

A Study in Economic Analysis of Direction of Agricultural Exports in India

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Received 24th Feb 2022, Accepted 07th Mar 2022, Online 7th May 2022

Abstract: Exports of a country play a vital role in the growth of an economy. The development of this sector is an indicator of the economic strength of a country. It helps raise productivity, generate employment, and support other sectors of the Indian economy. The principal objective of the current review (I) is to examine the patterns in bearing India's horticultural products from 1991-92 to 2016-17. (ii) To concentrate on developing India's Export to Various major agrarian wares. The review exclusively depends on optional information gathered from different distributed wellsprings of Government Agencies, Directorate General of Commercial Intelligence and Statistics (DGCIS), Handbook of Statistics on Indian Economy, Reserve Bank of India (RBI), Government of India. The information was dissected utilizing elucidating insights like tables. Likewise, an endeavour is made to introduce gathered information through line charts and bar graphs. The time of the study (1991-92 to 2016-17).

Keywords: Agricultural exports, the direction of exports, trends.

I. INTRODUCTION

International trade assumed an unmistakable part of India's financial development. The development and advancement of commodities procure significant unfamiliar trade for the country. Trades are the primary assets for a non-industrial nation to quickly develop [2]-[3]. Trades help expand the size of the market, broadening the global division of work and specialization and size of creation. Horticulture assumes a crucial part in India's economy. More than 58% of the country's families rely upon horticulture as their chief method for the job. Agribusiness, alongside fisheries and ranger service, is perhaps the biggest supporter of the Gross Domestic Product [1]. A product is a conspicuous job of a country's public economy and contributes significantly to the monetary government assistance of individuals and the improvement of assets. Economies of scale and worldwide specialization and the products of logical and mechanical advancement become all the more effectively available through the unfamiliar exchange. Agrarian commodities of India had come to possess a crown position in the worldwide market throughout the long term [6]. Today, India is a significant provider of a few rural items like tea, espresso, rice, flavours, cashew, oil dinners, new organic products, new vegetables, meat and its arrangements and Miscellaneous items to the worldwide market. In any case, the nation faces merciless contests from other key parts in the field, both the current and new contestants [8]-[12].

Amusingly, the significant test is from inside Asia itself, where nations like China, Malaysia, Philippines, Thailand, Singapore, United States of America, United Kingdom, and Indonesia represent a major danger to Indian rural items [5]. This paper tries to break down the patterns of India's rural commodities from 1991-92 to 2016-17 [13]-[17].

II. SIGNIFICANCE OF THE STUDY

International trade is the engine of economic growth in any country [18]. Following the liberalization of the Indian economy in 1991, exports and imports of India have been growing tremendously. But the value of imports is still larger than the value of exports [19]-[22]. Thus, there is a need to boost the growth rate of India. The impact of trade reforms on exports enhances the level of exports of India. In 1991, Export performance was one of India's key objectives of liberalization reforms [23]-[29]. At present, global trade is a vital part of the development approach, and it can be a valuable instrument of poverty reduction create more employment, increases output, earns foreign currency, financial development, and mobilizes domestic resources and saving optimally so that the economic benefits reach the wider group of people [4];[7]. The study brings into light the growth performance of India's export to the Commodity-wise direction of agricultural exports. It would be helpful for the policymaker to enact suitable policies for encouraging trade [30]-[33]. This study will also be helpful for the upcoming researcher in the field of international economics [34].

III. OBJECTIVE OF THE STUDY

The main objective of the present study

- To analyze the trends in India's agricultural exports from 1991-92 to 2016-17.
- To study India's export growth performance to Various major agricultural commodities.

IV. RESEARCH METHODOLOGY

The study solely relies on secondary data collected from various published sources of Government Agencies, Directorate General of Commercial Intelligence and Statistics (DGCIS), Handbook of Statistics on Indian Economy, Reserve Bank of India (RBI), Government of India. The data were analyzed using descriptive statistics such as tables [35]-[39]. Similarly, an attempt is made in this part to present collected data through a line graph bar diagram [40]-[42]. The period of study (1991-92 to 2016-17)

Economic Analysis of Direction of Agri Cultural Exports in India

The direction of exports of some important primary, ores and minerals, manufacturing goods was examined [43]-[47]. Exports to countries that had the major values were considered for this analysis. The major export commodities included Tea, Coffee, Rice Products, Tobacco, Spices, Cashew Oil, Meals, Marine Products and Iron Ore Products. Table 1 shows the Direction of agricultural Exports in India from 1991-92 to 2016-17 [48]-[51].

Table 1. Direction of India's Export of Tea Products In 1991-92 To 2016-17 (US\$ MILLION)

Countries	1991-92	1995-96	2000-01	2005-06	2010-11	2015-16	2016-17
Germany	23.8	22.6	20.3	25.5	32.5	40.0	41.5
Iran	42.9	1.6	11.6	18.3	67.3	105.2	99.2
Iraq	0	0.1	20.4	11.1	4.1	0.3	0.7
Japan	7.9	8.6	11.2	15.7	24.8	22.5	22.8
Kazakhstan	0	6.6	19.9	22.3	50.8	31.1	34.3
Poland	18.6	24.1	11.1	5.5	11.4	13.4	12.5
Russia	233.2	142.5	104.8	53.7	113.1	103.0	108.9
U.A.E	18.9	39.3	59.1	60.1	77.7	50.9	56.3
U.K.	55	37.8	45.9	50.2	79.1	64.1	51.3
U.S.A	8.5	8.8	23.4	33.4	61.1	63.1	69.6
Others	82.8	58.2	63.7	100.5	214.3	227.2	237.3
Total	491.5	350.1	391.5	390.9	736.2	720.8	734.4

Source: Directorate General of Commercial Intelligence and Statistics

Table 1 clearly shows among the tea products exporting countries, Russia decreased from \$233.2 million US dollar in 1991-92 to \$53.7 million US dollar in 2005-06 grew up to \$108.9 million US dollar in 2016-17. India's export to Iran declined from \$42.9 million US dollars in 1991-92 to \$11.6 million US dollars in 2000-01 then increased to \$105.2 million US dollars in 2015-16 declined to \$99.2 million US dollar in 2016-17 [52]-[57]. India's export to the USA increased from \$8.5 million US dollars in 1991-92 to \$33.4 million US dollars in 2005-06 then to \$69.6 million US dollars in 2016-17. India's export to UAE increased from \$18.9 million US dollars in 1991-92 to \$77.7 million US dollars in 2010-11 and finally decreased to \$56.3 million US dollars in 2016-17 (figure 1).

