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وزارة التخطيط - الجهاز المركزي للإحصاء

CSO

Central Statistical Organization IRAQ

Index Numbers of Manufacturing Industries for 2018

Index Numbers Department

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Contents

Subject	Page No.
Introduction	1
Methodology	5 -1
Trends of index numbers prices for manufacturing industries	6
Index Numbers Trends	7

Detailed tables

Table	Page No.
Table. (1) Divisions ,weights ,and number of industrial products items and inputs included and number of the large industrial establishments	4
Table. (2) Output Price Indices by Manufacturing Industries Divisions of 2018 and the Annual Change Rates	8
Table. (3) Contribution Rates to the Annual Change Rate for the General Index Number of Output Prices fo 2018	10
Table. (4) Input Price Indices by Manufacturing Industries Divisions of 2018 and the Annual Change Rates	11
Table. (5) Contribution Rates to the Annual Change Rate for the General Index Number of Input Prices of 2018	13
Table. (6) Industrial Production Indices by Manufacturing Industries Divisions for 2018 and the Annual Change Rates	14
Table. (7) Contribution Rates to the Annual Change Rate of Industrial Production General Index Number of 2018	16
Table. (8) Output Price Indices by Manufacturing Industries Divisions for the Four Quarters 2018 and Annual Averages	17
Table . (9) Output Price Indices by Manufacturing Industries Divisions for the Period (2015-2018)	18
Table. (10) Input Price Indices by Manufacturing Industries Divisions for the Four Quarters of 2018 and the Annual Averages	19
Table. (11) Input Price Indices by Manufacturing Industries Divisions for the Period (2015-2018)	20
Table. (12) Industrial Production Indices by Manufacturing Industries Divisions for the Four Quarters of 2018 and the Annual Averages	21
Table. (13) Industrial Production Indices by Manufacturing Industries Divisions for the Period (2015-2018)	22
Table. (14) Output Price Indices for the Years (1999-2018)	23
Table. (15) Input Price Indices for the years (1999-2018)	23
Table. (16) Industrial Production Indices for the Period (1980-2018)	25

Diagrams

Figure	Page No.
Figure. (1) Output Price Indices by Manufacturing Industries Divisions of 2017 and 2018	9
Figure. (2) Input Price Indices by Manufacturing Industries Divisions of 2017 and 2018	12
Figure. (3) Industrial Production Indices by Manufacturing Industries Divisions of 2017 and 2018	15
Figure. (4) Output Price Indices for the Years (1999-2018)	24
Figure. (5) Input Price Indices for the Years (1999-2018)	24
Figure. (6) Industrial Production Indices for the Period (1980-2018) ، (2012 =100)	26

Introduction

Index number for manufacturing (includes indices of input and output and IIP) is one of the most important statistical measures which helps to know inflation of goods produced locally, at this juncture, base year 2012 has updated by index numbers department instead of 2007 as it considered a modern year and this will help to keep a close eyes on industrial products size and know its trends. It is used to estimate national account indicators (Gross domestic product (GDP), (GDP) per capita government and private expenditure, gross fixed capital formation and exports) with fixed prices as well as other uses.

In view of this and within the tireless efforts of CSO in sorted out these indices for different economic activities, index numbers department has prepared this report on index number of products quantities and inputs and outputs prices in manufacturing for large industrial establishments for quarter 2018 with base year 2012.

Methodology

1. Base year

   Input and output prices in 2012 have been used as a base year to calculate the index numbers of output and input for manufacturing industry.

   As well as products quantities in 2012 have been also used to calculate index number for manufacturing industry.

2. Commodity basket

   Products sample of inputs and outputs price indices has been selected by depending on the relative importance of industrial products where all products mentioned in the quarterly index number questionnaire of manufacturing industries were chosen by excluding products that are of a relative importance near to zero, where outputs sample size was (263) industrial product of (333) industrial product distributed on (18) divisions by ISIC4 after excluding one division for their low relative importance . The total value of these chosen products was (98.9%) of the total value of production in manufacturing industries sector.

   As for inputs sample size, it was (342) industrial input (production staff) distributed on (18) divisions of ISIC4, the total value of these selected inputs was (86.6%) of all production staff in manufacturing industries total value.

   Survey included all large industrial establishments which amounted to (600) establishments, about (76) public establishments & (524) industrial establishments in private and mixed sectors.

3. Weights

   Input and output prices

   Production value in manufacturing industries by divisions (second distribution for industry) that had been taken from industrial statistics directorate for 2012 was adapted to account the relative importance of a division (industry weight) as set forth below:

$$\text{relative importance for division (industry weight)} = \frac{\text{production value for division}}{\text{total of production value in manufacturing industry}} \times 100 \ldots\ldots (1)$$

These weights are used to calculate general index number of inputs and outputs prices, while weights of selected industrial products (or inputs) within each division was calculated according to the relative importance of production value (or using) of product (product or industrial input) to the total production value (or using) of the division that product is related to multiplied by the relative importance of division production (industry weight) as set forth below:

$$\text{Industrial product weight} = \frac{\text{value of product}}{\text{total of division production value}} \times \text{industry weight} \ldots\ldots\ldots (2)$$

$$\text{Industrial inputs weight} = \frac{\text{input value}}{\text{total of division production value}} \times \text{industry weight} \ldots\ldots\ldots\ldots\ldots (3)$$

These weights are used in calculating inputs and outputs price indices of manufacturing industry divisions.

– Product quantities

Production value in manufacturing industries by divisions (second distribution for industry) that had been taken from industrial statistics directorate for 2012 was adapted to account the relative importance of a division (industry weight) as set forth below:

$$\text{relative importance for division (industry weight)} = \frac{\text{production value for division}}{\text{total of production value in manufacturing industry}} \times 100 \ldots\ldots\ldots\ldots\ldots (4)$$

These weights are used to calculate general index number of industrial production, production value in each of food-stuff industry, beverages, refined petroleum products industry and other non-metallic mineral products industry was at a rate of (74.9%) of the total production value in manufacturing industries sector.

While weights selected of industrial products industry within each division were calculated by the relative importance base of production value of the product to the total division production that product belongs to multiplied by the relative importance of division production (industry weight) as set forth below:

$$\text{Industrial product weight} = \frac{\text{value of product}}{\text{total of division production value}} \times \text{industry weight} \ldots\ldots\ldots (5)$$

These weights are used in calculating industrial production indices by manufacturing industries divisions.

4. Calculation formula

Laspeyres, prices formula which depends on weights of the base year 2012 has been used in calculating index number in manufacturing industries, as set forth below:

$$I_P = \frac{\sum \frac{P_1}{P_0} \times W}{\sum W} \times 100 \ldots\ldots\ldots\ldots (6)$$

Where:

IP= index number of industrial production prices

P1= price average in current quarter

P0= price average in 2012

W= weight

Index numbers prices are calculated by divisions then these numbers will be adapted with weights in calculating general index number in the very quarter of the year.
Laspeyres, formula which depends 2012 base year weights has been used in calculating industrial production in manufacturing industries, as set forth below:

$$I_Q = \frac{\sum \frac{Q_1}{Q_0} \times W}{\sum W} \times 100 \ldots\ldots\ldots\ldots (7)$$

Where:
IQ= index number for industrial production
Q1= production in current year
Q0= production in 2012
W= weight

Industrial production index numbers are being calculated by divisions then these numbers will be adapted with weights in calculating general index number in the very quarter.

