

# **Input-Output Transactions Table 2017-18 Himachal Pradesh**

*Study sponsored by*  
**Department of Economics and Statistics  
Government of Himachal Pradesh**

Report	July
20220701	2022



# **Input-Output Transactions Table 2017-18 Himachal Pradesh**

July 2022



**National Council of Applied Economic Research**

NCAER India Centre, 11 Indraprastha Estate, New Delhi 110 002. INDIA

## **Study Team**

**Study Team:** *Poonam Munjal, K A Siddiqui, Devender Pratap, Palash Baruah, and Asrar Alam*

**Secretarial Assistance:** *Shashi Singh*

**Editor:** *Geeta Sant*

© National Council of Applied Economic Research, 2022

All rights are reserved. The material in this publication is copyrighted. NCAER encourages the dissemination of its work and will normally grant permission to reproduce portions of the work promptly. For permission to reprint any part of this work, please send a request with complete information to the publisher below.

***Published by***

Professor Anil K. Sharma  
Secretary and Operations Director  
The National Council of Applied Economic Research (NCAER)  
NCAER India Centre  
11, Indraprastha Estate, New Delhi-110 002  
Tel: +91-11-2345 2657, 6120 2698  
Email: aksharma@ncaer.org  
www.ncaer.org

***Publications Coordinator***

Jagbir Singh Punia

---

The findings, interpretations, and conclusions expressed are those of the authors and do not necessarily reflect the views of the Governing Body or Management of NCAER.

# FOREWORD

Input-Output transactions tables, or IOTTs, are the systematic presentation of the interdependent relationships among the production sectors of the economy. Devised by the Nobel Prize Laureate, Wassily Leontief, it presents these relationships in monetary terms and is widely used in carrying out the impact analysis of the change in demand of a particular final good on the demand of its inputs. This analysis captures not just the direct but also the indirect impact, latter resulting from the inter-linkages among the production sectors. The sectors with greater inter-linkages induce greater activities across the economy. Such sectors can be prioritised and facilitated by policymakers in developing economic plans.

The construction of IOTTs is a complex exercise and requires enormous data on the input requirement and output flow of a particular economic activity. It starts with the preparation of two of its key pre-requisite matrices, that is, Supply Table and Use Table. The present study prepares these matrices and converts these into IOTT for the state of Himachal Pradesh, which makes this study the first of its kind for any state in India.

I take this opportunity to thank Mr Prabodh Saxena, IAS, Additional Chief Secretary (Finance, Personnel, Planning, Economics and Statistics) and Mr Akshay Sood, IAS, Secretary (Finance, Planning, Economics and Statistics, Cooperation, Housing), Government of Himachal Pradesh for initiating this important study. In the same vein, I express my gratitude to Dr Vinod Rana, Economic Adviser, and Mr. Anupam Sharma, Joint Director, Department of Economics and Statistics, Government of Himachal Pradesh, for the valuable insights and constant cooperation they offered to the NCAER team through the course of this study. Besides, on the behalf of the NCAER team, I wish to thank all the officials of the Department of Economics and Statistics, Shimla, and its district offices for actively participating in the Capacity Building sessions organized by NCAER as part of the study. The report benefitted immensely from their important inputs.

I express my gratitude to all the members of the NCAER study team, including Dr Poonam Munjal, Team Leader; Mr K A Siddiqui, Senior Fellow; Mr Devender Pratap Rana, Fellow; Dr Palash Baruah, Associate Fellow; and Mr Asrar Alam, Senior Research Analyst for their dedicated effort in completing the study. I hope that the study will provide useful insights to the policymakers and stakeholders and will also prove to be a useful contribution to the literature on sub-national IO tables.

**New Delhi**  
July 2022

**Dr Poonam Gupta**  
*Director General*  
NCAER



# CONTENTS

<b>FOREWORD</b> .....	i
<b>LIST OF TABLES</b> .....	iv
<b>LIST OF FIGURES</b> .....	iv
I. Introduction .....	1
I.1. Context of the Study.....	1
I.2. Input-Output Transactions Table .....	2
I.3. Objectives of the Study .....	4
I.4. Structure of the Report.....	4
II. Himachal Pradesh: the Land of Gods.....	5
II.1. Demographic Profile .....	6
II.2. Employment.....	8
II.3. Economic Profile.....	9
II.4. Infrastructure Profile.....	10
II.5. Tourism Profile .....	11
III. Supply and Use Table for Himachal Pradesh.....	13
III.1. Supply Table .....	13
III.2. Use Table .....	14
III.3. Compilation of SUT .....	15
III.4. Methodology for State SUT.....	16
III.5. Adding “Apples” as an additional Product/Industry.....	23
IV. Input-Output Table for Himachal Pradesh .....	43
V. Leontief Inverse Matrix for Multipliers.....	65
V.1. Output Multiplier.....	67
APPENDIX TABLES.....	77

## LIST OF TABLES

TABLE I. 1: SCHEMATIC STRUCTURE OF A STANDARD I-O TABLE .....	3
TABLE III. 1: SCHEMATIC STRUCTURE OF A SUPPLY TABLE .....	14
TABLE III. 2: SCHEMATIC STRUCTURE OF A USE TABLE.....	15
TABLE III. 3: METHODOLOGY AND SOURCES OF DATA OF A SUPPLY TABLE.....	17
TABLE III. 4: GSVA BY INDUSTRIES .....	18
TABLE III. 5: METHODOLOGY AND SOURCES OF DATA OF A USE TABLE .....	20
TABLE III. 6: METHODOLOGY AND SOURCES OF DATA FOR VALUE ADDED AND OUTPUT .....	21
TABLE III. 8: USE TABLE, 2017-18 (RS LAKH) .....	33
TABLE IV. 1: STRUCTURE OF AN INPUT-OUTPUT TABLE.....	43
TABLE IV. 2: PRODUCT X PRODUCT INPUT-OUTPUT TABLE, 2017-18 (RS LAKH) .....	47
TABLE IV. 3: INDUSTRY X INDUSTRY INPUT-OUTPUT TABLE, 2017-18 (RS LAKH).....	56
TABLE V.1: IO TABLE WITH THREE SECTORS.....	66
TABLE V.2: LEONTIEF INVERSE MATRIX .....	68
TABLE A1: AGGREGATION SCHEME FOR INDUSTRIES .....	77

## LIST OF FIGURES

FIGURE II. 1: MAP OF HIMACHAL PRADESH .....	5
FIGURE II. 2: DISTRIBUTION OF POPULATION BY BROAD AGE CATEGORY AND GENDER (%).....	6
FIGURE II. 3: POPULATION PYRAMID (%) .....	7
FIGURE II. 4: DISTRIBUTION OF POPULATION BY BROAD SOCIAL GROUP AND RELIGION (%).....	7
FIGURE II. 5: LABOUR FORCE PARTICIPATION RATE (LFPR) BY REGION AND GENDER .....	8
FIGURE II. 6: UNEMPLOYMENT RATE (UR) BY REGION AND GENDER .....	9
FIGURE II. 7: GROWTH IN GROSS STATE DOMESTIC PRODUCT (CONSTANT PRICES) .....	10
FIGURE II. 8: TOTAL DOMESTIC TOURIST ARRIVALS (IN LAKHS) .....	11
FIGURE II. 9: TOTAL FOREIGN TOURIST ARRIVALS (IN LAKHS).....	12



# I. Introduction

---

## I.1. Context of the Study

Input-Output Transactions Table (IOTT) is the matrix representation of a nation's or a region's economy, and is used to analyse the inter-industry relations therein, depicting how the output of one industry is used as input in other industries, thereby making each industry dependent on other industries both as an user and as a supplier. The credit of the development of this analysis goes to Wassily Leontief (1906-1999)<sup>1</sup> who won the Nobel Prize in Economics for his work in this area.

The flow of output can be represented by following either *industry X industry* approach or *commodity X commodity* approach. In the former approach the flow of output of each industry is presented as its intermediate use for other industries where the sum-total of intermediate and final use of an industry is its total value of output. In the latter approach, the flow of commodities is presented as their intermediate use in the production process of other commodities and the sum-total of each commodity's intermediate and final use is its total value of produce.

In a nutshell, an IOTT is the depiction of all monetary transactions that take place among the production sectors (industries in the case of industry approach and commodities in the case of commodity approach) and also with the final users. It helps in bringing together all the information on inputs, outputs, gross value added, incomes and expenditures. The main objective of preparing an IOTT is to reconcile the components of all three measures of Gross Domestic Product (GDP), following income approach, production approach and expenditure approach.

In India, the first official Input-Output Table was prepared by the Central Statistics Office, along with the erstwhile Planning Commission, for the year 1968-69. This table was released in 1978 and was in consistent with National Accounts Statistics of 1968-69. Subsequent to its completion, IOTTs were published on regular basis, with an approximate gap of five years. IOTT for the year 1968-69 was published with 60 sectors and subsequently the tables consisted of 115 sectors since 1973-74 till 1998-99. The IOTT for 2003-04 and 2007-08 contain 130 sectors. The

---

<sup>1</sup> **Wassily Leontief** (August 5, 1905, Munich, Germany – February 5, 1999, New York) was an economist notable for his research on development of the linear activity model of General Equilibrium and the use of input-output analysis that results from it. His other contributions include studies in international trade in which he documented his famous Leontief paradox. He is also credited for establishing the composite commodity theorem. It was in 1941 when he developed an input-output table for American economy. It was this work, with some refinements, that earned him the Nobel Prize in Economics in 1973.

IOTT of 2007-08 was the last table published by CSO. Recently, CSO has started publishing the Supply and Use Tables (SUT), the first being for the year 2011-12 and then annually till 2015-16.

At state level, there are very few IOTTs available, most of which have been compiled by researchers for their own research purpose. None of the states prepare IOTT on regular basis. Given the importance of IOTT in making it consistent with the state GDP accounts and its historic relevance in framing and implementing economic planning policies, the Government of Himachal Pradesh decided to prepare its first Input-Output Transactions Table for the years 2017-18. This report presents this IOTT, along with the detailed methodology.

## ***1.2. Input-Output Transactions Table***

Input-output tables are derived from the Supply and Use Tables, which show the process of flows of goods and services through the economic system between producers and consumers. The transactions involved in the production process are individuals (persons or households), establishments (production units of businesses and governments), non-business entities such as non-profit institutions, and governments. An input-output table presents a detailed analysis of the process of production and the use of goods and services (products) and the income generated in that production; they can be either in the form of (a) Supply and Use Tables or (b) symmetric input-output tables.

With regard to the state-level SUT and I-O Tables, few approaches are found to have been followed by different researchers. These are:

1. Survey approach – This is in line with the methodology followed in preparing the national level SUT and I-O tables. Though the method ensures accuracy but turns out to be very expensive and time-consuming.
2. Non-survey approach – This further includes a few approaches, the easiest of which is to use the structure of national I-O table and apply on the state economic aggregates. This method assumes that the pattern of national-level production-related transactions holds good for the region/state also. Hence the technical coefficients for the region/state of reference are the same as those for the country and also those for other regions/states. In another non-survey method, techniques like location quotient and commodity balance approach are used. However, these methods do not follow the SNA recommendations for preparing the matrices for IOTT.
3. Hybrid method – In this method, the data are obtained from various sources like state cost of cultivation studies, state/pooled sample NSS enterprise and household surveys and state/pooled ASI surveys, etc.

The standard I-O table can be viewed as consisting of four major components (also known as blocks or quadrants). The schematic structure of a standard I-O structure is given in Table I.1.

***Table I. 1: Schematic Structure of a Standard I-O Table***

	<b>Sectors</b>	<b>Final demand Sectors</b>	<b>Total</b>
<b>Sectors</b>	Block A Inter-sector Transactions	Block B Final demand (sales to households, visitors, government, investment, and exports)	Total sector output (sales)
<b>Final Payments Sectors</b>	Block C Primary payments (payments for labour, capital, land, loans, taxes, and imported goods)	Block D Primary Inputs to Final Demand sectors	Total payments
<b>Total</b>	<b>Total sector input (purchases)</b>	<b>Total Expenditures</b>	

Block A presents the inter-sector transactions showing the intermediate sales and purchases of goods and services among the production sectors of an economy. The rows of this block depict the value of each sector's output being demanded by other sectors as inputs in their production process. Whereas the columns give the inputs that the sector purchases from other sectors.

Block B, also called the block of final demand, shows the sales of goods and services from row sectors to the final users, that is, users other than the producing sectors. Block C is also termed as the block of primary inputs, and lies below Block A. This block gives the cost of production of a sector other than the cost of inputs from other sectors (given in Block A). The primary inputs presented in this block are the payments to the factor owners in the form of wages and interest payments. These are the land, labour and capital costs of a production process. Other primary inputs are indirect tax payments to the government. The last two rows of this block are Gross Value Added and the Total Value of Output for each sector.

Block D is an intersection of Block C and Block B and records the primary inputs into final demand components. This block lies below Block B.

As mentioned before, the key prerequisites of an I-O Table are the Supply Table and Use Table. The Supply Table and Use Table are (product X industry) matrices but their entries are different. In the Supply Table, each column presents the values of products (kept in rows) produced by industry or the products supplied by industries to the economy, distinguishing the domestic supply from foreign supply (imports). These are at basic prices. The total supply of each product at the purchasers' price has been obtained by adding taxes less subsidies on products and trade and transport margins.

On the other hand, a Use Table shows the use of the product (a good or service and kept in rows) by the type of use (kept in columns), that is, as intermediate consumption by industries, final consumption, gross capital formation, and exports. They are all at purchasers' prices.

In India, the SUTs were not prepared until the Central Statistics Office (CSO) released India's first and second SUT for the years 2011–12 and 2012–13. Later, annual SUTs till 2015-16 were also released. These tables have been compiled at a level of disaggregation of 140 products and 66 industries. These 140 product groups have been taken up keeping in view the availability of product details from the data sources and also the products/items included in the compilation of the Index of Industrial Production (IIP). Similarly, 66 industries have been considered keeping in view the requirements of the NAS.

### ***I.3. Objectives of the Study***

The objective of the study is to prepare the Input-Output Transactions Table for Himachal Pradesh for 2017-18.

The detailed scope of work is the following:

- Prepare Supply and Use Tables (SUT), which are pre-requisites of an I-O table.
- Get data for SUT from different sources – mainly secondary and also primary, wherever required.
- Conversion of SUT to consistent IOTT.
- Training to the officials of Department of Economics and Statistics (DES).

### ***I.4. Structure of the Report***

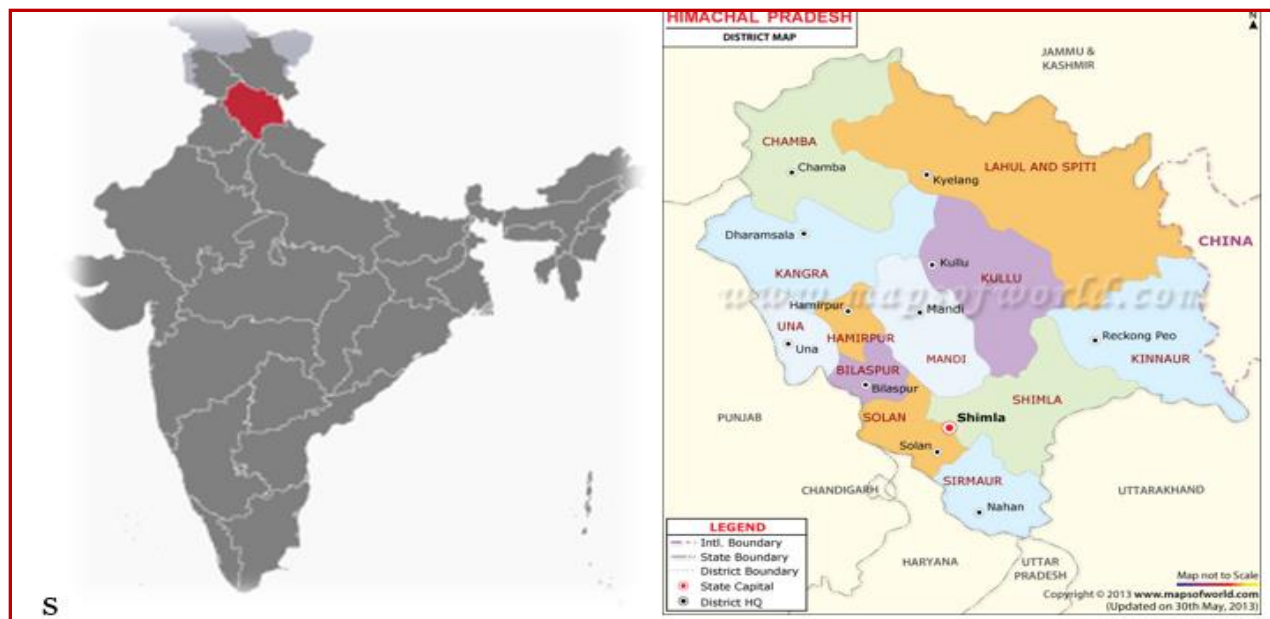
The report is structured as follows. This chapter presented the context of the study, brief note on Input-Output Transactions Table, its relevance to the policy makers and the broad objectives of the study. Chapter 2 provides the demographic, economic and infrastructural profile of the state. Chapter 3 describes the concept of Supply and Use Tables (SUT), data sources and the methodology to prepare them. Chapter 4 provides the methodological details of the preparation of IOTT using SUT. Chapter 5 presents the SUTs and IOTT in detail. The concluding chapter summarises the report.

## II. Himachal Pradesh: the Land of Gods

The State has derived its name from the great Himalayan Ranges and is also known as the “Land of Snowy Mountains.” Himachal Pradesh is home to scenic mountain towns and resorts situated in the northern part of India among the western Himalayas. Host to the Dalai Lama, this snow-laden province has a strong Tibetan presence which can be seen very prominently in Tibetan New Year celebrations.

On 25<sup>th</sup> January 1971, Himachal Pradesh was made a full-fledged State. Himachal Pradesh is bounded by the state of Jammu & Kashmir to the North, Punjab to the West and Haryana to the South, Uttarakhand to the South-East and by the Tibet Autonomous Region of China to the East (Fig. II.1). It offers a multi-textured display of lofty snow-clad mountains, deep gorges, thickly forested valleys, large lakes, terraced fields, and cascading streams. This state has two capitals - one is its largest city Shimla which is called the summer capital and the other is Dharamshala, an upcoming smart city and called state’s winter capital.

**Figure II. 1: Map of Himachal Pradesh**



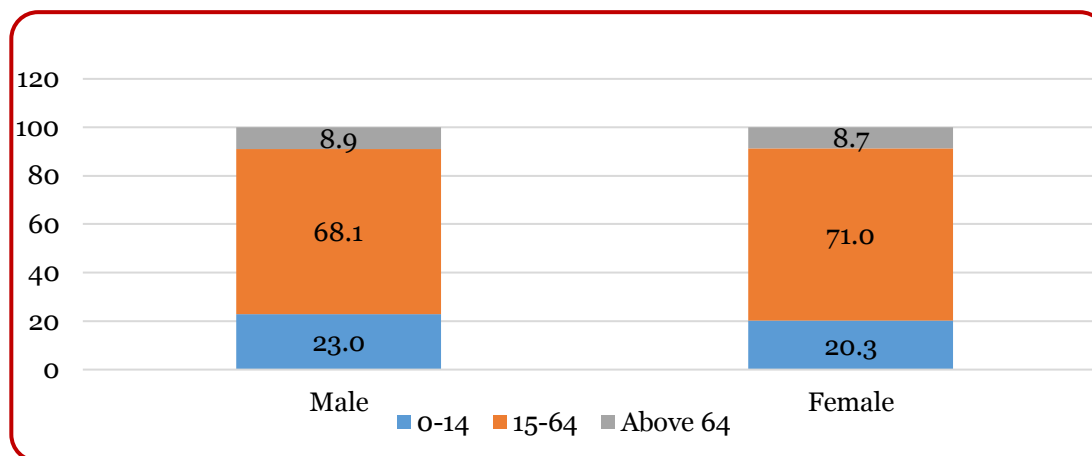
**Source:** District map of Himachal Pradesh (mapsofindia.com).

## **II.1. Demographic Profile**

As per Census 2011, the total population of Himachal Pradesh is/was 68,64,602 persons, out of which 34,81,873 are males and 33, 82,729 are females. Almost 90 per cent of the state's population lives in rural areas. The sex ratio stood at 972 (an increase from 896 in 2001) females per 1000 males, higher than the national average of 943 females per 1000 males. . The population density of the state is 123 per sq. km which is lower than the national average of 368 per sq. km and it stood at the 21<sup>st</sup> place on the population chart. The literacy rate of the population is 82.8 per cent with 89.53 per cent for males and 75.93 per cent for females.

More recent data on demographical details may be obtained from the survey conducted by National Sample Survey Office during 2017-18 on “Household Social Consumption: Education and Health”. Figure II.2 shows the distribution of population by broad age group and gender, for the year 2017-18. The proportion of young people in the age group of 0-14 years among male and female population is estimated at 23.0 and 20.3 per cent respectively. About 68 per cent of the total male population belong to the age group of 15-64 years, whereas only 9 per cent fall in the age group of above 64 years. The proportion of people of age 15-64 years, among female population, is slightly higher, at 71.0 per cent, than the same among male population.

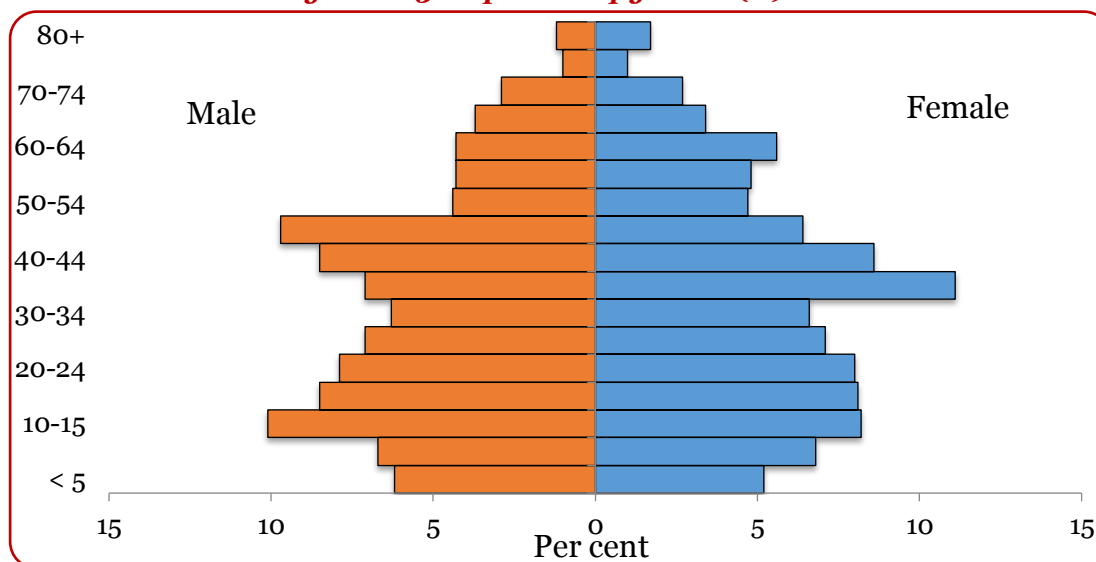
**Figure II. 2: Distribution of Population by broad Age category and Gender (%)**



**Source:** “Household Social Consumption: Education”, NSSO, 2017-18.

Figure II.3 shows the age structure of the state population presented in the form of population pyramid for the year 2017-18. An examination of this population pyramid reveals a noticeable larger young male population (0-29 years) as compared to female population of the same ages. On the other hand, looking at the older population (45 years and above), the female population is found to be larger when compared to the male population of the same ages.

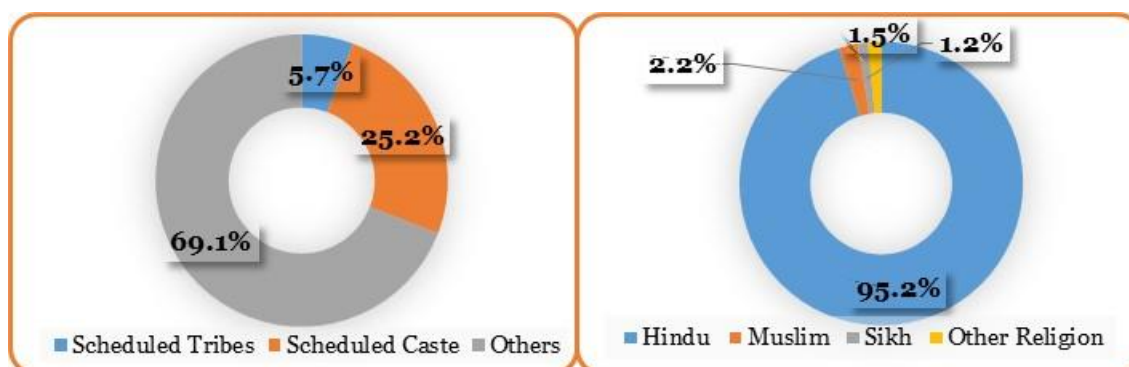
***Figure II. 3: Population pyramid (%)***



**Source:** “Household Social Consumption: Education”, NSSO, 2017-18.

Figure II.4 shows percentage distribution of population by social group and religion. As per census 2011, the scheduled tribe and scheduled caste constitute 6 and 25 per cent of population in the state. As per the religion wise population distribution, Hindus account for 95 per cent of the population, followed by Muslims, who account for 2.2 per cent, and people belonging to other religions sum up to around 2.7 per cent of the total population.

***Figure II. 4: Distribution of Population by broad Social Group and Religion (%)***



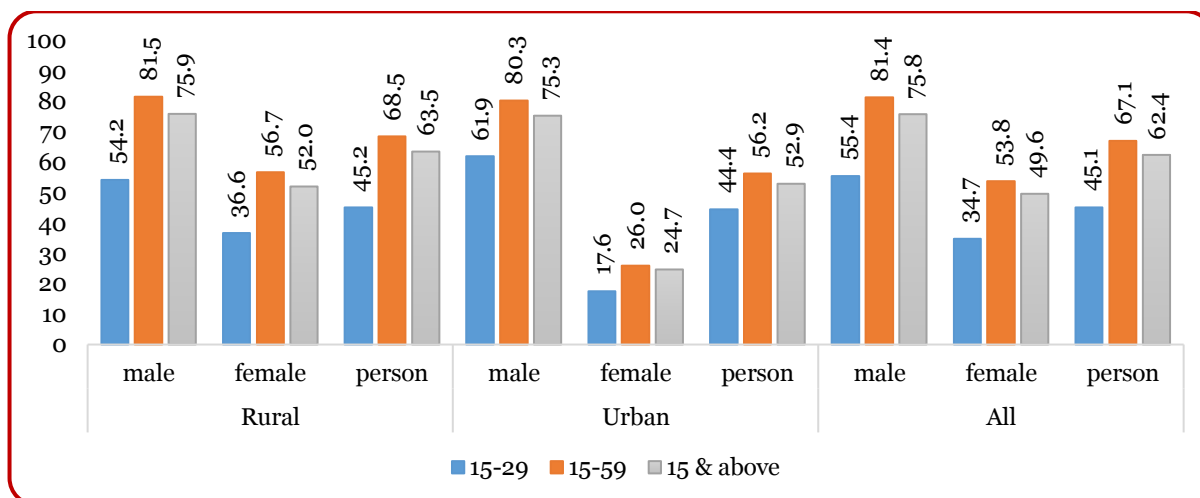
**Source:** “Household Social Consumption: Education”, NSSO, 2017-18.



## **II.2. Employment**

Figure II.5 shows the labour force participation rate by broad age categories, gender and regions for the period of 2017-18. According to the latest annual employment-unemployment survey, “Periodic Labour Force Survey (PLFS)”, conducted by National Sample Survey Office, during 2017-18, in the rural areas 45.2 per cent, 68.5 per cent and 63.5 per cent of the total population within the age group of 15-29 years, 15-59 years and 15 years and above respectively are either currently employed or are seeking employment. The same is estimated to be 44.4 per cent, 56.2 per cent and 52.9 per cent of the population in the corresponding age groups in the case of urban areas. This proportion is estimated at 75.9 per cent for males and 52.0 per cent for females in the rural areas, and 75.3 per cent for males and 24.7 per cent for females in the urban areas for the age group of ‘15 & above’.

***Figure II. 5: Labour force participation rate (LFPR) by Region and Gender***

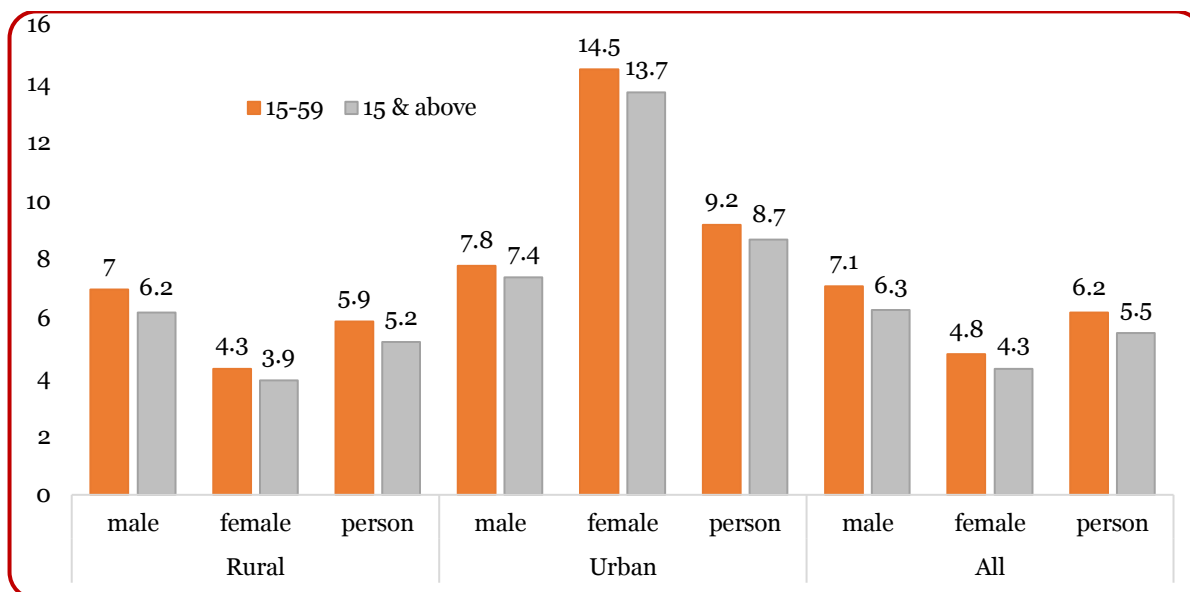


**Source:** “Periodic Labour Force Survey”, NSSO, 2017-18.

The unemployment rate in the state was found to be around 5.5 per cent for 15 & above age group for the 2017-18. The unemployment rate for men was 6.3 and 4.3 per cent for females. The unemployment rate among the population within the age group of 15-29 years was found to be higher as compared to other age groups (Fig. II.6).



***Figure II. 6: Unemployment Rate (UR) by Region and Gender***



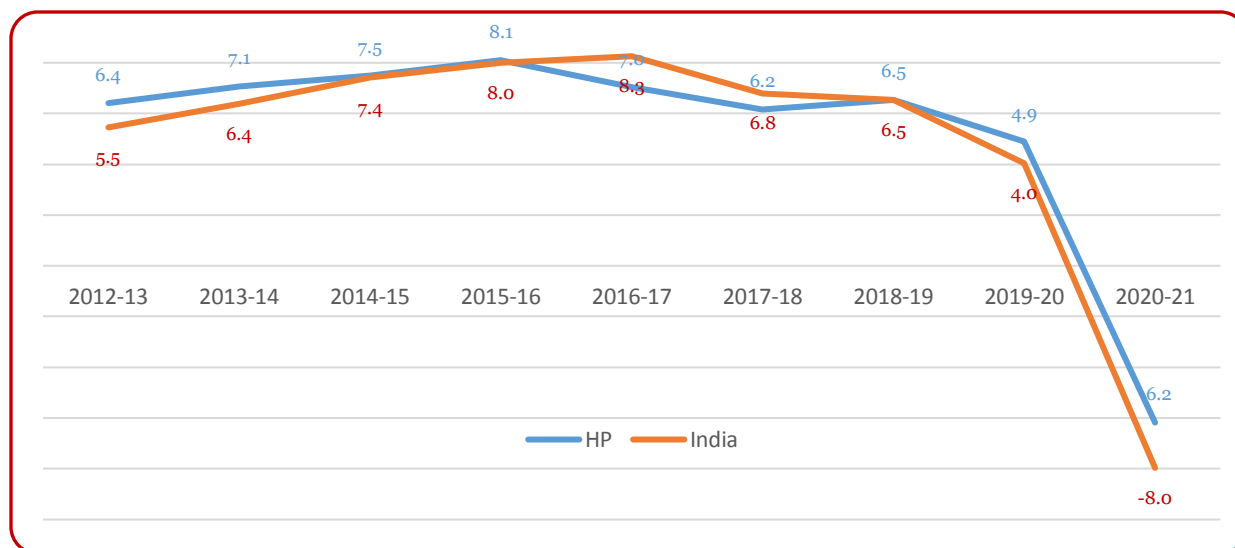
**Source:** “Periodic Labour Force Survey”, NSSO, 2017-18.