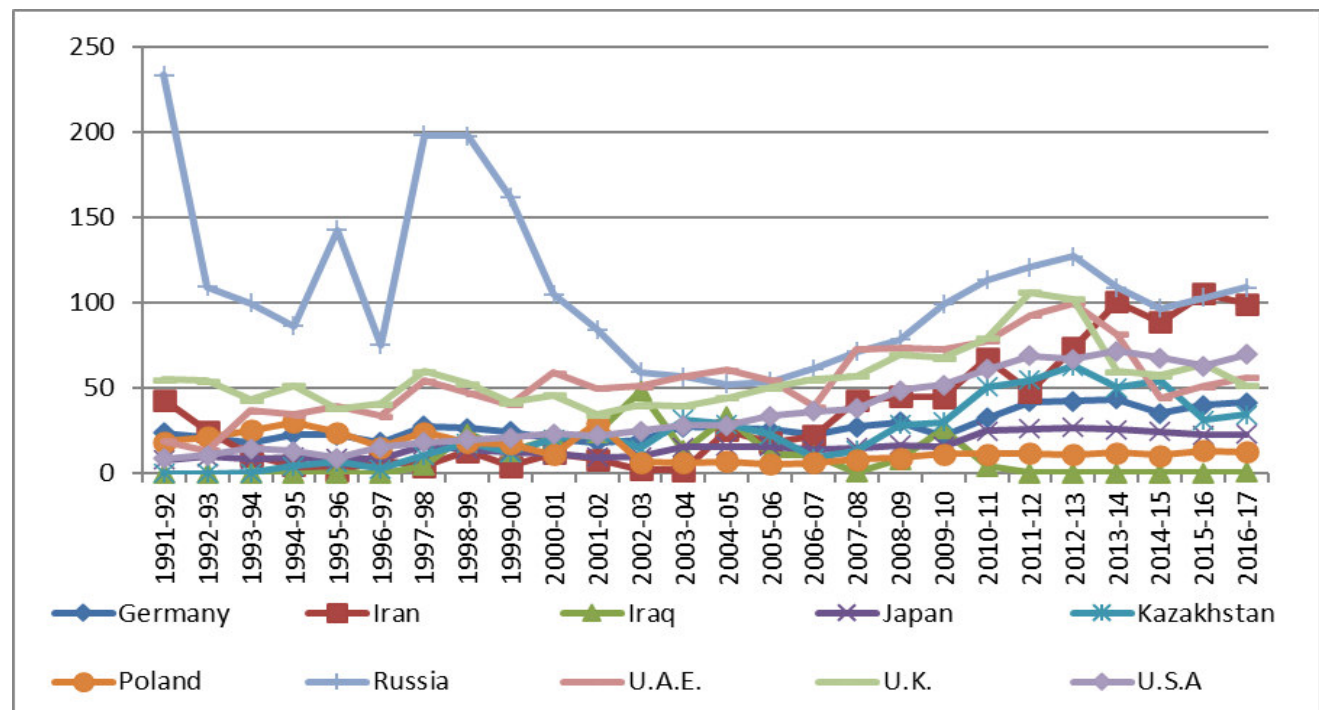


Fig. 1. Trend and Growth Rate of Tea Products

Table 2. Direction of India's Export of Coffee Products In 1991-92 To 2016-17 (US\$ Million)

Countries	1991-92	1995-96	2000-01	2005-06	2010-11	2015-16	2016-17
Belgium	0.3	7.8	12.8	19.9	47.8	43.5	55.8
Germany	12.4	43.5	31	34.5	91.1	70.4	80.7
Italy	12.2	59.1	27.8	82.7	160.7	173.0	176.8
Latvia	0	1.4	8.4	4.5	3.9	2.8	2.3
Netherlands	1.4	4.3	6.3	4.9	5.6	4.1	7.5
Russia	50.9	101.9	63.1	67.4	60.8	65.0	71.4
Spain	0.9	5.4	9.4	14.7	17.8	12.6	18.7
Switzerland	1	3.5	8.8	5.6	5.5	9.2	4.6
The UK.	1.2	4.2	5.9	2.8	5.4	7.4	8.2
U.S.A	9.7	49.3	17.1	5.6	18.9	28.7	36.8
Others	44.8	168.9	68.8	116.2	243.1	366.2	382.4
Total	134.7	449.3	259.4	358.8	660.61	782.9	845.2

Source: Directorate General of Commercial Intelligence and Statistics

It can be seen from Table 2 that the coffee products exporting countries, Italy, rose from \$12.2 million US dollar in 1991-92 to \$82.7 million US dollar in 2005-06 then to \$176.8 million US dollar in 2016-17. India's export of Germany increased from \$12.4 million US dollar in 1991-92 to \$91.1 million US dollar in 2010-11 and finally fell to \$80.7 million US dollar in 2016-17. India's export to Russia increased from the US \$50.9 million US dollar in 1991-92 to \$101.9 million US dollar in 1995-96 and finally decreased to \$71.4million US dollar in 2016-17. India's export of Latvia improved from \$0.0 million US dollar in 1991-92 to \$8.4 million US dollar in 2000-01 then finally decelerated to \$2.3 million US dollar in 2016-17 (figure 2).

