



STATISTICAL RELEASE

In reply please quote:

Our ref: NBS/S.40/21/488

Date: December 2023.

EXPORT AND IMPORT PRICE INDICES FOR THE QUARTER ENDING JUNE 2023

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 Indices, which are compiled on a quarterly basis, cover both exports and imports of merchandise trade. These quarterly specifications based XMPI have been compiled and disseminated since the first quarter of 2013 up to the last quarter of 2022 with reference base period being the quarter ending December 2017. The updated XMPI has the first quarter of 2023 as the reference base period. The updated weights and the product sample for the XMPI used customs data for the years 2019 to 2021. Price collection for the updated XMPI was carried out during the period November-December 2023. This allowed for the compilation of the XMPI for the first quarter of 2023 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 2019 to 2021. 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 March 2023.

Product Classification

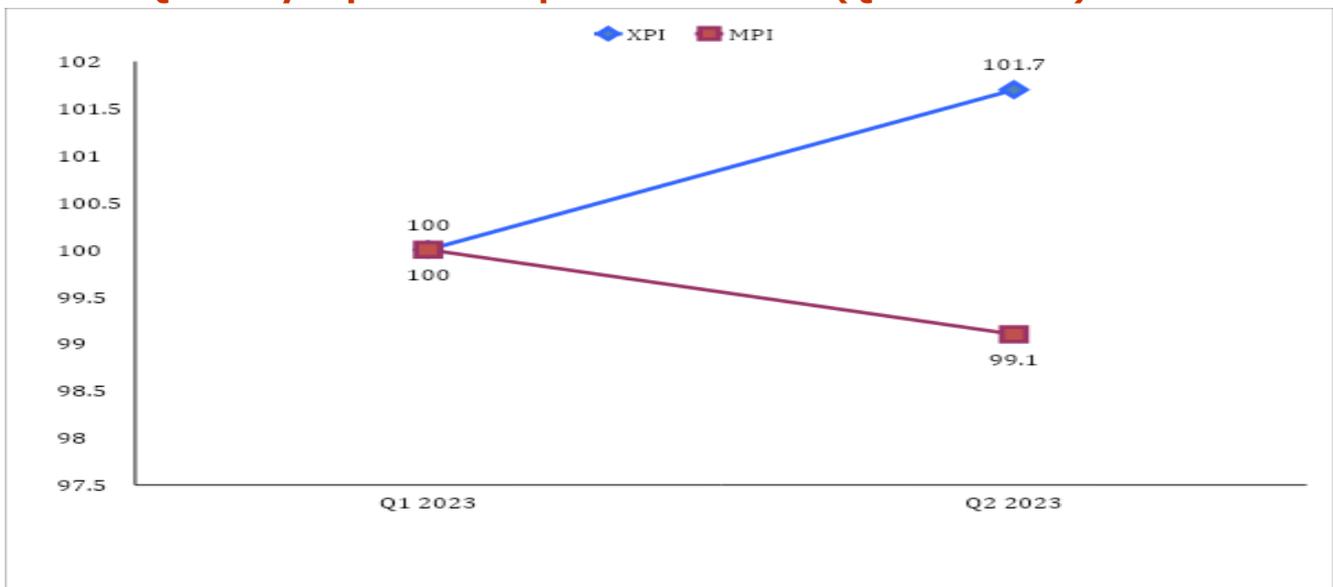
The products are classified according to the United Nations Harmonized Commodity Description and Coding System (HS). The HS is an international nomenclature for the classification of products.

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 2019 to 2021 were selected for direct inclusion in the indices. As a result, 16 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; 76 items were selected for imports and 19 items were selected for exports. Finally, the procedure was repeated at the 8-digit level of the HS by selecting 165 items for imports and 25 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 trends of XPI and MPI in the selected quarters.

Chart 1: Quarterly Export and Import Price Indices (Q1 2023=100)



Note: 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 of 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) Cereals (vi) Oil seed, oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder, (vii) Tobacco and manufactured tobacco substitutes, (viii) Ores, slag and ash, (ix) Salt; sulphur; earth & stone; plastering mat; lime & cement (xi) Cotton, (xii) Wadding, felt & nonwoven; yarns; twine, cordage, etc and (xiii) Natural/cultured pearls, precious stones and metals, coin, etc. The sample of twelve chapters constitutes 80 percent of the total value of exports, aggregated from 2019 to 2021.

Quarterly Export Price Index

The overall Export Price Index during the second quarter of 2023 increased by 1.7 percent to 101.7 from 100.0 recorded in the previous quarter. This development was largely attributed to the increase in prices of edible fruits and nuts as well as those of tobacco (**Table 1**).