### ***II.3. Economic Profile***

The state is doing very well with respect to economic growth, driven especially by industrial and tourism growth. Besides, agriculture, horticulture, hydropower are also important traditional constituents of the state's economy. The state is particularly known for the abundant production of off-season vegetables, exotic fruits and vegetables and various varieties of flowers and carnation.

The state's economic growth, in terms of year-on-year growth in Gross State Domestic Product (GSDP), has been faster than the national growth for most of the years since the inception of new GDP series, that is, 2011-12 (Central Statistics Office, Ministry of Statistics and Programme Implementation). The estimates of GSDP growth for 2019-20 is 4.9 per cent, higher than the national growth of 4.0 per cent (Fig. II.7). In 2020-21, when India's GDP suffered a loss of 8.0 per cent resulting from pandemic and several lockdown restrictions, HP's GSDP fell by a lower rate of 6.2 per cent.

***Figure II.7: Growth in Gross State Domestic Product (Constant Prices)***



**Source:** Central Statistics Office.

## ***II.4. Infrastructure Profile***

The state has a total area of 55,673 sq. km and has a common border with many Indian states. Its rivers are perennial and are fed by snow and rainfall. These are Chandra Bhaga or the Chenab, the Ravi, the Beas, the Satluj, and the Yamuna. The state has predominantly hilly and inaccessible areas. However, roads have been built and many bridges have been constructed to make these areas easily accessible.

Himachal has good connectivity through developed roadways and also airways. This state has a road network of 28,208 km, including eight National Highways (NH) that constitute 1,234 kilometres and 19 state highways with a total length of 1,625 kilometres. Some roads are closed during winter and monsoon seasons due to snow and landslides. It has three domestic airports, namely Gaggal airport in Kangra district, Bhuntar airport in Kullu District, and Shimla airport in Shimla district.

Himachal Pradesh has two railway lines - broad-gauge and narrow-gauge lines. The broad gauge railway line connects the Una Himachal railway station to Nangal Dam in Punjab and runs to Daultpur. It is an electrified track since 1999. The narrow-gauge railway line between Kalka and Shimla, popular among tourists is one of the UNESCO World Heritage Sites. This train passes through many tunnels and bridges. Another narrow gauge line between Pathankot and Jogindernagar runs through a maze of hills and valleys. The total length of the narrow-gauge railway track is 259 kilometres.

## **II.5. Tourism Profile**

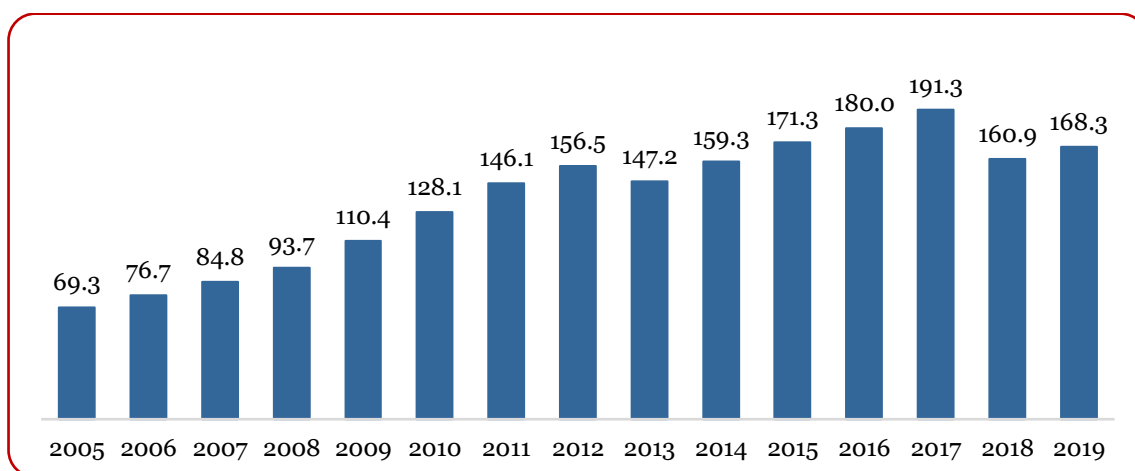
With the direct and indirect contribution of 7.8 per cent in the state's GDP, tourism sector of Himachal Pradesh has emerged as one of the important and major contributor in the state's economy. The natural scenic beauty, thickly forested valleys, snow-capped mountains, perennial snow-fed rivers, clean and peaceful environment and sacred shrines makes the state a perfect tourist destination.

The state has 28 Wildlife Sanctuaries and five national parks. The presence of these national parks and wildlife centuries shows a huge potential for wildlife and natural tourism in the state. Number of heritage buildings like Bahadurpur port, war memorials, etc. are few other tourist attractions in the state. UNESCO in 2008 added the Kalka-Shimla railway which is popularly known as 'toy train' as a world heritage site.

Realizing the potential of this sector and putting it in the high priority, the state government has developed an appropriate infrastructure for its development. The efforts of these development plans have translated into significant rise in the domestic and also foreign tourist inflows in the state in the last few years.

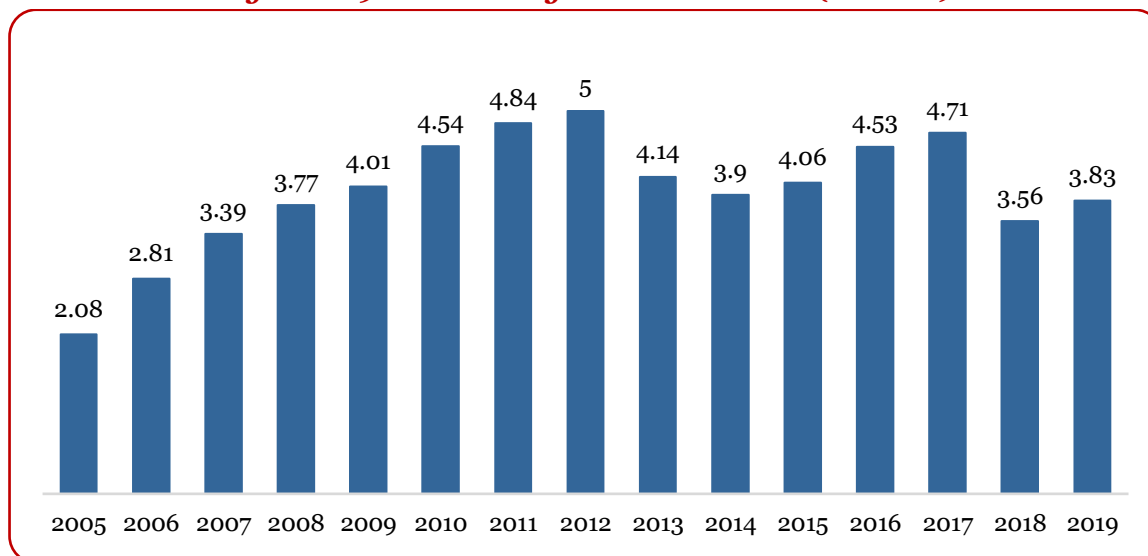
In 2019, approximately 168.29 lakh domestic tourists visited the state, as compared to 69.28 lakh domestic tourists in 2005, implying an increase of 143 per cent over the period (Figure II.8). During the same period, foreign tourist arrivals increased from 2.08 to 3.83 lakh, implying a jump of 84.1 per cent (Figure II.9). According to DES, Himachal Pradesh, there were 3679 registered hotels/guest houses in the state, in December 2019.

**Figure II. 8: Total Domestic Tourist Arrivals (in lakhs)**



Source: DES, HP.

**Figure II. 9: Total Foreign Tourist Arrivals (in lakhs)**



Source: DES, HP.

Among the districts, Kullu tops the tourist footfalls in the state with almost 18.3 per cent of total tourist footfall, followed by Shimla (18.2 %) and Kangra (13.5 %) district. Kullu and Shimla are known for its mountains and scenic beauty and are among the most popular hill stations in northern India. While, Kangra is notably famous for its temples.

## **III. Supply and Use Table for Himachal Pradesh**

---

Supply and Use Tables (SUTs) are a comprehensive representation of all the economic transactions that take place between various actors/sectors of an economy, resulting in income generation during a particular reference period. These also conform to the internationally standardized data compilation and collation framework. The most important characteristic of SUTs is the presentation of Gross Domestic Product (GDP) of an economy through all the three approaches, namely, production, expenditure and income. This helps in making the three estimates consistent with each other. It is for this reason that the United Nations System of National Accounts (SNA1993 and SNA2008) recommends the compilation of SUTs as an essential founding step in establishing an effective statistical system in any country.

The SUTs of an economy also provide the basic framework for the construction of its Input-Output Transaction Table (IOTT). For this study, which involves the preparation of IOTT at state level, that is, for Himachal Pradesh, it is imperative to first prepare the SUTs for the state. This chapter presents the basic concepts of these tables, data sources used in their preparation and methodology adopted in this study.

### ***III.1. Supply Table***

The Supply Table is a matrix of products and industries, where products are shown in rows and industries in columns. The products refer to both goods and services. The industries are enterprises in agriculture, manufacturing, construction, trade, transport and other services. The columns present the monetary values, in basic prices (bp), of products and by-products which industries supply to the economy in their production process. This represents the domestic production. In addition to this, the matrix also has a column on imports showing values of imports of products and columns for valuation adjustments, that is, Trade and Transport Margins (TTM) and Indirect taxes less subsidies on products.

It has to be noted that Imports (I) of goods and services are adjusted to cost, insurance, and freight/free on board (CIF/FOB) for consistency to basic price valuation. TTM pertain to only goods and not services. Trade Margin is the difference between the sales of goods for resale and goods purchased for resale. Transport margin, on the other hand, covers the transport cost of goods from place of seller (factory) to purchaser (store). Net Indirect tax on each product is calculated as sum of consumption tax on final product (Goods and Service Tax, GST) and import tax minus the subsidy on product and import duties.

The sum-total of each industry column depicts the total value of its production, at basic prices. Further aggregation of these sum-totals represent the total value of domestic production in an economy. Combining this with total value of imports gives the total value of supply of goods and services, at basic prices. After adding TTM and net indirect taxes on products, this value of supply of goods and services is derived at purchaser's price (pp).

The schematic structure of a simplified Supply Table, comprising three products (P1, P2 and P3) and three industries (I1, I2 and I3), is presented below for illustration.

***Table III. 1: Schematic Structure of a Supply Table***

Product\Industry	I1	I2	I3	Domestic output at bp (1 + 2 + 3)	Imports	Supply at bp (4 + 5)	TTM	Taxes less subsidies on products	Supply at pp (6 + 7 + 8)
	1	2	3	4	5	6	7	8	9
P1	Domestic Production Matrix, at basic prices						Valuation Matrix		
P2									
P3									
Output at basic prices									

**Source:** NCAER compilation.

### ***III.2. Use Table***

Like Supply Table, Use Table is also a matrix of products and industries, where products are shown in rows and industries in columns. However, Use Table describes how various products (or goods and services) are used as inputs in the production process of industries and used as final products by final users. Hence, Use Tables are presented in purchaser's price (pp). Each product's use in the industrial production is called its intermediate demand or intermediate consumption and its use by final users is called final demand or final consumption. The final users are disaggregated into the following:

- Private Final Consumption Expenditure (PFCE) - consists of expenditure incurred by resident households and by Non-profit Institutions Serving Households (NPISH) on consumption of goods or services.
- Government Final Consumption Expenditure (GFCE) - consists of expenditure incurred by general government on both individual and collective consumption services.
- Gross Capital Formation (GCF) – refers to the use of products as capital formation. This is further divided into Gross Fixed Capital Formation (GFCF) and Change in Stocks (CIS). GFCF includes residential, non-residential buildings and other construction; machinery and equipment; purchases and development of computer software, and costs of mineral

exploration. CIS refers to the difference between the closing and opening stock of inventory. Its positive entry indicates the value of goods and services produced or imported during the reference period but not completely used during that period. On the other hand, its negative entry indicates the values of goods and services produced or imported in an earlier period but used in the reference period.

- Export – refers to the use of final products for external market.

The schematic structure of a simplified Use Table is presented in Table III.2 for illustration.

***Table III. 2: Schematic Structure of a Use Table***

Product\Industry	I1	I2	I3	Intermediate Demand (1 + 2 + 3)	PFCE	GFCE	GFCF	CIS	Exports	Final Demand (5 to 9)	Total Use at pp (4 + 10)
	1	2	3	4	5	6	7	8	9	10	11
P1	Intermediate Use Matrix, at purchaser's price (pp)				Final Demand Matrix						
P2											
P3											
Intermediate Inputs											
GVA											
Total Output (GVA+Inputs)											

**Source:** NCAER compilation

It should be noted that since Supply Table is at basic prices and Use Table is at purchaser's price, the Supply Table needs to be revalued to purchaser's price by adding taxes less subsidies on products and also adding trade and transport margins.

### ***III.3. Compilation of SUT***

The compilation of SUTs for this study has been done in the similar way as it is done for national level. The national level SUTs for the years 2011-12 to 2015-16 have been compiled with 140 products and 66 industries. These 140 products were identified keeping in view the availability of data from different data sources and also in view of products included in constructing the Index of Industrial Production (IIP).

The 140-sector classification of products is based on the National Product Classification for Manufacturing Sector (NPCMS) used in the Annual Survey of Industries (ASI). For the services category, the National product Classification for Services Sector (NPCSS) is used. On the other hand, the 66-sector classification of industries is based on the National Industrial Classification

2008 comprising 29 products of agriculture and allied activities, 11 sectors of mining, 72 sectors for manufacturing and 28 sectors for services.

The Supply-Use equation for any product in an economy is expressed as follows:

$$\text{Output} + \text{Imports} = \text{Intermediate consumption} + \text{PFCE} + \text{GFCE} + \text{GFCF (including CIS and valuables)} + \text{Exports}.$$

The compilation of SUT is done by maintaining the mathematical identity, wherein due adjustments are made for price differentials with respect to items on both sides of the equation, which are presented in Supply Table and Use Table respectively. Both the tables are to be presented in same price level, that is, purchaser's price. Since Output at left hand side is at basic prices, net taxes (taxes on products minus subsidies) need to be added to this side. The above equation can then be re-written as:

$$\text{Output} - \text{Intermediate consumption} + \text{Taxes on products} - \text{Subsidies on products} = \text{PFCE} + \text{GFCE} + \text{GFCF (including CIS and valuables)} + \text{Exports} - \text{Imports}.$$

Both sides of this equation represent GDP at market prices where left hand side shows production approach and right hand side shows expenditure approach of GDP derivation.

This study involves the construction of SUTs at state level. The data used in compiling these SUTs are similar to that used in compilation of national level SUT, to the extent possible. For the items or parameters for which data are not available at state-level, national level structure has been used.

The key data used in the compilation of SUT for Himachal Pradesh, along with their sources, are the following:

- Output and GVA data for various crops; DES, HP
- Output data for livestock, fishery, and forestry sectors; DES, HP
- Unit level data of Annual Survey of Industries (ASI), 2015-16; MoSPI
- Unit level data of Unincorporated Non-Agricultural Enterprises (Excluding Construction) Survey, 2015-16; National Sample Survey (NSS), MoSPI
- GSVA by industries, 2017-18; DES, HP and MoPSI
- Key Indicators of Household Consumer Expenditure in India, 2011-12; NSS, MoSPI
- Supply and Use Table, India, 2015-16; MoSPI

### ***III.4. Methodology for State SUT***

In order to prepare the Input-Output table for the state of Himachal Pradesh, the pre-requisite matrices, that is, Supply Table and Use Table were prepared first, which were later converted to IOTT using the standard international guidelines. This is the first time in India that a state-level IOTT has been prepared using this methodology which is aligned with international guidelines.



In order to prepare the SUTs, it is first made sure that the control totals are as per the available data from official sources. The control totals of columns of Supply Table are values of output of 66 industries, as seen in Table III.3. The other control totals for the columns are aggregate values of Imports, Product Taxes less subsidies and Trade and Transport Margin (TTM). The aggregate value of imports is estimated using the values of Trade Volume and Trade Balance for Himachal Pradesh, as given in the Union Economic Survey, 2019-20, Volume 1. The aggregate value of product taxes less subsidies is given in the GSDP statement and the aggregate value of TTM is always nil.

For the rows of Supply Table, values of output of 140 products are equal to the total values of use of these products, as obtained in the Use Table.

For the intermediate values of Supply Table, the state-specific structure, as obtained from ASI and NSS enterprise survey data have been used for manufacturing industries. The All-India structure, as obtained from All-India SUT, has been used for the services industries. The methodology and the data sources for preparing the Supply Table are presented in Table III.3.

***Table III. 3: Methodology and Sources of Data of a Supply Table***

Product/Industry	Agri & Allied	Mining & Quarrying	Manufacturing	Construction	Electricity, Gas & Water Supply	Services	Imports	TTM	Taxes less subsidies on
	1	2	3	4	5	6	7	8	9
P1	ES information	ES information	State specific ASI & NSS structure	All India structure	All India structure	All India structure	All India structure	All India structure	All India Rates
P2									
P3									
Output at basic prices	DES information	All India Value Added to Output Ratio	State Industry Specific Value Added to Output Ratio	All India Value Added to Output Ratio	State Industry Specific Value Added to Output Ratio for Electricity and All India VA/Q ratio for Gas & Water Supply	State Industry Specific VA/Q Ratio, All India VA/Q ratio for Railway and Air Transport, Storage & Warehousing, Financial and Insurance Services, Ownership of Dwellings and Public Administration & Defence	Economic Survey – Chapter 11	Computed	DES information

**Source:** NCAER compilation.

Similarly, the control totals of columns of Use Table are values of output, which are obtained from DES for agriculture sector and using All-India Value Added to Output Ratios for manufacturing and services sectors. Besides, the control totals are the Gross Value Added (GVA) of industries. These GVA values are obtained from DES, HP but were available at a fairly aggregated level (Table III. 4). These have been disaggregated to arrive at GVA for all the 66 industries, using

actual values (for those available) and using Value Added to Output Ratio as seen at the national level.

***Table III. 4: GSVA by Industries***

S.No.	Economic Activity/Sector	2017-18 unadjusted	2017-18 adjusted
<b>1.</b>	<b>Agriculture, Forestry &amp; Fishing</b>	<b>1610543</b>	<b>1647289</b>
1.1	Crops	965837	965837
1.2	Live stock	165890	165890
1.3	Forestry & Logging	462619	462619
1.4	Fishing	16197	16197
<b>2.</b>	<b>Mining &amp; Quarrying</b>	<b>36746</b>	<b>36746</b>
<b>3.</b>	<b>GVA Manufacturing ( Organised &amp; unorganised)</b>	<b>3896547</b>	<b>3896547</b>
3(a)	GVA Unadjusted Manufacturing (Organised)	3963853	3822130
3.1	Food Products, Beverages and Tobacco	205852	198492
3.2	Textiles, Apparel and Leather Products	182419	175897
3.3	Metal Products	125169	120694
3.4	Machinery and Equipment	522719	504030
3.5	Other Manufactured Goods	2857254	2755096
3.6	NDCU's + DCU's	70440	67922
3(b)	GVA Unadjusted Manufacturing (Unorganised)	77177	74417
3.1	Food Products, Beverages and Tobacco	3463	3339
3.2	Textiles, apparel and Leather Products	177	170
3.3	Metal Products	15804	15239
3.4	Machinery and Equipment	14436	13920
3.5	Other Manufactured Goods	43297	41749
	Total Un-Adjust. GVA(3a+3b)	4041030	3896547
	FISIM	144482	
<b>4.</b>	<b>Electricity, Gas, Water Supply &amp; Other utility services</b>	<b>822847</b>	<b>897033</b>
4.1	Electricity	842184	772533
4.2	Gas	2213	2030
4.3	Water Supply	45822	42032
4.4	Remediation and Other Services	6815	6251
4.5	GVA Unadjusted for FISIM	897033	897033
	FISIM	74187	
<b>5.</b>	<b>GVA Construction</b>	<b>949890</b>	<b>949890</b>
5.1	General Government Including Local Bodies	169215	163021
5.2	Departmental Commercial Undertakings or Departmental Enterprises	5115	4928
5.3	Non Departmental Commercial Undertakings or Non- Departmental Enterprises	497	479
5.4	Households	724867	698336
5.5	Residual	86285	83127
	GVA Unadjusted for FISIM	985979	949890
	FISIM	36089	

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

S.No.	Economic Activity/Sector	2017-18 unadjusted	2017-18 adjusted
6.	<b>Trade, Repair, Hotel &amp; Restaurant</b>	<b>937350</b>	<b>937350</b>
6.1	Trade &,Repair Services	787168	787168
6.2	Hotel & Restaurant	150182	150182
7.	<b>Transport, Storage &amp; Communication</b>	<b>648864</b>	<b>648864</b>
7.1	Railways	1788	1788
7.2	Transport by Other Mean	384907	384907
7.2.1	Road Transport	377569	377569
7.2.2	Water Transport	0	0
7.2.3	Air Transport	1316	1316
7.2.4	Services Incidental to Transport	6022	6022
7.3	Storage	136	136
7.4	Communication & Services related to broadcasting	262033	262033
8.	<b>Financial Services</b>	<b>377042</b>	<b>377042</b>
9.1	Real estate, renting & professional services	353720	352543
9.2	Ownership of Dwellings (Rural & Urban)	1074814	1071237
	GVA Unadjusted for FISIM	1428534	1423780
	FISIM	4754	
9.	<b>Real Estate, ownership of dwellings &amp; professional services</b>	<b>1423780</b>	<b>1423780</b>
10.1	Central Government	41233	41233
10.2	State Government	467583	467583
10.3	Local Bodies	32393	32393
10.4	Autonomous Institutions	19341	19341
	Net Value Added ( 10.1 to10.4)	560550	560550
	CFC	122739	122739
10.	<b>Public Administration.</b>	<b>683289</b>	<b>683289</b>
11.1	Education	998615	979568
11.2	Health & Social Work	157763	154754
11.3	Other Remaining Services (GG+Pvt. Corp+Co-op+Pvt.Un-incorpo+ pvt. HH with employed)	141388	138691
	GVA Unadjusted for FISIM	1297766	1273014
	FISIM	24752	
11.	<b>Other Services</b>	<b>1273014</b>	<b>1273014</b>
12.	<b>Gross State Value Added at basic prices</b>	<b>12659912</b>	<b>12659912</b>
13.	Product Taxes	1371671	1371671
14.	Product Subsidies	176473	176473
15.	Gross State Domestic Product	13855110	13855110

**Source:** DES, Himachal Pradesh.

Further, the control totals of final demand components have been estimated using various data sources. For Private Final Consumption Expenditure (PFCE), NSS data on “Consumption Expenditure” have been used. However, since these data are for 2011-12, these have been extrapolated for 2017-18 using state’s share in national consumption expenditure in 2011-12 and applying this on national level PFCE for 2017-18. Gross Fixed Capital Formation (GFCF) is assumed

to be 1.3 per cent of national GFCF (Rajeswari et al, 2015<sup>2</sup>). Change in Stocks (CIS) is assumed to be included in GFCF. The value of Exports is obtained in the similar way as value of Imports is estimated. Government Final Consumption Expenditure (GFCE) is obtained as the residual, given the derivation of GDP through expenditure approach as follows.

$$\text{GDP} = \text{PFCE} + \text{GFCE} + \text{GFCF} + \text{Exports} - \text{Imports}$$

The intermediate values of the Use Table are obtained using the All-India Use structure. The methodology and the sources of data are presented in Table III.5.

**Table III. 5: Methodology and Sources of Data of a Use Table**

Product\I ndustry	Agri & Allied	Mining & Quarrying	Manu- facturing	Constructi on	Electricity , Gas & Water Supply	Services	PFCE	GFCE	GFCF	CIS
	1	2	3	4	5	6	7	8	9	10
P <sub>1</sub>	All India structure	All India structure	State specific ASI & NSS structure	All India structure	All India structure	All India structure, For Hotels & Restaurant State specific ASI & NSS structure	State specific NSS structure	All India structure	All India structure	All India structure
P <sub>2</sub>										
P <sub>3</sub>										
Intermediate Inputs	Residual (Output - GVA)	Residual (Output - GVA)	Residual (Output - GVA)	Residual (Output - GVA)	Residual (Output - GVA)	Residual (Output - GVA)	NSS 2011-12 State PFCE, adjusted for 2017-18	Residual (GDP- PFCE-GFCF- Exports-Imports)	Assumed 1.3% of All India GFCF	Included in GFCF
GVA	DES information	DES information	DES information	DES information	DES information	DES information				

<sup>2</sup> T. Rajeswari, Reena Singh, Manmohan Singh, 2015, "Estimation of All India and State level Capital formation from NSS 67<sup>th</sup> round survey", *Journal of Income and Wealth*, Vol. 37, Issue 1.

Product\I industry	Agri & Allied	Mining & Quarrying	Manu- facturing	Constructi on	Electricity , Gas & Water Supply	Services	PFCE	GFCE	GFCF	CIS
	1	2	3	4	5	6	7	8	9	10
<b>Total Output (GVA+Inputs)</b>	DES information	All India Value Added to Output Ratio	State Industry Specific Value Added to Output Ratio	All India Value Added to Output Ratio	State Industry Specific Value Added to Output Ratio for Electricity and All India VA/Q ratio for Gas & Water Supply	State Industry Specific VA/Q Ratio, All India VA/Q ratio for Railway and Air Transport, Storage & Warehousing, Financial and Insurance Services, Ownership of Dwellings and Public Administration & Defence				

**Source:** NCAER Compilation.

Table III.6 presents the details of level of availability of data on values of output and GVA of industries. Table III.6 also presents the methodology to arrive at these values, wherever not available.

***Table III. 6: Methodology and Sources of Data for Value Added and Output***

Industry	GVA		Value of Output	
	Level of Availability	Methodology for Breaking in to Industry	Level of Availability	Methodology for Breaking in to Industry
Agriculture	DES	DES	DES	DES
Livestock	DES	DES	DES	DES
Forestry and Logging	DES	DES	DES	DES
Fishing & Aquaculture	DES	DES	DES	DES
Other Mining	DES	DES	Not Available	All India VA/Q Ratio
Production, processing and preservation of meat, fish, fruit, vegetables, oils and fats	DES	ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of dairy products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of grain mill products, etc. and animal feeds		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of other food products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of beverages		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of tobacco products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of textiles + cotton ginning		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of wearing apparel, except custom tailoring	DES	ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of leather and related products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of Basic Iron and Steel + Casting of iron and steel	DES	ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of basic precious and non-ferrous metals + Casting of non-ferrous metals		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of fabricated metal products, except machinery and equipments		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of electronic component, consumer electronics, magnetic and optical media	DES	ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of computer and peripheral equipment		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

Industry	GVA		Value of Output	
	Level of Availability	Methodology for Breaking in to Industry	Level of Availability	Methodology for Breaking in to Industry
Manufacture of communication equipments		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of optical and electronics products n.e.c.		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of Electrical equipments		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of machinery and equipments n.e.c.		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of Transport	DES	ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of coke and refined petroleum products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of chemical and chemical products except pharmaceuticals, medicinal and botanical products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of pharmaceutical; medicinal chemicals and botanical products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of rubber & plastic products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of other non-metallic mineral products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting material		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of paper and paper products		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Printing and reproduction of recorded media except publishing		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Manufacture of furniture		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Other Manufacturing		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Repair and installation of machinery and equipments		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Construction	DES	DES	Not Available	All India VA/Q Ratio
Electricity	DES	DES	Not Available	ASI+ NSS VA/Q Ratio
Gas	DES	DES	Not Available	All India VA/Q Ratio
Water supply	DES	DES	Not Available	All India VA/Q Ratio
Railway Transport	DES	DES	Not Available	All India VA/Q Ratio
Land Transport	DES	DES	Not Available	ASI+ NSS VA/Q Ratio
Water Transport	DES	DES	Not Available	ASI+ NSS VA/Q Ratio
Air Transport	DES	DES	Not Available	All India VA/Q Ratio
Supportive & Auxiliary transport activities	DES	DES	Not Available	ASI+ NSS VA/Q Ratio
Storage & warehousing	DES	DES	Not Available	All India VA/Q Ratio
Communication	DES	DES	Not Available	ASI+ NSS VA/Q Ratio
Trade	DES	DES	Not Available	ASI+ NSS VA/Q Ratio
Hotels & Restaurant	DES	DES	Not Available	ASI+ NSS VA/Q Ratio
Financial Services	DES	All India VA Distribution	Not Available	All India VA/Q Ratio
Insurance Services		All India VA Distribution	Not Available	All India VA/Q Ratio
Ownership of dwellings	DES	DES	Not Available	All India VA/Q Ratio
Education & Research	DES	ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Medical and Health		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Legal Services		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Computer related services		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Other Business services		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Real estate activities		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Renting of machinery and equipment		ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Community, Social & personal services	DES	DES	Not Available	ASI+ NSS VA/Q Ratio
Other services	DES	ASI+ NSS VA Distribution	Not Available	ASI+ NSS VA/Q Ratio
Public administration & defence	DES	DES	Not Available	All India VA/Q Ratio

**Source:** NCAER Compilation.

In accordance with the national SUT, the state SUTs for HP were also first prepared with 66 industries and 140 products. These were later aggregated to 60 industries and 64 products, as many industries and products were of little or no relevance for the state of HP. In the next stage, the 64 products and 60 industries were further aggregated to 53 products and 53 industries, in order to make the number of product rows and industry columns equal as the IOTTs must have equal number of rows and columns.

### ***III.5. Adding “Apples” as an additional Product/Industry***

Further, for the State-level SUT, adding a sector of state’s relevance can be of particular interest to the state’s policy makers, researchers and academicians, etc. This sector should be specific to the state or should be the one for which the state is popularly known for. In the case of Himachal Pradesh, “Apple” is considered to be the most important fruit crop, constituting about 49 per cent of the total area under fruit crops and about 74 per cent of the total fruit production. Area under apple has increased from 400 hectares in 1950-51 to 3,025 hectares in 1960-61 and 1,13,154 hectares in 2018-19. Hence, this study attempts to have “Apples” as an additional product as well as industry in the Supply Table, Use Table and the subsequent Input-Output Transactions table.

In terms of value of output, Apples account for over 78 per cent of total fruit production in the state. Since the disaggregated supply and use account of Apples are not available, several insights were obtained from the DES, HP. These are as follows:

1. For the supply table, the value of output of “Apples” at basic price is given, that is, Rs 2,28,215 lakh.
2. On this, product taxes are imposed at the rate of 4.66 per cent.
3. Further, trade and transport margin are imposed at the rate of 76.43 per cent.
4. Hence obtained value of output at purchaser’s price comes out to be Rs 4,13,262 lakh.
5. The demand side information reveals that about 65 per cent of this output caters to the export demand including export to other states.
6. Private Households in the state consume about 18 per cent and the remaining 17 per cent is consumed by the industries, especially for their use in preparing processed food, like apple juices, jams, etc.
7. The industrial demand is, hence, distributed among the following:
  - a. Apples
  - b. Agriculture (other than apples)
  - c. Processed meat, fish, fruit, vegetables, oils and fats
  - d. Grain mill products, etc. and animal feeds
  - e. Other food products
  - f. Beverages

The aggregation scheme for industries and products is provided in Appendix Tables A.1 and A.2 respectively.

Hence obtained Supply and Use Tables with 54 industries and 54 products are presented in Tables III.7 and III.8. These tables are then converted to Input-Output tables for the state of Himachal Pradesh.



