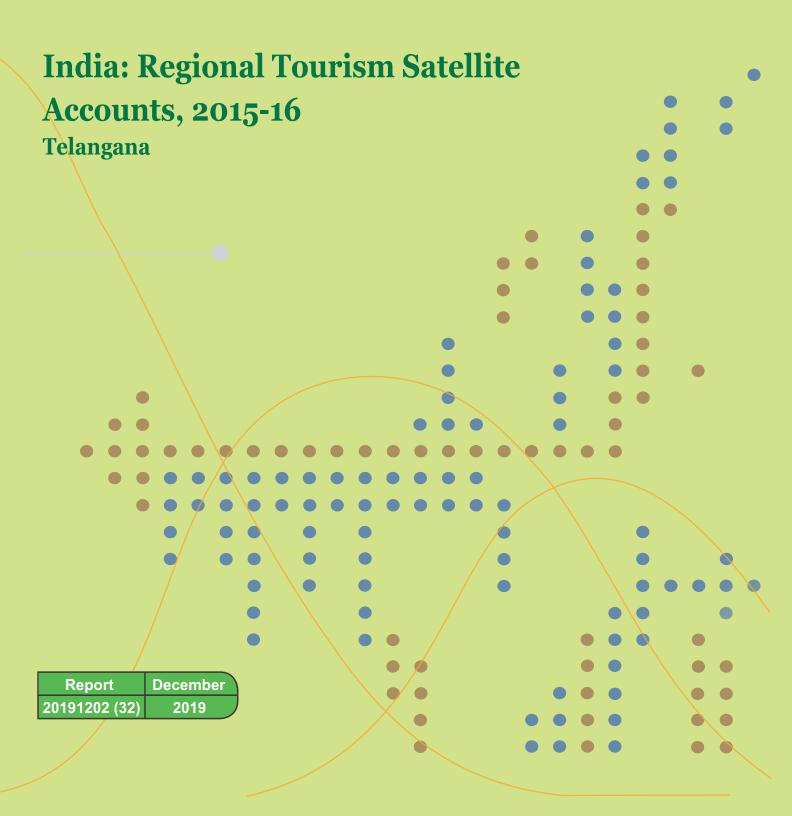


National Council of Applied Economic Research



# India: Regional Tourism Satellite Accounts, 2015-16

Telangana

*Study sponsored by* The Ministry of Tourism, Government of India

December 2019



NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH 11 Indraprastha Estate, New Delhi 110 002, India NCAER | Quality . Relevance . Impact NCAER is grateful to the Ministry of Tourism, Government of India, for nominated financial support for this research.

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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

NCAER has been working closely with India's Union Ministry of Tourism for nearly two decades on India's Tourism Satellite Accounts. Having released the Third National TSA Report for 2015-16 in November 2018, NCAER has now prepared reports on Regional TSAs (RTSAs) and State TSAs for 2015-16. This is the second round of state TSAs, following the first round in 2009-10. Notwithstanding the many data limitations at the state level, India is one of the few countries across the world to have prepared TSAs at the sub-national level.

The reports delineate the direct as well as indirect contribution of tourism to the state economy in addition to the detailed tourism profile of the states. The RTSAs have been prepared in accordance with the United Nations World Tourism Organisation (UNWTO) framework, popularly known as the Recommended Methodological Framework or RMF:TSA 2008. The tourism statistics available are largely physical and non-monetary in nature, but their value needs to be quantified for estimation of the share of tourism in economic aggregates like GDP and employment. A good TSA estimates these values by using the macro-economic framework of the System of National Accounts (SNA) by integrating tourism statistics into them and measuring the linkages between the demand and supply for goods and services related to tourism.

The challenges of the unequal geographical distribution of tourism activity within a nation, the varied tourism destinations offered by different states, and different development priorities of state administrations have necessitated understanding tourism as a location-specific economic activity. The UNWTO encourages countries to develop sub-national or regional TSAs to account for the decentralisation of political power, for the multi-faceted nature of tourism activities across locations, for the growing interest of tourism-related local businesses in learning about the inter-relation of their activity with others, and for the management of state-specific resources. These NCAER RTSAs have sought to address these issues by upgrading the data we have used for measuring economic impact at the sub-regional level.

I would like to take this opportunity to thank the agencies that provided the underlying data for the RTSA 2015-16, especially the National Sample Survey Office for their Domestic Tourism Survey, the Indian Statistical Institute for their International Passenger Survey, and the Central Statistics Office for National Accounts Statistics. NCAER is particularly grateful to nodal officers at the Ministry of Tourism, including Shri S.M. Mahajan, former Additional Director-General; Shri P.C. Cyriac, Additional Director-General; Ms Mini Prasannakumar, former Director; Shri Shailesh Kumar, Deputy Director; Ms Anshika Bhatnagar, Assistant Director; and Shri S.K. Mohanta, DPA, for the valuable inputs and administrative support for preparing the TSA. This work would not have been possible without their wholehearted cooperation.

For their excellent work and commitment to this research, I would like to thank members of the NCAER TSA research team led by Dr Poonam Munjal, Senior Fellow, and including Senior Fellow Mr K.A. Siddiqui, Fellow Mr P.K. Ghosh, Associate Fellow Dr Nijara Deka, Senior Research Analysts Dr Palash Baruah and Mr Asrar Alam, and Research Associates Ms Sundus Usmani, Ms Sanjana Chhabra, Ms Gunjan Pal, and Mr Rahat Hasan Khan. They all deserve the highest praise for the care with which the State TSAs have been put together.

New Delhi December 18, 2019 Shekhar Shah Director General NCAER

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# **Abbreviations and Acronyms**

### Units used in the Report

1 crore = 10 million 1 lakh = 100 thousand

CES	Consumer Expenditure Survey	
CSO	Central Statistical Office	
DTS	Domestic Tourism Survey	
EUS	Employment and Unemployment Survey	
FISIM	Financial Intermediation Services Indirectly Measured	
GCE/GFCE	Government Final Consumption Expenditure	
GDP	Gross Domestic Product	
GSDP	Gross State Domestic Product	
GVA	Gross Value Added	
GVATI	Gross Value Added of Tourism Industries	
IPS	International Passenger Survey	
IRTS	International Recommendations on Tourism Statistics	
ISI	Indian Statistical Institute	
ISIC	International Standard Industrial Classification (United Nations)	
MPCE	Monthly per capita consumer expenditure	
MRP	Mixed reference period	
NAS	National Accounts Statistics	
NCAER	National Council of Applied Economic Research	
NIT	Net Indirect tax	
NPISH	Non-Profit Institutions Serving Households	
NRI	Non-Resident Indian	
NSSO	National Sample Survey Office	
PFCE	Private Final Consumption Expenditure	
PIO	People of Indian Origin	
PP	Purchasers price	
RMF	Recommended Methodological Framework	
SUT	Supply and Use Tables	
TDGDP	Tourism Direct Gross Domestic Product	
TDGVA	Tourism Direct Gross Value Added	
TSA:RMF	Tourism Satellite Account: Recommended Methodological Framework	
ТТМ	Trade and transport margins	
UN	United Nations	
UNWTO	United Nations World Tourism Organisation	
VAT	Value Added Tax	
	World Tourism Organisation	

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# I. INTRODUCTION

Tourism Satellite Account is a framework designed to measure goods and services associated with tourism, according to internationally agreed standards, concepts, classifications and definitions Tourism is a social, cultural and economic phenomenon related to the movement of people to places outside their usual place of residence. While recreation is the usual motive of tourism activity but it is not restricted to recreation only and expanses to other motives like business, health, religious, educational and in recent times, even shopping. Owing to the rapidly increasing tourism activities across the globe and the significantly high foreign exchange earnings from such tourism activities, it has become a task of primary preference for nations to measure tourism statistics (both monetary and nonmonetary).

The importance of measuring tourism statistics also emerges from the fact that tourism induces economic activity either directly or indirectly, sometimes in places beyond those visited. These could be in terms of economic output or in terms of employment generation, besides other social and infrastructural dimensions. The availability of reliable statistics on tourism sector and analysis based on them can be of utmost importance to the policymakers for decision making.

The United Nations World Tourism Organisation (UNWTO) recommends to put the relevant tourism statistics in an accounting framework so as to integrate these statistics with the System of National Accounts and to show the linkages between demand and supply for goods and services in respect of Tourism. This accounting framework is called the Tourism Satellite Account (TSA). By definition, it is a framework designed to measure goods and services associated with tourism, according to internationally agreed standards. concepts, classifications and definitions. It helps in assessing the size and contribution of tourism to the economy.

While such framework is available for the preparation of national level TSA, there is a void in the availability of such framework for preparing the regional or subnational level TSAs. Nonetheless, regional estimation of tourism statistics and bringing them together in a TSA framework has been arousing lot of interest globally and is increasingly becoming popular. This has also been recognized by UNWTO, as a result of which it has taken various initiatives to develop the regional or sub-national TSA.

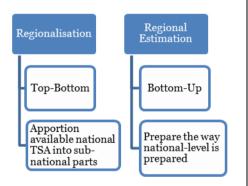
In a paper published by UNWTO Statistics and Tourism Satellite Account (STSA) in October 2013, titled "Regional Tourism Satellite Account", as one of the STSA Issue Paper Series, two distinct conceptual and methodological approaches to prepare regional TSA, have been discussed (Figure I.1). These are the following

#### Regionalisation

Also called the interregional approach or top-bottom approach, regionalization attempts to apportion the available national TSA into its sub-national parts or regions using different indicators and relevant ratios. Therefore, this approach is common to all the regions of the national territory and is based on and intimately linked to the System of National Accounts. However, this approach relies on the existence of a National TSA and the availability in each region of uniform tourism information for each of the tables and aggregates to be regionalized.

This approach has been used by many countries like Canada (Barber-Dueck et al., 2003); Australia (Van Ho et al. 2008), and the northern European countries of Denmark, Finland and Norway (Zhang 2005, Konttinen 2006, Braendvang et al. 2001). These countries have developed RTSAs using the national TSA or national accounts and the input-output system, consisting essentially of supply and use tables (SUT).

# Figure I.1: Two approaches to prepare RTSA



#### **Regional Estimation**

This approach, also called bottom-top approach, entails the development of a specific TSA for any given region, in which specific situations and differentials may also be identified for important sub-regional territories, provided there is sufficient information on them. Hence, this approach helps in preparing the regional TSA (RTSA), just as one would prepare the national-level TSA.

This approach has been used by the various regions of Spain, most recent been the one presented in 2010 for the Madrid region (Instituto de Estadística-C. Madrid (2011)). This approach has also been used by others like Wales in the United Kingdom (Jones et al. 2010) and Flanders-Brussels (Weekers, 2012). Such TSA's are developed using the SUT and other statistical and accounting information for the specific region concerned, reproducing the basic TSA: RMF scheme on a regional scale, with the necessary adjustments required for conceptual and statistical reasons.

However, due to the lack of a common conceptual approach across the countries, there continues to be a difficulty in making RTSA framework comparable with each other or with the national framework. Nonetheless, according to TSA: RMF 2008, there are various reasons for encouraging discussions on the preparation of RTSAs. Some of these reasons are:

- There is a worldwide trend towards a certain degree of decentralization of political power and decentralized management of national resources in federal states, regions, municipalities, etc. In order to allocate and monitor these resources effectively, more and better integrated regional and local information are required.
- The tourism activities are multifaceted in nature and can potentially benefit rural areas that are seeking to diversify.
- The unequal geographical distribution and characteristics of tourism activity within the

national territory, from the standpoint of both demand and supply, lead to additional requirements for tourism statistics at the various territorial levels.

- There is a growing interest of tourism-related businesses in learning about the interrelation of their activity with others and its main determinants and seasonal cycles.
- There is a great necessity of improving the allocation of resources in national and local economies, which can only be achieved by upgrading quantitative references and measuring economic impacts.

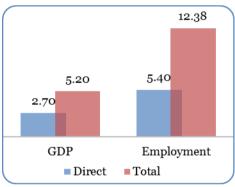
### **RTSAs for states in India**

In India, preparation of a national level TSA itself is a voluminous and expensive task as it requires primary surveys to be undertaken to capture the relevant information from Domestic Tourists, Inbound Tourists as well as Outbound Tourists. These are collected through two different surveys – household survey called "Domestic Tourism in India" and international tourists' survey called "International Passenger Survey", details of which will be presented in later sections.

So far, three national level TSAs have been prepared for India. The first TSA was for the reference year 2002-03, second for 2009-10 and the third TSA for 2015-16. With regard to the RTSAs, the data for 2009-10 were used to make the first attempt to prepare the TSAs for all the states of India for the same year. The preparation of TSAs for all states was accomplished in different phases. In its pilot phase and as part of the Second TSA-2009-10, TSAs for two states - Madhya Pradesh and Kerala - were prepared. Following this, TSAs of the remaining 33 states and UTs were prepared, using the same data, in three phases under the "3-year integrated study for the preparation of TSAs for all states and UTs of India". All of these studies, including all the three national level TSAs and all state TSAs were commissioned to National Council of Applied Economic Research

First sub-national TSAs for Indian states and UTs were prepared for the year 2009-10, along with India's Second national-level TSA

#### Figure I.2: Contribution of Tourism to national economy (%)



Source: Third Tourism Satellite Account for India – 2015-16 (NCAER) by the Ministry of Tourism (MoT).

Now, continuing with the practice of preparing the TSAs at national and state level in regular intervals, MoT has entrusted NCAER again to prepare the country's Third TSA along with the TSAs for all the states and UTs. As part of this study, the present report presents the TSA for the state of Telangana and the key outcome is the Tourism sector's contribution in the total GDP and employment of the state.

## Contribution of Tourism to national economy

At All-India level, the Third TSA reveals that tourism accounts for 2.70 percent to the GDP as its direct share. With indirect share added, the total contribution works out to be 5.20 percent. With respect to employment, the direct share is 5.40 percent which the total share, including indirect component, is 12.38 percent.

## Structure of the Report

The present chapter on Introduction dealt with the overview of Tourism Satellite Account and its methodology widely adopted for regional accounts across the countries. Also the chapter gave the background of the regional TSAs in India.

Chapter II presents a snapshot of the state with respect to its geographies, demographic, economic and social profile. Other indicators which are of interest with tourism perspective like infrastructure, cultural aspects and main tourism destinations are also discussed.

Chapter III talks briefly about the various data sources that were used in the preparation of the state TSA.

Chapter IV provides the framework of the recommended TSA tables and tourism aggregates that have been included in this Report. The text for this section is mainly drawn from IRTS, 2008 and TSA: RMF 2008.

Chapter V presents the TSA tables for the year 2015-16. This Section also includes the tourism aggregates that have been derived from the TSA tables.

Chapter VI presents the key findings of TSA, 2009-10.

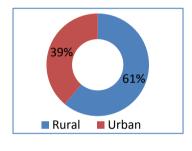
Annexure I presents the key challenges faced in the preparation of state-level TSA. Annexure II talks briefly about the international study visit undertaken by the team to Australia to exchange the ideas related to methodology involved in preparing regional TSAs.

The Glossary includes the conceptual issues and operational definitions of tourism, its types, forms, dimensions and related issues.

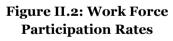
# **II. STATE PROFILE**

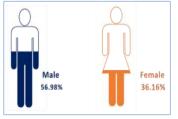


**Figure II.1: Population Breakup** 



Source: Census of India





Source: Census of India

- **Capital:** •••
- Hyderabad

Southern India

1,12,077 sq. Km

- No. of Districts: \*
- \* Location:
- \* Land Area:
- \* Climate: **Terrain:**

 $\div$ 

**Tropical moderate Coastal** Plateau and Hilly

31

**Major Rivers** Krishna and Godavari

Telangana is a Southern coastal state of India and it state borders with Maharashtra. shares its Chhattisgarh, Karnataka and Andhra Pradesh.

#### **II.1. Demographics and Social Profile**

Telangana has a population of 350.04 lakhs (As per Census 2011) and 136.09 people reside in urban areas and remaining 213.95 Lakhs in the rural areas. Thus, 61 percent of the total population resides in rural areas while 39 percent resides in urban areas which is higher than the all India level of urban population at about 31 percent (Figure II.1).

The population density of the state is 307 per Sq. Km which is lower than the national average of 368 per Sq. Km. The literacy rate is 66.46 percent in the state. The overall sex ratio is 985 females per 1000 males. The total work participation in the state is 46.61(Undivided Andhra Pradesh) percent which is higher than the national average of 39.8 percent. The workforce participation rate by gender is presented in Figure II.2.

The state is the newest state formed in India and has a very rich and old culture of Telugu community with a rich heritage of the Telugu people and the Nizams of Hyderabad who ruled the region. The major language in the state is Telugu.

#### II.2. Economic Profile

The macro indicators of the state in terms of constant (2011-12) price for the year 2016-17 are showing a positive trend. The GSDP was Rs. 497957 Crore; the economic growth rate was 10.2 percent (Figure II.3). The net state domestic product was Rs. 445124 Crore. The per capita income was Rs. 118684.

The state is one of the prosperous southern states and because of the recent bifurcation of the Larger state of Andhra Pradesh and after the bifurcation the state has landed up with huge natural and services resources which have made the state liberal in infrastructure and economic spending which have increased the standard of living of the people of the state. The state is very industrialized but the majority of the population of the state is dependent on agriculture and livestock as their major source of income. The main agricultural products are Rice, Tobacco, Maize, cotton, oilseeds, Sugarcane, Mango, Horticulture of flowers like roses and livestock like Cattle, Poultry. The state has many manufacturing industries like Textile, Pharma, Biotechnology, cement, Machine parts, Automobile, Healthcare and many industries. The state has a good industrial base and is still increasing because of industrial friendly policies. The city of Hyderabad is one of the major IT and startup hubs of the country which contribute significantly to the economy. The state has a good educational base and many premium institutes which provide a huge talent pool for the economy. The state is also doing very good in the tourism sector and has been growing constantly.

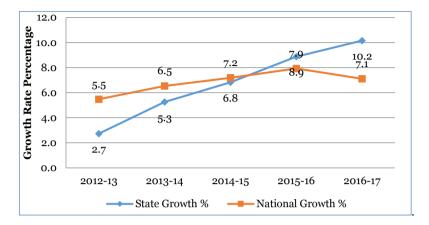


Figure II.3: Growth in Gross State Domestic Product (Constant Prices)

Source: Central Statistical Office

#### Box II.1: Infrastructural indicators



## II.3. Infrastructure and Connectivity

The state has well-maintained highways and roads which provide very good connectivity throughout the state and have good physical and digital connectivity. The city of Hyderabad has metro rail connectivity. The city of Hyderabad has connectivity to most of the major cities in the country. The city of Warangal and Karimnagar will be developed as a smart city. The state has good performance in terms of cleanliness.

Some of the key infrastructural indicators are presented in Box II.1.

The trend of domestic as well as foreign tourist visits in the state is presented in Figure II.4.

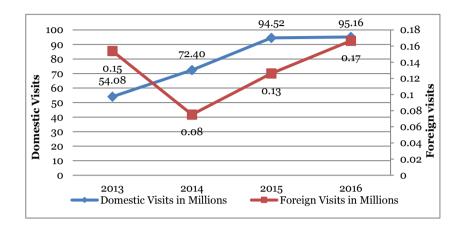


Figure II.4: Domestic and Foreign Tourist Visits in Millions

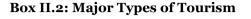
Source: India Tourism Statistics, Ministry of Tourism

#### II.4. Tourist Attractions

The state because of its varied and rich heritage have many places and monuments which can be visited like the Famous Charminar of Hyderabad, Golconda Fort, Qutb Shahi Tombs, Kakatiya Kala Thoranam, Bhongir Fort, Paigah Tombs, Nagunur Fort, Chowmahalla Palace, Falaknuma Palace, Salarjung Museum, Warangal Fort, Buddha Statue in Hussain Sagar lake.

The state have many Hindu and Muslim religious places which accounts for the religious tourism like the Birla Mandir, Jagannath Temple, Balkampet Yellamma Temple, St.Mary's Church, Mecca Masjid, Swayambhu Sri Lakshmi Narasimha Swamy Kshetram, Bhadrachalam, Nagunur Temple, Manyamkonda Sri Lakshmi Venkateshwara Swamy Temple, Medak Church, Jain Mandir, Dichpally Ramalayam, Thousand Pillars Temple and many others.

The various festivals celebrated in the state are Bathukamma, Dussehra, Bonalu, Diwali, Ramzan, Sammakka Saarakka Jaathara, Ugadi, New Year,





Eid, Holi, Akshaya Tritiya. And many more.

