 107.6 compared to 106.3 recorded in the third quarter of 2020. The performance is explained by the increase in world market prices of cotton owing to increased demand as the global economy shows some recovery

from the negative impact of COVID-19. Similarly, when compared with the same quarter in the preceding year the index increased by 5.2 percent.

Chapter 56: Wadding, felt & nonwoven; yarns; twine, cordage, etc

This chapter contributed 4.9 percent of the total weight of exported commodities. During the fourth quarter of 2020 "Wadding, felt & nonwoven; yarns; twine, cordage, etc" decreased by 3.5 percent to 100.1 from 103.7 recorded in the previous quarter. The performance was largely associated by the decrease in the world prices of sisal fibre and yarn. Likewise, when compared to the same quarter in the previous year, the index has decreased by 7.6 percent.

Chapter 70: Glass and glassware

During the fourth quarter of 2020, the export price index for "Glass and glassware", which accounts for 2.2 percent of the total weight has decreased by 2.2 percent to 108.5 from 110.9 recorded in the preceding quarter. The performance was largely attributed by the decrease in prices of empty bottles. However, when compared to the similar quarter in the previous year, the index has increased slightly by 0.1 percent.

Chapter 71: Natural/cultured pearls, precious stones and metals, coin etc

The export price index for "Natural/cultured pearls, precious stones and metals, coin etc", which account for 28.9 percent of the total weight of exported commodities decreased slightly by 0.5 percent to 133.5 in the fourth quarter from 134.1 recorded in the previous quarter. The performance was mainly attributed by moderate decrease in the gold price in the world market owing to strengthening of the US dollar. However, when compared to the same quarter of 2019 the index increased by 17.2 percent.

Import Price Index

Structure of the MPI

The MPI covers 14 chapters out of 99 chapters, namely; (i) Cereals, (ii) Animal fats and oil & their cleavage product, (iii) Mineral fuels, oils and product of their distillation, (iv) Pharmaceutical products, (v) Fertilizers, (vi) Miscellaneous chemical products, (vii) Plastics and articles thereof, (viii) Rubber and articles thereof, (ix) Iron and steel, (x) Articles of iron and steel, (xi) Nuclear reactors, boilers, machinery and machinery appliance, parts, (xii) Electrical machinery equipments parts thereof; sound recorder etc, (xiii) Vehicles other than

railway/transport way roll-stock, parts and accessories and (xiv) Optical, photo, cine, meas, checking, precision, etc. The sampled fourteen chapters constitute 80 percent of total value of imports aggregated from 2014 to 2016.

Quarterly Import Price Index

The overall Import Price Index for the fourth quarter of 2020 increased slightly by 0.3 percent to 98.3 from 98.0 recorded in the third quarter of 2020 mainly due to higher prices for cereals. Nonetheless, when compared to the same quarter of 2019, the index has decreased by 2.9 percent (**Table 2**).

Table 2: Quarterly Import Price Indices by Chapter (Q4 2017= 100)

