

# Manufacturing and Mining

## 3.1 Introduction

Manufacturing is the second largest sector of the economy accounting for 13.6 percent of Gross Domestic Product (GDP). This sector mainly comprises textile industry, engineering goods and industry, agro based industry, chemical industry and small & medium enterprises. This sector provides employment opportunities of 15.3 percent to the total labor force.

Large Scale Manufacturing (LSM) at 10.9 percent of GDP dominates the overall sector, accounting for 80 percent of the sectoral share followed by Small Scale Manufacturing, which accounts for 1.8 percent of total GDP. The third component of the sector is slaughtering and accounts for 0.9 percent of overall GDP.

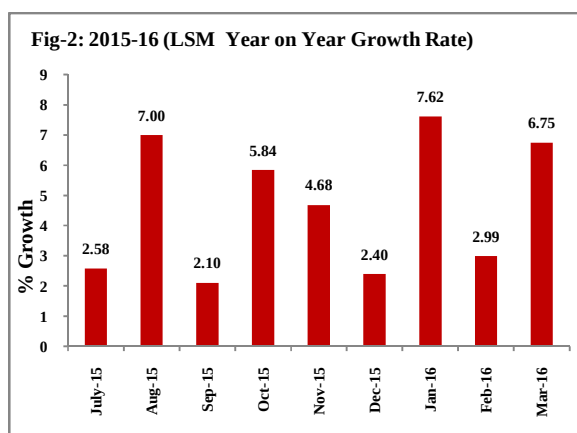
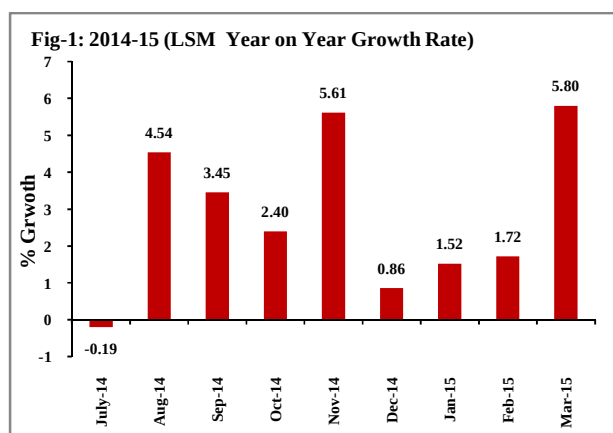
The growth of this sector is contingent on better availability of utility services, enabling environment, credit to private sector, Foreign Direct Investment (FDI), capital market gains etc. This sector suffered in the past due to non availability of the desired inputs for its growth. The major issue which hampered its growth was the power shortages. The present government has made focused efforts to resolve this issue and developed a road map to overcome the power crises on fast track and on a sustainable basis. As

a result, this sector started picking up its growth and contributed in overall economic growth.

The overall manufacturing sector continued to maintain its growth momentum with more vigor during the current fiscal year. Manufacturing sub component of industrial sector recorded an impressive growth of 5.0 percent against 3.9 percent of last year which helped overall industrial sector to improve by 6.8 percent against 4.8 percent last year.

The Large Scale Manufacturing (LSM) during July-March FY 2016 registered a growth of 4.70 percent as compared to 2.81 percent in the same period last year. On Year on Year (YoY), LSM grew by 6.75 percent in March 2016 compared to 5.80 percent of March 2015. The production data of Large Scale Manufacturing (LSM) received from the Oil Companies Advisory Committee (OCAC) comprising 11 items, Ministry of Industries and Production 36 items and Provincial Bureau of Statistics 65 items have contributed in LSM growth by 0.26 percent, 2.96 and 1.48 percent, respectively.

The Year on Year performance of LSM sector over corresponding period of last year is given in graph below.



## Pakistan Economic Survey 2015-16

The industry specific data shows that Automobiles recorded highest growth of 23.43 percent (compared to 17.06 percent last year), Fertilizers 15.92 percent (compared to 0.95 percent last year), Chemicals 10.01 percent (compared to 6.67 percent last year), Rubber Products 11.68 percent (compared to 1.88 percent last year), Leather products 12.18 percent (compared to 9.11 percent last year), Pharmaceuticals 7.21 percent (compared to 6.84 percent last year), Non Metallic mineral products 10.23 percent (compared to 2.71 percent last year), Food, Beverages & Tobacco 3.66 percent (compared to -0.93 percent last year), Coke & Petroleum Products 2.40 percent (compared to 5.47 percent last year) and Textile 0.62 percent (compared to 0.97 percent last year).

The other sectors that showed decline included Wood Product (58.03 percent), Engineering Products (17.64 percent), Paper and Board (2.90 percent), Electronics (9.98 percent) and Iron & Steel products (7.48 percent).

In March 2016, however, highest increased was recorded in Non metallic mineral product 20.61 percent, Food, Beverages & Tobacco 17.77 percent, Fertilizers 14.88 percent, Rubber product 12.00 percent, Paper & Board 9.26 percent, Pharmaceuticals 8.54 percent and Chemical 0.75 percent.

Group wise growth and points contribution of LSM for the period of July-March FY 2015 versus July-March FY 2016 are given in the following Table-3.1.

**Table 3.1: Group wise growth and Point Contribution of LSM during the period of Jul-March 2015-16 Vs Jul-March 2014-15**

| S.No. | Groups                        | Weights | % Change   |         | % Point Contribution |         |
|-------|-------------------------------|---------|------------|---------|----------------------|---------|
|       |                               |         | July-March |         | July-March           |         |
|       |                               |         | 2014-15    | 2015-16 | 2014-15              | 2015-16 |
| 1     | Textile                       | 20.915  | 0.97       | 0.62    | 0.20                 | 0.13    |
| 2     | Food, Beverages & Tobacco     | 12.370  | -0.93      | 3.66    | -0.12                | 0.45    |
| 3     | Coke & Petroleum Products     | 5.514   | 5.47       | 2.40    | 0.30                 | 0.13    |
| 4     | Pharmaceuticals               | 3.620   | 6.84       | 7.21    | 0.25                 | 0.26    |
| 5     | Chemicals                     | 1.717   | 6.67       | 10.01   | 0.11                 | 0.17    |
| 6     | Automobiles                   | 4.613   | 17.06      | 23.43   | 0.79                 | 1.08    |
| 7     | Iron & Steel Products         | 5.392   | 35.63      | -7.48   | 1.92                 | -0.40   |
| 8     | Fertilizers                   | 4.441   | 0.95       | 15.92   | 0.04                 | 0.71    |
| 9     | Electronics                   | 1.963   | 8.51       | -9.98   | 0.17                 | -0.20   |
| 10    | Leather Products              | 0.859   | 9.11       | 12.18   | 0.08                 | 0.10    |
| 11    | Paper & Board                 | 2.314   | -5.74      | -2.90   | -0.13                | -0.07   |
| 12    | Engineering Products          | 0.400   | -10.74     | -17.64  | -0.04                | -0.07   |
| 13    | Rubber Products               | 0.262   | 1.88       | 11.68   | 0.00                 | 0.03    |
| 14    | Non-Metallic Mineral Products | 5.364   | 2.71       | 10.23   | 0.15                 | 0.55    |
| 15    | Wood Products                 | 0.588   | -78.46     | -58.03  | -0.46                | -0.34   |

Source: Pakistan Bureau of Statistics (PBS)

LSM broad based growth is achieved despite a drag from delay growth came from sugar and closure of Pakistan Steel Mills (PSM) since July 2015 when Sui Southern Gas Company (SSGC) suspended the gas supply due to non-payment of bills. The sugar industry started giving positive growth results in March 2016 at 32.71 percent compared to 18.75 percent in March 2015 after witnessing a negative growth during last month. The decline in global commodity prices benefited many industries such as food, automobile, cement

and chemical and in addition construction activities, Punjab government Apna Rozgar Scheme and improved availability of gas supplies facilitated fertilizer and cement sector. The LSM sector will further gain momentum from the development work on projects under China-Pakistan Economic Corridor (CPEC) going forward. The Overseas Investors Chamber of Commerce and Industry (OICCI) in its latest business survey stated that improvements in energy management and law and order have led to

an upturn in confidence of the business community as the Business Confidence Index (BCI) — Wave 12 — touched a record level of 36 percent, showing an improvement of 14 percent over the previous survey result announced in November 2015.

The LSM sector also benefitted from the continued improvement in the supply of electricity and gas coupled with expansion in credit to private sector. The expansion in credit to private sector remained high due to lower cost of credit and better market conditions. A welcome development is the rise in the net credit disbursement for fixed investment. It appeared that many firms are expanding their operations by availing fixed investment loan. Credit for fixed investment reached to Rs. 150.147 billion (increased by 78 percent) during July-March, FY 2016 against Rs. 84.365 billion in comparable period of FY 2015. The expansion was particularly notable in sugar, fertilizer, pharmaceutical, telecommunication, road transport, construction of roads, manufacturing of electricity distribution, machinery, cement, chemical sectors etc.

The Automobile sector recorded a growth of 23.43 percent during July-March FY2016 compared to 17.06 percent in same period last year. The growth is mainly arrived from LCVs production which increased by 68.53 percent, Buses 81.95 percent, Jeeps & cars 29.73 percent, Trucks 41.68 percent and Motor cycles 17.22 percent. The only decline witnessed in the production of tractors which declined by 38.63 percent. The improvement in the automobile sector is due to stable exchange rate, continuation of concessional Apna Rozgar scheme launched by the Punjab government, appetite of new model and focus of commercial banks on auto financing. The demand for commercial vehicles particularly trucks will be further enhanced under CPEC.

The improvement in gas supply to fertilizer sector led to a strong growth of 15.92 percent during July-March FY2016. The growth of Chemical sector recorded at 10.01 percent during the period under review mainly arrived from Sulphuric acid which recorded growth of 25.75 percent, Paints &

Varnishes(S) 21.18 percent and Caustic soda 26.85 percent. The exceptionally well performance mainly arrived due to construction activities and start of commercial operation by caustic soda producing unit.

In Pharmaceuticals groups, Capsules, Injections, Liquids/ Syrups and Tablets recorded a growth of 7.59 percent, 10.66 percent, 10.68 percent and 3.66 percent, respectively. In Non metallic mineral products, cement managed to grow by 10.41 percent during July-March FY 2016 and 7.7 percent in March 2016 over February 2016. The steep fall of global coal prices helped cement manufacturers. In addition Cement industry also benefitted through vibrant construction activities and reduction in policy rate. Growth in construction allied industries stems primarily from consistently rising public spending. The PSDP increased to Rs. 700 billion in FY 2016 compared to Rs. 350 billion in FY 2013 showing a growth of 100 percent, which helped projects related to infrastructure, power generation and development of railways, construction and allied industries. Coke and Petroleum products growth mainly arrived from the production of LPG 17.27 percent, Lubricating oil 16.85 percent, Motor sprits 2.23 percent and Jet oil 6.96 percent.

The Food, Beverages & Tobacco remained under stress mainly due to delay in cane crushing during this season. However, some items showed positive growth during July-March FY2016 which included tea blended which grew by 13.83 percent, soft drinks 4.14 percent, cooking oil 8.44 percent, vegetable ghee 6.12 percent, Sugar 2.85 percent and juices, syrups & squashes 2.93 percent. However, the sugar recorded growth on Year on Year (YoY) basis at 32.71 percent in March 2016 and Month on Month (MoM) basis 23.1 percent, which augur well for Food, Beverages & Tobacco group during the remaining months of the current fiscal year. The performance of Textile sector having highest weight in Quantum Index of Manufacturing (QIM) remained subdued on account of lackluster demand due to slowdown in economic growth in trading partners more specifically, China along with decline in the domestic cotton production.

## Pakistan Economic Survey 2015-16

However, to maintain the supply chain for textile sector, the import of raw cotton during July-March FY 2016 remained high at 345.363 thousand tons compare to 97.354 thousand tons during the same period of last year showing a growth of 254.75 percent in quantity and in value

terms 161.85 percent (US \$ 588.236 million against US \$ 224.647 million).