The state has a rich art and culture which include the Cherival Scroll Paintings, Nirmal Paintings, Batik The Paintings, Dokra Metal Crafts, Bidri Craft, Pochampalli Handlooms, Gadwal Handlooms, Pearls, Banjara Needle Crafts, Narvanapet Handlooms, Nirmal Toys. The main attire of the people is shirt and lungi, Suit and Saree. The mouthwatering cuisine of the state includes Dum Ka Birvani, Qubani Ka Meetha, Hyderabadi special biryani, Irani Chai, Sakinaalu, Sarva Pind.

The other sites that are a tourist attraction are the Hussain Sagar lake in Hyderabad and Secundrabad, Kuntala Waterfall, Bogata Waterfall, Savatula Gundam Waterfalls, Nagarjuna Sagar, and many more which are a good picnic spot for the tourists and local visitors. The adventure sports include rock climbing, trekking, Speed boating and many other. The state is one of the business hubs of India and has world-class medical and healthcare infrastructure along with many research and educational institutes which provides for Business, Health, and educational tourism.

Telangana has 3 national parks of a total area of 19.62 Sq. Km and 9 wildlife sanctuaries present. The state has a good wildlife present and therefore there are rare exotic and native species of birds, mammals, snakes, amphibians and other flora and fauna. Kawal is a dense forest region, which is home to endangered tigers. And the presence of so many wildlife protected area presents an opportunity for wildlife and natural tourism

# **III. DATA SOURCES**

Domestic Tourism Survey, 2014-15, conducted by NSSO, is the main source of Domestic Tourism expenditure, a key statistic required for TSA Preparation of an RTSA for a state requires the following:

- Statistics on expenditures made by visitors on different products within the state.
- Statistics on supplies from the domestic production and imports (which include from other states) to meet these purchases of tourists.
- Confrontation of the two sets of statistics in the national accounting framework through the supply and use tables so that supplies from domestic production and imports match with the expenditures made by tourists.
- Estimate the value added out of the domestic production that is involved in supplying the products to tourists' purchases.
- Statistics on employment in tourism industries.

The reference year for the Third national-level TSA and the states RTSAs is 2015-16. Accordingly, to obtain the statistics listed above, the important data sources are the following:

- Domestic Tourism Survey conducted by NSSO in 2014-15.
- International Passenger Survey conducted by Indian Statistical Institute (ISI), Kolkata in 2015-16
- Employment-Unemployment Survey, NSSO, 2011-12
- Annual Employment-Unemployment Survey (Labour Bureau), 2015-16
- Consumer Expenditure Survey of NSSO, 2011-12
- Household Consumption on Durable Goods and Services, NSSO, 2014-15
- State Accounts by State Department of Economics and Statistics, 2012.
- Supply and Use Table (Central Statistics Office), 2012-13

DTS 2014-15 covered households which had at least one member who performed an overnight trip of the following criteria



#### III.1. Domestic Tourism Survey (DTS) – 2014-15

The first Domestic Tourism survey was conducted by NCAER in 2002-03, which was used in the preparation of India's first TSA. For the second TSA, National Sample Survey Office (NSSO) conducted its first comprehensive survey on domestic tourism, called Domestic Tourism Survey, during the period July 2008 to June 2009. This was an all-India household survey and was carried out as part of NSSO's 65th Round of sample surveys.

Later during the period July 2014 to June 2015, NSSO carried out the similar survey on Domestic Tourism, in its 72nd round of survey. The purpose of the survey was primarily to provide requisite tourism related estimates for preparing the national as well as state-level TSAs.

As per the requirement of TSA, focus of the survey was on capturing the details of domestic overnight trips. Information on household characteristics, which are the important determinants of tourism characteristics, such as household size, principal industry, principal occupation, household type, religion, social group, household consumption expenditure, particulars of overnight trips completed during the reference period and expenditure incurred by the household on domestic tourism were Regarding data captured. on particulars of expenditure, break-up of expenditure by various components of accommodation; food and drink; transport; shopping; recreation etc. were collected. Besides, some information on same-day trips was also captured.

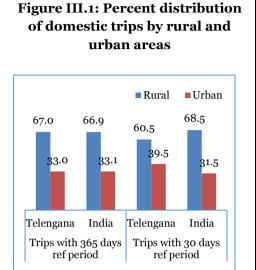
A stratified multi-stage design was adopted for this survey. The first stage units (FSU) were the census villages in the rural areas and Urban Frame Survey (UFS) blocks in the urban areas. The ultimate stage units (USU) were households in both rural and urban areas. A total of 8001 villages in rural India and 6061 urban blocks in urban India were surveyed after selecting by Probability Proportional to Size with Replacement (PPSWR). In all, 79497 households from rural and 60191 from urban India were surveyed.

The households selected for the survey were those who met at least one of the following criteria:

- Have at least one member who performed overnight trip during last 365 days for the following leading purposes:
  - Health & medical
  - Holidaying, leisure & recreation
  - Shopping
- Have at least one member who performed overnight trip during last 30 days for the following leading purposes:
  - Business
  - Social
  - Religious & pilgrimage
  - Education & training
  - Others

The survey estimated total number of households in India to be 25.4 crore, of which 36.3 percent of the households reported at least one overnight trip. Note that this implies that 36.3 percent of the households reported at least one overnight trip with leading purposes holidaying, leisure and recreation; health & medical and shopping completed during last 365 days and/or business, social, religious & pilgrimage, education & training and others completed during last 30 days. This proportion is almost the same in rural and urban areas at 36.6 per cent and 35.7 percent respectively.

It may be noted that information on trips are collected differently for different leading purposes of trips, that is, reference period for some trips is 365 days and for others is 30 days. Hence, survey captures all the trip characteristics for two sets of trips – one with 365 days reference period and other with 30 days reference period. Even the total number of trips



Source: DTS 2014-15 and NCAER computation

is presented separately for these two sets of trips.

#### Key DTS findings for Telangana

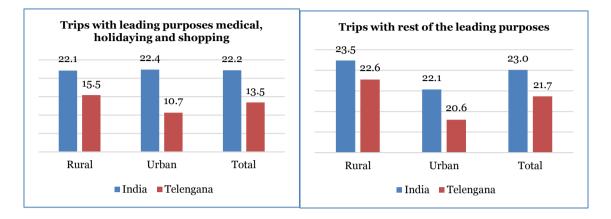
In Telangana, the sample number of households was 3679, comprising 1919 from rural areas and 1760 from urban areas. Number of sample households reporting overnight visitors were 2887. In other words, 78.5 per cent of the sample households reported overnight visitors.

The survey estimates the total number of households in Telangana to be 86.8 lakh. Of these, 25.9 lakh households (or 29.8 percent) reported having overnight visitors. The rural-urban breakup suggests that of the total visitor reporting households, 62.1 percent belonged to the rural areas.

About 67.0 per cent of the overnight trips with reference period 365 days (with purposes medical, holidaying and shopping) and 60.5 per cent with reference period 30 days (with rest of the purposes), originated from rural areas of the state (Figure III.1)

The intensity of domestic tourism in each state is measured by the number of trips per 100 household during the reference period. With leading purposes medical, holidaying and shopping (with reference period of 365 days), a lower number of trips per 100 households originate from Telangana than the national average number of trips per 100 households. This is true for both rural and urban areas. Among all the states and UTs of India, Telangana ranks 34<sup>th</sup> position with respect to tourism intensity for trips with leading purposes medical, holidaying and shopping.

On the other hand, the tourism intensity for the rest of the leading purposes (with reference period of 30 days) is less than the national average. With regard to tourism intensity for these trips, Telangana secures 13<sup>th</sup> position among all states and UTs of India (Figure III.2)



#### Figure III.2: Average Number of domestic Tips per Hundred Households

Source: DTS 2014-15 and NCAER computation

The distribution of overnight trips by leading purposes-medical, holidaying and shopping - reveal that people living in Telengana travel mostly for medical. While at all-India level, among these three purposes, only 65.1 percent travel for medical purpose, in Telengana this proportion is 73.6 percent, followed by 26.3 percent for holidaying.

The distribution of trips by rest of the purposes is not very different in Telengana from that in India. For both Telengana and all-India, most of the trips undertaken are for social purpose, accounting for 89.5 percent in Telengana and 85.9 percent in India, as a whole (Figure III.3).

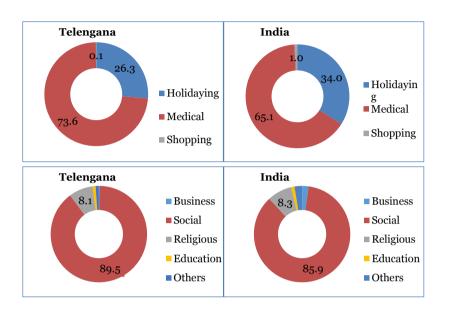


Figure III.3: Distribution of domestic Trips by Leading Purposes

Source: DTS 2014-15 and NCAER computation

Most of the overnight trips, across all purposes, were undertaken within the state. This is true for almost all the states and hence is reflected in national average too. The following table presents the percent trips undertaken within the state, compared with all-India average (Table III.1).

	Telangana	All-India average
Reference Period 365 days		
Holidaying	79.7	65.9
Medical	98.2	91.8
Shopping	100.0	81.2
Reference Period 30 days		
Business	88.8	70.9
Social	98.5	93.1
Religious	95.5	75
Education	92.9	76.2
Others	57.7	84

#### Table III.1: Percent trips undertaken within the state

Source: DTS 2014 and NCAER computation

Among the trips undertaken from other states of India, the majority are undertaken from Maharashtra, Uttar Pradesh and Rajasthan.

#### Use of DTS data for TSA

The DTS data that were used in the preparation of TSA for Andhra Pradesh were the expenditure data by items of expenditure and by purpose of travel. These expenditures were collected for the tourists who travelled within the state providing information on Domestic Tourism Expenditure of the state.

Also these data were used to arrive at the expenditures of those tourists who belonged to other states of India but whose main destination was Andhra Pradesh. This formed one part of Inbound Tourism Expenditure, the other part being expenditure of foreign tourists that visit the state, which was obtained from the International Passenger Survey.

- Types of tourists covered in IPS:
- 1. Non-Resident Indians (NRIs)
- 2.Persons of Indian origin (PIOs)
- 3.Overseas citizens of India (OCIs)
- 4.Other Foreigners

## III.2. International Passenger Survey (IPS) – 2015-16

MoT commissioned the Indian Statistical Institute (ISI), Kolkata to conduct the International Passenger Survey (IPS) for the year 2015-16. The survey targeted the following three categories of International tourists, namely.

- Foreign nationals visiting India,
- Non-Resident Indians visiting India, and
- Indian Residents travelling abroad.

A multistage sampling design was adopted to conduct the survey at each of the airports and land check posts. At the first stage, six airports, namely Bangalore, Chennai, Dabolim (Goa), Delhi, Kolkata and Mumbai were selected purposely keeping in mind the different geographical zones of India.

Among the remaining international airports, four other airports namely, Amritsar, Cochin, Hyderabad and Pune, were selected using sampling scheme with probability proportional to foreigners departure volume in the year 2012 as its size measure.

Among the land posts, Haridaspur was selected purposely based on the experience from the previous IPS. Among the remaining land check posts, survey could be conducted at only two check posts, namely Changrabandha and Mahadipur.

### Use of IPS data for TSA

The data from IPS can be used to obtain the expenditure incurred by the foreign tourists in India, by items of expenditure and by types of tourists, namely NRIs, PIOs, OCIs and other foreign tourists. These data are used in the preparation of TSA at national level.

For state-level TSA, the information on expenditure incurred in the state of destination could not be derived directly from the data. However, these are imputed using the expenditure incurred in the last places of night halt (LPNH). The respondents were asked to name these places, which are locations in the various states. The detailed methodology is discussed in the following chapter on Methodology.

For outbound tourism. Indian residents travelling were canvassed through abroad a separate questionnaire focusing on Outbound Tourism. The data on pre-trip expenditure incurred by these tourists, before the actual outbound trip was undertaken, were collected. The survey provides information on the respondent's state of residence; hence we can obtain the data on number of tourists travelling abroad from each state and on their pretrip expenditure which is assumed to have been largely incurred in the state of reference. These expenditures are obtained by the items of expenditure and by purpose of travel.

## Key IPS findings for Telangana

The estimated total number of all visitors coming to India is about 83 Lakhs. Estimated total number of outbound Indians is 20.52 Lakhs. The age group 31 -40 years was found to be the modal class for the Foreigners. Modal age group for Outbound passengers was 18 - 30 years.

From Telangana, number of outbound tourists travelling abroad is estimated to be 13.6 Lakhs, which is 6.6 percent of total outbound tourists from India. This places Telangana at 5th position among all the states of India (Figure III.5).

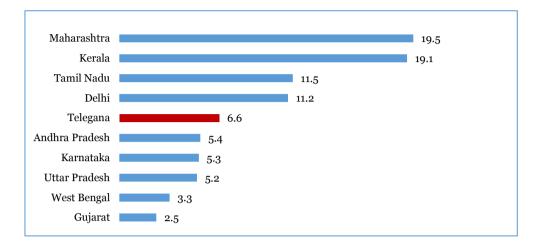


Figure III.4: Percentage share of Top 10 states in total Outbound Tourists

Source: IPS 2015-16 and NCAER computation

The distribution of outbound tourists by age groups reveal that of the total state residents travelling abroad, the majority (52.3 percent) belong to young age of 31 to40 years. This is followed by 23.8 percent of those who belong to 20 to 30 years age group. As compared to this, at all- India level also, most of the outbound tourists travelling are in the age group of 20-30 years constituting 38.9 percent of the total outbound tourist (Figure III.6).

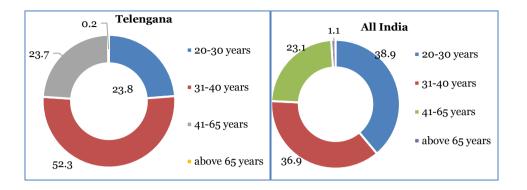


Figure III.5: Distribution of Outbound tourists by age-groups

Source: IPS 2015-16 and NCAER computation

The leading purpose of most of the outbound tourists travelling from Telangana to other countries is business or professional. This is true for residents belonging to both rural and urban areas together. This is true for the distribution observed at all-India level (Figure III.6).

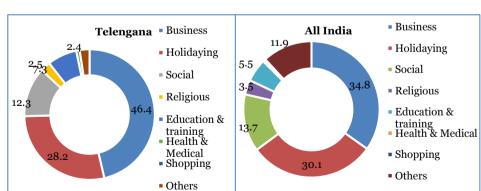


Figure III.6: Distribution of Outbound tourists by leading purpose

Source: IPS 2015-16 and NCAER computation

Three reference periods are used in quinquennial programme of NSSO these surveys

- One year
- One week
- Each day of the week.

Based on these three periods different measures of employment are arrived at.

### III.3. Employment-Unemployment Survey NSSO (EUS) – 2011-12

Employment and employment survey is part of the quinquennial programme of NSSO surveys. The quinquennial EUSs of NSSO aim to measure the extent of 'employment' and 'unemployment' in quantitative terms disaggregated by household and population characteristics. The persons surveyed are classified into various economic activity categories on the basis of the activities pursued by them during certain specified reference periods (Table III.2).

Three reference periods are used in these surveys. These are (i) one year, (ii) one week and (iii) each day of the week. Based on these three periods, three different measures of employment are arrived at, of which the one with 365 days reference period, called workforce according to 'usual status' approach, is widely used.

A stratified multi-stage design was adopted for the 68th round survey. The first stage units (FSU) were the 2001 census villages (Panchayat wards in case of Kerala) in the rural sector and Urban Frame Survey (UFS) blocks in the urban sector. The ultimate stage units (USU) were households in both the sectors.

The number of households surveyed was 1,01,724 (59,700 in rural areas and 42,024 in urban areas) and number of persons surveyed was 4,56,999 (2,80,763 in rural areas and 1,76,236 in urban areas).

#### Key EUS findings for Telangana

For this round, data is not available for Telangana, the Employment Unemployment Survey of NSSO was done in 2011-12 and Telangana was formed in 2015.

#### Use of EUS for TSA

For the TSA tables, the employment data is based on usual activity status in both principal and subsidiary activities. The usual activity status (it is the activity situation in which a person is found during a reference period that relates to the person's participation in economic and non-economic activities) relates to the activity status of a person during the reference period of 365 days preceding the date of survey. The activity status on which a person spent relatively longer time (major time criterion) during the 365 days preceding the date of survey is considered the principal usual activity status of the person.

However, the latest EUS data conducted by NSSO is available for the year 2011-12, whereas the reference year for state RTSA is 2015-16. Hence, we also make use of data on Employment and Unemployment from annual survey conducted by Labour Bureau.

The key employment numbers are generated from the Labour Bureau survey. But since these report employment numbers only till 3-digit level, NSS data are used for further disaggregation.

#### III.4. Annual Employment-Unemployment Survey, Labour Bureau (EUS-LB)

Ministry of Labour Bureau, government of India has been conducting Annual Employment-Unemployment Survey in the country since the year 2010. The first survey was conducted in 28 States/UTs by covering 300 districts. The second, third and Fourth Annual **Employment-**Unemployment Surveys were more comprehensive in terms of coverage as well as parameters estimated and conducted in all the States/UTs by covering all the districts in the country. The survey deals with namely important parameters Labour Force Participation Rate, Worker Population Ratio,

Unemployment Rate based on Usual Principal Status Approach and Usual Principal & Subsidiary Status Approach, distribution of employed persons by different activity, extent of underemployment etc.

Field work for Fifth Annual Employment-Unemployment Survey was executed from April, 2015 to December, 2015 in all the 36 States/UTs by covering all the districts in the country. A moving reference period of last twelve completed months from the date of survey is used to derive various estimates of labour force and its derivatives.

The survey covered both rural and urban areas of the country. A total of about 7.82 lakh members were inquired from a sample of about 1.57 lakh households in the country. Of the total sample, about 57 per cent were drawn from rural areas where remaining 43 per cent were from urban areas. All the Labour Force Estimates have been derived for persons aged 15 years and above only (Table III.3).

# III.5. Consumer Expenditure Survey of NSSO (CES), 2011–12

NSSO has been conducting the 'Household Consumer Expenditure surveys' (CES) on quinquennial basis. The latest available CES data is for year 2011-12.

A stratified multi-stage design was adopted for the CES. . The number of households surveyed in 68th round was 101662 (59695 in rural areas and 41967 in urban areas). The prime aim of the CES was to generate estimates on monthly per capita consumer expenditure (MPCE) and its distribution across the different sections of the population like rural and urban and different socio- economic groups etc. both at country level as well as the State level.

In the 68th round of CES, two types of schedules of enquiry, type 1 and type 2, were canvassed The only difference in the two types of the schedules was the reference period used for collection of consumption data. Data from type 1 schedule has been used in the estimations used in State TSAs.

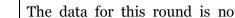
Schedule Type 1 was canvassed following the traditional way of the previous quinquennial CES rounds. For less frequently consumed items, the information was collected for last 30 days and last 365 days consumption while for more frequently used items like food and fuel etc. the information was collected for the last 30 days consumption only.

On the other hand, the reference periods for schedule type 2 were last 365 days (only) for the infrequently purchased items, last 7 days for very frequently consumed items like some of the food items, pan, tobacco and intoxicants etc. and last 30 days for other food items, fuel etc.

A very detailed item classification was adopted to collect information on consumption of more than 300 items consumed by the households. The items on which the information was collected include 142 items of food, 15 items of energy (fuel, light and household appliances), 28 items of clothing, bedding and footwear, 19 items of educational and medical expenses, 51 items of durable goods, and 89 other items. Other demographic information on household members like age, sex, educational attainment etc. were also collected through the CES schedules

## Use of CES for TSA

The main use of CES results in the preparation of TSAs is to estimate the product level ratios of tourist expenditures as percentage of overall household expenditures and these ratios are applied on the PFCE estimates coming from the national accounts statistics. This adjustment is important to ensure the overall consistency of survey results with the national accounts statistics. The data source on household expenditure table for the State TSAs is the 68th round of CES for the year 2011-12.



**Key CES findings for Telangana** 

The data for this round is not available, since the consumption Expenditure Survey of NSSO was done in 2011-12 and the state of Telangana was created in 2015.

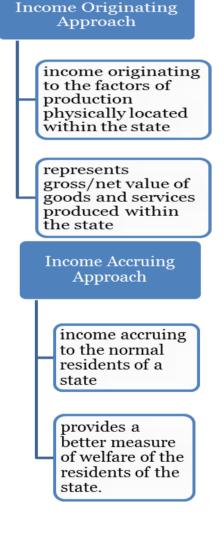
## III.6. State GDP Accounts, 2015–16

At national level, the estimates of Gross Domestic Product are prepared and published annually by the Central Statistical Office (CSO). Similarly, at statelevel, the State Domestic Product estimates are prepared annually by the State Directorate of Economics and Statistics (DES). The state DES is the nodal agency for the coordination of statistical activities in the state. DES annually estimates the State Domestic Product (SDP) using the concepts and methodology approved by the System of National Accounts (SNA) of the international agencies and finalize after the reconciliation with CSO.