5. Source of Data

Calculating index numbers prices of inputs and outputs prices in the large industrial establishments had been depended on data in the quarterly questionnaire of indices by manufacturing industries in the large industrial establishments which is provided by Industrial Statistics Directorate, these data represent (12) governorates excluding Industrial realm in Kurdistan region also data do not include Nineveh, Salah al-Deen, Al-Anbar and Kirkuk due to the deterioration in security situation.

6. Product classification

International Standardized Industrial Classification ISIC4 was adapted to classify manufacturing industry activity to (18) divisions (2-digits) and after excluding one division (tobacco products), because of their low relative importance that included industrial products until (7-digits).

Table below shows divisions and their weights, number of products, inputs items and number of large industrial establishments

Divisions, weights, and number of industrial products items and inputs included and number of the large industrial establishments Table. (1)

code	Division	Weight	number of establishments	number of input Items	number of output items
10	Food-Stuff and	7.565	132	60	34
11	Beverages	6.393	13	5	2
13	Textiles	0.624	6	15	18
14	Clothes, fur preparing and coloring	0.209	1	10	15
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	1	5	5
17	Paper and paper products	0.079	1	6	3
18	Printing, publishing and copying recorded News media	0.322	9	15	16
19	Refined petroleum products	42.161	27	16	14
20	Chemical products	6.050	10	76	43
22	Rubber and Plastic products	0.642	9	11	12
23	Nonmetallic minerals products (Other)	23.56	372	39	36
25	Compound minerals products excluding machinery and equipments	2.092	2	37	13
26	Radio, TV and communications equipments	4.983	1	1	19
27	Apparatus and appliances Non - classified elsewhere	0.070	9	11	5
28	Electric equipments & devices Non - classified elsewhere	1.514	2	20	13
29	Engine vehicles and trailer & half trailer vehicles	3.512	2	3	5
30	Other transportation equipments	0.052	1	2	2
31	Furniture and manufactured products Non- classified elsewhere	0.061	2	10	8
General Index Number		100	600	342	263

7. Contribution rates

It represents the contribution of each division in manufacturing industries in annual and quarterly change rate.

Contribution rates in quarterly (annual) change rate of the general index number are calculated as in the equation below:

$$\mathbf{CR}_{i} = \frac{\mathbf{IQ_{i1} - IQ_{i0}}}{\mathbf{IQ_0}} \times \mathbf{W_i} \left(\mathbf{i = 1, 2 \ldots 18} \right)$$

CR_i: contribution rate of division *i* in the quarterly change rate (annual) of the general index number

IQ_{i1}: index number of division *i* in the current quarter (year)

IQ_{i0}: general index number in the previous quarter (year)

IQ_0: General index number in the previous quarter (year)

W_i: relative importance for division (weight)

While contribution rate in quarterly (annual) change rate of the general index number (percentage) is being calculated as in the below equation:

$$\mathbf{CR_i}\ (\%) = \frac{\mathbf{CR_i}}{\mathbf{CR}} \times \mathbf{100} \left(\mathbf{i = 1, 2 \ldots 18} \right)$$

CRi: contribution rate of division i in quarterly (annual) change rate of the general index number
CR: quarterly (annual) change rate for general index number

Price Index Numbers Trends in Manufacturing Industries

Outputs price indices in manufacturing industries for 2018 has amounted to (169.4%) by 2012 as a base year registering an increase of (0.9%) as compared with 2017 which reaches to (167.9%) as a result of the increase in index numbers for each of food - stuff , beverages, refined oil products, chemical products and especially other non-minerals products at the rates of (0.8%), (0.8%) , (1.0%) , (0.9%) and (0.9%) respectively as these industries are of high weights (7.565%), (6.393%), (42.161%), (6.050%), (23.560%) respectively , in addition to index numbers increase in all other divisions despite their low relative importance as in table (2) .

* Also in table number (3) the highest contribution rate in the annual change rate of outputs general index number was (52.0%) in oil refined products then comes non-minerals products at a rate of (22.5%) then food-stuff and division at a rate of (7.8%) and finally Beverages and division at a rate of (6.6%) while contribution rates for all other divisions are less.

for inputs prices in manufacturing industries, index number approached to (167.2%) for 2018 with 2012 as a base year, registering an increase of (0.7%) as compared with 2017 which was at a rate of (166.0%) as a result of index numbers increase at each of food - stuff , beverages, refined oil products, chemical products and especially other non-minerals products at the rates of (0.9%), (0.6%), (0.8%) , (0.9%) , (0.9%) respectively as these products are of high weights in addition to the increase in index numbers prices in all other divisions as compared with 2017 as in table (4) .

* In table number (5) the highest contribution rate in the annual change rate of inputs price indices in oil refined products at a rate of (46.4%) then non-minerals products at a rate of (25.9%) then food-stuff at a rate of (8.3%) and finally Chemical products division at a rate of (6.1%) while contribution rates for all other divisions are less.

Index Numbers Trends

* In table number (6) , the industrial production general index number of 2018 was (162.6%) with 2012 as a base year increasing at a rate of (0.8%) as compared with 2017 index number which amounted to (161.3%) , the increase is basically due to indices increase for each of food - stuff , beverages, refined petroleum products division, chemical products and other nonmetallic minerals products at the rates of (0.8%), (0.5%), (1.0%),(0.9%) and (1.1%) respectively as they are of a high relative importance which amounted to (7.565%), (6.393%), (42.161%), (6.050) , (23.560) respectively , in addition to index numbers increase in all other divisions and in fluctuated rates despite their low relative importance where Furniture and manufactured products Non- classified elsewhere division registered an increase of (0.9%) while both Clothes, fur preparing and coloring division an increase of (0.7%) All other divisions registered less increase rate.

In table number (7), refined petroleum products division registered the highest contribution rate in the annual change rate of the general index number which was (47.8%) then comes the nonmetallic minerals products division at a contribution rate of (28.3%) then Beverages and beverages division at a rate of (6.7%) and finally food-stuff division at a rate of (5.9%) and contribution rates were less than that in all other divisions.