Item wise review of production of selected items of Large Scale Manufacturing during July-March FY 2016 is given in Table-3.2.

**Table-3.2 : Production of selected industrial items of Large Scale Manufacturing**

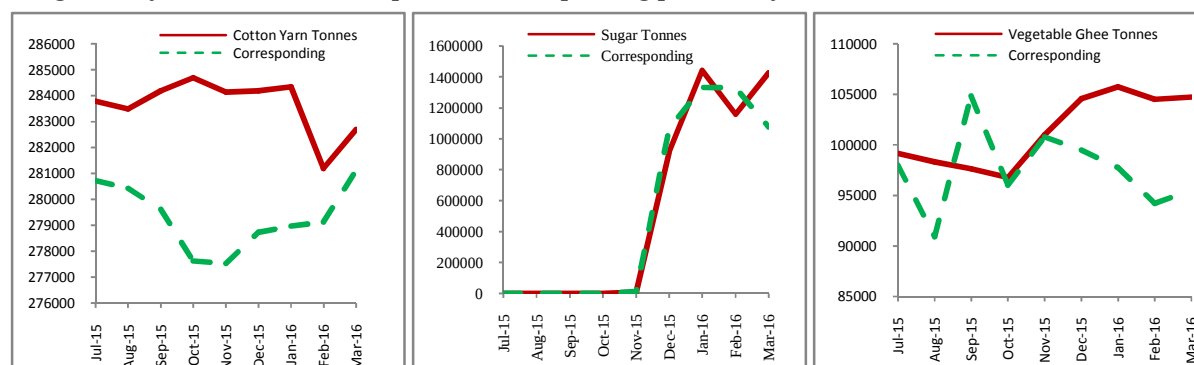
| S.No. | Items                  | Unit           | Weight | July-March |            | % Change (Jul-Mar) 2015-16 | % Point Contribution (Jul-Mar) 2015-16 |
|-------|------------------------|----------------|--------|------------|------------|----------------------------|----------------------------------------|
|       |                        |                |        | 2014-15    | 2015-16    |                            |                                        |
| 1     | Deep Freezers          | (Nos.)         | 0.162  | 56,294     | 47,987     | -14.76                     | -0.02                                  |
| 2     | Jeep & Cars            | (Nos.)         | 2.818  | 106,135    | 137,688    | 29.73                      | 0.84                                   |
| 3     | Refrigerators          | (Nos.)         | 0.239  | 1,003,795  | 968,418    | -3.52                      | -0.01                                  |
| 4     | Upper Leather          | (000 sq.m.)    | 0.392  | 18,371     | 18,898     | 2.87                       | 0.01                                   |
| 5     | Cement                 | (000 tones)    | 5.299  | 23,459     | 25,900     | 10.41                      | 0.55                                   |
| 6     | Liquids/Syrups         | (000 Liters)   | 1.136  | 73,424     | 81,264     | 10.68                      | 0.12                                   |
| 7     | Phosphatic Fertilizer  | (N tones)      | 0.400  | 442,164    | 499,412    | 12.95                      | 0.05                                   |
| 8     | Tablets                | (000 Nos)      | 1.914  | 19,720,173 | 20,441,036 | 3.66                       | 0.07                                   |
| 9     | Cooking Oil            | (Tones)        | 2.227  | 268,679    | 291,361    | 8.44                       | 0.19                                   |
| 10    | Nitrogenous Fertilizer | ( N tones)     | 4.041  | 1,940,098  | 2,256,438  | 16.31                      | 0.66                                   |
| 11    | Cotton Cloth           | (000 sq.m.)    | 7.186  | 776,900    | 780,233    | 0.43                       | 0.03                                   |
| 12    | Vegetable Ghee         | (000 tones)    | 1.144  | 877,467    | 931,179    | 6.12                       | 0.07                                   |
| 13    | Cotton Yarn            | ( tones)       | 12.965 | 2,513,821  | 2,552,654  | 1.54                       | 0.20                                   |
| 14    | Sugar                  | ( tones)       | 3.545  | 4,812,408  | 4,949,653  | 2.85                       | 0.10                                   |
| 15    | Tea Blended            | (tones)        | 0.382  | 92,129     | 104,871    | 13.83                      | 0.05                                   |
| 16    | Petroleum products     | (000 Liters)   | 5.410  | 10,317,669 | 10,763,101 | 4.32                       | 0.23                                   |
| 17    | Cigarettes             | (Million Nos.) | 2.125  | 46,790     | 42,892     | -8.33                      | -0.18                                  |
| 18    | Coke                   | (Tones)        | 0.104  | 190,794    | 57,394     | -69.92                     | -0.07                                  |
| 19    | Pig iron               | ( Tones)       | 1.584  | 195,741    | 1,509      | -99.23                     | -1.57                                  |

Source: Pakistan Bureau of Statistics (PBS)

The production trends of items in Large Scale Manufacturing (LSM) sector during July-March

FY2016 compared to same period of last year is given below.

**Fig-3: Monthly Production trends of major Large Scale Manufacturing (LSM) sector items during the July-March 2015-16 compared to corresponding period July-March 2014-15**



**Fig-3: Monthly Production trends of major Large Scale Manufacturing (LSM) sector items during the July-March 2015-16 compared to corresponding period July-March 2014-15**



The macroeconomic strategy achieved during the year along with improved security situation helped many industry to perform better.

### 3.2 Textile Industry

Textile is the most important manufacturing sector of Pakistan and has the longest production chain, with inherent potential for value addition at each stage of processing, from cotton to ginning, spinning, fabric, dyeing and finishing, made-ups

and garments. The sector contributes nearly one-fourth industrial value-added, provides employment to about 40 percent of industrial labor force, and consumes about 40 percent of banking credit. Barring seasonal and cyclical fluctuations, textiles products have maintained the share of about 60 percent in national exports. The export performance during the period under review is given in the Table 3.3.

**Table 3.3: Export of Pakistan Textiles** (US\$ Millions)

|                          | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16<br>(Jul-Mar) |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|----------------------|
| Cotton & Cotton textiles | 9,308   | 9,754   | 13,147  | 11,778  | 12,652  | 13,143  | 12,992  | 9,066                |
| Synthetic textiles       | 319     | 446     | 608     | 546     | 406     | 383     | 331     | 222                  |
| Wool & woolen textiles   | 145     | 137     | 132     | 121     | 122     | 125     | 119     | 74                   |
| Total textiles           | 9,772   | 10,337  | 13,887  | 12,445  | 13,180  | 13,857  | 13,590  | 9,438                |
| Total exports            | 17,782  | 19,290  | 24,810  | 23,624  | 24,515  | 25,131  | 23,885  | 15,606               |
| Textile as % of Exports  | 55      | 54      | 56      | 53      | 54      | 55      | 57      | 60                   |

Source: Ministry of Textile

**3.2.1 Ancillary Textile Industry**

The ancillary textile industry includes cotton spinning, cotton cloth, cotton yarn, cotton fabric, fabric processing, home textiles, towels, hosiery and knitwear and readymade garments. These components are being produced both in the large scale organized sector as well as in the unorganized cottage / small and medium units. The performance of these various ancillary textile industries is illustrated as under:-

**i. Cotton Spinning Sector**

The Spinning Sector is the backbone in the ranking of textile production. At present, as per record of Textile Commission Organization (TCO), it is comprised of 523 textile units (40 composite units and 483 spinning units) with 13.269 million spindles and 185 thousand rotors

installed and 11.083 million spindles and 140 thousands rotors in operation with capacity utilization of 84 percent and 76 percent respectively, during July –Mar FY 2016.

**ii. Cloth Sector**

There are three different sub-sectors in weaving viz, Integrated, Independent Weaving Units, and Power loom units. There is investment in the shuttle-less looms both in integrated and independent weaving sector. This trend is likely to intensify in the country. The power loom sector modernized and registered a phenomenal growth over the last two decades. The growth of power loom sector is due to favorable government policies as well as market forces. The production in Non-Mills Sector is not reported and therefore is estimated. The Table 3.4 shows production and export of clothing during the period under review.

**Table 3.4: Production and export of Clothing Sector**

| Production                     | July-March<br>2015-16 | July-March<br>2014-15 | % Change    |
|--------------------------------|-----------------------|-----------------------|-------------|
| Mill Sector (M. Sq. Mtrs.)     | 780.233               | 776.900               | 0.42        |
| Non Mill Sector (M. Sq. Mtrs.) | 6091.972              | 6063.949              | 0.46        |
| <b>Total</b>                   | <b>6872.205</b>       | <b>6840.849</b>       | <b>0.45</b> |
| <b>Cloth Exports</b>           |                       |                       |             |
| Quantity (M.SqMtr.)            | 1606.092              | 1566.777              | 2.51        |
| Value (M.US\$)                 | 1685.470              | 1875.705              | -10.14      |

Source: Ministry of Textile

**iii. Textile Made-Up Sector**

Being value added segment of textile industry made-up sector comprises different sub groups namely towels, tents & canvas, cotton bags, bed-

wear, hosiery & knitwear & readymade garments including Fashion Apparels. Export performance of made-up sector during the period July-Mar FY 2016 is presented in Table 3.5.

**Table 3.5: Export of Textile Made-Ups**

|                           | July-March<br>2015-16 | July-March<br>2014-15 | % Change |
|---------------------------|-----------------------|-----------------------|----------|
| <b>Hosiery Knitwear</b>   |                       |                       |          |
| Quantity (M.Dozen)        | 86.338                | 78.706                | 9.70     |
| Value (M.US\$)            | 1749.763              | 1787.279              | -2.10    |
| <b>Readymade Garments</b> |                       |                       |          |
| Quantity (M.Dozen)        | 23.472                | 23.111                | 1.56     |
| Value (M.US\$)            | 1609.452              | 1544.530              | 4.20     |
| <b>Towels</b>             |                       |                       |          |
| Quantity (M.Dozen)        | 131.429               | 127.444               | 3.13     |
| Value (M.US\$)            | 591.722               | 590.467               | 0.21     |
| <b>Tents/Canvas</b>       |                       |                       |          |
| Quantity (M.Dozen)        | 26.976                | 37.381                | -27.83   |
| Value (M.US\$)            | 75.427                | 104.600               | -27.89   |
| <b>Bed Wears</b>          |                       |                       |          |
| Quantity (M.Dozen)        | 243.293               | 241.646               | 0.68     |
| Value (M.US\$)            | 1505.484              | 1570.390              | -4.13    |
| <b>Other Made up</b>      |                       |                       |          |
| Value (M.US\$)            | 471.266               | 488.180               | -3.46    |

Source: Ministry of Textile

**a. Hosiery Industry**

There are about 13,372 circular knitting machines, 10,646 flat knitting and 23,241 socks knitting machines spread all over the country. The capacity utilization is approximately 70 percent. There is greater reliance on the development of this industry as there is substantial value addition in the form of knitwear. Besides locally manufactured machinery, liberal import of machinery under different modes is also being made and the capacity based on exports is being developed.

The performance of this sector during July-March FY2016 suggested that knitwear production was 86.338 thousand dozen compared to 78.706 thousand dozen last year showing a growth of 9.70 percent. Knitwear worth \$ 1749.763 million was exported as compared to \$ 1787.279 million showing decline of 2.10 percent. The earning compared to last year was due to lower commodity prices globally. The export performance of knitwear during the period under review is given below in Table.3.6.

**Table 3.6: Export of Knitwear**

|                      | July-Mar<br>2015-16 | July-Mar<br>2014-15 | %<br>Change |
|----------------------|---------------------|---------------------|-------------|
| Quantity (000.Dozen) | 86.338              | 78.706              | 9.70        |
| Value (M.US\$)       | 1749.763            | 1787.279            | -2.10       |

Source: Ministry of Textile

**b. Readymade Garment Industry**

Readymade garment industry has emerged as one of the important small scale industries in Pakistan. Its products have higher demand both domestically and globally. The local requirements of readymade garments are almost met by this industry. Garment industry is also a good source of providing employment opportunities to a large number of people at a very low capital investment.

