

EXPORT PERFORMANCE OF JAGGERY FROM INDIA

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1.1 INTRODUCTION

Agriculture is known for its importance in India. India's agricultural sector is so popularly called as "Primary" sector and it is contributing 13.7 per cent of GDP. (Himami 2014) and in the year 2018, it has contributed up to 17 – 18 per cent (financial express.com). According to the speech delivered by Mr. Arun jaitley on the union budget 2018, Indian agricultural sector employs more than 50 per cent of work force in India and the India government has spent crores and crores of rupees for its development. The total agricultural exports of India was 16.45 per cent in the financial year 2010 – 18 and from April 2018 to February 2019, the total agricultural exports was up to 34.31 billion of US\$. (www.lbef.org). According to the statistics of APEDA (Agricultural and processed food products export development authority) the exports to USA was around 396.44 million US dollars.

The major products exported were accounted to rice, fruits, wheat, vegetables, maize, dairy products and pulses. According to the central statistics office (CSO) and Ministry of statistics and programme implementation on 31.05.2017, agriculture and allied sectors contributed approximately 17.4 percent of India's gross value added of agriculture was 17.4 per cent during 2016 – 17. The GVA of agriculture and allied sectors contribution was 18.6 per cent in the year 2013 – 14, 18 per cent in the year 2014 – 15, 17.5 per cent in the year 2015 – 16 and 17.4 per cent in the year 2016 – 17. Indian government has provided 6000 crores as agricultural credit in the year 2013 – 14, 6000 crores in the year 2014 -15, 13000 crores in the year 2015 – 16 and 13397, 13 crores in the year 2016 – 17 and 10233 crores (up to 2011 – 2017) in the year 2017 – 18 for the development of agricultural (www.agricrop.gov.in).

1.2 NEED FOR THE STUDY

Jaggery is considered as an important food item in India kitchens and its use is very extensive. It is used as direct food, mixed in tea, coffee and milk as a sweetening agent. The jaggery is considered to be an ecofriendly nutritive sweetener (shodhganga.inflibnet.ac.in). It is believed that in a 100 grams of jaggery about 383 calories of energy is delivered and jaggery is proved to be superior product in terms of vitamin contents and medicinal value (Bangali and Singh, 1993). India is the largest producer and consumer of jaggery. Out of the total world population more than 70 per cent is produced in India (www.omicsonline.org). According to the statistics provided by APEDA, the jaggery and confectionery exports by quantity was 7509401 kg and the value realized through it was 71.86 crores (agriexchange.apeda.gov.in). The top five countries importing jaggery during the year 2017 was USA, Indonesia, Germany, United Arab emirates, China republic. The percentage share of import was 4%, 4%, 4%, 11% and 8% respectively. India has exported jaggery to various countries and the value realized during 2013 – 14 was 188 million US\$, 190

million US\$ in the year 2014 – 15, 197 million US\$ in the year 2015 – 16 and 219, 214 million in the years of 2016 -17, 2017 – 18 respectively. (www.agriexchange.apeda.gov.in). Thus the exports of jaggery finds more importance in the recent years.

1.3 OBJECTIVE OF THE STUDY

- ❖ To analyze the export performance of jaggery during 2001 – 2002 to 2017 – 2018.
- ❖ To project the future export performance of jaggery for the years of 2018 – 19 to 2027 – 28.

1.4 STATISTICAL TOOLS USED

For the purpose of analysis method of least squares is used.