Table 1: Quarterly Export Price Indices by Chapter (Q1 2023= 100)

HS Code	Description	Weight	Q1	Q2	% Change Previous Quarter
			2023	2023	
		Overall			
		100.0	100.0	101.7	1.7
03	Fish & crustacean, mollusk & other	3.4	100.0	101.9	1.9
07	Edible vegetables and certain roots and	4.8	100.0	113.0	13.0
08	Edible fruit and nuts; peel of citrus fruit or	6.6	100.0	98.4	-1.6
09	Coffee, tea, mate and spices	4.8	100.0	97.9	-2.1
10	Cereals	4.7	100.0	101.2	1.2
12	Oil seed, oleaginous fruits; miscell grain, seed,	4.7	100.0	102.2	2.2
24	Tobacco and manufactured tobacco	3.5	100.0	107.1	7.1
25	Salt; sulphur; earth & stone; plastering mat;	2.2	100.0	102.4	2.4
26	Ores, slag and ash	3.6	100.0	99.7	-0.3
52	Cotton	2.0	100.0	99.1	-0.9
56	Wadding, felt & nonwoven; yarns; twine,	0.6	100.0	92.8	-7.2
71	Natural/cultured pearls, prec stones &	59.0	100.0	105.2	5.2

Note: 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:

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

The index for "Fish and crustacean, mollusk and other aquatic invertebrates" which accounts for 3.4 percent of the total weight, increased by 1.9 percent to 101.9 in the second quarter of 2023 from 100.0 recorded in the first quarter of 2023. The performance was largely associated to the increase in prices of Nile perch in the world market, as they continue to be a popular product on European the market.

Chapter 07: Edible vegetables and certain roots and tubers

This chapter contributed 4.8 percent of the total weight of the exported commodities. During the second quarter of 2023, the index increased by 13.0 percent to 113.0 from 100.0 recorded in the first quarter of 2023. The performance was largely associated to the increase in prices of pigeon peas, due to supply shortages in India, the major producer in the World.

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

During the second quarter of 2023, the export price index for "Edible fruits and nuts", which accounts for 6.6 percent of the total weight, decreased by 1.6 percent to 98.4 from 100.0 recorded in the previous quarter. The performance was largely associated with the decrease in prices of cashew nuts in the world market attributed by fall in global demand.

Chapter 09: Coffee, tea, mate and spices

This chapter contributed 4.8 percent of the total weight of exported commodities. During the second quarter of 2023, the index for "coffee, tea, mate and spices" decreased by 2.1 percent to 97.9 from 100.0 recorded in the previous quarter. The performance was largely attributed to a decrease in tea prices in the world market owing to slowing demand in key tea consumption regions.

Chapter 10: Cereals

The export price index for "cereal" accounts for 4.7 percent of the total weight for exports. During the second quarter of 2023, the index increased by 1.2 percent to 101.2 from 100.0 recorded in the preceding quarter. The performance was largely attributed by the increase in the price of rice in the world market, associated with increased demand.

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

This chapter accounts for 4.7 percent of the total weight. During the second quarter of 2023, the index for "Oil seeds and oleaginous fruits; miscellaneous grains, seeds and fruit; industrial or medicinal plants; straw and fodder" increased by 2.2 percent to 102.2 from 100.0 recorded in the previous quarter. The performance was largely associated with the increase in the price of sesamum seeds in the world market due to high demand from Asian countries.

Chapter 24: Tobacco and manufactured tobacco substitutes

This chapter accounts for 3.5 percent of the total weight. During the second quarter of 2023, the index increased by 7.1 percent to 107.1 from 100.0 recorded in the previous quarter. The performance was largely associated with the increase in the prices of manufactured tobacco in the world market.

Chapter 25: Salt; sulphur; earth & stone; plastering mat; lime & cement

The export price index for "Salt; sulphur; earth & stone; plastering mat; lime & cement", accounting for 2.2 percent of the total weight, increased by 2.4 percent to 102.4 in the second quarter of 2023 from 100.0 recorded in the previous quarter. The performance was largely associated with the increase in prices of cement in the world market.

Chapter 26: Ores, slag and ash

The export price index for "Ores, slag and ash", which accounts for 3.6 percent of the total weight, decreased slightly by 0.3 percent to 99.7 in the second quarter of 2023 from 100.0 recorded in the preceding quarter.

Chapter 52: Cotton

During the second quarter of 2023, the export price index for "Cotton", which accounts for 2.0 percent of the total weight, decreased marginally by 0.9 percent to 99.1 compared to 100.0 in the first quarter of 2023, largely associated with a decrease in prices in global consumption.