Generally export earnings from garments have increased significantly. Exports increased from 23.111 million dozens in various types of readymade garments worth US\$ 1544.530 million in FY 2015 to compare to 23.472 million dozens worth \$1609.452 million in FY 2016, showing an increase of 4.20 percent in terms of value and 1.56 percent in term of quantity.

**Table 3.7: Export of Readymade Garments**

|                    | July-Mar<br>2015-16 | July-Mar<br>2014-15 | % Change |
|--------------------|---------------------|---------------------|----------|
| Quantity (M.Dozen) | 23.472              | 23.111              | 1.56     |
| Value (M.US\$)     | 1609.452            | 1544.530            | 4.20     |

Source: Ministry of Textile

**c. Towel Industry**

There are about 10,000 towel looms including shuttle and shuttle less in the country in both organized and unorganized sector. This industry is

dominantly export based and its growth has all the time depended on export outlets. The existing towels manufacturing factories have been upgraded to produce higher value towels. During July-March FY2016, exports in term of quantity recorded at 131.429 million kg as compared to 127.444 million kg showing an increase of 3.13 percent. Export performance of towel sector during the period is given below in Table 3.8.

**Table 3.8: Export performance of Towel sector**

|                  | July-Mar<br>2015-16 | July-Mar<br>2014-15 | %<br>Change |
|------------------|---------------------|---------------------|-------------|
| Quantity (M.Kgs) | 131.429             | 127.444             | 3.13        |
| Value (M.US\$)   | 591.722             | 590.467             | 0.21        |

Source: Ministry of Textile

**d. Canvas**

The production capacity of this sector is more than 100 million Sq. meters. This sector is also known as Raw Cotton Consuming sector. Pakistan is the cheapest source of supply of Tents and Canvas. The export of this sector during July-March FY2016 recorded at \$ 75.427 million as compared to the \$ 104.600 million in comparable period last year, thus showing a decrease of 27.89 percent. In term of quantity during July-March FY2016 it recorded at 26.976 thousand dozen as compare to 37.381 thousand dozen and recorded a decline of 27.83 percent.

**Table 3.9: Export performance of Tent and Canvas Sector**

|                      | July-Mar<br>2015-16 | July-Mar<br>2014-15 | %<br>Change |
|----------------------|---------------------|---------------------|-------------|
| Quantity (000.Dozen) | 26.976              | 37.381              | -27.83      |
| Value (M.US\$)       | 75.427              | 104.600             | -27.89      |

Source: Ministry of Textile

**iv) Synthetic textile fabrics**

During July-March FY2016, synthetic textile fabrics worth \$ 222.163 million were exported as compared to \$ 255.674 million showing a decline of 13.1 percent as compared to last year. Even in Quantity term the exports of synthetic decreased by 6.4 percent.

**v) Woolen industry**

The main products manufactured by the woolen industry are carpets and rugs. During July-March FY 2016, carpets and rugs worth \$ 74.027 million

were exported as compared to \$ 92.924 million showing a decrease of 20.34 percent. In Quantity term the export of carpets and rugs also decreased by 26.53 percent. The exports of carpets during the period July-March FY2016 is given in the Table 3.10.

**Table 3.10: Exports of Carpets and Rugs (Woolen)**

|                     | July-Mar<br>2015-16 | July-Mar<br>2014-15 | % Change |
|---------------------|---------------------|---------------------|----------|
| Quantity (M.Sq.Mtr) | 1.415               | 1.926               | -26.53   |
| Value (M.US\$)      | 74.027              | 92.924              | -20.34   |

Source: Ministry of Textile

**vi) Jute industry**

The main products manufactured by the Jute Industries are Jute Sacks and Hessian cloth, which are used for packing and handling of Wheat, Rice and Food Grains. The installed and working capacity of jute industry is given in the Table 3.11.

**Table 3.11: Installed and working capacity of Jute**

|                    | Jul-Mar<br>2015-16 | Jul-Mar<br>2014-15 | %<br>Change |
|--------------------|--------------------|--------------------|-------------|
| Total No. of Units | 10                 | 10                 | 0           |
| Spindles Installed | 24272              | 24544              | 1           |
| Spindles Worked    | 12976              | 22305              | -42         |
| Looms Installed    | 1134               | 1092               | 4           |
| Looms Worked       | 568                | 871                | -35         |

Source: Ministry of Textile

The production of the Jute goods during Jul-March FY2016 and last year was 45,402 and 71,670 metric tons, respectively showing a decrease of 37 percent.

The textiles sector in Pakistan is affected by a number of exogenous and indigenous factors such as low cotton production, lower international cotton prices on event of global economic slowdown, and increasingly stringent buyers conditionality. However, on other hand, value-added garments sector has grown marginally due to its limited product range, less usage of manmade fibers and inability of manufacturing units to restructure them to meet changing international requirements.

To help textile sector the federal government has announced Textile Policy 2014-2019 in February

2015. The package carries special duty-drawback rates, duty exemption on plants and machinery, subsidy on long-term loans and development subsidies. The policy offered Rs. 64.15 billion cash subsidy to the textile and clothing sector to boost exports to \$26 billion by 2019 from \$13 billion.

### **3.3 Other Industries**

#### **3.3-1 Engineering Sector**

Engineering Development Board (EDB) is an apex government body under Ministry of Industries & Production entrusted to strengthen engineering base in Pakistan. EDB focuses primarily on the development of engineering goods and services sector on modern lines enabling it to become technologically sound and globally integrated. Engineering Development Board has so far taken the following initiatives.

#### **4<sup>th</sup> Industrial minerals, steel, downstream engineering industries conference and exhibition (2015):**

Engineering Development Board (EDB) in the conference “4<sup>th</sup> Industrial Minerals, Steel, Downstream engineering industries at Lahore” in October 2015 highlighted the fact that although growth in our steel industry has been relatively slower but downstream engineering industry has progressed with good pace thus building a base for producing value added industrial products like automobile and parts, electrical machinery/equipment, consumer durables, pipes valves etc. The objective is to utilize the available resources of the country in the most effective manner in order to maximize the engineering productivity as well as its share in the exports. These industrial sectors have shown exponential growth and are ready to adopt new technologies and build their capacities/capabilities to meet the emerging challenges of globalization. The enabling environment, supported by the government’s policies has been instrumental in development and growth of the industrial sector to the present level. The EDB is working hard to complement the Government of Pakistan efforts through policy inventions and hand holding of various sectors.

#### **Pakistan Investment Conference:**

The 2<sup>nd</sup> Pakistan investment conference,

organized by the Board of Investment held in November, 2015 in Islamabad inaugurated by Prime Minister of Pakistan and the concluding session was presided over by Federal Minister for Finance and Revenue. Sixty seven (67) diplomats including commercial counselors of foreign missions in Islamabad also participated in the conference. The conference provided a great opportunity to 650 foreign and Pakistani businessmen and investors of 29 participating countries and local investors to gather information and interact with each other to explore joint venture business and investment opportunities in various sectors. Separate stalls were set up by the Provincial Board of Investment to showcase their respective products. Eight focused sectoral sessions participated by both public and private sector panelists deliberated in detail on Energy, Water & Power, Oil & Gas, Agriculture & Livestock, Textile & Garments sectors and SEZs initiative and Investment Policy for investment in these areas.

Engineering Development Board gave a detailed presentation to the potential investors highlighting the existing vast investment opportunities in different sectors of the equipment, light engineering and related incentive-pioneer industry regime etc. After the Conference, BOI has been receiving a large number of business proposals and quarries from the participants.

#### **3.3-2 Automobile Industry**

In automobile sector, there has been surge in productions of all its sub sectors except the farm tractors and jeeps during the period July-March FY 2016. Remarkable growth has been witnessed in buses which is recorded at 82 percent, LCVs 68.5 percent, Trucks 41.6 percent, Cars 30.2 percent and two/three wheelers 21 percent during July-March FY 2016 as compared to corresponding period last year. However, during July-March FY 2016, farms tractors and jeeps production declined by 38.6 percent and 28.4 percent, respectively.

The sales of passenger cars and pickups increased due to lowest ever financing rates, improved real incomes and better economic and security conditions. The current year’s figures also show a boost in the sales which were due to Apna Rozgar

Scheme by Government of Punjab. The scheme came to close in March 2016 after running for nearly sixteen months and uplifting about 50000 units of vans and pickups. In case of LCVs, 68.5 percent growth on account of the increased sales of pickups during the period under the said scheme.

Trucks also witnessed a growth of 41.6 percent and sales of 37.5 percent on account of measures taken by the government such as combination of stringent enforcement actions and policy interventions; whereby disguised/mis-declared import of trucks could be curbed. The situation would further improve with expected imposition of age limit on import of used trucks.

The remarkable growth in buses recorded at 82 percent is due to high demand by the transporters

on account of improvement in network of roads. The locally produced buses are being offered at highly competitive prices despite imposition of sales tax, compared to the prices of imported buses. Besides the service and maintenance are not the issues with the local product compared to the imported ones.

The two/three wheeler sector continued its growth since 2001. Motivated by market expansion new entrant of international standing also entered into the market and have set up a new manufacturing plant. Nevertheless, there were closures and production losses at several units, however, the overall growth stayed at 20 percent.

Table below shows comparative position of the production during the year July-March FY 2016 and FY2015.

| Table 3.12. Production of Automotive Industry |                    |                    |                    | No of units produced |
|-----------------------------------------------|--------------------|--------------------|--------------------|----------------------|
| Category                                      | Installed Capacity | 2014-15 (July-Mar) | 2015-16 (July-Mar) | % Change             |
| Cars                                          | 240,000            | 105,267            | 137,067            | 30.2                 |
| LCVs                                          | 43,900             | 17,521             | 29,529             | 68.5                 |
| Jeeps                                         | 5,000              | 868                | 621                | -28.4                |
| Buses                                         | 5,000              | 410                | 746                | 82                   |
| Trucks                                        | 28,500             | 2,781              | 3,940              | 41.6                 |
| Farm Tractors                                 | 65,000             | 35,753             | 21,942             | -38.6                |
| Two/Three Wheelers                            | 2,500,000          | 811,459            | 982,423            | 21                   |

Source: Pakistan Automotive Manufacturer Association

### Box 3.1: Automotive Development Policy (ADP) 2016-21

The Government of Pakistan has announced Automotive Development Policy (ADP) 2016-21 in March 2016. A Committee constituted by the Economic Coordination Committee of Cabinet has formulated the Automotive Development Policy (2016-21) which envisages development plans for the automobile industry in the country to facilitate higher volumes, attract investment, ensure enhanced competition and offer higher quality in line with emerging opportunities within the country and in the region and to create a balance between industrial growth and tariffs to ensure sustainability for all stakeholders and attaching prime importance to consumer welfare. In addition, the policy provides consistency and predictability for new investors with a mid-term policy review mechanism to cater for emerging developments to achieve car production of over 350,000 by the year 2021. The salient features of the policy are:

- Lower the entry threshold for New Investment;
- Create enabling tariff structure for development of the Automotive Sector;
- Rationalize automobile import policy;
- Provide regulatory and enforcement mechanisms for Quality, Safety and Environmental Standards;
- Establishment of Pakistan Automotive Institute;
- Ensure Consumer Welfare through provision of quality, safety, choice and value for money;
- Other Interventions, and
- Reorganization of Auto Industry Development Committee (AIDC)

### Goals

In consonance with the Vision of the ADP 2016-21, the following goals reflect future demand by recognizing the need to restructure and modernize the Auto Industry to meet the increasing demand for quality product in future:

To increase automotive production gradually by 2021 to:

|                                   |             |
|-----------------------------------|-------------|
| Cars/Van/Jeeps:                   | 350,000     |
| Light Commercial Vehicles (LCVs): | 79,000      |
| Trucks:                           | 12,000      |
| Buses:                            | 2,200       |
| Tractors:                         | 88,000      |
| Motorcycles:                      | 2.5 million |

- ▶ To increase contribution to the Gross Domestic Product from 2.3 percent to 3.8 percent;
- ▶ To increase contribution to manufacturing from 22 percent to 30 percent, and
- ▶ To increase direct and indirect employment from 2.4 million presently to 4 million.

