# INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, ECONOMICS & MANAGEMENT



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**OBJECTIVES** 

**HYPOTHESES** 

RESEARCH METHODOLOGY

**RESULTS & DISCUSSION** 

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#### THE CURRENT SCENARIO OF GOLDEN FIBRE: A SPECIAL STUDY ON JUTE IN THE CONTEXT OF INDIA

#### RUSHA SARKAR RESEARCH SCHOLAR REGIONAL AND ECONOMIC PLANNING BARKATULLAH VISHWAVIDYALAYA BHOPAL

#### **ABSTRACT**

Jute, the Golden Fibre occupies an important place not in the economy of West Bengal but also in the National Economy of India through out years. Jute is the cheapest vegetable fibre procured from the skin of the plant's stem and second most important vegetable fibre after cotton for production, consumption and also for availability. Basically, Jute is 100% bio-degradable, natural, renewable and eco-friendly product. Jute was one of the commercial product under british commercialization policy. Jute is actually a export oriented product. Jute fibres are used for curtains, chair coverings, carpets, area rugs, hession cloth etc. Jute is used in paper making and also in manufacturing industry, textile industry etc. The paper discusses various importance of jute goods and jute plants. The paper discusses the production scenario of jute goods since 1995-96 to 2013-14 and I find out the estimated value, of production with the help of time-series analysis. The paper also discusses the domestic consumption scenario and exports of jute goods after reforms period and growth rates. The paper elaborates various problems faced by jute industry currently. Finally, I give some suggestions to improve the condition of the jute industries.

#### **KEYWORDS**

Bio-degradable, Renewable, Eco-friendly, Commercialization. Reforms period.

#### INTRODUCTION

Jute, the **Golden Fibre** is a long, soft, silky and shiny natural fibre occupies an important place not in the economy of West-Bengal but also in the national economy of India. It is estimated that the jute industry provides direct employment to 0.37 million workers in organized mills and supports the livelihood of around 4.0 million farm families in India. More of it, there are a large number of persons engaged in the trade of jute. India exports 216000 metric tons jute in 2013-14 and earns Rs. 1880.63 cores also. In fact jute is the cheapest vegetable fibre procured from the skin of the plant's stem and second most important vegetable fibre after cotton for various factors like uses global consumption, production, availability. Actually, jute is 100% bio-degradable, natural, renewable and eco-friendly product used for packaging, textiles, non-textile, construction and agricultural sector also.

#### **TYPES OF JUTE**

White jute (Corchorus Capsularis)- Ain-e Akbari by Abul Fazal in 1590 during the era of Akhbar explained that the poor villagers of India used to wear clothes made of jute Simple handlooms and hand spinning wheels were used by the weavers. Mostly Bengalies used ropes and twines made of white jute from very much earlier times for various purposes. In fact, cultivation of raw jute provides not only fibres but also stick which is used as fuel and building material by the farming community.

Tossa Jute (Corchorus Oligotorius)- India is Tossa Jute's top producer. It's fibre is softer, silkier and stronger than white jute. This Tossa Jute is used as an herb in Middle Eastern and African countries and is very popular in some Arab countries, Egypt, Jordon, Syria as a soup-based dish, or sometimes with meat or lentils. Actually it is high in protein, vitamin c, beta-carotene, calcium and iron. The climate of Ganges Delta and soil of Bengal is suitable for this golden fibre (Paat)

#### **BRIEF HISTORY ABOUT JUTE**

Jute has been used since ancient times globally. **Qiu-shiyu**, researcher of the Harbin Academy of Sciences and expert of History said that **Jews** used to take part in the work of designing "Jiaozi" which was made of coarse jute paper. Jute paper was also used by **Western Han Dynasty** (206 BC-220AD) in China In India, the British East India Company was the first trader of raw Jute during 19<sup>th</sup> century Dundee Jute mill in Scotland and the increase of the Dundee Jute industry was the result of production and export of raw jute from the Indian sub-continent. Thus the **commercialization of jute** which was one of the British

The first jute mill was established at Rishra in Calcutta in 1855 as there was an abundant supply of labour, ample, coal for power, shipping facility for international markets. By 1869, five mills were operating with 950 looms and the growth was rapid. By 1910, 30'685 looms exported more than a billion yards of cloth and over 450 million bags. After that the jute industry in India enjoyed even more remarkable expansion and rising to commanding leadership by 1939 with a total of 68'377 looms in Calcutta.