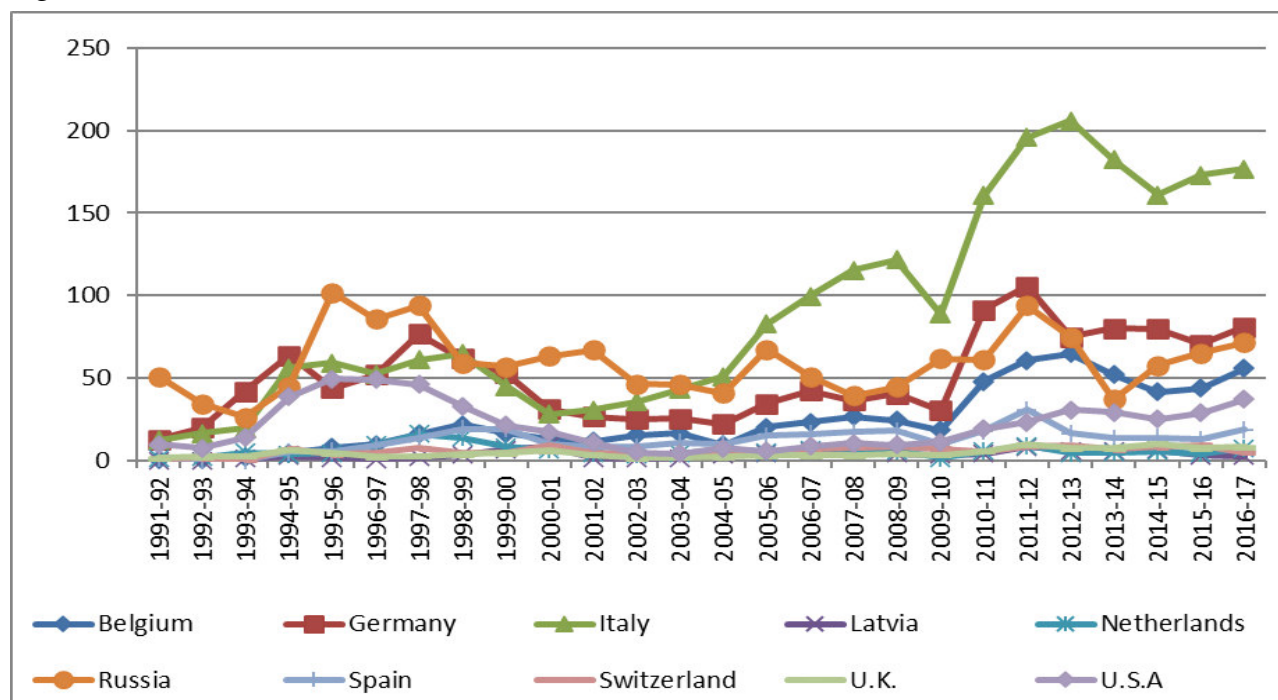


Fig. 2. Trend and Growth Rate of Coffee Products In 1991-92 To 2016-17

Table 3. Direction of India's Export of Rice Products In 1991-92 To 2016-17 (US\$ Million)

Countries	1991-92	1995-96	2000-01	2005-06	2010-11	2015-16	2016-17
Bangladesh	0.8	284.5	65.1	124.8	2.6	133.1	30.6
France	2.5	7.6	12.7	6.3	9.1	17.0	19.3
Kuwait	7.7	26.8	52.3	60	239.6	228.4	168.7
Saudi Arabia	112.7	147.1	286.6	423.3	688.7	916.6	736.3
Singapore	4.8	2.4	7.2	14.7	8	66.4	54.6
South Africa	0	93	14.7	72.2	13.2	99.3	101.5
UAE.	22.8	54.6	24.8	90.3	624.4	589.4	629.0
The UK.	34.3	35.8	67	51.6	77.4	153.1	110.2
U.S.A	17.2	30.7	29.6	30.8	55.4	164.9	140.7
Others	103.8	675	74.5	499.3	759.3	3312.0	3660.5
Total	306.5	1365.7	641.8	1405.2	2542.89	5835.2	5773.9

Source: Directorate General of Commercial Intelligence and Statistics

From the above Table, 3 observations concerning the export of rice products to Saudi Arabia rose from \$112.7 million US dollar in 1991-92 to \$916.6 million US dollar in 2015-16 finally declined to \$736.3 million US dollar in 2016-17. India's export to UAE accelerated from \$22.8 million US dollars in 1991-92 to \$54.6 million US dollars in 1995-96 then declined to \$24.8 million US dollars in 2000-01 and finally increased to \$629 million US dollar in 2016-17. India's export to Kuwait improved from \$7.7 million US dollars in 1991-92 to \$60 million US dollars in 2005-06 to \$168.7 million US dollars in 2016-17. India's export to France increased from \$2.5 million US dollar in 1991-92 to \$12.7 million US dollar in 2000-01 then declined to \$9.1 million US dollar in 2010-11 and finally increased to \$19.3 million US dollar in 2016-17 (figure 3).