### 3.3-3 Fertilizer Industry

The fertilizer industry has a significant role in the agricultural growth of the country. It has both forward and backward linkages in national economy. In Pakistan, there are nine urea manufacturing plants, one DAP, three NP, three SSP (18 percent), two CAN and one plant of blended NPKs having a total production capacity of 8,983 thousand product tonnes per annum. Although, the installed production capacity for all products has attained the level of 8,983 thousand tonnes per annum, the actual production for all products remained at 7,116 and 8010 (estimated) thousand product tonnes for 2014-15 and 2015-16 which is less by 20.8 and 10.8 percent respectively, than the installed production capacity. The entire fertilizer products are manufactured by the private sector.

Fertilizer sector is the fourth largest consumer of gas. Due to shortage of gas has disturbed the smooth supplies of natural gas to national fertilizer industry which resulted into low production, undue price hike, increase in imports and subsidy, and erosion of investment especially in case of urea. Now the addition of LNG as source of feed to three plants of Pak Arab Fertilizer Company since March 2015 has considerably increased the fertilizer production to 14.88 percent. At present, the installed production capacity (6323 thousand tonnes) of urea fertilizer is more than national demand of about 6000

thousand tonnes per annum but the actual production is below than their required level. The annual production of urea for 2015-16 is estimated as 5417 thousand tonnes, which is less by 14.3 percent of installed capacity of urea fertilizer.

### 3.3-4 Cement Industry

The cement industry gained from vibrant construction activities on account number of infrastructure and power related projects were taken up during the period under review. The PSDP spending increased from Rs. 350 billion in FY2013 to Rs. 700 billion in FY2016. The CPEC program is also creating demand of cement and allied materials.

During current fiscal year July-April 2015-16, the cement industry dispatches improved to 26.97 million tonnes in local market posting a healthy growth of 17.31 percent compared with 22.99 million tonnes last year. The growth situation during the current fiscal year improved to 9.7 percent compared to 3.9 percent last year. Encouragingly, in view of expected demand from development projects under PSDP and CPEC and ongoing housing schemes in the public and private sector, the cement industry is looking forward to expand its production capacity from existing level of 45.62 million tones to approximately 53 million tonnes in next two to three years.

**Table 3.13: Cement Production Capacity & Dispatches (Million Tonnes)**

| Years      | Production Capacity | Capacity Utilization (%) | Local Dispatches | Exports | Total Dispatches |
|------------|---------------------|--------------------------|------------------|---------|------------------|
| 2006-2007  | 30.50               | 79.23                    | 21.03            | 3.23    | 24.26            |
| 2007-2008  | 37.68               | 80.14                    | 22.58            | 7.72    | 30.30            |
| 2008-2009  | 42.28               | 74.05                    | 20.33            | 10.98   | 31.31            |
| 2009-2010  | 45.34               | 75.46                    | 23.57            | 10.65   | 34.22            |
| 2010-2011  | 42.37               | 74.17                    | 22.00            | 9.43    | 31.43            |
| 2011-2012  | 44.64               | 72.83                    | 23.95            | 8.57    | 32.52            |
| 2012-2013  | 44.64               | 74.89                    | 25.06            | 8.37    | 33.43            |
| 2013-2014  | 44.64               | 76.79                    | 26.15            | 8.14    | 34.28            |
| July-April |                     |                          |                  |         |                  |
| 2014-15    | 45.62               | 76.49                    | 22.99            | 6.08    | 29.08            |
| 2015-16    | 45.62               | 83.91                    | 26.97            | 4.93    | 31.90            |

Source: All Pakistan Cement Manufacturers Association (APCMA)

The cement industry focusing on capacity expansion with an investment of \$ 1 billion in view of ever growing demand within the domestic market as well as focus on export to market in the African region. Four companies have already announced their plans in this regard such as Cherat cement, Attock cement, DG Khan cement and Lucky cement.

### 3.5: Privatization Programme

Privatization is the corner stone of the government's economic reforms agenda. It is an important policy tool for generating growth and addressing structural imbalances by removing the artificial barriers and opening up the economy to competition. Privatization helps any economy to move towards liberalization, from controlled to competitive markets and from inefficient state owned enterprises to efficient private organizations with state of the art management systems and technologies equipped with the best international standards of corporate governance.

Pakistan is one of the first countries in the region to initiate deregulation and liberalization of the economy, and start the privatization process. PC has successfully managed to complete 172 privatization transactions, generating revenues worth Rs.648.972 billion, since the commission's inception in January, 1991.

In June 2013, the present government announced that one of its highest priorities is to turn around

the loss making Public Sector Enterprises (the "PSE") by restructuring the entities with the assistance of strategic private sector partnership, which has the capacity to invest and provide capable management.

After a gap of nearly 6 years, the present government reinstalled the privatization programme in October 2013, when the Cabinet Committee on Privatization (CCoP) approved a list of 69 Public Sector Entities (PSEs) for privatization, including 31 PSEs in the privatization programme for early implementation. Subsequently, in June 2014, the CCoP approved 8 additional PSEs for early implementation. Accordingly, PC initiated the process for various PSEs in Banking, Oil & Gas, Insurance, Aviation and Power Sectors

Four capital market offerings have been successfully completed, namely United Bank Limited, Pakistan Petroleum Limited, Allied Bank Limited and Habib Bank Limited. Furthermore, the strategic sale of National Power Construction Corporation (Pvt.) Limited has also been successfully completed. In total, gross proceeds of Rs. 173 billion, including over USD 1.1 billion in Foreign Exchange, have been raised from these five completed transactions. Details of these completed transactions are provided in the Table 3.14.

Eighteen (18) privatization transactions are currently ongoing and are at different stages of the

## Manufacturing and Mining

strategic sale process. These include Pakistan International Airlines, Pakistan Steel Mills, State

Life Insurance Corporation, SME Bank and the Power Sector entities.

**Table 3.14: Detail of Transaction to date**

| Sr. No.      | PSEs                                    | Transaction Completion Date | Revenues            |                   | FX raised (USD)   |
|--------------|-----------------------------------------|-----------------------------|---------------------|-------------------|-------------------|
|              |                                         |                             | PKR                 | USD equivalent    |                   |
| 1.           | United Bank Limited (UBL)               | June 2014                   | Rs. 38.2 bn         | \$ 388 m          | \$ 315 m          |
| 2.           | Pakistan Petroleum Limited (PPL)        | June 2014                   | Rs. 15.4 bn         | \$ 153 m          | -                 |
| 3.           | Allied Bank Limited (ABL)               | December 2014               | Rs. 14.4 bn         | \$ 144 m          | \$ 20 m           |
| 4.           | Habib Bank Limited (HBL)                | April 2015                  | Rs.102.4 bn         | \$ 1,005 m        | \$ 764 m          |
| 5.           | National Power Construction Corp (NPCC) | August 2015                 | Rs. 2.5 bn          | \$ 25 m           | \$ 25 m           |
| <b>Total</b> |                                         |                             | <b>Rs. 172.9 bn</b> | <b>\$ 1,715 m</b> | <b>\$ 1,124 m</b> |

Source: Privatization Commission

The success of the privatization programme is contingent on the support of all the stakeholders, including the various government agencies, departments, organizations, regulatory authorities and most importantly the people of Pakistan.

### 3.6: Small and Medium Enterprises

Small and Medium Enterprises Development Authority (SMEDA) is an apex organization for development of the SME sector in Pakistan. It has

an all-encompassing mandate towards fostering growth of SMEs along with a broad service portfolio spread across various SME sectors and clusters, skill development through training, industry support for productivity enhancement, business development services and collaborative projects with international development partners.

Salient activities/achievements of SMEDA during July-March FY 2016 are given below:-

#### i. SMEDA's Regular Business Development Support Services, Research & Advocacy

|                                    |                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------|
| Walk-ins facilitated:              | More than 4,400                                                                       |
| Investment Facilitation:           | Rs. 652.74 Million (Approx.)                                                          |
| Pre-feasibility Studies Developed: | 21                                                                                    |
| Business Plans Developed:          | 11                                                                                    |
| Training Programs/workshops        | 165 programs, 5,370 participants                                                      |
| Cluster Profiles developed         | 6                                                                                     |
| District Profiles developed        | 8                                                                                     |
| SMEDA Newsletter (Quarterly):      | 3 Issues, containing information on SME development initiatives and guidance for SMEs |
| SME Observer (Bi-Annual):          | 1 Issue with 4 research articles for policy advocacy                                  |

#### ii. Prime Minister's Youth Business Loans (PMYBL)

- ▶ At the launch of PMYBL in 2013, Eight Five (85) Business Pre-feasibility Studies (also translated into Urdu) were developed along with information resources and tools including, FAQs on Pre-feasibility studies, Financial Calculators (4), Guidelines / Template on developing Business Plan, and Training Video Documentaries (7) developed on various aspects of business.

- ▶ 16.57 million Pre-feasibility studies and other

tools and resources were downloaded from SMEDA website and 24,600 prospective loan applicants facilitated through SMEDA helpdesks after the launch of PMYBL. (1,399 prospective loan applicants have been facilitated and 1.22 million downloads were recorded during the period July-March FY2016).

- ▶ Information dissemination of PMYBL has been enhanced through SMEDA regular training programs across the country.

#### iii. Special Projects with international

### development partners

SMEDA in collaboration with various international development agencies such as Japan International Cooperation agency (JICA), German International Cooperation (GIZ), Training and Development Centers of the Bavarian Employers Association (bfz), Germany and local experts, is providing technical assistance to SMEs across a range of industries to upgrade their skills and improve systems. Over 50 international Technical Experts have been engaged by SMEDA and demonstrated best practices for improving Productivity & Quality, reducing energy wastages and improving workplace environment of SME sectors.

The area covered under these projects includes industry support services, energy efficiency, technical support to Auto parts manufacturing industry and economic fertilization of KPK and FATA.

#### iv. SME Development Projects under Public Sector Development Program (PSDP)

SMEDA initiated efforts in infrastructural development and technological up gradation through undertaking projects financed by the PSDP. Currently, SMEDA is implementing five (05) PSDP projects at a total cost of Rs. 382.46 million.

#### v. SMEDA Establishment Sports Industries Development Centre (SIDC) to facilitate sports Sector

Pakistan's Sport Industry is known around the globe for its specialized world-class sports goods production, especially footballs. Sialkot alone caters to 70 percent demand of the hand stitched inflatable balls and produces 40 million balls annually. However, Sports goods sector, was facing a major threat in the form of "Mechanized inflatable ball", which uses medium end technology to produce a ball having most of the characteristics of hand stitched ball. SMEDA has facilitated the local football industry to enhance its share in the international market by establishing a Sports Industries Development Center (SIDC) at Sialkot through Public Sector Development Program (PSDP) at a total cost of Rs. 436 million. SIDC is a core initiative in the

strategy of infusing Mechanized inflatable ball technology in the local industry.