After the fall of British Empire in India during 1947 the jute industries of India have been fallen. After liberalization of Pakistan and Bangladesh, Bangladesh also sets up new industry and exports jute.

#### **REVIEW OF LITERATURE**

Review of literature in the forms of various research and books written on this particular subject is a very worthwhile endeavour before embarking on research in this field, as it would give us an idea regarding varied kinds of knowledge skills and insights already provided by other researchers. Following is a brief account of the same in this regard-

Short essay in the commercialization of Indian Agriculture by R Verma explained about the net result of the commercialization by the British on the Indian Farmers. What are the problems faced by jute textiles in India? by K Raja described about various problems faces by Indian Jute Industry. Problems of Jute Industry in India by Suraj Yadav explained about the major problems of Indian Jute Industries.

#### **OBJECTIVES**

It is the major part of any research because without any purpose the research is fruitless. So, I have some objectives for this research which are mentioned bellow-

- i) What is the importance of Jute?
- ii) Which are the various Regulatory organization in Jute Sector?
- iii) What is the production scenario of Jute goods after reforms period?
- iv) What is the domestic consumption scenario of jute goods after reforms period?
- v) How much jute goods exports from India after reforms period and what is their values?
- vi) What are the current problems faced by Jute Industries?
- vii) Give some suggestions to develop these industries.

#### **METHODOLOGY**

The analysis of the research paper is based on various statistical tools. The data are collected from office of the jute commissioner.

At first to calculate basic growth rate I use growth rate formula which is following-

Basic Growth Rate= Present value Past value x100

Past value

Secondly, to estimate the trend value of production I use Least square method of time series analysis.

The straight line trend is represented by the following equation

 $Y_c = a + bX$ 

Where, Y<sub>c</sub> is used to estimate

the values of Y

Y= dependent variable i.e. production

X= independent variable i.e. time

a= intercept of Y variable when X=0

b= slope of the line.

To determine the values of 'a' and 'b' in a linear equation by the least squares method we are required to solve the following equation-

 $\Sigma Y = Na + b\Sigma X$ 

 $\sum XY = a\sum X + b\sum X^2$ 

N represents the number of years.

#### THE IMPORTANCE OF JUTE

Actually, Jute is the second most important vegetable after cotton for various reasons like production, consumption, global uses and so an. So, the uses of jute and jute fibre and their importance are uncountable. Some of the importance are listed bellow-

- Row Jute is an important cash crop to the farmers.
- ii) Jute Stick is used as fuel and building material by the farming community.
- iii) Jute matting is used to prevent flood erosion.
- iv) Jute is used to make cloth and also sacks and coarse cloth.
- v) The fibres are used for used for curtains, chair coverings, carpets, area rugs, hessian cloth etc.
- vi) Jute is used also for paper-making
- vii) Jute is used for imitation silk.
- Jute was used in manufacturing industry as a construction fabric and in the sackings, carpets, wrapping fabrics etc. viii)
- Jute is used in the manufacture of a various numbers of fabrics like Hessian cloth, sacking, carpet backing cloth (CBC) and canvas. ix)
- x) Jute is used for packaging which is an eco-friendly substitute.
- xi) Diversified Jute products like espadrilles, soft sweaters, cardigans, floor coverings, home textiles, high performance technical textiles, Geotextiles, composites etc. are uses very much today's life.
- Jute is also used to make ghillie suits which are used as camouflage and resemble grasses or brush. xii)
- Jute plants and leaves are consumed as a vegetables in various countries India, Nigeria, North Western Uganda, Philippines etc. xiii)