**Table III. 7: Supply Table, 2017-18 (Rs lakh)**

	Apples	Agriculture (other than Apples)	Livestock	Forestry and Logging	Fishing & Aquaculture	Limestone and other minor minerals	Processed meat, fish, fruit, vegetables, oils and fats
	1	2	3	4	5	6	7
1. Apples	228215	0	0	0	0	0	0
2. Agriculture (other than Apples)	0	935178	0	0	0	0	0
3. Livestock	0	0	519331	0	0	0	0
4. Forestry and Logging	0	0	0	566989	0	0	0
5. Fishing & Aquaculture	0	0	0	0	17800	0	0
6. Limestone and other minor minerals	0	0	0	0	0	61484	0
7. Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	19294
8. Dairy products	0	0	0	0	0	0	726
9. Grain mill products, etc. and animal feeds	0	0	0	0	0	0	0
10. Other food products	0	0	0	0	0	0	78428
11. Beverages	0	0	0	0	0	0	197
12. Tobacco products	0	0	0	0	0	0	0
13. Textiles & cotton ginning	0	0	0	0	0	0	0
14. Readymade garments	0	0	0	0	0	0	0
15. Leather and related products	0	0	0	0	0	0	0
16. Metal and Metal Products	0	0	0	0	0	0	0
17. Electronic equipment	0	0	0	0	0	0	0
18. Electrical equipment	0	0	0	0	0	0	0
19. Machinery and equipment n.e.c.	0	0	0	0	0	0	0
20. Transport equipment	0	0	0	0	0	0	0
21. Petroleum and coal tar products	0	0	0	0	0	0	0
22. Inorganic and Organic Chemicals	0	0	0	0	0	0	70023
23. Drugs and medicine	0	0	0	0	0	0	0
24. Rubber & plastic products	0	0	0	0	0	0	0
25. Other non-metallic mineral products	0	0	0	0	0	0	0
26. Wood and wood products except furniture	0	0	0	0	0	0	0
27. Paper, Paper products and newsprint	0	0	0	0	0	0	0
28. Publishing & printing	0	0	0	0	0	0	0
29. Furniture & Fixtures	0	0	0	0	0	0	0
30. Other Manufacturing	0	0	0	0	0	0	0
31. Repair and installation of machinery and equipments	0	0	0	0	0	0	0
32. Construction	0	0	0	0	0	0	0
33. Electricity	0	0	0	0	0	0	0
34. Gas	0	0	0	0	0	0	0
35. Water Supply	0	0	0	0	0	0	0
36. Trade	0	0	0	0	0	0	0
37. Hotels & Restaurant	0	0	0	0	0	0	19
38. Railway Transport	0	0	0	0	0	0	0
39. Land transport	0	0	0	0	0	0	0
40. Air transport	0	0	0	0	0	0	0
41. Supportive and Auxiliary transport activities	0	0	0	0	0	0	0
42. Storage and warehousing	0	0	0	0	0	0	0
43. Communication services	0	0	0	0	0	0	0
44. Financial, Legal and Insurance services	0	0	0	0	0	0	0
45. Ownership of dwellings	0	0	0	0	0	0	0
46. Education	0	0	0	0	0	0	0
47. Health	0	0	0	0	0	0	0
48. Computer related services	0	0	0	0	0	0	0
49. Business services	0	0	0	0	0	0	28
50. Real estate services	0	0	0	0	0	0	0
51. Renting of machinery & equipment	0	0	0	0	0	0	0
52. Community, social and personal services	0	0	0	0	0	0	0
53. Other services	0	0	0	0	0	0	19
54. Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>	<b>228215</b>	<b>935178</b>	<b>519331</b>	<b>566989</b>	<b>17800</b>	<b>61484</b>	<b>168734</b>



**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Dairy products	Grain mill products, etc. and animal feeds	Other food products	Beverages	Tobacco products	Textiles & cotton ginning	Readymade garments
		8	9	10	11	12	13	14
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	0	0	0	0
3.	Livestock	0	0	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	0	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	29	202	0	0	0	0
8.	Dairy products	14392	0	996	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	92066	676	0	0	0	0
10.	Other food products	1495	30951	256938	43	3205	0	6
11.	Beverages	0	0	13318	25440	0	0	0
12.	Tobacco products	0	0	0	0	2595	0	0
13.	Textiles & cotton ginning	0	0	0	0	0	112997	3964
14.	Readymade garments	0	0	0	0	0	1928	27950
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	0	0	0	0	0	0	0
17.	Electronic equipment	0	0	0	0	0	0	0
18.	Electrical equipment	0	0	0	0	0	0	0
19.	Machinery and equipment n.e.c.	0	0	0	0	0	0	0
20.	Transport equipment	0	0	0	0	0	0	0
21.	Petroleum and coal tar products	0	0	0	0	0	0	0
22.	Inorganic and Organic Chemicals	0	11	1444	1876	0	7812	583
23.	Drugs and medicine	0	0	8322	0	0	574	0
24.	Rubber & plastic products	0	0	0	0	0	5188	237
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	0	0	0	0	0	0	0
27.	Paper, Paper products and newsprint	0	0	0	0	0	0	0
28.	Publishing & printing	0	0	0	0	0	0	0
29.	Furniture & Fixtures	0	0	0	0	0	0	0
30.	Other Manufacturing	0	0	0	0	0	0	0
31.	Repair and installation of machinery and equipments	0	0	0	0	0	0	0
32.	Construction	0	0	0	0	0	0	0
33.	Electricity	0	0	0	0	0	0	0
34.	Gas	0	0	0	0	0	0	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	0	0	1519	0	0	0	0
38.	Railway Transport	0	0	0	0	0	0	0
39.	Land transport	0	0	0	0	0	0	0
40.	Air transport	0	0	0	0	0	0	0
41.	Supportive and Auxiliary transport activities	0	0	0	0	0	0	0
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	0	0	0	0	0	0	0
44.	Financial, Legal and Insurance services	0	0	0	0	0	0	0
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	0	21454	920	0	0	682	136613
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	0	0	0	0	0	0	0
52.	Community, social and personal services	0	0	0	0	0	0	0
53.	Other services	0	31	27	0	0	14	78
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>		<b>15887</b>	<b>144542</b>	<b>284361</b>	<b>27358</b>	<b>5801</b>	<b>129196</b>	<b>169432</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Leather and r elated products	Metal and Metal Products	Electronic equipment	Electrical equipment	Machinery and equipment n.e.c.	Transport equipment	Petroleum and coal tar products
		15	16	17	18	19	20	21
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	0	0	0	0
3.	Livestock	0	0	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	0	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	0	0	0	0	0	0
10.	Other food products	0	0	0	0	0	0	0
11.	Beverages	0	0	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	218	64	0	0	0	205	0
14.	Readymade garments	0	0	0	0	0	0	0
15.	Leather and related products	55294	0	0	0	0	0	0
16.	Metal and Metal Products	209	403248	0	152795	8292	26934	0
17.	Electronic equipment	0	1852	36555	251342	475	3899	0
18.	Electrical equipment	0	3790	75477	901886	93496	211	0
19.	Machinery and equipment n.e.c.	0	11547	1908	240913	117007	84932	0
20.	Transport equipment	0	5	0	12388	23144	107710	0
21.	Petroleum and coal tar products	0	0	0	0	0	0	45687
22.	Inorganic and Organic Chemicals	5	0	0	7158	214	0	696
23.	Drugs and medicine	0	0	0	0	0	0	0
24.	Rubber & plastic products	7371	8952	0	40592	5498	18208	0
25.	Other non-metallic mineral products	0	9	0	0	0	0	0
26.	Wood and wood products except furniture	0	0	0	0	0	0	0
27.	Paper, Paper products and newsprint	0	0	55	0	0	0	0
28.	Publishing & printing	0	248	0	0	0	0	0
29.	Furniture & Fixtures	0	0	472	0	0	1598	0
30.	Other Manufacturing	0	64238	29105	49812	21231	432	0
31.	Repair and installation of machinery and equipments	0	0	0	0	0	0	0
32.	Construction	0	0	0	0	0	0	0
33.	Electricity	0	0	0	0	0	0	0
34.	Gas	0	0	0	0	0	0	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	0	0	0	0	0	0	0
39.	Land transport	0	0	0	0	0	0	0
40.	Air transport	0	0	0	0	0	0	0
41.	Supportive and Auxiliary transport activities	0	0	0	0	0	0	0
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	0	0	0	0	0	0	0
44.	Financial, Legal and Insurance services	0	0	0	0	0	0	0
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	191	11214	20	2406	33	33	0
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	0	0	0	0	0	0	0
52.	Community, social and personal services	0	0	0	0	0	0	0
53.	Other services	4	104	10	27	0	1	0
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>		<b>63292</b>	<b>505270</b>	<b>143601</b>	<b>1659319</b>	<b>269391</b>	<b>244164</b>	<b>46383</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Inorganic and Organic Chemicals	Drugs and medicine	Rubber & plastic products	Other non-metallic mineral products	Wood and wood products except furniture	Paper, Paper products and newsprint	Publishing & printing
		22	23	24	25	26	27	28
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	0	0	0	0
3.	Livestock	0	0	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	0	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	70	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	1463	0	0	0	0	0
10.	Other food products	4759	64261	0	0	11	0	0
11.	Beverages	0	611	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	4175	15	4183	0	74	4811	464
14.	Readymade garments	0	0	0	0	0	0	0
15.	Leather and related products	0	0	2811	0	0	0	0
16.	Metal and Metal Products	0	27	28347	320510	0	19340	477
17.	Electronic equipment	0	0	0	0	0	579	0
18.	Electrical equipment	0	0	1234	0	0	0	0
19.	Machinery and equipment n.e.c.	0	0	0	207	0	0	0
20.	Transport equipment	0	0	0	0	0	0	0
21.	Petroleum and coal tar products	572	4226	0	0	0	0	0
22.	Inorganic and Organic Chemicals	1012634	69443	21971	1359	0	3828	0
23.	Drugs and medicine	164710	1174244	0	0	0	0	0
24.	Rubber & plastic products	10165	1672	331948	0	21132	9333	1403
25.	Other non-metallic mineral products	0	0	0	5	0	0	0
26.	Wood and wood products except furniture	0	0	0	0	45051	0	0
27.	Paper, Paper products and newsprint	0	267	11	0	0	280794	2776
28.	Publishing & printing	0	0	0	0	0	0	637
29.	Furniture & Fixtures	0	22	0	0	5303	0	0
30.	Other Manufacturing	6381	20189	13736	476	0	0	0
31.	Repair and installation of machinery and equipments	0	0	0	0	0	0	0
32.	Construction	0	0	0	0	0	0	0
33.	Electricity	0	0	0	0	0	0	0
34.	Gas	0	0	0	0	0	0	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	0	0	0	0	0	0	0
39.	Land transport	0	0	0	0	0	0	0
40.	Air transport	0	0	0	0	0	0	0
41.	Supportive and Auxiliary transport activities	0	0	0	0	0	0	0
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	0	0	0	0	0	0	0
44.	Financial, Legal and Insurance services	0	0	0	0	0	0	0
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	0	0	342	2221	31835	1588	336
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	0	0	0	0	0	0	0
52.	Community, social and personal services	0	0	0	0	0	0	0
53.	Other services	0	0	0	0	51	0	3
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>		<b>1203397</b>	<b>1336510</b>	<b>404585</b>	<b>324779</b>	<b>103457</b>	<b>320273</b>	<b>6096</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Furniture & Fixtures	Other Manufacturing	Repair and installation of machinery and equipments	Construction	Electricity	Gas	Water Supply
		29	30	31	32	33	34	35
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	0	0	0	0
3.	Livestock	0	0	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	0	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	0	0	0	0	0	0
10.	Other food products	0	0	0	0	0	0	0
11.	Beverages	0	0	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	45	0	0	0	0	0	0
14.	Readymade garments	0	0	0	0	0	0	0
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	616	9852	0	0	0	0	0
17.	Electronic equipment	0	965	0	0	0	0	0
18.	Electrical equipment	0	0	98829	0	0	0	0
19.	Machinery and equipment n.e.c.	1	343	0	0	0	0	0
20.	Transport equipment	0	1	0	0	0	0	0
21.	Petroleum and coal tar products	0	0	0	0	0	0	0
22.	Inorganic and Organic Chemicals	0	250	0	0	0	0	0
23.	Drugs and medicine	0	15	0	0	0	0	0
24.	Rubber & plastic products	26	5201	0	0	0	0	0
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	85	0	0	0	0	0	0
27.	Paper, Paper products and newsprint	9	117	0	0	0	0	0
28.	Publishing & printing	0	0	0	0	0	0	0
29.	Furniture & Fixtures	1460	0	0	0	0	0	0
30.	Other Manufacturing	0	34807	0	0	0	0	0
31.	Repair and installation of machinery and equipments	0	0	0	0	0	0	0
32.	Construction	0	0	0	2575773	0	0	0
33.	Electricity	0	0	0	0	780929	0	0
34.	Gas	0	0	0	0	0	36534	0
35.	Water Supply	0	0	0	0	0	0	117672
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	0	0	0	0	0	0	0
39.	Land transport	0	0	0	0	0	0	0
40.	Air transport	0	0	0	0	0	0	0
41.	Supportive and Auxiliary transport activities	0	0	0	0	0	0	0
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	0	0	0	0	0	0	0
44.	Financial, Legal and Insurance services	0	0	0	0	0	0	0
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	611	2340	673037	0	0	0	0
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	0	0	0	0	0	0	0
52.	Community, social and personal services	0	0	0	0	0	0	0
53.	Other services	15	2	7652	0	0	0	0
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>		<b>2869</b>	<b>53892</b>	<b>779518</b>	<b>2575773</b>	<b>780929</b>	<b>36534</b>	<b>117672</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Trade	Hotels & Restaurant	Railway Transport	Land transport	Air transport	Supportive and Auxiliary transport activities	Storage and warehousing
		36	37	38	39	40	41	42
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	0	0	0	0
3.	Livestock	0	0	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	0	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	0	0	0	0	0	0
10.	Other food products	0	0	0	0	0	0	0
11.	Beverages	0	0	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	0	0	0	0	0	0	0
14.	Readymade garments	0	0	0	0	0	0	0
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	0	0	0	0	0	0	0
17.	Electronic equipment	0	0	0	0	0	0	0
18.	Electrical equipment	0	0	0	0	0	0	0
19.	Machinery and equipment n.e.c.	0	0	0	0	0	0	0
20.	Transport equipment	0	0	0	0	0	0	0
21.	Petroleum and coal tar products	0	0	0	0	0	0	0
22.	Inorganic and Organic Chemicals	0	0	0	0	0	0	0
23.	Drugs and medicine	0	0	0	0	0	0	0
24.	Rubber & plastic products	0	0	0	0	0	0	0
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	0	0	0	0	0	0	0
27.	Paper, Paper products and newsprint	0	0	0	0	0	0	0
28.	Publishing & printing	0	0	0	0	0	0	0
29.	Furniture & Fixtures	0	0	0	0	0	0	0
30.	Other Manufacturing	0	0	0	0	0	0	0
31.	Repair and installation of machinery and equipments	80197	0	0	0	0	0	0
32.	Construction	0	0	0	0	0	0	0
33.	Electricity	0	0	0	0	0	0	0
34.	Gas	0	0	0	0	0	0	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	976045	0	0	0	0	0	0
37.	Hotels & Restaurant	0	265810	0	0	0	0	0
38.	Railway Transport	0	0	2691	0	0	0	0
39.	Land transport	0	0	0	1332419	0	0	0
40.	Air transport	0	0	0	0	5404	0	0
41.	Supportive and Auxiliary transport activities	0	0	0	0	0	9146	0
42.	Storage and warehousing	0	0	0	0	0	0	307
43.	Communication services	0	0	0	0	0	0	0
44.	Financial, Legal and Insurance services	0	0	0	0	0	0	0
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	0	0	0	0	0	0	0
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	0	0	0	0	0	0	0
52.	Community, social and personal services	0	0	0	0	0	0	0
53.	Other services	0	0	0	0	0	0	0
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>		<b>1056241</b>	<b>265810</b>	<b>2691</b>	<b>1332419</b>	<b>5404</b>	<b>9146</b>	<b>307</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Communication services	Financial, Legal and Insurance services	Ownership of dwellings	Education	Health	Computer related services	Business Services
		43	44	45	46	47	48	49
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	0	0	0	0
3.	Livestock	0	0	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	0	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	0	0	0	0	0	0
10.	Other food products	0	0	0	0	0	0	0
11.	Beverages	0	0	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	0	0	0	0	0	0	0
14.	Readymade garments	0	0	0	0	0	0	0
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	0	0	0	0	0	0	0
17.	Electronic equipment	0	0	0	0	0	0	0
18.	Electrical equipment	0	0	0	0	0	0	0
19.	Machinery and equipment n.e.c.	0	0	0	0	0	0	0
20.	Transport equipment	0	0	0	0	0	0	0
21.	Petroleum and coal tar products	0	0	0	0	0	0	0
22.	Inorganic and Organic Chemicals	0	0	0	0	0	0	0
23.	Drugs and medicine	0	0	0	0	0	0	0
24.	Rubber & plastic products	0	0	0	0	0	0	0
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	0	0	0	0	0	0	0
27.	Paper, Paper products and newsprint	0	0	0	0	0	0	0
28.	Publishing & printing	0	0	0	0	0	0	0
29.	Furniture & Fixtures	0	0	0	0	0	0	0
30.	Other Manufacturing	0	0	0	0	0	0	0
31.	Repair and installation of machinery and equipments	0	0	0	0	0	0	0
32.	Construction	0	0	0	0	0	0	0
33.	Electricity	0	0	0	0	0	0	0
34.	Gas	0	0	0	0	0	0	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	0	0	0	0	0	0	0
39.	Land transport	0	0	0	0	0	0	0
40.	Air transport	0	0	0	0	0	0	0
41.	Supportive and Auxiliary transport activities	0	0	0	0	0	0	0
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	1577203	0	0	0	0	0	0
44.	Financial, Legal and Insurance services	0	505503	0	0	0	0	0
45.	Ownership of dwellings	0	0	1108980	0	0	0	0
46.	Education	0	0	0	316769	0	0	0
47.	Health	0	0	0	0	202674	0	0
48.	Computer related services	0	0	0	0	0	26930	0
49.	Business services	0	15165	0	0	0	0	41806
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	0	0	0	0	0	0	0
52.	Community, social and personal services	0	0	0	0	0	0	0
53.	Other services	0	0	0	0	0	0	0
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>		<b>1577203</b>	<b>520667</b>	<b>1108980</b>	<b>316769</b>	<b>202674</b>	<b>26930</b>	<b>41806</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Real estate services	Renting of machinery & equipment	Community, social and personal services	Other services	Public administration and defence	Supply at BP
		50	51	52	53	54	
1.	Apples	0	0	0	0	0	228215
2.	Agriculture (other than Apples)	0	0	0	0	0	935178
3.	Livestock	0	0	0	0	0	519331
4.	Forestry and Logging	0	0	0	0	0	566989
5.	Fishing & Aquaculture	0	0	0	0	0	17800
6.	Limestone and other minor minerals	0	0	0	0	0	61484
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	19595
8.	Dairy products	0	0	0	0	0	16115
9.	Grain mill products, etc. and animal feeds	0	0	0	0	0	94204
10.	Other food products	0	0	0	0	0	440096
11.	Beverages	0	0	0	0	0	39566
12.	Tobacco products	0	0	0	0	0	2596
13.	Textiles & cotton ginning	0	0	0	0	0	131215
14.	Readymade garments	0	0	0	0	0	29878
15.	Leather and related products	0	0	0	0	0	58104
16.	Metal and Metal Products	0	0	0	0	0	970648
17.	Electronic equipment	0	0	0	0	0	295667
18.	Electrical equipment	0	0	0	0	0	1174924
19.	Machinery and equipment n.e.c.	0	0	0	0	0	456858
20.	Transport equipment	0	0	0	0	0	143249
21.	Petroleum and coal tar products	0	0	0	0	0	50485
22.	Inorganic and Organic Chemicals	0	0	0	0	0	1199308
23.	Drugs and medicine	0	0	0	0	0	1347864
24.	Rubber & plastic products	0	0	0	0	0	466926
25.	Other non-metallic mineral products	0	0	0	0	0	14
26.	Wood and wood products except furniture	0	0	0	0	0	45137
27.	Paper, Paper products and newsprint	0	0	0	0	0	284029
28.	Publishing & printing	0	0	0	0	0	885
29.	Furniture & Fixtures	0	0	0	0	0	8855
30.	Other Manufacturing	0	0	0	0	0	240408
31.	Repair and installation of machinery and equipments	0	0	0	0	0	80197
32.	Construction	0	0	0	0	0	2575773
33.	Electricity	0	0	0	0	0	780929
34.	Gas	0	0	0	0	0	36534
35.	Water Supply	0	0	0	0	0	117672
36.	Trade	0	0	0	0	0	976045
37.	Hotels & Restaurant	0	0	0	0	0	267348
38.	Railway Transport	0	0	0	0	0	2691
39.	Land transport	0	0	0	0	0	1332419
40.	Air transport	0	0	0	0	0	5404
41.	Supportive and Auxiliary transport activities	0	0	0	0	0	9146
42.	Storage and warehousing	0	0	0	0	0	307
43.	Communication services	0	0	0	0	0	1577203
44.	Financial, Legal and Insurance services	0	0	0	0	0	505503
45.	Ownership of dwellings	0	0	0	0	0	1108980
46.	Education	0	0	0	0	0	316769
47.	Health	0	0	0	0	0	202674
48.	Computer related services	0	0	0	0	0	26930
49.	Business services	0	0	0	0	0	942874
50.	Real estate services	37518	0	0	0	0	37518
51.	Renting of machinery & equipment	0	83961	0	0	0	83961
52.	Community, social and personal services	0	0	1626223	0	0	1626223
53.	Other services	0	0	0	126946	0	134983
54.	Public administration and defence	0	0	0	0	918325	918325
<b>Total intermediate consumption at basic prices</b>		<b>37518</b>	<b>83961</b>	<b>1626223</b>	<b>126946</b>	<b>918325</b>	<b>23512031</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Product taxes less Subsidies	OUTPUT at Producer price	Final Import	OP at Producer Price + Import	Trade and Transport Margins	OP at PP
1.	Apples	10628	238843	0	238843	174419	413262
2.	Agriculture (other than Apples)	-18572	916606	99875	1016480	242275	1258755
3.	Livestock	-4451	514880	13807	528687	68531	597217
4.	Forestry and Logging	7132	574122	39437	613559	103442	717000
5.	Fishing & Aquaculture	-170	17631	1803	19434	2369	21802
6.	Limestone and other minor minerals	-12	61472	126142	187614	49982	237596
7.	Processed meat, fish, fruit, vegetables, oils and fats	664	20259	20809	41068	5721	46788
8.	Dairy products	373	16488	97410	113898	1104	115001
9.	Grain mill products, etc. and animal feeds	-564	93641	0	93641	18193	111834
10.	Other food products	36276	476372	214624	690996	85398	776394
11.	Beverages	10904	50469	17424	67893	7296	75189
12.	Tobacco products	2088	4684	728	5413	471	5884
13.	Textiles & cotton ginning	9355	140570	61889	202459	21181	223641
14.	Readymade garments	2049	31927	8235	40161	6049	46211
15.	Leather and related products	3431	61535	17278	78814	24379	103192
16.	Metal and Metal Products	192889	1163537	456211	1619748	207030	1826778
17.	Electronic equipment	94327	389994	34508	424502	28254	452756
18.	Electrical equipment	183576	1358500	301909	1660409	111421	1771830
19.	Machinery and equipment n.e.c.	47503	504361	315228	819589	171144	990733
20.	Transport equipment	12600	155849	193971	349820	20650	370470
21.	Petroleum and coal tar products	14939	65425	1366557	1431981	100941	1532923
22.	Inorganic and Organic Chemicals	176583	1375891	548867	1924758	235208	2159966
23.	Drugs and medicine	124646	1472511	20413	1492923	2468	1495391
24.	Rubber & plastic products	49607	516533	145318	661851	58089	719940
25.	Other non-metallic mineral products	4	19	158867	158885	3	158889
26.	Wood and wood products except furniture	8322	53459	15102	68561	7234	75795
27.	Paper, Paper products and newsprint	26721	310751	3557	314308	29040	343348
28.	Publishing & printing	10	894	20866	21761	232	21993
29.	Furniture & Fixtures	210	9065	13889	22955	1840	24795
30.	Other Manufacturing	39547	279955	915635	1195590	54402	1249992
31.	Repair and installation of machinery and equipments	-1633	78564	0	78564	0	78564
32.	Construction	-12846	2562927	13493	2576420	0	2576420
33.	Electricity	-7313	773617	0	773617	0	773617
34.	Gas	-118	36416	0	36416	0	36416
35.	Water Supply	-1143	116528	0	116528	0	116528
36.	Trade	-6749	969296	0	969296	-969296	0
37.	Hotels & Restaurant	1978	269326	0	269326	0	269326
38.	Railway Transport	6353	9043	0	9043	-2478	6566
39.	Land transport	10627	1343047	68000	1411047	-858119	552928
40.	Air transport	228	5633	29533	35166	-579	34587
41.	Supportive and Auxiliary transport activities	639	9785	100	9885	-8296	1589
42.	Storage and warehousing	-86	220	0	220	0	220
43.	Communication services	41504	1618707	2888	1621596	0	1621596
44.	Financial, Legal and Insurance services	20049	525552	24272	549824	0	549824
45.	Ownership of dwellings	-2694	1106286	0	1106286	0	1106286
46.	Education	6408	323177	209434	532611	0	532611
47.	Health	-2165	200509	14819	215328	0	215328
48.	Computer related services	-269	26661	42354	69015	0	69015
49.	Business services	81575	1024449	4110	1028559	0	1028559
50.	Real estate services	2760	40279	0	40279	0	40279
51.	Renting of machinery & equipment	-2800	81160	0	81160	0	81160
52.	Community, social and personal services	8351	1634574	0	1634574	0	1634574
53.	Other services	21924	156907	3417	160324	0	160324
54.	Public administration and defence	0	918325	0	918325	0	918325
Total intermediate consumption at basic prices		1195198	24707229	5642778	30350007	-1	30350006



**Table III. 8: Use Table, 2017-18 (Rs lakh)**

		Apples	Agriculture (other than Apples)	Livestock	Forestry and Logging	Fishing & Aquaculture	Limestone and other minor minerals	Processed meat, fish, fruit, vegetables, oils and fats
		1	2	3	4	5	6	7
1.	Apples	4766	13793	0	0	0	0	17278
2.	Agriculture (other than Apples)	0	31568	108590	0	6	0	0
3.	Livestock	327	3111	12389	0	551	0	10788
4.	Forestry and Logging	0	0	864	832	0	0	28886
5.	Fishing & Aquaculture	0	0	0	0	292	0	207
6.	Limestone and other minor minerals	0	0	0	0	641	0	12
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	1398
8.	Dairy products	0	0	0	0	0	0	237
9.	Grain mill products, etc. and animal feeds	0	0	4609	0	2	0	464
10.	Other food products	0	0	32171	0	6	0	32976
11.	Beverages	0	0	0	0	0	0	3
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	0	0	0	245	5	140	0
14.	Readymade garments	3	31	0	1824	0	189	0
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	2	21	0	8466	18	1105	0
17.	Electronic equipment	4	41	0	130	0	27	0
18.	Electrical equipment	1	13	0	2404	0	92	0
19.	Machinery and equipment n.e.c.	248	2358	135	36	0	4518	0
20.	Transport equipment	89	846	0	2394	9	2	0
21.	Petroleum and coal tar products	2820	26838	0	10832	32	4070	1076
22.	Inorganic and Organic Chemicals	4261	40553	0	0	9	0	2640
23.	Drugs and medicine	0	0	16768	0	24	0	293
24.	Rubber & plastic products	0	3	0	1060	0	2471	0
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	0	0	5910	1491	6	0	0
27.	Paper, Paper products and newsprint	4	37	0	1264	0	878	0
28.	Publishing & printing	6	59	0	1522	0	162	0
29.	Furniture & Fixtures	4	36	0	548	0	174	0
30.	Other Manufacturing	8	73	70000	24283	0	575	11849
31.	Repair and installation of machinery and equipments	3	30	0	398	0	627	32
32.	Construction	1039	9885	182	3007	0	23	0
33.	Electricity	2650	25227	0	6077	0	78	1524
34.	Gas	0	0	0	8	0	0	1
35.	Water Supply	6	60	0	1710	1	173	0
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	4	39	0	2170	0	0	0
38.	Railway Transport	0	0	0	0	0	16	44
39.	Land transport	0	0	100983	17531	0	781	132
40.	Air transport	0	0	0	0	0	0	0
41.	Supportive and Auxiliary transport activities	0	0	0	0	0	0	37
42.	Storage and warehousing	0	0	0	1	0	0	0
43.	Communication services	8	77	0	3296	0	3	32
44.	Financial, Legal and Insurance services	2510	23887	839	967	2	469	1
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	1	13	0	1683	0	44	0
47.	Health	0	0	0	2	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	11	105	0	9987	0	8042	85
50.	Real estate services	0	5	0	0	0	0	0
51.	Renting of machinery & equipment	0	1	0	0	0	28	158
52.	Community, social and personal services	0	0	0	37	0	7	0
53.	Other services	7	68	0	164	0	44	15
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Inputs (at pp)</b>		<b>18782</b>	<b>178774</b>	<b>353441</b>	<b>104370</b>	<b>1603</b>	<b>24737</b>	<b>110167</b>
<b>GVA (at bp)</b>		<b>209433</b>	<b>756404</b>	<b>165890</b>	<b>462619</b>	<b>16197</b>	<b>36746</b>	<b>58568</b>
<b>Output (at bp)</b>		<b>228215</b>	<b>935178</b>	<b>519331</b>	<b>566989</b>	<b>17800</b>	<b>61484</b>	<b>168734</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Dairy products	Grain mill products, etc. and animal feeds	Other food products	Beverages	Tobacco products	Textiles & cotton ginning	Readymade garments
		8	9	10	11	12	13	14
1.	Apples	0	30800	3251	367	0	0	0
2.	Agriculture (other than Apples)	222	23569	1588	0	0	58	0
3.	Livestock	1497	377	5061	0	0	10827	0
4.	Forestry and Logging	0	0	37	0	1440	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	2217	1506	289	26	162	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	207	1158	282	0	383	0	0
8.	Dairy products	2309	50	30311	0	0	0	0
9.	Grain mill products, etc. and animal feeds	582	27054	8318	871	0	8	0
10.	Other food products	1575	11533	82474	693	38	0	4
11.	Beverages	9	6	3495	4510	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	0	0	0	146	0	47423	7370
14.	Readymade garments	0	0	0	0	0	0	890
15.	Leather and related products	0	0	0	0	0	3	0
16.	Metal and Metal Products	0	0	0	16	64	13	160
17.	Electronic equipment	0	0	0	0	0	0	0
18.	Electrical equipment	0	0	0	0	0	0	0
19.	Machinery and equipment n.e.c.	0	0	0	0	0	0	0
20.	Transport equipment	0	0	0	0	0	0	0
21.	Petroleum and coal tar products	226	2492	2470	236	30	1438	761
22.	Inorganic and Organic Chemicals	37	4	8058	278	51	13352	2734
23.	Drugs and medicine	0	36	1842	0	0	0	258
24.	Rubber & plastic products	0	219	0	1363	0	6054	1262
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	0	0	0	0	1105	0	154
27.	Paper, Paper products and newsprint	0	34	0	0	0	32	267
28.	Publishing & printing	0	0	0	0	0	0	0
29.	Furniture & Fixtures	0	0	0	0	0	97	0
30.	Other Manufacturing	1633	9075	29982	5744	275	6071	386
31.	Repair and installation of machinery and equipments	0	3	3	2	1	0	17
32.	Construction	0	36	17	0	0	3	49
33.	Electricity	566	8380	3715	588	268	8736	4766
34.	Gas	83	0	779	0	0	33	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	0	26	14	0	1	3	186
39.	Land transport	0	524	43	2	68	19	612
40.	Air transport	0	0	0	0	0	0	0
41.	Supportive and Auxiliary transport activities	1	5	59	0	0	1	50
42.	Storage and warehousing	0	0	4	0	0	0	0
43.	Communication services	0	139	32	1	2	7	745
44.	Financial, Legal and Insurance services	0	162	96	0	0	2	133
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	2	0	0	0	0
48.	Computer related services	0	1	1	0	0	0	0
49.	Business services	0	2787	225	1	3	103	23076
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	4	172	322	0	1	19	7035
52.	Community, social and personal services	0	0	9	0	0	1	41
53.	Other services	0	2002	13	1	0	14	1094
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Inputs (at pp)</b>		<b>8950</b>	<b>122860</b>	<b>184010</b>	<b>15109</b>	<b>3755</b>	<b>94480</b>	<b>52053</b>
<b>GVA (at bp)</b>		<b>6937</b>	<b>21681</b>	<b>100351</b>	<b>12249</b>	<b>2046</b>	<b>34716</b>	<b>117378</b>
<b>Output (at bp)</b>		<b>15887</b>	<b>144542</b>	<b>284361</b>	<b>27358</b>	<b>5801</b>	<b>129196</b>	<b>169432</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