#### vi. SMEDA-SBP Interaction to Accelerate SMEs Access to Finance

In order to create an environment that supports greater financial inclusion, the State Bank of Pakistan and SMEDA have collaborated through signing an MOU and have been engaged in various initiatives and programs. A few key initiatives undertaken during the period are as follows:

- ▶ **National Financial Inclusion Strategy (NFIS):** SME specific input was provided for the National Financial Inclusion Strategy, developed by the State Bank of Pakistan in collaboration with the World Bank. The government has approved the NFIS. SMEDA is a member of the Steering Committee of NFIS as well as Technical Committees on "Microfinance, Agriculture Finance & Housing Finance" and "SME Finance". Detailed action plans on the themes will be developed for increasing SMEs access to finance.
- ▶ **Capacity Building:** Training and awareness is a regular feature.
- ▶ **3S forum:** The State Bank of Pakistan has established an institutional committee with SMEDA and the Securities & Exchange Commission of Pakistan (SECP) to ensure a ready mechanism for information exchange and to propose recommendations for creating a facilitative regulatory environment for enhancing SMEs access to finance. Launching of venture capital funds for SMEs through Asset Management Companies (AMCs), exploring possibility for establishment of an SME rating agency and options for arranging credit lines to leasing companies are key areas where SBP, SECP and SMEDA propose to work together.

#### vii. Pakhtunkhwa Hunermand Rozgar Scheme (PHRS)

PHRSS is an employment scheme aiming to create new job opportunities and economic activities in KPK. Government of Khyber Pakhtunkhwa has initiated the scheme in

collaboration with Bank of Khyber (BOK). So far, the Bank of Khyber has approved loans of Rs. 750 million. SMEDA, in this regard, provides assistance to successful applicants in terms of capacity building and business development. During July-March FY 2016, Six(6) training programs have been conducted to facilitate loan applicants.

#### viii. SMEDA's Collaboration with Turkish SME Development Agency, KOSGEB

Small and Medium Enterprises Development Authority (SMDA) and Turkish Small and Medium Enterprises Development Organization (KOSGEB) signed a Memorandum of Understanding (MoU) for the promotion of SMEs of both countries. The following are the focus areas of this collaboration:

- ▶ Mutual business trips and exchange of teams for exposure
- ▶ Improving SMEs' commercial relations to encourage joint ventures
- ▶ Organization training programs for SMEs and related organizations
- ▶ Exploring opportunities in other third world countries for synergy
- ▶ Cooperation with international agencies to maximize utilization of funds
- ▶ Attracting Turkish investment for value addition in sectors with competitive advantage

#### ix. China-Pakistan Economic Corridor (CPEC)

The China-Pakistan Economic Corridor offers immense opportunities for achieving development objectives. SMEDA, in this regard, provided

policy inputs on Draft Long Term Plan of China-Pakistan Economic Corridor (CPEC) to capture key areas to mobilize investment for the benefits for the SMEs sector of both countries. SMEDA proposed 70 direct interventions under 13 economic sectors for fast track development. The proposed interventions are based on SMEDA as 5 years SME Development Plan that has been included in Pakistan Vision 2025.

#### 3.7: Mineral Sector

Pakistan is bestowed with all kinds of resources which also include mineral resources. Pakistan possesses a large number of industrial rocks, metallic and non-metallic which have not been evaluated. The mineral wealth of Pakistan contributes meagerly in GDP (3 percent). This is due to application of outdated management techniques, inadequate capital and antique technical know-how besides unsatisfactory law & order situation in the areas where major bulk of our mineral resources lie.

The Mining and Quarrying sector grew by 6.8 percent in FY 2016 as against 4.0 percent last year. Calcite, Rock Salt, Phosphate, Marble, Gypsum, Dolomite, Soap Stone, Lime Stone and Natural Gas posted a positive growth rate of 123.79 percent, 65.16 percent, 53.96 percent, 50.50 percent, 47.57 percent, 33.28 percent, 26.10 percent, 23.19 percent and 1.49 percent respectively. However, some witnessed negative growth rate during the period under review such as Magnesite 58.14 percent, Barytes 42.12 percent, Sulphur 37.18 percent, Crude oil 8.21 percent, Chromite 3.85 percent and Coal 0.66 percent. (Table 3.14).

**Table 3.14: Extraction of Principal Minerals**

| Minerals    | Unit of Quantity | 2013-14    | 2014-15    | 2015-16    | %Change FY16/FY15 |
|-------------|------------------|------------|------------|------------|-------------------|
| Coal        | M.T              | 3,311,240  | 3,402,028  | 3,379,601  | -0.66             |
| Natural Gas | MMCFT            | 1,493,686  | 1,465,759  | 1,487,548  | 1.49              |
| Crude Oil   | JSB(000)         | 31,584     | 34,490     | 316,59     | -8.21             |
| Chromite    | M.T              | 83,447     | 98,939     | 95,128     | -3.85             |
| Magnesite   | M.T              | 3,770      | 4,431      | 1,855      | -58.14            |
| Dolomite    | M.T              | 592,918    | 223,117    | 297,368    | 33.28             |
| Gypsum      | M.T              | 1,322,059  | 1,417,007  | 2,091,117  | 47.57             |
| Lime Stone  | M.T              | 36,463,310 | 39,757,568 | 48,976,833 | 23.19             |
| Rock Salt   | M.T              | 2,220,347  | 2,136,361  | 3,528,403  | 65.16             |
| Sulphur     | M.T              | 35,672     | 19,730     | 12,395     | -37.18            |

**Table 3.14: Extraction of Principal Minerals**

| Minerals   | Unit of Quantity | 2013-14   | 2014-15   | 2015-16   | %Change FY16/FY15 |
|------------|------------------|-----------|-----------|-----------|-------------------|
| Barytes    | M.T              | 132,433   | 118,568   | 68,626    | -42.12            |
| Calcite    | M.T              | 436       | 1694      | 3,791     | 123.79            |
| Soap Stone | M.T              | 72,234    | 101,039   | 127,408   | 26.10             |
| Marble     | M.T              | 2,591,401 | 2,597,082 | 3,908,532 | 50.50             |
| Cooper     | M.T              | 6,538     | 4,376     | 0         | -100.00           |
| Phosphate  | M.T              | 87,806    | 84,606    | 130,259   | 53.96             |

Source: Pakistan Bureau of Statistics (PBS)

**Punjab:**

Punjab, being second largest (area-wise) province of the country, has vast mineral potential like coal, salt, iron ore, limestone, gypsum, silica sand and fire clay etc. Government of Punjab striving to follow a road map on mineral exploration projects.

- ▶ To enhance the contribution of mineral sector to GDP through improved production.
- ▶ To expand mining sector by focusing on exploration and evaluation of mineral resources.
- ▶ To enhance public sector investment on Resource Mapping, Geo-database Development and provision of physical infrastructure, roads and electricity etc. in the potential areas.
- ▶ To promote facilitation role of the government for the prospecting investor.
- ▶ To encourage and support exploration of minerals, particularly through private sector.
- ▶ To promote environment friendly mining practices and to take measures for mitigation of environmental hazards for sustainable development of mineral sector.

Government of Punjab has made following achievements.

**I. Development of Mineral Sector Infrastructure****a) Geophysical Survey of Sub Surface Pre-Cambrian Shield Rocks in Punjab For Metallic Mineral Deposits**

Presence of sufficient evidences of metallic minerals near Chiniot-Rajoa led the mines and

minerals department to undertake regional and semi detailed geophysical survey of the area. Geological Survey of Pakistan (GSP) was engaged in May 2013, for in depth investigations to evaluate potentials of sub-surface deposits of metallic minerals in the Pre-Cambrian Indian Shield Rocks.

In the first phase, the entire region comprising over 28 topo sheets, spreading over about 18000 sq.km area was to be covered by semi-detailed magnetic survey to explore anomalous zones. On determination of anomalous zones, detailed investigations are to be carried out by integrated geophysical surveys, thereafter selected anomalous localities would have to be recommended for confirmatory drilling. Geological Survey of Pakistan (GSP) has completed the following task till December 2015.

- ▶ Semi-detailed magnetic survey on 28 topo sheets. Total magnetic survey data was recorded using Proton Precession Magnetometer, Geometric G856AX, and after applying necessary corrections prepared 2D contour maps using surfur-11.
- ▶ Thirty two (32) anomalous zones of different intensities were discovered,
- ▶ Three (3) out of thirty two (32) so far detected anomalies zones were selected for integrated geophysical surveys.
- ▶ Gravity, Magnetic and IP surveys on three selected anomalies near Wad Sayyidan, Ghutti Sayyidan and ChakJhumra are completed.
- b) Capacity Building & Strengthening of Directorate General of Mines & Minerals Punjab, Lahore**

Capacity building is an evidence-driven process of

strengthening the abilities of individuals, organizations, and systems to perform core functions and to continue to improve and develop over time. For this purpose, purchase of new Gadgets, Software and training are the basic components. Contrary to the past, this time government has allocated handsome funds to introduce advance software of GIS techniques for preparation of mine database. Similarly, SURPAC Software, a most advance software used in advance countries for mineral resource estimation, 3D modeling, quarry and underground mine planning & design, scheduling for optimized mineral handling.

**c) Development of physical infrastructure provision of electricity in mining area of district Khushab**

District Khushab being central part of salt range is rich in mineral wealth and contributing substantial revenue to public exchequer. A reasonable proportion of local's population are working in mines/collieries and earning their livelihoods. The mining area located far flung from towns and smaller cities, therefore, deprived from basic amenities like electricity. Due to non-availability of electricity mine owners have to use diesel engine to run mining operations entailing high operational cost that discourages mechanization of mines. With the provision of electricity in mining areas, mining activity will boost manifold consequently provide opportunity to community to prosper.

**II. Grant of large scale mining leases**

Recently seven mining leases/licenses falling under Large Scale Mining have been granted to different companies including M/s. Asian Precious Minerals (PVT) Limited, M/s. I.C.I. (PVT) Limited, M/s. Lucky Cement, M/s. Jabal-e-Marjan, M/s. LEPAK Mining and M/s. National Marble involving investment of worth Rs. 40.2 billion. Similarly two exploration licenses for potash brine under Large Scale Mining have been granted to M/s. Asian Precious Minerals (PVT) Limited, where investment of Rs. 10.0 billion is expected.

**III. Revenue receipts & mineral production**

Mines & Minerals Department was given a target

of Rs.4200 million during FY 2016 for collection of royalty on production of minerals from mining lease areas. The target will be achieved by the end of this fiscal year 2016.

**IV. Legal review framework**

Punjab mining concession rules were framed in 2002. Since then no legal review was made whereas drastic changes has occurred during this span of 13 years which demands its review to keep it abreast with the present need. After detailed deliberations, amendments under Minor Minerals chapter (Sand, Gravels and Sand Stone) has been completed and implemented. By virtue of this revision, concept of reserve price, blacklisting and number of holding limits has been introduced to curb monopolistic trend of sand/stone mafia and provided transparent environment for genuine investors. Similarly, Legal review of Large Scale Mining and Small Scale Mining is completed and is under consideration of Law Department for final scrutiny.

**V. International seminar on business opportunities**

Mines and Minerals department played an active role in conducting International seminar on business opportunities (ISBOP) 2015, and successfully signed thirteen MOU's with foreign and local companies on mining projects.

**Benchmarks for 2016-2017**

Apart from the ongoing scheme of capacity building and Geophysical Survey of sub-surface pre-cambrian shield rocks, following new schemes has been included for the next financial year 2016-17.

- i. Mineral Resources potential of Punjab
  - a) Energy Minerals
  - b) Metallic Minerals
  - c) Industrial Minerals
- ii. Construction of road network to facilitate coal supply to power plant at Pind-Dadan khan District Jhelum.
- iii. Identification of effective strategies to optimize coal production from Coal Mines in Salt Range/Trans Indus Range (District

Jehlum, Chakwal, Khushab and Mianwali), Punjab.

- iv. Rock Salt potential blocks delineation in Salt Range, Punjab.

#### **Khyber Pakhtunkhwa**

The total area of Khyber Pakhtunkhwa is 74521 Sq Km out of which 70 percent consists of mountains and rocks. The formation of these rocks contains huge prospects of different metallic/non-metallic minerals and various precious/semi-precious gemstones and other minerals. It has vast mineral resources which were not being exploited to its full potential. Based on the exploration done so far, excellent prospects of findings and discovering other valuable deposits exists.