Like GDP, SDP is the monetary value of all the goods and services produced within the geographical boundaries of the state, without duplication, within a given period of time, generally a year. The goods cover all possible items like agricultural crops, fisheries, forest products, livestock products, manufacture of materials in the registered and unregistered sectors, construction of buildings, roads etc. Services cover medical and educational services. domestic services, hotels. restaurants, trade. transport and public services etc.

Conceptually, the estimates of State Income can be prepared by adopting two approaches, namely, income originating and income accruing. In the income originating approach, the measurement corresponds to income originating to the factors of production physically located within the geographical boundaries of the state and represents gross/net value of goods and services produced within the state. On the other hand, the income





accruing approach relates to the income accruing to the normal residents of a state. Since this measures the income that become available to the residents of a state, it provides a better measure of welfare of the residents of the state.

However, for compiling the State Domestic Product (SDP) estimates by income accruing approach one needs data on flows of factor incomes to/from the boundaries of state i.e. on inter-state flows as well as flows to/from abroad. Due to lack of availability of these data, presently, the estimates of SDP are compiled by the respective DES in the states following the income originating approach. Thus the current concept of compiling the Gross/Net SDP is similar to that of compiling the GDP/NDP of the entire economy i.e., measuring the volume in monetary terms, the total value of goods and services produced within the geographical boundary of the state.

The general methodology for compiling the estimates of state income is to first compile the estimates at disaggregated level for each economic activity and then aggregating them for the whole region/state.

In the preparation of State TSAs, the SDP accounts are used to arrive at the supply side information of the tourism industries. While the SDP data are not available for all of these industries, the national level ratios are used to disaggregate the available data (Table III.5).

# III.7. Supply and Use Tables (SUT), 2012-13

The central framework of the SNA also provides for the compilation of supply and use tables (SUT) with a focus on the processes of production and consumption of individual types of goods and services. The SUTs depict, in matrices form, where the products come from and how they are used. Their main use is to act as an integration framework for balancing the national accounts, by recording how the supplies of different kinds of goods and services originate from domestic industries and imports, and how those supplies are allocated between various intermediate or final uses, including exports. The framework thus provides for balancing the supply and uses of each type of goods and services, without leaving the scope for discrepancies.

The SUTs build up on the concept that the amount of a product available for use within the economy must have been supplied either by domestic production or by imports. The same amount of the product entering an economy during an accounting period must be used for intermediate consumption, final consumption, capital formation (including changes in inventories) or exports. The TSA uses this framework to estimate tourism product shares, tourism industry shares, Gross Value Added Tourism Industries (GVATI), Tourism Direct Gross Value Added (TDGVA), and Tourism Direct Gross Domestic Product (TDGDP).

The Supply Table and Use Table are product by industry matrices but their entries are different. In the Supply Table, each column presents the values of products (kept in rows) produced by an 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 SUT for 2011–12 and 2012–13. 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 NSA.

The total supply of goods and services available, as given in the Supply Table, is the sum of domestic production and imports. The domestic production or the value of output is at basic prices and the imports are inclusive of the Cost of Insurance and Freight (CIF). The CIF adjustment is done to bring them to Free on Board (FOB) prices. The domestic output matrix is at basic prices. This matrix is revalued since the use matrix is at the purchasers' prices. Hence, the supply matrix is revalued by adding taxes on products less subsidies on products and adding the trade and transport margins.

The Use Table is at the purchasers' prices (unbalanced), which, in turn, consists of three submatrices:

The intermediate use matrix, which shows the input requirements of goods and services for the production of output of each industry sector;

The final use matrix (final demand column vectors) shows categories of final uses as final consumption expenditure (FCE) by households, Non-profit Institutions Serving Households (NPISH) and the government, gross fixed capital formation, changes in stocks, valuables and exports of products; and

The gross value added (row vector), at basic prices, which shows the components of value added by industry sectors.

In the Indian National Accounts, FCE by NPISH is not yet separately available. Thus, the private FCE comprising Household FCE and NPISH FCE has been adopted as the category of FCE and productwise estimates of Private FCE (PFCE) have been obtained following the commodity flow approach.

For the Third National TSA, India's SUT of 2012–13 has been used, but it has been updated for the TSA reference year of 2015–16, using the GVA and output data of 2015–16, at the most disaggregated level as available in NAS.

The updated SUT, comprising 140 products and 66 industries, has been aggregated to 25 industries and 25 products. The aggregated SUT has been used for preparing the core table of TSA for deriving the Tourism Industry and Tourism Product Ratios. Further, this SUT has been converted into an Input-Output Table to derive the output and employment multipliers for the indirect contribution of the tourism sector.

At state-level, SUTs are not available. For the regional TSAs, state SUTs are prepared using the available state-level data on sectors' output and value added. These data are sourced from the CSO. These are used for the outer boundary elements of the SUTs whereas for inter-industry supply and use transactions, national level ratios are used. The state-level SUTs form the Production account of tourism industries. The official GSDP account for the state, as available with CSO, is given in Table III.2.

S .No.	Item	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
1	Agriculture, forestry and fishing	5461488	6736383	7663070	7612263	7758692	9453809
1.1	Crops	3236819	4057045	4709285	4170637	3893583	5229085
1.2	Livestock	1884801	2285828	2487782	2928172	3375346	3714708
1.3	Forestry and logging	191725	209649	216282	246486	251978	262202
2	Mining and quarrying	148143	183861	249721	266968	237785	247814
	Primary	1106109	1268476	1238555	1470580	1706578	1947168
3	Manufacturing	6567597	8004859	8901625	9082843	9465270	11400977
4	Electricity, gas, water supply & other utility services	6215158	5543115	5714839	5453918	5978204	6357278
5	Construction	783505	589605	870938	722075	719444	717045
	Secondary	2279090	2357908	2458242	2779777	2833450	2979101
6	Trade, repair, hotels and restaurants	9277753	8490628	9044019	8955770		10053424
6.1	Trade & repair services	3747813	4454669	5127458	6425361	7712877	9180078
6.2	Hotels & restaurants	3048685	3647224	4456270	5695674	6868113	8227820
7	Transport, storage, communication & services related to broadcasting	699128	807445	671188	729687	844764	952258
7.1	Railways	2531768	2987053	3229774	3587569	3988621	4476361
7.2	Road transport	161396	175654	192902	199686	205940	212786
7.3	Water transport	1461278	1715757	1869092	2053968	2284146	2548579
7.4	Air transport	0	0	0	0	0	0
7.5	Services incidental to transport	23258	43171	34506	62338	110170	143522
7.6	Storage	371763	484436	447736	493722	490111	536519
7.7	Communication & services related to broadcasting	17531	15328	17085	17782	18966	21003
8	Financial services	496542	552707	668453	760073	879288	1013952
9	Real estate, ownership of dwelling & professional services	2126507	2363216	2659553	3023729	3312302	3700733
10	Public administration	5551356				10987631	12527171
11	Other services	1131290			1716638		2150251
	Tertiary	2670927		3546015			5340377
12	TOTAL GSVA at basic prices	17759661	21030774	24227296	2 <u>858</u> 9728	32885849	37374971
13	Taxes on Products	33605011				51882217	
14	Subsidies on products	3281100	3716400	4092900	4867291	5985577	6962624
15	Gross State Domestic Product	942700		1107800	929216	1108966	1165522
16	Population ('oo)	35943411	40159361	45158040	50566416	56758828	64626474
17	Per Capita GSDP (Rs.)	356820	360400	364010	367660	371340	375050

# Table III.2: Gross Value Added by Economic activity at Current prices of Telangana(Rs Lakhs)

Source: Central Statistical Office

# **IV. METHODOLOGY**

There are two main types of approaches to prepare the regional TSAs – Regionalisation or Top-bottom approach and Regional estimation or Bottom-up approach. While regionalization approach requires the existence of national TSA, regional estimation requires the availability of SUT for each region.

The advantage of regionalisation approach is that the TSAs for each region are consistent with each other with respect to concepts and methodology. On the flip side, there is a disadvantage of overlooking regional specific details.

With regard to regional estimation approach, the advantage is that the regional specific details are taken into account as the approach is based on regional information. However, the disadvantage is that the regional TSAs may not be consistent or comparable with other region TSAs or even national TSA.

In Indian context, regionalization approach is more appropriate, mainly due to the non-availability of SUT at state level. The state TSAs for 2009-10 were also prepared using this approach, while the available state tourism statistics were used to the extent possible.

Table IV.1 presents the suitability of these approaches based on the status of availability of requisite information:

Approa	ch Data requirement	Data availability		
	Statistics on expenditures made by visitors on different products within the state	Data is available from the DTS, 2014-15 and IPS, 2015-16 (subject to some assumptions)		
(dn-I	Statistics on supplies from the domestic production and imports (which include from other states) to meet these purchases of tourists	<ul> <li>Data on supplies from domestic production is available</li> <li>Data on imports at state level is not available</li> </ul>		
Regional estimation (bottom-up)	Confrontation of the two sets of statistics in the national accounting framework through the supply and use tables so that supplies from domestic production and imports match with the expenditures made by tourists	<ul> <li>In the absence of data on imports, it is not possible to compile SUT at state level.</li> <li>However, State SUT can be constructed for domestic supplies and total of capital formation and net exports as other final demand in the use table.</li> <li>This SUT though not suitable for TSA, can be used for estimating indirect effects of tourism consumption, value added and employment.</li> </ul>		
Regio	Estimate value added out of the domestic production that is involved in supplying products for tourists' purchases	<ul> <li>Not possible, as how much of domestic production is able to meet the tourists' demand is not known in the absence of information on imports.</li> <li>However, it is possible to compute GVATI and TDGVA using national tourism ratios of output of industries, as suggested in the TSA: RMF 2008.</li> </ul>		
satio wn)	National TSA and tourism ratios by products and industries State level tourism consumption	Available       Available		
Regionalisatio n (top-down)	State level estimates of output and value added by tourism and other industries	Available		
	State level estimates of employment by tourism and other industries	Available		

# Table IV.1: Availability of data for compiling State TSAs according to different approaches

Source: NCAER Compilation

Hence, for Indian states, the RTSAs are prepared by:

- using the Regionalization approach;
- using the tourism industry ratios from national TSA and other state characteristics to derive the state-level tourism industry ratios; and
- applying these on the output of the respective industries in the state.

### IV.1. TSA Framework

Tourism consumption representing Total Tourism Demand is the key component of a TSA. The concepts definitions of components of and Tourism consumption are different in national and regional TSAs. The other key component is the Supply of tourism industries. The confrontation of the demand and supply is the core element of the TSA framework as this confrontation results in Tourism Product and Industry Ratios, which enable the computation of Tourism Direct Gross Value Added (TDGVA) and Tourism Direct Gross Domestic Product (TDGDP). The following table (Figure IV.1 and IV.2) presents the difference in the consumption concepts of national and regional TSAs and also presents their complete framework:

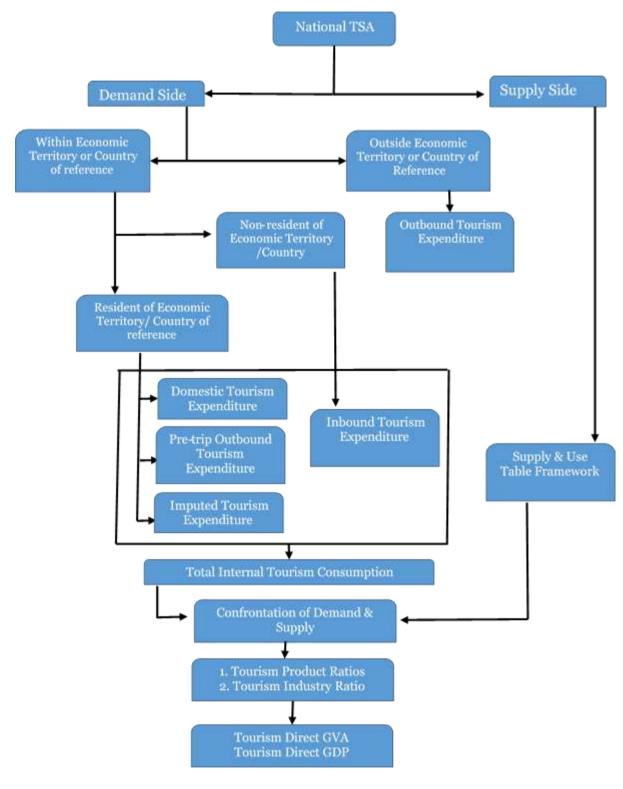


Figure IV.1: Conceptual Framework of National TSA

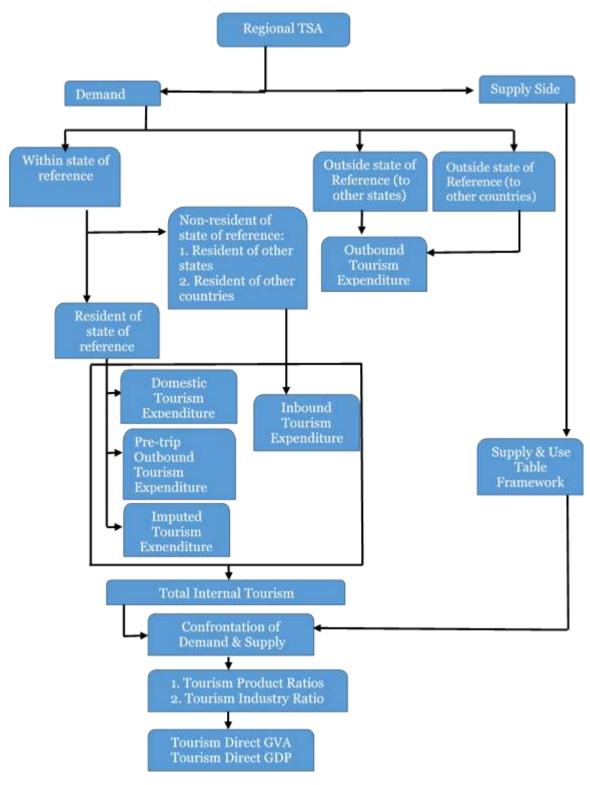


Figure IV.2: Conceptual Framework of State TSA

### **IV.2.** Compilation of State TSAs

According the UNWTO's TSA: RMF-2008, TSA comprises of the following 10 standard Tables:

- 1. Inbound Tourism Expenditure
- 2. Domestic Tourism Expenditure
- 3. Outbound Tre-trip Tourism Expenditure
- 4. Total Internal Tourism Consumption
- 5. Production Account of Tourism Industries
- 6. Supply and Internal Tourism Consumption
- 7. Tourism Employment
- 8. Tourism Gross Fixed Capital Formation
- 9. Tourism Collective Consumption
- 10. Non-Monetary Tourism Indicators

As mentioned earlier, we broadly follow Regionalisation approach for the preparation of However, with the information that is RTSAs. available at State level in India, it is possible to compile TSA Tables 1 to 5 and 7 without much difficulty, though some assumptions would need to be made for this. Also, Tables 8 and 9 on Tourism Gross Fixed Capital Formation and Tourism Collective Consumption respectively cannot be included in the State TSAs due to the non-availability of these data at state level.

Before presenting the description of the state TSA Tables, it is important to mention that TSA: RMF 2008 (Table IV.2) recommends certain set of activities and products to be included while compiling the TSA. While some of the activities have been specified distinctly, some are recommended to be country-specific. Accordingly, a comprehensive set of activities and products were identified in the compilation of national as well as state TSAs. Both the recommended and the adopted classifications separately for products and activities are shown in the table below.

Products Recommended in the TSA: RMF 2008	Products Used for TSA in India			
Accommodation services for visitors	Hotels			
Food and beverage serving services	Restaurants			
Railway passenger transport services	Railway passenger transport services			
Road passenger transport services	Land passenger transport including via pipeline			
Water passenger transport services	Water passenger transport			
Air passenger transport services	Air passenger transport			
Transport equipment rental services	Renting of transport equipment			
Travel agencies and other reservation services	Tourism related supporting and auxiliary			
Cultural services	Cultural and religious services			
Sports and recreational services	Sporting and recreational services			
Country-specific tourism characteristic goods	Medical and health			
Country-specific tourism characteristic	Processed food products			
services	Beverages			
	Tobacco products			
	Readymade garments			
	Printing and publishing			
	Leather footwear			
	Travel related consumer goods			
	Soaps and cosmetics			
	Gems and jewellery			

# Table IV.2: Products recommended in TSA: RMF 2008 Vs. Products included in TSA, 2015-16

Source: NCAER compilation

## IV.3. Inbound Tourism Expenditure

Inbound Tourism Expenditure forms Table 1 of the TSA. At regional or state level, inbound tourism expenditure comprises of expenditure incurred by visitors from other countries as well as by those from other states of the same country. These expenditures are incurred within the state of reference on tourism characteristic and tourism connected products and services. An inbound tourism trip refers to the travel of a visitor from the time of arriving in a country/state to the time of leaving that country/state.

# Inbound Tourism Expenditure incurred by international tourists:

The data on Inbound Tourism Expenditure were collected through the International Passenger Survey (IPS), 2015-16, conducted by the Indian Statistical Institute (ISI), Kolkata. The national-level estimates could be easily derived and are reported in the Third Tourism Satellite Account of India, 2015-16. However, for the state-level estimates, it is important to capture data on expenditure incurred in the state of destination by an inbound tourist visiting that state. It may also be noted that the inbound tourist may have travelled to one or more number of states. For obvious reasons, the survey data does not capture the expenses incurred in each of these states of destination, separately.

Nonetheless, the survey does ask the respondents to give the names of last place of night halt (LPNH). The detailed information on item-wise expenses incurred at LPNH were also collected, besides the expenditure incurred during the entire trip to India. We have imputed the inbound tourism expenditure incurred by the international tourists using these data on expenditure at LPNH.

These places of night halt were mapped with the states they are located in. An aggregation of the expenditure incurred, by each item separately, in all of the places located in a particular state were used to get the expenditure pattern in that state. The number of tourists reporting these expenditures were also obtained.

These expenditure data were inflated to account for the package component and for the amount paid of reimbursed by government or others. Since package and reimbursed components could not be obtained by states, the national level factor is used to inflate them.

Such obtained expenditure by types of tourists for the state of reference is used to get the per-tourist item-wise expenditure. This is because these expenditures are based on only few locations within the state which were the last places of night halt.

Further, to arrive at the actual imputed item-wise

expenditure, the per-tourist expenditure was applied on the number of tourist arrivals in the state, as provided by the Ministry of Tourism's India Tourism Statistics<sup>1</sup> for 2017.

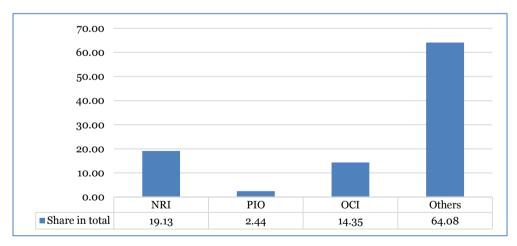
Hence, the imputed state-level Inbound Tourism Expenditure from other countries is obtained for the state of reference. This is presented in TSA Table 1A.

A total of 73,091 residents from other countries are estimated to have travelled to the state of reference as inbound international tourists during 2015-16. Of these, maximum (64.08 percent) belonged to 'others' category (Figure IV.3).

The following figure (Figure IV.4) presents the average per-tourist expenditure incurred by an international tourist visiting the state of reference. The average per-tourist expenditure is estimated at Rs. 51226.

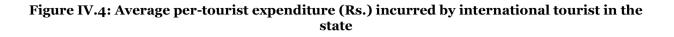
Figure IV.5 presents the percent distribution of expenditure by major items of consumption.

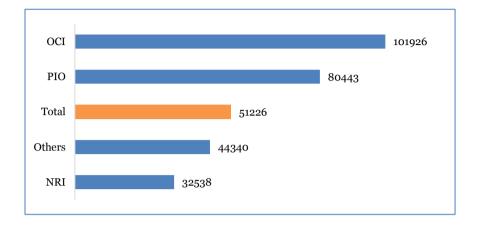
Figure IV.3: Percent distribution of International inbound tourists



Source: NCAER computation using IPS, 2015-16

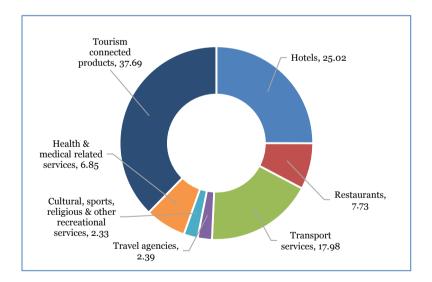
<sup>&</sup>lt;sup>1</sup> It may be noted that India Tourism Statistics reports the number of Foreign Tourist Visits (FTV) by states. Also available is the total number of tourist arrivals (FTA) in the country as a whole. The ratio of national level FTV and FTA is applied on state-level FTV to arrive at state-level FTA.