	Leather and related products	Metal and Metal Products	Electronic equipment	Electrical equipment	Machinery and equipment n.e.c.	Transport equipment	Petroleum and coal tar products
	15	16	17	18	19	20	21
1. Apples	0	0	0	0	0	0	0
2. Agriculture (other than Apples)	150	0	0	0	208	127	0
3. Livestock	5261	0	0	0	0	0	0
4. Forestry and Logging	0	4	0	0	0	0	0
5. Fishing & Aquaculture	0	603	0	245	0	0	0
6. Limestone and other minor minerals	1718	3175	0	6830	4965	5270	0
7. Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	0
8. Dairy products	0	0	0	0	0	0	0
9. Grain mill products, etc. and animal feeds	0	12	0	0	0	0	0
10. Other food products	0	0	0	0	0	0	0
11. Beverages	0	0	0	0	0	0	0
12. Tobacco products	0	0	0	0	0	0	0
13. Textiles & cotton ginning	7287	61	0	3718	0	296	0
14. Readymade garments	1222	0	0	0	0	0	0
15. Leather and related products	7525	0	0	848	1705	15	0
16. Metal and Metal Products	170	250236	2017	235436	45488	41038	0
17. Electronic equipment	0	0	51790	56652	4796	454	0
18. Electrical equipment	0	87	25408	168936	30996	5153	0
19. Machinery and equipment n.e.c.	56	1683	359	106976	34037	42668	0
20. Transport equipment	0	38	0	12	7120	48974	0
21. Petroleum and coal tar products	239	1936	105	3435	581	921	39664
22. Inorganic and Organic Chemicals	5789	65102	1374	28952	9553	4993	2325
23. Drugs and medicine	0	0	0	12	0	0	0
24. Rubber & plastic products	3754	325	1057	60551	7376	9752	0
25. Other non-metallic mineral products	0	6	0	0	0	0	0
26. Wood and wood products except furniture	111	22	297	228	0	219	0
27. Paper, Paper products and newsprint	84	102	0	5707	211	3288	0
28. Publishing & printing	0	0	0	0	0	0	0
29. Furniture & Fixtures	0	13	284	331	163	3997	0
30. Other Manufacturing	5030	22194	22988	172362	23583	11793	238
31. Repair and installation of machinery and equipments	1	14	5	3	0	0	0
32. Construction	0	1	0	0	1	0	0
33. Electricity	811	20180	813	19761	3306	4127	95
34. Gas	1	114	0	613	548	486	0
35. Water Supply	0	0	0	41522	0	0	0
36. Trade	0	0	0	0	0	0	0
37. Hotels & Restaurant	0	0	0	0	0	0	0
38. Railway Transport	4	66	56	40	1	0	0
39. Land transport	7	451	0	2012	8	52	0
40. Air transport	0	0	0	0	0	0	0
41. Supportive and Auxiliary transport activities	0	15	0	3	0	0	0
42. Storage and warehousing	0	0	0	0	0	0	0
43. Communication services	2	85	18	357422	4	7	0
44. Financial, Legal, and Insurance services	0	24	0	2	0	0	0
45. Ownership of dwellings	0	0	0	0	0	0	0
46. Education	0	0	0	0	0	0	0
47. Health	0	0	0	0	0	0	0
48. Computer related services	0	0	0	2	0	0	0
49. Business services	66	1789	32	197	3	61	0
50. Real estate services	0	0	0	0	0	0	0
51. Renting of machinery & equipment	31	672	41	249	3	62	0
52. Community, social, and personal services	0	7	0	0	0	0	0
53. Other services	1	321	4	0	1	7	0
54. Public administration and defence	0	0	0	0	0	0	0
Inputs (at pp)	39318	369338	106646	1273058	174658	183760	42322
GVA (at bp)	23973	135932	36955	386261	94734	60405	4061
Output (at bp)	63292	505270	143601	1659319	269391	244164	46383

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

	Inorganic and Organic Chemicals	Drugs and medicine	Rubber & plastic products	Other non-metallic mineral products	Wood and wood products except furniture	Paper, Paper products and newsprint	Publishing & printing
	22	23	24	25	26	27	28
1. Apples	0	0	0	0	0	0	0
2. Agriculture (other than Apples)	3041	184	0	0	0	0	0
3. Livestock	0	8	0	0	18	0	0
4. Forestry and Logging	1142	368	10	11	667	3715	0
5. Fishing & Aquaculture	0	0	0	0	0	0	0
6. Limestone and other minor minerals	13372	254	13	58714	822	7755	0
7. Processed meat, fish, fruit, vegetables, oils and fats	633	42	0	0	0	0	0
8. Dairy products	2	13	0	0	0	0	0
9. Grain mill products, etc. and animal feeds	12	132	0	0	20	3061	0
10. Other food products	39927	2282	0	0	6	2907	0
11. Beverages	4577	496	0	0	0	0	0
12. Tobacco products	0	4	0	0	0	0	0
13. Textiles & cotton ginning	353	0	960	0	44	48	29
14. Readymade garments	0	0	0	0	0	0	0
15. Leather and related products	0	0	0	0	0	0	0
16. Metal and Metal Products	383	207	5851	31773	621	15977	357
17. Electronic equipment	0	0	286	0	0	34	10
18. Electrical equipment	0	0	0	0	0	83	0
19. Machinery and equipment n.e.c.	0	0	0	0	12	0	0
20. Transport equipment	0	0	0	0	0	0	0
21. Petroleum and coal tar products	5053	1294	3871	29833	447	3789	27
22. Inorganic and Organic Chemicals	258550	-10920	238611	5378	22104	27250	433
23. Drugs and medicine	3803	170698	0	0	401	29	0
24. Rubber & plastic products	4844	364	8738	108	81	8473	1355
25. Other non-metallic mineral products	31	0	0	98	0	0	0
26. Wood and wood products except furniture	0	2	6	849	9899	4254	0
27. Paper, Paper products and newsprint	756	30	0	0	29249	144186	2435
28. Publishing & printing	0	0	5	0	0	1987	100
29. Furniture & Fixtures	7	1	0	0	10	0	0
30. Other Manufacturing	76158	-47636	17441	21269	5619	12497	93
31. Repair and installation of machinery and equipments	0	0	4	7	4	3	0
32. Construction	0	0	0	13	4	0	0
33. Electricity	8547	3121	18488	36515	2299	8267	84
34. Gas	0	7	10	0	0	42	0
35. Water Supply	0	0	0	0	0	0	0
36. Trade	0	0	0	0	0	0	0
37. Hotels & Restaurant	0	0	0	0	0	0	0
38. Railway Transport	0	0	1	7	122	8	4
39. Land transport	0	0	6	314	479	32	12
40. Air transport	0	0	0	0	0	0	0
41. Supportive and Auxiliary transport activities	0	0	0	0	4	4	2
42. Storage and warehousing	0	0	0	0	0	0	0
43. Communication services	0	0	3	5	140	12	8
44. Financial, Legal, and Insurance services	0	0	1	5	10	2	2
45. Ownership of dwellings	0	0	0	0	0	0	0
46. Education	0	0	0	0	0	0	0
47. Health	0	0	0	0	0	0	0
48. Computer related services	0	0	0	0	0	0	1
49. Business services	0	0	43	397	1750	100	55
50. Real estate services	0	0	0	0	0	0	0
51. Renting of machinery & equipment	0	0	13	16	170	61	38
52. Community, social, and personal services	0	0	0	4	0	0	0
53. Other services	0	0	6	3	469	17	8
54. Public administration and defence	0	0	0	0	0	0	0
Inputs (at pp)	421189	120953	294366	185318	75472	244593	5054
GVA (at bp)	782208	1215557	110218	139461	27984	75680	1042
Output (at bp)	1203397	1336510	404585	324779	103457	320273	6096

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Furniture & Fixtures	Other Manufacturing	Repair and installation of machinery and equipments	Construction	Electricity	Gas	Water Supply
		29	30	31	32	33	34	35
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	29235	258	0	0
3.	Livestock	1	0	0	0	0	0	0
4.	Forestry and Logging	427	0	0	45891	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	62	6533	0	97031	932	0	7370
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	0	0	0	0	0	0
10.	Other food products	0	0	0	0	0	0	0
11.	Beverages	0	0	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	31	24	0	93	0	0	0
14.	Readymade garments	0	0	0	1429	52	671	17
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	394	15460	0	495551	1110	14652	709
17.	Electronic equipment	0	68	0	21	1	83	2
18.	Electrical equipment	0	22	94044	36993	63	1333	118
19.	Machinery and equipment n.e.c.	0	110	0	8714	2	1	1
20.	Transport equipment	0	2934	0	5	0	3	5
21.	Petroleum and coal tar products	10	451	13422	58524	2409	4278	14127
22.	Inorganic and Organic Chemicals	38	3880	0	196738	0	0	1740
23.	Drugs and medicine	0	0	0	0	0	0	0
24.	Rubber & plastic products	1	734	0	46464	0	0	5661
25.	Other non-metallic mineral products	0	0	0	156005	0	0	0
26.	Wood and wood products except furniture	560	336	0	9221	0	0	0
27.	Paper, Paper products and newsprint	0	105	204	883	206	877	160
28.	Publishing & printing	0	0	0	13	24	110	60
29.	Furniture & Fixtures	112	0	0	3302	3	43	22
30.	Other Manufacturing	3	10229	0	26650	133	788	77
31.	Repair and installation of machinery and equipments	1	0	0	44024	0	0	0
32.	Construction	0	1	4	0	590	1561	2580
33.	Electricity	51	956	14788	35736	95	2042	2961
34.	Gas	0	8	0	1656	0	0	0
35.	Water Supply	0	0	0	6331	386	1187	714
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	0	0	0	22346	150	520	920
38.	Railway Transport	4	48	155	290	24	56	27
39.	Land transport	46	86	3264	29973	0	0	2497
40.	Air transport	0	0	0	4397	1	6	2428
41.	Supportive and Auxiliary transport activities	0	2	0	25	0	0	0
42.	Storage and warehousing	0	0	0	147	0	0	0
43.	Communication services	9	19	4481	172430	597	2132	6784
44.	Financial, Legal, and Insurance services	1	19	40	44258	426	511	11930
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	273	7	39	4
47.	Health	0	0	0	41	0	0	0
48.	Computer related services	0	0	0	1112	2	7	0
49.	Business services	120	425	156018	28147	918	3404	8442
50.	Real estate services	0	0	0	20415	0	0	0
51.	Renting of machinery & equipment	39	125	55939	923	0	0	16
52.	Community, social, and personal services	0	2	0	190	3	44	12
53.	Other services	19	2	1259	407	3	157	5
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Inputs (at pp)</b>		1929	42581	343618	1625883	8396	34505	69388
<b>GVA (at bp)</b>		940	11311	435900	949890	772533	2030	48284
<b>Output (at bp)</b>		2869	53892	779518	2575773	780929	36534	117672

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Trade	Hotels & Restaurant	Railway Transport	Land transport	Air transport	Supportive and Auxiliary transport activities	Storage and warehousing
		36	37	38	39	40	41	42
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	13259	0	21954	0	0	0
3.	Livestock	0	92466	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	871	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	56	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	173	0	0	0	0	0
8.	Dairy products	0	681	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	110	0	0	0	0	0
10.	Other food products	43	779	0	0	0	0	0
11.	Beverages	0	1835	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	303	0	0	0	0	0	13
14.	Readymade garments	284	7	35	9775	209	24	1
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	4424	14	0	384	0	12	0
17.	Electronic equipment	17	0	1	898	20	19	1
18.	Electrical equipment	1963	6	8	7007	35	27	1
19.	Machinery and equipment n.e.c.	403	17	0	271	0	1	0
20.	Transport equipment	6030	67	18	12840	3	9	0
21.	Petroleum and coal tar products	49103	1251	162	443842	727	805	20
22.	Inorganic and Organic Chemicals	11831	7	0	7855	0	0	15
23.	Drugs and medicine	0	0	0	25024	0	0	0
24.	Rubber & plastic products	2513	94	0	32129	0	9	27
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	8812	0	0	0	0	0	0
27.	Paper, Paper products and newsprint	1659	2	31	28456	130	38	4
28.	Publishing & printing	272	1	11	940	48	27	2
29.	Furniture & Fixtures	204	0	2	185	6	7	2
30.	Other Manufacturing	2488	13	32	23650	262	37	2
31.	Repair and installation of machinery and equipments	9277	100	0	15747	0	23	0
32.	Construction	21482	23	103	6650	122	107	1
33.	Electricity	23323	1443	139	18449	590	340	21
34.	Gas	0	9	0	12882	2	1	0
35.	Water Supply	2196	246	42	17862	264	158	7
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	18650	16	18	20632	75	65	3
38.	Railway Transport	104	0	0	89	16	3	0
39.	Land transport	10248	7	0	3	0	26	0
40.	Air transport	2952	4	0	385	8	56	0
41.	Supportive and Auxiliary transport activities	121	33	0	344	0	39	0
42.	Storage and warehousing	10	3	0	0	0	0	0
43.	Communication services	6562	135	70	165030	336	643	9
44.	Financial, Legal, and Insurance services	50795	735	8	32396	279	264	4
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	346	2	3	315	118	39	8
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	57	6	0	2	3	2	0
49.	Business services	29316	1179	148	39179	807	338	28
50.	Real estate services	2433	0	4	8579	0	0	1
51.	Renting of machinery & equipment	661	1	1	712	17	0	0
52.	Community, social, and personal services	15	8	1	36	7	1	0
53.	Other services	178	23	9	357	3	4	1
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Inputs (at pp)</b>		<b>269073</b>	<b>115628</b>	<b>903</b>	<b>954858</b>	<b>4088</b>	<b>3124</b>	<b>171</b>
<b>GVA (at bp)</b>		<b>787168</b>	<b>150182</b>	<b>1788</b>	<b>377569</b>	<b>1316</b>	<b>6022</b>	<b>136</b>
<b>Output (at bp)</b>		<b>1056241</b>	<b>265810</b>	<b>2691</b>	<b>1332427</b>	<b>5404</b>	<b>9146</b>	<b>307</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Communication services	Financial, Legal and Insurance services	Ownership of dwellings	Education	Health	Computer related services	Business services
		43	44	45	46	47	48	49
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	0	0	0	0
3.	Livestock	0	0	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	0	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	0	0	0	0	0	0
10.	Other food products	0	10	0	0	0	0	0
11.	Beverages	0	0	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	4	83	0	0	536	0	0
14.	Readymade garments	2788	44	0	125	129	10	24
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	52	14	0	426	103	5	12
17.	Electronic equipment	3739	76	0	84	24	10	8
18.	Electrical equipment	99324	1235	0	120	41	17	27
19.	Machinery and equipment n.e.c.	5019	84	0	21	4	4	8
20.	Transport equipment	239	30	0	211	17	22	15
21.	Petroleum and coal tar products	249542	5772	0	3159	379	225	3715
22.	Inorganic and Organic Chemicals	0	0	0	0	2	0	0
23.	Drugs and medicine	0	0	0	13571	148639	0	0
24.	Rubber & plastic products	448	115	0	451	13	6	19
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	0	277	0	0	0	0	0
27.	Paper, Paper products and newsprint	32749	3872	0	7942	204	57	203
28.	Publishing & printing	1825	1151	0	136	75	19	57
29.	Furniture & Fixtures	1402	36	0	179	49	8	35
30.	Other Manufacturing	24555	4191	0	180	46	22	123
31.	Repair and installation of machinery and equipments	525	766	168	1590	595	1	163
32.	Construction	56646	3476	30647	1662	633	425	969
33.	Electricity	208077	23381	0	3209	1600	348	458
34.	Gas	374	0	0	53	29	8	3
35.	Water Supply	2670	4400	0	981	398	95	151
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	24523	16122	0	596	151	160	72
38.	Railway Transport	120	200	0	105	0	54	37
39.	Land transport	4475	197	0	85	20	42	6
40.	Air transport	3295	7737	0	5196	969	0	167
41.	Supportive and Auxiliary transport activities	112	272	0	107	7	22	42
42.	Storage and warehousing	0	5	0	0	0	0	0
43.	Communication services	336595	9022	0	2395	449	798	1260
44.	Financial, Legal, and Insurance services	95934	18233	6928	9197	8478	3047	4074
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	632	236	0	2629	221	100	237
47.	Health	0	345	0	0	469	0	0
48.	Computer related services	660	122	0	10	117	10	63
49.	Business services	149347	29542	0	27187	3347	7001	3405
50.	Real estate services	6647	7	0	0	0	0	0
51.	Renting of machinery & equipment	2108	0	0	0	0	82	0
52.	Community, social, and personal services	186	56	0	46	5	1	7
53.	Other services	558	171	0	1464	409	10	43
54.	Public administration and defence	0	0	0	0	0	0	0
Inputs (at pp)		1315171	131282	37743	83120	168157	12607	15407
GVA (at bp)		262033	389386	1071237	233649	34517	14322	26399
Output (at bp)		1577203	520667	1108980	316769	202674	26930	41806



**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Real estate services	Renting of machinery & equipment	Community, social and personal services	Other services	Public administration and defence	IIUSE
		50	51	52	53	54	
1.	Apples	0	0	0	0	0	70254
2.	Agriculture (other than Apples)	0	0	0	0	58225	292240
3.	Livestock	0	0	0	0	42280	184960
4.	Forestry and Logging	0	0	0	0	6127	90421
5.	Fishing & Aquaculture	0	0	0	0	0	2218
6.	Limestone and other minor minerals	0	0	0	0	0	219726
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	1890	6164
8.	Dairy products	0	0	0	0	772	34376
9.	Grain mill products, etc. and animal feeds	0	0	0	0	6537	51792
10.	Other food products	0	0	0	0	8499	215922
11.	Beverages	0	0	0	0	8761	23692
12.	Tobacco products	0	0	0	0	0	4
13.	Textiles & cotton ginning	1	41	716	3	0	69975
14.	Readymade garments	23	127	3173	68	530	23703
15.	Leather and related products	0	0	0	0	545	10641
16.	Metal and Metal Products	1	468	3371	77	324	1176985
17.	Electronic equipment	3	95	239	46	76	119759
18.	Electrical equipment	60	428	13058	80	1422	490604
19.	Machinery and equipment n.e.c.	9	606	878	22	85	209346
20..	Transport equipment	82	2746	7879	196	5613	98449
21.	Petroleum and coal tar products	2118	6054	19604	1420	104	1025737
22.	Inorganic and Organic Chemicals	0	0	0	0	27409	980987
23.	Drugs and medicine	0	0	0	0	3789	385187
24.	Rubber & plastic products	48	520	47617	224	58	256359
25.	Other non-metallic mineral products	0	0	0	0	0	156140
26.	Wood and wood products except furniture	0	0	0	0	0	43758
27.	Paper, Paper products and newsprint	163	420	18462	246	136	285772
28.	Publishing & printing	8	207	1247	112	118	10305
29.	Furniture & Fixtures	51	183	576	35	802	12909
30.	Other Manufacturing	218	1011	29852	472	234	628851
31.	Repair and installation of machinery and equipments	10	1672	2571	171	0	78563
32.	Construction	395	292	62977	259	12923	218789
33.	Electricity	656	1761	65321	2818	7420	604973
34.	Gas	0	0	0	64	0	17816
35.	Water Supply	193	693	18106	760	9063	110373
36.	Trade	0	0	0	0	0	0
37.	Hotels & Restaurant	125	209	8175	234	3725	119701
38.	Railway Transport	14	0	0	136	264	2345
39.	Land transport	49	437	2295	547	1738	180110
40.	Air transport	19	1	122	203	6555	34501
41.	Supportive and Auxiliary transport activities	7	34	73	3	5	1431
42.	Storage and warehousing	8	9	34	0	0	221
43.	Communication services	267	1648	458	2046	0	1076222
44.	Financial, Legal, and Insurance services	545	3159	13461	10162	0	343996
45.	Ownership of dwellings	0	0	0	0	0	0
46.	Education	31	530	1912	203	0	9629
47.	Health	0	0	0	12	0	870
48.	Computer related services	89	3	356	88	67	2779
49.	Business services	395	6272	154810	19403	18939	737033
50.	Real estate services	108	379	135	0	0	38713
51.	Renting of machinery & equipment	503	196	10547	196	0	81160
52.	Community, social, and personal services	4	12	362	63	0	1169
53.	Other services	4	194	3515	1440	2	14497
54.	Public administration and defence	0	0	0	0	0	0
<b>Inputs (at pp)</b>		6206	30405	491900	41810	235036	10852126
<b>GVA (at bp)</b>		31312	53556	1134323	85135	683289	12659912
<b>Output (at bp)</b>		37518	83961	1626223	126946	918325	23512038



**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		PFCE	GFCE	GCF (GFCF and CIs)	Valuables	EXP	TFUSE	Total Use
1.	Apples	74387	0	0	0	268620	343007	413262
2.	Agriculture (other than Apples)	606021	0	1	0	360494	966516	1258756
3.	Livestock	404892	0	4961	0	2405	412257	597218
4.	Forestry and Logging	194626	0	0	0	431953	626579	717001
5.	Fishing & Aquaculture	16943	0	0	0	2642	19585	21803
6.	Limestone and other minor minerals	1818	0	1324	0	14728	17870	237596
7.	Processed meat, fish, fruit, vegetables, oils and fats	33634	0	0	0	6990	40624	46788
8.	Dairy products	76824	0	3003	0	799	80626	115002
9.	Grain mill products, etc. and animal feeds	43534	0	5747	0	10760	60041	111834
10.	Other food products	465332	0	8393	0	86747	560472	776393
11.	Beverages	43065	0	3209	0	5222	51497	75189
12.	Tobacco products	927	0	1013	0	3940	5880	5884
13.	Textiles & cotton ginning	41935	0	5764	0	105967	153666	223641
14.	Readymade garments	13842	0	3123	0	5543	22508	46211
15.	Leather and related products	63785	0	726	0	28041	92551	103192
16.	Metal and Metal Products	13556	0	597707	0	38530	649793	1826778
17.	Electronic equipment	29455	0	300847	0	2695	332997	452756
18.	Electrical equipment	84222	0	1166711	0	30293	1281226	1771830
19.	Machinery and equipment n.e.c.	0	0	688906	0	92481	781387	990733
20.	Transport equipment	92618	0	145893	0	33511	272022	370471
21.	Petroleum and coal tar products	505449	0	0	0	1736	507186	1532923
22.	Inorganic and Organic Chemicals	326924	0	434743	0	417312	1178979	2159966
23.	Drugs and medicine	503530	0	181575	0	425099	1110204	1495391
24.	Rubber & plastic products	399660	0	44604	0	19316	463581	719940
25.	Other non-metallic mineral products	0	0	810	0	1939	2749	158889
26.	Wood and wood products except furniture	0	0	29298	0	2739	32037	75795
27.	Paper, Paper products and newsprint	48716	0	0	0	8860	57576	343348
28.	Publishing & printing	10172	0	0	0	1516	11688	21993
29.	Furniture & Fixtures	2010	0	5176	0	4700	11886	24795
30.	Other Manufacturing	111716	0	153591	118338	237496	621141	1249992
31.	Repair and installation of machinery and equipments	0	0	0	0	0	0	78563
32.	Construction	92200	0	2265432	0	0	2357631	2576421
33.	Electricity	45771	0	120636	0	2237	168644	773617
34.	Gas	18601	0	0	0	0	18601	36417
35.	Water Supply	6155	0	0	0	0	6155	116528
36.	Trade	0	0	0	0	0	0	0
37.	Hotels & Restaurant	149626	0	0	0	0	149626	269327
38.	Railway Transport	4221	0	0	0	0	4221	6566
39.	Land transport	372818	0	0	0	0	372818	552928
40.	Air transport	86	0	0	0	0	86	34587
41.	Supportive and Auxiliary transport activities	124	0	0	0	33	157	1588
42.	Storage and warehousing	0	0	0	0	0	0	221
43.	Communication services	532097	0	0	0	13276	545374	1621596
44.	Financial, Legal, and Insurance services	0	194618	0	0	11210	205828	549824
45.	Ownership of dwellings	313207	793079	0	0	0	1106286	1106286
46.	Education	7290	515693	0	0	0	522983	532611
47.	Health	40418	174040	0	0	0	214458	215328
48.	Computer related services	0	0	66235	0	0	66235	69014
49.	Business services	243861	0	20856	0	26809	291526	1028559
50.	Real estate services	1572	0	0	0	0	1572	40285
51.	Renting of machinery & equipment	0	0	0	0	0	0	81160
52.	Community, social, and personal services	770340	833065	0	0	30000	1633405	1634574
53.	Other services	90602	52301	0	0	2924	145828	160324
54.	Public administration and defence	0	918325	0	0	0	918325	918325
<b>Inputs (at pp)</b>		<b>6898585</b>	<b>3481121</b>	<b>6260281</b>	<b>118338</b>	<b>2739563</b>	<b>19497888</b>	<b>30350015</b>



## IV. Input-Output Table for Himachal Pradesh

An Input-output transactions table (IOTT) is a representation of national, sub-national or regional economic accounting which presents the transactions among the economic sectors or activities. It represents the flow of products and services, both by origin and by destination. The table illustrates the relationship between producers and consumers as well as interdependencies of sectors for a given year.

A row in an IO table shows the sales made by one economic sector to various sectors and final uses, whereas a column shows what the sector purchased from different sectors for its intermediate consumption and primary inputs, consisting of taxes less subsidies on production and imports, imports of goods and services, compensation of employees, consumption of fixed capital and net operating surplus/mixed income. The IO table with  $n$  sectors is shown in Table IV.1.

**Table IV. 1: Structure of an Input-Output Table**

	Intermediate uses	Final uses			Gross output
	123.....j.....n	Consumption expenditure	Capital Formation	Net Exports	
1	$x_{11} x_{12} \dots x_{1j} \dots x_{1n}$	$c_1$	$f_1$	$e_1$	$X_1$
2	$x_{21} x_{22} \dots x_{2j} \dots x_{2n}$	$c_2$	$f_2$	$e_2$	$X_2$
.	.....	.	.	.	.
.	.....	.	.	.	.
I	$x_{i1} x_{i2} \dots x_{ij} \dots x_{in}$	$c_i$	$f_i$	$e_i$	$X_i$
.	.....	.	.	.	.
N	$x_{n1} x_{n2} \dots x_{nj} \dots x_{nn}$	$c_n$	$f_n$	$e_n$	$X_n$
Primary inputs	$p_1 p_2 \dots p_j \dots p_n$	C	F	E	

The basis of an IO Table is the Supply and Use Matrices. IO tables cannot be compiled without passing through the supply and use stage. Symmetric IO tables are the basis for input-output analysis. While SUTs are close to statistical sources and actual observations, IO tables provide analytical framework for economic analysis.

The IO table framework, therefore, comprises of the following.

1. supply table at basic prices (bp)
2. use table at purchasers' prices (pp)

3. conversion of use table at pp to that at bp.

While both supply and use tables are (product X industry) tables, the I-O tables are either (product X product) or (industry X industry) tables. Both the SUTs and I-O tables provide the inter-industry dependencies and relationship between producers and consumers. Thus, they offer the most detailed picture of the economy, which essentially involves:

- **production** - industries producing products in the form of goods and services.
- **consumption** – both intermediate consumption of goods and services by industries and final consumption of goods and services by domestic final users comprising:
  - households, non-profit institutions serving households (NPISHs)
  - general government (all levels of Government in the economy)
  - accumulation that involves gross fixed capital formation (GFCF) and change in inventories
  - transactions with the rest of the world (exports and imports).

The starting point of I-O table is the use table at purchasers' prices, which, as mentioned earlier, is a product by industry table. Generally, the use table is rectangular with more products than industries, given that each industry produces main products as well as by-products. The national SUT is also rectangular with 140 products and 66 industries. The original SUT prepared for the state of HP also had the same dimensions. However, for the I-O table, rows and columns should both have either products or industries with individual row totals and columns totals to be equal, which necessitates that the I-O tables are square and symmetric.

The following steps are undertaken to convert the SUTs to IOTT:

**Conversion of Use Table to basic prices**

- As mentioned earlier, it is necessary to bring both supply table and use table to basic price valuations. The supply table is already at basic prices. The Use table needs to be converted to basic prices. The difference between basic price and purchaser's price can be explained in the equation below:

Purchaser's price = Basic price + Trade margin + Transport cost + Taxes on products – Subsidies of products.

- Hence, in order to convert the Use Table to basic price, trade margin, Transport cost and net subsidies need to be segregated from the cell values and placed in the respective rows of trade, transport and taxes less subsidies on products. In practice, a table of trade and transport margins and a table of taxes less subsidies on products are separately compiled using the same structure as the Use Table in purchasers' prices. The values in these tables are then deducted from the corresponding values in the Use Table at purchasers' prices. Then, the row of column sums of the table of trade and transport margins is added back to

the row of trade and transport services. Similarly, an extra row of taxes less subsidies is created in the use table which takes the values of the row of the column sums of the table of taxes less subsidies.

- Hence, the extracted trade and transport margins (TTM) from the cell values are assigned to the respective rows which already exist in the Use Table. In addition, a separate row on taxes less subsidies on products is introduced at the end of the product rows, as intermediate consumption of industries.
- The resultant Use Table is the one at basic prices. However, this table presents the use of domestic inputs as well as imported inputs. The IO table, on the other hand, presents only domestic transactions among the economic sectors. This is because the economic analysis demands an assessment of the economic impacts on the domestic industries or sectors. Hence, the next step is to separate the Use Table at basic prices into:
  - Use Table for domestic output at basic prices; and
  - Use Table of imports at basic prices.
- A vector for imports of goods and services is available in the Supply Table at basic prices. For the compilation of a Use Table of imports at basic prices, this import vector from Supply Table is used while assuming that the output structure for products in the Use Table at basic prices is also valid for the import matrix. In other words, it is assumed that industries and final users in the economy have no specific preference towards domestic and imported products. Hence, the values of imports are segregated from each cell value and kept as a separate row.

### **Transforming Symmetric SUT to IOTT**

The models which are commonly used to transform the SUT to IOTT are based on:

1. Product technology assumption, which is used to generate product X product IOTT.
2. Fixed Product Sales Structure assumption, which is used to generate industry X industry IOTT.

While industry by industry I-O tables are close to statistical sources and more heterogeneous in terms of input structures, product by product I-O tables are believed to be more homogeneous in terms of cost structures. The choice of empirical research for modelling and impact analysis, determines which type of I-O tables should be compiled and used.

### **Product X Product IOTT**

According to the product technology assumption, each product is produced in its own specific way, irrespective of the industry where it is produced. This means that there is only way to produce each product. For each product the same proportions of products and factor inputs are used to produce one unit of the product disregarding in/irrespective in which industry the product is actually produced.

Product-by-product IO tables are compiled by post-multiplying the use matrix and value added matrix with a transformation matrix reflecting product technology. Here, the final demand quadrant does not undergo any transformation as their values are already in terms of products.

The transformation matrix in this case is computed from the Supply Table. Also known as the C matrix (or product mix matrix) it is computed with column total of output as 1. It is the transpose of the column coefficient matrix of Supply Table.

$$\text{Hence, IOTT (C X C) = Use Matrix * Transpose C}$$

### **Industry X Industry IOTT**

According to the fixed product sales structure assumption, each product has its own specific sales structure, irrespective of the industry where it is produced.

Industry-by-industry I-O tables can be derived from the supply and use system by pre-multiplying the use matrix and final use matrix with a transformation matrix reflecting the fixed product sales structure. Here, the value added quadrant does not undergo any transformation as their values are already in terms of industries.

The transformation matrix in this case is called T matrix (or market share matrix) and is computed with row total of domestic output at basic prices as 1. It is the transpose of the row coefficient matrix of Supply Table.

$$\text{Hence, IOTT (I X I) = Transpose T * Use Matrix}$$

Hence obtained Product X Product Matrix and Industry X Industry Matrix are presented in Tables IV.2 and IV.3.