The major achievements of Minerals Development Department regarding welfare of the mine labors during 2016 were:

#### **Plan, Strategies and Targets for 2016-17**

- ▶ Work on up gradation of the existing Five (05), Mines Labour Welfare Dispensaries to Medical Centers.
- ▶ Establishment of new mines labour welfare dispensaries where needed.
- ▶ Establishment of water supply schemes in cluster of mine areas on need basis.
- ▶ Initiate work on establishment of recreational centers for mine labours in cluster of mine areas.
- ▶ Continuation of the scheme titled 'Reimbursement of expenditure incurred on medical treatment of mine labours throughout Khyber Pakhtunkhwa for patients of Cancer, Tuberculosis, Heart Diseases, Kidney Transplantation, Medical Health and other chronic diseases.
- ▶ Continuation of award of scholarships to children of mine labour in Khyber Pakhtunkhwa.
- ▶ Work on housing scheme (pre-fabricated building) at cluster of mine sites in the province.
- ▶ Continuation of the scheme titled 'Grant Aid

to mine Owners/lease holders for maintenance of standard dispensary services.

- ▶ Initiation of the scheme titled 'full reimbursement of expenditure for artificial limbs to mine labours who lost limb(s) during work in mines.
- ▶ Provision of Transport Facility to mine labours from and to work places where needed.

#### **Sindh**

The mines and mineral department Government of Sindh regulate & monitor mining operations & activities in the mineral sector and also promotes joint ventures especially with foreign investors for development of coal resources of the province. The details of ongoing schemes are given below.

#### **I. Appraisal of newly-discovered coal resources of the Badin Coal Field and its adjoining areas of Southern Sindh**

- ▶ Drilling of two bore hole have been completed at the depth of 381.46 meters and 423 meters, encountered coal seams at different depth from 342.54 m to 380.24 m, with a cumulative thickness of coal, 6.17 meters and 5.00 meters, respectively.
- ▶ Core samples collected and their chemical analysis have been completed.
- ▶ Geological logging has been completed to the drilled depth.

#### **II. Economic prospects of the Thar Desert Eolian Sand Block, Sindh**

Forty four (44) samples collected from the Thar Desert; locations marked on satellite image and sent to geosciences lab, GSP Islamabad for XRF and XRD analysis. Results of sampled awaited as the next strategy will be developed on the basis of Lab report.

#### **III. First-ever geological map of Sindh at 1:600,000 scales**

The Geological Survey of Pakistan has published First ever Geological map of Sindh on 1:600,000 scales. Since the discovery of Thar coal field, several areas of Sindh has attained a significant importance in their stratigraphic settings and natural resources potential such as bentonite,

granite and celestite etc. It was quite difficult in the past to have a quick and easy access to these sources of information, mainly because of absence of a reliable data base. Now, the GSP has come up with this monumental work of research by compilation and updating of the previous work, the problem has been resolved to some extent. A reliable data base is pre-requisite to attract investment in the mineral sector. This latest map provides a solid foundation for such a data base.

### **Balochistan**

Balochistan province has the major share in minerals being produced in Pakistan. Balochistan constitutes about 42 percent of the total national land and has been endowed by nature with substantial mineral wealth. The province's mineral potential is much bigger than the current production statistics. This gap between the

potential and actual production is affected by law & order situation, absence of necessary infrastructure and lack of technical capacity for the mining. The Government of Balochistan is providing institutional arrangements but still there is dire need for the development of technologies for processing different indigenous ores to extract products of high commercial value which will bring socio-economic uplift and create job opportunities. Presently, more than 51 metallic and non metallic minerals have been discovered in the Balochistan province out of which 29 are being exploited including minerals such as chromite, copper, iron, lead, zinc, manganese, antimony and gold etc whereas the non metallic include barite, fluorite, calcite, magnesite, granite, coal and dimension stone such as marble both onyx & ordinary, granite, gabbro basalt and dunite etc.



# MANUFACTURING AND MINING

TABLE 3.1

## RESERVES AND EXTRACTION OF PRINCIPAL MINERALS

| Minerals<br>in 000 tonnes | Antimony<br>(tonnes) | Argonite/<br>Marble       | China<br>Clay          | Celestite<br>(tonnes) | Chromite                    | Coal                     | Dolomite<br>(tonnes)      | Fire Clay                   | Fullers<br>Earth            | Gypsum<br>Anhydrite    | Lime<br>Stone             |
|---------------------------|----------------------|---------------------------|------------------------|-----------------------|-----------------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------------|---------------------------|
| Reserves<br>Quantity      |                      | Very<br>large<br>Deposits | 4.9<br>million<br>tons | ..                    | fairly<br>large<br>Deposits | 185<br>billion<br>tonnes | Very<br>large<br>Deposits | Over 100<br>million<br>tons | fairly<br>large<br>Deposits | 350<br>million<br>tons | Very<br>large<br>Deposits |
| <b>Years</b>              |                      |                           |                        |                       |                             |                          |                           |                             |                             |                        |                           |
| 2000-01                   | 95                   | 620                       | 47                     | 807                   | 22                          | 3,285                    | 352,689                   | 164                         | 13                          | 364                    | 10,870                    |
| 2001-02                   | 37                   | 685                       | 54                     | 382                   | 24                          | 3,512                    | 312,886                   | 171                         | 16                          | 402                    | 10,820                    |
| 2002-03                   | -                    | 1,066                     | 40                     | 402                   | 31                          | 3,609                    | 340,864                   | 117                         | 15                          | 424                    | 11,880                    |
| 2003-04                   | -                    | 994                       | 25                     | 570                   | 29                          | 3,325                    | 297,419                   | 193                         | 14                          | 467                    | 13,150                    |
| 2004-05                   | 5                    | 1,280                     | 38                     | 1,855                 | 56                          | 3,367                    | 199,653                   | 254                         | 17                          | 552                    | 14,857                    |
| 2005-06                   | 91                   | 1,836                     | 53                     | 3,160                 | 65                          | 3,881                    | 183,952                   | 333                         | 16                          | 601                    | 18,428                    |
| 2006-07                   | 119                  | 1,980                     | 31                     | 1,530                 | 104                         | 3,702                    | 342,463                   | 347                         | 12                          | 624                    | 25,512                    |
| 2007-08                   | 245                  | 1,537                     | 32                     | 1,310                 | 115                         | 4,066                    | 359,994                   | 330                         | 11                          | 660                    | 31,794                    |
| 2008-09                   | 75                   | 1,145                     | 17                     | 470                   | 90                          | 3,679                    | 249,918                   | 389                         | 10                          | 800                    | 33,186                    |
| 2009-10                   | 25                   | 1,065                     | 23                     | 160                   | 257                         | 3,536                    | 130,408                   | 329                         | 11                          | 854                    | 37,137                    |
| 2010-11                   | 25                   | 1,133                     | 16                     | -                     | 148                         | 3,292                    | 240,111                   | 274                         | 4                           | 885                    | 32,021                    |
| 2011-12                   | 12                   | 1,750                     | 22                     | -                     | 179                         | 3,179                    | 198,392                   | 408                         | 7                           | 1,260                  | 35,016                    |
| 2012-13                   | 89                   | 2,360                     | 23                     | -                     | 136                         | 2,813                    | 335,819                   | 455                         | 4                           | 1,250                  | 38,932                    |
| 2013-14                   | 127                  | 2,591                     | 16                     | -                     | 83                          | 3,311                    | 592,918                   | 458                         | 6                           | 1,322                  | 36,463                    |
| 2014-15                   | 114                  | 2,520                     | 19                     | -                     | 99                          | 3,402                    | 223,117                   | 406                         | 8                           | 1,417                  | 39,758                    |
| <b>Jul-Feb</b>            |                      |                           |                        |                       |                             |                          |                           |                             |                             |                        |                           |
| 2014-15                   | 80                   | 1,389                     | 12                     | -                     | 58                          | 2,200                    | 188,454                   | 254                         | 4                           | 948                    | 25,214                    |
| 2015-16 P                 | 21                   | 2,295                     | 16                     | -                     | 51                          | 1,965                    | 373,751                   | 320                         | 7                           | 1,123                  | 33,213                    |

.. : Not available

P : Provisional

(Contd.)

TABLE 3.1

## RESERVES AND EXTRACTION OF PRINCIPAL MINERALS

| (000 tonnes)              |                            |                               |                           |                   |                          |                          |                        |                                  |                               |                              |                                   |
|---------------------------|----------------------------|-------------------------------|---------------------------|-------------------|--------------------------|--------------------------|------------------------|----------------------------------|-------------------------------|------------------------------|-----------------------------------|
| Minerals<br>in 000 tonnes | Magne-<br>site<br>(tonnes) | Rock<br>Salt                  | Silica<br>Sand            | Ochre<br>(tonnes) | Sulphur<br>(tonnes)      | Soap<br>Stone            | Baryte                 | Bauxite/<br>Laterite<br>(tonnes) | Iron<br>Ore<br>(tonnes)       | Crude<br>Oil (m.<br>barrels) | Natural<br>Gas (000<br>m.cu.mtr.) |
| Reserves<br>Quantity      |                            | Over 100<br>million<br>tonnes | Very<br>large<br>deposits | ..                | 0.8<br>million<br>tonnes | 0.6<br>million<br>tonnes | 5<br>million<br>tonnes | Over 74<br>million<br>tonnes     | Over 430<br>million<br>tonnes | 184<br>million<br>US barrels | 492<br>billion<br>cu. metre       |
| Years                     |                            |                               |                           |                   |                          |                          |                        |                                  |                               |                              |                                   |
| 2000-01                   | 4,645                      | 1,394                         | 155                       | 4,691             | 17,428                   | 47                       | 28                     | 35,114                           | 24,765                        | 21.08                        | 24.78                             |
| 2001-02                   | 4,637                      | 1,423                         | 157                       | 5,064             | 22,580                   | 39                       | 21                     | 37,182                           | 4,942                         | 23.19                        | 26.16                             |
| 2002-03                   | 2,645                      | 1,426                         | 185                       | 6,733             | 19,402                   | 66                       | 41                     | 67,536                           | 11,483                        | 23.46                        | 28.11                             |
| 2003-04                   | 6,074                      | 1,640                         | 259                       | 7,861             | 23,873                   | 53                       | 44                     | 88,044                           | 84,946                        | 22.62                        | 34.06                             |
| 2004-05                   | 3,029                      | 1,648                         | 309                       | 18,686            | 24,158                   | 21                       | 42                     | 78,288                           | 104,278                       | 24.12                        | 38.08                             |
| 2005-06                   | 1,161                      | 1,859                         | 411                       | 34,320            | 24,695                   | 21                       | 52                     | 60,370                           | 131,259                       | 23.94                        | 39.65                             |
| 2006-07                   | 3,445                      | 1,873                         | 402                       | 61,665            | 27,710                   | 45                       | 47                     | 150,842                          | 150,695                       | 24.62                        | 40.03                             |
| 2007-08                   | 3,940                      | 1,849                         | 403                       | 46,215            | 29,485                   | 38                       | 54                     | 174,223                          | 286,255                       | 25.48                        | 41.17                             |
| 2008-09                   | 2,639                      | 1,917                         | 370                       | 56,617            | 25,784                   | 14                       | 63                     | 137,485                          | 320,214                       | 24.03                        | 41.37                             |
| 2009-10                   | 5,159                      | 1,944                         | 411                       | 55,352            | 26,641                   | 54                       | 57                     | 190,077                          | 447,541                       | 23.71                        | 41.99                             |
| 2010-11                   | 4,908                      | 1,954                         | 301                       | 36,078            | 27,645                   | 48                       | 31                     | 308,027                          | 329,100                       | 24.04                        | 41.68                             |
| 2011-12                   | 5,544                      | 2,136                         | 270                       | 42,107            | 25,560                   | 56                       | 49                     | 323,848                          | 384,893                       | 24.57                        | 44.15                             |
| 2012-13                   | 6,705                      | 2,160                         | 356                       | 37,769            | 20,610                   | 93                       | 118                    | 353,355                          | 412,108                       | 27.84                        | 42.65                             |
| 2013-14                   | 3,725                      | 2,220                         | 268                       | 32,634            | 35,672                   | 72                       | 132                    | 411,322                          | 192,749                       | 31.58                        | 42.30                             |
| 2014-15                   | 4,431                      | 2,136                         | 269                       | 33,909            | 19,730                   | 101                      | 119                    | 417,036                          | 328,702                       | 34.49                        | 41.51                             |
| Jul-Feb                   |                            |                               |                           |                   |                          |                          |                        |                                  |                               |                              |                                   |
| 2014-15                   | 3,439                      | 1,441                         | 170                       | 20,513            | 14,757                   | 65                       | 105                    | 267,595                          | 243,476                       | 23.22                        | 27.63                             |
| 2015-16 P                 | 1,744                      | 2,104                         | 256                       | 38,138            | 9,507                    | 89                       | 84                     | 464,672                          | 337,564                       | 21.34                        | 28.21                             |