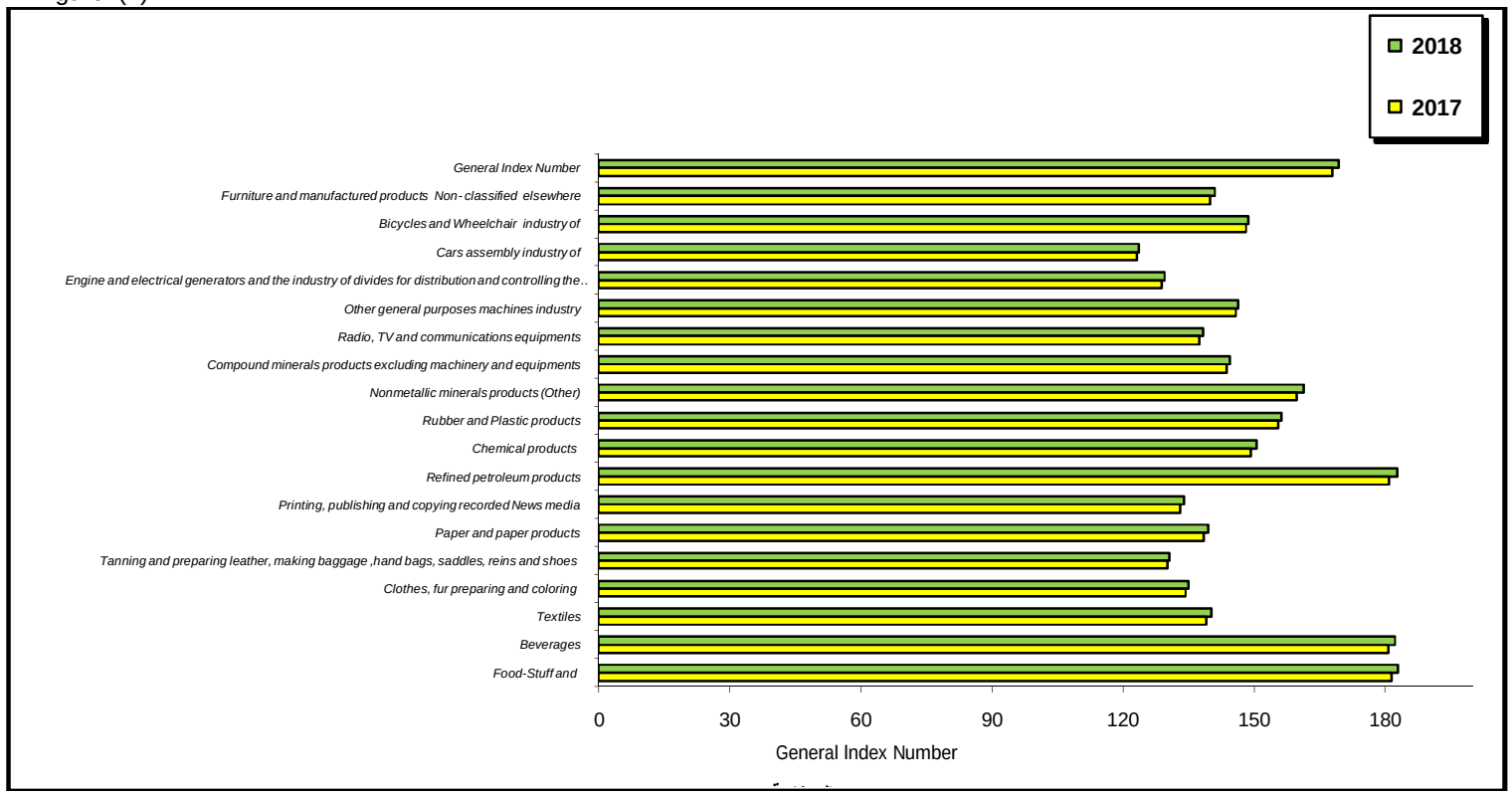
Output Price Indices by Manufacturing Industries Divisions of 2018 and the Annual and Change Rates

Table. (2) (100=2012)

code	Division	Weight	index number Year 2017	index number Year 2018	Annual change Rate %
10	Food-Stuff	7.565	181.5	183.0	0.8
11	Beverages	6.393	180.8	182.3	0.8
13	Textiles	0.624	139.2	140.2	0.7
14	Clothes, fur preparing and coloring	0.209	134.4	135.1	0.5
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	130.3	130.7	0.3
17	Paper and paper products	0.079	138.5	139.5	0.7
18	Printing, publishing and copying recorded News media	0.322	133.1	134.0	0.7
19	Refined petroleum products	42.161	181.0	182.8	1.0
20	Chemical products	6.050	149.3	150.6	0.9
22	Rubber and Plastic products	0.642	155.6	156.3	0.4
23	Nonmetallic minerals products (Other)	23.56	159.9	161.3	0.9
25	Compound minerals products excluding machinery and equipments	2.092	143.8	144.5	0.5
26	Radio, TV and communications equipments	0.070	137.5	138.3	0.6
28	Other general purposes machines industry	4.983	145.9	146.4	0.3
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	128.9	129.6	0.5
29	Cars assembly industry of	3.512	123.2	123.7	0.4
30	Bicycles and Wheelchair industry of	0.052	148.2	148.8	0.4
31	Furniture and manufactured products Non- classified elsewhere	0.061	140.0	141.1	0.8
General Index Number		100	167.9	169.4	0.9

Output Price Indices by Manufacturing Industries Divisions of 2017 and 2018

Figure. (1)



Contribution Rates to the Annual Change Rate for the General Index Number of Output Prices of 2018

Table. (3)

code	Division	Weight	Annual change Rate %	Contribution to annual index change Rate	Contribution to annual index change Rate %
10	Food-Stuff	7.565	0.8	0.068	7.8
11	Beverages	6.393	0.8	0.057	6.6
13	Textiles	0.624	0.7	0.004	0.5
14	Clothes, fur preparing and coloring	0.209	0.5	0.001	0.1
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	0.3	0.000	0.0
17	Paper and paper products	0.079	0.7	0.000	0.0
18	Printing, publishing and copying recorded News media	0.322	0.7	0.002	0.2
19	Refined petroleum products	42.161	1.0	0.452	52.0
20	Chemical products	6.050	0.9	0.047	5.4
22	Rubber and Plastic products	0.642	0.4	0.003	0.3
23	Nonmetallic minerals products (Other)	23.56	0.9	0.196	22.5
25	Compound minerals products excluding machinery and equipments	2.092	0.5	0.009	1.0
26	Radio, TV and communications equipments	0.070	0.6	0.000	0.0
28	Other general purposes machines industry	4.983	0.3	0.015	1.7
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	0.5	0.006	0.7
29	Cars assembly industry of	3.512	0.4	0.010	1.1
30	Bicycles and Wheelchair industry of	0.052	0.4	0.000	0.0
31	Furniture and manufactured products Non- classified elsewhere	0.061	0.8	0.000	0.0
General Index Number		100	0.9	0.870	100