HS Code	Description	Weight	Q4 2020	Q1 2020	Q2 2020	Q3 2020	Q3 2020	% Change Previous Quarter	% Change same Quarter last year
Overall		100.0	101.2	100.0	96.9	98.0	98.3	0.3	-2.9
10	Cereals	4.1	100.4	106.7	109.9	106.9	110.3	3.2	9.9
15	Animal/veg fats & oil & their cleavage product	4.2	97.9	97.9	98.0	98.2	98.3	0.1	0.4
27	Mineral fuels, oils & product of their distillation	21.7	108.0	104.2	56.0	69.3	68.9	-0.5	-36.2
30	Pharmaceutical products	5.2	103.0	103.0	103.7	103.9	104.6	0.7	1.5
31	Fertilisers	1.8	105.6	102.5	102.4	103.2	103.8	0.6	-1.7
38	Miscellaneous chemical products	2.0	92.2	87.2	90.9	88.8	89.3	0.6	-3.1
39	Plastics and articles thereof	6.2	99.2	95.5	92.2	93.9	96.1	2.3	-3.1
40	Rubber and articles thereof	2.8	97.4	97.0	100.1	103.5	98.3	-5.0	1.0
72	Iron and steel	5.3	89.8	90.5	87.1	84.5	82.6	-2.3	-8.0
73	Articles of iron and steel	4.0	106.0	105.3	104.5	105.4	105.4	0.0	-0.6
84	Nuclear reactors, boilers, mchy & mech applia	15.2	119.7	116.8	116.1	116.0	117.4	1.2	-2.0
85	Electrical mchy equip parts thereof; sound rec	10.9	104.7	105.3	103.6	104.4	107.2	2.7	2.4
87	Vehicles o/t railw/tranw rool-stock, pts & acco	14.4	100.9	98.1	102.0	102.8	103.5	0.7	2.5
90	Optical, photo, cine, meas, checking, pred	2.1	92.4	90.5	90.7	90.9	90.8	-0.1	-1.8

1=January-March, Q2=April-June, Q3=July-September, Q4=October-December

Sub indices by Chapter

This section analyses movements of import price indices for each chapter.

Chapter 10: Cereals

This chapter accounts for 4.1 percent of the total weight. During the fourth quarter of 2020, the import price index for "Cereals" increased by 3.2 percent to 110.3 from 106.9 recorded in the third quarter of 2020. The performance was attributed by increase in prices of wheat in the world market. Likewise, when compared to the same quarter in the previous year the index has increased by 9.9 percent.

Chapter 15: Animal fats and oil and their cleavage product

This chapter contributes 4.2 percent of the total weight of the imported commodities. During the fourth quarter of 2020, the index increased slightly by 0.1 percent to 98.3 from 98.2 recorded in the previous quarter, owing to increase in prices of crude palm oil consistent with the general increase in edible oil prices in global market. Similarly, when compared to the same quarter in the preceding year, the index increased slightly by 0.4 percent.

Chapter 27: Mineral fuels, oils and product of their distillation

During the fourth quarter of 2020, import price index for "Mineral fuels, oils and product of their distillation" which contributes 21.7 percent to the total weight of the imported commodities decreased marginally by 0.5 percent to 68.9 from 69.3 recorded in the third quarter of 2020. The performance was largely attributed by the decrease in prices of diesel throughout the quarter. Likewise, when compared to the similar quarter of 2019 the index has decreased by 36.2 percent.

Chapter 30: Pharmaceutical products

The index for "Pharmaceutical products" which represent about 5.2 percent of the total weight increased slightly by 0.7 percent to 104.6 in the fourth quarter of 2020 from 103.9 recorded in the preceding quarter. Similarly, when compared to the same quarter in the previous year the index increased by 1.5 percent.

Chapter 31: Fertilizers

The index for "Fertilizers" which accounts for 1.8 percent of the total weight of the imported commodities index has increased slightly by 0.6 percent in the fourth quarter of 2020 to 103.8 from 103.2 recorded in the third quarter of 2020, driven by increase in world market prices of fertilizers. However, when compared to the same quarter in the previous year the index has decreased by 1.7 percent.

Chapter 38: Miscellaneous chemical products

The index for "Miscellaneous chemical products" which accounts for 2.0 percent of the total weight increased marginally by 0.6 percent in the fourth quarter of 2020 to 89.3 from 88.8 recorded in the third quarter of 2020, mainly attributed by the increase in prices of

laboratory reagents. However, when compared to the similar quarter last year, the index has decreased by 3.1 percent.

Chapter 39: Plastics and articles thereof

This chapter contributes 6.2 percent to the total weight of imported commodities. The index increased by 2.3 percent to 96.1 in the fourth quarter of 2020 from 93.9 recorded in the previous quarter. The performance was mainly driven by the increase in the prices of high density polyethylene. However, when compared to the corresponding quarter in 2019, the index decreased by 3.1 percent.