**Table IV. 2: Product X Product Input-Output Table, 2017-18 (Rs lakh)**

	Apples	Agriculture (other than Apples)	Livestock	Forestry and Logging	Fishing & Aquaculture	Limestone and other minor minerals	Processed meat, fish, fruit, vegetables, oils and fats
	1	2	3	4	5	6	7
1. Apples	2632	7617	0	0	0	0	1096
2. Agriculture (other than Apples)	0	23453	80676	0	4	0	4
3. Livestock	284	2705	10774	0	479	0	1076
4. Forestry and Logging	0	0	684	658	0	0	2612
5. Fishing & Aquaculture	0	0	0	0	238	0	19
6. Limestone and other minor minerals	0	0	0	0	166	0	1
7. Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	67
8. Dairy products	0	0	0	0	0	0	7
9. Grain mill products, etc. and animal feeds	0	0	3882	0	2	0	54
10. Other food products	0	0	18236	0	3	0	2172
11. Beverages	0	0	0	0	0	0	1
12. Tobacco products	0	0	0	0	0	0	0
13. Textiles & cotton ginning	0	0	0	144	3	82	0
14. Readymade garments	2	20	0	1179	0	122	0
15. Leather and related products	0	0	0	0	0	0	0
16. Metal and Metal Products	1	11	0	4499	10	587	0
17. Electronic equipment	3	27	0	85	0	18	0
18. Electrical equipment	1	8	0	1594	0	61	0
19. Machinery and equipment n.e.c.	114	1087	62	17	0	2083	0
20. Transport equipment	34	327	0	926	3	1	0
21. Petroleum and coal tar products	93	884	0	357	1	134	4
22. Inorganic and Organic Chemicals	2366	22517	0	0	5	0	171
23. Drugs and medicine	0	0	15114	0	21	0	39
24. Rubber & plastic products	0	2	0	687	0	1603	0
25. Other non-metallic mineral products	0	0	0	0	0	0	0
26. Wood and wood products except furniture	0	0	3520	888	3	0	0
27. Paper, Paper products and newsprint	3	31	0	1045	0	726	0
28. Publishing & printing	0	2	0	61	0	7	0
29. Furniture & Fixtures	1	13	0	196	0	62	0
30. Other Manufacturing	1	14	13463	4670	0	111	265
31. Repair and installation of machinery and equipments	3	31	0	406	0	640	4
32. Construction	1038	9882	182	3007	0	23	0
33. Electricity	2675	25466	0	6135	0	78	180
34. Gas	0	0	0	8	0	0	1
35. Water Supply	6	61	0	1727	1	175	0
36. Trade	1459	10038	16135	2018	127	813	1069
37. Hotels & Restaurant	4	38	0	2154	0	0	0
38. Railway Transport	1	8	12	2	0	5	2
39. Land transport	1211	8334	108751	18230	106	1413	902
40. Air transport	0	1	1	0	0	0	0
41. Supportive and Auxiliary transport activities	11	79	127	16	1	6	12
42. Storage and warehousing	0	0	0	1	0	0	0
43. Communication services	8	74	0	3206	0	3	4
44. Financial, Legal, and Insurance services	2307	21961	771	889	2	432	0
45. Ownership of dwellings	0	0	0	0	0	0	0
46. Education	1	8	0	1001	0	26	0
47. Health	0	0	0	2	0	0	0
48. Computer related services	0	0	0	0	0	0	0
49. Business services	10	96	0	9155	0	7372	10
50. Real estate services	0	4	0	0	0	0	0
51. Renting of machinery & equipment	0	1	0	0	0	29	19
52. Community, social, and personal services	0	0	0	37	0	7	0
53. Other services	6	57	0	138	0	37	2
54. Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>	<b>14279</b>	<b>134856</b>	<b>272390</b>	<b>65137</b>	<b>1176</b>	<b>16656</b>	<b>9793</b>
<b>Taxes on products</b>	<b>579</b>	<b>4226</b>	<b>4885</b>	<b>3576</b>	<b>0</b>	<b>1324</b>	<b>334</b>
<b>Imports</b>	<b>3924</b>	<b>39691</b>	<b>76166</b>	<b>35658</b>	<b>427</b>	<b>6757</b>	<b>2631</b>
<b>Total IC at purchaser's prices</b>	<b>18782</b>	<b>178774</b>	<b>353441</b>	<b>104370</b>	<b>1603</b>	<b>24737</b>	<b>12759</b>
<b>Gross value added at basic prices</b>	<b>209433</b>	<b>756404</b>	<b>165890</b>	<b>462619</b>	<b>16197</b>	<b>36746</b>	<b>6836</b>
<b>Gross output at basic prices (Rs lakh)</b>	<b>228215</b>	<b>935178</b>	<b>519331</b>	<b>566989</b>	<b>17800</b>	<b>61484</b>	<b>19595</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Dairy products	Grain mill products, etc. and animal feeds	Other food products	Beverages	Tobacco products	Textiles & cotton ginning	Readymade garments
		8	9	10	11	12	13	14
1.	Apples	47	10838	9699	284	0	0	0
2.	Agriculture (other than Apples)	153	11156	4847	55	0	46	1
3.	Livestock	1235	219	8530	217	0	8250	141
4.	Forestry and Logging	98	0	11290	28	510	53	0
5.	Fishing & Aquaculture	1	0	78	0	0	0	0
6.	Limestone and other minor minerals	1	366	497	88	3	82	1
7.	Processed meat, fish, fruit, vegetables, oils and fats	81	309	581	6	72	1	0
8.	Dairy products	308	15	3885	199	0	0	0
9.	Grain mill products, etc. and animal feeds	471	14532	11445	1011	0	44	0
10.	Other food products	1053	4276	52578	2577	10	103	0
11.	Beverages	11	7	1689	2293	0	8	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	0	0	1	80	0	24460	1129
14.	Readymade garments	0	0	0	0	0	16	95
15.	Leather and related products	0	0	0	0	0	16	0
16.	Metal and Metal Products	0	0	25	8	15	222	14
17.	Electronic equipment	0	0	0	0	0	3	0
18.	Electrical equipment	0	0	0	0	0	4	0
19.	Machinery and equipment n.e.c.	0	0	0	0	0	17	0
20.	Transport equipment	0	0	0	0	0	16	0
21.	Petroleum and coal tar products	7	53	112	11	0	46	5
22.	Inorganic and Organic Chemicals	40	5	5020	352	13	8660	361
23.	Drugs and medicine	7	193	9041	148	0	20	38
24.	Rubber & plastic products	0	91	56	822	0	3686	194
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	0	0	364	0	294	50	15
27.	Paper, Paper products and newsprint	0	18	12	0	0	1996	37
28.	Publishing & printing	0	0	0	0	0	2	0
29.	Furniture & Fixtures	0	0	0	0	0	32	1
30.	Other Manufacturing	315	1115	6321	1296	24	1152	30
31.	Repair and installation of machinery and equipments	0	2	20	2	0	1	3
32.	Construction	0	23	23	1	0	4	8
33.	Electricity	538	5401	6304	730	121	8192	925
34.	Gas	78	2	715	37	0	30	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	368	8281	14945	1047	94	4221	181
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	0	11	23	1	0	5	9
39.	Land transport	306	7190	12644	873	107	3536	246
40.	Air transport	0	1	1	0	0	0	0
41.	Supportive and Auxiliary transport activities	4	68	184	11	1	35	9
42.	Storage and warehousing	0	0	5	0	0	0	0
43.	Communication services	1	86	72	3	1	24	120
44.	Financial, Legal, and Insurance services	0	95	112	4	0	5	20
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	1	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	1	1628	772	11	1	586	3491
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	5	114	416	16	0	193	1201
52.	Community, social, and personal services	0	0	9	0	0	2	7
53.	Other services	0	1074	377	2	0	33	152
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		5131	67170	162697	12212	1266	65853	8433
Taxes on products		143	1086	8114	1227	73	3792	484
Imports		3953	10569	83399	9412	342	23194	1080
Total IC at purchaser's prices		9227	78825	254210	22852	1681	92838	9997
Gross value added at basic prices		6888	15379	185886	16714	915	38377	19881
Gross output at basic prices (Rs. lakh)		16115	94204	440096	39566	2596	131215	29878



**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Leather and related products	Metal and Metal Products	Electronic equipment	Electrical equipment	Machinery and equipment n.e.c.	Transport equipment	Petroleum and coal tar products
		15	16	17	18	19	20	21
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	97	16	2	54	100	55	2
3.	Livestock	3997	15	0	0	0	0	0
4.	Forestry and Logging	0	261	5	0	0	0	1
5.	Fishing & Aquaculture	0	411	32	112	40	1	0
6.	Limestone and other minor minerals	389	16438	329	1414	1328	725	2
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	164	5	0	0	0	0
10.	Other food products	0	100	3	0	0	0	15
11.	Beverages	0	0	0	0	0	0	2
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	3739	312	334	1188	378	93	0
14.	Readymade garments	690	3	0	0	0	0	0
15.	Leather and related products	3702	88	74	593	489	90	0
16.	Metal and Metal Products	101	139736	20262	77972	39361	12631	0
17.	Electronic equipment	1	3559	14224	38973	7285	676	0
18.	Electrical equipment	0	11377	21349	84787	26606	4109	0
19.	Machinery and equipment n.e.c.	22	7825	7860	32369	20844	10396	0
20.	Transport equipment	0	2393	328	975	7791	8590	0
21.	Petroleum and coal tar products	8	1054	19	127	38	16	1287
22.	Inorganic and Organic Chemicals	3729	44369	2881	11657	6454	1799	1321
23.	Drugs and medicine	0	6	2	6	2	0	488
24.	Rubber & plastic products	2167	5591	6252	23390	9996	3494	2
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	58	798	76	167	69	59	0
27.	Paper, Paper products and newsprint	60	8184	976	2651	1710	1250	0
28.	Publishing & printing	0	5	0	0	0	0	0
29.	Furniture & Fixtures	0	182	67	139	540	636	0
30.	Other Manufacturing	868	11630	6246	21960	7743	1638	23
31.	Repair and installation of machinery and equipments	1	20	2	5	1	0	0
32.	Construction	0	14	0	1	0	0	0
33.	Electricity	845	57041	3410	14538	6301	2274	108
34.	Gas	1	223	103	527	501	267	0
35.	Water Supply	0	3861	6351	22790	6088	313	0
36.	Trade	2348	33574	7419	28147	14097	5519	1510
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	3	47	12	43	13	4	1
39.	Land transport	1955	28713	6451	24797	12010	4618	1253
40.	Air transport	0	3	1	3	1	1	0
41.	Supportive and Auxiliary transport activities	18	276	59	223	112	44	12
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	2	32090	52663	189514	50479	2599	0
44.	Financial, Legal, and Insurance services	0	26	1	6	1	0	0
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	53	1798	49	18260	88	26	0
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	28	642	56	7505	79	31	0
52.	Community, social, and personal services	0	10	0	0	0	0	0
53.	Other services	1	225	2	138	9	3	0
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		24881	413080	157904	605028	220555	61957	6029
Taxes on products		1463	42581	16331	58979	21945	6326	628
Imports		10051	208979	51547	191999	92361	37295	35612
Total IC at purchaser's prices		36395	664640	225782	856005	334860	105578	42269
Gross value added at basic prices		21710	306008	69885	318919	121997	37671	8216
Gross output at basic prices (Rs. lakh)		58104	970648	295667	1174924	456858	143249	50485

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Inorganic and Organic Chemicals	Drugs and medicine	Rubber & plastic products	Other non-metallic mineral products	Wood and wood products except furniture	Paper, Paper products and newsprint	Publishing & printing
		22	23	24	25	26	27	28
1.	Apples	3984	53	0	0	0	0	0
2.	Agriculture (other than Apples)	1918	464	44	0	0	0	0
3.	Livestock	4485	177	914	0	7	0	0
4.	Forestry and Logging	10290	380	211	0	240	2577	0
5.	Fishing & Aquaculture	71	0	14	0	0	0	0
6.	Limestone and other minor minerals	3030	543	537	0	93	1763	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	468	55	2	0	0	0	0
8.	Dairy products	36	126	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	295	304	79	0	7	2261	0
10.	Other food products	27153	5603	242	0	2	1445	0
11.	Beverages	2213	613	21	0	0	0	0
12.	Tobacco products	0	1	0	0	0	0	0
13.	Textiles & cotton ginning	1918	152	2164	0	12	33	2
14.	Readymade garments	2	0	93	0	0	0	0
15.	Leather and related products	3	0	525	0	0	0	0
16.	Metal and Metal Products	1116	127	11252	3	150	7548	85
17.	Electronic equipment	173	0	1151	0	0	36	1
18.	Electrical equipment	500	0	3419	0	0	55	0
19.	Machinery and equipment n.e.c.	226	0	3017	0	2	0	0
20.	Transport equipment	7	0	1578	0	0	2	0
21.	Petroleum and coal tar products	194	63	124	0	6	110	0
22.	Inorganic and Organic Chemicals	129073	14486	115141	1	5345	13382	43
23.	Drugs and medicine	10998	135695	297	0	158	53	0
24.	Rubber & plastic products	3506	655	7072	0	23	5219	92
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	35	1	1325	0	2577	2222	0
27.	Paper, Paper products and newsprint	1977	108	9228	0	10536	105491	210
28.	Publishing & printing	1	0	3	0	0	72	0
29.	Furniture & Fixtures	5	1	113	0	3	0	0
30.	Other Manufacturing	13356	-5870	4657	0	471	2120	4
31.	Repair and installation of machinery and equipments	14	0	5	0	2	3	0
32.	Construction	1	1	1	0	2	0	0
33.	Electricity	10035	4098	17903	1	1012	7359	19
34.	Gas	11	30	76	0	0	37	0
35.	Water Supply	181	0	1026	0	0	0	0
36.	Trade	23592	2129	16667	1	1496	10286	33
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	24	2	23	0	17	10	0
39.	Land transport	19651	1768	14005	0	1440	8572	29
40.	Air transport	2	0	2	0	0	1	0
41.	Supportive and Auxiliary transport activities	200	18	133	0	14	85	0
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	1516	1	8542	0	60	14	1
44.	Financial, Legal, and Insurance services	2	3	5	0	4	2	0
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	120	7	491	0	702	104	6
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	99	10	109	0	78	73	4
52.	Community, social, and personal services	0	0	0	0	0	0	0
53.	Other services	10	0	94	0	172	16	1
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		272488	161804	222302	6	24630	170953	532
Taxes on products		26473	14448	23611	1	2504	14875	55
Imports		141486	-6520	90547	3	5789	31088	123
Total IC at purchaser's prices		440448	169733	336460	10	32923	216916	709
Gross value added at basic prices		758861	1178131	130465	5	12214	67113	176
Gross output at basic prices (Rs. lakh)		1199308	1347864	466926	14	45137	284029	885

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Furniture & Fixtures	Other Manufacturing	Repair and installation of machinery and equipments	Construction	Electricity	Gas	Water Supply
		29	30	31	32	33	34	35
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	1	26	0	21720	191	0	0
3.	Livestock	1	0	0	0	0	0	0
4.	Forestry and Logging	199	10	0	36290	0	0	0
5.	Fishing & Aquaculture	0	69	0	0	0	0	0
6.	Limestone and other minor minerals	28	1395	0	25109	241	0	1907
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	2	0	0	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	1	3	0	0	0	0	0
10.	Other food products	0	140	2	0	0	0	0
11.	Beverages	0	17	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	12	100	14	55	0	0	0
14.	Readymade garments	0	0	14	924	34	434	11
15.	Leather and related products	0	90	0	0	0	0	0
16.	Metal and Metal Products	270	28259	178	263308	590	7785	377
17.	Electronic equipment	113	8248	1	14	0	54	1
18.	Electrical equipment	78	8420	99	24531	41	884	79
19.	Machinery and equipment n.e.c.	130	2918	14	4018	1	0	0
20.	Transport equipment	124	985	177	2	0	1	2
21.	Petroleum and coal tar products	1	31	123	1927	79	141	465
22.	Inorganic and Organic Chemicals	660	12220	499	109238	0	0	966
23.	Drugs and medicine	21	2343	0	0	0	0	0
24.	Rubber & plastic products	47	2253	124	30135	0	0	3671
25.	Other non-metallic mineral products	0	0	0	14	0	0	0
26.	Wood and wood products except furniture	473	172	398	5491	0	0	0
27.	Paper, Paper products and newsprint	1258	231	104	731	170	725	132
28.	Publishing & printing	0	0	1	1	1	4	2
29.	Furniture & Fixtures	30	32	6	1179	1	16	8
30.	Other Manufacturing	85	4125	36	5125	25	152	15
31.	Repair and installation of machinery and equipments	1	3	719	44939	0	0	0
32.	Construction	0	1	1631	0	590	1560	2579
33.	Electricity	175	5030	1788	36074	96	2061	2989
34.	Gas	3	83	0	1662	0	0	0
35.	Water Supply	0	1259	168	6393	390	1198	721
36.	Trade	303	7336	279	65948	300	1185	1718
37.	Hotels & Restaurant	0	0	1406	22182	149	516	914
38.	Railway Transport	3	21	3	136	7	18	9
39.	Land transport	298	6255	967	83052	249	984	3784
40.	Air transport	0	1	34	682	0	1	373
41.	Supportive and Auxiliary transport activities	3	61	11	542	2	9	14
42.	Storage and warehousing	0	0	1	204	0	0	0
43.	Communication services	11	10463	485	167710	581	2073	6598
44.	Financial, Legal, and Insurance services	1	14	3546	40690	392	469	10968
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	16	162	4	23	3
47.	Health	0	0	0	39	0	0	0
48.	Computer related services	0	0	2	434	1	3	0
49.	Business services	139	474	2040	25802	841	3120	7739
50.	Real estate services	0	0	172	19016	0	0	0
51.	Renting of machinery & equipment	30	189	52	955	0	0	17
52.	Community, social, and personal services	0	2	1	189	3	44	11
53.	Other services	28	36	11	343	3	132	4
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		4527	103313	15120	1046963	4984	23595	46078
Taxes on products		475	13287	609	87542	281	2240	2067
Imports		1403	46107	4701	491378	3130	8670	21242
Total IC at purchaser's prices		6406	162706	20430	1625883	8396	34505	69388
Gross value added at basic prices		2450	77702	59767	949890	772533	2030	48284
Gross output at basic prices (Rs. lakh)		8855	240408	80197	2575773	780929	36534	117672

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Trade	Hotels & Restaurant	Railway Transport	Land transport	Air transport	Supportive and Auxiliary transport activities	Storage and warehousing
		36	37	38	39	40	41	42
1.	Apples	0	11	0	0	0	0	0
2.	Agriculture (other than Apples)	0	9857	0	16310	0	0	0
3.	Livestock	0	80431	0	0	0	0	0
4.	Forestry and Logging	0	3	0	0	0	0	0
5.	Fishing & Aquaculture	0	711	0	0	0	0	0
6.	Limestone and other minor minerals	0	2	14	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	73	0	0	0	0	0
8.	Dairy products	0	118	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	0	131	0	0	0	0	0
10.	Other food products	22	694	0	0	0	0	0
11.	Beverages	0	975	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	164	0	0	0	0	0	8
14.	Readymade garments	170	4	23	6320	135	16	1
15.	Leather and related products	0	0	0	0	0	0	0
16.	Metal and Metal Products	2172	8	0	204	0	6	0
17.	Electronic equipment	10	0	1	586	13	13	1
18.	Electrical equipment	1203	4	5	4647	23	18	1
19.	Machinery and equipment n.e.c.	172	8	0	125	0	1	0
20.	Transport equipment	2155	26	7	4965	1	4	0
21.	Petroleum and coal tar products	1494	42	5	14617	24	26	1
22.	Inorganic and Organic Chemicals	6070	28	0	4361	0	0	8
23.	Drugs and medicine	0	9	0	22555	0	0	0
24.	Rubber & plastic products	1506	61	0	20838	0	6	18
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	4849	0	0	0	0	0	0
27.	Paper, Paper products and newsprint	1268	1	25	23540	108	31	3
28.	Publishing & printing	10	0	0	38	2	1	0
29.	Furniture & Fixtures	67	0	1	66	2	3	1
30.	Other Manufacturing	442	34	6	4549	50	7	0
31.	Repair and installation of machinery and equipments	8750	102	0	16074	0	23	0
32.	Construction	19846	23	103	6648	122	107	1
33.	Electricity	21756	1477	140	18623	596	343	21
34.	Gas	0	13	0	12924	2	1	0
35.	Water Supply	2049	248	42	18038	267	159	7
36.	Trade	3401	7301	17	22816	54	36	4
37.	Hotels & Restaurant	17107	16	18	20480	74	65	3
38.	Railway Transport	31	6	0	44	5	1	0
39.	Land transport	11766	6068	14	18945	45	55	3
40.	Air transport	420	1	0	61	1	9	0
41.	Supportive and Auxiliary transport activities	130	89	0	497	0	36	0
42.	Storage and warehousing	13	4	0	0	0	0	0
43.	Communication services	5897	131	68	160512	327	625	9
44.	Financial, Legal, and Insurance services	43155	676	8	29784	256	242	3
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	190	1	2	187	70	23	5
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	20	2	0	1	1	1	0
49.	Business services	24833	1082	136	35916	740	310	25
50.	Real estate services	2094	0	4	7991	0	0	1
51.	Renting of machinery & equipment	632	3	1	736	18	0	0
52.	Community, social, and personal services	14	8	1	36	7	1	0
53.	Other services	139	20	8	300	2	3	1
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		184020	110503	650	494335	2948	2171	125
Taxes on products		7406	-401	22	22407	130	76	7
Imports		57217	6521	231	438116	1010	877	39
Total IC at purchaser's prices		248644	116623	903	954858	4088	3124	171
Gross value added at basic prices		727401	150725	1788	377569	1316	6022	136
Gross output at basic prices (Rs. lakh)		976045	267348	2691	1332427	5404	9146	307

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Communicatio n services	Financial, Legal and Insurance services	Ownership of dwellings	Education	Health	Computer related services	Business services
		43	44	45	46	47	48	49
1.	Apples	0	0	0	0	0	0	2532
2.	Agriculture (other than Apples)	0	0	0	0	0	0	2603
3.	Livestock	0	0	0	0	0	0	133
4.	Forestry and Logging	0	0	0	0	0	0	253
5.	Fishing & Aquaculture	0	0	0	0	0	0	11
6.	Limestone and other minor minerals	0	0	0	0	0	0	365
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	0	0	72
8.	Dairy products	0	0	0	0	0	0	15
9.	Grain mill products, etc. and animal feeds	0	0	0	0	0	0	3424
10.	Other food products	0	6	0	0	0	0	1136
11.	Beverages	0	0	0	0	0	0	6
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	2	47	0	0	315	0	3666
14.	Readymade garments	1803	28	0	81	83	6	483
15.	Leather and related products	0	0	0	0	0	0	14
16.	Metal and Metal Products	28	7	0	226	55	2	3887
17.	Electronic equipment	2442	48	0	55	15	7	68
18.	Electrical equipment	65863	795	0	80	27	11	54055
19.	Machinery and equipment n.e.c.	2314	38	0	10	2	2	102
20.	Transport equipment	93	11	0	82	7	8	59
21.	Petroleum and coal tar products	8218	185	0	104	12	7	557
22.	Inorganic and Organic Chemicals	0	0	0	0	1	0	6210
23.	Drugs and medicine	0	0	0	12232	133975	0	310
24.	Rubber & plastic products	291	72	0	293	9	4	905
25.	Other non-metallic mineral products	0	0	0	0	0	0	0
26.	Wood and wood products except furniture	0	160	0	0	0	0	1989
27.	Paper, Paper products and newsprint	27091	3110	0	6570	169	47	8750
28.	Publishing & printing	73	45	0	5	3	1	4
29.	Furniture & Fixtures	501	12	0	64	18	3	23
30.	Other Manufacturing	4723	782	0	35	9	4	1000
31.	Repair and installation of machinery and equipments	535	759	172	1623	607	1	206
32.	Construction	56632	3374	30639	1661	633	425	1120
33.	Electricity	210044	22915	0	3240	1615	351	20798
34.	Gas	376	0	0	53	29	8	10
35.	Water Supply	2696	4314	0	990	402	96	343
36.	Trade	14948	544	0	560	202	14	7681
37.	Hotels & Restaurant	24343	15538	0	592	150	158	538
38.	Railway Transport	47	58	0	32	0	16	117
39.	Land transport	16636	632	0	544	186	52	9756
40.	Air transport	508	1154	0	799	149	0	61
41.	Supportive and Auxiliary transport activities	221	249	0	103	8	20	147
42.	Storage and warehousing	0	6	0	0	0	0	0
43.	Communication services	327380	8520	0	2330	437	776	6399
44.	Financial, Legal, and Insurance services	88201	16275	6370	8456	7794	2801	4391
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	376	136	0	1564	132	60	145
47.	Health	0	315	0	0	441	0	10
48.	Computer related services	257	46	0	4	46	4	26
49.	Business services	136906	26292	0	24922	3068	6418	145407
50.	Real estate services	6191	6	0	0	0	0	0
51.	Renting of machinery & equipment	2181	0	0	0	0	85	55947
52.	Community, social, and personal services	185	54	0	46	5	1	42
53.	Other services	470	140	0	1233	344	8	2081
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		1002574	106675	37181	68587	150947	11397	347859
Taxes on products		39742	3862	96	4731	13074	735	23763
Imports		272855	16921	466	9801	4135	476	44322
Total IC at purchaser's prices		1315171	127458	37743	83120	168157	12607	415943
Gross value added at basic prices		262033	378045	1071237	233649	34517	14322	526930
Gross output at basic prices (Rs. lakh)		1577203	505503	1108980	316769	202674	26930	942874

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Real estate services	Renting of machinery & equipment	Community, social and personal services	Other services	Public administration and defence	IUSE	PFCE
		50	51	52	53	54		
1.	Apples	0	0	0	5	0	38797	41079
2.	Agriculture (other than Apples)	0	0	0	4	43257	217116	450236
3.	Livestock	0	0	0	3	36766	160838	352088
4.	Forestry and Logging	0	0	0	5	4845	71503	153906
5.	Fishing & Aquaculture	0	0	0	0	0	1811	13833
6.	Limestone and other minor minerals	0	0	0	1	0	56860	470
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	0	791	2582	14086
8.	Dairy products	0	0	0	0	108	4817	10766
9.	Grain mill products, etc. and animal feeds	0	0	0	6	5506	43628	36671
10.	Other food products	0	0	0	8	4817	122394	263772
11.	Beverages	0	0	0	0	4610	12467	22661
12.	Tobacco products	0	0	0	0	0	2	409
13.	Textiles & cotton ginning	0	24	420	7	0	41056	24604
14.	Readymade garments	15	82	2052	44	342	15326	8950
15.	Leather and related products	0	0	0	0	307	5992	35915
16.	Metal and Metal Products	1	249	1791	72	172	625385	7203
17.	Electronic equipment	2	62	156	33	50	78207	19235
18.	Electrical equipment	40	284	8659	668	943	325326	55849
19.	Machinery and equipment n.e.c.	4	280	405	11	39	96536	0
20.	Transport equipment	32	1062	3046	76	2171	38067	35813
21.	Petroleum and coal tar products	70	199	646	51	3	33781	16646
22.	Inorganic and Organic Chemicals	0	0	0	16	15219	544687	181523
23.	Drugs and medicine	0	0	0	0	3415	347186	453854
24.	Rubber & plastic products	31	337	30883	148	38	166265	259205
25.	Other non-metallic mineral products	0	0	0	0	0	14	0
26.	Wood and wood products except furniture	0	0	0	5	0	26058	0
27.	Paper, Paper products and newsprint	135	348	15272	218	113	236401	40300
28.	Publishing & printing	0	8	50	4	5	415	409
29.	Furniture & Fixtures	18	65	206	13	287	4610	718
30.	Other Manufacturing	42	194	5741	95	45	120945	21486
31.	Repair and installation of machinery and equipments	10	1706	2624	174	0	80196	0
32.	Construction	395	292	62961	259	12920	218734	92177
33.	Electricity	662	1777	65938	3003	7490	610691	46204
34.	Gas	0	0	0	64	0	17873	18661
35.	Water Supply	194	700	18283	768	9152	111456	6215
36.	Trade	98	478	5490	153	12618	361099	232526
37.	Hotels & Restaurant	124	207	8115	232	3698	118821	148527
38.	Railway Transport	4	0	4	41	88	971	1432
39.	Land transport	127	809	6724	675	12116	469854	545084
40.	Air transport	3	0	19	31	1009	5335	34
41.	Supportive and Auxiliary transport activities	7	35	111	4	104	4164	1943
42.	Storage and warehousing	12	12	48	0	-1	307	0
43.	Communication services	260	1603	445	2039	0	1046759	517531
44.	Financial, Legal, and Insurance services	501	2905	12376	9343	0	316267	0
45.	Ownership of dwellings	0	0	0	0	0	0	313970
46.	Education	19	315	1137	121	0	5727	4335
47.	Health	0	0	0	11	0	819	38042
48.	Computer related services	35	1	139	35	26	1084	0
49.	Business services	363	5750	141913	19203	17361	675634	223546
50.	Real estate services	101	353	126	0	0	36060	1465
51.	Renting of machinery & equipment	520	203	10910	775	0	83960	0
52.	Community, social, and personal services	4	12	360	62	0	1163	766405
53.	Other services	3	163	2959	1224	2	12205	76281
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		3831	20516	410010	39713	200432	7618253	5556067
Taxes on products		102	1056	19946	2537	5144	511000	
Imports		2273	8833	61944	3182	29460	2722873	
Total IC at purchaser's prices		6206	30405	491900	45432	235036	10852126	
Gross value added at basic prices		31312	53556	1134323	89551	683289	12659912	
Gross output at basic prices (Rs. lakh)		37518	83961	1626223	134983	918325	23512038	



**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		GFCF	GCF (GFCF and CIS)	Valueables	EXP	TFUSE	Total Use
1.	Apples	0	0	0	148340	189419	228215
2.	Agriculture (other than Apples)	0	1	0	267825	718062	935178
3.	Livestock	0	4314	0	2091	358492	519331
4.	Forestry and Logging	0	0	0	341580	495486	566989
5.	Fishing & Aquaculture	0	0	0	2157	15990	17801
6.	Limestone and other minor minerals	0	343	0	3811	4624	61484
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	0	2927	17013	19595
8.	Dairy products	0	421	0	112	11298	16116
9.	Grain mill products, etc. and animal feeds	0	4841	0	9064	50577	94204
10.	Other food products	0	4757	0	49172	317702	440096
11.	Beverages	0	1689	0	2748	27098	39565
12.	Tobacco products	0	447	0	1739	2595	2596
13.	Textiles & cotton ginning	0	3382	0	62173	90160	131215
14.	Readymade garments	0	2019	0	3584	14553	29878
15.	Leather and related products	0	409	0	15789	52113	58104
16.	Metal and Metal Products	0	317588	0	20472	345264	970648
17.	Electronic equipment	0	196464	0	1760	217459	295666
18.	Electrical equipment	0	773661	0	20087	849598	1174924
19.	Machinery and equipment n.e.c.	0	317676	0	42646	360322	456858
20.	Transport equipment	0	56412	0	12957	105182	143249
21.	Petroleum and coal tar products	0	0	0	57	16704	50485
22.	Inorganic and Organic Chemicals	0	241388	0	231710	654621	1199308
23.	Drugs and medicine	0	163662	0	383161	1000677	1347864
24.	Rubber & plastic products	0	28929	0	12528	300661	466926
25.	Other non-metallic mineral products	0	0	0	0	0	14
26.	Wood and wood products except furniture	0	17447	0	1631	19078	45137
27.	Paper, Paper products and newsprint	0	0	0	7329	47629	284029
28.	Publishing & printing	0	0	0	61	470	885
29.	Furniture & Fixtures	0	1849	0	1679	4245	8856
30.	Other Manufacturing	0	29540	22760	45677	119463	240408
31.	Repair and installation of machinery and equipments	0	0	0	0	0	80196
32.	Construction	0	2264862	0	0	2357039	2575773
33.	Electricity	0	121776	0	2258	170238	780929
34.	Gas	0	0	0	0	18661	36535
35.	Water Supply	0	0	0	0	6215	117671
36.	Trade	0	187047	2734	192639	614945	976044
37.	Hotels & Restaurant	0	0	0	0	148527	267348
38.	Railway Transport	0	141	2	146	1721	2691
39.	Land transport	0	155284	2270	159927	862565	1332419
40.	Air transport	0	17	0	18	69	5404
41.	Supportive and Auxiliary transport activities	0	1471	21	1545	4981	9145
42.	Storage and warehousing	0	0	0	0	0	307
43.	Communication services	0	0	0	12913	530444	1577203
44.	Financial, Legal, and Insurance services	178930	0	0	10306	189236	505503
45.	Ownership of dwellings	795011	0	0	0	1108981	1108981
46.	Education	306707	0	0	0	311043	316769
47.	Health	163812	0	0	0	201855	202674
48.	Computer related services	0	25845	0	0	25845	26929
49.	Business services	0	19118	0	24576	267240	942874
50.	Real estate services	0	0	0	0	1465	37525
51.	Renting of machinery & equipment	0	0	0	0	0	83960
52.	Community, social, and personal services	828808	0	0	29847	1625060	1626223
53.	Other services	44035	0	0	2462	122778	134983
54.	Public administration and defence	918325	0	0	0	918325	918325
Total intermediate consumption at basic prices		3235628	4942799	27787	2131505	15893785	23512038
Taxes on products							
Imports							
Total IC at purchaser's prices							
Gross value added at basic prices							
Gross output at basic prices (Rs. lakh)							