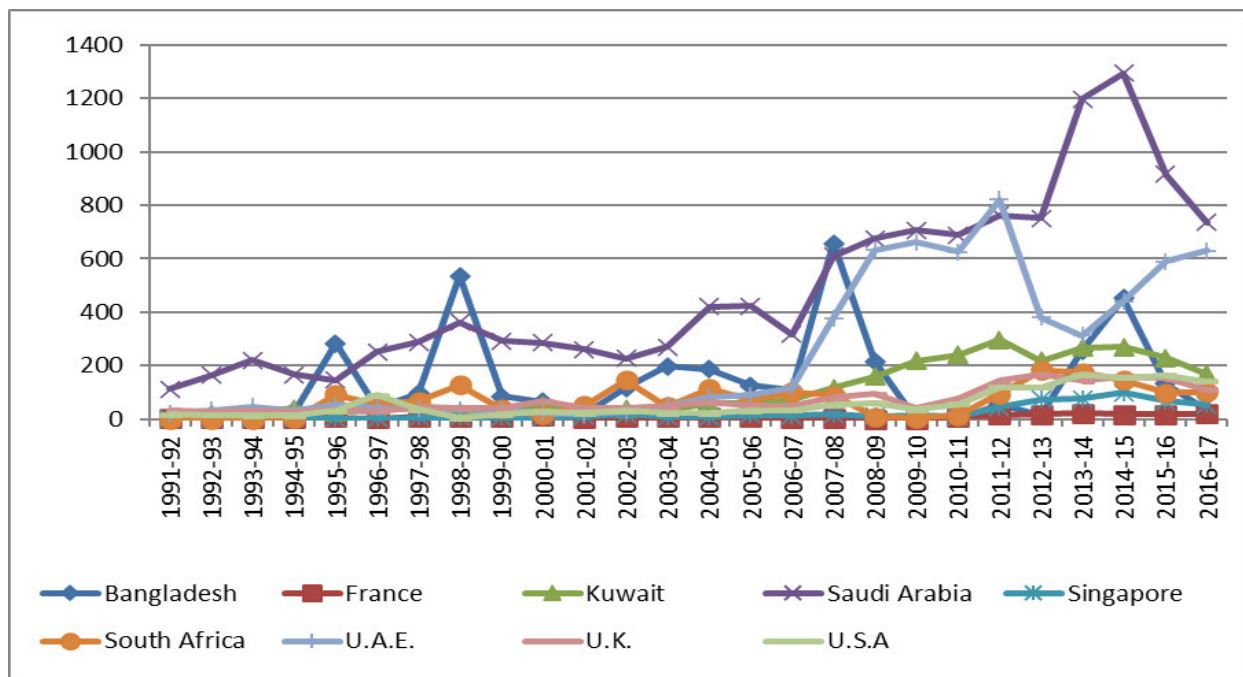


Fig. 3. Direction of India's Export of Rice Products

Table 4. Direction of India's Export of Tobacco Products In 1991-92 To 2016-17 (US\$ Million)

Countries	1991-92	1995-96	2000-01	2005-06	2010-11	2015-16	2016-17
Belgium	32.1	7.0	13.6	36.7	123.2	184.0	190.2
Germany	8.6	7.4	20.8	16	52.2	14.8	17.6
Netherlands	4.6	2.8	10.2	11.3	42.6	41.4	28.7
Russia	19.2	22.5	27.8	39.3	42.4	38.9	32.6
Saudi Arabia	12.3	7.8	8.7	11.1	19.9	61.5	36.5
Singapore	2.1	1.6	7.6	9.3	18.3	27.8	17.9
UAE.	3.8	6.9	15.3	22.3	57	100.6	131.9
U.K.	30	23.5	14.4	13	24.5	5.7	9.6
U.S.A	2.3	2.6	12.9	11.8	23	28.2	29.9
Yemen	0	8.2	7.3	31.8	65.2	16.2	13.1
Others	37.4	47.3	50.9	121.1	454.8	466.5	453.7
Total	152.9	133.6	189.8	300.6	874.71	985.6	961.7

Source: Directorate General of Commercial Intelligence and Statistics

Table 4 gives an insight into the tobacco exporting countries. Belgium declined from \$ 32.1 million US dollar in 1991-92 to \$7.0 million US dollar in 1995-96 then increased to \$123.2 million US dollar in 2010-11 to \$190.2 million US dollar in 2016-17. India's export to UAE increased from \$3.8 million US dollars in 1991-92 to \$57 million US dollars in 2010-11 to \$131.9 million US dollars in 2016-17. India's export to Saudi Arabia decelerated from \$12.3 million US dollar in 1991-92 to \$8.7 million US dollar in 2005-06 suddenly increased to 61.5 million US dollar in 2015-16 finally decreased to \$36.5 million US dollar in 2016-17. India's export to the UK fell from \$30 million US dollars in 1991-92 to \$13 million US dollar in 2005-06 and increased to \$24.5 million US dollar in 2010-11 finally decelerated to \$9.6 million US dollar in 2016-17 (figure 4).