1.5 ANALYSIS AND INTERPRETATION

TABLE 1: TREND ANALYSIS FOR THE PRODUCT OF JAGGERY AND CONFECTIONARY EXPORT FROM INDIA

YEAR		Export value RS (in Crores)				
	X	Y	X ²	XY	Y _t (Y=a+bΣx) a=-52 & b=82	SF(Y-Y _t)
2001 - 02	1	436.49	1	436.49	30.00	406.49
2002 - 03	2	212.97	4	425.94	112.00	100.97
2003 - 04	3	331.48	9	994.44	194.00	137.48
2004 - 05	4	86.53	16	346.12	276.00	-189.47
2005 - 06	5	161.32	25	806.60	358.00	-196.68
2006 - 07	6	223.82	36	1342.92	440.00	-216.18
2007 - 08	7	520.64	49	3644.48	522.00	-1.36
2008 - 09	8	803.57	64	6428.56	604.00	199.57
2009 - 10	9	427.76	81	3849.84	686.00	-258.24
2010 - 11	10	323	100	3230.00	768.00	-445.00
2011 - 12	11	764.22	121	8406.42	850.00	-85.78
2012 - 13	12	917.6	144	11011.20	932.00	-14.40
2013 - 14	13	1136.88	169	14779.44	1014.00	122.88
2014 - 15	14	1161.81	196	16265.34	1096.00	65.81
2015 - 16	15	1290.27	225	19354.05	1178.00	112.27
2016 - 17	16	1467.94	256	23487.04	1260.00	207.94
2017 - 18	17	1380.35	289	23465.95	1342.00	38.35
TOTAL	153	11646.7	1785	138274.83		

CHART 1: TREND ANALYSIS FOR THE PRODUCT OF JAGGERY AND CONFECTIONARY EXPORT FROM INDIA

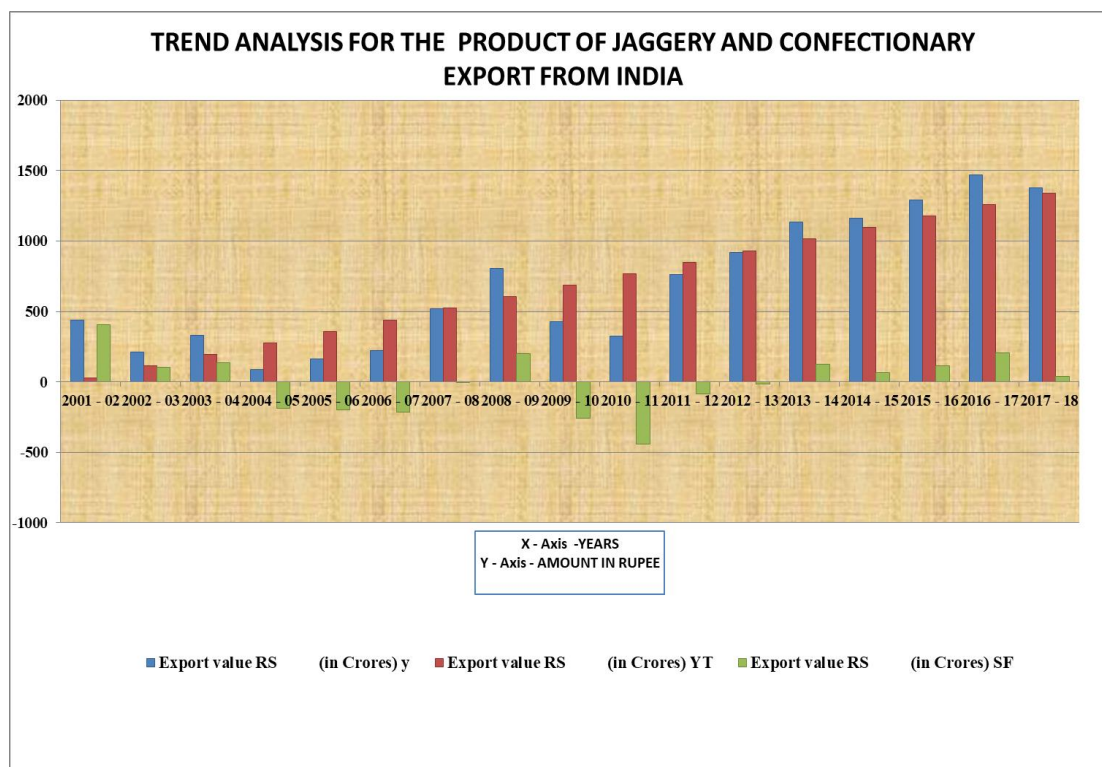
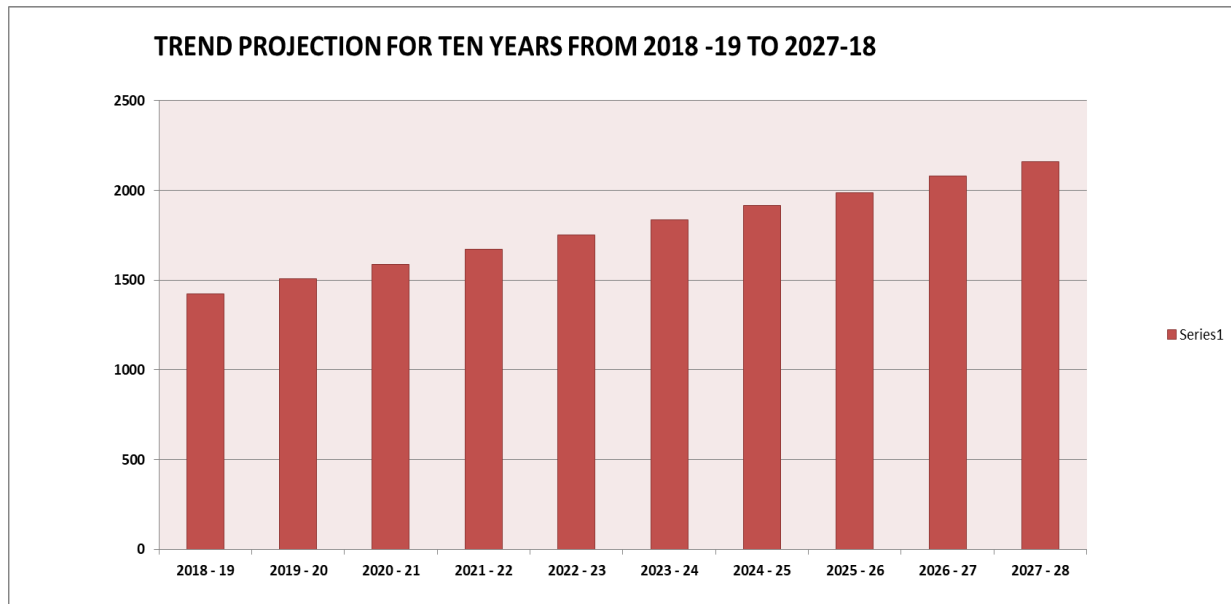