**Table IV. 3: Industry X Industry Input-Output Table, 2017-18 (Rs lakh)**

		Apples	Agriculture (other than Apples)	Livestock	Forestry and Logging	Fishing & Aquaculture	Limestone and other minor minerals	Processed meat, fish, fruit, vegetables, oils and fats
		1	2	3	4	5	6	7
1.	Apples	2632	7617	0	0	0	0	9541
2.	Agriculture (other than Apples)	0	23453	80676	0	4	0	0
3.	Livestock	284	2705	10774	0	479	0	9381
4.	Forestry and Logging	0	0	684	658	0	0	22842
5.	Fishing & Aquaculture	0	0	0	0	238	0	169
6.	Limestone and other minor minerals	0	0	0	0	166	0	3
7.	Processed meat, fish, fruit, vegetables, oils and fats	138	1315	3250	0	1	0	3995
8.	Dairy products	0	0	62	0	0	0	93
9.	Grain mill products, etc. and animal feeds	0	2	5076	208	2	168	1699
10.	Other food products	3	27	10768	21	2	7	10928
11.	Beverages	4	35	2	0	0	0	5
12.	Tobacco products	0	0	133	0	0	0	136
13.	Textiles & cotton ginning	16	148	6	214	3	102	10
14.	Readymade garments	5	43	0	2434	0	1186	12
15.	Leather and related products	0	0	0	14	0	27	0
16.	Metal and Metal Products	4	38	3599	3262	4	447	610
17.	Electronic equipment	1	11	1630	689	0	32	276
18.	Electrical equipment	81	770	2822	3144	2	1434	481
19.	Machinery and equipment n.e.c.	35	337	1205	740	1	572	202
20.	Transport equipment	47	451	36	896	3	479	4
21.	Petroleum and coal tar products	85	813	0	323	1	121	33
22.	Inorganic and Organic Chemicals	1999	19022	2402	148	7	42	1533
23.	Drugs and medicine	145	1379	17021	426	20	27	3247
24.	Rubber & plastic products	44	415	769	897	0	1168	157
25.	Other non-metallic mineral products	3	30	27	1516	3	212	6
26.	Wood and wood products except furniture	1	11	3513	1344	3	359	3
27.	Paper, Paper products and newsprint	11	103	0	1158	0	777	5
28.	Publishing & printing	0	2	0	62	0	20	0
29.	Furniture & Fixtures	0	2	7	43	0	16	0
30.	Other Manufacturing	1	8	1949	753	0	60	330
31.	Repair and installation of machinery and equipments	8	73	0	6677	0	5269	57
32.	Construction	1038	9882	182	3007	0	23	0
33.	Electricity	2675	25466	0	6135	0	78	1538
34.	Gas	0	0	0	8	0	0	1
35.	Water Supply	6	61	0	1727	1	175	0
36.	Trade	1462	10069	16135	2424	127	1454	9308
37.	Hotels & Restaurant	4	38	0	2142	0	0	0
38.	Railway Transport	1	8	12	2	0	5	20
39.	Land transport	1211	8334	108751	18230	106	1413	7825
40.	Air transport	0	1	1	0	0	0	1
41.	Supportive and Auxiliary transport activities	11	79	127	16	1	6	107
42.	Storage and warehousing	0	0	0	1	0	0	0
43.	Communication services	8	74	0	3206	0	3	31
44.	Financial, Legal, and Insurance services	2307	21963	771	1036	2	550	2
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	1	8	0	1001	0	26	0
47.	Health	0	0	0	2	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	0	4	0	406	0	327	3
50.	Real estate services	0	4	0	0	0	0	0
51.	Renting of machinery & equipment	0	1	0	0	0	29	163
52.	Community, social, and personal services	0	0	0	37	0	7	0
53.	Other services	6	54	0	130	0	35	12
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		14279	134856	272390	65137	1176	16656	84769
Taxes on products		579	4226	4885	3576	0	1324	2877
Imports		3924	39691	76166	35658	427	6757	22520
Total IC at purchaser's prices		18782	178774	353441	104370	1603	24737	110167
Gross value added at basic prices		209433	756404	165890	462619	16197	36746	58568
Gross output at basic prices (s. lakh)		228215	935178	519331	566989	17800	61484	168734



**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Dairy products	Grain mill products, etc. and animal feeds	Other food products	Beverages	Tobacco products	Textiles & cotton ginning	Readymade garments
		8	9	10	11	12	13	14
1.	Apples	0	17009	1795	203	0	0	0
2.	Agriculture (other than Apples)	165	17510	1180	0	0	43	0
3.	Livestock	1302	328	4401	0	0	9415	0
4.	Forestry and Logging	0	0	29	0	1139	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	574	390	75	7	42	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	260	1643	8909	91	163	433	90
8.	Dairy products	292	28	3952	1	0	0	0
9.	Grain mill products, etc. and animal feeds	542	22791	10140	744	2	8	482
10.	Other food products	547	3990	28243	1034	14	9	25
11.	Beverages	3	3	1194	1526	0	12	2
12.	Tobacco products	7	48	341	3	0	0	0
13.	Textiles & cotton ginning	0	4	30	84	0	24053	3796
14.	Readymade garments	0	371	33	3	0	860	3736
15.	Leather and related products	0	3	0	14	0	110	24
16.	Metal and Metal Products	84	501	1543	316	28	405	325
17.	Electronic equipment	38	211	698	134	6	143	10
18.	Electrical equipment	65	381	1222	308	16	629	163
19.	Machinery and equipment n.e.c.	28	156	510	108	5	151	18
20.	Transport equipment	1	9	10	37	1	205	42
21.	Petroleum and coal tar products	7	74	76	7	1	47	24
22.	Inorganic and Organic Chemicals	35	127	4640	186	26	7262	1468
23.	Drugs and medicine	167	1493	9161	211	10	549	303
24.	Rubber & plastic products	18	202	412	697	5	3881	762
25.	Other non-metallic mineral products	1	9	17	5	11	13	80
26.	Wood and wood products except furniture	0	93	8	40	657	217	845
27.	Paper, Paper products and newsprint	0	35	15	21	1	1149	436
28.	Publishing & printing	0	2	0	3	0	111	28
29.	Furniture & Fixtures	0	2	0	0	1	16	16
30.	Other Manufacturing	45	261	836	170	8	215	74
31.	Repair and installation of machinery and equipments	0	1919	148	1	2	68	15152
32.	Construction	0	36	17	0	0	3	49
33.	Electricity	572	8459	3750	593	270	8819	4811
34.	Gas	83	0	782	0	0	33	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	329	12975	8506	688	211	4296	727
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	0	17	11	1	0	4	56
39.	Land transport	273	11264	7099	572	239	3585	1167
40.	Air transport	0	1	1	0	0	0	0
41.	Supportive and Auxiliary transport activities	4	107	121	5	2	35	52
42.	Storage and warehousing	0	0	5	0	0	0	0
43.	Communication services	0	135	31	1	2	7	724
44.	Financial, Legal, and Insurance services	0	190	92	0	0	4	463
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	1	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	0	113	9	0	0	4	938
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	4	178	333	0	1	20	7278
52.	Community, social, and personal services	0	0	9	0	0	1	41
53.	Other services	0	1586	11	1	0	11	867
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		4872	104837	100712	7885	2830	66867	45073
Taxes on products		120	1662	6234	996	162	3560	2610
Imports		3959	16362	77064	6228	764	24053	4371
Total IC at purchaser's prices		8950	122860	184010	15109	3755	94480	52053
Gross value added at basic prices		6937	21681	100351	12249	2046	34716	117378
Gross output at basic prices (s. lakh)		15887	144542	284361	27358	5801	129196	169432

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Leather and related products	Metal and Metal Products	Electronic equipment	Electrical equipment	Machinery and equipment n.e.c.	Transport equipment	Petroleum and coal tar products
		15	16	17	18	19	20	21
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	111	0	0	0	154	95	0
3.	Livestock	4575	0	0	0	0	0	0
4.	Forestry and Logging	0	3	0	0	0	0	0
5.	Fishing & Aquaculture	0	492	0	200	0	0	0
6.	Limestone and other minor minerals	445	822	0	1767	1285	1364	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	188	2111	45	939	310	162	75
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	1	48	1	4	0	1	0
10.	Other food products	4	45	1	20	6	3	2
11.	Beverages	5	57	1	25	8	4	2
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	3781	270	13	2420	88	238	8
14.	Readymade garments	880	256	5	120	5	18	1
15.	Leather and related products	4078	33	11	1105	994	113	0
16.	Metal and Metal Products	346	56422	1910	63425	11828	10298	12
17.	Electronic equipment	117	524	5805	15997	2325	689	6
18.	Electrical equipment	459	22508	42920	173525	32147	19357	17
19.	Machinery and equipment n.e.c.	122	1728	1845	26070	6770	8833	4
20.	Transport equipment	111	3862	562	14769	5909	19015	0
21.	Petroleum and coal tar products	9	79	4	112	20	29	1183
22.	Inorganic and Organic Chemicals	2929	30641	776	15380	4704	2544	1106
23.	Drugs and medicine	277	2462	418	3883	708	383	188
24.	Rubber & plastic products	2189	4941	803	33972	4531	5323	26
25.	Other non-metallic mineral products	36	43958	364	41414	8003	7217	2
26.	Wood and wood products except furniture	180	81	269	1991	251	1273	0
27.	Paper, Paper products and newsprint	286	2856	104	8149	773	3266	4
28.	Publishing & printing	23	68	3	233	28	57	0
29.	Furniture & Fixtures	2	86	18	102	25	250	0
30.	Other Manufacturing	169	1982	769	6670	978	638	7
31.	Repair and installation of machinery and equipments	43	1191	1438	9552	1731	328	0
32.	Construction	0	1	0	0	1	0	0
33.	Electricity	819	20370	821	19947	3338	4166	96
34.	Gas	1	114	0	615	550	488	0
35.	Water Supply	0	0	0	41929	0	0	0
36.	Trade	2569	19984	3409	41212	9500	9963	1526
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	3	35	19	43	7	8	1
39.	Land transport	2137	17004	2826	36111	7895	8320	1267
40.	Air transport	0	2	0	4	1	1	0
41.	Supportive and Auxiliary transport activities	20	170	27	327	75	79	12
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	2	83	17	347637	4	7	0
44.	Financial, Legal, and Insurance services	1	49	1	4	0	1	0
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	1	0	0	0
49.	Business services	3	73	1	8	0	2	0
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	32	695	42	258	3	64	0
52.	Community, social, and personal services	0	7	0	0	0	0	0
53.	Other services	1	254	3	0	1	6	0
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		26953	236364	65251	909940	104957	104601	5545
Taxes on products		1505	32653	14642	80662	12988	10444	586
Imports		10861	100322	26753	282456	56713	68715	36190
Total IC at purchaser's prices		39318	369338	106646	1273058	174658	183760	42322
Gross value added at basic prices		23973	135932	36955	386261	94734	60405	4061
Gross output at basic prices (s. lakh)		63292	505270	143601	1659319	269391	244164	46383

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Inorganic and Organic Chemicals	Drugs and medicine	Rubber & plastic products	Other non- metallic mineral products	Wood and wood products except furniture	Paper, Paper products and newsprint	Publishing & printing
		22	23	24	25	26	27	28
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	2259	137	0	0	0	0	0
3.	Livestock	0	7	0	0	16	0	0
4.	Forestry and Logging	903	291	8	8	528	2938	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	3460	66	3	15194	213	2007	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	12688	-105	7735	174	717	1177	14
8.	Dairy products	77	6	0	0	0	6	0
9.	Grain mill products, etc. and animal feeds	1603	199	2	8	54	2638	1
10.	Other food products	14221	1787	160	4	21	999	0
11.	Beverages	1775	158	207	5	19	24	0
12.	Tobacco products	165	11	0	0	0	12	0
13.	Textiles & cotton ginning	1150	29	1411	20	104	184	26
14.	Readymade garments	78	-3	90	54	239	24	8
15.	Leather and related products	51	4	92	5	1	89	14
16.	Metal and Metal Products	4059	-2398	2298	8112	446	4298	102
17.	Electronic equipment	1774	-1109	429	495	136	320	3
18.	Electrical equipment	4197	-1897	2627	3530	361	2464	117
19.	Machinery and equipment n.e.c.	1358	-806	413	507	103	357	14
20.	Transport equipment	155	-4	317	479	15	455	40
21.	Petroleum and coal tar products	234	35	192	891	20	122	1
22.	Inorganic and Organic Chemicals	122343	13459	112097	2643	10438	12982	223
23.	Drugs and medicine	15897	133118	7984	599	1142	1524	21
24.	Rubber & plastic products	5713	-464	6757	831	336	4575	636
25.	Other non-metallic mineral products	259	11	1183	5587	129	2825	63
26.	Wood and wood products except furniture	144	12	262	520	5942	2780	42
27.	Paper, Paper products and newsprint	1151	12	619	348	23970	118246	2014
28.	Publishing & printing	16	1	21	9	237	1244	25
29.	Furniture & Fixtures	1	0	3	12	14	14	0
30.	Other Manufacturing	2188	-1322	609	766	177	548	15
31.	Repair and installation of machinery and equipments	0	0	28	260	1167	71	36
32.	Construction	0	0	0	13	4	0	0
33.	Electricity	8628	3151	18663	36860	2321	8345	84
34.	Gas	0	7	10	0	0	42	0
35.	Water Supply	0	0	0	0	0	0	0
36.	Trade	21667	-1258	15122	10369	3433	11614	220
37.	Hotels & Restaurant	0	0	0	0	0	0	0
38.	Railway Transport	16	-1	12	10	39	11	1
39.	Land transport	17988	-1045	12555	8898	3299	9670	193
40.	Air transport	2	0	1	1	0	1	0
41.	Supportive and Auxiliary transport activities	170	-10	119	81	31	95	4
42.	Storage and warehousing	0	0	0	0	0	0	0
43.	Communication services	0	0	3	5	136	12	7
44.	Financial, Legal, and Insurance services	0	0	1	10	35	4	2
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	0	0	0	0
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	0	0	0	0	0	0	0
49.	Business services	0	0	2	16	71	4	2
50.	Real estate services	0	0	0	0	0	0	0
51.	Renting of machinery & equipment	0	0	13	16	176	63	40
52.	Community, social, and personal services	0	0	0	4	0	0	0
53.	Other services	0	0	5	3	371	13	7
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		246389	142080	192052	97347	56462	192796	3979
Taxes on products		26828	12039	21278	4571	5742	16757	370
Imports		147971	-33166	81036	83400	13268	35040	705
Total IC at purchaser's prices		421189	120953	294366	185318	75472	244593	5054
Gross value added at basic prices		782208	1215557	110218	139461	27984	75680	1042
Gross output at basic prices (s. lakh)		1203397	1336510	404585	324779	103457	320273	6096

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Furniture & Fixtures	Other Manufacturing	Repair and installation of machinery and equipments	Construction	Electricity	Gas	Water Supply
		29	30	31	32	33	34	35
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	21720	191	0	0
3.	Livestock	1	0	0	0	0	0	0
4.	Forestry and Logging	338	0	0	36290	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	16	1691	0	25109	241	0	1907
7.	Processed meat, fish, fruit, vegetables, oils and fats	1	126	4	6380	0	0	57
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	3	9	3254	588	19	71	176
10.	Other food products	0	3	140	283	2	6	14
11.	Beverages	0	3	0	171	0	0	2
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	16	32	104	1172	3	30	53
14.	Readymade garments	16	58	20723	4673	153	858	1134
15.	Leather and related products	0	9	29	538	0	2	60
16.	Metal and Metal Products	88	3954	1903	111833	262	3317	324
17.	Electronic equipment	2	245	4009	2278	6	83	8
18.	Electrical equipment	33	1930	48235	66809	133	1990	469
19.	Machinery and equipment n.e.c.	2	447	4968	6059	11	151	55
20.	Transport equipment	13	1113	16	9458	17	221	157
21.	Petroleum and coal tar products	0	15	400	1808	72	128	422
22.	Inorganic and Organic Chemicals	18	1882	5	93050	2	6	901
23.	Drugs and medicine	1	293	37	7036	9	25	109
24.	Rubber & plastic products	7	731	117	31444	19	238	2642
25.	Other non-metallic mineral products	69	2720	337	87147	197	2578	144
26.	Wood and wood products except furniture	360	235	4829	8422	29	115	432
27.	Paper, Paper products and newsprint	5	267	408	6965	181	878	228
28.	Publishing & printing	0	7	53	237	3	15	17
29.	Furniture & Fixtures	7	6	93	390	1	10	7
30.	Other Manufacturing	2	375	355	3840	12	109	66
31.	Repair and installation of machinery and equipments	79	279	107396	20501	604	2309	5531
32.	Construction	0	1	4	0	590	1560	2579
33.	Electricity	52	965	14928	36074	96	2061	2989
34.	Gas	0	8	0	1662	0	0	0
35.	Water Supply	0	0	0	6393	390	1198	721
36.	Trade	101	2290	3617	110887	300	1185	1718
37.	Hotels & Restaurant	0	0	0	22054	148	513	908
38.	Railway Transport	1	16	49	136	7	18	9
39.	Land transport	127	1983	6085	83052	249	984	3784
40.	Air transport	0	0	0	682	0	1	373
41.	Supportive and Auxiliary transport activities	1	20	28	542	2	9	14
42.	Storage and warehousing	0	0	0	204	0	0	0
43.	Communication services	9	19	4358	167710	581	2073	6598
44.	Financial, Legal, and Insurance services	2	24	2337	41105	405	520	11093
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	0	0	0	162	4	23	3
47.	Health	0	0	0	39	0	0	0
48.	Computer related services	0	0	0	434	1	3	0
49.	Business services	5	17	6341	1144	37	138	343
50.	Real estate services	0	0	0	19016	0	0	0
51.	Renting of machinery & equipment	40	130	57869	955	0	0	17
52.	Community, social, and personal services	0	2	0	189	3	44	11
53.	Other services	15	1	997	322	2	124	4
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		1437	21906	294030	1046963	4984	23595	46078
Taxes on products		127	2556	20623	87542	281	2240	2067
Imports		366	18119	28965	491378	3130	8670	21242
Total IC at purchaser's prices		1929	42581	343618	1625883	8396	34505	69388
Gross value added at basic prices		940	11311	435900	949890	772533	2030	48284
Gross output at basic prices (s. lakh)		2869	53892	779518	2575773	780929	36534	117672

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Trade	Hotels & Restaurant	Railway Transport	Land transport	Air transport	Supportive and Auxiliary transport activities	Storage and warehousing
		36	37	38	39	40	41	42
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	9851	0	16310	0	0	0
3.	Livestock	0	80407	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	711	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	14	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	390	159	0	257	0	0	0
8.	Dairy products	0	87	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	613	147	3	817	17	7	1
10.	Other food products	153	591	0	296	1	1	0
11.	Beverages	10	621	0	7	0	0	0
12.	Tobacco products	0	3	0	0	0	0	0
13.	Textiles & cotton ginning	245	2	2	703	9	1	7
14.	Readymade garments	4075	161	41	11129	233	59	5
15.	Leather and related products	32	1	0	336	0	0	0
16.	Metal and Metal Products	1468	18	3	2160	23	9	1
17.	Electronic equipment	148	1	1	931	9	4	0
18.	Electrical equipment	2027	19	7	7464	42	29	3
19.	Machinery and equipment n.e.c.	612	8	2	1856	7	3	0
20.	Transport equipment	1932	24	5	4605	2	4	1
21.	Petroleum and coal tar products	1467	37	5	13231	22	24	1
22.	Inorganic and Organic Chemicals	5619	10	0	7179	2	1	8
23.	Drugs and medicine	567	85	1	21605	6	3	1
24.	Rubber & plastic products	1392	44	0	15179	3	5	13
25.	Other non-metallic mineral products	848	5	0	166	2	3	0
26.	Wood and wood products except furniture	6262	39	5	2195	26	12	2
27.	Paper, Paper products and newsprint	1509	5	25	23768	108	32	4
28.	Publishing & printing	38	1	1	333	3	1	0
29.	Furniture & Fixtures	41	1	0	36	1	1	0
30.	Other Manufacturing	180	4	1	995	9	2	0
31.	Repair and installation of machinery and equipments	19301	773	98	26045	530	223	18
32.	Construction	21477	23	103	6648	122	107	1
33.	Electricity	23544	1457	140	18623	596	343	21
34.	Gas	0	9	0	12924	2	1	0
35.	Water Supply	2218	248	42	18038	267	159	7
36.	Trade	13150	7357	17	38890	54	59	4
37.	Hotels & Restaurant	18406	16	18	20362	74	64	3
38.	Railway Transport	34	6	0	44	5	1	0
39.	Land transport	12733	6029	14	18945	45	55	3
40.	Air transport	454	1	0	61	1	9	0
41.	Supportive and Auxiliary transport activities	141	88	0	497	0	36	0
42.	Storage and warehousing	14	4	0	0	0	0	0
43.	Communication services	6382	131	68	160512	327	625	9
44.	Financial, Legal, and Insurance services	47133	693	10	30362	268	247	4
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	206	1	2	187	70	23	5
47.	Health	0	0	0	0	0	0	0
48.	Computer related services	22	2	0	1	1	1	0
49.	Business services	1192	48	6	1592	33	14	1
50.	Real estate services	2266	0	4	7991	0	0	1
51.	Renting of machinery & equipment	684	1	1	736	18	0	0
52.	Community, social, and personal services	15	8	1	36	7	1	0
53.	Other services	141	18	7	282	2	3	1
54.	Public administration and defence	0	0	0	0	0	0	0
<b>Total intermediate consumption at basic prices</b>		<b>199140</b>	<b>109956</b>	<b>650</b>	<b>494335</b>	<b>2948</b>	<b>2171</b>	<b>125</b>
<b>Taxes on products</b>		<b>8015</b>	<b>-435</b>	<b>22</b>	<b>22407</b>	<b>130</b>	<b>76</b>	<b>7</b>
<b>Imports</b>		<b>61918</b>	<b>6106</b>	<b>231</b>	<b>438116</b>	<b>1010</b>	<b>877</b>	<b>39</b>
<b>Total IC at purchaser's prices</b>		<b>269073</b>	<b>115628</b>	<b>903</b>	<b>954858</b>	<b>4088</b>	<b>3124</b>	<b>171</b>
<b>Gross value added at basic prices</b>		<b>787168</b>	<b>150182</b>	<b>1788</b>	<b>377569</b>	<b>1316</b>	<b>6022</b>	<b>136</b>
<b>Gross output at basic prices (s. lakh)</b>		<b>1056241</b>	<b>265810</b>	<b>2691</b>	<b>1332427</b>	<b>5404</b>	<b>9146</b>	<b>307</b>

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Communication services	Financial, Legal and Insurance services	Ownership of dwellings	Education	Health	Computer related services	Business services
		43	44	45	46	47	48	49
1.	Apples	0	0	0	0	0	0	0
2.	Agriculture (other than Apples)	0	0	0	0	0	0	0
3.	Livestock	0	0	0	0	0	0	0
4.	Forestry and Logging	0	0	0	0	0	0	0
5.	Fishing & Aquaculture	0	0	0	0	0	0	0
6.	Limestone and other minor minerals	0	0	0	0	0	0	0
7.	Processed meat, fish, fruit, vegetables, oils and fats	6	3	0	1	0	0	0
8.	Dairy products	0	0	0	0	0	0	0
9.	Grain mill products, etc. and animal feeds	3115	617	0	567	70	146	71
10.	Other food products	272	121	0	103	831	7	3
11.	Beverages	0	0	0	0	0	0	0
12.	Tobacco products	0	0	0	0	0	0	0
13.	Textiles & cotton ginning	221	64	0	32	336	5	4
14.	Readymade garments	21523	3952	0	3688	532	936	467
15.	Leather and related products	32	7	0	10	1	1	1
16.	Metal and Metal Products	3215	559	0	409	63	79	47
17.	Electronic equipment	5149	158	0	21	6	2	5
18.	Electrical equipment	55219	936	0	252	55	34	36
19.	Machinery and equipment n.e.c.	6278	150	0	31	5	3	6
20.	Transport equipment	660	25	0	94	11	8	8
21.	Petroleum and coal tar products	7437	172	0	94	11	7	111
22.	Inorganic and Organic Chemicals	225	27	0	1503	16383	0	2
23.	Drugs and medicine	1112	88	0	10676	116719	1	12
24.	Rubber & plastic products	597	112	0	226	19	5	12
25.	Other non-metallic mineral products	342	68	0	133	25	16	10
26.	Wood and wood products except furniture	4936	1090	0	894	115	218	113
27.	Paper, Paper products and newsprint	27025	3216	0	6548	185	57	172
28.	Publishing & printing	367	75	0	78	6	3	4
29.	Furniture & Fixtures	172	20	0	27	5	5	4
30.	Other Manufacturing	1048	186	0	75	11	17	11
31.	Repair and installation of machinery and equipments	103292	19408	0	17866	2212	4582	2231
32.	Construction	56632	3475	30639	1661	633	425	969
33.	Electricity	210044	23602	0	3240	1615	351	462
34.	Gas	376	0	0	53	29	8	3
35.	Water Supply	2696	4443	0	990	402	96	153
36.	Trade	15484	1342	172	2183	809	16	316
37.	Hotels & Restaurant	24203	15912	0	588	149	157	71
38.	Railway Transport	47	60	0	32	0	16	11
39.	Land transport	16636	651	0	544	186	52	130
40.	Air transport	508	1189	0	799	149	0	26
41.	Supportive and Auxiliary transport activities	221	256	0	103	8	20	40
42.	Storage and warehousing	0	7	0	0	0	0	0
43.	Communication services	327380	8775	0	2330	437	776	1226
44.	Financial, Legal, and Insurance services	90403	17199	6370	8857	7844	2904	3796
45.	Ownership of dwellings	0	0	0	0	0	0	0
46.	Education	376	140	0	1564	132	60	141
47.	Health	0	325	0	0	441	0	0
48.	Computer related services	257	47	0	4	46	4	25
49.	Business services	6070	1201	0	1105	136	285	138
50.	Real estate services	6191	7	0	0	0	0	0
51.	Renting of machinery & equipment	2181	0	0	0	0	85	0
52.	Community, social, and personal services	185	56	0	46	5	1	7
53.	Other services	442	135	0	1159	324	8	34
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		1002574	109876	37181	68587	150947	11397	10880
Taxes on products		39742	3977	96	4731	13074	735	541
Imports		272855	17429	466	9801	4135	476	3986
Total IC at purchaser's prices		1315171	131282	37743	83120	168157	12607	15407
Gross value added at basic prices		262033	389386	1071237	233649	34517	14322	26399
Gross output at basic prices (s. lakh)		1577203	520667	1108980	316769	202674	26930	41806



**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Real estate services	Renting of machinery & equipment	Community, social and personal services	Other services	Public administration and defence	I/USE	P/CE
		50	51	52	53	54		
1.	Apples	0	0	0	0	0	38797	41079
2.	Agriculture (other than Apples)	0	0	0	0	43257	217116	450236
3.	Livestock	0	0	0	0	36766	160838	352088
4.	Forestry and Logging	0	0	0	0	4845	71503	153906
5.	Fishing & Aquaculture	0	0	0	0	0	1811	13833
6.	Limestone and other minor minerals	0	0	0	0	0	56860	470
7.	Processed meat, fish, fruit, vegetables, oils and fats	0	0	5	1	2555	56465	72100
8.	Dairy products	0	0	0	0	113	4718	10511
9.	Grain mill products, etc. and animal feeds	8	131	3230	405	6116	66630	59516
10.	Other food products	1	7	185	19	4496	80426	166795
11.	Beverages	0	0	0	0	2989	8880	14880
12.	Tobacco products	0	0	0	0	35	893	2330
13.	Textiles & cotton ginning	2	34	940	19	136	42378	26191
14.	Readymade garments	67	911	22511	2619	2843	113827	41773
15.	Leather and related products	1	7	517	6	296	8669	38360
16.	Metal and Metal Products	17	241	4614	258	297	307486	16849
17.	Electronic equipment	9	54	1289	19	88	45920	8623
18.	Electrical equipment	50	633	11775	162	1149	513341	92107
19.	Machinery and equipment n.e.c.	13	289	2176	30	445	74991	15313
20.	Transport equipment	29	884	3677	69	1699	72634	37714
21.	Petroleum and coal tar products	63	180	584	42	12	30887	15170
22.	Inorganic and Organic Chemicals	3	16	845	6	13321	512175	218767
23.	Drugs and medicine	10	35	662	12	4724	366590	449556
24.	Rubber & plastic products	25	261	22410	116	335	155550	191701
25.	Other non-metallic mineral products	1	96	937	56	115	209001	3153
26.	Wood and wood products except furniture	25	248	6314	615	760	59137	19758
27.	Paper, Paper products and newsprint	135	366	16006	235	193	254027	47061
28.	Publishing & printing	2	13	331	12	11	3802	1639
29.	Furniture & Fixtures	3	15	130	14	59	1677	301
30.	Other Manufacturing	7	49	1553	60	55	27930	6749
31.	Repair and installation of machinery and equipments	262	4137	102196	12770	12472	510334	168592
32.	Construction	395	292	62961	259	12920	218734	92177
33.	Electricity	662	1777	65938	2845	7490	610691	46204
34.	Gas	0	0	0	64	0	17873	18661
35.	Water Supply	194	700	18283	767	9152	111456	6215
36.	Trade	108	2184	8114	279	12618	441295	232526
37.	Hotels & Restaurant	123	206	8068	231	3677	118138	147673
38.	Railway Transport	4	0	4	40	88	971	1432
39.	Land transport	127	809	6724	603	12116	469854	545084
40.	Air transport	3	0	19	31	1009	5335	34
41.	Supportive and Auxiliary transport activities	7	35	111	4	104	4164	1943
42.	Storage and warehousing	12	12	48	0	-1	307	0
43.	Communication services	260	1603	445	1990	0	1046759	517531
44.	Financial, Legal, and Insurance services	507	2997	14659	9629	279	327133	3595
45.	Ownership of dwellings	0	0	0	0	0	0	313970
46.	Education	19	315	1137	121	0	5727	4335
47.	Health	0	0	0	11	0	819	38042
48.	Computer related services	35	1	139	35	26	1084	0
49.	Business services	16	255	6292	789	770	29957	9912
50.	Real estate services	101	353	126	0	0	36060	1465
51.	Renting of machinery & equipment	520	203	10910	203	0	83960	0
52.	Community, social, and personal services	4	12	360	62	0	1163	766405
53.	Other services	3	154	2783	1140	2	11479	71739
54.	Public administration and defence	0	0	0	0	0	0	0
Total intermediate consumption at basic prices		3831	20516	410010	36649	200432	7618253	5556067
Taxes on products		102	1056	19946	2319	5144	510421	
Imports		2273	8833	61944	2843	29460	2718949	
Total IC at purchaser's prices		6206	30405	491900	41810	235036	10847623	
Gross value added at basic prices		31312	53556	1134323	85135	683289	12450479	
Gross output at basic prices (s. lakh)		37518	83961	1626223	126946	918325	23283823	

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Gfce	GCF (GFCF and CIs)	Valueables	EXP	TFUSE	Total Use
1.	Apples	0	0	0	148340	189419	228215
2.	Agriculture (other than Apples)	0	1	0	267825	718062	935178
3.	Livestock	0	4314	0	2091	358492	519331
4.	Forestry and Logging	0	0	0	341580	495486	566989
5.	Fishing & Aquaculture	0	0	0	2157	15990	17801
6.	Limestone and other minor minerals	0	343	0	3811	4624	61484
7.	Processed meat, fish, fruit, vegetables, oils and fats	6	14970	0	25194	112269	168734
8.	Dairy products	0	392	0	267	11170	15887
9.	Grain mill products, etc. and animal feeds	10	5503	0	12883	77912	144541
10.	Other food products	9	4726	0	32404	203934	284360
11.	Beverages	0	1464	0	2134	18478	27357
12.	Tobacco products	0	481	0	2096	4908	5801
13.	Textiles & cotton ginning	4	5020	0	55602	86817	129196
14.	Readymade garments	25	4893	0	8913	55604	169432
15.	Leather and related products	1	924	0	15337	54623	63292
16.	Metal and Metal Products	34	152374	6081	22446	197784	505271
17.	Electronic equipment	3	78992	2755	7308	97681	143601
18.	Electrical equipment	9	993399	4716	55746	1145978	1659318
19.	Machinery and equipment n.e.c.	0	158062	2010	19015	194400	269391
20.	Transport equipment	0	114538	41	19237	171531	244165
21.	Petroleum and coal tar products	0	140	0	186	15496	46383
22.	Inorganic and Organic Chemicals	0	225388	604	246462	691222	1203397
23.	Drugs and medicine	0	159951	1911	358500	969920	1336510
24.	Rubber & plastic products	0	36898	1300	19135	249035	404585
25.	Other non-metallic mineral products	0	105389	45	7190	115778	324779
26.	Wood and wood products except furniture	17	20478	0	4068	44319	103456
27.	Paper, Paper products and newsprint	0	8217	0	10968	66246	320273
28.	Publishing & printing	1	262	0	392	2294	6097
29.	Furniture & Fixtures	5	555	0	331	1192	2869
30.	Other Manufacturing	1	8802	3295	7115	25962	53892
31.	Repair and installation of machinery and equipments	2496	78724	0	19372	269184	779518
32.	Construction	0	2264862	0	0	2357039	2575773
33.	Electricity	0	121776	0	2258	170238	780929
34.	Gas	0	0	0	0	18661	36535
35.	Water Supply	0	0	0	0	6215	117671
36.	Trade	0	187047	2734	192639	614945	1056240
37.	Hotels & Restaurant	0	0	0	0	147673	265810
38.	Railway Transport	0	141	2	146	1721	2691
39.	Land transport	0	155284	2270	159927	862565	1332419
40.	Air transport	0	17	0	18	69	5404
41.	Supportive and Auxiliary transport activities	0	1471	21	1545	4981	9145
42.	Storage and warehousing	0	0	0	0	0	307
43.	Communication services	0	0	0	12913	530444	1577203
44.	Financial, Legal, and Insurance services	178930	307	0	10701	193534	520667
45.	Ownership of dwellings	795011	0	0	0	1108981	1108981
46.	Education	306707	0	0	0	311043	316769
47.	Health	163812	0	0	0	201855	202674
48.	Computer related services	0	25845	0	0	25845	26929
49.	Business services	0	848	0	1090	11849	41806
50.	Real estate services	0	0	0	0	1465	37525
51.	Renting of machinery & equipment	0	0	0	0	0	83960
52.	Community, social, and personal services	828808	0	0	29847	1625060	1626223
53.	Other services	41413	0	0	2315	115468	126946
54.	Public administration and defence	918325	0	0	0	918325	918325
	Total intermediate consumption at basic prices	3235628	4942799	27787	2131505	15893785	23512038
	Taxes on products						
	Imports						
	Total IC at purchaser's prices						
	Gross value added at basic prices						
	Gross output at basic prices (s. lakh)						



## **V. Leontief Inverse Matrix for Multipliers**

---

Input-Output tables are powerful tools to carry out the economic impact analysis. The primary advantage of input-output tables is the generation of multipliers, like output, income and employment multipliers at industry-level. It reveals the impact of growth or decline in one industry on all the other industries of the economy and on the economy as a whole. Another use of these tables is in projections of sectoral-level output. By multiplying the vector of projected or forecasted value of final demand of each industry by the input coefficient matrix, one arrives at the projected value of output of each industry.