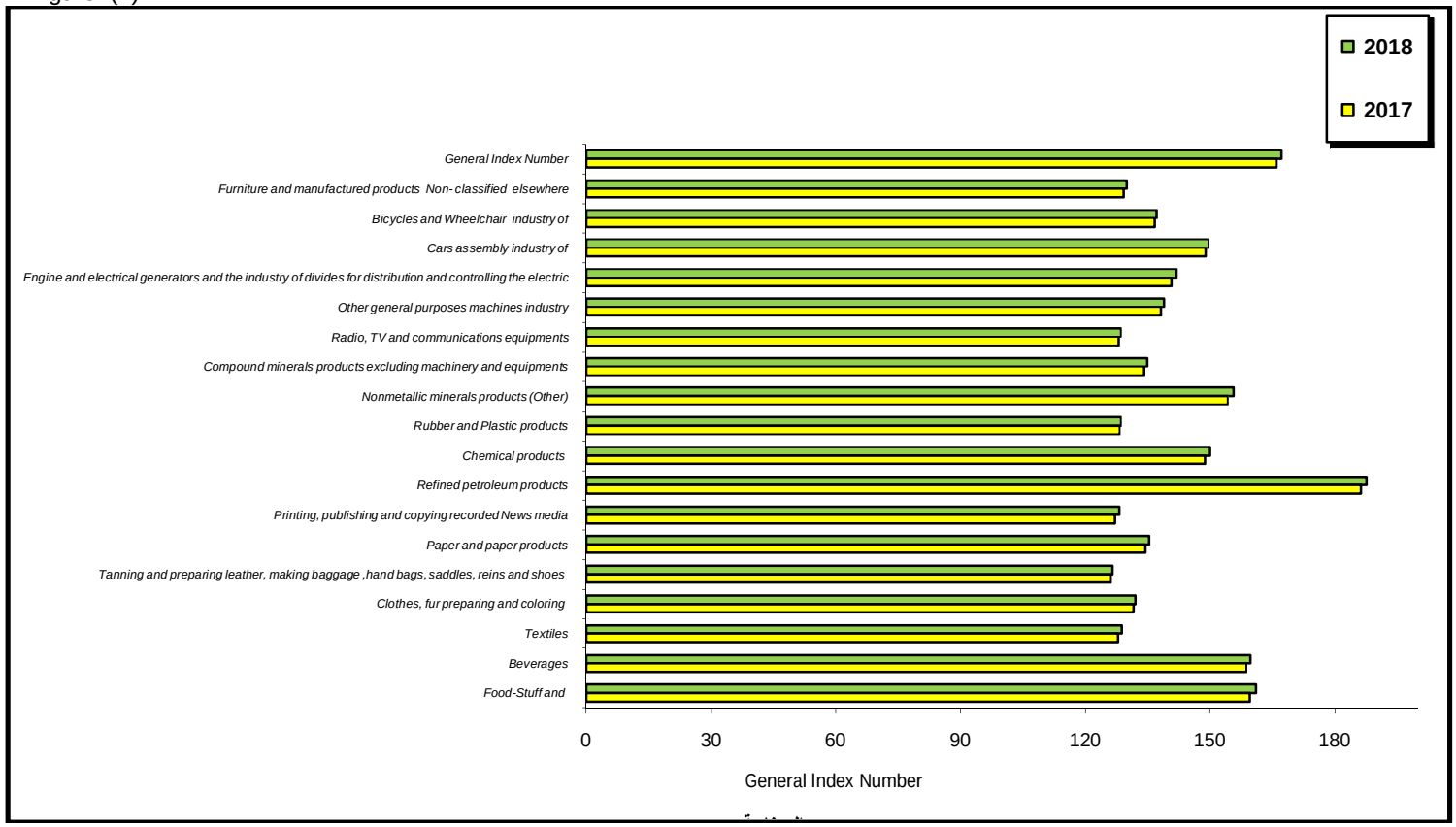
Input Price Indices by Manufacturing Industries Divisions of 2018 and the Annual Change Rates

Table. (4) (100=2012)

code	Division	Weight	index number Year 2017	index number Year 2018	Annual change Rate %
10	Food-Stuff	7.565	159.6	161.0	0.9
11	Beverages	6.393	158.8	159.7	0.6
13	Textiles	0.624	127.8	128.8	0.8
14	Clothes, fur preparing and coloring	0.209	131.6	132.0	0.3
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	126.1	126.6	0.4
17	Paper and paper products	0.079	134.4	135.3	0.7
18	Printing, publishing and copying recorded News media	0.322	127.2	128.1	0.7
19	Refined petroleum products	42.161	186.2	187.6	0.8
20	Chemical products	6.050	148.7	150.0	0.9
22	Rubber and Plastic products	0.642	128.2	128.5	0.2
23	Nonmetallic minerals products (Other)	23.56	154.3	155.7	0.9
25	Compound minerals products excluding machinery and equipments	2.092	134.1	134.9	0.6
26	Radio, TV and communications equipments	0.070	128.0	128.5	0.4
28	Other general purposes machines industry	4.983	138.2	139.0	0.6
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	140.8	141.9	0.8
29	Cars assembly industry of	3.512	148.9	149.6	0.5
30	Bicycles and Wheelchair industry of	0.052	136.7	137.1	0.3
31	Furniture and manufactured products Non- classified elsewhere	0.061	129.2	130.0	0.6
General Index Number		100	166.0	167.2	0.7

Input Price Indices by Manufacturing Industries Divisions of 2017 and 2018

Figure. (2)



Contribution Rates to the Annual Change Rate for the General Index Number of Input Prices of 2018

Table. (5)

code	Division	Weight	Annual change Rate %	Contribution to annual index change Rate	Contribution to annual index change Rate %
10	Food-Stuff	7.565	0.9	0.064	8.3
11	Beverages	6.393	0.6	0.035	4.6
13	Textiles	0.624	0.8	0.004	0.5
14	Clothes, fur preparing and coloring	0.209	0.3	0.001	0.1
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	0.4	0.000	0.0
17	Paper and paper products	0.079	0.7	0.000	0.0
18	Printing, publishing and copying recorded News media	0.322	0.7	0.002	0.3
19	Refined petroleum products	42.161	0.8	0.356	46.4
20	Chemical product\s	6.050	0.9	0.047	6.1
22	Rubber and Plastic products	0.642	0.2	0.001	0.1
23	Nonmetallic minerals products (Other)	23.56	0.9	0.199	25.9
25	Compound minerals products excluding machinery and equipments	2.092	0.6	0.010	1.3
26	Radio, TV and communications equipments	0.070	0.4	0.000	0.0
28	Other general purposes machines industry	4.983	0.6	0.024	3.1
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	0.8	0.010	1.3
29	Cars assembly industry of	3.512	0.5	0.015	2.0
30	Bicycles and Wheelchair industry of	0.052	0.3	0.000	0.0
31	Furniture and manufactured products Non- classified elsewhere	0.061	0.6	0.000	0.0
General Index Number		100	0.7	0.768	100

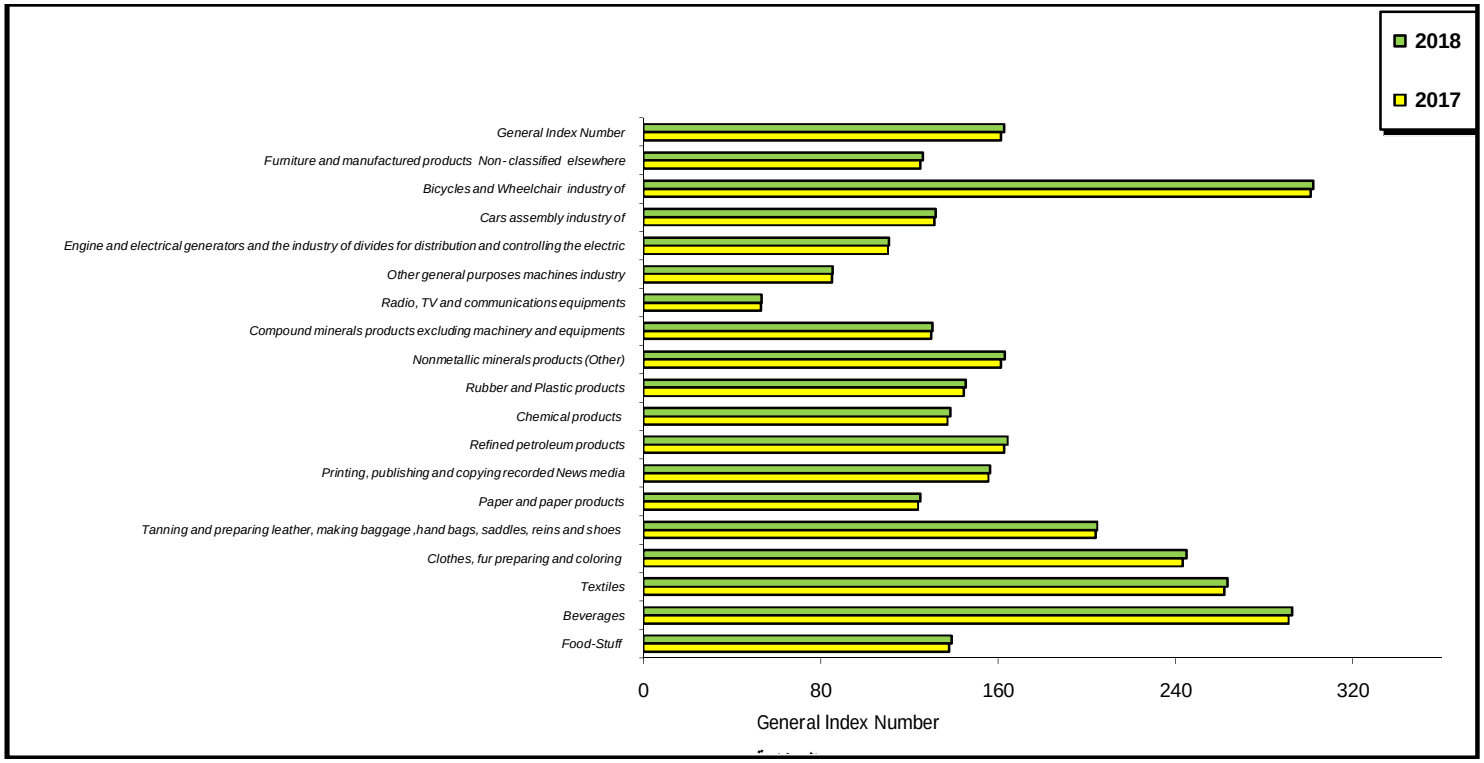
Industrial Production Indices by Manufacturing Industries Divisions for 2018 and the Annual Change Rates