Chapter 40: Rubber and articles thereof

In the fourth quarter of 2020, the index for "Rubber and articles thereof" which contributes 2.8 percent to the total weight of imported commodities, decreased by 5.0 percent to 98.3 from 103.5 recorded in the fourth quarter of 2020. The performance was largely attributed by the decrease in prices of tyres for trucks. However, when compared to the same quarter in the previous year the index has increased by 1.0 percent.

Chapter 72: Iron and steel

During the fourth quarter of 2020, the index for "Iron and steel", which accounts for 5.3 percent of the total weight, decreased by 2.3 percent to 82.6 from 84.5 recorded in the third quarter of 2020. This was largely attributed by the decrease in prices of hot rolled steel sheets in coils amid fall in global demand. Likewise, the index decreased by 8.0 percent when compared to the similar quarter of 2019.

Chapter 73: Articles of iron and steel

This chapter contributes 4.0 percent of the total weight. During the fourth quarter of 2020, the index for "Articles of iron and steel" remained unchanged at 105.4 as recorded in the previous quarter. When compared to the same quarter in 2019, the index has decreased by 0.6 percent.

Chapter 84: Nuclear reactors, boilers, machinery and mechanical appliance and parts

The index for "Boilers, machinery and machinery appliance" which accounts for 15.2 percent of total weight of imported commodities increased by 1.2 percent to 117.4 in the fourth quarter of 2020 from 116.0 recorded in the previous quarter. The performance was largely associated by the increase in the prices of refrigerators, pumps, adaptors, unassembled gas turbines and generators. However, when compared with the corresponding quarter of 2019 the index has decreased by 2.0 percent.

Chapter 85: Electrical machinery equipment and parts thereof

The index for "Electrical machinery equipment and parts thereof", which accounts for 10.8 percent of the total weight, increased by 2.7 percent to 107.2 in the fourth quarter of 2020 from 104.4 attained in the previous quarter. The performance was attributed by the increase in solar charge controllers and switches. Likewise, when compared to the same quarter in 2019, the index has increased by 2.4 percent.

Chapter 87: Vehicles other than railway/transport ways roll-stock

The index for "Vehicles other than railway/transport ways roll-stock" which accounts for 14.4 percent of total weight increased marginally by 0.7 percent to 103.5 in the fourth quarter of 2020 from 102.8 recorded in the third quarter of 2020, largely owing to the increase in prices of various brands of motor vehicles. Likewise, when compared to the same quarter in the previous year the index increased by 2.6 percent.

Chapter 90: Optical, photo, cine, meas, checking, precision, etc

This chapter accounts for 2.1 percent of the total weight. During the fourth quarter of 2020, the index decreased slightly by 0.1 percent to 90.8 from 90.9 recorded in the third quarter of 2020, largely attributed by the decrease in prices of medical equipments. Similarly, when compared to the similar quarter last year, the index has decreased by 1.8 percent.

Terms of Trade

The Terms of Trade Index is the ratio of Export Price Index to Import Price Index. Export Price Index was mainly influenced by prices of sisal fibre and yarn, edible fruits and nuts as well as those of glass and glassware, while Imports Price Index was driven by prices of cereals. Overall, during the fourth quarter of 2020, Terms of Trade remained favourable but

slightly decreased by 0.7 points to 107.7 from 108.4 recorded in the third quarter of 2020 (**Table 3**).

Table 3: Quarterly Terms of Trade (Q4 2017 = 100)

Indiana	2019				2020					
Indices	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
EXPI	103	104.8	104.1	103.3	104.1	104.2	106.2	105.9		
MPI	101.2	102.3	102.2	101.2	100	96.9	98.0	98.3		
TOT	101.8	102.4	101.9	102.1	104.1	107.5	108.4	107.7		

Note;

Q1=January-March, Q2=April-June, Q3=July-September, Q4=October-December

XPI = Export Price Index

MPI = Import Price Index

ToT = Terms of Trade

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