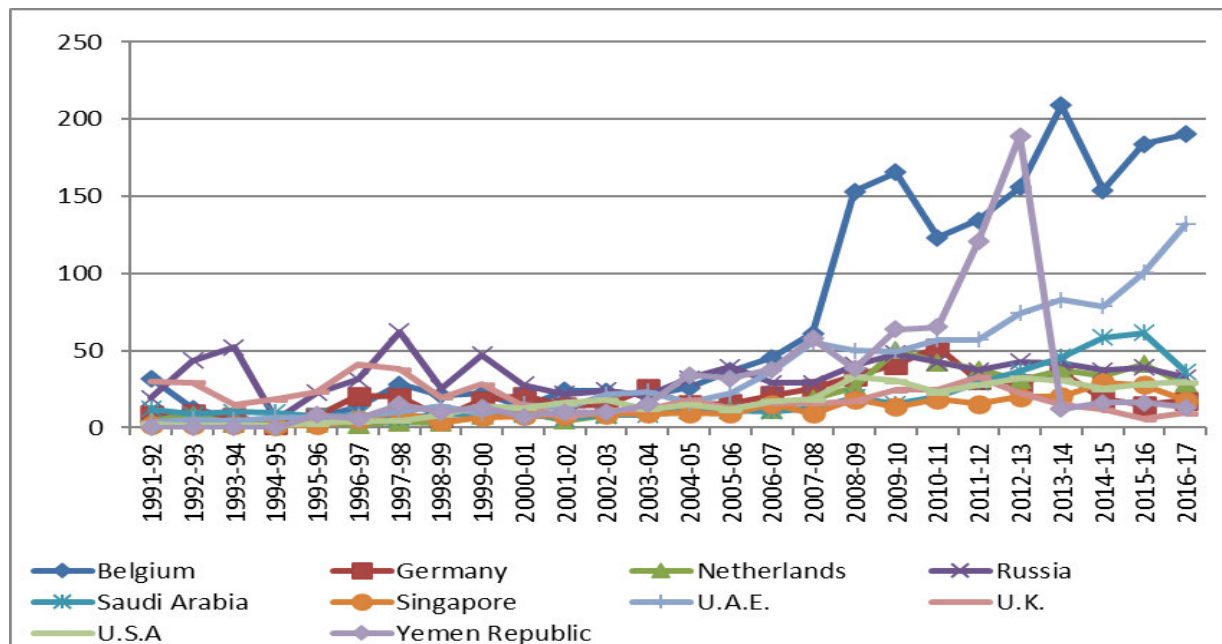


Fig. 4. Direction of India's Export of Tobacco Products

Table 5. Direction of India's Export of Spices Products In 1991-92 To 2016-17 (US\$ Million)

Countries	1991-92	1995-96	2000-01	2005-06	2010-11	2015-16	2016-17
Bangladesh	20.4	13	15.5	10.6	52.2	51.3	109.5
Germany	4.4	8.3	12.2	22.7	78	81.7	78.2
Japan	6.4	8	22.9	27.3	49.1	50.4	54.3
Saudi Arabia	4.9	6.9	12.6	13.4	46.3	98.6	91.9
Singapore	5.3	9.5	13.5	13.6	52.7	49.9	48.6
Spain	1	3.7	10.9	7.2	18.2	36.4	45.2
Sri Lanka	11.2	11.3	13	19.7	66.4	97.2	97.4
UAE.	8.8	18.4	20.8	24.6	93.1	102.3	108.8
The UK.	7.4	14.1	24.6	31.6	96.7	115.4	116.6
U.S.A	29.6	51.6	75.4	103.4	261.5	424.9	444.2
Yemen	0.5	4	7.7	8.8	16.8	0.0	0.0
Others	51.6	92.4	132.7	203.9	951.2	1432.1	1692.8
Total	151	237.2	354.1	477.9	1765.37	2540.2	2887.5

Source: Directorate General of Commercial Intelligence and Statistics

Table 5 clearly shows among the spices exporting countries, and the USA accelerated from \$29.6 million US dollar in 1991-92 to \$103.4 million US dollar in 2005-06 then to \$444.2 million US dollar in 2016-17. India's export to the UK declined from \$7.4 million US dollars in 1991-92 to \$96.7 million US dollars in 2010-11 then to \$116.6 million US dollars in 2016-17. India's export to Bangladesh increased from \$20.4 million US dollars in 1991-92 to \$10.6 million US dollars in 2005-06; it went up to \$109.5 million US dollars in 2016-17. India's export to Yemen increased from \$0.5 million US dollars in 1991-92 to \$16.8 million US dollars in 2010-11, finally down to \$ 0 million US dollars in 2016-17 (figure 5).

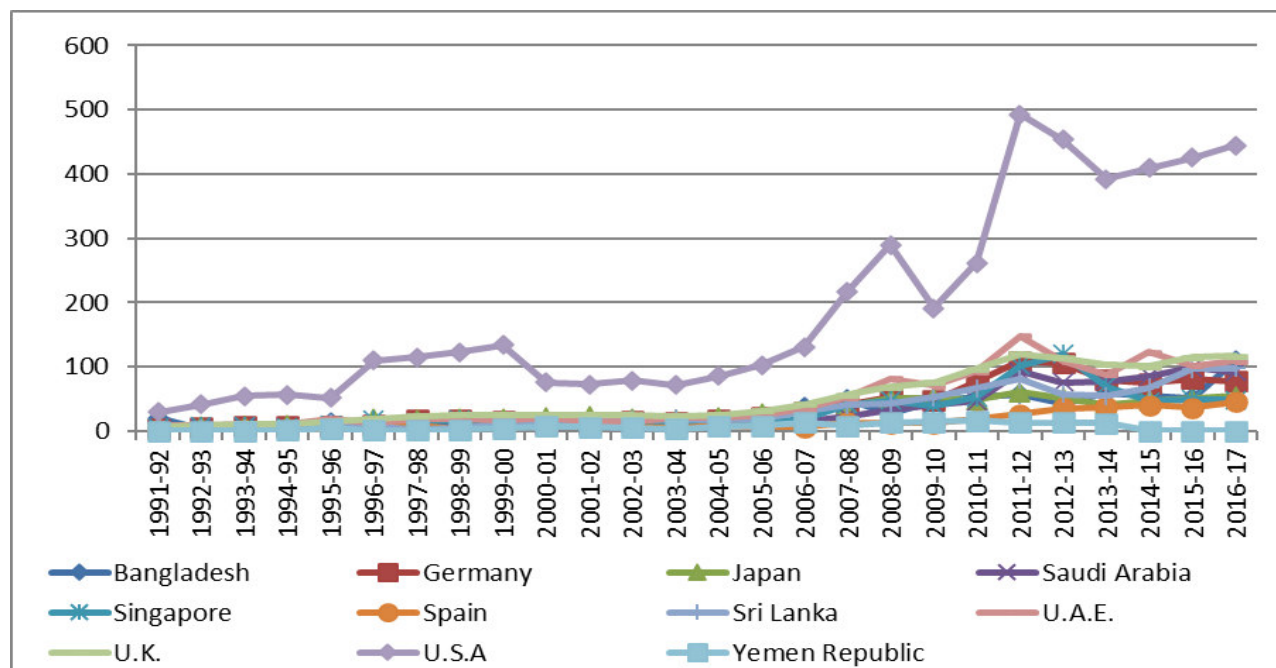


Fig. 5. Direction of India's Export of Spices Products

Table 6. Direction of India's Export of Cashew Products In 1991-92 To 2016-17 (US\$ Million)