Table. (6) (100=2012)

code	Division	Weight	index number Year 2017	index number Year 2018	Annual change Rate %
10	Food-Stuff	7.565	137.9	139.0	0.8
11	Beverages	6.393	291.0	292.5	0.5
13	Textiles	0.624	262.0	263.2	0.5
14	Clothes, fur preparing and coloring	0.209	243.2	244.8	0.7
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	204.0	204.6	0.3
17	Paper and paper products	0.079	123.9	125.1	1.0
18	Printing, publishing and copying recorded News media	0.322	155.6	156.4	0.5
19	Refined petroleum products	42.161	162.6	164.2	1.0
20	Chemical products	6.050	137.2	138.5	0.9
22	Rubber and Plastic products	0.642	144.5	145.3	0.6
23	Nonmetallic minerals products (Other)	23.56	161.2	162.9	1.1
25	Compound minerals products excluding machinery and equipments	2.092	130.0	130.5	0.4
26	Radio, TV and communications equipments	0.070	53.2	53.3	0.2
28	Other general purposes machines industry	4.983	85.1	85.5	0.5
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	110.3	111.0	0.6
29	Cars assembly industry of	3.512	131.2	131.7	0.4
30	Bicycles and Wheelchair industry of	0.052	300.9	302.1	0.4
31	Furniture and manufactured products Non- classified elsewhere	0.061	124.9	126.0	0.9
General Index Number		100	161.3	162.6	0.8

Industrial Production Indices by Manufacturing Industries Divisions of 2017 and 2018

Figure . (3)



Contribution Rates to the Annual Change Rate of Industrial Production General Index Number of 2018

Table. (7)

code	Division	Weight	Annual change Rate %	Contribution to annual index change Rate	Contribution to annual index change Rate %
10	Food-Stuff	7.565	0.8	0.052	5.9
11	Beverages	6.393	0.5	0.059	6.7
13	Textiles	0.624	0.5	0.005	0.6
14	Clothes, fur preparing and coloring	0.209	0.7	0.002	0.2
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	0.3	0.000	0.0
17	Paper and paper products	0.079	1.0	0.001	0.1
18	Printing, publishing and copying recorded News media	0.322	0.5	0.002	0.2
19	Refined petroleum products	42.161	1.0	0.418	47.8
20	Chemical products	6.050	0.9	0.049	5.6
22	Rubber and Plastic products	0.642	0.6	0.003	0.3
23	Nonmetallic minerals products (Other)	23.56	1.1	0.248	28.3
25	Compound minerals products excluding machinery and equipments	2.092	0.4	0.006	0.7
26	Radio, TV and communications equipments	0.070	0.2	0.000	0.0
28	Other general purposes machines industry	4.983	0.5	0.012	1.4
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	0.6	0.007	0.8
29	Cars assembly industry of	3.512	0.4	0.011	1.3
30	Bicycles and Wheelchair industry of	0.052	0.4	0.000	0.0
31	Furniture and manufactured products Non- classified elsewhere	0.061	0.9	0.000	0.0
General Index Number		100	0.8	0.875	100

Output Price Indices by Manufacturing Industries Divisions for the Four Quarters of 2018 and Annual Averages

Table No. (8) (100=2012)

code	Division	Weight	Quarter				Average
			First 2018	Second 2018	Third 2018	Fourth 2018	
10	Food-Stuff	7.565	182.4	182.9	183.2	183.5	183.0
11	Beverages	6.393	181.8	182.2	182.4	182.9	182.3
13	Textiles	0.624	139.9	140.1	140.3	140.5	140.2
14	Clothes, fur preparing and coloring	0.209	134.7	134.9	135.2	135.4	135.1
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	130.6	130.6	130.6	130.8	130.7
17	Paper and products	0.079	139.2	139.3	139.7	139.9	139.5
18	Printing, publishing and copying recorded News media	0.322	133.5	133.9	134.2	134.5	134.0
19	Refined petroleum products	42.161	182.0	182.5	183	183.6	182.8
20	Chemical products	6.050	150.3	150.5	150.7	151	150.6
22	Rubber and Plastic products	0.642	156.1	156.2	156.4	156.4	156.3
23	Nonmetallic minerals products (Other)	23.56	160.7	161.2	161.5	161.8	161.3
25	Compound minerals products excluding machinery and equipments	2.092	144.2	144.3	144.6	144.8	144.5
26	Radio, TV and communications equipments	0.070	137.9	138.2	138.4	138.6	138.3
28	Other general purposes machines industry	4.983	146.3	146.3	146.4	146.7	146.4
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	129.3	129.5	129.7	129.8	129.6
29	Cars assembly industry of	3.512	123.5	123.6	123.7	123.9	123.7
30	Bicycles and Wheelchair industry of	0.052	148.6	148.9	148.9	148.9	148.8
31	Furniture and manufactured products Non- classified elsewhere	0.061	140.7	141.0	141.3	141.5	141.1
General Index Number		100	168.8	169.2	169.6	170.0	169.4

Output Price Indices by Manufacturing Industries Divisions for the Period (2015-2018)