Source: NCAER computation using IPS, 2015-16

# Figure IV.5: Percent distribution of Inbound Tourism Expenditure (incurred by international tourists) by products and services



Source: NCAER computation using IPS, 2015-16



#### within same district outside state within state outside country

# Inbound Tourism Expenditure incurred by tourists arriving from other states:

The state-level inbound tourism also includes tourism activities of visitors from other states of India, to the state of reference. Hence, this component is part of domestic tourism activities for which the tourism expenditures were collected in the Domestic Tourism Survey (DTS), conducted by the National Sample Survey Organisation (NSSO) during 2014–15.

This survey collected comprehensive information on the expenditure incurred by tourists on a detailed set of items which were mapped with the tourism characteristic and tourism connected (together called tourism-specific) products and services. Also collected was the information on the place of destination, which was categorized as given in Figure IV.6.

The data on item-wise expenditure incurred during the overnight trips originating from any state (other than the state of reference) and for which main destination was the state of reference, were collected to arrive at this component of inbound tourism expenditure. These expenditures were estimated by the leading purpose of the trip.

The table on this component of inbound tourism is prepared by each leading purpose of travel, that is, business, leisure, social, religious, educational, medical, shopping, and others.

Also added are the package component of the expenditure and the amount paid or reimbursed by government or others.

The item-wise expenditures are also adjusted for the under-estimation observed in such data when collected through household surveys. This under-estimation results from the inability to recall the expenses and in some cases, reluctance to report the actual expenses. The under-estimation is established when household consumption expenditure collected through survey are compared with the Private Final Consumption Expenditure (PFCE) given in the National Accounts Statistics. The factors for adjusting this under-estimation at state-level are assumed to be the same as those for All-India.

The item-wise adjustment factors are presented in the table below:

Tourism-specific Products/Services	Adjustment Factors 2015– 16		
A 1. Tourism characteristic products			
1. Accommodation services/hotels	1.00		
2. Food and beverage serving services/restaurants	1.48		
3. Railway passenger transport services	1.32		
4. Road passenger transport services	5.68		
5. Water passenger transport services	11.93		
6. Air passenger transport services	6.81		
7. Transport equipment rental services	1.00		
8. Travel agencies and other reservation services/supporting and auxiliary transport activities	6.71		
9. Cultural and religious services	0.10		
10. Sports and other recreational services	0.10		
11. Health and medical related services	1.21		
A.2 Tourism connected products			
12. Readymade garments	1.81		
13. Processed food	1.32		
14. Alcohol and tobacco products	3.24		
16 Travel-related consumer goods	1.74		
17 Footwear	2.49		
18 Soaps, cosmetics and glycerine	0.82		
19 Gems and jewellery	1.45		
20 Books, journals, magazines, stationery, etc.	0.53		

#### Table IV.3: Consumption Expenditure Adjustment Factors

Source: NCAER computation

Further, since the reference period for the RTSA is 2015-16, we have imputed the number of trips by purposes, using the growth seen in the number of domestic tourist visits in 2015-16 over 2014-15.<sup>2</sup>

Also item-wise price adjustment is done due to price

<sup>2</sup> Refer to India Tourism Statistics, 2017.

change between 2014-15 and 2015-16.

The estimated number of trips for 365-day reference period is taken as it is. For 30-day reference period, the estimated number of trips is imputed by applying the ratio of 365-day to 30-day trips as found in DTS-2008-09 on it (Refer to Technical Note of "Third Tourism Satellite Account for India – 2015-16").

Hence obtained table on expenditure is presented in the TSA Table 1B on Inbound Tourism Expenditure incurred by tourists from other states to the state of reference.

The data for the average per-tourist expenditure incurred by tourists from other states visiting the state of reference are not available.

## IV.4. Domestic tourism expenditure

TSA Table 2 focuses on domestic tourism by products and by purpose of travel. This table presents the Domestic Tourism Expenditure which refers to the expenditure of a resident visitor within the economy of reference. At state level, this table refers to tourists from within the state that is tourists living in the state of reference travelling to another place within the same state of reference.

According to the TSA: RMF 2008 recommendations, household surveys should be conducted to collect expenditure. information on domestic tourism According to IRTS 2008, "Because there are no international borders to cross, the observation of the flows of domestic tourism requires the use of different statistical procedures. As far as overnight tourism is concerned, accommodation statistics are an important statistical source of information on domestic and inbound visitors. Measurement challenges nonetheless arise with these statistics in terms of separating out visitors from other travellers, and domestic from inbound visitors. Information can also be obtained from household surveys by interviewing people about trips undertaken in a specified period".

The domestic tourism expenditure was derived from the Domestic Tourism Survey (DTS), conducted by the National Sample Survey Organisation (NSSO) during 2008-09. The detailed information was collected on the expenditure incurred by tourists on a detailed set of items which were mapped with the tourism characteristic and tourism connected (together called tourism specific) products and services.

For state-level TSAs, domestic tourism expenditure incurred by tourists originating from a state and visiting another place of same state is taken under consideration.

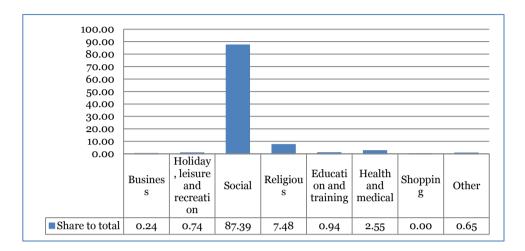
The methodology used for estimation of expenditure is the same as used for estimating the inbound tourism expenditure incurred by tourists from other states to state of reference.

The estimated domestic tourism expenditure incurred by tourists within the state of reference is presented in TSA Table 2.

A total of 3.71 crore residents of the state are estimated to have travelled within the state as domestic tourists during 2015-16. Of these, maximum (87.39 percent) travelled for social purpose (Figure IV.7).

Figure IV.8 presents the average per-tourist expenditure incurred by tourists from within the state of reference. The average per-tourist expenditure is estimated at Rs. 3458.

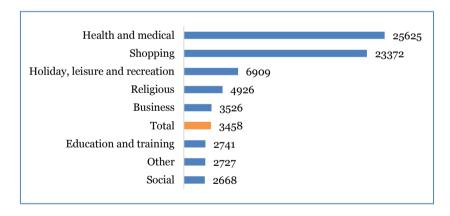
Figure IV.9 presents the percent distribution of expenditure by major items of consumption.



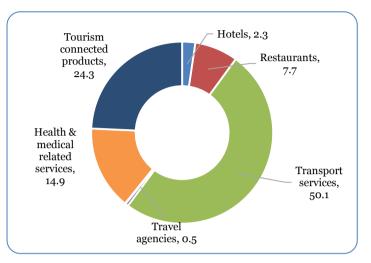
#### Figure IV.7: Percent distribution of domestic tourists by leading purposes of travel

Source: NCAER computation using IPS, 2015-16

# Figure IV.8: Average per-tourist expenditure (Rs.) incurred by tourists from within the state of reference



Source: NCAER computation using IPS, 2015-16



# Figure IV.9: Percent distribution of Domestic Tourism Expenditure (incurred by tourists from within the state) by products and services

Source: NCAER computation using IPS, 2015-16

## IV.5. Outbound Pre-trip Tourism Expenditure

TSA Table 3 focuses on outbound tourism. This table presents the tourism expenditure incurred by resident visitors outside the country of reference on tourism characteristic and tourism connected products and services, respectively. This expenditure could have been incurred either as part of an outbound tourism trip or as part of a domestic trip. Both correspond to the travel between leaving the place of residence and returning. However, a domestic trip has a main destination within the country of residence of the traveller, while an outbound trip has a main destination outside this country.

At state-level, outbound trip refers to the trip undertaken by the resident of the state of reference outside the country and also that undertaken in another state of the country. The expenditure, which is taken into account in both the cases, is the pre-trip expenditure, that is, the expenditure undertaken within the state of reference before the actual trip starts. This expenditure is mainly on shopping items purchased in the preparation of the outbound trip or transport services used to travel from residence to final port of exit to other country or state.

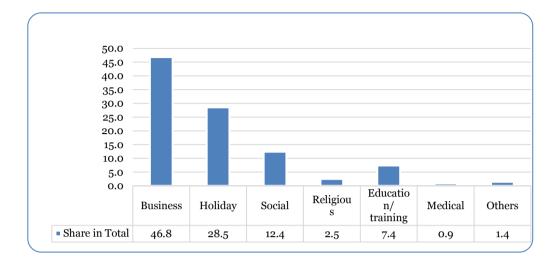
The data on outbound tourism pre-trip expenditure incurred by residents travelling abroad were collected in a separate survey conducted by the ISI, Kolkata, which was a part of IPS. However, data on expenditure incurred by resident visitors travelling to other states of India was beyond the scope of any survey – DTS or IPS.

The pre-trip expenditure incurred by outbound tourists was recorded for a detailed set of items and was mapped with the tourism characteristic and tourism connected products and services. The mapping of consumption items with the tourism-specific products and services is the same as that in the case of inbound tourism expenditure (TSA Table 1). The total item-wise expenditure incurred by outbound tourists within the state is presented in TSA Table 3.

A total of 13.49 lakh residents of the state are estimated to have travelled abroad as outbound tourists during 2015-16. Of these, maximum (46.8 percent) travelled for business purpose, followed by 28.5 percent who travelled for holiday (Figure IV.10).

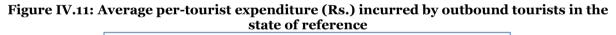
Figure IV.11 presents the average per-tourist expenditure incurred by outbound tourists originating from the state of reference. The average per-tourist expenditure is estimated at Rs. 21355.

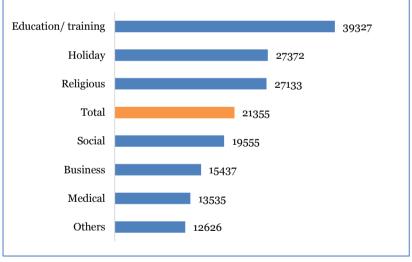
Figure IV.12 presents the percent distribution of expenditure by major items of consumption.



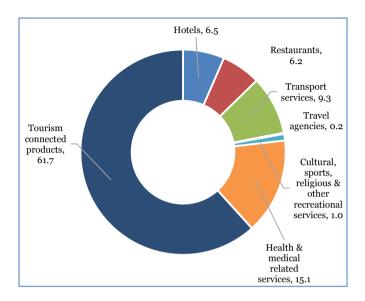
#### Figure IV.10: Percent distribution of outbound tourists by leading purposes of travel

Source: NCAER computation using IPS, 2015-16





Source: NCAER computation using IPS, 2015-16



# Figure IV.12: Percent distribution of Domestic Tourism Expenditure (incurred by tourists from within the state) by products and services

Source: NCAER computation using IPS, 2015-16

## **IV.6.** Total Internal Tourism Consumption

TSA Table 4 presents the total internal tourism consumption which is the sum of total internal tourism expenditure and the imputed tourism consumption. The total internal tourism expenditure is the sum-total of total Inbound, Domestic and Outbound pre-trip tourism expenditure, presented in TSA Tables 1, 2a, 2b and 3. Hence, it refers to the expenditure incurred by all tourists within the state of reference. In addition, the components of imputed consumption are given in separate rows, to make up the total internal tourism consumption.<sup>3</sup> Since these components are not directly available from any data source, they are derived using certain plausible assumptions.

The components of imputed consumption, as recommended in TSA: RMF 2008, along with their

<sup>&</sup>lt;sup>3</sup> The TSA: RMF 2008 recommends that imputed consumption may be shown against a separate column, but since most of these items fall under non-tourism products, these are shown against supplementary rows under domestic tourism.

methods of computation, are described below:

• The imputed consumption on services associated with vacation homes on own account. This is assumed to be equal to 1 per cent of the urban owner occupied dwelling services.<sup>4</sup>

• Imputed consumption towards tourism social transfers in kind (except refunds) is derived from the component of "social transfer in kind" against "Recreation and Culture" in the Classification of Individual Consumption Expenditure of Households (COICOP). Household consumption on any item of consumption comprises the individual consumption expenditure and social transfers in kind (paid by the government). Since the data on the shares of these transfers that goes to the tourists and to non-tourists are not available, it is assumed to be 50 per cent for each.

• The FISIM value on purchases related to tourism trips is obtained using the share of FISIM in PFCE (as in NAS) and applying it to the total internal tourism consumption expenditure.

• The imputed consumption of services rendered by vacation residences provided by producers for the benefit of their employees refers to the cost borne by the companies (mostly private corporates) on the services that they provide in their guest houses for the benefit of employees. This is assumed to be about half per cent of the total output of the organised private corporate sector.

• While the accommodation cost is recommended to be excluded from tourism consumption when the tourists stay at their friends'/relatives' places while on a trip, the expense incurred on food is taken as one of the components of imputed tourism consumption. This is obtained by multiplying the average per day expenditure of food (obtained from PFCE, NAS) with the number of days spent at the friends'/relatives' places during all the

<sup>&</sup>lt;sup>4</sup> The economic activities covered under owner-occupied dwelling services include ownership of dwellings (occupied residential houses) and the imputed value of owner-occupied dwellings.

tourist trips undertaken in a reference year.

The sum of the total internal tourism expenditure and the imputed tourism consumption gives the total tourism consumption, which is presented in TSA Table 4.

The percentage distribution of total internal tourism consumption by forms of tourism is presented in the table below:

#### Table IV.4: Total Internal Tourism Consumption by forms of tourism (% distribution)

Item	Inbound from other countries	Inbound from other states	Domestic	Outbound	Total
1. Accommodation services/Hotels	16.1	0.0	51.6	32.3	100.0
2 Food and beverage serving services/Restaurants	2.4	0.0	82.7	14.9	100.0
3 Railway passenger transport services	0.9	0.0	96.3	2.8	100.0
4 Road passenger transport services	0.3	0.0	96.8	2.9	100.0
5 Water passenger transport services	25.6	0.0	57.8	16.7	100.0
6 Air passenger transport services	33.1	0.0	0.0	66.9	100.0
7 Transport equipment rental services	2.1	0.0	93.4	4.5	100.0
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	10.9	0.0	83.0	6.1	100.0
9 Cultural and religious services	18.4	0.0	45.7	35.9	100.0
10 Sports and other recreational services	14.1	0.0	7.5	78.3	100.0
11 Health and medical related services	1.1	0.0	80.6	18.3	100.0
12 Readymade garments	2.0	0.0	68.7	29.3	100.0
13 Processed Food	2.4	0.0	42.8	54.8	100.0
14 Alcohol & Tobacco products	7.3	0.0	48.7	43.9	100.0
15 Travel related consumer goods	2.2	0.0	38.2	59.5	100.0
16 Footwear	2.5	0.0	49.9	47.6	100.0
17 Soaps, cosmetics and glycerin	1.4	0.0	83.7	14.9	100.0
18 Gems and jewellery	6.2	0.0	57.3	36.4	100.0
19 Books, journals, magazines, stationery etc.	7.7	0.0	38.2	54.1	100.0
Total Expenditure	2.3	0.0	79.8	17.9	100.0
A.3 Other imputed connected products	0.0	0.0	100.0	0.0	100.0
Total (Rs. Crore)	1.8	0.0	84.1	14.0	100.0

Source: NCAER computation using TSA Table 4

### IV.7. Production Account of Tourism Industries

The production accounts of tourism industries and other industries in the economy of reference is presented in TSA Table 5. It conforms to the format established in the Systems of National Accounts (SNA) for production accounts.

The gross value added of all the tourism characteristic and tourism connected industries put together is referred to as Gross Value Added of Tourism Industries (GVATI). The GVATI, however, has a limited role as being a relevant indicator of tourism's contribution to the economy. This is because not all the gross value added of these industries are on account of tourism activity; part of it is on account of non-tourism too.

As recommended, the production account for the state TSAs has been prepared using India's Supply and Use Table (SUT) for the year 2015-16. The latest official SUT for India, as prepared by the Central Statistics Office (CSO), is available for 2012-13. This has been updated for 2015-16 for the preparation of India's third TSA. The updated SUT is then used to compile the state-level SUTs. For this, the latest data available from official sources on the Value of Output and Gross Value Added, at the most disaggregated level, have been used. These data form the control totals of all the rows and columns of both Supply Table and Use Table. The inter-industry transactions are derived using the national-level ratios.

The detailed SUT with 142 products and 80 industries is aggregated to 24 industries and products, 19 industries were the tourism specific industries, for which the information on tourism consumption is available and presented in TSA Table 4; and the remaining 5 industries and products are the tourism non-specific industries and products, which, however, would have linkages with tourism industries/products.

The source of data for Tables 5 and 6 is the detailed data on state domestic product, that has been provided by the CSO and the respective state Directorates of Economics and Statistics. The all-India ratios have been used for deriving output, intermediate consumption or for splitting of industries and products at state level, wherever there is lack of information by states.

The 24X24 SUT for the state of reference, is presented as TSA Table 5 in Chapter V.

The following table summarises the production account of 24 industries. The GVATI works out to be Rs. 3892715 lakh, which is 7.3 percent of total GVA of the state economy.

	Industry	Gross Value of Output (Rs. lakh)	GVA (Rs. lakh)	Share in Total GVA (%)
1	Agriculture and allied	9164532	7570653	14.3
2	Mining, other manufacturing, construction, electricity, gas and water supply	23734908	7780613	14.7
3	Trade	8967170	6624084	12.5
4	Transport freight services	4351622	2005788	3.8
5	All non-tourism specific services	39906254	25159698	47.4
6	Accommodation services/Hotels	332836	113574	0.2
7	Food and beverage serving services/Restaurants	2104818	718231	1.4
8	Railway passenger transport services	60554	40125	0.1
9	Passenger transport services	1992479	884637	1.7
10	Water passenger transport services	0	0	0.0
11	Air passenger transport services	444921	102304	0.2
12	Transport equipment rental services	4427	3025	0.0
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	102899	48933	0.1
14	Cultural and religious services	8854	5823	0.0
15	Sports and other recreational services	193459	109788	0.2
16	Health and medical related services	1314111	813157	1.5
17	Readymade garments	87306	28688	0.1
18	Processed Food	3449874	464111	0.9
19	Alcohol & Tobacco products	725639	306659	0.6
20	Travel related consumer goods	49433	6558	0.0
21	Footwear	13	4	0.0
22	Soaps, cosmetics and glycerin	410016	89210	0.2
23	Gems and jewellery	44288	4304	0.0
24	Books, journals, magazines, stationery etc.	687854	153586	0.3
	Total – all industries	98138267	53033551	100
	Total Tourism specific industries (Tourism characteristic and Tourism connected)	12013781	3892715	7.3

Table IV.5: Economic Aggregates of Industries

Source: NCAER computation using TSA Table 5

### IV.8. Tourism Industry Ratios and TDGVA

The most crucial table in a TSA is TSA Table 6, which is the core of the TSA system as it is where the confrontation and reconciliation between domestic supply and internal tourism consumption take place. In this table, the total supply of goods and services in the economy of reference by products, which includes domestic production (production bv resident industries) and imports, (including valuation adjustments). is compared to internal tourism consumption that is derived in TSA Table 4.

Using the results of TSA Table 6, estimates can be derived regarding the gross value added attributable to tourism for each of the domestic industries that serve visitors. This provides the basic information that is necessary for the computation of tourism ratios for products and industries, TDGVA (Tourism Direct Gross Value Added) and TDGDP (Tourism Direct Gross Domestic Product) and their components. The table together with the associated Use Table provides a basis to compile input-output tables and input-output models that facilitate estimation of indirect contribution of tourism to the economy.

On comparing the demand side and supply side data, the Tourism Product Ratios (TPR) are derived for each of the 24 product categories. By definition, the Tourism Product Ratio is that proportion of the total supply of a product which is consumed by the tourists or is on account of tourism activity.

These TPRs, when applied to each industry column of the supply table, yield the Tourism Industry Ratios (TIRs) for each of the 24 industry categories. Using these ratios, the estimates can be derived regarding the GVA attributable to tourism for each of the domestic industries that serve visitors.

At state level, the Supply Table presents only domestic supply as state-level trade data are not available. It was for this reason that the regional TSAs, prepared for 2009-10, did not derive the Tourism product and industry ratios by bringing together the Total supply and Tourism Demand data. The Tourism industry ratios, instead, were calculated using the small area estimation techniques.

However, for the present TSAs for 2015-16, an effort is made to use the standard methodology for deriving the Tourism product and industry ratios by using the similar SUT framework as used for national TSA.