Countries	1991-92	1995-96	2000-01	2005-06	2010-11	2015-16	2016-17
Canada	1.8	1	7.1	7.4	3.6	3.2	3.2
France	0.3	3.4	12.1	17.3	19.8	23.6	17.7
Israel	1.1	4.3	6.4	4.1	3.0	5.7	3.0
Italy	0.3	1.3	5.7	5.6	6.4	5.9	6.3
Japan	26.8	30.1	26.7	24.9	35.4	64.3	59.5
Netherlands	68.8	62.5	83.2	92.8	63.5	47.7	44.2
Saudi Arabia	1.5	3.3	8.3	13.7	23.6	59.7	70.7
UAE.	8.5	11.5	18.3	42.7	86.3	147.4	181.8
The UK.	9.6	12.8	32.6	32.8	15.7	13.8	15.6
USA	81.7	104.4	202.3	222.4	202.7	175.6	164.4
Others	73.5	135.3	46.7	122	166.2	221.1	224.3
Total	274	369.9	449.5	585.8	626.21	768.0	790.7

Source: Directorate General of Commercial Intelligence and Statistics

It can be seen from Table 6 that among the cashew exporting countries, UAE enlarged from \$8.5 million US dollar in 1991-92 to \$86.3 million US dollar in 2010-11 finally to \$181.8 million US dollar in 2016-17. India's export of the USA went up from \$81.7 million US dollars in 1991-92 to \$222.4 million US dollars in 2005-06 and fell to \$164.4 million US dollars in 2016-17. India's export of Saudi Arabia increased from \$1.5 million US dollar in 1991-92 to \$23.6 million US dollar in 2010-11 and to \$70.7 million US dollar in 2016-17. India's export of Israel improved from \$1.1 million US dollar in 1991-92 to \$6.4 million US dollar in 2000-01 and finally decelerated to \$3.0 million US dollar in 2016-17 (figure 6).

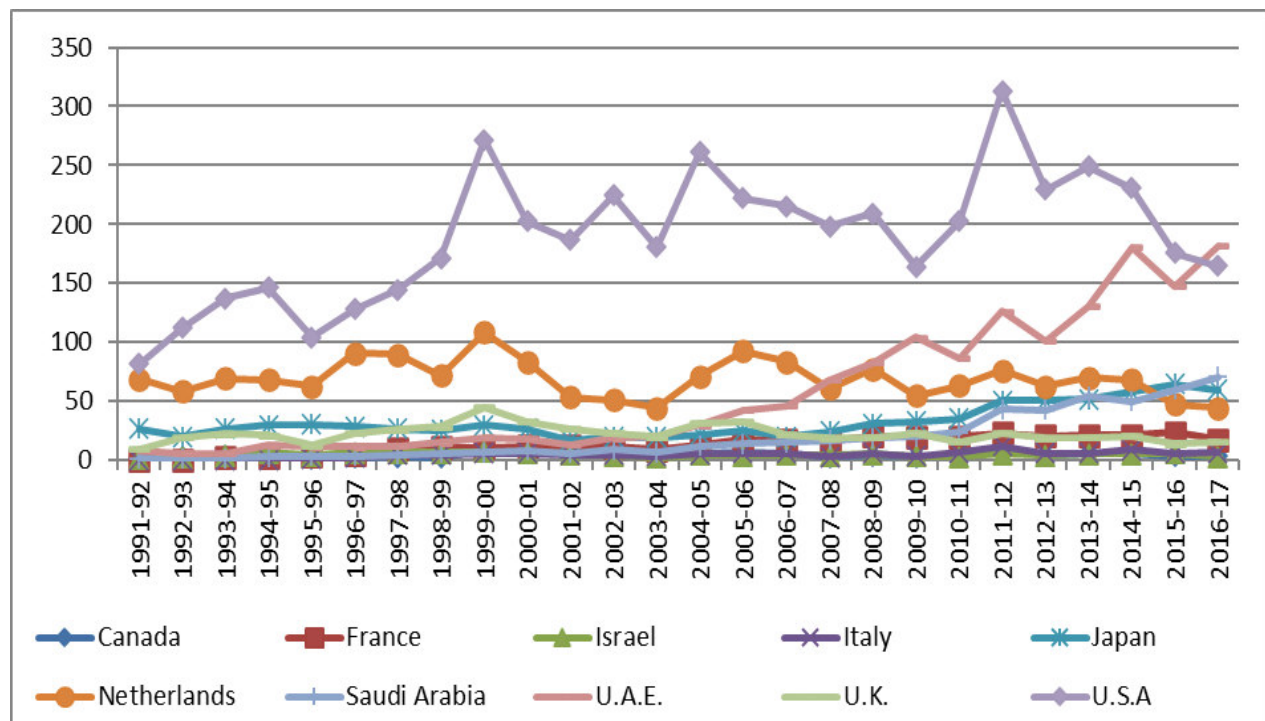


Fig. 6. Direction of India's Export of Cashew Products

Table 7. Direction of India's Export of Oil Meals Products In 1991-92 To 2016-17 (US\$ Million)

Countries	1991-92	1995-96	2000-01	2005-06	2010-11	2015-16	2016-17
Bangladesh	0.2	0.6	21.7	28.5	233.6	82.3	147.2
Indonesia	28.9	101.5	68.6	144	173.5	12.1	12.8
Japan	4.2	38	34.2	131.8	458	25.3	84.9
Pakistan	5.7	24.7	18.3	53.6	51.8	10.8	1.4
Russia	5.9	9.6	10.3	0.9	0	0.0	0.6
Singapore	39.8	122.2	75.7	72.2	33.4	1.5	3.3
Sri Lanka	3.9	11.5	10.1	22.5	51.6	12.6	21.1
Thailand	17.6	63.9	34.7	65.4	102.3	19.7	18.0
Vietnam	0	13.3	40.9	209.2	471.2	69.1	66.5
Others	256.1	231.8	87.1	235.9	746.2	316.4	444.9
Total	373.8	702.1	447.6	1101.1	2429.53	549.8	800.7