Table No. (9) (100=2012)

code	Division	Weight	index number Year 2015	index number Year 2016	index number Year 2017	index number Year 2018
10	Food-Stuff	7.565	178.5	180.0	181.5	183.0
11	Beverages	6.393	178.3	179.8	180.8	182.3
13	Textiles	0.624	137.2	138.2	139.2	140.2
14	Clothes, fur preparing and coloring	0.209	132.7	133.9	134.4	135.1
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	128.2	129.6	130.3	130.7
17	Paper and products	0.079	136.9	137.7	138.5	139.5
18	Printing, publishing and copying recorded News media	0.322	130.8	132.1	133.1	134.0
19	Refined petroleum products	42.161	177.4	179.2	181.0	182.8
20	Chemical products	6.050	146.7	148.0	149.3	150.6
22	Rubber and Plastic products	0.642	153.8	154.8	155.6	156.3
23	Nonmetallic minerals products (Other)	23.56	157.2	158.6	159.9	161.3
25	Compound minerals products excluding machinery and equipments	2.092	142.1	142.9	143.8	144.5
26	Radio, TV and communications equipments	0.070	135.5	136.9	137.5	138.3
28	Other general purposes machines industry	4.983	144.6	145.4	145.9	146.4
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	126.5	128.0	128.9	129.6
29	Cars assembly industry of	3.512	121.5	122.6	123.2	123.7
30	Bicycles and Wheelchair industry of	0.052	146.5	147.5	148.2	148.8
31	Furniture and manufactured products Non- classified elsewhere	0.061	137.9	138.9	140.0	141.1
General Index Number		100	165.0	166.6	167.9	169.4

Input Price Indices by Manufacturing Industries Divisions for the Four Quarters of 2018 and Annual Averages

Table No. (10) (100=2012)

code	Division	Weight	Quarter				Average
			First 2018	Second 2018	Third 2018	Fourth 2018	
10	Food-Stuff	7.565	160.4	160.7	161.2	161.5	161.0
11	Beverages	6.393	159.3	159.5	159.8	160.3	159.7
13	Textiles	0.624	128.5	128.7	128.8	129.0	128.8
14	Clothes, fur preparing and coloring	0.209	131.7	131.9	132.1	132.2	132.0
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	126.4	126.5	126.6	126.7	126.6
17	Paper and products	0.079	135.0	135.2	135.4	135.4	135.3
18	Printing, publishing and copying recorded News media	0.322	127.6	128.0	128.3	128.6	128.1
19	Refined petroleum products	42.161	187.0	187.3	187.9	188.2	187.6
20	Chemical products	6.050	149.6	149.9	150.1	150.2	150.0
22	Rubber and Plastic products	0.642	128.5	128.5	128.5	128.5	128.5
23	Nonmetallic minerals products (Other)	23.56	155.2	155.5	155.8	156.1	155.7
25	Compound minerals products excluding machinery and equipments	2.092	134.6	134.8	134.9	135.1	134.9
26	Radio, TV and communications equipments	0.070	128.2	128.6	128.6	128.6	128.5
28	Other general purposes machines industry	4.983	138.8	138.9	139.0	139.2	139.0
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	141.4	141.7	142.0	142.3	141.9
29	Cars assembly industry of	3.512	149.4	149.4	149.6	149.8	149.6
30	Bicycles and Wheelchair industry of	0.052	137.0	137.1	137.1	137.3	137.1
31	Furniture and manufactured products Non- classified elsewhere	0.061	129.8	130.0	130.1	130.1	130.0
General Index Number		100	166.7	167.0	167.4	167.7	167.2

Input Price Indices by Manufacturing Industries Divisions for the Period (2015-2018)

Table. (11) (100=2012)

code	Division	Weight	index number Year 2015	index number Year 2016	index number Year 2017	index number Year 2018
10	Food-Stuff	7.565	156.9	158.3	159.6	161.0
11	Beverages	6.393	156.3	157.9	158.8	159.7
13	Textiles	0.624	126.2	126.9	127.8	128.8
14	Clothes, fur preparing and coloring	0.209	129.5	130.7	131.6	132.0
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	124.9	125.6	126.1	126.6
17	Paper and products	0.079	132.1	133.6	134.4	135.3
18	Printing, publishing and copying recorded News media	0.322	125.2	126.1	127.2	128.1
19	Refined petroleum products	42.161	182.7	184.6	186.2	187.6
20	Chemical products	6.050	146.3	147.8	148.7	150.0
22	Rubber and Plastic products	0.642	126.6	127.4	128.2	128.5
23	Nonmetallic minerals products (Other)	23.56	151.0	152.7	154.3	155.7
25	Compound minerals products excluding machinery and equipments	2.092	132.2	133.3	134.1	134.9
26	Radio, TV and communications equipments	0.070	126.4	127.2	128.0	128.5
28	Other general purposes machines industry	4.983	139.1	137.4	138.2	139.0
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	136.6	140.0	140.8	141.9
29	Cars assembly industry of	3.512	147.0	148.0	148.9	149.6
30	Bicycles and Wheelchair industry of	0.052	134.8	135.7	136.7	137.1
31	Furniture and manufactured products Non- classified elsewhere	0.061	126.7	128.2	129.2	130.0
General Index Number		100	162.9	164.5	166.0	167.2

Industrial Production Indices by Manufacturing Industries Divisions for the Four Quarters of 2018 and the Annual Averages

Table. (12) (100=2012)

code	Division	Weight	Quarter				Average
			First 2018	Second 2018	Third 2018	Fourth 2018	
10	Food-Stuff	7.565	138.6	138.9	139.1	139.5	139.0
11	Beverages	6.393	291.9	292.2	292.7	293.2	292.5
13	Textiles	0.624	262.8	263.1	263.3	263.5	263.2
14	Clothes, fur preparing and coloring	0.209	244.0	244.5	245.0	245.5	244.8
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	204.5	204.5	204.5	204.7	204.6
17	Paper and products	0.079	124.8	125.1	125.3	125.3	125.1
18	Printing, publishing and copying recorded News media	0.322	156.1	156.2	156.5	156.8	156.4
19	Refined petroleum products	42.161	163.6	163.9	164.4	164.7	164.2
20	Chemical products	6.050	138.1	138.3	138.6	138.8	138.5
22	Rubber and Plastic products	0.642	145.0	145.3	145.4	145.5	145.3
23	Nonmetallic minerals products (Other)	23.56	162.3	162.6	163.1	163.4	162.9
25	Compound minerals products excluding machinery and equipments	2.092	130.3	130.4	130.5	130.8	130.5
26	Radio, TV and communications equipments	0.070	53.2	53.2	53.3	53.3	53.3
28	Other general purposes machines industry	4.983	85.4	85.4	85.5	85.6	85.5
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	110.8	110.9	111.0	111.2	111.0
29	Cars assembly industry of	3.512	131.5	131.5	131.8	132.0	131.7
30	Bicycles and Wheelchair industry of	0.052	301.9	302.2	302.2	302.2	302.1
31	Furniture and manufactured products Non- classified elsewhere	0.061	125.6	125.9	126.2	126.3	126.0
General Index Number		100	162.2	162.4	162.8	163.1	162.6

Industrial Production Indices by Manufacturing Industries Divisions for the Period 2015-2018

Table. (13) (100=2012)

code	Division	Weight	index number Year 2015	index number Year 2016	index number Year 2017	index number Year 2018
10	Food-Stuff	7.565	135.1	136.5	137.9	139.0
11	Beverages	6.393	288.5	289.7	291.0	292.5
13	Textiles	0.624	259.5	260.8	262.0	263.2
14	Clothes, fur preparing and coloring	0.209	240.0	241.9	243.2	244.8
15	Tanning and preparing leather, making baggage ,hand bags, saddles, reins and shoes	0.111	202.5	203.0	204.0	204.6
17	Paper and products	0.079	121.3	122.7	123.9	125.1
18	Printing, publishing and copying recorded News media	0.322	153.3	154.6	155.6	156.4
19	Refined petroleum products	42.161	158.9	160.9	162.6	164.2
20	Chemical products	6.050	134.7	136.0	137.2	138.5
22	Rubber and Plastic products	0.642	143.1	143.8	144.5	145.3
23	Nonmetallic minerals products (Other)	23.56	158.2	159.8	161.2	162.9
25	Compound minerals products excluding machinery and equipments	2.092	128.3	129.2	130.0	130.5
26	Radio, TV and communications equipments	0.070	51.5	52.7	53.2	53.3
28	Other general purposes machines industry	4.983	108.7	84.6	85.1	85.5
27	Engine and electrical generators and the industry of divides for distribution and controlling the electric	1.514	83.8	109.6	110.3	111.0
29	Cars assembly industry of	3.512	129.5	130.6	131.2	131.7
30	Bicycles and Wheelchair industry of	0.052	298.7	300.2	300.9	302.1
31	Furniture and manufactured products Non- classified elsewhere	0.061	122.3	123.8	124.9	126.0
General Index Number		100	158.2	159.8	161.3	162.6