P : Provisional

Source : Pakistan Bureau of Statistics

TABLE 3.2

## PRODUCTION INDEX OF MINING AND MANUFACTURING

| Year      | Mining                    | Manufacturing |
|-----------|---------------------------|---------------|
|           | Base Year 1999-2000 = 100 |               |
| 2000-01   | 105.6                     | 111.2         |
| 2001-02   | 112.5                     | 115.2         |
| 2002-03   | 119.6                     | 123.6         |
| 2003-04   | 134.8                     | 146.5         |
| 2004-05   | 148.7                     | 173.0         |
|           |                           | 2005-06=100   |
| 2005-06   | 155.4                     | 100.0         |
| 2006-07   | 158.2                     | 109.5         |
| 2007-08   | 162.9                     | 116.1         |
| 2008-09   | 160.4                     | 109.1         |
| 2009-10   | 162.6                     | 109.6         |
| 2010-11   | 160.7                     | 111.1         |
| 2011-12   | 170.3                     | 112.4         |
| 2012-13   | 171.5                     | 117.4         |
| 2013-14   | 176.2                     | 123.7         |
| 2014-15   | 178.1                     | 127.9         |
| 2015-16 P | 179.9                     | 133.9         |

P : Provisional

Source: Pakistan Bureau of Statistics

TABLE 3.3

## COTTON TEXTILES STATISTICS

| Year      | No. of Mills | Installed Capacity    |                    | Working at the end of the period |                    | Spindle Hours Worked (Million) | Loom Hours Worked (Million) | Consumption of Cotton (mln kg) | Total Yarn Produced (mln.kg) | Surplus Yarn (mln. kg) | Total Production of Cloth (mln. sq mtr.) |
|-----------|--------------|-----------------------|--------------------|----------------------------------|--------------------|--------------------------------|-----------------------------|--------------------------------|------------------------------|------------------------|------------------------------------------|
|           |              | No. of Spindles (000) | No. of Looms (000) | No. of Spindles (000)            | No. of Looms (000) |                                |                             |                                |                              |                        |                                          |
| 2000-01   | 353          | 8,594                 | 10                 | 7,105                            | 4                  | 59,219                         | 34.1                        | 2,070.1                        | 1,721.0                      | 1,652.7                | 490.2                                    |
| 2001-02   | 354          | 8,967                 | 10                 | 7,078                            | 5                  | 61,267                         | 36.3                        | 2,155.2                        | 1,808.6                      | 1,731.2                | 568.4                                    |
| 2002-03   | 363          | 9,216                 | 10                 | 7,623                            | 5                  | 64,274                         | 38.7                        | 2,371.3                        | 1,934.9                      | 1,855.4                | 576.6                                    |
| 2003-04   | 357          | 9,499                 | 10                 | 7,934                            | 4                  | 69,652                         | 32.7                        | 2,397.8                        | 1,929.1                      | 1,835.9                | 683.4                                    |
| 2004-05   | 423          | 10,941                | 9                  | 8,852                            | 5                  | 72,255                         | 31.2                        | 2,622.8                        | 2,270.3                      | 2,104.9                | 924.7                                    |
| 2005-06   | 437          | 11,168                | 9                  | 9,631                            | 4                  | 74,884                         | 24.8                        | 2,932.6                        | 2,556.3                      | 2,457.6                | 915.3                                    |
| 2006-07   | 427          | 11,266                | 8                  | 10,057                           | 4                  | 76,892                         | 21.7                        | 3,143.5                        | 2,727.6                      | 2,623.2                | 1,012.9                                  |
| 2007-08   | 427          | 11,834                | 8                  | 9,960                            | 4                  | 76,400                         | 21.5                        | 3,153.2                        | 2,809.4                      | 2,700.3                | 1,016.4                                  |
| 2008-09   | 431          | 11,280                | 8                  | 10,241                           | 4                  | 75,893                         | 23.0                        | 3,195.6                        | 2,862.4                      | 2,754.0                | 1,019.7                                  |
| 2009-10   | 439          | 11,392                | 7                  | 10,632                           | 4                  | 74,654                         | 22.4                        | 3,372.4                        | 2,881.0                      | 2,776.6                | 1,009.6                                  |
| 2010-11   | 439          | 11,392                | 7                  | 10,850                           | 5                  | 75,000                         | 23.0                        | 3,456.7                        | 2,938.6                      | 2,831.8                | 1,029.8                                  |
| 2011-12   | 433          | 11,762                | 7                  | 10,660                           | 5                  | 76,932                         | 22.6                        | 3,427.1                        | 2,964.6                      | 2,857.5                | 1,024.3                                  |
| 2012-13   | 477          | 11,946                | 8                  | 10,872                           | 5                  | 76,757                         | 23.0                        | 3,539.3                        | 3,069.7                      | 2,334.7                | 1,029.1                                  |
| 2013-14   | 442          | 12,310                | 8                  | 11,000                           | 5                  | 76,950                         | 23.0                        | 3,675.5                        | 3,333.4                      | 2,558.7                | 1,036.1                                  |
| 2014-15   | 423          | 13,268                | 7                  | 10,231                           | 4                  | 78,519                         | 23.6                        | 3,824.1                        | 3,369.7                      | 2,945.4                | 1,036.9                                  |
| 2015-16 P | 423          | 13,268                | 7                  | 10,500                           | 4                  | 79,002                         | 23.8                        | 2,955.9                        | 2,542.0                      | 2,029.4                | 780.2                                    |

P : Provisional

Source : Textile Commissioner Organization

TABLE 3.4

## PRODUCTION OF FERTILIZERS, VEGETABLE GHEE, SUGAR AND CEMENT

| Year              |         |                 |                                 |                   |                 | (000 tonnes)                          |       |        |
|-------------------|---------|-----------------|---------------------------------|-------------------|-----------------|---------------------------------------|-------|--------|
|                   | Urea    | Super Phosphate | Fertilizers<br>Ammonium Nitrate | Ammonium Sulphate | Nitro Phosphate | Vegetable Ghee                        | Sugar | Cement |
| 2000-01           | 4,005.1 | 159.6           | 374.4                           | -                 | 282.5           | 835                                   | 2,956 | 9,672  |
| 2001-02           | 4,259.6 | 161.0           | 329.4                           | -                 | 305.7           | 797                                   | 3,247 | 9,935  |
| 2002-03           | 4,401.9 | 147.2           | 335.3                           | -                 | 304.9           | 772                                   | 3,686 | 10,845 |
| 2003-04           | 4,431.6 | 167.7           | 350.4                           | -                 | 363.5           | 888                                   | 4,021 | 12,862 |
| 2004-05           | 4,606.4 | 163.1           | 329.9                           | -                 | 338.9           | 1,048                                 | 3,116 | 16,353 |
| 2005-06           | 4,806.4 | 160.8           | 327.9                           | -                 | 356.6           | 1,151                                 | 2,960 | 18,564 |
| 2006-07           | 4,732.5 | 148.9           | 330.8                           | -                 | 325.8           | 1,180                                 | 3,527 | 22,739 |
| 2007-08           | 4,925.0 | 157.7           | 343.7                           | -                 | 329.7           | 1,137                                 | 4,733 | 26,751 |
| 2008-09           | 4,918.4 | 187.4           | 344.3                           | -                 | 305.7           | 1,060                                 | 3,190 | 28,380 |
| 2009-10           | 5,056.5 | 148.7           | 345.5                           | -                 | 304.4           | 1,075                                 | 3,143 | 31,358 |
| 2010-11           | 4,552.1 | 173.3           | 275.1                           | -                 | 252.3           | 1,091                                 | 4,169 | 28,716 |
| 2011-12           | 4,470.1 | 114.7           | 432.3                           | -                 | 337.6           | 1,102                                 | 4,634 | 29,557 |
| 2012-13           | 4,215.1 | 79.3            | 401.3                           | -                 | 291.9           | 1,138                                 | 5,073 | 31,055 |
| 2013-14           | 4,930.3 | 87.8            | 519.1                           | -                 | 447.1           | 1,185                                 | 5,582 | 31,418 |
| 2014-15           | 5,073.1 | 63.6            | 569.1                           |                   | 501.9           | 1,182                                 | 5,149 | 32,185 |
| <u>July-March</u> |         |                 |                                 |                   |                 |                                       |       |        |
| 2014-15           | 3,805.9 | 47.3            | 361.9                           | -                 | 317.8           | 877                                   | 4,812 | 23,459 |
| 2015-16 P         | 4,319.9 | 48.6            | 531.1                           | -                 | 489.5           | 931                                   | 4,949 | 25,900 |
| P : Provisional   |         | - : Nil         |                                 |                   |                 | Source: Pakistan Bureau of Statistics |       |        |

TABLE 3.5

## PRODUCTION OF SELECTED INDUSTRIAL ITEMS

| Year              | Food and Tobacco          |                                | Jute<br>Textiles<br>(000<br>tonnes) | Rubber                      |                             |                             |                             |
|-------------------|---------------------------|--------------------------------|-------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|                   | Beverages<br>(000 litres) | Cigarettes<br>(Million<br>Nos) |                                     | Motor<br>Tyres<br>(000 Nos) | Motor<br>Tubes<br>(000 Nos) | Cycle<br>Tyres<br>(000 Nos) | Cycle<br>Tubes<br>(000 Nos) |
| 2000-01           | 2,542                     | 58,259                         | 89.4                                | 2,439                       | 3,387                       | 4,056                       | 5,892                       |
| 2001-02           | 2,492                     | 55,100                         | 81.7                                | 2,694                       | 3,419                       | 4,652                       | 7,058                       |
| 2002-03           | 2,289                     | 49,365                         | 95.5                                | 3,360                       | 4,091                       | 5,330                       | 8,942                       |
| 2003-04           | 2,691                     | 55,399                         | 104.0                               | 5,175                       | 4,964                       | 4,768                       | 8,270                       |
| 2004-05           | 3,424                     | 61,097                         | 104.8                               | 5,336                       | 6,279                       | 4,900                       | 9,612                       |
| 2005-06           | 1,161                     | 64,137                         | 104.5                               | 5,942                       | 7,164                       | 5,287                       | 10,204                      |
| 2006-07           | 1,550                     | 65,980                         | 118.0                               | 7,027                       | 10,277                      | 5,182                       | 10,420                      |
| 2007-08           | 1,841                     | 67,446                         | 129.0                               | 6,990                       | 9,627                       | 4,243                       | 9,224                       |
| 2008-09           | 1,894                     | 75,609                         | 137.4                               | 7,089                       | 14,515                      | 3,213                       | 6,876                       |
| 2009-10           | 1,554                     | 65,292                         | 106.2                               | 8,672                       | 20,152                      | 3,405                       | 7,273                       |
| 2010-11           | 1,490                     | 65,403                         | 93.2                                | 9,222                       | 19,108                      | 2,879                       | 6,534                       |
| 2011-12           | 1,812                     | 61,954                         | 94.1                                | 7,011                       | 20,338                      | 3,431                       | 6,846                       |
| 2012-13           | 2,077                     | 67,377                         | 102.8                               | 7,864                       | 20,269                      | 3,429                       | 7,746                       |
| 2013-14           | 2,550                     | 64,482                         | 101.7                               | 8,802                       | 20,825                      | 4,038                       | 8,061                       |
| 2014-15           | 2,954                     | 62,667                         | 94.3                                | 9,058                       | 22,001                      | 4,633                       | 8,391                       |
| <u>July-March</u> |                           |                                |                                     |                             |                             |                             |                             |
| 2014-15           | 2,042                     | 46,790                         | 71.7                                | 6,662                       | 15,985                      | 3,586                       | 6,636                       |
| 2015-16 P         | 2,123                     | 42,892                         | 45.4                                | 7,461                       | 18,708                      | 3,156                       | 5,249                       |
| P : Provisional   |                           |                                |                                     | (Contd.)                    |                             |                             |                             |