However, the model derived from the IO table suffers from some limitations. One of these is that it assumes that the present coefficients will remain constant under the projected conditions. Therefore, it can be used for short-term projections. In the longer range, coefficients are affected by changes in relative prices, appearance of new industries or elimination of outdated industries, and technological change in the production processes (Berke, Godschalk, and Kaiser, 2006). Due to the possible change in input structure and in prices of inputs over a longer time, the industries are likely to switch to alternative inputs or change the balance between labour and capital inputs. The greater the rate of economic change in the system, less reliable are the fixed input-output coefficients.

Input-output analysis involves the generation of input and output coefficients. These are described as follows:

1. **Input coefficients** - These are calculated by dividing each entry of the IO table by the corresponding column total. Such coefficient for a particular input used in the production process of a sector is interpreted as its shares in total input (equals total output). These inputs include all goods, services and primary inputs used by the sector, hence, they add up to unity. The primary inputs consist of intermediate imports, taxes less subsidies on products, compensation of employees, other net taxes on production, and gross operating surplus.
2. **Output coefficients** - The output coefficients describe the output structure of produced goods and services. The output coefficients are calculated by dividing each entry of the input-output table by the corresponding row total. These are interpreted as the share of each user of a product in its total output. These users include intermediate users and the final users, which further consists of households, non-profit institutions serving households (NPISH), government, gross fixed capital formation, changes in inventories and exports of goods and services.

The input and output coefficients are used to prepare IO models which are required for impact analysis and understanding inter-industry linkages. A well known input-output model is the static input-output system of Wassily Leontief. It is a linear model which is based on Leontief production functions and a given vector of final demand.

The model is described with an example of a IO table (Table V.1) with, say, 3 sectors.

***Table V.1: IO Table with Three Sectors***

Sectors					
Sectors	1	2	3	Final Demand	Gross Value of Output
1	X <sub>11</sub>	X <sub>12</sub>	X <sub>13</sub>	F <sub>1</sub>	X <sub>1</sub>
2	X <sub>21</sub>	X <sub>22</sub>	X <sub>23</sub>	F <sub>2</sub>	X <sub>2</sub>
3	X <sub>31</sub>	X <sub>32</sub>	X <sub>33</sub>	F <sub>3</sub>	X <sub>3</sub>
Primary Inputs	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>		
Gross Value of Output	X <sub>1</sub>	X <sub>2</sub>	X <sub>3</sub>		

The above matrix represents the following set of 3 balanced equations, representing the sector's sales to other sectors and final users.

$$\begin{aligned} X_{11} + X_{12} + X_{13} + F_1 &= X_1 \\ X_{21} + X_{22} + X_{23} + F_2 &= X_2 \\ X_{31} + X_{32} + X_{33} + F_3 &= X_3 \end{aligned}$$

where F<sub>i</sub> is the final use or final demand.

Further, if a<sub>ij</sub> is the input coefficient and is denoted by x<sub>ij</sub> / X<sub>j</sub> , we get,

$$\begin{aligned} a_{11}X_1 + a_{12}X_2 + a_{13}X_3 + F_1 &= X_1 \\ a_{21}X_1 + a_{22}X_2 + a_{23}X_3 + F_2 &= X_2 \\ a_{31}X_1 + a_{32}X_2 + a_{33}X_3 + F_3 &= X_3 \end{aligned}$$

In matrix notations, these equations can be written as:

$$AX + F = X$$

$$\text{or } (I-A) X = F$$

A is the input-output coefficient matrix, (I-A) is known as Leontief matrix and (I-A)<sup>-1</sup> is the **Leontief inverse matrix**. This is the static open input-output model. It is clear from above that the input-output system attains equilibrium in terms of supply and demand: when there is a change in the final demand conditions, the application of input-output system indicates the new set of output levels of sectors that establish a new equilibrium to meet the changed final demand conditions. Thus, the input-output analysis is an economic application of general equilibrium theory, when we have the coefficient matrix A, and a given final demand vector y.

On the diagonal of Leontief matrix, net output is given for each sector with positive coefficients (revenues) while the rest of the matrix covers the input requirements with negative coefficients (costs). The Leontief inverse  $(I-A)^{-1}$  reflects the direct and indirect requirements for domestic intermediates for one unit of final demand. The difference between Inverse Matrix and A matrix corresponds to the indirect input requirements of the economy for one unit of FD.

## ***V.1. Output Multiplier***

The column sum of the inverse matrix is called the output multiplier which reflects the cumulative revenues of the economy which are induced by one additional unit of final demand of a certain product. For example, if the output multiplier of an industry is 2.12 then the increase of 1 unit in the final demand for this industry translates into the induced cumulative revenues of 2.12 units in the economy. The higher the values of multipliers, the larger are the effects on the input-output system of the economy.

The multipliers capture the direct as well as indirect effects a sector on the economy. If the final demand of a particular product increases by an amount, its production increases by that amount to meet the increased demand. This is known as direct effect.

However, as producers need to increase their output, they require more inputs, therefore, there will also be an increase in demand for inputs from their suppliers. This process goes on over the entire supply chain. This is known as indirect effect.

The inverse coefficients indicate how many commodities must be produced in order to satisfy one unit of final demand for goods and services. By including the interdependencies between all activities it is therefore possible to determine the total outputs, i.e. directly and indirectly required to satisfy a given final demand.

The most frequently used types of multipliers in input-output analysis are those that estimate the effects of the exogenous changes of final demand (consumption, investment, exports) on outputs of the sectors in the economy and value added.

**Table V.2: Leontief Inverse Matrix**

		Apples	Agriculture (other than Apples)	Livestock	Forestry and Logging	Fishing & Aquaculture	Mining	Processed meat, fish, fruit, vegetables, oils and fats
		1	2	3	4	5	6	7
1	Apples	1.0117	0.0086	0.0036	0.0001	0.0001	0.0006	0.0608
2	Agriculture (other than Apples)	0.0004	1.0267	0.1682	0.0011	0.0050	0.0012	0.0134
3	Livestock	0.0016	0.0036	1.0244	0.0016	0.0281	0.0009	0.0603
4	Forestry and Logging	0.0002	0.0005	0.0028	1.0014	0.0001	0.0005	0.1376
5	Fishing & Aquaculture	0.0000	0.0000	0.0000	0.0000	1.0136	0.0000	0.0010
6	Mining	0.0001	0.0003	0.0007	0.0005	0.0095	1.0009	0.0006
7	Processed meat, fish, fruit, vegetables, oils and fats	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	1.0037
8	Dairy products	0.0000	0.0000	0.0004	0.0000	0.0000	0.0000	0.0015
9	Grain mill products, etc. and animal feeds	0.0000	0.0001	0.0106	0.0002	0.0005	0.0009	0.0080
10	Other food products	0.0004	0.0009	0.0421	0.0003	0.0014	0.0008	0.1298
11	Beverages	0.0000	0.0001	0.0002	0.0000	0.0000	0.0000	0.0007
12	Tobacco products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13	Textiles & cotton ginning	0.0000	0.0001	0.0002	0.0006	0.0002	0.0027	0.0002
14	Readymade garments	0.0001	0.0001	0.0012	0.0023	0.0001	0.0023	0.0007
15	Leather and related products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000
16	Metal and Metal Products	0.0009	0.0020	0.0070	0.0127	0.0012	0.0197	0.0056
17	Electronic equipment	0.0001	0.0001	0.0015	0.0008	0.0001	0.0018	0.0009
18	Electrical equipment	0.0004	0.0008	0.0053	0.0062	0.0004	0.0144	0.0032
19	Machinery and equipment n.e.c.	0.0006	0.0014	0.0012	0.0007	0.0004	0.0366	0.0006
20	Transport equipment	0.0002	0.0005	0.0013	0.0020	0.0003	0.0012	0.0009
21	Petroleum and coal tar products	0.0005	0.0012	0.0031	0.0012	0.0003	0.0029	0.0014
22	Inorganic and Organic Chemicals	0.0123	0.0290	0.0124	0.0035	0.0011	0.0136	0.0161
23	Drugs and medicine	0.0003	0.0007	0.0389	0.0010	0.0026	0.0010	0.0090
24	Rubber & plastic products	0.0003	0.0006	0.0047	0.0026	0.0006	0.0293	0.0021
25	Other non-metallic mineral products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26	Wood and wood products except furniture	0.0001	0.0002	0.0078	0.0019	0.0005	0.0009	0.0012
27	Paper, Paper products and newsprint	0.0005	0.0011	0.0114	0.0061	0.0009	0.0249	0.0041
28	Publishing & printing	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
29	Furniture & Fixtures	0.0000	0.0000	0.0001	0.0004	0.0000	0.0011	0.0001
30	Other Manufacturing	0.0003	0.0007	0.0292	0.0091	0.0009	0.0042	0.0193
31	Repair and installation of machinery and equipments	0.0003	0.0005	0.0033	0.0014	0.0004	0.0114	0.0019
32	Construction	0.0050	0.0116	0.0060	0.0065	0.0004	0.0023	0.0037
33	Electricity	0.0133	0.0311	0.0190	0.0163	0.0013	0.0133	0.0209
34	Gas	0.0001	0.0001	0.0023	0.0004	0.0001	0.0004	0.0010
35	Water Supply	0.0003	0.0006	0.0039	0.0040	0.0004	0.0046	0.0020
36	Trade	0.0073	0.0128	0.0437	0.0066	0.0089	0.0205	0.0664
37	Hotels & Restaurant	0.0007	0.0015	0.0056	0.0050	0.0004	0.0019	0.0034
38	Railway Transport	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0001
39	Land transport	0.0065	0.0116	0.2253	0.0354	0.0128	0.0304	0.0719
40	Air transport	0.0000	0.0001	0.0001	0.0000	0.0000	0.0001	0.0001
41	Supportive and Auxiliary transport activities	0.0001	0.0001	0.0004	0.0001	0.0001	0.0002	0.0008
42	Storage and warehousing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
43	Communication services	0.0021	0.0042	0.0399	0.0165	0.0024	0.0175	0.0160
44	Financial, Legal, and Insurance services	0.0113	0.0264	0.0161	0.0046	0.0013	0.0121	0.0075
45	Ownership of dwellings	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
46	Education	0.0000	0.0000	0.0001	0.0018	0.0000	0.0005	0.0003
47	Health	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
48	Computer related services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
49	Business services	0.0016	0.0034	0.0155	0.0239	0.0025	0.1486	0.0111
50	Real estate services	0.0001	0.0002	0.0017	0.0003	0.0001	0.0004	0.0007
51	Renting of machinery & equipment	0.0001	0.0002	0.0013	0.0016	0.0002	0.0096	0.0020
52	Community, social, and personal services	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0000
53	Other services	0.0000	0.0001	0.0003	0.0004	0.0000	0.0010	0.0004
54	Public administration and defence	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Output Multiplier	1.0797	1.1839	1.7632	1.1814	1.0990	1.4380	1.6932

# ***Input-Output Transactions Table, 2017-18, Himachal Pradesh***

		Dairy products	Grain mill products, etc. and animal feeds	Other food products	Beverages	Tobacco products	Textiles & cotton ginning	Readymade garments
		8	9	10	11	12	13	14
1.	Apples	0.0100	0.1409	0.0300	0.0138	0.0020	0.0009	0.0006
2.	Agriculture (other than Apples)	0.0294	0.1473	0.0220	0.0088	0.0017	0.0146	0.0022
3.	Livestock	0.0826	0.0065	0.0244	0.0090	0.0028	0.0804	0.0084
4.	Forestry and Logging	0.0093	0.0024	0.0299	0.0032	0.2018	0.0021	0.0004
5.	Fishing & Aquaculture	0.0001	0.0000	0.0002	0.0000	0.0001	0.0000	0.0000
6.	Mining	0.0007	0.0051	0.0018	0.0031	0.0022	0.0016	0.0004
7.	Processed meat, fish, fruit, vegetables, oils and fats	0.0054	0.0040	0.0017	0.0004	0.0277	0.0001	0.0000
8.	Dairy products	1.0203	0.0008	0.0103	0.0062	0.0001	0.0001	0.0000
9.	Grain mill products, etc. and animal feeds	0.0386	1.1847	0.0359	0.0350	0.0010	0.0019	0.0009
10.	Other food products	0.0820	0.0624	1.1405	0.0819	0.0089	0.0075	0.0013
11.	Beverages	0.0011	0.0004	0.0047	1.0619	0.0001	0.0003	0.0001
12.	Tobacco products	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000
13.	Textiles & cotton ginning	0.0001	0.0003	0.0002	0.0029	0.0003	1.2297	0.0474
14.	Readymade garments	0.0003	0.0006	0.0003	0.0002	0.0008	0.0005	1.0034
15.	Leather and related products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000
16.	Metal and Metal Products	0.0058	0.0050	0.0046	0.0077	0.0140	0.0082	0.0038
17.	Electronic equipment	0.0011	0.0009	0.0009	0.0016	0.0008	0.0009	0.0006
18.	Electrical equipment	0.0025	0.0051	0.0024	0.0031	0.0033	0.0030	0.0104
19.	Machinery and equipment n.e.c.	0.0006	0.0011	0.0006	0.0011	0.0007	0.0010	0.0008
20.	Transport equipment	0.0005	0.0010	0.0005	0.0006	0.0009	0.0008	0.0009
21.	Petroleum and coal tar products	0.0012	0.0024	0.0011	0.0009	0.0012	0.0014	0.0007
22.	Inorganic and Organic Chemicals	0.0080	0.0113	0.0189	0.0225	0.0279	0.1062	0.0221
23.	Drugs and medicine	0.0064	0.0066	0.0282	0.0080	0.0024	0.0054	0.0024
24.	Rubber & plastic products	0.0014	0.0039	0.0017	0.0240	0.0029	0.0375	0.0092
25.	Other non-metallic mineral products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26.	Wood and wood products except furniture	0.0009	0.0009	0.0016	0.0005	0.1214	0.0018	0.0011
27.	Paper, Paper products and newsprint	0.0026	0.0057	0.0030	0.0029	0.0486	0.0346	0.0075
28.	Publishing & printing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29.	Furniture & Fixtures	0.0000	0.0001	0.0000	0.0000	0.0001	0.0003	0.0001
30.	Other Manufacturing	0.0248	0.0165	0.0189	0.0383	0.0142	0.0156	0.0028
31.	Repair and installation of machinery and equipments	0.0010	0.0026	0.0012	0.0009	0.0016	0.0013	0.0015
32.	Construction	0.0022	0.0066	0.0024	0.0017	0.0031	0.0023	0.0016
33.	Electricity	0.0434	0.0852	0.0252	0.0295	0.0595	0.0861	0.0425
34.	Gas	0.0055	0.0011	0.0024	0.0015	0.0006	0.0009	0.0002
35.	Water Supply	0.0013	0.0024	0.0012	0.0011	0.0019	0.0014	0.0011
36.	Trade	0.0357	0.1140	0.0465	0.0389	0.0483	0.0500	0.0117
37.	Hotels & Restaurant	0.0018	0.0047	0.0021	0.0016	0.0030	0.0022	0.0011
38.	Railway Transport	0.0000	0.0002	0.0001	0.0000	0.0001	0.0001	0.0003
39.	Land transport	0.0458	0.1015	0.0454	0.0348	0.0588	0.0574	0.0155
40.	Air transport	0.0000	0.0001	0.0000	0.0000	0.0001	0.0001	0.0000
41.	Supportive and Auxiliary transport activities	0.0004	0.0010	0.0006	0.0004	0.0004	0.0004	0.0004
42.	Storage and warehousing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
43.	Communication services	0.0109	0.0224	0.0106	0.0105	0.0146	0.0134	0.0135
44.	Financial, Legal, and Insurance services	0.0048	0.0171	0.0056	0.0041	0.0054	0.0055	0.0056
45.	Ownership of dwellings	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
46.	Education	0.0000	0.0001	0.0001	0.0000	0.0004	0.0000	0.0002
47.	Health	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
48.	Computer related services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
49.	Business services	0.0064	0.0387	0.0093	0.0062	0.0132	0.0129	0.1470
50.	Real estate services	0.0004	0.0010	0.0004	0.0004	0.0005	0.0005	0.0004
51.	Renting of machinery & equipment	0.0010	0.0041	0.0018	0.0011	0.0014	0.0028	0.0494
52.	Community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002
53.	Other services	0.0006	0.0139	0.0015	0.0006	0.0006	0.0004	0.0056
54.	Public administration and defence	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Output Multiplier	1.4971	2.0325	1.5407	1.4712	1.7017	1.7945	1.4255

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Leather and related products	Metal and Metal Products	Electronic equipment	Electrical equipment	Machinery and equipment n.e.c.	Transport Equipment	Petroleum and coal tar products
		15	16	17	18	19	20	21
1.	Apples	0.0008	0.0004	0.0003	0.0003	0.0003	0.0003	0.0002
2.	Agriculture (other than Apples)	0.0163	0.0012	0.0015	0.0015	0.0016	0.0016	0.0006
3.	Livestock	0.0820	0.0013	0.0025	0.0023	0.0020	0.0014	0.0005
4.	Forestry and Logging	0.0013	0.0012	0.0007	0.0007	0.0007	0.0008	0.0004
5.	Fishing & Aquaculture	0.0000	0.0005	0.0002	0.0002	0.0002	0.0001	0.0000
6.	Mining	0.0079	0.0206	0.0042	0.0041	0.0062	0.0085	0.0002
7.	Processed meat, fish, fruit, vegetables, oils and fats	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8.	Dairy products	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9.	Grain mill products, etc. and animal feeds	0.0011	0.0006	0.0005	0.0005	0.0004	0.0004	0.0001
10.	Other food products	0.0061	0.0021	0.0012	0.0012	0.0013	0.0013	0.0013
11.	Beverages	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
12.	Tobacco products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13.	Textiles & cotton ginning	0.0857	0.0009	0.0022	0.0021	0.0018	0.0015	0.0001
14.	Readymade garments	0.0131	0.0004	0.0006	0.0006	0.0005	0.0004	0.0001
15.	Leather and related products	1.0681	0.0002	0.0004	0.0007	0.0013	0.0009	0.0000
16.	Metal and Metal Products	0.0084	1.1765	0.1040	0.0995	0.1230	0.1286	0.0006
17.	Electronic equipment	0.0012	0.0063	1.0567	0.0408	0.0224	0.0097	0.0001
18.	Electrical equipment	0.0033	0.0214	0.1026	1.1010	0.0818	0.0459	0.0007
19.	Machinery and equipment n.e.c.	0.0017	0.0122	0.0347	0.0351	1.0544	0.0847	0.0001
20.	Transport equipment	0.0007	0.0038	0.0028	0.0025	0.0201	1.0663	0.0002
21.	Petroleum and coal tar products	0.0012	0.0024	0.0024	0.0023	0.0020	0.0014	1.0266
22.	Inorganic and Organic Chemicals	0.0998	0.0671	0.0313	0.0303	0.0367	0.0367	0.0311
23.	Drugs and medicine	0.0053	0.0018	0.0016	0.0015	0.0016	0.0016	0.0119
24.	Rubber & plastic products	0.0453	0.0102	0.0289	0.0271	0.0292	0.0324	0.0007
25.	Other non-metallic mineral products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26.	Wood and wood products except furniture	0.0023	0.0016	0.0011	0.0009	0.0010	0.0015	0.0002
27.	Paper, Paper products and newsprint	0.0093	0.0211	0.0190	0.0166	0.0176	0.0239	0.0013
28.	Publishing & printing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29.	Furniture & Fixtures	0.0001	0.0003	0.0004	0.0003	0.0015	0.0049	0.0000
30.	Other Manufacturing	0.0215	0.0167	0.0286	0.0256	0.0238	0.0181	0.0010
31.	Repair and installation of machinery and equipments	0.0015	0.0013	0.0013	0.0014	0.0013	0.0013	0.0007
32.	Construction	0.0024	0.0040	0.0121	0.0111	0.0086	0.0041	0.0011
33.	Electricity	0.0307	0.0834	0.0647	0.0617	0.0547	0.0409	0.0047
34.	Gas	0.0007	0.0007	0.0010	0.0010	0.0017	0.0026	0.0003
35.	Water Supply	0.0015	0.0066	0.0274	0.0249	0.0183	0.0064	0.0005
36.	Trade	0.0560	0.0475	0.0422	0.0400	0.0474	0.0555	0.0323
37.	Hotels & Restaurant	0.0025	0.0029	0.0068	0.0063	0.0052	0.0031	0.0012
38.	Railway Transport	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000
39.	Land transport	0.0626	0.0419	0.0389	0.0372	0.0423	0.0480	0.0273
40.	Air transport	0.0001	0.0001	0.0003	0.0002	0.0002	0.0001	0.0000
41.	Supportive and Auxiliary transport activities	0.0005	0.0004	0.0004	0.0004	0.0004	0.0005	0.0003
42.	Storage and warehousing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
43.	Communication services	0.0147	0.0660	0.2802	0.2545	0.1861	0.0641	0.0050
44.	Financial, Legal, and Insurance services	0.0059	0.0082	0.0225	0.0209	0.0163	0.0084	0.0026
45.	Ownership of dwellings	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
46.	Education	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000
47.	Health	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
48.	Computer related services	0.0000	0.0000	0.0001	0.0001	0.0000	0.0000	0.0000
49.	Business services	0.0110	0.0172	0.0388	0.0545	0.0282	0.0143	0.0028
50.	Real estate services	0.0006	0.0007	0.0015	0.0014	0.0012	0.0007	0.0003
51.	Renting of machinery & equipment	0.0020	0.0022	0.0038	0.0109	0.0029	0.0017	0.0002
52.	Community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
53.	Other services	0.0002	0.0004	0.0003	0.0004	0.0002	0.0002	0.0000
54.	Public administration and defence	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Output Multiplier	1.6759	1.6548	1.9712	1.9251	1.8470	1.7253	1.1572

# ***Input-Output Transactions Table, 2017-18, Himachal Pradesh***

	Inorganic and Organic Chemicals	Drugs and medicine	Rubber & plastic products	Other non-metallic mineral products	Wood and wood products except furniture	Paper, Paper products and newsprint	Publishing & printing
	22	23	24	25	26	27	28
1. Apples	0.0047	0.0003	0.0013	0.0003	0.0013	0.0025	0.0011
2. Agriculture (other than Apples)	0.0036	0.0006	0.0022	0.0010	0.0021	0.0034	0.0020
3. Livestock	0.0055	0.0004	0.0046	0.0010	0.0018	0.0017	0.0019
4. Forestry and Logging	0.0106	0.0006	0.0036	0.0008	0.0110	0.0159	0.0049
5. Fishing & Aquaculture	0.0001	0.0000	0.0001	0.0007	0.0000	0.0000	0.0004
6. Mining	0.0031	0.0005	0.0031	0.0230	0.0057	0.0114	0.0058
7. Processed meat, fish, fruit, vegetables, oils and fats	0.0005	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001
8. Dairy products	0.0003	0.0002	0.0001	0.0000	0.0001	0.0001	0.0001
9. Grain mill products, etc. and animal feeds	0.0014	0.0005	0.0010	0.0003	0.0044	0.0156	0.0040
10. Other food products	0.0296	0.0057	0.0086	0.0019	0.0071	0.0128	0.0057
11. Beverages	0.0023	0.0006	0.0007	0.0002	0.0004	0.0003	0.0003
12. Tobacco products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13. Textiles & cotton ginning	0.0023	0.0002	0.0066	0.0004	0.0010	0.0008	0.0037
14. Readymade garments	0.0002	0.0000	0.0005	0.0003	0.0004	0.0004	0.0004
15. Leather and related products	0.0000	0.0000	0.0013	0.0000	0.0000	0.0001	0.0002
16. Metal and Metal Products	0.0042	-0.0005	0.0358	0.2175	0.0209	0.0547	0.1318
17. Electronic equipment	0.0008	-0.0002	0.0041	0.0017	0.0010	0.0013	0.0025
18. Electrical equipment	0.0020	-0.0002	0.0129	0.0059	0.0041	0.0039	0.0062
19. Machinery and equipment n.e.c.	0.0007	0.0000	0.0085	0.0042	0.0010	0.0016	0.0032
20. Transport equipment	0.0003	0.0000	0.0043	0.0011	0.0006	0.0008	0.0014
21. Petroleum and coal tar products	0.0006	0.0001	0.0012	0.0023	0.0012	0.0017	0.0015
22. Inorganic and Organic Chemicals	1.1244	0.0134	0.2889	0.0681	0.1686	0.1005	0.1165
23. Drugs and medicine	0.0129	1.1122	0.0050	0.0018	0.0074	0.0031	0.0028
24. Rubber & plastic products	0.0043	0.0006	1.0192	0.0039	0.0102	0.0324	0.1157
25. Other non-metallic mineral products	0.0000	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000
26. Wood and wood products except furniture	0.0003	0.0000	0.0038	0.0012	1.0644	0.0139	0.0042
27. Paper, Paper products and newsprint	0.0045	0.0003	0.0379	0.0066	0.3992	1.6011	0.3889
28. Publishing & printing	0.0000	0.0000	0.0000	0.0000	0.0001	0.0004	1.0006
29. Furniture & Fixtures	0.0000	0.0000	0.0003	0.0001	0.0001	0.0001	0.0001
30. Other Manufacturing	0.0138	-0.0046	0.0156	0.0144	0.0173	0.0155	0.0125
31. Repair and installation of machinery and equipments	0.0006	0.0001	0.0011	0.0013	0.0014	0.0016	0.0016
32. Construction	0.0011	0.0001	0.0029	0.0022	0.0024	0.0026	0.0028
33. Electricity	0.0135	0.0037	0.0539	0.0878	0.0437	0.0542	0.0522
34. Gas	0.0003	0.0001	0.0007	0.0006	0.0006	0.0008	0.0008
35. Water Supply	0.0008	0.0000	0.0039	0.0021	0.0015	0.0017	0.0023
36. Trade	0.0254	0.0022	0.0487	0.0486	0.0575	0.0681	0.0657
37. Hotels & Restaurant	0.0011	0.0001	0.0024	0.0021	0.0024	0.0027	0.0028
38. Railway Transport	0.0000	0.0000	0.0001	0.0001	0.0004	0.0001	0.0002
39. Land transport	0.0229	0.0020	0.0426	0.0426	0.0540	0.0586	0.0578
40. Air transport	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
41. Supportive and Auxiliary transport activities	0.0002	0.0000	0.0004	0.0004	0.0005	0.0006	0.0008
42. Storage and warehousing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
43. Communication services	0.0076	0.0000	0.0390	0.0200	0.0151	0.0158	0.0230
44. Financial, Legal, and Insurance services	0.0025	0.0002	0.0062	0.0052	0.0059	0.0061	0.0068
45. Ownership of dwellings	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
46. Education	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001
47. Health	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
48. Computer related services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
49. Business services	0.0036	0.0003	0.0103	0.0128	0.0279	0.0101	0.0178
50. Real estate services	0.0002	0.0000	0.0005	0.0005	0.0005	0.0006	0.0006
51. Renting of machinery & equipment	0.0004	0.0000	0.0012	0.0020	0.0038	0.0013	0.0066
52. Community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
53. Other services	0.0001	0.0000	0.0003	0.0005	0.0043	0.0004	0.0012
54. Public administration and defence	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Output Multiplier	1.3134	1.1395	1.6860	1.5877	1.9540	2.1215	2.0616



# ***Input-Output Transactions Table, 2017-18, Himachal Pradesh***

		Furniture & Fixtures	Other Manufacturing	Repair and installation of machinery and equipments	Construction	Electricity	Gas	Water Supply
		29	30	31	32	33	34	35
1.	Apples	0.0009	0.0004	0.0002	0.0005	0.0000	0.0006	0.0005
2.	Agriculture (other than Apples)	0.0018	0.0013	0.0023	0.0107	0.0003	0.0033	0.0024
3.	Livestock	0.0017	0.0015	0.0063	0.0044	0.0001	0.0063	0.0045
4.	Forestry and Logging	0.0264	0.0010	0.0005	0.0149	0.0000	0.0015	0.0008
5.	Fishing & Aquaculture	0.0000	0.0004	0.0001	0.0001	0.0000	0.0002	0.0000
6.	Mining	0.0065	0.0092	0.0005	0.0123	0.0003	0.0061	0.0171
7.	Processed meat, fish, fruit, vegetables, oils and fats	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8.	Dairy products	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9.	Grain mill products, etc. and animal feeds	0.0029	0.0004	0.0003	0.0004	0.0000	0.0011	0.0006
10.	Other food products	0.0048	0.0029	0.0007	0.0020	0.0000	0.0015	0.0011
11.	Beverages	0.0003	0.0003	0.0001	0.0002	0.0000	0.0001	0.0001
12.	Tobacco products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13.	Textiles & cotton ginning	0.0023	0.0011	0.0005	0.0006	0.0000	0.0015	0.0008
14.	Readymade garments	0.0004	0.0004	0.0003	0.0008	0.0000	0.0124	0.0006
15.	Leather and related products	0.0001	0.0005	0.0000	0.0000	0.0000	0.0001	0.0001
16.	Metal and Metal Products	0.0540	0.1521	0.0068	0.1249	0.0011	0.2636	0.0108
17.	Electronic equipment	0.0154	0.0398	0.0003	0.0017	0.0000	0.0048	0.0009
18.	Electrical equipment	0.0173	0.0508	0.0051	0.0196	0.0002	0.0443	0.0123
19.	Machinery and equipment n.e.c.	0.0186	0.0179	0.0007	0.0042	0.0000	0.0045	0.0016
20.	Transport equipment	0.0161	0.0056	0.0026	0.0009	0.0000	0.0014	0.0005
21.	Petroleum and coal tar products	0.0013	0.0014	0.0020	0.0022	0.0001	0.0058	0.0053
22.	Inorganic and Organic Chemicals	0.1150	0.0736	0.0111	0.0612	0.0002	0.0239	0.0229
23.	Drugs and medicine	0.0055	0.0127	0.0008	0.0018	0.0000	0.0017	0.0014
24.	Rubber & plastic products	0.0138	0.0149	0.0027	0.0150	0.0001	0.0068	0.0343
25.	Other non-metallic mineral products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26.	Wood and wood products except furniture	0.0595	0.0014	0.0056	0.0030	0.0000	0.0014	0.0007
27.	Paper, Paper products and newsprint	0.2541	0.0098	0.0066	0.0094	0.0005	0.0435	0.0101
28.	Publishing & printing	0.0001	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000
29.	Furniture & Fixtures	1.0036	0.0003	0.0001	0.0006	0.0000	0.0006	0.0002
30.	Other Manufacturing	0.0164	1.0232	0.0014	0.0059	0.0001	0.0103	0.0022
31.	Repair and installation of machinery and equipments	0.0015	0.0012	1.0099	0.0189	0.0000	0.0023	0.0017
32.	Construction	0.0028	0.0049	0.0219	1.0058	0.0008	0.0495	0.0270
33.	Electricity	0.0413	0.0488	0.0299	0.0419	1.0005	0.0981	0.0494
34.	Gas	0.0010	0.0009	0.0002	0.0012	0.0000	1.0006	0.0005
35.	Water Supply	0.0025	0.0092	0.0032	0.0050	0.0005	0.0368	1.0087
36.	Trade	0.0554	0.0446	0.0072	0.0365	0.0005	0.0520	0.0220
37.	Hotels & Restaurant	0.0026	0.0033	0.0201	0.0129	0.0003	0.0193	0.0139
38.	Railway Transport	0.0004	0.0001	0.0001	0.0001	0.0000	0.0005	0.0001
39.	Land transport	0.0536	0.0394	0.0170	0.0440	0.0005	0.0474	0.0408
40.	Air transport	0.0001	0.0001	0.0006	0.0004	0.0000	0.0003	0.0035
41.	Supportive and Auxiliary transport activities	0.0005	0.0004	0.0002	0.0003	0.0000	0.0005	0.0003
42.	Storage and warehousing	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
43.	Communication services	0.0253	0.0929	0.0157	0.1024	0.0013	0.1108	0.0880
44.	Financial, Legal, and Insurance services	0.0065	0.0098	0.0490	0.0273	0.0007	0.0292	0.1059
45.	Ownership of dwellings	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
46.	Education	0.0001	0.0001	0.0002	0.0002	0.0000	0.0008	0.0002
47.	Health	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
48.	Computer related services	0.0000	0.0000	0.0000	0.0002	0.0000	0.0001	0.0000
49.	Business services	0.0298	0.0192	0.0373	0.0312	0.0016	0.1269	0.1006
50.	Real estate services	0.0006	0.0007	0.0025	0.0082	0.0000	0.0012	0.0009
51.	Renting of machinery & equipment	0.0057	0.0026	0.0030	0.0028	0.0001	0.0088	0.0065
52.	Community, social, and personal services	0.0000	0.0000	0.0000	0.0001	0.0000	0.0012	0.0001
53.	Other services	0.0037	0.0003	0.0003	0.0003	0.0000	0.0042	0.0004
54.	Public administration and defence	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Output Multiplier	1.8725	1.7015	1.2762	1.6372	1.0102	2.0380	1.6026