Output Price Indices for the Years (1999-2018)

Table. (14)

Annual change Rate %	General Index Number 100=2012	General Index Number 100 = 2007	General Index Number 100 =1988	Year
-	17.4	27.2	72996.0	1999
10.3	19.2	30.1	80601.0	2000
1.5	19.5	30.5	81688.0	2001
6.2	20.7	32.4	86910.0	2002
15.0	23.8	37.3	99979.0	2003
75.6	41.8	65.5	175581.5	2004
23.4	51.6	80.8	216746.3	2005
14.1	58.9	92.3	247472.2	2006
8.5	63.9	100.0	268202.0	2007
14.9	73.4	115.0	282493.4	2008
22.5	89.9	140.8	377628.4	2009
5.0	94.4	147.9	396670.8	2010
3.4	97.6	152.8	409812.7	2011
2.5	100	156.6	420002.3	2012
2.4	102.4	160.3	429927.8	2013
58.8	162.6	168.4	682923.7	2014
1.5	165.0	258.4	693003.8	2015
1.0	166.6	260.9	699723.8	2016
0.8	167.9	262.9	705183.9	2017
0.9	169.4	265.3	711483.9	2018

Price indices for 1999 - 2014 by base year 2012 obtained by linking the time series

Input Price Indices for the years (1999-2018)

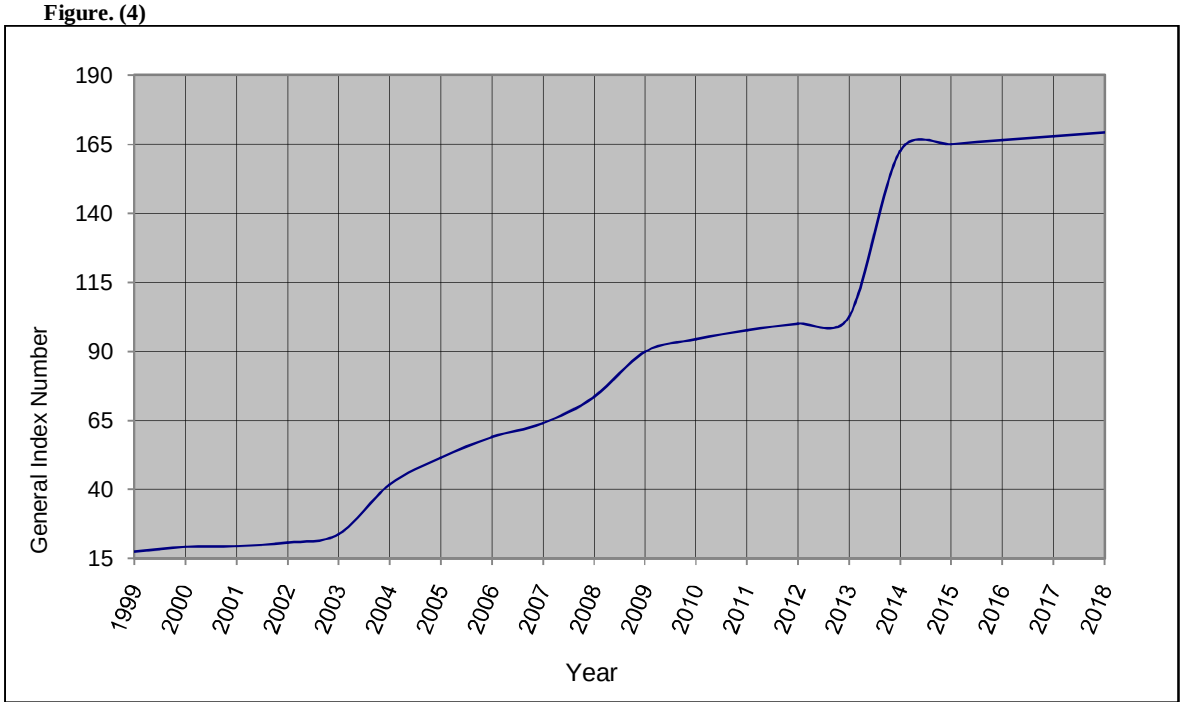
Table. (15)

Annual change Rate %	General Index Number 100=2012	General Index Number 100 = 2007	General Index Number 100 =1988	Year
-	27.4	42.1	108831.0	1999
13.5	31.1	47.9	123734.0	2000
22.5	38.1	58.6	151627.0	2001
3.4	39.4	60.6	156671.0	2002
8.1	42.6	65.6	169696.0	2003
-7.0	39.6	60.9	157437.8	2004
24.2	49.2	75.7	195825.1	2005
26.2	62.1	95.6	247289.1	2006
4.7	65	100.0	258565.7	2007
27.2	82.7	127.3	273342.9	2008
9.3	90.4	139.2	359923.5	2009
5.0	94.9	146.1	377764.5	2010
2.8	97.6	150.2	388365.7	2011
2.5	100	153.9	397932.6	2012
2.3	102.3	157.4	406982.4	2013
57.1	160.7	160.8	639477.7	2014
1.4	162.9	250.7	648232.2	2015
1.0	164.5	253.2	654599.1	2016
0.9	166.0	255.5	660568.1	2017
0.7	167.2	257.3	665343.3	2018

Price indices for 1999 - 2014 by base year 2012 obtained by linking the time series.