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

The chapter contributes 0.6 percent of the total weight of exported commodities. During the second quarter of 2023, the index decreased by 7.2 percent to 92.8 from 100.0 recorded in

the previous quarter. The performance was largely associated with the decrease in prices of rope and cables.

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 accounts for 59.0 percent of the total weight of exported commodities, increased by 5.2 percent to 105.2 in the second quarter of 2023 from 100.0 recorded in the preceding quarter. The performance was largely associated with the increase in the world-market prices of gold due to increasing global uncertainty.

Import Price Index

Structure of the MPI

The MPI covers 16 chapters out of 99 chapters, namely; (i) Cereals, (ii) Animal fats and oil & their cleavage product, (iii) Sugars and sugar confectionery (iv) Mineral fuels, oils and product of their distillation, (v) Pharmaceutical products, (vi) Fertilisers, (vii) Miscellaneous chemical products, (viii) Plastics and articles thereof, (ix) Rubber and articles thereof, (x) Other made up textile articles; sets; worn clothing etc (xi) Iron and steel, (xii) Articles of iron and steel, (xiii) Nuclear reactors, boilers, machinery and machinery appliance, parts, (xiv) Electrical machinery equipment parts thereof; sound recorder etc, (xv) Vehicles other than railway/transport way roll-stock, parts and accessories and (xvi) Optical, photo, cine, meas, checking, precision, etc. The sampled fourteen chapters constitute 80 percent of total value of imports aggregated from 2019 to 2021.

Quarterly Import Price Index

The overall Import Price Index for the second quarter of 2023 decreased slightly by -0.9 percent to 99.1 from 100.0 recorded in the first quarter of 2023. The decrease was mainly due to a fall in world market prices of crude oil and petroleum products. (**Table 2**).

Table 2: Quarterly Import Price Indices by Chapter (Q1 2023= 100)

HS Code	Description	Weight	Q1 2023	Q2 2023	% Change Previous Quarter
			Overall		
		100.0	100.0	99.1	-0.9
10	Cereals	3.2	100.0	94.0	-6.0
15	Animal/veg fats & oil & their cleavage products; etc	2.7	100.0	100.2	0.2
17	Sugars and sugar confectionery	1.6	100.0	101.1	1.1
27	Mineral fuels, oils & product of their distillation; etc	23.8	100.0	89.7	-10.3
30	Pharmaceutical products	5.3	100.0	100.9	0.9
31	Fertilisers	2.4	100.0	95.8	-4.2
38	Miscellaneous chemical products	3.3	100.0	96.3	-3.7
39	Plastics and articles thereof	7.1	100.0	100.2	0.2
40	Rubber and articles thereof	2.5	100.0	97.1	-2.9
63	Other made up textile articles; sets; worn clothing etc	1.9	100.0	106.6	6.6
72	Iron and steel	7.0	100.0	101.6	1.6
73	Articles of iron and steel	4.4	100.0	97.2	-2.8
84	Nuclear reactors, boilers, mchy & mech appliance; parts	13.6	100.0	103.5	3.5
85	Electrical mchy equip parts thereof; sound recorder etc	8.3	100.0	107.0	7.0
87	Vehicles o/t railw/tranw rool-stock, pts & accessories	10.8	100.0	95.5	-4.5
90	Optical, photo, cine, meas, checking, precision, etc	2.1	100.0	98.5	-1.5

Note: Q1=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 3.2 percent of the total weight. During the Second quarter of 2023, the import price index for “Cereals” decreased slightly by 6.0 percent to 100.0 from 94.0 recorded in the base quarter. The performance was largely associated with the decrease in prices of wheat in the world market due to increase in global supply of wheat and other granular commodities globally, on the back of the black sea export deal between Russia and Ukraine.

Chapter 15: Animal fats and oil and their cleavage product

This chapter contributes 2.7 percent of the total weight of the imported commodities. During the second quarter of 2023, the index increased slightly by 0.2 percent to 100.2 from 100.0 that was recorded in the base quarter. The performance was associated with a fall in supply of edible oils accompanied with low production.

Chapter 17: Sugars and sugar confectionery

This chapter contributes 1.6 percent of the total weight of the imported commodities. During the third quarter of 2023, the index increased by 1.1 percent to 101.1 from 100.0 that was

recorded in the previous quarter. The performance was associated with the increase in prices of sugar in the world market as a result of declining production in India, Thailand and China.