# ***Input-Output Transactions Table, 2017-18, Himachal Pradesh***

		Trade	Hotels & Restaurant	Railway Transport	Land transport	Air transport	Supportive and Auxiliary transport activities	Storage and warehousing
		36	37	38	39	40	41	42
1.	Apples	0.0002	0.0017	0.0003	0.0004	0.0008	0.0002	0.0007
2.	Agriculture (other than Apples)	0.0023	0.0891	0.0016	0.0151	0.0029	0.0014	0.0024
3.	Livestock	0.0063	0.3089	0.0028	0.0066	0.0061	0.0033	0.0064
4.	Forestry and Logging	0.0005	0.0010	0.0008	0.0007	0.0010	0.0004	0.0010
5.	Fishing & Aquaculture	0.0001	0.0027	0.0000	0.0001	0.0001	0.0000	0.0000
6.	Mining	0.0005	0.0003	0.0064	0.0010	0.0018	0.0007	0.0011
7.	Processed meat, fish, fruit, vegetables, oils and fats	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
8.	Dairy products	0.0000	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000
9.	Grain mill products, etc. and animal feeds	0.0003	0.0041	0.0005	0.0007	0.0013	0.0004	0.0009
10.	Other food products	0.0007	0.0161	0.0005	0.0012	0.0011	0.0004	0.0021
11.	Beverages	0.0001	0.0040	0.0000	0.0001	0.0001	0.0001	0.0002
12.	Tobacco products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13.	Textiles & cotton ginning	0.0005	0.0001	0.0008	0.0007	0.0022	0.0004	0.0322
14.	Readymade garments	0.0003	0.0005	0.0086	0.0053	0.0254	0.0020	0.0029
15.	Leather and related products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
16.	Metal and Metal Products	0.0068	0.0028	0.0079	0.0093	0.0104	0.0051	0.0067
17.	Electronic equipment	0.0003	0.0005	0.0009	0.0017	0.0041	0.0021	0.0030
18.	Electrical equipment	0.0051	0.0026	0.0094	0.0163	0.0224	0.0106	0.0137
19.	Machinery and equipment n.e.c.	0.0007	0.0005	0.0011	0.0016	0.0015	0.0008	0.0018
20.	Transport equipment	0.0026	0.0007	0.0030	0.0044	0.0008	0.0006	0.0008
21.	Petroleum and coal tar products	0.0020	0.0015	0.0026	0.0127	0.0058	0.0038	0.0030
22.	Inorganic and Organic Chemicals	0.0111	0.0059	0.0056	0.0147	0.0094	0.0035	0.0545
23.	Drugs and medicine	0.0008	0.0124	0.0005	0.0199	0.0016	0.0006	0.0021
24.	Rubber & plastic products	0.0027	0.0023	0.0024	0.0185	0.0046	0.0023	0.0616
25.	Other non-metallic mineral products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26.	Wood and wood products except furniture	0.0056	0.0026	0.0005	0.0008	0.0011	0.0004	0.0010
27.	Paper, Paper products and newsprint	0.0066	0.0047	0.0186	0.0364	0.0404	0.0103	0.0243
28.	Publishing & printing	0.0000	0.0000	0.0002	0.0001	0.0004	0.0001	0.0003
29.	Furniture & Fixtures	0.0001	0.0000	0.0003	0.0002	0.0005	0.0003	0.0022
30.	Other Manufacturing	0.0014	0.0094	0.0034	0.0056	0.0117	0.0019	0.0041
31.	Repair and installation of machinery and equipments	0.0099	0.0020	0.0012	0.0132	0.0015	0.0032	0.0010
32.	Construction	0.0219	0.0034	0.0408	0.0133	0.0287	0.0164	0.0076
33.	Electricity	0.0299	0.0150	0.0633	0.0454	0.1372	0.0559	0.0879
34.	Gas	0.0002	0.0010	0.0002	0.0100	0.0007	0.0003	0.0003
35.	Water Supply	0.0032	0.0026	0.0167	0.0157	0.0519	0.0187	0.0240
36.	Trade	1.0072	0.0422	0.0114	0.0257	0.0193	0.0081	0.0222
37.	Hotels & Restaurant	0.0201	1.0030	0.0086	0.0206	0.0187	0.0105	0.0126
38.	Railway Transport	0.0001	0.0000	1.0001	0.0001	0.0010	0.0001	0.0001
39.	Land transport	0.0170	0.0925	0.0114	1.0242	0.0200	0.0113	0.0211
40.	Air transport	0.0006	0.0001	0.0001	0.0003	1.0006	0.0011	0.0002
41.	Supportive and Auxiliary transport activities	0.0002	0.0005	0.0001	0.0005	0.0002	1.0040	0.0003
42.	Storage and warehousing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000
43.	Communication services	0.0157	0.0175	0.0423	0.1657	0.0965	0.0958	0.0514
44.	Financial, Legal, and Insurance services	0.0490	0.0109	0.0095	0.0380	0.0637	0.0366	0.0196
45.	Ownership of dwellings	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
46.	Education	0.0002	0.0000	0.0007	0.0002	0.0132	0.0026	0.0154
47.	Health	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
48.	Computer related services	0.0000	0.0000	0.0000	0.0000	0.0003	0.0001	0.0001
49.	Business services	0.0373	0.0125	0.0706	0.0576	0.1891	0.0563	0.1114
50.	Real estate services	0.0025	0.0007	0.0021	0.0070	0.0008	0.0006	0.0027
51.	Renting of machinery & equipment	0.0030	0.0009	0.0051	0.0047	0.0160	0.0037	0.0071
52.	Community, social, and personal services	0.0000	0.0000	0.0003	0.0001	0.0014	0.0001	0.0006
53.	Other services	0.0003	0.0002	0.0032	0.0005	0.0012	0.0006	0.0028
54.	Public administration and defence	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Output Multiplier	1.2762	1.6807	1.3667	1.6168	1.8195	1.3781	1.6175

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Communication services	Financial, Legal and Insurance services	Ownership of dwellings	Education	Health	Computer related services	Business services
		43	44	45	46	47	48	49
1.	Apples	0.0006	0.0003	0.0000	0.0004	0.0003	0.0010	0.0040
2.	Agriculture (other than Apples)	0.0034	0.0033	0.0003	0.0009	0.0008	0.0023	0.0047
3.	Livestock	0.0075	0.0102	0.0002	0.0012	0.0011	0.0036	0.0015
4.	Forestry and Logging	0.0012	0.0003	0.0004	0.0005	0.0005	0.0005	0.0008
5.	Fishing & Aquaculture	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
6.	Mining	0.0014	0.0005	0.0003	0.0005	0.0004	0.0007	0.0012
7.	Processed meat, fish, fruit, vegetables, oils and fats	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
8.	Dairy products	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
9.	Grain mill products, etc. and animal feeds	0.0011	0.0006	0.0000	0.0008	0.0005	0.0015	0.0055
10.	Other food products	0.0011	0.0008	0.0001	0.0008	0.0039	0.0009	0.0025
11.	Beverages	0.0001	0.0001	0.0000	0.0000	0.0004	0.0001	0.0001
12.	Tobacco products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
13.	Textiles & cotton ginning	0.0010	0.0005	0.0000	0.0006	0.0022	0.0015	0.0060
14.	Readymade garments	0.0017	0.0002	0.0000	0.0004	0.0005	0.0006	0.0008
15.	Leather and related products	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
16.	Metal and Metal Products	0.0156	0.0030	0.0035	0.0043	0.0010	0.0068	0.0147
17.	Electronic equipment	0.0050	0.0006	0.0001	0.0006	0.0001	0.0013	0.0032
18.	Electrical equipment	0.0690	0.0077	0.0006	0.0076	0.0019	0.0221	0.0768
19.	Machinery and equipment n.e.c.	0.0046	0.0005	0.0001	0.0005	0.0001	0.0012	0.0031
20.	Transport equipment	0.0006	0.0002	0.0000	0.0005	0.0001	0.0008	0.0014
21.	Petroleum and coal tar products	0.0075	0.0008	0.0001	0.0007	0.0002	0.0010	0.0014
22.	Inorganic and Organic Chemicals	0.0097	0.0028	0.0017	0.0049	0.0099	0.0055	0.0147
23.	Drugs and medicine	0.0011	0.0011	0.0001	0.0435	0.7370	0.0007	0.0012
24.	Rubber & plastic products	0.0043	0.0013	0.0004	0.0024	0.0008	0.0020	0.0045
25.	Other non-metallic mineral products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26.	Wood and wood products except furniture	0.0010	0.0008	0.0001	0.0006	0.0002	0.0009	0.0030
27.	Paper, Paper products and newsprint	0.0404	0.0128	0.0003	0.0362	0.0027	0.0110	0.0219
28.	Publishing & printing	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
29.	Furniture & Fixtures	0.0005	0.0001	0.0000	0.0002	0.0001	0.0002	0.0001
30.	Other Manufacturing	0.0069	0.0025	0.0002	0.0009	-0.0027	0.0018	0.0041
31.	Repair and installation of machinery and equipments	0.0022	0.0020	0.0007	0.0056	0.0033	0.0013	0.0022
32.	Construction	0.0481	0.0086	0.0278	0.0066	0.0039	0.0193	0.0037
33.	Electricity	0.1847	0.0544	0.0015	0.0188	0.0143	0.0345	0.0378
34.	Gas	0.0006	0.0001	0.0000	0.0003	0.0002	0.0004	0.0003
35.	Water Supply	0.0054	0.0095	0.0002	0.0040	0.0026	0.0058	0.0033
36.	Trade	0.0214	0.0049	0.0010	0.0055	0.0034	0.0067	0.0161
37.	Hotels & Restaurant	0.0238	0.0328	0.0005	0.0036	0.0024	0.0109	0.0025
38.	Railway Transport	0.0001	0.0001	0.0000	0.0001	0.0000	0.0007	0.0002
39.	Land transport	0.0242	0.0070	0.0013	0.0058	0.0034	0.0096	0.0189
40.	Air transport	0.0006	0.0024	0.0000	0.0026	0.0008	0.0003	0.0001
41.	Supportive and Auxiliary transport activities	0.0003	0.0006	0.0000	0.0004	0.0001	0.0009	0.0003
42.	Storage and warehousing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
43.	Communication services	1.2907	0.0277	0.0030	0.0152	0.0054	0.0510	0.0337
44.	Financial, Legal, and Insurance services	0.0791	1.0373	0.0067	0.0309	0.0413	0.1144	0.0124
45.	Ownership of dwellings	0.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
46.	Education	0.0004	0.0004	0.0000	1.0051	0.0007	0.0024	0.0005
47.	Health	0.0001	0.0006	0.0000	0.0000	1.0022	0.0001	0.0000
48.	Computer related services	0.0002	0.0001	0.0000	0.0000	0.0002	1.0002	0.0000
49.	Business services	0.1434	0.0694	0.0013	0.1000	0.0225	0.2984	1.1965
50.	Real estate services	0.0057	0.0003	0.0002	0.0002	0.0001	0.0005	0.0006
51.	Renting of machinery & equipment	0.0110	0.0043	0.0001	0.0061	0.0014	0.0212	0.0718
52.	Community, social, and personal services	0.0002	0.0001	0.0000	0.0002	0.0000	0.0001	0.0001
53.	Other services	0.0008	0.0005	0.0000	0.0042	0.0018	0.0011	0.0029
54.	Public administration and defence	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Output Multiplier	2.0288	1.3142	1.0530	1.3244	1.8722	1.6481	1.5813

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

		Real estate services	Renting of machinery & equipment	Community, social and personal services	Other services	Public administration and defence
		50	51	52	53	54
1.	Apples	0.0001	0.0003	0.0004	0.0007	0.0019
2.	Agriculture (other than Apples)	0.0006	0.0011	0.0015	0.0013	0.0571
3.	Livestock	0.0014	0.0018	0.0022	0.0017	0.0432
4.	Forestry and Logging	0.0003	0.0003	0.0009	0.0003	0.0062
5.	Fishing & Aquaculture	0.0000	0.0000	0.0000	0.0000	0.0000
6.	Mining	0.0003	0.0006	0.0011	0.0004	0.0006
7.	Processed meat, fish, fruit, vegetables, oils and fats	0.0000	0.0000	0.0000	0.0000	0.0009
8.	Dairy products	0.0000	0.0000	0.0000	0.0000	0.0002
9.	Grain mill products, etc. and animal feeds	0.0002	0.0005	0.0007	0.0009	0.0081
10.	Other food products	0.0002	0.0005	0.0007	0.0006	0.0093
11.	Beverages	0.0000	0.0000	0.0001	0.0000	0.0054
12.	Tobacco products	0.0000	0.0000	0.0000	0.0000	0.0000
13.	Textiles & cotton ginning	0.0002	0.0010	0.0011	0.0010	0.0003
14.	Readymade garments	0.0005	0.0012	0.0014	0.0006	0.0006
15.	Leather and related products	0.0000	0.0000	0.0000	0.0000	0.0004
16.	Metal and Metal Products	0.0026	0.0090	0.0103	0.0046	0.0037
17.	Electronic equipment	0.0003	0.0016	0.0010	0.0011	0.0004
18.	Electrical equipment	0.0032	0.0124	0.0144	0.0186	0.0038
19.	Machinery and equipment n.e.c.	0.0005	0.0053	0.0014	0.0010	0.0006
20.	Transport equipment	0.0012	0.0139	0.0024	0.0010	0.0028
21.	Petroleum and coal tar products	0.0022	0.0030	0.0008	0.0009	0.0006
22.	Inorganic and Organic Chemicals	0.0021	0.0051	0.0112	0.0038	0.0228
23.	Drugs and medicine	0.0003	0.0007	0.0006	0.0005	0.0066
24.	Rubber & plastic products	0.0017	0.0060	0.0215	0.0026	0.0016
25.	Other non-metallic mineral products	0.0000	0.0000	0.0000	0.0000	0.0000
26.	Wood and wood products except furniture	0.0002	0.0006	0.0007	0.0006	0.0006
27.	Paper, Paper products and newsprint	0.0072	0.0111	0.0189	0.0079	0.0023
28.	Publishing & printing	0.0000	0.0001	0.0000	0.0000	0.0000
29.	Furniture & Fixtures	0.0005	0.0009	0.0002	0.0001	0.0003
30.	Other Manufacturing	0.0016	0.0037	0.0050	0.0019	0.0023
31.	Repair and installation of machinery and equipments	0.0009	0.0212	0.0029	0.0021	0.0009
32.	Construction	0.0115	0.0062	0.0401	0.0043	0.0160
33.	Electricity	0.0221	0.0332	0.0496	0.0362	0.0148
34.	Gas	0.0001	0.0002	0.0002	0.0006	0.0003
35.	Water Supply	0.0058	0.0097	0.0124	0.0074	0.0108
36.	Trade	0.0044	0.0102	0.0091	0.0052	0.0197
37.	Hotels & Restaurant	0.0044	0.0053	0.0065	0.0051	0.0054
38.	Railway Transport	0.0001	0.0000	0.0000	0.0003	0.0001
39.	Land transport	0.0057	0.0148	0.0107	0.0099	0.0270
40.	Air transport	0.0001	0.0002	0.0001	0.0005	0.0012
41.	Supportive and Auxiliary transport activities	0.0002	0.0005	0.0001	0.0001	0.0002
42.	Storage and warehousing	0.0003	0.0002	0.0000	0.0000	0.0000
43.	Communication services	0.0131	0.0346	0.0125	0.0300	0.0083
44.	Financial, Legal, and Insurance services	0.0165	0.0417	0.0126	0.0769	0.0051
45.	Ownership of dwellings	0.0000	0.0000	0.0000	0.0000	0.0000
46.	Education	0.0006	0.0039	0.0008	0.0010	0.0001
47.	Health	0.0000	0.0000	0.0000	0.0001	0.0000
48.	Computer related services	0.0009	0.0000	0.0001	0.0003	0.0000
49.	Business services	0.0167	0.0915	0.1098	0.1812	0.0271
50.	Real estate services	1.0029	0.0046	0.0006	0.0003	0.0004
51.	Renting of machinery & equipment	0.0150	1.0082	0.0135	0.0168	0.0017
52.	Community, social, and personal services	0.0001	0.0002	1.0002	0.0005	0.0000
53.	Other services	0.0002	0.0023	0.0022	1.0097	0.0002
54.	Public administration and defence	0.0000	0.0000	0.0000	0.0000	1.0000
	Output Multiplier	1.1490	1.3694	1.3827	1.4409	1.3216



## APPENDIX TABLES

***Table A1: Aggregation Scheme for Industries***

S. No.	Industries	Aggregation scheme for 60 industries	Aggregation scheme for 54 industries	S No.
1.	Agriculture	Agriculture	Apples	1
			Agriculture (other than Apples)	2
2.	Livestock	Livestock	Livestock	3
3.	Forestry and Logging	Forestry and Logging	Forestry and Logging	4
4.	Fishing & Aquaculture	Fishing & Aquaculture	Fishing & Aquaculture	5
5.	Coal & Lignite	Limestone and other minor minerals	Limestone and other minor minerals	6
6.	Crude Petroleum			
7.	Natural Gas			
8.	Iron Ore			
9.	Non ferrous metal ores			
10.	Other Mining			
11.	Production, processing and preservation of meat, fish, fruit, vegetables, oils and fats	Production, processing and preservation of meat, fish, fruit, vegetables, oils and fats	Processed meat, fish, fruit, vegetables, oils and fats	7
12.	Manufacture of dairy products	Manufacture of dairy products	Dairy products	8
13.	Manufacture of grain mill products, etc. and animal feeds	Manufacture of grain mill products, etc. and animal feeds	Grain mill products, etc. and animal feeds	9
14.	Manufacture of other food products	Manufacture of other food products	Other food products	10
15.	Manufacture of beverages	Manufacture of beverages	Beverages	11
16.	Manufacture of tobacco products	Manufacture of tobacco products	Tobacco products	12
17.	Manufacture of textiles + cotton ginning	Manufacture of textiles + cotton ginning	Textiles & cotton ginning	13
18.	Manufacture of wearing apparel, except custom tailoring	Manufacture of wearing apparel, except custom tailoring	Readymade garments	14
19.	Manufacture of leather and related products	Manufacture of leather and related products	Leather and related products	15
20.	Manufacture of Basic Iron and Steel + Casting of iron and steel	Manufacture of Basic Iron and Steel + Casting of iron and steel	Metal and metal products	16
21.	Manufacture of basic precious and non-ferrous metals + Casting of non-ferrous metals	Manufacture of basic precious and non-ferrous metals + Casting of non-ferrous metals		
22.	Manufacture of fabricated metal products, except machinery and equipment	Manufacture of fabricated metal products, except machinery and equipment		
23.	Manufacture of electronic component, consumer electronics, magnetic and optical media	Manufacture of electronic component, consumer electronics, magnetic and optical media	Electronic and components	17
24.	Manufacture of computer and peripheral equipment	Manufacture of computer and peripheral equipment		
25.	Manufacture of communication equipment	Manufacture of communication equipment		
26.	Manufacture of optical and electronics products n.e.c.	Manufacture of optical and electronics products n.e.c.		
27.	Manufacture of Electrical equipment	Manufacture of Electrical equipment	Electrical Equipment	18

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

S. No.	Industries	Aggregation scheme for 60 industries	Aggregation scheme for 54 industries	S No.
28.	Manufacture of machinery and equipment n.e.c.	Manufacture of machinery and equipment n.e.c.	Machinery and equipment n.e.c.	19
29.	Manufacture of Transport	Manufacture of Transport	Transport equipment	20
30.	Manufacture of coke and refined petroleum products	Manufacture of coke and refined petroleum products	Petroleum and coal tar products	21
31.	Manufacture of chemical and chemical products except pharmaceuticals, medicinal and botanical products	Manufacture of chemical and chemical products except pharmaceuticals, medicinal and botanical products	Inorganic and Organic Chemicals	22
32.	Manufacture of pharmaceutical; medicinal chemicals and botanical products	Manufacture of pharmaceutical; medicinal chemicals and botanical products	Drugs and medicine	23
33.	Manufacture of rubber & plastic products	Manufacture of rubber & plastic products	Rubber & plastic products	24
34.	Manufacture of other non-metallic mineral products	Manufacture of other non-metallic mineral products	Other non-metallic mineral products	25
35.	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting material	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting material	Wood and wood products except furniture	26
36.	Manufacture of paper and paper products	Manufacture of paper and paper products	Paper, Paper products and newsprint	27
37.	Printing and reproduction of recorded media except publishing	Printing and reproduction of recorded media except publishing	Publishing & printing	28
38.	Manufacture of furniture	Manufacture of furniture	Furniture & Fixtures	29
39.	Other Manufacturing	Other Manufacturing	Other Manufacturing	30
40.	Repair and installation of machinery and equipment	Repair and installation of machinery and equipment	Repair and installation of machinery and equipment	31
41.	Construction	Construction	Construction	32
42.	Electricity	Electricity	Electricity	33
43.	Gas	Gas	Gas	34
44.	Water supply	Water supply	Water Supply	35
45.	Railway Transport	Railway Transport	Railway Transport	36
46.	Land Transport	Land Transport	Land Transport	37
47.	Water Transport	-	-	
48.	Air Transport	Air Transport	Air Transport	38
49.	Supportive & Auxiliary transport activities	Supportive & Auxiliary transport activities	Supportive & Auxiliary transport activities	39
50.	Storage & warehousing	Storage & warehousing	Storage & warehousing	40
51.	Communication	Communication	Communication	41
52.	Trade	Trade	Trade	42
53.	Hotels & Restaurant	Hotels & Restaurant	Hotels & Restaurant	43
54.	Financial Services	Financial Services	Financial, Legal and Insurance services	44
55.	Insurance Services	Insurance Services		
56.	Ownership of dwellings	Ownership of dwellings	Ownership of dwellings	45
57.	Education & Research	Education & Research	Education	46
58.	Medical and Health	Medical and Health	Health	47
59.	Legal Services	Legal Services	-	

S. No.	Industries	Aggregation scheme for 60 industries	Aggregation scheme for 54 industries	S No.
60.	Computer related services	Computer related services	Computer related services	48
61.	Other Business services	Other Business services	Other Business services	49
62.	Real estate activities	Real estate activities	Real estate activities	50
63.	Renting of machinery and equipment	Renting of machinery and equipment	Renting of machinery and equipment	51
64.	Community, Social & personal services	Community, Social & personal services	Community, Social & personal services	52
65.	Other services	Other services	Other services	53
66.	Public administration & defence	Public administration & defence	Public administration & defence	54

**Table A2: Aggregation Scheme for Products**

S. No.	Products	Aggregation scheme for 64 products	Aggregation scheme for 53 products	S. No.
1.	Paddy	Paddy	Apples	1
2.	Wheat	Wheat		
3.	Coarse cereals	Other crops		
4.	Gram			
5.	Arhar			
6.	Other pulses			
7.	Groundnut			
8.	Rapeseed and mustard			
9.	Other oil seeds			
10.	Kapas			
11.	jute, hemp and mesta			
12.	Sugarcane		Agriculture (other than Apples)	2
13.	Coconut			
14.	Tobacco			
15.	Tea			
16.	Coffee			
17.	Rubber			
18.	Fruits	Fruits		
19.	Vegetables	Vegetables		
20.	Other food crops	Other crops		
21.	Milk	Milk	Livestock	3
22.	Wool	Other livestock products		
23.	Egg and poultry			
24.	Other livestock products			
25.	Industry Wood	Forestry	Forestry	4
26.	Firewood			
27.	Other forestry products			
28.	Inland Fish	Fishing	Fishing	5
29.	Marine Fish			
30.	Coal and Lignite			6

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

S. No.	Products	Aggregation scheme for 64 products	Aggregation scheme for 53 products	S. No.
31.	Natural Gas	Limestone and other minor minerals	Limestone and other minor minerals	
32.	Crude petroleum			
33.	Iron ore			
34.	Manganese ore			
35.	Bauxite			
36.	Copper ore			
37.	Other Metallic minerals			
38.	Limestone			
39.	Mica			
40.	Other non-metallic minerals			
41.	Processed poultry meat & poultry meat products	Processed meat & meat products	Processed meat, fish, fruit, vegetables, oils and fats	7
42.	Processed other meat & meat products			
43.	Processed fish & fish products			
44.	Processed fruits & Processed Vegetables	Processed fruits & Processed Vegetables		
45.	Dairy products	Dairy products	Dairy products	8
46.	Edible Oils and Fats	Miscellaneous food products	Other food products	10
47.	Grain Mill products, starch and starch products	Grain Mill products, starch and starch products	Grain mill products, etc. and animal feeds	9
48.	Sugar	Sugar	Other food products	10
49.	Bread & Bakery products	Bread & Bakery products		
50.	Miscellaneous food products	Miscellaneous food products		
51.	Alcoholic beverages	Beverages	Beverages	11
52.	Non-alcoholic beverages			
53.	Tea processed			
54.	Coffee processed			
55.	Tobacco Products	Tobacco Products	Tobacco Products	12
56.	Cotton Yarn and Cotton Textiles	Textile Products	Textile Products	13
57.	Synthetic yarn and synthetic textiles			
58.	Wool yarn and woollen textiles			
59.	Silk yarn and silk textiles			
60.	Carpet weaving			
61.	Readymade garments	Readymade garments	Readymade garments	14
62.	Misc. textile products	Textile Products	Textile Products	13
63.	Leather footwear	Leather and leather products except footwear	Leather and leather products except footwear	15
64.	Leather and leather products except footwear			
65.	Wood and wood products except furniture	Wood and wood products except furniture	Wood and wood products except furniture	26
66.	Paper, Paper products and newsprint	Paper, Paper products and newsprint	Paper, Paper products and newsprint	27
67.	Publishing, printing and allied activities	Publishing, printing and allied activities	Publishing & printing	28
68.	Furniture & Fixtures	Furniture & Fixtures	Furniture & Fixtures	29
69.	Rubber products	Rubber and plastic products	Rubber and plastic products	24
70.	Plastic products			
71.	Petroleum products			21



**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

S. No.	Products	Aggregation scheme for 64 products	Aggregation scheme for 53 products	S. No.
72.	Coal tar products	Petroleum and coal tar products	Petroleum and coal tar products	
73.	Inorganic chemicals	Inorganic and Organic Chemicals	Inorganic and Organic Chemicals	22
74.	Organic chemicals			
75.	Fertilizers	Fertilizers		
76.	Pesticides	Pesticides		
77.	Paints, varnishes and lacquers	Other chemical products		
78.	Drugs and medicine	Drugs and medicine	Drugs and medicine	23
79.	Soaps, cosmetics and glycerin	Other chemical products	Inorganic and Organic Chemicals	22
80.	Synthetic fibres, resin			
81.	Other chemicals and chemical products			
82.	Cement	Cement	Other non-metallic mineral products	25
83.	Non-metallic mineral products	Metal and metal products	Metal and metal products	16
84.	Iron and steel Ferro alloys			
85.	Iron and steel casting and forging			
86.	Iron and steel foundries			
87.	Non-ferrous basic metals (including alloys)			
88.	Hand tools, hardware			
89.	Miscellaneous metal products			
90.	Tractors and other agricultural implements	Non-Electrical Machinery and Equipment	Machinery and equipment n.e.c.	19
91.	Industrial machinery for food and textile industry			
92.	Industrial machinery (except food and textile)			
93.	Machine tools			
94.	Other non-electrical machinery			
95.	Electrical industrial machinery	Electrical Machinery and Equipment	Electrical equipment	18
96.	Electrical cables, wires			
97.	Batteries			
98.	Electrical appliances			
99.	Communication equipment			
100.	Other electrical machinery			
101.	Electronic equipment including T.V	Electronic equipment including T.V	Electronic equipment	17
102.	Medical precision, optical instrument	Miscellaneous manufacturing	Other manufacturing	30
103.	Watches and clocks	Miscellaneous manufacturing		
104.	Ships and boats	Transport equipment	Transport equipment	20
105.	Rail equipment			
106.	Motor vehicles			
107.	Motor cycles and scooters			
108.	Bicycles, cycle-rickshaw			
109.	Aircrafts & Spacecrafts			
110.	Other transport equipment			
111.	Gems & jewellery	Miscellaneous manufacturing	Other manufacturing	30
112.	Miscellaneous manufacturing	Miscellaneous manufacturing		

**Input-Output Transactions Table, 2017-18, Himachal Pradesh**

S. No.	Products	Aggregation scheme for 64 products	Aggregation scheme for 53 products	S. No.
113.	Construction and construction services	Construction and construction services	Construction	32
114.	Electricity	Electricity	Electricity	33
115.	Gas	Gas	Gas	34
116.	Water Supply	Water Supply	Water Supply	35
117.	Trade	Trade	Trade	36
118.	Repair & Maintenance of Motor Vehicle	Repair & Maintenance of Motor Vehicle	Repair and installation of machinery and equipment	31
119.	Hotels & Restaurant	Hotels & Restaurant	Hotels & Restaurant	37
120.	Railway Transport	Railway Transport	Railway Transport	38
121.	Land transport	Land transport	Land transport	39
122.	Air transport	Air transport	Air transport	40
123.	Water Transport	Supportive and Auxiliary transport activities	Supportive and Auxiliary transport activities	41
124.	Supportive and Auxiliary transport activities			
125.	Storage and warehousing	Storage and warehousing	Storage and warehousing	42
126.	Communication services	Communication services	Communication services	43
127.	Financial services	Financial and Insurance services	Financial, Legal and Insurance services	44
128.	Insurance services			
129.	Ownership of dwellings	Ownership of dwellings	Ownership of dwellings	45
130.	Real estate services	Real estate services	Real estate services	50
131.	Renting of machinery & equipment	Renting of machinery & equipment	Renting of machinery & equipment	51
132.	Research & Development Services	Business services	Business services	49
133.	Legal services			
134.	Other Business services			
135.	Computer related services	Computer related services	Computer related services	48
136.	Public administration and defence	Public administration and defence	Public administration and defence	54
137.	Education services	Education services	Education	46
138.	Human health and social care services	Human health and social care services	Health	47
139.	Community, social and personal services	Community, social and personal services	Community, social and personal services	52
140.	Recreation, entertainment and radio & TV broadcasting and other services	Recreation, entertainment and radio & TV broadcasting and other services	Other services	53





SINCE  
**1956**  
QUALITY. RELEVANCE. IMPACT

**NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH**  
NCAER India Centre, 11 Indraprastha Estate, New Delhi 110 002, India  
Tel: +91-11-2345 2657, 6120 2698, Fax: +91-11-2337 0164  
Email: [info@ncaer.org](mailto:info@ncaer.org) [www.ncaer.org](http://www.ncaer.org)