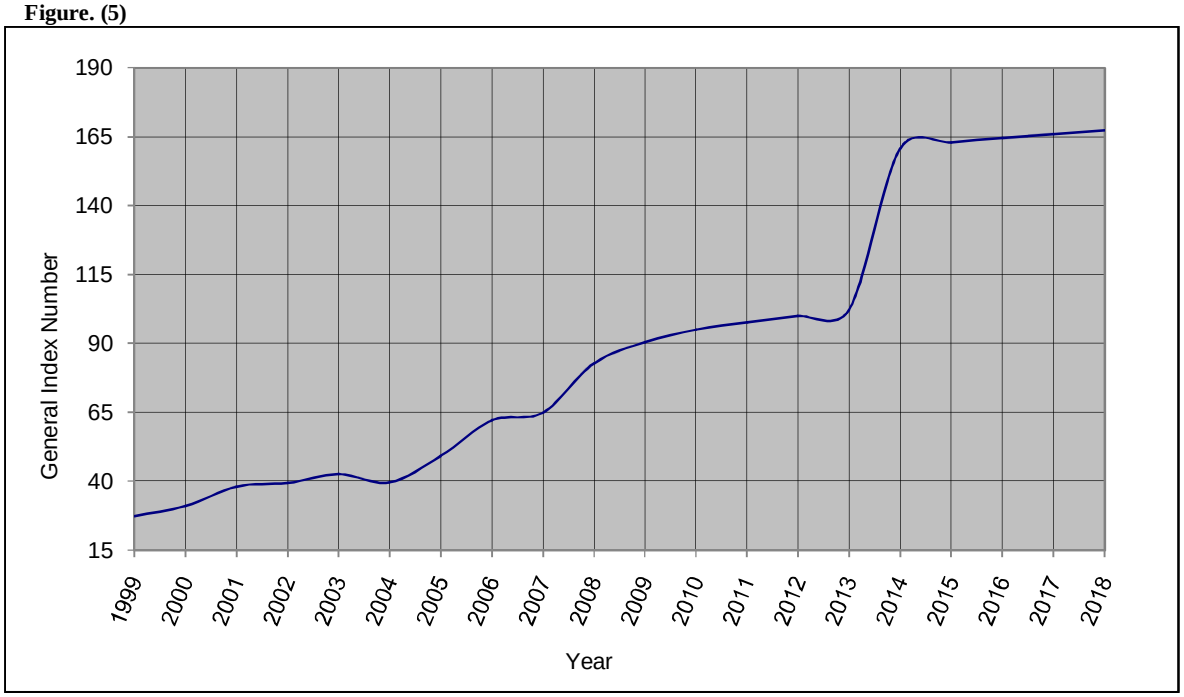
Output Price Indices for the Years (1999-2018)

Figure. (4)



Input Price Indices for the Years (1999-2018)

Figure. (5)



Industrial Production Indices for the Period (1980-2018)

Table. (16)

Annual change Rate %	General Index Number 100 = 2012	General Index Number 100 = 2007	General Index Number 100 =1988	Year
-	136.4	219.8	93.4	1980
-8.3	125.1	201.6	85.7	1981
1.9	127.4	205.4	87.3	1982
-6.3	119.4	192.5	81.8	1983
4.4	124.6	200.9	85.4	1984
10.0	137.0	220.9	93.9	1985
-5.4	129.6	208.9	88.8	1986
-1.6	127.5	205.6	87.4	1987
14.4	146.0	235.3	100.0	1988
3.4	150.9	243.3	103.4	1989
-15.2	128.0	206.4	87.7	1990
-34.2	84.2	135.8	57.7	1991
-10.8	75.2	121.2	51.5	1992
-7.0	69.9	112.7	47.9	1993
2.1	71.4	115.1	48.9	1994
16.3	83.1	133.9	56.9	1995
4.4	86.7	139.8	59.4	1996
8.9	94.4	152.2	64.7	1997
1.4	95.8	154.4	65.6	1998
5.6	101.2	163.1	69.3	1999
-4.5	96.7	155.8	66.2	2000
9.2	105.5	170.1	72.3	2001
-8.8	96.2	155.1	65.9	2002
-28.6	68.7	110.8	47.1	2003
-22.3	53.4	86.1	36.6	2004
-1.0	52.9	85.2	36.2	2005
10.4	58.4	94.1	40.0	2006
6.3	62.0	100.0	42.5	2007
6.7	66.2	106.7	44.2	2008
36.0	90.0	145.1	61.7	2009
6.3	95.7	154.3	65.6	2010
2.3	98.0	157.9	67.1	2011
2.1	100.0	161.2	68.5	2012
2.4	102.4	165.0	70.1	2013
53.0	156.7	168.4	107.3	2014
10.0	158.2	170.0	108.4	2015
1.0	159.8	257.6	109.5	2016
0.9	161.3	259.9	110.5	2017
0.8	162.6	262.2	111.4	2018

Price indices for 1980 – 1987, 1989, 2009- 2017 by base year 1988 obtained by linking the time series.
Price indices for 1980 - 2006 by base year 2007 obtained by linking the time series
Price indices for 1980 – 2011-2013 by base year 2012 obtained by linking the time series

Industrial Production Indices for the Period (1980-2018) ، (2012 =100)

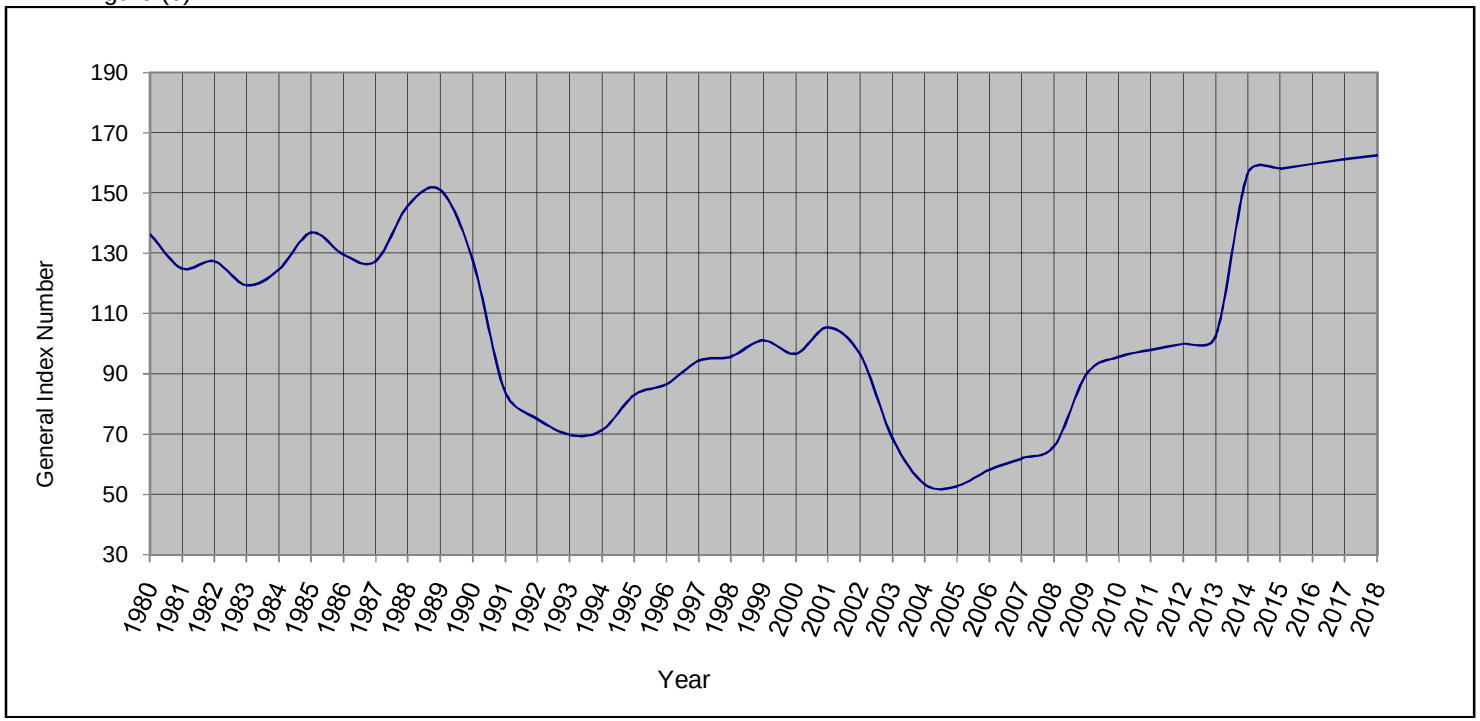



Figure (6)