Source: Directorate General of Commercial Intelligence and Statistics

From the above Table 7, concerning the oil meals exporting countries, Bangladesh rose from \$0.2 million US dollar in 1991-92 to \$233.6 million US dollar in 2010-11 and decelerated to \$147.2 million US dollar in 2016-17. India's export to Japan accelerated from \$4.2 million US dollars in 1991-92 to \$131.8 million US dollars in 2005-06, then declined to \$25.3 million US dollars in 2015-16 and increased to \$84.9 million US dollars in 2016-17. India's export to Vietnam improved from \$0.0 million US dollar in 1991-92 to the US \$471.2 million US dollar in 2010-11 and declined to \$66.5 million US dollar in 2016-17. India's export to Russia increased from \$5.9 million US dollars in 1991-92 to \$10.3 million US dollars in 2000-01 finally suddenly fell to \$0.6 million US dollars in 2016-17 (figure 7).

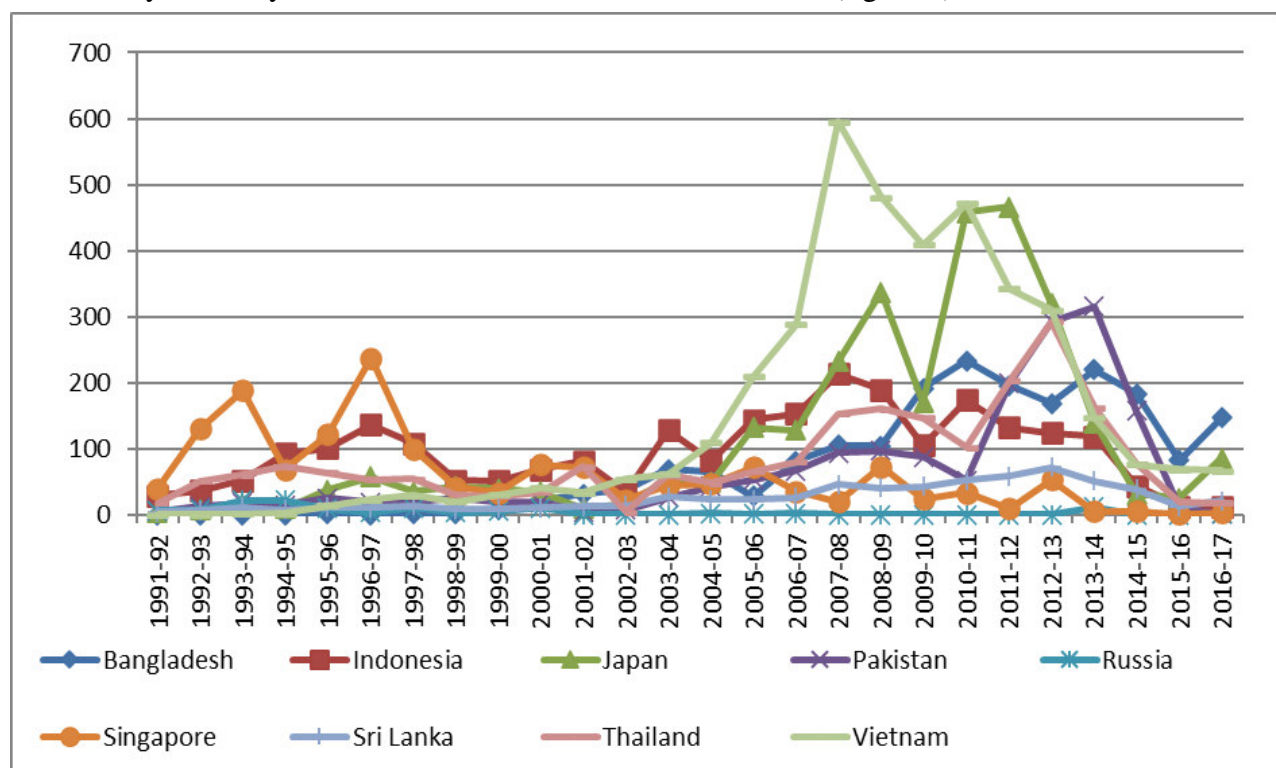


Fig. 7. Direction of India's Export of Oil Meals Products

Table 8. Direction of India's Export of Marine Products In 1991-92 To 2016-17 (US\$ Million)

Countries	1991-92	1995-96	2000-01	2005-06	2010-11	2015-16	2016-17
Hong Kong	20.3	22.1	24	41.4	132.9	82.5	78.5
Italy	34.2	53.8	29.4	48.1	119.3	129.7	163.6
Japan	263.3	416.5	509.9	256.1	335.5	403.8	390.1
China	0	13.7	115.8	150.6	141	149.8	138.2
Spain	43.8	46.6	44.6	116.5	171.3	184.7	241.1
South Korea	11.4	85.1	46	137.2	107.9	0	0
Thailand	4.8	15.7	28.5	25.7	102	126.8	225.6
UAE.	17.8	101	71.2	55.7	67.1	139.2	168.5
The UK.	37.9	54.7	60.9	79	78.9	135.0	148.9
U.S.A	62.1	98.5	239	351.4	399	1324.3	1773.0
Others	101	181.2	235.8	454	855.7	2033.3	2521.3
Total	585.2	1010.8	1393.8	1589.2	2615.55	4768.6	5918.1

Source: Directorate General of Commercial Intelligence and Statistics

Table 8 gives an insight into the marine exporting countries; USA amplified from \$62.1 million US dollar in 1991-92 to \$ 399 million US dollar in 2010-11 and to \$1773 million US dollar in 2016-17. India's export to Japan increased from \$263.3 million US dollars in 1991-92 to \$509.9 million US dollars in 2010-11 and decelerated to \$390.1 million US dollars in 2016-17. India's export to Spain went up from \$43.8 million US dollars in 1991-92 to \$116.5 million US dollars in 2005-06 and \$241.1 million US dollars in 2016-17. India's export to South Korea improved from \$11.4 million US dollar in 1991-92 to \$85.1 million US dollar in 1995-96 and to \$137.2 million US dollar in 2005-06 finally decelerated to \$0.0 million US dollar in 2016-17 (figure 8).