#### **VARIOUS REGULATORY ORGANISATIONS IN JUTE SECTOR**

- Subordinate Office Under Ministry of Textiles
- Office of Jute commissioner i)
  - b) Advisory Boards under Ministry of Textiles
- i) Jute Advisory Board
  - Statutory Bodies Under Ministry of Textiles
- i) National Jute Board.
  - d) Public Sector undertakings under Ministry of Textiles
- i) Jute Corporation of India (JCI) Ltd. Kolkata.
- National Jute Manufactures Corporation Ltd. (NJMC), Kolkata. ii)
- Birds Jute & Exports Ltd. (BJEL), a subsidiary of NJMC. iii)
  - Other organizations supported by Ministry of Textiles in Jute Sector
- Indian Jute Industries Research Association (IJIRA), Kolkata i)
- ii) International Jute Study Group (IJSG)
- Institute of Jute Technology (IJT), Kolkata iii)
- Central Research Institute for Jute Allied Fibres (CRIJAF) iv)
- v)



TABLE-1: PRODUCTION SCENARIO OF JUTE GOODS AFTER REFORMS PERIOD (QTY: IN 000'M Tons)

| (APRIL / MARCH) | HESSIAN | SACKING | CBC  | OTHERS | TOTAL  |
|-----------------|---------|---------|------|--------|--------|
| 1995-96         | 413.9   | 676.3   | 30.5 | 5312.3 | 1433.0 |
| 1996-97         | 368.7   | 666.6   | 25.2 | 340.4  | 1400.9 |
| 1997-98         | 392.4   | 864.6   | 19.8 | 401.6  | 1678.4 |
| 1998-99         | 344.1   | 903.3   | 18.5 | 330.3  | 1596.2 |
| 1999-00         | 344.5   | 909.2   | 8.0  | 328.5  | 1590.2 |
| 2000-01         | 337.9   | 952.9   | 6.6  | 327.5  | 1624.9 |
| 2001-02         | 275.3   | 1034.3  | 5.0  | 286.2  | 1600.8 |
| 2002-03         | 338.3   | 1000.0  | 5.4  | 278.1  | 1621.8 |
| 2003-04         | 305.2   | 979.3   | 4.7  | 281.1  | 1571.3 |
| 2004-05         | 310.3   | 992.0   | 4.0  | 306.8  | 1613.1 |
| 2005-06         | 320.0   | 1007.5  | 6.2  | 248.5  | 1582.2 |
| 2006-07         | 250.3   | 874.7   | 2.9  | 228.4  | 1356.3 |
| 2007-08         | 350.3   | 1143.0  | 6.0  | 279.7  | 1776.0 |
| 2008-09         | 297.8   | 1071.4  | 4.5  | 260.0  | 1633.7 |
| 2009-10         | 206.5   | 921.6   | 2.4  | 192.6  | 1323.3 |
| 2010-11         | 244.4   | 1076.9  | 4.7  | 239.7  | 1565.7 |
| 2011-12         | 239.9   | 1165.1  | 3.6  | 173.8  | 1582.4 |
| 2012-13         | 210.0   | 1218.2  | 2.9  | 160.2  | 1591.3 |
| 2013-14         | 202.5   | 1150.4  | 3.3  | 171.5  | 1527.7 |
|                 | Hessian | Sacking | CBC  | Others | Total  |

#### Source: office of jute commissioner

From the table it is found easily the production scenario of jute goods after reforms period. (the period after 1991). The table shows the production since 1995-96 to 2013-14. The total production of jute goods in 1995-96 was 1433,000 Metric tons including Hessian, Sacking and CBC and total production of jute goods is 1527700 metric tons including Hessian, sacking, CBC in 2013-14. The production of jute goods downfall in various years like 1996-97, (1400900 metric tons), 1998-99 (1596200 metric tons), 1999-00 (1590200 metric tons), 2001-02 (1600800 metric tons), 2003-04 (1571300 metric tons) 2005-06 (1582200 metric tons), 2006-07 (1356300 metric tons) 2008-09 (1633700 metric tons), 2009-10 (1323300 metric tons), 2013-14 (1527700 metric tons). It is also shown in the following bar diagram-