For this, the total supply (inclusive of imports) is derived by applying the share of State Domestic supply in India's Domestic Supply to India's Total Supply. This is based on the assumption that the share of a state in India's Total Supply is same as its share in India's domestic supply.

In the case of Use Table, Final demand is kept as a single aggregate column vector.

By doing this, tourism product ratios for all products are derived by comparing Total Supply of each product with Total Tourism Consumption of that product. In the case of products, for which these ratios did not look plausible enough, these have been replaced with the national ratio for that product. The Tourism consumption for that product is accordingly adjusted and referred as Adjusted Tourism Consumption.

These TPRs are applied on each industry column to derive the Tourism Industry Ratios. These ratios bring out the tourism component from each industry's GVA, hence bringing out the Total Tourism Direct GVA (TDGVA). The share of TDGVA to total state GVA is the contribution of Tourism to state's economy.

It may be noted that because of the difference in methodology in deriving the Tourism Industry Ratios and TDGVA in state TSAs of 2009-10 and 2015-16, the shares of Tourism to state economy may not be strictly comparable. However, the state TSAs of 2015-16 clearly are an improvement over the same of 2009-10 as the methodology converges to that of national methodology and hence to the internationally recommended methodology.

The production account of industries along with their respective tourism components are presented in TSA Table 6 for each product and services of consumption. The following table summarises the same and presents the share of TDGVA in state total GVA.

		Total Supply (Rs. Lakh)	Adjusted Tourism Consumpti on (Rs. Lakh)	Tourism Product Ratio (%)	Tourism Industry Ratio (%)	GVA (Rs. Lakh)	TDGVA (Rs. Lakh)
1	Agriculture and allied	12677131	0	0.0	0.00	7570653	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	51991823	0	0.0	0.00	7780613	67
3	Trade	0	0	0.0	0.02	6624084	1625
4	Transport freight services	0	0	0.0	1.20	2005788	23975
5	All non-tourism specific services	34305363	443138	1.3	0.96	25159698	241631
6	Accommodation services/Hotels	483425	348066	72.0	71.36	113574	81048
7	Food and beverage serving services/Restaurants	2265742	1206657	53.3	54.21	718231	389359
8	Railway passenger transport services	68089	39448	57.9	57.94	40125	23247
9	Road passenger transport services	2092867	587350	28.1	23.49	884637	207844
10	Water passenger transport services	17340	1245	7.2	0.00	0	0
11	Air passenger transport services	505006	409542	81.1	81.10	102304	82965
12	Transport equipment rental services	4997	1899	38.0	38.00	3025	1149
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	119397	61195	51.3	51.25	48933	25080
14	Cultural and religious services	9913	2834	28.6	28.59	5823	1665
15	Sports and other recreational services	283123	2483	0.9	0.88	109788	963
16	Health and medical related services	1472115	237591	16.1	16.14	813157	131239
17	Readymade garments	307039	108993	35.5	0.00	28688	0
18	Processed Food	6104967	46807	0.8	0.00	464111	1
19	Alcohol & Tobacco products	1334640	25290	1.9	0.00	306659	9
20	Travel related consumer goods	83945	8813	10.5	0.02	6558	1
21	Footwear	22615	4331	19.2	0.00	4	0
22	Soaps, cosmetics and glycerin	708782	2960	0.4	0.00	89210	1
23	Gems and jewellery	338309	42076	12.4	0.02	4304	1
24	Books, journals, magazines, stationery etc.	251555	10925	4.3	0.00	153586	1
	Total	115448181	3591642	3.1	2.29	53033551	1211868

Table IV.6: Total Supply, Tourism Consumption and TDGVA

Source: NCAER computation using TSA Table 6

# **Key Findings:**

- The value of Total supply of all industries in the state is Rs. 115448181 lakh, of which Rs. 3591642 lakh is on account of tourism. This is 3.1 percent of total supply.
- The TPR and TIR are the largest for the Air passenger transport services, at 81.1 and 81.1 percent respectively.
- The TDGVA of the state stands at Rs. 1211868 lakh, which is 2.3 percent of Total GVA.
- Hence, the direct share of tourism in state GVA is 2.3 percent.

# IV.9. Tourism Employment

TSA Table 7 presents the employment situation in tourism industries in the state of reference. According to TSA: RMF 2008, "seasonality, high variability in the working conditions, flexibility, and the informality of jobs in several small units are the major challenges in collecting data on employment in tourism industries".

Further, labour is a factor of production and is generally associated with an establishment wherein various products are produced. Therefore, relating employment to a specific product or group of products of a given establishment is a complex issue in measuring tourism direct employment.

For this reason, tourism employment, referring to the employment strictly related to the goods and services (tourism characteristic, tourism connected, and other) acquired by visitors and produced by either tourism industries or other industries cannot be assessed directly.

Hence, it is recommended to restrict to employment in tourism characteristic industries as the direct tourism employment. For TSAs for India and the states of India, the TSA Table 7 presents the total number of jobs (one employed person can take up more than one job, with the second being of a subsidiary nature). The table also distinguishes jobs in tourism industries by nature of employment, that is, the self-employed and employees.

The data on state-wise employment are sourced from the Annual Employment Unemployment Survey, conducted in 2015–16 by the Labour Bureau (LB).

But due to some limitations in this dataset, certain adjustments have been done using the NSSO conducted Employment-Unemployment survey for 2011-12.

The LB data presents the employment by industries at the three-digit level of NIC-2008 classification. Further, this data canvassed persons aged 15 years and above. Besides, the survey did not capture the data on multiple activities, that is, the number of persons employed in both principal and subsidiary status. Hence, the survey presents the headcount employment and does not estimate the number of jobs.

In order to comply with the methodology followed in the previous TSA, and for estimating the number of jobs, the number of persons employed by each threedigit industry code has been adjusted for age. For this purpose, the factors were taken from the NSS data on the Employment–Unemployment Survey conducted in 2011–12.

In the first stage of adjustment, an industry-wise factor was obtained by taking the ratio of the employed persons of all ages to the employed persons aged 15 years and above, using the NSS 2011–12 data. This industry-wise factor was applied on the respective industry-wise estimated employment obtained using the LB 2015–16 data.

In the second stage of adjustment, another industry-

wise factor was obtained by taking the ratio of the number of jobs to the number of workers, using the NSS 2011–12 data. This factor was applied on the industry-wise employment obtained after the first stage of adjustment.

The final estimates were also adjusted using the population projection for 2015–16, in order to adjust for under-estimation in population.

The estimates of number of jobs, hence obtained, were disaggregated to 4 or 5-digit level of classification, wherever required, so that the number of jobs in the 11 tourism characteristics industries could be estimate. This disaggregation was also done using the proportions obtained from NSS dataset.

The final table (TSA Table 7) presents the number of jobs, by work status, for all the 11 tourism characteristics industries. The sum-total of these jobs is referred to as tourism employment and its share in total state employment is the direct share of Tourism to state employment.

### IV.10. Indirect Contribution of Tourism

The indirect benefits of tourism result due to the inter-linkages of tourism specific industries with other industries of the economy. Besides, these result when the money spent by the tourists in an area is recirculated and re-spent in the local economy, thereby generating extra income and output. The actual economic benefit to the area is, therefore, greater than the original amount spent by the tourists.

As suggested in the TSA: RMF 2008, the Input– Output (IO) model is used to quantify the indirect benefits. The model generates the output, GVA and employment multipliers, which are the measures of the indirect benefits of a sector to the economy's output, GVA/GDP, and employment, respectively.

The basic requirement of an IO model is the IO table,

which is prepared using the Supply and Use Table (SUT). The SUT for the state is presented in TSA Table 5. This SUT is converted to an IO table for deriving the required multipliers for the tourism sector. However, the SUT of 24 industries and products does not list tourism as a separate sector, which is embedded within the tourism characteristic and connected industries and products. Thus, in order to segregate the tourism component from these industries and products ratios are applied on each industry column and product row, respectively.

The indirect benefits due to the interlinkages of the tourism industry with other industries are obtained in the Leontief Inverse matrix, simply called the "inverse" matrix, and subsequently through the multipliers. The multipliers represent a quantitative expression of the extent to which some initial, "exogenous" force or change is expected to generate additional effects through the interdependencies associated with some assumed and/or empirically established "endogenous" linkage system.

To be specific, if a sector increases its output, more inputs are required, including more intermediates from other sectors. Such an interconnection of a particular sector to another sectors is termed as a "backward linkage" and is represented by an "output multiplier". This is the column sum of the inverse matrix. The higher the multipliers, the larger are the effects on the input–output system of the economy.

The employment multiplier is the ratio of the employment linkage coefficient to the employment direct coefficient. The direct coefficient is the employment to output ratio and the employment linkage coefficient is obtained by multiplying the row vector of the employment direct coefficient with the inverse matrix. It may be noted that employment refers to the number of jobs in an industry, so as to be in conformity with the TSA Table on Employment.

The tourism output multiplier, GVA multiplier and

employment multiplier are presented in Table IV.7.

#### IV.11. Non-Monetary Tourism Indicators

TSA Tables 8 and 9 on Tourism Gross Fixed Capital Formation and Tourism Collective Consumption respectively are beyond the scope of regional TSAs due to non-availability of data.

TSA Table 10 presents a few quantitative indicators that are important for the interpretation of the monetary information presented. The indicators include the estimated number of tourist households and tourists, trips per 100 households, distribution of trips (for states of origin) by leading purposes; distribution of trips (for states of destination) by leading purposes, distribution of trips by main destination, distribution of trips by starting month of travel. It may be noted that the set of non-monetary indicators may vary from country to country depending on the availability of data.

### V. TSA TABLES

## TSA Table 1A: Inbound Tourism Expenditure incurred by International Tourists by<br/>Products and by types of tourists(RS. LAKH)

	Total							
Item	NRI	PIO	OCI	Others	Total			
1. Accommodation services/Hotels	929	196	2060	6184	9369			
2 Food and beverage serving services/Restaurants	393	74	699	1727	2893			
3 Railway passenger transport services	104	0	85	155	345			
4 Road passenger transport services	525	38	359	1067	1989			
5 Water passenger transport services	16	0	272	30	318			
6 Air passenger transport services	397	168	647	2049	3260			
7 Transport equipment rental services	124	98	272	327	821			
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	10	12	627	248	897			
9 Cultural and religious services	70	13	175	263	521			
10 Sports and other recreational services	41	8	163	138	351			
11 Health and medical related services	338	91	708	1427	2564			
A.2 Tourism connected products								
12 Readymade garments	875	141	1846	3671	6533			
13 Processed Food	92	64	549	406	1111			
14 Alcohol & Tobacco products	218	62	863	713	1857			
15 Travel related consumer goods	5	8	61	123	197			
16 Footwear	140	26	277	461	904			
17 Soaps, cosmetics and glycerin	10	0	12	20	42			
18 Gems and jewellery	186	412	855	1174	2627			
19 Books, journals, magazines, stationery etc.	76	21	161	585	843			
Total Expenditure	4549	1435	10690	20769	37442			
Estimated Number of tourists 2015-16	13981	1783	10488	46839	73091			
	32538	80443	101926	44340	51226			

r roducts and by reading purposes									-
Item	Business	Holiday, leisure and recreation	Social	Religious	Education and training	Health and medical	Shopping	Other	Total
A.1. Tourism characteristic products									
1. Accommodation services/Hotels	3303	5264	1896	16199	1220	2333	15	1005	31236
2 Food and beverage serving services/Restaurants	5449	7970	10090	42571	3163	2981	13	2934	75172
3 Railway passenger transport services	9889	7851	17643	27813	1531	1587	6	686	67005
4 Road passenger transport services	4231	15050	75336	15421 6	4107	3529	141	875	257485
5 Water passenger transport services	0	13	1326	1773	0	416	0	0	3527
6 Air passenger transport services	9581	44032	3593	4985	166	9773	0	0	72129
7 Transport equipment rental services	971	2868	3544	13055	226	591	4	148	21407
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	404	364	278	0	60	0	0	1106
9 Cultural and religious services	12	65	384	883	0	1	0	0	1345
10 Sports and other recreational services	62	28	21	13	0	0	0	0	125
11 Health and medical related services	4	335	891	1565	0	26746	0	0	29542
A.2 Tourism connected products									
12 Readymade garments	12471	4754	14260	10453	61	518	13	540	43069
13 Processed Food	685	862	5731	12754	2	299	55	47	20435
14 Alcohol & Tobacco products	128	217	502	3504	0	128	0	0	4479
15 Travel related consumer goods	154	375	368	3294	10	24	0	29	4253
16 Footwear	4067	507	1277	1848	1710	80	17	66	9573
17 Soaps, cosmetics and glycerin	13	170	261	1431	49	85	0	10	2019
18 Gems and jewellery	254	1001	10158	3418	0	6	0	0	14838
19 Books, journals, magazines, stationery etc.	92	247	1567	3454	190	23	30	12	5614
Total Expenditure	51366	92011	14921 3	30350 7	12435	49178	295	6353	664359
Estimated number of trips 2015-16	27862 2	26686 9	346267 2	390782 2	23241 4	13642 6	2487	12303 0	841034 3
Per-trip Expenditure	18436	34478	4309	7767	5350	36047	1187 5	5164	7899

# TSA Table 1B: Inbound Tourism Expenditure incurred by Tourists from other states by<br/>Products and by leading purposes(RS. LAKH)

state of reference by Products and b	, icuaii					(KS. LAKH)							
Item	Business	Holiday, leisure and recreation	Social	Religious	Education and training	Health and medical	Shopping	Other	Total				
A.1. Tourism characteristic products													
1. Accommodation services/Hotels	486	145 4	652	1217 1	0	1508 9	10	200	3006 2				
2 Food and beverage serving services/Restaurants	439	374 9	4967 5	248 31	328	1920 8	9	520	9875 8				
3 Railway passenger transport services	760	215 3	15412	189 90	0	633	10	31	3798 8				
4 Road passenger transport services	252	743 1	4797 52	575 68	183 4	1702 4	32	443 9	5683 33				
5 Water passenger transport services	0	91	622	0	0	6	0	0	719				
6 Air passenger transport services	0	0	0	0	0	0	0	0	0				
7 Transport equipment rental services	194	103 6	2037 9	1142 1	126	3352	2	71	3658 1				
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	135	6492	44	0	157	0	0	6829				
9 Cultural and religious services	0	37	45	1214	0	0	0	0	1296				
10 Sports and other recreational services	0	15	147	3	21	0	0	0	186				
11 Health and medical related services	0	53	7074	185	0	1830 17	0	1161	19149 1				
A.2 Tourism connected products								0					
12 Readymade garments	104 5	198 9	21381 9	220 0	555 1	2247	230	0	2270 81				
13 Processed Food	1	148	1484 9	366 7	214	1105	0	67	2005 2				
14 Alcohol & Tobacco products	0	29	11633	200	0	329	0	128	12319				
15 Travel related consumer goods	0	86	2423	720	92	43	6	0	3369				
16 Footwear	0	414	1684 9	517	160	132	7	0	1807 8				
17 Soaps, cosmetics and glycerin	0	26	1470	449	185	347	0	0	2478				
18 Gems and jewellery	0	5	2154 8	162 8	924	3	7	0	24114				
19 Books, journals, magazines, stationery etc.	0	134	2887	102 7	109	12	0	0	4170				
Total Expenditure	3176	1898 5	865729	13683 7	9543	24270 4	313	6617	128390 4				
Estimated number of trips 2015-16(000)	90	275	3245 1	2778	348	947	1	243	3713 3				
Per-trip Expenditure	3526	6909	2668	4926	2741	25625	2337 2	2727	3458				
Source: NCAER computation		•			•			•					

### TSA Table 2: Domestic Tourism Expenditure incurred by Tourists from within the state of reference by Products and by leading purposes (Rs. Lakh)

 $Source: \textit{NCAER} \ computation$ 

Medical	SI	_
Μ	Others	Total
0	40	18816
105	89	17830
0	20	1115
265	101	17028
0	0	208
0	32	6592
0	42	1755
0	5	499
0	0	1017
0	0	1945
620	244	43537
276	825	96902
81	451	25644
40	3	11114
0	42	5248
87	492	17246
0	77	441
97	0	15335
17	3	5912
1587	2467	288183
12	20	1349
13535	12626	21355
	105 0 265 0 0 0 0 0 0 620 620 620 620 620 81 40 87 0 87 0 97 17 1587 12	105     89       105     89       0     20       265     101       0     0       0     32       0     42       0     42       0     5       0     0       0     0       6     244       0     244       276     825       81     451       40     3       0     42       87     492       0     77       97     0       17     3       1587     2467       12     20

### TSA Table 3: Pre-Trip Outbound Tourism Expenditure incurred by resident visitors travelling abroad by products and by leading purposes (Rs. Lakh)

Item A.1. Tourism characteristic products	Inbound from other countries	Inbound from other states	Domestic	Outbound	Total
_				.00.(	-0
1. Accommodation services/Hotels	9369	0	30062	18816	58247
2 Food and beverage serving services/Restaurants	2893	0	98758	17830	119481
3 Railway passenger transport services	345	0	37988	1115	39448
4 Road passenger transport services	1989	0	568333	17028	587350
5 Water passenger transport services	318	0	719	208	1245
6 Air passenger transport services	3260	0	0	6592	9851
7 Transport equipment rental services	821	0	36581	1755	39157
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	897	0	6829	499	8224
9 Cultural and religious services	521	0	1296	1017	2834
10 Sports and other recreational services	351	0	186	1945	2483
11 Health and medical related services	2564	0	191491	43537	237591
A.2 Tourism connected products					
12 Readymade garments	6533	0	227081	96902	330516
13 Processed Food	1111	0	20052	25644	46807
14 Alcohol & Tobacco products	1857	0	12319	11114	25290
15 Travel related consumer goods	197	0	3369	5248	8813
16 Footwear	904	0	18078	17246	36229
17 Soaps, cosmetics and glycerin	42	0	2478	441	2960
18 Gems and jewellery	2627	0	24114	15335	42076
19 Books, journals, magazines, stationery etc.	843	0	4170	5912	10925
Total Expenditure	37442	0	1283904	288183	1609528
A.3 Other imputed connected products	0	0	443138	0	443138
21 Vacation homes (assumed to be 1% of urban owner occupied dwelling services, total Rs. 1,69,363 crore)	0	0	24293	0	24293
22 Social transfers in kind (50% of GFCE of tourism and cultural services)	0	0	12413	0	12413
23 FISIM (calculated from the share of fisim in PFCE)	0	0	84969	0	84969
24 Producers' guest houses (.5% of private corporate sector output)	0	0	248634	0	248634
25 Imputed expenditures of households on food for tourists staying with them	0	0	72828	0	72828
Total (Rs. Crore)	37442	0	1727042	288183	2052666

TSA Table 4: Total Internal Tourism Consumption (Rs. Lakh)

S.	Industry	Industry	as per the	Serial No.	given in fi	irst column
No.	industry	1	2	3	4	5
1	Agriculture and allied	9047667	0	0	0	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	116865	22325097	0	0	10236667
3	Trade	0	449692	8875920	0	0
4	Transport freight services	0	0	0	4166283	0
5	All non-tourism specific services	0	15799	91251	0	29669588
6	Accommodation services/Hotels	0	0	0	0	0
7	Food and beverage serving services/Restaurants	0	0	0	0	0
8	Railway passenger transport services	0	0	0	0	0
9	Road passenger transport services	0	0	0	185339	0
10	Water passenger transport services	0	0	0	0	0
11	Air passenger transport services	0	0	0	0	0
12	Transport equipment rental services	0	0	0	0	0
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0
14	Cultural and religious services	0	0	0	0	0
15	Sports and other recreational services	0	0	0	0	0
16	Health and medical related services	0	0	0	0	0
17	Readymade garments	0	110258	0	0	0
18	Processed Food	0	68010	0	0	0
19	Alcohol & Tobacco products	0	2651	0	0	0
20	Travel related consumer goods	0	36330	0	0	0
21	Footwear	0	2371	0	0	0
22	Soaps, cosmetics and glycerin	0	394366	0	0	0
23	Gems and jewellery	0	183768	0	0	0
24	Books, journals, magazines, stationery etc.	0	146565	0	0	0
	Total Value of Output (Rs. Lakh)	9164532	23734908	8967170	4351622	39906254

S. No.	Industry	Industry		Serial No lumn	. given in f	irst
5.110.	industry	6	7	8	9	1 0
1	Agriculture and allied	0	0	0	0	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	0	0	0	0	0
3	Trade	0	0	0	0	0
4	Transport freight services	0	0	0	324424	0
5	All non-tourism specific services	0	0	0	0	0
6	Accommodation services/Hotels	321487	107162	0	0	0
7	Food and beverage serving services/Restaurants	11348	1997655	0	0	0
8	Railway passenger transport services	0	0	60554	0	0
9	Road passenger transport services	0	0	0	1668055	0
10	Water passenger transport services	0	0	0	0	0
11	Air passenger transport services	0	0	0	0	0
12	Transport equipment rental services	0	0	0	0	0
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0
14	Cultural and religious services	0	0	0	0	0
15	Sports and other recreational services	0	0	0	0	0
16	Health and medical related services	0	0	0	0	0
17	Readymade garments	0	0	0	0	0
18	Processed Food	0	0	0	0	0
19	Alcohol & Tobacco products	0	0	0	0	0
20	Travel related consumer goods	0	0	0	0	0
21	Footwear	0	0	0	0	0
22	Soaps, cosmetics and glycerin	0	0	0	0	0
23	Gems and jewellery	0	0	0	0	0
24	Books, journals, magazines, stationery etc.	0	0	0	0	0
	Total Value of Output (Rs. Lakh)	332836	2104818	60554	1992479	0

S. No.	Industry	Indust	ry as pe fi	r the Seri rst colum	al No. g n	given in
		11	12	13	14	15
1	Agriculture and allied	0	0	0	0	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	0	0	0	0	0
3	Trade	0	0	0	0	0
4	Transport freight services	0	0	0	0	0
5	All non-tourism specific services	0	0	0	0	0
6	Accommodation services/Hotels	0	0	0	0	0
7	Food and beverage serving services/Restaurants	0	0	0	0	0
8	Railway passenger transport services	0	0	0	0	0
9	Road passenger transport services	0	0	0	0	0
10	Water passenger transport services	0	0	0	0	0
11	Air passenger transport services	444921	0	0	0	0
12	Transport equipment rental services	0	4427	0	0	0
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	102899	0	0
14	Cultural and religious services	0	0	0	8854	0
15	Sports and other recreational services	0	0	0	0	193459
16	Health and medical related services	0	0	0	0	0
17	Readymade garments	0	0	0	0	0
18	Processed Food	0	0	0	0	0
19	Alcohol & Tobacco products	0	0	0	0	0
20	Travel related consumer goods	0	0	0	0	0
21	Footwear	0	0	0	0	0
22	Soaps, cosmetics and glycerin	0	0	0	0	0
23	Gems and jewellery	0	0	0	0	0
24	Books, journals, magazines, stationery etc.	0	0	0	0	0
	Total Value of Output (Rs. Lakh)	444921	4427	102899	8854	193459

Table 5: Production Account of Tourism Industries - Supply Table - Telangana, 2015-16
(Rs. Lakh) (Cont.)