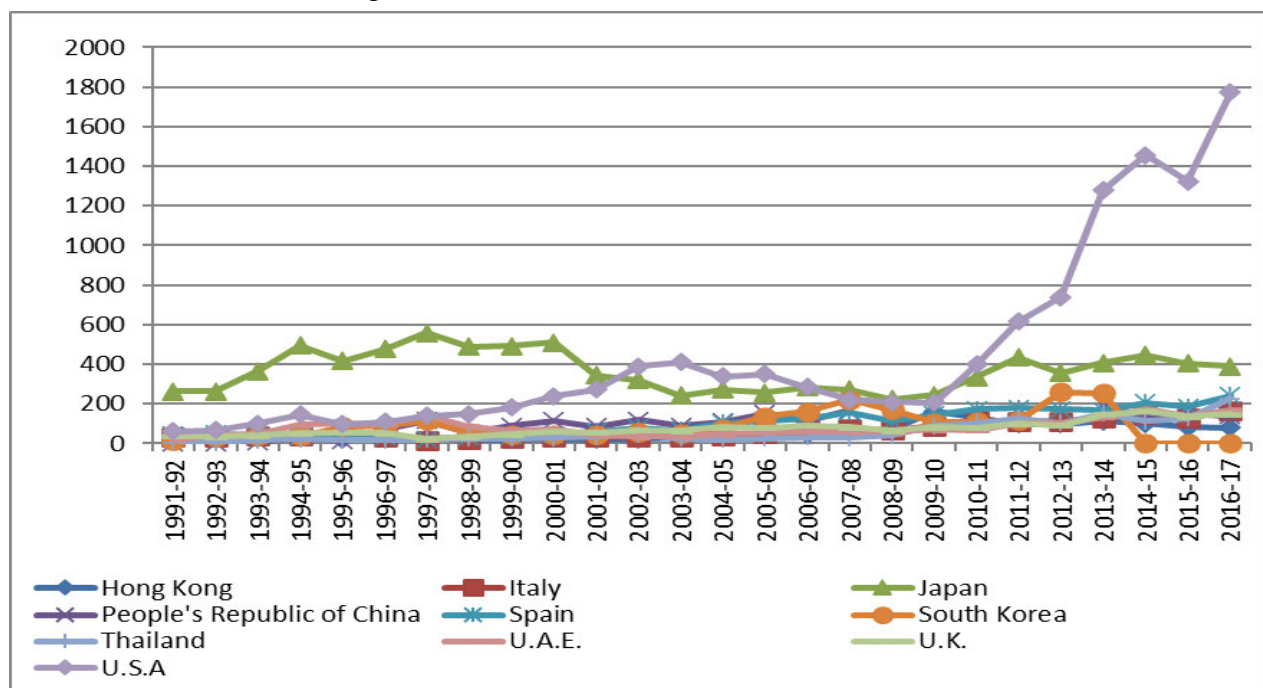


Fig. 8. Direction of India's Export of Marine Products

V. MAJOR FINDINGS

- Tea products exporting countries, India's export to Russia had the highest export value of \$108.9 million US dollar, Iran had the second-highest export value of \$99.2 million US dollar [58]-[63]. The third place secured by the United States of America, which had the export value of \$69.6 million US dollar during 2016-17.
- Coffee products exporting countries, India's export to Italy had the highest export value of \$176.8 million US dollar, Germany had the second-highest export value of \$80.7 million US dollar in 2016-17. The third place was secured by Russia, which had an export value of \$71.4 million US dollars during 2016-17 [64]-[67].
- Rice products exporting countries, India's export to Saudi Arabia had the highest export value of \$736.3 million US dollar, UAE had the second-highest export value of \$629 million US dollar. Kuwait had the third-highest export value of \$168.7 million US dollars during 2016-17 [68]-[130].
- Tobacco exporting countries, Belgium had the highest export value of \$190.2 million US dollar, UAE had the second-highest export value of \$131.9 million US dollar. The third place was secured by Saudi Arabia, which had an export value of \$36.5 million US dollars during 2016-17 [130-167].
- Spices exporting countries, India's export to the USA had the highest export value of \$444.2 million US dollar, UK had the second-highest export value of \$116.6 million US dollar, Bangladesh had the third-highest export value of \$109.5 million US dollar during 2016-17 [168-189].
- Cashew exporting countries, India's export to UAE had the highest export value of \$181.8 million US dollar, USA had the second-highest export value of \$164.4 million US dollar. The third-place secured by Saudi Arabia, which had an export value of \$70.7 million US dollar during 2016-17 [190-199].
- Oil meals exporting countries India's export to Bangladesh had the highest export value of \$147.2 million US dollar, Japan had the second-highest export value of \$84.9 million US dollar, Vietnam had the third-highest export value of \$66.5 million US dollar during 2016-17.
- Marine exporting countries, India's export to the USA had the highest export value of \$1773 million US dollar, and Japan had the second-highest export value of \$390.1 million US dollar, the third-place secured by Spain, which had the export value of \$241.1 million US dollar during 2016-17.

Conflicts of Interest: The authors declare that they have no conflicts of interest to report regarding the present study.

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