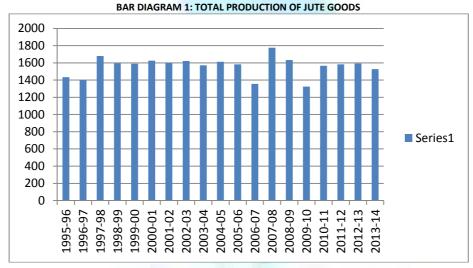


TABLE -2: DOMESTIC CONSUMPTION SCENARIO OF JUTE GOODS AFTER REFORMS PERIOD (QTY: IN 000'M Tons)

|     | STIC CONSONIT HOL | JOELIU IIIIO | 0. 30.2 00 | 000711121 | t Itel Oltino I E | illob (Q. |
|-----|-------------------|--------------|------------|-----------|-------------------|-----------|
|     | (APRIL / MARCH)   | HESSIAN      | SACKING    | CBC       | OTHERS            | TOTAL     |
|     | 1996-97           | 259.8        | 652.0      | 1.7       | 222.5             | 1336.0    |
|     | 1997-98           | 285.8        | 842.4      | 1.5       | 257.5             | 1387.2    |
|     | 1998-99           | 286.2        | 886.3      | 1.3       | 230.5             | 1404.3    |
|     | 1999-00           | 287.0        | 907.4      | 1.4       | 230.9             | 1426.7    |
|     | 2000-01           | 269.7        | 935.2      | 0.8       | 229.4             | 1435.1    |
|     | 2001-02           | 243.0        | 1021.4     | 0.9       | 195.5             | 1460.8    |
|     | 2002-03           | 251.3        | 954.5      | 1.9       | 167.7             | 1375.7    |
|     | 2003-04           | 253.3        | 910.0      | 0.3       | 179.3             | 1342.9    |
| 100 | 2004-05           | 244.8        | 972.4      | 0.5       | 176.5             | 1394.2    |
|     | 2005-06           | 237.6        | 974.2      | 0.7       | 165.3             | 1378.8    |
|     | 2006-07           | 209.1        | 854.4      | 0.5       | 152.7             | 1216.2    |
|     | 2007-08           | 271.4        | 1102.0     | 1.2       | 168.2             | 1542.7    |
|     | 2008-09           | 249.8        | 1043.0     | 0.3       | 142.5             | 1435.6    |
|     | 2009-10           | 182.6        | 879.8      | 1.2       | 141.9             | 1205.5    |
|     | 2010-11           | 182.3        | 1034.4     | 0.9       | 133.9             | 1351.5    |
|     | 2011-12           | 184.2        | 1079.7     | 0.1       | 117.9             | 1381.9    |
|     | 2012-13           | 165.8        | 1118.7     | 0.8       | 113.9             | 1399.0    |
|     | 2013-14           | 157.6        | 1043.1     | 0.4       | 126.4             | 1327.5    |
|     |                   | Hessian      | Sacking    | CBC       | Others            | Total     |

Source: office of jute commissioner

From this table we can easily understood the scenario of the domestic consumption of jute goods since 1996-97 to 2013-14. The table shows the consumption of hession, sacking, CBC and also others. The domestic consumption of jute goods in 1996-97 was 1336000 metric tones and in 2013-14 it is 1327500 metric tones. The table shows the fluctuation of domestic consumption of jute goods in various years. The downfall of domestic consumption of jute goods in various years. are such as in 2002-03 (1375700 metric tons), 2003-04. (1342900 metric tons), 2005-06 (1378800 metric tons), 2006-07 (1216200 metric tons) 2008-09 (1435600 metric tons), 2009-10 (1205500 metric tons), 2013-14 (1327500 metric tons). It is illustrated through the Bar diagram 2