TABLE 3.5

## PRODUCTION OF SELECTED ITEMS

| Year              | Chemicals    |                |              |              |                    |                                | Transport, Machinery & Electrical Appliances |                 |               |
|-------------------|--------------|----------------|--------------|--------------|--------------------|--------------------------------|----------------------------------------------|-----------------|---------------|
|                   | Soda Ash     | Sulphuric Acid | Caustic Soda | Chlorine Gas | Paints & Varnishes | Polishes & Creams for Footwear | Bicycles                                     | Sewing Machines | Total TV Sets |
|                   | (000 tonnes) | (000 tonnes)   | (000 tonnes) | (000 tonnes) | (tonnes)           | (mln. grams)                   | (000 Nos.)                                   | (000 Nos.)      | (000 Nos.)    |
| 2000-01           | 217.9        | 57.1           | 145.5        | 14.5         | 10,922             | 906.7                          | 569.6                                        | 26.9            | 97.4          |
| 2001-02           | 215.2        | 59.4           | 150.3        | 15.1         | 10,341             | 920.9                          | 553.4                                        | 24.0            | 450.0         |
| 2002-03           | 280.3        | 56.0           | 164.4        | 15.9         | 3,899              | 935.3                          | 629.7                                        | 30.6            | 764.6         |
| 2003-04           | 286.5        | 64.7           | 187.5        | 17.2         | 5,406              | 950.1                          | 664.1                                        | 35.0            | 843.1         |
| 2004-05           | 297.3        | 91.3           | 206.7        | 19.1         | 15,023             | 959.6                          | 587.9                                        | 36.1            | 908.8         |
| 2005-06           | 318.7        | 94.4           | 219.3        | 18.3         | 17,147             | 969.2                          | 589.6                                        | 39.1            | 935.1         |
| 2006-07           | 330.6        | 96.3           | 242.2        | 17.2         | 23,936             | 978.8                          | 486.3                                        | 52.2            | 608.6         |
| 2007-08           | 364.9        | 102.8          | 248.3        | 18.2         | 26,308             | 988.6                          | 535.5                                        | 57.3            | 716.1         |
| 2008-09           | 365.3        | 97.1           | 245.3        | 16.5         | 29,831             | 998.5                          | 419.9                                        | 50.8            | 402.3         |
| 2009-10           | 409.6        | 84.7           | 182.3        | 16.1         | 30,749             | 1008.5                         | 447.2                                        | 48.6            | 342.9         |
| 2010-11           | 378.0        | 114.7          | 172.0        | 15.1         | 25,673             | 1018.6                         | 345.2                                        | 47.0            | 425.5         |
| 2011-12           | 370.7        | 100.4          | 179.1        | 15.8         | 23,026             | 1028.8                         | 262.1                                        | 39.6            | 268.8         |
| 2012-13           | 366.2        | 89.4           | 182.8        | 15.5         | 28,048             | 1039.0                         | 232.9                                        | 32.8            | 462.9         |
| 2013-14           | 409.1        | 85.3           | 167.4        | 14.9         | 37,236             | 1049.4                         | 203.7                                        | 19.8            | 426.6         |
| 2014-15           | 437.1        | 70.2           | 183.5        | 17.4         | 48,631             | 975.7                          | 210.9                                        | 19.3            | 462.5         |
| <u>July-March</u> |              |                |              |              |                    |                                |                                              |                 |               |
| 2014-15           | 325.6        | 50.5           | 127.7        | 13.4         | 33,142             | 675.1                          | 155.4                                        | 12.9            | 324.0         |
| 2015-16 P         | 345.6        | 63.5           | 161.9        | 12.2         | 40,162             | 681.9                          | 141.9                                        | 11.0            | 332.3         |

P : Provisional

(Contd.)

TABLE 3.5

## PRODUCTION OF SELECTED INDUSTRIAL ITEMS

| Year              | Electrical Appliances          |                                   | Paper & Board                  |                                      | Steel Products       |                          |                         |
|-------------------|--------------------------------|-----------------------------------|--------------------------------|--------------------------------------|----------------------|--------------------------|-------------------------|
|                   | Electric<br>Bulbs<br>(Min.Nos) | Electric<br>Tubes<br>(000 metres) | Paper<br>Board<br>(000 tonnes) | Paper<br>(All Types)<br>(000 tonnes) | Coke<br>(000 tonnes) | Pig Iron<br>(000 tonnes) | Billets<br>(000 tonnes) |
| 2000-01           | 55.2                           | 10,548                            | 246.3                          | 531.1                                | 717.3                | 1,071.2                  | 1,664.7                 |
| 2001-02           | 52.8                           | 10,441                            | 165.1                          | 137.9                                | 694.6                | 1,042.9                  | 1,874.2                 |
| 2002-03           | 58.3                           | 10,844                            | 203.8                          | 148.0                                | 775.2                | 1,140.2                  | 1,874.2                 |
| 2003-04           | 139.4                          | 14,630                            | 225.7                          | 156.8                                | 785.5                | 1,179.9                  | 2,118.9                 |
| 2004-05           | 146.7                          | 19,819                            | 236.5                          | 163.7                                | 772.8                | 1,137.2                  | 2,430.1                 |
| 2005-06           | 143.6                          | 19,992                            | 286.1                          | 167.7                                | 182.3                | 768.0                    | 3,380.6                 |
| 2006-07           | 145.0                          | 21,400                            | 280.4                          | 161.7                                | 326.3                | 1,008.8                  | 3,677.8                 |
| 2007-08           | 129.8                          | 19,524                            | 227.6                          | 192.0                                | 290.9                | 993.4                    | 2,873.8                 |
| 2008-09           | 91.8                           | 11,101                            | 168.8                          | 252.5                                | 423.7                | 791.1                    | 1,943.4                 |
| 2009-10           | 75.5                           | 2,914                             | 178.1                          | 248.7                                | 342.8                | 483.3                    | 1,663.8                 |
| 2010-11           | 79.6                           | 1,180                             | 206.1                          | 228.7                                | 301.7                | 433.1                    | 1,628.9                 |
| 2011-12           | 79.0                           | 1,266                             | 283.0                          | 246.3                                | 192.9                | 249.1                    | 1,616.4                 |
| 2012-13           | 79.7                           | 0                                 | 381.9                          | 232.4                                | 203.3                | 201.4                    | 1,638.5                 |
| 2013-14           | 75.1                           | 0                                 | 465.8                          | 218.7                                | 31.9                 | 89.4                     | 2,128.3                 |
| 2014-15           | 64.6                           | 0                                 | 415.7                          | 204.0                                | 275.8                | 265.5                    | 2,730.9                 |
| <b>July-March</b> |                                |                                   |                                |                                      |                      |                          |                         |
| 2014-15           | 50.9                           | 0                                 | 314.9                          | 155.8                                | 190.8                | 195.7                    | 1,966.4                 |
| 2015-16 P         | 44.3                           | 0                                 | 283.8                          | 173.3                                | 57.4                 | 1.5                      | 2,416.3                 |

P : Provisional

Source: Pakistan Bureau of Statistics

Ministry of Industries &amp; Production

TABLE 3.6

## PERCENT GROWTH OF SELECTED INDUSTRIAL ITEMS

|                   |                |                 |               |          |            |             |        |          |                 | (in %)  |
|-------------------|----------------|-----------------|---------------|----------|------------|-------------|--------|----------|-----------------|---------|
|                   | Cotton<br>Yarn | Cotton<br>Cloth | Jute<br>Goods | Veg.Ghee | Cigarettes | Fertilizers | Cement | Soda Ash | Caustic<br>Soda | Sugar   |
| 2000-01           | 3.10           | 12.10           | 4.60          | 19.60    | 24.02      | 11.10       | 3.80   | (11.30)  | 3.00            | 21.70   |
| 2001-02           | 5.10           | 16.00           | (8.70)        | (4.50)   | (5.40)     | (1.80)      | 2.70   | (1.20)   | 3.30            | 9.80    |
| 2002-03           | 5.90           | 2.40            | 16.90         | (3.20)   | (10.40)    | 2.50        | 9.20   | 30.30    | 9.30            | 13.50   |
| 2003-04           | 0.70           | 17.40           | 8.90          | 15.10    | 12.20      | 9.00        | 18.60  | 2.20     | 14.10           | 9.10    |
| 2004-05           | 18.20          | 35.30           | 0.80          | 18.00    | 10.30      | 7.50        | 27.10  | 3.80     | 10.20           | (22.50) |
| 2005-06           | 11.73          | (2.30)          | (0.30)        | 9.90     | 5.00       | 4.30        | 13.50  | 7.20     | 6.10            | (5.00)  |
| 2006-07           | 11.73          | 8.18            | 12.97         | 2.45     | 2.87       | (2.76)      | 22.49  | 3.74     | 10.45           | 19.16   |
| 2007-08           | 2.44           | 3.95            | 9.29          | (3.63)   | 2.22       | 3.27        | 17.64  | 10.37    | 2.50            | 34.20   |
| 2008-09           | (0.04)         | 0.05            | 6.50          | (6.75)   | 12.10      | 1.58        | 6.09   | 0.11     | (1.18)          | (32.61) |
| 2009-10           | (4.33)         | (0.74)          | (22.68)       | 1.38     | (13.65)    | 3.58        | 10.49  | 12.12    | (25.70)         | (1.44)  |
| 2010-11           | 5.46           | 1.08            | (12.30)       | 1.57     | 0.17       | (8.88)      | (8.43) | (7.70)   | (5.62)          | 32.62   |
| 2011-12           | 0.52           | 0.30            | 0.98          | 1.01     | (5.27)     | 0.08        | 2.93   | (1.93)   | 4.11            | 11.16   |
| 2012-13           | 3.57           | 0.56            | 9.28          | 3.25     | 8.75       | (4.02)      | 5.07   | (1.22)   | 2.11            | 9.48    |
| 2013-14           | 8.62           | 0.68            | (1.07)        | 4.08     | (4.30)     | 16.50       | 1.17   | 11.72    | (8.42)          | 10.03   |
| 2014-15           | 1.09           | 0.08            | (7.21)        | (0.23)   | (2.81)     | 4.56        | 2.44   | 6.83     | 9.85            | (7.75)  |
| <u>July-March</u> |                |                 |               |          |            |             |        |          |                 |         |
| 2014-15           | 1.16           | 0.05            | (8.91)        | (1.33)   | (0.69)     | 0.95        | 2.87   | 9.64     | 1.52            | (6.09)  |
| 2015-16           | 1.54           | 0.43            | (36.65)       | 6.12     | (8.33)     | 15.92       | 10.41  | 6.14     | 26.85           | 2.85    |

Note : Figures in parenthesis represent negative growth

Source: Pakistan Bureau of Statistics