S. No.	Industry	Industry as per the Serial No. given in first column							
511.01		16	17	18	19	20			
1	Agriculture and allied	0	0	0	0	0			
2	Mining, other manufacturing, construction, electricity, gas and water supply	0	12863	15256	11606	8906			
3	Trade	0	959	81161	14762	558			
4	Transport freight services	0	0	0	0	0			
5	All non-tourism specific services	0	4	442	1697	596			
6	Accommodation services/Hotels	0	0	0	0	0			
7	Food and beverage serving services/Restaurants	0	0	0	0	0			
8	Railway passenger transport services	0	0	0	0	0			
9	Road passenger transport services	0	0	0	0	0			
10	Water passenger transport services	0	0	0	0	0			
11	Air passenger transport services	0	0	0	0	0			
12	Transport equipment rental services	0	0	0	0	0			
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0			
14	Cultural and religious services	0	0	0	0	0			
15	Sports and other recreational services	0	0	0	0	0			
16	Health and medical related services	1314111	0	0	0	0			
17	Readymade garments	0	72550	0	0	0			
18	Processed Food	0	0	3338943	10841	0			
19	Alcohol & Tobacco products	0	0	6037	686725	0			
20	Travel related consumer goods	0	930	287	0	2361			
21	Footwear	0	0	0	0	3485			
22	Soaps, cosmetics and glycerin	0	0	7748	9	0			
23	Gems and jewellery	0	0	0	0	33527			
24	Books, journals, magazines, stationery etc.	0	0	0	0	0			
	Total Value of Output (Rs. Lakh)	1314111	87306	3449874	725639	49433			

Table 5: Production Account of Tourism Industries - Supply Table - Telangana, 2015-16
(Rs. Lakh) (Cont.)

S. No.	Industry		Industry as per the Serial No. given in first column						
1	Agriculture and allied	0	0	0	0	9047667			
2	Mining, other manufacturing, construction, electricity, gas and water supply	2	350252	5660	650942	33734115			
3	Trade	0	7668	456	5399	9436574			
4	Transport freight services	0	0	0	0	4490707			
5	All non-tourism specific services	0	265	660	266	29780567			
6	Accommodation services/Hotels	0	0	0	0	428650			
7	Food and beverage serving services/Restaurants	0	0	0	0	2009004			
8	Railway passenger transport services	0	0	0	0	60554			
9	Road passenger transport services	0	0	0	0	1853394			
10	Water passenger transport services	0	0	0	0	0			
11	Air passenger transport services	0	0	0	0	444921			
12	Transport equipment rental services	0	0	0	0	4427			
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	102899			
14	Cultural and religious services	0	0	0	0	8854			
15	Sports and other recreational services	0	0	0	0	193459			
16	Health and medical related services	0	0	0	0	1314111			
17	Readymade garments	0	0	0	0	182808			
18	Processed Food	0	8253	0	0	3426046			
19	Alcohol & Tobacco products	0	322	0	0	695735			
20	Travel related consumer goods	4	342	324	877	41456			
21	Footwear	7	0	0	0	5864			
22	Soaps, cosmetics and glycerin	0	42914	0	0	445037			
23	Gems and jewellery	0	0	37188	0	254483			
24	Books, journals, magazines, stationery etc.	0	0	0	30369	176934			
	Total Value of Output (Rs. Lakh)	13	410016	44288	687854	98138267			

S. No.	Industry	Product taxes less Subsidies	Output at Producer price (OP)	Trade and Transport Margins (TTM)	Output at Purchaser's price (OP + TTM)
1	Agriculture and allied	-600810	8446857	2851826	11298683
2	Mining, other manufacturing, construction, electricity, gas and water supply	3780714	37514829	8823662	46338492
3	Trade	8153	9444727	-9444727	0
4	Transport freight services	55781	4546488	-4546488	0
5	All non-tourism specific services	794602	30575169	0	30575169
6	Accommodation services/Hotels	2210	430860	0	430860
7	Food and beverage serving services/Restaurants	10373	2019377	0	2019377
8	Railway passenger transport services	132	60685	0	60685
9	Road passenger transport services	11905	1865299	0	1865299
10	Water passenger transport services	15454	15454	0	15454
11	Air passenger transport services	5173	450094	0	450094
12	Transport equipment rental services	26	4453	0	4453
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	3516	106415	0	106415
14	Cultural and religious services	-19	8835	0	8835
15	Sports and other recreational services	58879	252337	0	252337
16	Health and medical related services	-2067	1312045	0	1312045
17	Readymade garments	45423	228231	45422	273653
18	Processed Food	163457	3589503	1851640	5441143
19	Alcohol & Tobacco products	282731	978465	211053	1189518
20	Travel related consumer goods	16253	57709	17108	74817
21	Footwear	10536	16400	3756	20156
22	Soaps, cosmetics and glycerin	62407	507444	124269	631713
23	Gems and jewellery	30356	284839	16684	301523
24	Books, journals, magazines, stationery etc.	1471	178405	45797	224202
	Total Value of Output (Rs. Lakh)	4756655	102894922	0	102894922

S.	Industry	Industry as per the Serial No. given in first column							
No.	Industry	1	2	3	4	5			
1	Agriculture and allied	866838	1226891	0	51917	438676			
2	Mining, other manufacturing, construction, electricity, gas and water supply	318062	13539126	1383281	1469510	8966989			
3	Trade	0	0	0	0	0			
4	Transport freight services	0	0	0	0	0			
5	All non-tourism specific services	95925	473271	560133	684004	4224520			
6	Accommodation services/Hotels	453	21913	29700	8532	59565			
7	Food and beverage serving services/Restaurants	1227	102852	139405	40046	279582			
8	Railway passenger transport services	0	29273	2103	503	15017			
9	Road passenger transport services	16455	91487	147107	7362	107003			
10	Water passenger transport services	0	0	3703	166	13488			
11	Air passenger transport services	0	95817	19138	7472	175127			
12	Transport equipment rental services	13	4709	622	322	8355			
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	58916	30323	15757	23655			
14	Cultural and religious services	0	1	0	5	51			
15	Sports and other recreational services	664	6783	3388	2327	12658			
16	Health and medical related services	1	226	0	0	2409			
17	Readymade garments	806	10594	8310	31845	67285			
18	Processed Food	290217	60090	629	0	251624			
19	Alcohol & Tobacco products	0	8887	0	0	9276			
20	Travel related consumer goods	563	38064	4527	3745	32734			
21	Footwear	0	20288	0	0	562			
22	Soaps, cosmetics and glycerin	0	22371	5897	0	914			
23	Gems and jewellery	0	121884	0	0	0			
24	Books, journals, magazines, stationery etc.	2655	20853	4821	22322	57066			
	Total IIUSE at PP	1593879	15954295	2343086	2345835	14746556			
	Output at BP	9164532	23734908	8967170	4351622	39906254			
	GVA	7570653	7780613	6624084	2005788	25159698			

S.	Industry	Industry as per the Serial No. given in first column						
No.		6	7	8	9	10		
1	Agriculture and allied	107719	681202	0	33313	0		
2	Mining, other manufacturing, construction, electricity, gas and water supply	20374	128841	15079	714488	0		
3	Trade	0	0	0	0	0		
4	Transport freight services	0	0	0	0	0		
5	All non-tourism specific services	10071	63688	3334	319854	0		
6	Accommodation services/Hotels	33	206	78	3899	0		
7	Food and beverage serving services/Restaurants	153	965	367	18300	0		
8	Railway passenger transport services	3	20	0	25	0		
9	Road passenger transport services	121	768	0	8	0		
10	Water passenger transport services	1	5	0	5	0		
11	Air passenger transport services	30	192	3	240	0		
12	Transport equipment rental services	1	8	0	206	0		
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	133	844	0	999	0		
14	Cultural and religious services	0	2	0	1	0		
15	Sports and other recreational services	565	3574	117	233	0		
16	Health and medical related services	0	0	0	0	0		
17	Readymade garments	257	1626	636	9176	0		
18	Processed Food	70805	447761	0	0	0		
19	Alcohol & Tobacco products	6632	41937	0	0	0		
20	Travel related consumer goods	29	185	65	1386	0		
21	Footwear	0	0	0	0	0		
22	Soaps, cosmetics and glycerin	2321	14677	0	0	0		
23	Gems and jewellery	0	0	0	0	0		
24	Books, journals, magazines, stationery etc.	14	88	749	5708	0		
	Total IIUSE at PP	219262	1386587	20429	1107842	0		
	Output at BP	332836	2104818	60554	1992479	0		
	GVA	113574	718231	40125	884637	0		

S.	Industry	Industry	/ as per t	he Serial column	No. given	in first
No.		11	12	13	14	15
1	Agriculture and allied	0	0	0	0	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	221470	790	29321	2521	15526
3	Trade	0	0	0	0	0
4	Transport freight services	0	0	0	0	0
5	All non-tourism specific services	85045	430	17556	273	61127
6	Accommodation services/Hotels	1346	2	215	9	97
7	Food and beverage serving services/Restaurants	6316	10	1011	40	456
8	Railway passenger transport services	36	0	49	9	245
9	Road passenger transport services	10	41	789	22	2053
10	Water passenger transport services	6	0	17	2	54
11	Air passenger transport services	348	0	757	18	343
12	Transport equipment rental services	18	1	0	1	48
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	45	1524	21	432
14	Cultural and religious services	1	0	0	0	9
15	Sports and other recreational services	968	24	150	8	2071
16	Health and medical related services	0	0	0	0	25
17	Readymade garments	14159	24	1456	61	520
18	Processed Food	0	0	0	0	0
19	Alcohol & Tobacco products	0	0	0	0	0
20	Travel related consumer goods	1190	11	129	33	150
21	Footwear	0	0	0	0	0
22	Soaps, cosmetics and glycerin	0	0	0	0	0
23	Gems and jewellery	0	0	0	0	0
24	Books, journals, magazines, stationery etc.	11702	24	992	15	515
	Total IIUSE at PP	342617	1402	53966	3032	83671
	Output at BP	444921	4427	102899	8854	193459
	GVA	102304	3025	48933	5823	109788

Table 5: Production Account of Tourism Industries - Use Table - Telangana 2015-16 (Rs.
Lakh) (Cont.)

S. No.	Industry	In	Industry as per the Serial No. given in first column						
5.110		16	17		18	19	20		
1	Agriculture and allied		0	0	2849577	286823	4278		
2	Mining, other manufacturing, construction, electricity, gas and water supply		442442	51960	54855	46676	10892		
3	Trade		0	0	0	0	0		
4	Transport freight services		0	0	0	0	0		
5	All non-tourism specific services		46372	1618	7120	6736	238		
6	Accommodation services/Hotels		130	0	0	0	0		
7	Food and beverage serving services/Restaur	ants	609	0	0	0	0		
8	Railway passenger transport services		0	38	179	581	2		
9	Road passenger transport services		153	226	947	1874	9		
10	Water passenger transport services		93	0	0	0	0		
11	Air passenger transport services		3383	0	0	0	0		
12	Transport equipment rental services		0	12	31	4	4		
13	Travel agencies and other reservation service Supporting and auxiliary transport activities		10	0	0	0	0		
14	Cultural and religious services		0	0	0	0	0		
15	Sports and other recreational services		695	0	0	0	0		
16	Health and medical related services		4281	0	0	0	0		
17	Readymade garments		2029	676	0	0	5		
18	Processed Food		0	0	72444	16569	0		
19	Alcohol & Tobacco products		0	0	581	59661	0		
20	Travel related consumer goods		41	3981	21	8	227		
21	Footwear		0	0	0	0	9		
22	Soaps, cosmetics and glycerin		0	18	0	0	0		
23	Gems and jewellery		0	1	0	0	27210		
24	Books, journals, magazines, stationery etc.		717	89	8	47	0		
	Total IIUSE at PP		500954	58618	2985763	418979	42875		
	Output at BP		1314111	87306	3449874	725639	49433		
	GVA		813157	28688	464111	306659	6558		

S.	Industry	Ind	ustry as per given in fi		
No.			22	23	24
1	Agriculture and allied	8	9847	1	69419
2	Mining, other manufacturing, construction, electricity, gas and water supply	1	302190	9653	447414
3	Trade	0	0	0	0
4	Transport freight services	0	0	0	0
5	All non-tourism specific services	0	4068	100	13544
6	Accommodation services/Hotels	0	0	0	0
7	Food and beverage serving services/Restaurants	0	0	0	0
8	Railway passenger transport services	0	50	0	250
9	Road passenger transport services	0	223	1	944
10	Water passenger transport services	0	0	0	0
11	Air passenger transport services	0	0	0	0
12	Transport equipment rental services	0	19	0	79
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0
14	Cultural and religious services	0	0	0	0
15	Sports and other recreational services	0	5	0	0
16	Health and medical related services	0	0	0	0
17	Readymade garments	0	0	0	14
18	Processed Food	0	1864	0	0
19	Alcohol & Tobacco products	0	201	0	0
20	Travel related consumer goods	0	26	49	193
21	Footwear	0	0	0	0
22	Soaps, cosmetics and glycerin	0	2268	0	0
23	Gems and jewellery	0	0	30181	0
24	Books, journals, magazines, stationery etc.	0	46	0	2413
	Total IIUSE at PP	9	320806	39984	534268
	Output at BP	13	410016	44288	687854
	GVA	4	89210	4304	153586

 $Source: \textit{NCAER} \ computation$ 

Table 5: Production Account of Tourism Industries - Use Table - Telangana 2015-16 (Rs.
Lakh) (Cont.)

S. No.	Industry	IIUSE	TFUSE	Total Use
1	Agriculture and allied	6626510	4672173	11298683
2	Mining, other manufacturing, construction, electricity, gas and water supply	28191459	18147032	46338492
3	Trade	0	0	0
4	Transport freight services	0	0	0
5	All non-tourism specific services	6679026	23896142	30575169
6	Accommodation services/Hotels	126175	304684	430860
7	Food and beverage serving services/Restaurants	591338	1428039	2019377
8	Railway passenger transport services	48384	12302	60685
9	Road passenger transport services	377604	1487695	1865299
10	Water passenger transport services	17541	-2087	15454
11	Air passenger transport services	302867	147227	450094
12	Transport equipment rental services	14455	-10002	4453
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	132658	-26243	106415
14	Cultural and religious services	71	8764	8835
15	Sports and other recreational services	34231	218107	252337
16	Health and medical related services	6942	1305103	1312045
17	Readymade garments	149479	124174	273653
18	Processed Food	1212002	4229141	5441143
19	Alcohol & Tobacco products	127174	1062344	1189518
20	Travel related consumer goods	87357	-12540	74817
21	Footwear	20859	-703	20156
22	Soaps, cosmetics and glycerin	48464	583249	631713
23	Gems and jewellery	179276	122247	301523
24	Books, journals, magazines, stationery etc.	130844	93357	224202
	Total IIUSE at PP	45104716	57790206	102894922
	Output at BP	98138267		
	GVA	53033551		

		Industry as per the Serial No. given in first column							
S. No.	Industry	1	TS*	2	TS	* 3	TS *		
1	Agriculture and allied	9047667	0	0	0	0	0		
2	Mining, other manufacturing, construction, electricity, gas and water supply	116865	0	22325097	0	0	0		
3	Trade	0	0	449692	0	8875920	1021		
4	Transport freight services	0	0	0	0	0	0		
5	All non-tourism specific services	0	0	15799	204	91251	1179		
6	Accommodation services/Hotels	0	0	0	0	0	0		
7	Food and beverage serving services/Restaurants	0	0	0	0	0	0		
8	Railway passenger transport services	0	0	0	0	0	0		
9	Road passenger transport services	0	0	0	0	0	0		
10	Water passenger transport services	0	0	0	0	0	0		
11	Air passenger transport services	0	0	0	0	0	0		
12	Transport equipment rental services	0	0	0	0	0	0		
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0	0		
14	Cultural and religious services	0	0	0	0	0	0		
15	Sports and other recreational services	0	0	0	0	0	0		
16	Health and medical related services	0	0	0	0	0	0		
17	Readymade garments	0	0	110258	0	0	0		
18	Processed Food	0	0	68010	0	0	0		
19	Alcohol & Tobacco products	0	0	2651	0	0	0		
20	Travel related consumer goods	0	0	36330	0	0	0		
21	Footwear	0	0	2371	0	0	0		
22	Soaps, cosmetics and glycerin	0	0	394366	0	0	0		
23	Gems and jewellery	0	0	183768	0	0	0		
24	Books, journals, magazines, stationery etc.	0	0	146565	0	0	0		
	Total Value of Output (Rs. Lakh)	9164532	0	23734908	204	8967170	2199		
	Intermediate consumption (Rs. Lakh)	1593879	0	15954295	137	2343086	575		
	GVA (Rs. Lakh)	7570653	0	7780613	67	6624084	1625		
	Tourism Industry Ratios (%)		0		0		0		

Note - TS\* (Tourism share) Source: NCAER Computations

(Cont.)									
S.	Industry	Industry as per the Serial No. given in first column							
No.	Industry	4	TS*	5	TS*	6	TS*		
1	Agriculture and allied	0	0	0	0	0	0		
2	Mining, other manufacturing, construction, electricity, gas and water supply	0	0	10236667	0	0	0		
3	Trade	0	0	0	0	0	0		
4	Transport freight services	4166283	0	0	0	0	0		
5	All non-tourism specific services	0	0	2966958 8	383256	0	0		
6	Accommodation services/Hotels	0	0	0	0	321487	231471		
7	Food and beverage serving services/Restaurants	0	0	0	0	11348	6044		
8	Railway passenger transport services	0	0	0	0	0	0		
9	Road passenger transport services	185339	52014	0	0	0	0		
10	Water passenger transport services	0	0	0	0	0	0		
11	Air passenger transport services	0	0	0	0	0	0		
12	Transport equipment rental services	0	0	0	0	0	0		
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0	0		
14	Cultural and religious services	0	0	0	0	0	0		
15	Sports and other recreational services	0	0	0	0	0	0		
16	Health and medical related services	0	0	0	0	0	0		
17	Readymade garments	0	0	0	0	0	0		
18	Processed Food	0	0	0	0	0	0		
19	Alcohol & Tobacco products	0	0	0	0	0	0		
20	Travel related consumer goods	0	0	0	0	0	0		
21	Footwear	0	0	0	0	0	0		
22	Soaps, cosmetics and glycerin	0	0	0	0	0	0		
23	Gems and jewellery	0	0	0	0	0	0		
24	Books, journals, magazines, stationery etc.	0	0	0	0	0	0		
	Total Value of Output (Rs. Lakh)	4351622	52014	39906254	383256	332836	237515		
	Intermediate consumption (Rs. Lakh)	2345835	28039	14746556	141624	219262	156467		
	GVA (Rs. Lakh)	2005788	23975	25159698	241631	113574	81048		
	Tourism Industry Ratios (%)		1		1		71		
Noto	TS* (Tourism share)	1		I					