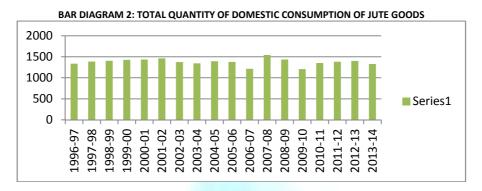
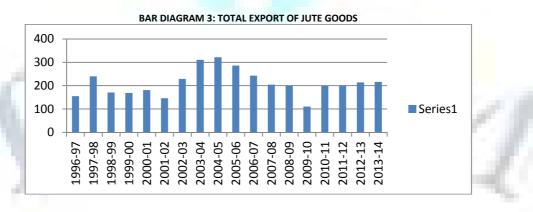


TABLE-3: JUTE GOODS EXPORTS FROM INDIA AFTER REFORMS PERIOD (QTY: IN 00 0' M. Tons VALUE: Rs / Crores)

| EXPORTS OF JUTE GOODS |         |         |      |        |       |         |
|-----------------------|---------|---------|------|--------|-------|---------|
| (APRIL / MARCH)       | HESSIAN | SACKING | CBC  | OTHERS | TOTAL | VALUE   |
| 1996-97               | 76.3    | 6.7     | 15.4 | 5.6    | 155.0 | 572.3   |
| 1997-98               | 103.5   | 17.9    | 13.5 | 9.7    | 240.0 | 694.7   |
| 1998-99               | 65.3    | 8.0     | 15.3 | 12.9   | 171.0 | 582.3   |
| 1999-00               | 57.4    | 5.6     | 6.3  | 15.8   | 169.0 | 571.5   |
| 2000-01               | 61.4    | 17.3    | 5.9  | 11.5   | 181.4 | 646.3   |
| 2001-02               | 36.8    | 12.2    | 4.4  | 13.7   | 146.1 | 567.5   |
| 2002-03               | 77.4    | 37.5    | 3.8  | 22.5   | 229.2 | 916.6   |
| 2003-04               | 157.1   | 33.4    | 5.2  | 24.1   | 310.4 | 1051.88 |
| 2004-05               | 153.7   | 31.2    | 1.5  | 15.0   | 321.8 | 1146.9  |
| 2005-06               | 171.6   | 33.2    | 0.9  | 11.0   | 285.8 | 1186.24 |
| 2006-07               | 122.2   | 31.6    | 0.1  | 10.6   | 242.8 | 1055.16 |
| 2007-08               | 67.8    | 30.0    | N.A  | 14.4   | 204.3 | 1143.57 |
| 2008-09               | 53.0    | 53.2    | N.A  | 10.7   | 199.8 | 1216.16 |
| 2009-10               | 31.3    | 26.5    | N.A  | 8.3    | 110.5 | 859'46  |
| 2010-11               | 53.9    | 40.6    | N.A  | 10.4   | 199.3 | 1363.29 |
| 2011-12               | 58.3    | 81.1    | N.A  | 8.2    | 201.1 | 1502.14 |
| 2012-13               | 51.2    | 103.8   | N.A  | 59.0   | 214.0 | 1598.05 |
| 2013-14               | 51.4    | 109.4   | N.A  | 55.3   | 216.0 | 1880.63 |
|                       | Hessian | Sacking | CBC  | Others | Total | VALUE   |

Source: office of jute commissioner

From this table we can calculate how much jute goods exports from India and what is their values since 1996-97 to 2013-14. The exports includes hessian, sacking, CBC and others. The table also shows that exports and their values are also fluctuated. 155000 metric tones jute goods were exported in 1996-97 and 216000 metric tones in 2013-14. The exports of jute goods reduces in 1998-99 (171000 metric tones), 1999-00 (169000 metric tones), 2001-02(146100 metric tons), 2005-06(285800 metric tons), 2006-07 (242800 metric tons), 2007-08 (204300 metric tons), 2008-09 (199800 metric tons), 2009-10 (110500 metric tons). The scenario is cleared through the following bar diagram also -



Here actually I want to find the growth rate of production of jute goods, domestic consumption of jute goods, exports of jute goods and also the trend value of the jute production-through statistical application.