TABLE 2: TREND PROJECTION FOR TEN YEARS FROM 2018 -19 TO 2027-18

2018 - 19	18	1424				
2019 - 20	19	1506				
2020 - 21	20	1588				
2021 - 22	21	1670				
2022 - 23	22	1752				
2023 - 24	23	1834				
2024 - 25	24	1916				
2025 - 26	25	1988				
2026 - 27	26	2080				
2027 - 28	27	2162				

CHART 2: TREND PROJECTION FOR TEN YEARS FROM 2018 -19 TO 2027-18

1.6 FINDINGS OF THE STUDY

The exports of jaggery during 2001 – 02 to 2003 – 04 was 436.49, 212.97, 331.48 crores respectively. But in the years of 2004 – 05, 2005 – 06, 2006 – 07, was 86.53, 161.32, 223.82 crores, it was very less compared to the previous years in the later part of 2007 – 08, 2008 – 09, 2009 – 10 was 520.64, 803.57, 427.16 respectively. In the years of 2010 – 11, 2011 – 12, 2012 – 13 was 323, 764.22, 917.6 respectively. In the year 2010 – 11 was 323 crores which was as the same during 2003 – 04. But after 2013 – 14 the export of jaggery and confectionery was very high contributing 1136.38 crores in the year 2013 – 14, 1161.81 crores in the year 2014 – 15, 1290.27 crores in the year 2015 – 16, 1467.94 crores in the year 2016 – 17 and 1380.35 crores in the year 2017 – 18.

When the future exports were projected it shows a steady increase over the years of 2018 – 19 to 2027 – 28.