Note - TS\* (Tourism share) Source: NCAER Computations

(Cont.)									
S.	Industry	Industry as per the Serial No. given in first column							
No.	industry	7	TS*	8	TS*	9	TS*		
1	Agriculture and allied	0	0	0	0	0	0		
2	Mining, other manufacturing, construction, electricity, gas and water supply	0	0	0	0	0	0		
3	Trade	0	0	0	0	0	0		
4	Transport freight services	0	0	0	0	324424	0		
5	All non-tourism specific services	0	0	0	0	0	0		
6	Accommodation services/Hotels	107162	77157	0	0	0	0		
7	Food and beverage serving services/Restaurants	1997655	1063883	0	0	0	0		
8	Railway passenger transport services	0	0	60554	35083	0	0		
9	Road passenger transport services	0	0	0	0	1668055	468129		
10	Water passenger transport services	0	0	0	0	0	0		
11	Air passenger transport services	0	0	0	0	0	0		
12	Transport equipment rental services	0	0	0	0	0	0		
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0	0		
14	Cultural and religious services	0	0	0	0	0	0		
15	Sports and other recreational services	0	0	0	0	0	0		
16	Health and medical related services	0	0	0	0	0	0		
17	Readymade garments	0	0	0	0	0	0		
18	Processed Food	0	0	0	0	0	0		
19	Alcohol & Tobacco products	0	0	0	0	0	0		
20	Travel related consumer goods	0	0	0	0	0	0		
21	Footwear	0	0	0	0	0	0		
22	Soaps, cosmetics and glycerin	0	0	0	0	0	0		
23	Gems and jewellery	0	0	0	0	0	0		
24	Books, journals, magazines, stationery etc.	0	0	0	0	0	0		
	Total Value of Output (Rs. Lakh)	2104818	1141040	60554	35083	1992479	468129		
	Intermediate consumption (Rs. Lakh)	1386587	751681	20429	11836	1107842	260285		
	GVA (Rs. Lakh)	718231	389359	40125	23247	884637	207844		
	Tourism Industry Ratios (%)		54		58		23		

Note - TS\* (Tourism share)

(Cont.)										
S.	Industry	Industry as per the Serial No. given in first column								
No.	industry	10	TS*	11	TS*	12	TS*			
1	Agriculture and allied	0	0	0	0	0	0			
2	Mining, other manufacturing, construction, electricity, gas and water supply	0	0	0	0	0	0			
3	Trade	0	0	0	0	0	0			
4	Transport freight services	0	0	0	0	0	0			
5	All non-tourism specific services	0	0	0	0	0	0			
6	Accommodation services/Hotels	0	0	0	0	0	0			
7	Food and beverage serving services/Restaurants	0	0	0	0	0	0			
8	Railway passenger transport services	0	0	0	0	0	0			
9	Road passenger transport services	0	0	0	0	0	0			
10	Water passenger transport services	0	0	0	0	0	0			
11	Air passenger transport services	0	0	444921	360815	0	0			
12	Transport equipment rental services	0	0	0	0	4427	1682			
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0	0			
14	Cultural and religious services	0	0	0	0	0	0			
15	Sports and other recreational services	0	0	0	0	0	0			
16	Health and medical related services	0	0	0	0	0	0			
17	Readymade garments	0	0	0	0	0	0			
18	Processed Food	0	0	0	0	0	0			
19	Alcohol & Tobacco products	0	0	0	0	0	0			
20	Travel related consumer goods	0	0	0	0	0	0			
21	Footwear	0	0	0	0	0	0			
22	Soaps, cosmetics and glycerin	0	0	0	0	0	0			
23	Gems and jewellery	0	0	0	0	0	0			
24	Books, journals, magazines, stationery etc.	0	0	0	0	0	0			
	Total Value of Output (Rs. Lakh)	0	0	444921	360815	4427	1682			
	Intermediate consumption (Rs. Lakh)	0	0	342617	277850	1402	533			
	GVA (Rs. Lakh)	0	0	102304	82965	3025	1149			
	Tourism Industry Ratios (%)		0		81		38			
Note - '	rS* (Tourism share)	1	1	1	1	1	1			

Note - TS\* (Tourism share)

(Cont.)									
S.		Industry as per the Serial No. given in first column							
No.	Industry	13	TS*	14	TS*	15	TS*		
1	Agriculture and allied	0	0	0	0	0	0		
2	Mining, other manufacturing, construction, electricity, gas and water supply	0	0	0	0	0	0		
3	Trade	0	0	0	0	0	0		
4	Transport freight services	0	0	0	0	0	0		
5	All non-tourism specific services	0	0	0	0	0	0		
6	Accommodation services/Hotels	0	0	0	0	0	0		
7	Food and beverage serving services/Restaurants	0	0	0	0	0	0		
8	Railway passenger transport services	0	0	0	0	0	0		
9	Road passenger transport services	0	0	0	0	0	0		
10	Water passenger transport services	0	0	0	0	0	0		
11	Air passenger transport services	0	0	0	0	0	0		
12	Transport equipment rental services	0	0	0	0	0	0		
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	102899	52739	0	0	0	0		
14	Cultural and religious services	0	0	8854	2531	0	0		
15	Sports and other recreational services	0	0	0	0	193459	1696		
16	Health and medical related services	0	0	0	0	0	0		
17	Readymade garments	0	0	0	0	0	0		
18	Processed Food	0	0	0	0	0	0		
19	Alcohol & Tobacco products	0	0	0	0	0	0		
20	Travel related consumer goods	0	0	0	0	0	0		
21	Footwear	0	0	0	0	0	0		
22	Soaps, cosmetics and glycerin	0	0	0	0	0	0		
23	Gems and jewellery	0	0	0	0	0	0		
24	Books, journals, magazines, stationery etc.	0	0	0	0	0	0		
	Total Value of Output (Rs. Lakh)	102899	52739	8854	2531	193459	1696		
	Intermediate consumption (Rs. Lakh)	53966	27659	3032	867	83671	734		
	GVA (Rs. Lakh)	48933	25080	5823	1665	109788	963		
	Tourism Industry Ratios (%)	1	51		29		1		
Noto	- TS* (Tourism share)	1	I	I	I	I	1		

Note - TS\* (Tourism share) Source: NCAER Computations

		ont.)	strv as ner	the Seri	al No	given in fi	rst
S.	Industry	maus	sery as per	colum		Siven in m	
No.		16	TS*	17	TS*	18	TS*
1	Agriculture and allied	0	0	0	0	0	0
2	Mining, other manufacturing, construction, electricity, gas and water supply		0	12863	0	15256	0
3	Trade	0	0	959	0	81161	0
4	Transport freight services	0	0	0	0	0	0
5	All non-tourism specific services	0	0	4	0	442	6
6	Accommodation services/Hotels	0	0	0	0	0	0
7	Food and beverage serving services/Restaurants	0	0	0	0	0	0
8	Railway passenger transport services	0	0	0	0	0	0
9	Road passenger transport services	0	0	0	0	0	0
10	Water passenger transport services	0	0	0	0	0	0
11	Air passenger transport services	0	0	0	0	0	0
12	Transport equipment rental services	0	0	0	0	0	0
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0	0
14	Cultural and religious services	0	0	0	0	0	0
15	Sports and other recreational services	0	0	0	0	0	0
16	Health and medical related services	1314111	212090	0	0	0	0
17	Readymade garments	0	0	72550	0	0	0
18	Processed Food	0	0	0	0	3338943	0
19	Alcohol & Tobacco products	0	0	0	0	6037	0
20	Travel related consumer goods	0	0	930	0	287	0
21	Footwear	0	0	0	0	0	0
22	Soaps, cosmetics and glycerin	0	0	0	0	7748	0
23	Gems and jewellery	0	0	0	0	0	0
24	Books, journals, magazines, stationery etc.	0	0	0	0	0	0
	Total Value of Output (Rs. Lakh)	1314111	212090	87306	0	3449874	6
	Intermediate consumption (Rs. Lakh)	500954	80851	58618	0	2985763	5
	GVA (Rs. Lakh)	813157	131239	28688	0	464111	1
	Tourism Industry Ratios (%)		16		0		0
Noto /	TS* (Tourism share)	1 1				L	

Note - TS\* (Tourism share) Source: NCAER Computations

	(Cont.)									
S.	Industry	Industry as per the Serial No. given in first column								
No.		19	TS*	20	TS*	21	TS*			
1	Agriculture and allied	0	0	0	0	0	0			
2	Mining, other manufacturing, construction, electricity, gas and water supply	11606	0	8906	0	2	0			
3	Trade	14762	0	558	0	0	0			
4	Transport freight services	0	0	0	0	0	0			
5	All non-tourism specific services	1697	22	596	8	0	0			
6	Accommodation services/Hotels	0	0	0	0	0	0			
7	Food and beverage serving services/Restaurants	0	0	0	0	0	0			
8	Railway passenger transport services	0	0	0	0	0	0			
9	Road passenger transport services	0	0	0	0	0	0			
10	Water passenger transport services	0	0	0	0	0	0			
11	Air passenger transport services	0	0	0	0	0	0			
12	Transport equipment rental services	0	0	0	0	0	0			
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0	0			
14	Cultural and religious services	0	0	0	0	0	0			
15	Sports and other recreational services	0	0	0	0	0	0			
16	Health and medical related services	0	0	0	0	0	0			
17	Readymade garments	0	0	0	0	0	0			
18	Processed Food	10841	0	0	0	0	0			
19	Alcohol & Tobacco products	686725	0	0	0	0	0			
20	Travel related consumer goods	0	0	2361	0	4	0			
21	Footwear	0	0	3485	0	7	0			
22	Soaps, cosmetics and glycerin	9	0	0	0	0	0			
23	Gems and jewellery	0	0	33527	0	0	0			
24	Books, journals, magazines, stationery etc.	0	0	0	0	0	0			
	Total Value of Output (Rs. Lakh)	725639	22	49433	8	13	0			
	Intermediate consumption (Rs. Lakh)	418979	13	42875	7	9	0			
	GVA (Rs. Lakh)	306659	9	6558	1	4	0			
	Tourism Industry Ratios (%)		0		0		0			
Note - '	TS* (Tourism share)	1		1	1	1	1			

Note - TS\* (Tourism share)

	1	(Cont.)							
S.	Inductor	Industry as per the Serial No. given in first column							
No.	Industry	22	TS*	23	TS*	24	TS*		
1	Agriculture and allied	0	0	0	0	0	0		
2	Mining, other manufacturing, construction, electricity, gas and water supply	350252	0	5660	0	650942	0		
3	Trade	7668	0	456	0	5399	0		
4	Transport freight services	0	0	0	0	0	0		
5	All non-tourism specific services	265	3	660	9	266	3		
6	Accommodation services/Hotels	0	0	0	0	0	0		
7	Food and beverage serving services/Restaurants	0	0	0	0	0	0		
8	Railway passenger transport services	0	0	0	0	0	0		
9	Road passenger transport services	0	0	0	0	0	0		
10	Water passenger transport services	0	0	0	0	0	0		
11	Air passenger transport services	0	0	0	0	0	0		
12	Transport equipment rental services	0	0	0	0	0	0		
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	0	0		
14	Cultural and religious services	0	0	0	0	0	0		
15	Sports and other recreational services	0	0	0	0	0	0		
16	Health and medical related services	0	0	0	0	0	0		
17	Readymade garments	0	0	0	0	0	0		
18	Processed Food	8253	0	0	0	0	0		
19	Alcohol & Tobacco products	322	0	0	0	0	0		
20	Travel related consumer goods	342	0	324	0	877	0		
21	Footwear	0	0	0	0	0	0		
22	Soaps, cosmetics and glycerin	42914	0	0	0	0	0		
23	Gems and jewellery	0	0	37188	0	0	0		
24	Books, journals, magazines, stationery etc.	0	0	0	0	30369	0		
	Total Value of Output (Rs. Lakh)	410016	3	44288	9	687854	3		
	Intermediate consumption (Rs. Lakh)	320806	3	39984	8	534268	3		
	GVA (Rs. Lakh)	89210	1	4304	1	153586	1		
	Tourism Industry Ratios (%)		0		0		0		
M.L.	TS* (Tourism share)	1		1	1	1	1		

Note - TS\* (Tourism share)

		(Cont.	.)	-			
S. No.	Industry	Total Domestic Supply at BP	Tourism share	Product taxes less Subsidies	Tourism share	Output at Producer price (OP)	Tourism share
1	Agriculture and allied	9047667	0	- 600810	0	8446857	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	33734115	0	3780714	0	37514829	0
3	Trade	9436574	1021	8153	0	9444727	1021
4	Transport freight services	4490707	0	55781	0	4546488	0
5	All non-tourism specific services	2978056 7	384689	794602	10264	30575169	394954
6	Accommodation services/Hotels	428650	308628	2210	1591	430860	310219
7	Food and beverage serving services/Restaurants	2009004	106992 7	10373	5524	2019377	1075451
8	Railway passenger transport services	60554	35083	132	76	60685	35159
9	Road passenger transport services	1853394	520143	11905	3341	1865299	523484
10	Water passenger transport services	0	0	15454	1110	15454	1110
11	Air passenger transport services	444921	360815	5173	4195	450094	365010
12	Transport equipment rental services	4427	1682	26	10	4453	1692
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	102899	52739	3516	1802	106415	54541
14	Cultural and religious services	8854	2531	-19	-5	8835	2526
15	Sports and other recreational services	193459	1696	58879	516	252337	2213
16	Health and medical related services	1314111	212090	-2067	-334	1312045	211757
17	Readymade garments	182808	0	45423	16124	228231	16124
18	Processed Food	3426046	0	163457	1253	3589503	1253
19	Alcohol & Tobacco products	695735	0	282731	5357	978465	5357
20	Travel related consumer goods	41456	0	16253	1706	57709	1706
21	Footwear	5864	0	10536	2018	16400	2018
22	Soaps, cosmetics and glycerin	445037	0	62407	261	507444	261
23	Gems and jewellery	254483	0	30356	3775	284839	3775
24	Books, journals, magazines, stationery etc.	176934	0	1471	64	178405	64
	Total Value of Output (Rs. Lakh)	9813826 7	2951045	4756655	58650	102894922	300969 5
	Intermediate consumption (Rs. Lakh)	45104716	1739176				
	GVA (Rs. Lakh)	53033551	1211868				
	Tourism Industry Ratios (%) TS* (Tourism share)		2				

Note - TS\* (Tourism share)

	(Co	ont.)			
S. No.	Industry	Trade and Transport Margins (TTM)	Tourism share	Output at Purchaser's price (OP + TTM)	Tourism share
1	Agriculture and allied	2851826	0	11298683	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	8823662	0	46338492	0
3	Trade	-9444727	-1021	0	0
4	Transport freight services	-4546488	0	0	0
5	All non-tourism specific services	0	0	30575169	394954
6	Accommodation services/Hotels	0	0	430860	310219
7	Food and beverage serving services/Restaurants	0	0	2019377	1075451
8	Railway passenger transport services	0	0	60685	35159
9	Road passenger transport services	0	0	1865299	523484
10	Water passenger transport services	0	0	15454	1110
11	Air passenger transport services	0	0	450094	365010
12	Transport equipment rental services	0	0	4453	1692
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	106415	54541
14	Cultural and religious services	0	0	8835	2526
15	Sports and other recreational services	0	0	252337	2213
16	Health and medical related services	0	0	1312045	211757
17	Readymade garments	45422	136	273653	16261
18	Processed Food	1851640	278	5441143	1531
19	Alcohol & Tobacco products	211053	113	1189518	5470
20	Travel related consumer goods	17108	44	74817	1750
21	Footwear	3756	269	20156	2287
22	Soaps, cosmetics and glycerin	124269	60	631713	321
23	Gems and jewellery	16684	22	301523	3798
24	Books, journals, magazines, stationery etc.	45797	99	224202	163
	Total Value of Output (Rs. Lakh)	0	0	102894922	3009695
	Intermediate consumption (Rs. Lakh)				
	GVA (Rs. Lakh)				
	Tourism Industry Ratios (%)				
Noto TS	* (Tourism share)			1	I

Note - TS\* (Tourism share) Source: NCAER Computations

	Number of jobs					
Item	Self Employed	Employees	Total			
1. Accommodation services/Hotels	42123	47584	89707			
2 Food and beverage serving services/Restaurants	80900	41222	122122			
3 Railway passenger transport services	0	43608	43608			
4 Road passenger transport services	258892	184156	443048			
5 Water passenger transport services	0	1309	1309			
6 Air passenger transport services	0	17039	17039			
7 Transport equipment rental services	0	848	848			
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	10378	47655	58033			
9 Cultural and religious services	24814	34790	59603			
10 Sports and other recreational services	7713	9815	17528			
11 Health and medical related services	6945027	13144177	20089204			
Total jobs in tourism characteristic industries	6.38	4.47	5.13			

States		Households	5		Persons		
	Rural	Urban	Total	Rural	Urban	Total	
Jammu & Kashmir	15,20,631	4,85,388	20,06,019	76,49,291	22,61,378	99,10,670	
Himachal Pradesh	13,64,113	214051	15,78,164	58,80,223	6,49,267	65,29,490	
Punjab	34,58,705	25,74,170	60,32,875	1,63,33,883	95,41,305	2,58,75,188	
Chandigarh	7730	192670	200400	33,612	7,48,512	7,82,124	
Uttarakhand	14,65,093	557306	20,22,398	68,30,221	23,58,918	91,89,139	
Haryana	30,23,247	18,74,356	48,97,603	1,57,42,452	82,18,356	2,39,60,808	
Delhi	101604	32,25,854	33,27,458	4,30,017	1,32,62,782	1,36,92,799	
Rajasthan	96,31,191	33,13,974	1,29,45,164	4,96,91,162	1,51,49,690	6,48,40,852	
Uttar Pradesh	2,66,30,004	81,32,969	3,47,62,973	14,15,73,352	3,93,92,178	18,09,65,530	
Bihar	1,69,74,924	20,37,288	1,90,12,212	8,33,21,237	98,64,355	9,31,85,593	
Sikkim	103294	36105	1,39,399	4,05,490	1,12,410	5,17,900	
Arunachal Pradesh	1,92,684	51282	2,43,967	9,18,894	2,00,684	11,19,579	
Nagaland	2,62,575	102591	3,65,166	12,53,508	4,79,636	17,33,144	
Manipur	3,78,132	1,68,516	5,46,647	19,08,504	8,04,656	27,13,160	
Mizoram	114656	91,470	2,06,126	5,17,140	4,21,372	9,38,513	
Tripura	6,65,001	193774	8,58,775	26,47,650	6,93,524	33,41,174	
Meghalaya	4,97,989	125194	6,23,183	24,47,298	5,16,936	29,64,233	
Assam	54,79,336	7,71,818	62,51,154	2,60,21,852	30,35,793	2,90,57,646	
West Bengal	1,42,58,071	64,64,619	2,07,22,690	5,94,52,706	2,41,77,905	8,36,30,611	
Jharkhand	47,61,190	14,45,003	62,06,194	2,42,50,347	64,27,222	3,06,77,569	
Odisha	81,22,539	18,01,574	99,24,113	3,44,03,572	66,39,480	4,10,43,053	
Chhattisgarh	43,67,924	11,86,143	55,54,067	1,91,87,915	48,00,730	2,39,88,645	
Madhya Pradesh	1,04,79,028	38,58,775	1,43,37,803	5,05,38,282	1,71,85,652	6,77,23,934	
Gujarat	67,24,622	53,23,086	1,20,47,708	3,24,48,409	2,40,21,335	5,64,69,744	
Daman & Diu	13466	70288	83754	48,129	2,52,260	3,00,389	
D & N Haveli	44176	42550	86726	1,53,857	1,51,894	3,05,751	
Maharashtra	1,30,14,548	1,13,25,283	2,43,39,831	5,90,20,714	4,62,80,284	10,53,00,998	
Andhra Pradesh	89,65,874	42,34,416	1,32,00,290	3,20,91,824	1,42,30,501	4,63,22,325	
Karnataka	81,53,194	60,59,261	1,42,12,455	3,54,39,816	2,22,30,714	5,76,70,530	
Goa	125329	238769	364098	5,36,144	8,08,796	13,44,940	
Lakshadweep	2085	9752	11837	10,705	49,726	60,431	
Kerala	43,65,286	35,97,077	79,62,363	1,75,03,582	1,35,51,023	3,10,54,606	
Tamil Nadu	99,19,515	96,95,734	1,96,15,249	3,52,91,111	3,20,81,613	6,73,72,724	
Puducherry	108799	216413	325212	3,56,291	7,52,723	11,09,014	
A & N Islands	64791	44222	109013	2,42,504	1,45,529	3,88,034	
Telangana	50,61,181	36,17,954	86,79,135	1,73,94,810	1,25,29,834	2,99,24,644	
Total	170422524	83379697	253802221	78,19,76,506	33,40,28,976	1,11,60,05,481	