At first to find out the growth rate of production of jute goods the basic growth rate formula is used. Actually basic growth rates are simply expressed as the difference between two values in time in terms of percentage of the first value.

Basic Growth rate=  $\frac{Present\ value - Past\ Value}{Present\ value} \times 100$ 

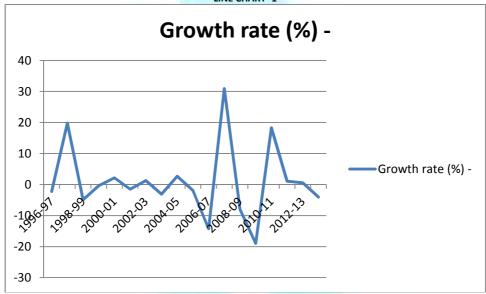
Past Value

TABLE -4: GROWTH RATE OF PRODUCTION OF JUTE GOODS (QTY= IN00'M Tons)

| April/March | Total Quantity | Growth rate (%) |
|-------------|----------------|-----------------|
| 1995-96     | 1433.0         | -               |
| 1996-97     | 1400.9         | -2.24           |
| 1997-98     | 1678.4         | 19.80           |
| 1998-99     | 1596.2         | -4.90           |
| 1999-00     | 1590.2         | -0.38           |
| 2000-01     | 1624.9         | 2.19            |
| 2001-02     | 1600.8         | -1.49           |
| 2002-03     | 1621.8         | 1.31            |
| 2003-04     | 1571.3         | -3.11           |
| 2004-05     | 1613.1         | 2.66            |
| 2005-06     | 1582-2         | -1.91           |
| 2006-07     | 1356.3         | -14.27          |
| 2007-08     | 1776.0         | 30.94           |
| 2008-09     | 1633.7         | -8.01           |
| 2009-10     | 1323.3         | -19.00          |
| 2010-11     | 1565.7         | 18.31           |
| 2011-12     | 1582.4         | 1.06            |
| 2012-13     | 1591.3         | 0.57            |
| 2013-14     | 1527.7         | -4.00           |

Source: Calculated from office of jute commissioner data

#### LINE CHART -1

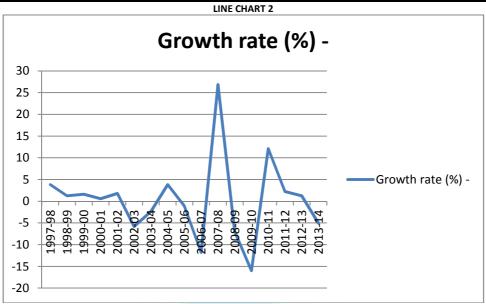


From the above table and chart we can easily find out that since 1995-96 to 2013-14 the highest growth rate of production of jute goods was in 2007-08 which was 30.94% and the lowest growth rate was in 2009-10 which was -19.00%

TABLE-5: GROWTH RATE OF DOMESTIC CONSUMPTION OF JUTE GOODS (QTY: In 000' M Tons)



Source: Calculated from data collected from Office of Jute Commissioner Data

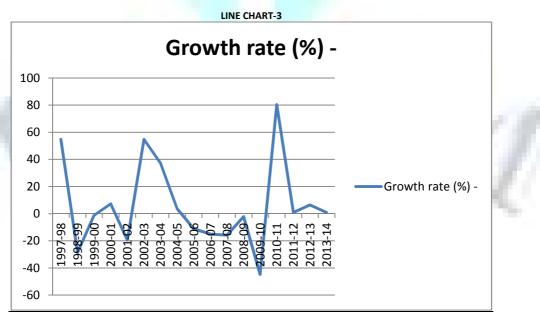


From the above table and line chart the scenario of domestic consumption of jute goods since 1996-97 to 2013-14 easily understood. Among these years the growth rate was highest in 2007-08 which was 26.84% and was lowest in 2009-10 and that was -16.02%

TABLE-6: GROWTH RATE IN THE EXPORT OF JUTE GOODS (QTY=In000'Tons.)