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

During the second quarter of 2023, import price index for “Mineral fuels, oils and product of their distillation” which contributes 23.8 percent to the total weight of the imported commodities, decreased by 10.3 percent to 89.7 from 100.0 recorded in the first quarter of 2023. The decline was attributed to a weaker demand on account of a stronger US dollar associated with increase in interest rates.

Chapter 30: Pharmaceutical products

The index for “Pharmaceutical products”, which represents about 5.3 percent of the total weight, increased slightly by 0.9 percent to 100.9 in the second quarter of 2023 from 100.0 recorded in the previous quarter.

Chapter 31: Fertilisers

The index for “Fertilisers”, which accounts for 2.4 percent of the total weight of the imported commodities, decreased by 4.2 percent, from 100.0 recorded in the previous quarter to 95.8 in the second quarter of 2023. The decrease is associated with a fall in raw material prices particularly oil and gas prices—vital inputs to fertiliser production.

Chapter 38: Miscellaneous chemical products

The index for “Miscellaneous chemical products” which accounts for 3.3 percent of the total weight, fell by 3.7 percent to 96.3 in the second quarter of 2023 from 100.0 recorded in the first quarter. The decrease was prompted by a reduction in production costs.

Chapter 39: Plastics and articles thereof

In the second quarter of 2023, the index for “Plastic and articles thereof” which contributes 7.1 percent to the total weight of imported commodities slightly increased by 0.2 percent to 100.2 from 100.0 recorded in the preceding quarter.

Chapter 40: Rubber and articles thereof

This chapter contributes 2.5 percent to the total weight of imported commodities. During the second quarter of 2023, the index decreased by 2.9 percent to 97.1 from 100.0 recorded in the first quarter of 2023. The performance was associated with the decline of prices of tires for passenger cars in the world market.

Chapter 63: Other Made up Textile Articles; Sets; worn Clothing etc

In the second quarter of 2023, the index for "Other Made up Textile Articles; Sets; worn Clothing etc" which contributes 1.9 percent to the total weight of imported commodities increased by 6.6 percent to 106.6 from 100.0 recorded in the preceding quarter. The performance was associated with the increase in the cost of production (raw material).

Chapter 72: Iron and steel

During the second quarter of 2023, the index for "Iron and steel", which accounts for 7.0 percent of the total weight, increased by 1.6 percent to 101.6 from 100.0 recorded in the first quarter of 2023. The performance was associated with the increase in prices of iron in the world market as a result of short-term reduction in global supply.

Chapter 73: Articles of iron and steel

This chapter contributes 4.4 percent of the total weight. In the second quarter of 2023, the index for "Articles of iron and steel" decreased by 2.8 percent to 97.2 from 100.0 recorded in the preceding quarter. The change was driven by the decrease of prices of articles of iron and steel in the world market.

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

The chapter accounts for 13.6 percent of the total weight of imported commodities. During the second quarter of 2023, the index for this chapter increased by 3.5 percent to 103.5 from 100.0 recorded in the preceding quarter. This performance was attributed by the cost of production due to high cost of raw materials.

Chapter 85: Electrical machinery equipment and parts thereof

The index for "Electrical machinery equipment and parts thereof", which accounts for 8.3 percent of the total weight, increased by 7.0 percent to 107.0 in the second quarter of 2023 from 100.0 recorded in the previous quarter. The performance was attributed to increase in prices of electric machinery equipment in the world market.

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

The index for “vehicles other than railway/transport ways roll-stock” which accounts for 10.8 percent of total weight, decreased by 4.5 percent to 95.5 in the second quarter of 2023 from 100.0 recorded in the previous quarter. The performance was attributed to the decrease in prices of tractors.

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

This chapter accounts for 2.1 percent of the total weight. During the second quarter of 2023, the index decreased by 1.5 percent to 98.5 from 100.0 recorded in the previous, the rebasing quarter. The performance was attributed to the decrease in prices of needles.

Terms of Trade

The Terms of Trade Index is the ratio of Export Price Index to Import Price Index. The Exports Price Index was mostly influenced by prices of edible vegetables and tobacco while the Imports Price Index was driven by prices of crude oil and petroleum products. Overall, during the second quarter of 2023, Terms of Trade remained favourable, increasing by 2.6 points to 102.4 from 100.0 recorded in the first quarter of 2023 (**Table 3**). This implies that for every unit of goods exported, the country can obtain more units of imports.

Table 3: Quarterly Terms of Trade (Q1 2023 = 100)

Indices	2023	
	Q1	Q2
EXPI	100.0	101.7
MPI	100.0	99.1
TOT	100.0	102.6

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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