| April/March | Total Quantity | Growth rate (%) |
|-------------|----------------|-----------------|
| 1996-97     | 155.0          | -               |
| 1997-98     | 240.0          | 54.83           |
| 1998-99     | 171.0          | -28.75          |
| 1999-00     | 169.0          | -1.16           |
| 2000-01     | 181.4          | 7.33            |
| 2001-02     | 146.1          | -19.45          |
| 2002-03     | 226.2          | 54.82           |
| 2003-04     | 310.4          | 37.22           |
| 2004-05     | 321.8          | 3.67            |
| 2005-06     | 285.8          | -11.18          |
| 2006-07     | 242.8          | -15.04          |
| 2007-08     | 204.3          | -15.85          |
| 2008-09     | 199.8          | -2.20           |
| 2009-10     | 110.5          | -44.70          |
| 2010-11     | 199.3          | 80.36           |
| 2011-12     | 201.1          | 0.90            |
| 2012-13     | 214.0          | 6.41            |
| 2013-14     | 216.0          | 0.93            |

Source: Calculated from Office of Jute Commissioner Data



From table 6 and line chart 3 it is find out that exports growth rate for jute goods was highest in 2010-11 and that was 80.36% and lowest in 2009-10 and that was – 44.70%.

One of the most important tasks before economists and businessman these days is to make estimates for the future. So, I here also try to find out the **trend** values of production of jute goods because it helps in planning future operations.

To find out the trend values I use Least squares method of time series analysis. The straight line trend is represented by the equation

 $Y_c = a + bx$ 

Where Y<sub>c</sub> is used the designate the calculated values of Y which is a dependent variable. X is the independent variable, b represents the slope of the line and a is the intercept value of the Y variable when X=0

To determine the value of 'a' and 'b' we need to solve the following equation-

 $\sum Y=Na+b\sum X-----$  (i)

 $\sum XY = a\sum X + b\sum X^2 - \cdots$  (ii) N is the member of years.

TABLE-7: TREND VALUE OF PRODUCTION OF JUTE GOODS (Qtv- In 000'M Tons)

| BLE-7: TREND VALUE OF PRODUCTION OF JUTE GOODS (Qty-111 000 W1 10 |                  |                                    |  |  |  |
|---|------------------|------------------------------------|--|--|--|
| Years April/March   | Total Production | Trend values Y <sub>c</sub> – a+bx |  |  |  |
| 1995-96   | 1433.0           | 1557.53+0.40 (1) = 1557.93         |  |  |  |
| 1996-97   | 1400.9           | 1557.53+0.40 (2) =1558.33          |  |  |  |
| 1997-98   | 1678.4           | 1557.53+0.40 (3) = 1558.73         |  |  |  |
| 1998-99   | 1596.2           | 1557.53+0.40(4) = 1559.13          |  |  |  |
| 1999-00   | 1590.2           | 1557.53+0.40 (5) 1559.53           |  |  |  |
| 2000-01   | 1624.9           | 1557.53+0.40 (6) =1559.93          |  |  |  |
| 2001-02   | 1600.8           | 1557.53+0.40 (7) = 1560.33         |  |  |  |
| 2002-03   | 1621.8           | 1557.53+0.40 (8)= 1560.73          |  |  |  |
| 2003-04   | 1571.3           | 1557.53+0.40(9) = 1561.13          |  |  |  |
| 2004-05   | 1613.1           | 1557.53+0.40 (10)= 1561.53         |  |  |  |
| 2005-06   | 1582.2           | 1557.53+0.40 (11) = 1561.93        |  |  |  |
| 2006-07   | 1356.3           | 1557.53+0.40(12) = 1562.33         |  |  |  |
| 2007-08   | 1776.0           | 1557.53+0.40(13) = 1562.73         |  |  |  |
| 2008-09   | 1633.7           | 1557.53+0.40(14) = 1563.13         |  |  |  |
| 2009-10   | 1323.3           | 1557.53.+0.40(15) = 1563.53        |  |  |  |
| 2010-11   | 1565.7           | 1557.53+0.40(16) = 1563.93         |  |  |  |
| 2011-12   | 1582.4           | 1557.53+0.40(17) = 1564.33         |  |  |  |
| 2012-13   | 1591.3           | 1557.53+0.40(18) = 1564.73         |  |  |  |
| 2013-14   | 1527.7           | 1557.53+0.40 (19) = 1565.13        |  |  |  |
|   |                  |                                    |  |  |  |

Source: Calculated form office of jute commissioner data

After solve both (i) and (ii) equation for this data I find, that

a= 1557.53

and b = 0.40

So, the trend values are

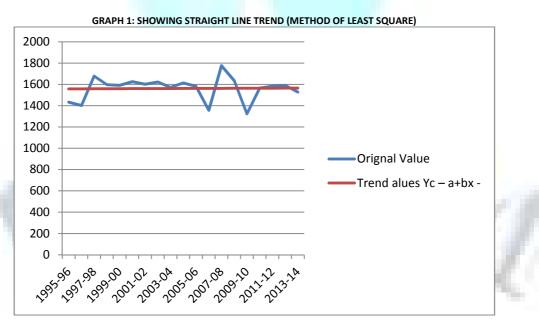
 $Y_c = 1557.53 + 0.40X$ 

From this trend value with the help of least square method one can easily find out the estimate value of coming year.

So, I also try to find out the estimate quantity of production of jute goods for (2014-15) and (2015-16)

Trend value of (2014-15) = 1557.53+0.40(20)=1565.53 (000'm tons)

Trend value of (2015-16)= 1557.53+0.40 (21) = 1565.93 (000' m tons)



#### THE CURRENT PROBLEMS FACED BY JUTE INDUSTRIES

- i) **Application of the Laws of Returns** As a result of the laws of diminishing returns which has universal applicability, the Indian jute industry and its production diminishes.
- ii) Lack of modernization of Mills and Industry:- As the mills are tool old and its all machineries faced various problems the production of jute goods diminishes.
- iii) Shortage of Raw Materials- After separation from Bangladesh India faced a major problem i.e., shortage of raw jute.
- iv) **High Cost of Production:** The jute industry which has unecominic units for the production suffers for the high cost of production because of high price of raw jute and unreliable supply of raw jute for the mills.

- v) Labour- intensive-technique:- Indian jute industry applies labour-intensive techniques even today. As a result the jute production of goods diminishes. "The continued dependence on an antiquated labour intensive technology has now turned 70 percent of the jute mills sick." (Gonguli, R, Economic Times, July 7, 1994)
- vi) Shortage of Power Supply:- Load-shedding creates a major problem for the jute industry
- vii) Substitute goods:- Plastic and synthetic goods which are substitute for jute goods creates problems for jute industry.
- viii) Loss of foreign Market:- Before our independence India has monopoly in raw jute and manufactures in foreign market. But newly started jute industry in Bangladesh has captured some of the markets of Indian jute goods.
- ix) Lack of proper information for jute farmers
- x) Lack of proper incentives to jute sector
- xi) Lack of promotion for jute mill workers.
- xii) Lack of Research in jute sector.

#### SOME SUGGESTIONS TO DEVELOP JUTE INDUSTRIES

- i) Modernization and Rationalization of jute Industries and Mills should be required properly.
- ii) **Compulsory use** of jute bags in food grains, sugar, cement, fertilizers is required.
- iii) Totally ban on synthetic and plastic bags which are harmful and not eco-friendly.
- iv) Use of e-learning and e-commerce for this industry.
- v) Increase incentives in jute sector.
- vi) To create various welfare schemes for the workers of mill and industries of this sector as well as for the farmers who produces raw jutes.
- vii) Reduces high cost of production.
- viii) To increase capital and buy new machineries for the mills and industries.
- ix) To create awareness of jute goods among the consumers.
- x) For increase foreign demand we should manufacture various jute diversified products as well as modern jute modified products.
- xi) To increase **Research** centers for the jute sector.

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