TSA Table 10.1: State-wise Estimated number of households and persons
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	Trips p	er 100 Hou	seholds	Rai	Rank among states			
States	Rural	Urban	Total	Rural	Urban	Total		
Jammu & Kashmir	33.2	27.2	31.8	7	8	5		
Himachal Pradesh	25.8	19.4	24.9	11	21	14		
Punjab	25.0	31.4	27.7	13	7	10		
Chandigarh	12.2	14.5	14.4	33	33	33		
Uttarakhand	22.8	20.3	22.1	18	19	21		
Haryana	20.7	25.5	22.6	22	12	19		
Delhi	7.6	23.5	23.1	36	15	18		
Rajasthan	23.8	21.0	23.1	17	17	17		
Uttar Pradesh	18.0	18.5	18.1	29	25	29		
Bihar	17.2	17.1	17.2	30	28	31		
Sikkim	21.3	9.3	18.2	21	36	28		
Arunachal Pradesh	43.9	44.6	44.0	4	3	3		
Nagaland	16.4	15.7	16.2	31	31	32		
Manipur	24.0	25.0	24.3	16	13	15		
Mizoram	34.3	19.4	27.7	6	22	11		
Tripura	25.3	26.2	25.5	12	11	12		
Meghalaya	28.0	26.8	27.8	10	9	9		
Assam	9.4	16.0	10.2	35	30	36		
West Bengal	24.6	26.8	25.3	14	10	13		
Jharkhand	18.9	37.1	23.2	28	6	16		
Odisha	29.8	39.2	31.5	9	5	6		
Chhattisgarh	11.5	15.5	12.3	34	32	35		
Madhya Pradesh	19.4	21.8	20.0	25	16	23		
Gujarat	20.4	19.1	19.8	23	23	24		
Daman & Diu	21.8	18.8	19.3	20	24	26		
D & N Haveli	19.2	19.4	19.3	26	20	25		
Maharashtra	32.7	24.8	29.0	8	14	7		
Andhra Pradesh	19.9	11.8	17.3	24	34	30		
Karnataka	22.6	17.0	20.2	19	29	22		
Goa	19.0	18.2	18.5	27	26	27		
Lakshadweep	71.0	94.5	90.4	2	1	1		
Kerala	44.1	40.7	42.6	3	4	4		
Tamil Nadu	24.0	20.9	22.5	15	18	20		
Puducherry	71.8	54.9	60.5	1	2	2		
A & N Islands	36.0	17.6	28.5	5	27	8		
Telangana	15.5	10.7	13.5	32	35	34		
Total	22.1	22.4	22.2					

# TSA Table 10.2a: State-wise Trips per 100 households with leading purposes holidaying, medical and shopping

States	Trips per 100 Households			Rank among states		
	Rural Urban Total			RuralUrbanTotal		
Jammu & Kashmir	33.2	27.2	31.8	7	8	5
Himachal Pradesh	25.8	19.4	24.9	11	21	14
Punjab	25.0	31.4	27.7	13	7	10
Chandigarh	12.2	14.5	14.4	33	33	33
Uttarakhand	22.8	20.3	22.1	18	19	21
Haryana	20.7	25.5	22.6	22	12	19
Delhi	7.6	23.5	23.1	36	15	18
Rajasthan	23.8	21.0	23.1	17	17	17
Uttar Pradesh	18.0	18.5	18.1	29	25	29
Bihar	17.2	17.1	17.2	30	28	31
Sikkim	21.3	9.3	18.2	21	36	28
Arunachal Pradesh	43.9	44.6	44.0	4	3	3
Nagaland	16.4	15.7	16.2	31	31	32
Manipur	24.0	25.0	24.3	16	13	15
Mizoram	34.3	19.4	27.7	6	22	11
Tripura	25.3	26.2	25.5	12	11	12
Meghalaya	28.0	26.8	27.8	10	9	9
Assam	9.4	16.0	10.2	35	30	36
West Bengal	24.6	26.8	25.3	14	10	13
Jharkhand	18.9	37.1	23.2	28	6	16
Odisha	29.8	39.2	31.5	9	5	6
Chhattisgarh	11.5	15.5	12.3	34	32	35
Madhya Pradesh	19.4	21.8	20.0	25	16	23
Gujarat	20.4	19.1	19.8	23	23	24
Daman & Diu	21.8	18.8	19.3	20	24	26
D & N Haveli	19.2	19.4	19.3	26	20	25
Maharashtra	32.7	24.8	29.0	8	14	7
Andhra Pradesh	19.9	11.8	17.3	24	34	30
Karnataka	22.6	17.0	20.2	19	29	22
Goa	19.0	18.2	18.5	27	26	27
Lakshadweep	71.0	94.5	90.4	2	1	1
Kerala	44.1	40.7	42.6	3	4	4
Tamil Nadu	24.0	20.9	22.5	15	18	20
Puducherry	71.8	54.9	60.5	1	2	2
A & N Islands	36.0	17.6	28.5	5	27	8
Telangana	15.5	10.7	13.5	32	35	34
Total	22.1	22.4	22.2			

### TSA Table 10.2b: State-wise Trips per 100 households with rest of the leading purposes

States	Holidaying	Medical	Shopping	Total
Jammu & Kashmir	28.1	66.0	5.9	100.0
Himachal Pradesh	18.8	81.0	0.2	100.0
Punjab	57.3	42.5	0.2	100.0
Chandigarh	85.7	4.4	9.8	100.0
Uttarakhand	44.1	54.7	1.2	100.0
Haryana	46.1	53.2	0.8	100.0
Delhi	92.6	6.9	0.5	100.0
Rajasthan	22.4	77.2	0.4	100.0
Uttar Pradesh	27.1	72.3	0.6	100.0
Bihar	25.7	73.2	1.1	100.0
Sikkim	31.0	65.3	3.7	100.0
Arunachal Pradesh	47.9	38.0	14.1	100.0
Nagaland	25.2	42.9	31.9	100.0
Manipur	25.6	55.3	19.1	100.0
Mizoram	14.8	49.9	35.4	100.0
Tripura	16.7	82.4	0.9	100.0
Meghalaya	43.5	45.9	10.6	100.0
Assam	23.0	73.8	3.2	100.0
West Bengal	26.8	72.9	0.3	100.0
Jharkhand	38.1	60.4	1.5	100.0
Odisha	40.8	58.5	0.6	100.0
Chhattisgarh	30.8	67.3	1.9	100.0
Madhya Pradesh	28.6	69.9	1.5	100.0
Gujarat	46.6	53.0	0.4	100.0
Daman & Diu	26.1	70.2	3.7	100.0
D & N Haveli	23.0	77.0	0.0	100.0
Maharashtra	54.7	44.5	0.8	100.0
Andhra Pradesh	13.1	86.4	0.5	100.0
Karnataka	32.1	66.7	1.1	100.0
Goa	18.0	80.0	2.0	100.0
Lakshadweep	11.1	71.1	17.8	100.0
Kerala	19.2	80.3	0.5	100.0
Tamil Nadu	29.2	69.9	0.9	100.0
Puducherry	72.1	27.4	0.5	100.0
A & N Islands	8.3	87.0	4.7	100.0
Telangana	26.3	73.6	0.1	100.0
Total	34.0	65.1	1.0	100.0

## TSA Table 10.3a: State-wise (state of origin) percent distribution of trips with leading purposes holidaying, medical and shopping

States	Business	Social	Religious	Education	Others	Total
Jammu & Kashmir	2.6	88.1	6.6	0.7	1.9	100.0
Himachal Pradesh	2.2	92.3	3.0	0.8	1.7	100.0
Punjab	2.6	78.0	16.5	0.6	2.4	100.0
Chandigarh	0.2	84.1	11.9	0.4	3.5	100.0
Uttarakhand	3.0	83.0	11.4	1.2	1.4	100.0
Haryana	0.5	90.8	5.6	1.5	1.7	100.0
Delhi	0.6	77.3	9.0	0.3	12.8	100.0
Rajasthan	2.4	88.6	6.2	1.0	1.8	100.0
Uttar Pradesh	1.8	89.4	4.4	1.2	3.3	100.0
Bihar	2.5	85.3	5.4	1.5	5.3	100.0
Sikkim	5.2	83.6	7.1	1.2	2.9	100.0
Arunachal Pradesh	15.5	41.7	10.1	9.5	23.2	100.0
Nagaland	14.6	64.9	3.7	4.3	12.5	100.0
Manipur	8.2	70.7	12.1	4.3	4.6	100.0
Mizoram	6.1	70.1	13.6	1.0	9.2	100.0
Tripura	0.2	94.3	1.2	0.7	3.7	100.0
Meghalaya	9.0	59.0	8.6	4.3	19.0	100.0
Assam	2.3	91.6	1.5	1.0	3.6	100.0
West Bengal	3.3	89.5	3.1	1.2	2.8	100.0
Jharkhand	1.1	91.3	2.8	1.8	3.0	100.0
Odisha	1.3	92.5	4.2	0.5	1.6	100.0
Chhattisgarh	1.8	91.1	3.6	2.0	1.5	100.0
Madhya Pradesh	1.1	91.3	4.8	0.6	2.2	100.0
Gujarat	2.1	88.5	8.4	0.4	0.6	100.0
Daman & Diu	4.4	94.2	1.4	0.0	0.0	100.0
D & N Haveli	0.0	99.3	0.5	0.2	0.0	100.0
Maharashtra	2.4	82.7	12.6	0.9	1.4	100.0
Andhra Pradesh	2.2	85.0	9.7	1.2	1.9	100.0
Karnataka	2.3	76.8	19.1	1.2	0.6	100.0
Goa	1.0	51.0	39.0	0.9	8.2	100.0
Lakshadweep	0.0	59.4	10.3	11.5	18.8	100.0
Kerala	4.1	79.8	9.1	1.9	5.1	100.0
Tamil Nadu	1.8	78.1	17.3	0.8	2.1	100.0
Puducherry	2.2	67.7	27.6	1.3	1.3	100.0
A & N Islands	25.6	60.4	4.1	1.3	8.6	100.0
Telangana	0.3	89.5	8.1	1.0	1.1	100.0
Total	2.2	85.9	8.3	1.1	2.5	100.0

## TSA Table 10.3b: State-wise (state of origin) percent distribution of trips with rest of the leading purposes

States	Holidaying	Medical	Shopping	Total
Jammu & Kashmir	52.4	43.7	3.9	100.0
Himachal Pradesh	55.2	44.7	0.1	100.0
Punjab	52.1	47.3	0.6	100.0
Chandigarh	25.1	73.1	1.8	100.0
Uttarakhand	64.5	34.6	0.9	100.0
Haryana	31.7	68.0	0.3	100.0
Delhi	44.1	53.6	2.3	100.0
Rajasthan	31.5	68.0	0.5	100.0
Uttar Pradesh	30.3	69.3	0.4	100.0
Bihar	31.4	67.5	1.1	100.0
Sikkim	85.0	14.5	0.4	100.0
Arunachal Pradesh	59.5	29.6	10.9	100.0
Nagaland	25.9	41.2	33.0	100.0
Manipur	29.6	53.2	17.3	100.0
Mizoram	20.1	45.3	34.6	100.0
Tripura	18.9	80.0	1.0	100.0
Meghalaya	47.7	41.7	10.6	100.0
Assam	20.0	75.5	4.5	100.0
West Bengal	22.8	76.9	0.4	100.0
Jharkhand	41.2	57.2	1.6	100.0
Odisha	42.6	56.6	0.7	100.0
Chhattisgarh	24.9	73.9	1.1	100.0
Madhya Pradesh	27.2	71.2	1.6	100.0
Gujarat	33.3	66.2	0.4	100.0
Daman & Diu	37.7	62.3	0.0	100.0
D & N Haveli	30.8	69.2	0.0	100.0
Maharashtra	49.2	50.0	0.9	100.0
Andhra Pradesh	21.0	78.6	0.4	100.0
Karnataka	30.1	68.7	1.2	100.0
Goa	85.8	13.9	0.3	100.0
Lakshadweep	48.7	49.1	2.2	100.0
Kerala	17.2	82.7	0.1	100.0
Tamil Nadu	31.3	67.7	1.0	100.0
Puducherry	23.2	76.8	0.0	100.0
A & N Islands	51.6	45.2	3.2	100.0
Telengana	-	-	-	-
Total	34.0	65.1	1.0	100.0

# TSA Table 10.4a: State-wise (state of destination) percent distribution of trips with leading purposes holidaying, medical and shopping

					•	
States	Business	Social	Religious	Educatio n	Others	Total
Jammu & Kashmir	2.5	81.1	13.8	0.6	2.0	100.0
Himachal Pradesh	1.7	85.8	8.4	2.1	2.0	100.0
Punjab	2.8	81.4	13.1	0.8	1.9	100.0
Chandigarh	4.6	88.9	0.9	1.8	3.8	100.0
Uttarakhand	5.3	65.2	27.0	1.3	1.2	100.0
Haryana	0.4	93.7	2.9	0.9	2.1	100.0
Delhi	9.9	71.8	3.1	6.5	8.7	100.0
Rajasthan	1.7	89.1	6.8	0.9	1.5	100.0
Uttar Pradesh	1.5	89.5	4.2	1.0	3.8	100.0
Bihar	2.1	88.4	3.8	0.6	5.1	100.0
Sikkim	1.5	80.1	5.1	7.8	5.5	100.0
Arunachal Pradesh	11.7	40.7	17.7	8.9	20.9	100.0
Nagaland	14.2	64.9	3.4	3.0	14.6	100.0
Manipur	6.7	75.8	10.3	3.3	4.0	100.0
Mizoram	5.5	72.1	12.9	0.7	8.8	100.0
Tripura	3.7	90.3	1.0	0.7	4.3	100.0
Meghalaya	6.2	60.4	8.5	4.4	20.6	100.0
Assam	3.1	90.8	1.5	1.2	3.5	100.0
West Bengal	2.1	90.9	3.0	1.2	2.7	100.0
Jharkhand	2.3	88.4	5.3	1.3	2.7	100.0
Odisha	1.6	92.1	4.3	0.5	1.5	100.0
Chhattisgarh	1.5	90.5	4.7	1.8	1.5	100.0
Madhya Pradesh	1.1	91.3	5.3	0.6	1.6	100.0
Gujarat	3.2	88.8	6.7	0.4	0.9	100.0
Daman & Diu	38.7	61.3	0.0	0.0	0.0	100.0
D & N Haveli	0.0	99.2	0.8	0.0	0.0	100.0
Maharashtra	2.9	80.9	13.3	1.3	1.6	100.0
Andhra Pradesh	1.1	84.7	11.5	1.2	1.4	100.0
Karnataka	3.8	79.0	15.1	1.0	1.1	100.0
Goa	5.2	63.1	27.8	0.0	3.9	100.0
Lakshadweep	0.0	59.1	10.5	11.1	19.3	100.0
Kerala	2.2	81.8	8.6	1.9	5.6	100.0
Tamil Nadu	1.8	78.9	16.7	0.6	1.9	100.0
Puducherry	0.7	80.2	18.9	0.0	0.2	100.0
A & N Islands	25.5	62.4	3.1	1.0	8.0	100.0
Telengana	-	-	-	-	-	-
Total	2.2	85.9	8.3	1.1	2.5	100.0

## TSA Table 10.4b: State-wise (state of destination) percent distribution of trips with rest of the leading purposes

<b></b>					
States	Destination within the district	Destination outside the district but within the state	Destination outside the state but within the country	Final port of departure in Indian Territory for International trip	Total
Jammu & Kashmir	45.2	42.7	12.1	0.0	100.0
Himachal Pradesh	59.9	17.0	22.9	0.2	100.0
Punjab	30.7	47.3	21.7	0.3	100.0
Chandigarh	1.9	2.0	96.1	0.0	100.0
Uttarakhand	29.8	54.0	16.1	0.0	100.0
Haryana	38.9	22.8	37.7	0.7	100.0
Delhi	2.1	3.8	93.9	0.2	100.0
Rajasthan	49.1	33.5	17.4	0.1	100.0
Uttar Pradesh	50.8	32.4	16.6	0.2	100.0
Bihar	44.8	41.8	13.1	0.3	100.0
Sikkim	32.5	28.4	38.5	0.6	100.0
Arunachal Pradesh	27.2	37.1	35.4	0.3	100.0
Nagaland	39.4	49.8	10.9	0.0	100.0
Manipur	29.6	58.5	11.7	0.1	100.0
Mizoram	54.1	37.4	8.5	0.0	100.0
Tripura	43.2	35.5	21.3	0.0	100.0
Meghalaya	43.0	37.6	19.3	0.0	100.0
Assam	38.4	49.0	12.5	0.1	100.0
West Bengal	55.5	27.5	16.6	0.4	100.0
Jharkhand	49.7	30.3	20.0	0.0	100.0
Odisha	62.2	29.1	8.8	0.0	100.0
Chhattisgarh	47.4	34.6	17.8	0.2	100.0
Madhya Pradesh	46.6	32.9	20.4	0.2	100.0
Gujarat	40.3	38.9	20.4	0.4	100.0
Daman & Diu	32.2	3.4	62.0	2.4	100.0
D & N Haveli	65.1	2.6	32.4	0.0	100.0
Maharashtra	46.5	38.4	14.9	0.2	100.0
Andhra Pradesh	70.9	20.9	8.0	0.1	100.0
Karnataka	40.8	39.7	19.5	0.0	100.0
Goa	63.3	13.8	20.2	2.7	100.0
Lakshadweep	21.9	9.3	68.8	0.0	100.0
Kerala	65.2	21.2	13.5	0.2	100.0
Tamil Nadu	48.6	42.4	9.0	0.0	100.0
Puducherry	26.0	3.2	70.8	0.0	100.0
A & N Islands	63.0	13.5	23.4	0.0	100.0
Telangana	56.6	36.7	6.7	0.0	100.0
Total	49.2	33.7	16.9	0.2	100.0
Source: NCAER computation				I	

# TSA Table 10.5: State-wise distribution of trips (with 365 days reference period) by main destination

States	January	Februar y	March	April	May	June	July	August	Septem ber	October	Novemb er	Decemb er	Total
Jammu & Kashmir	5.7	7.5	9.0	6.5	9.2	14.2	12.1	8.8	6.5	6.9	7.0	6.6	100.0
Himachal Pradesh	7.0	6.5	9.5	6.5	7.1	10.3	11.5	10.4	9.6	6.8	8.0	6.9	100.0
Punjab	5.5	5.8	7.6	6.1	3.5	15.8	9.6	8.5	5.4	13.5	4.5	14.3	100.0
Chandigarh	3.1	16.0	5.9	14.1	1.7	31.7	1.6	5.1	4.8	3.0	5.1	7.9	100.0
Uttarakhand	6.3	8.0	8.2	7.0	12.0	14.8	8.0	8.4	6.0	11.2	4.2	5.9	100.0
Haryana	7.5	5.4	6.9	8.5	11.5	19.5	6.9	8.6	5.4	6.8	7.7	5.3	100.0
Delhi	9.4	8.4	7.1	8.3	14.2	17.0	4.0	6.2	3.1	11.4	5.1	5.7	100.0
Rajasthan	6.5	7.9	5.7	6.4	10.5	11.6	10.1	9.4	7.4	11.5	7.3	5.8	100.0
Uttar Pradesh	6.7	7.2	7.9	8.3	9.0	12.7	9.2	10.3	7.4	10.4	6.2	4.6	100.0
Bihar	7.8	6.0	9.7	6.5	10.0	11.9	8.2	10.2	8.5	9.6	6.6	5.1	100.0
Sikkim	9.7	5.2	9.7	4.5	8.8	4.5	6.7	8.8	11.4	11.5	7.4	11.7	100.0
Arunachal Pradesh	10.4	7.1	5.2	7.9	8.9	6.7	9.7	11.7	8.4	8.8	6.6	8.5	100.0
Nagaland	5.8	8.8	3.7	8.3	5.4	6.0	10.4	6.8	8.0	6.2	7.6	23.0	100.0
Manipur	6.5	9.9	9.3	10.7	11.3	8.9	9.6	10.2	5.3	6.8	6.5	5.0	100.0
Mizoram	4.6	4.6	5.3	7.8	7.1	12.6	6.9	12.1	8.4	8.9	7.3	14.5	100.0
Tripura	4.8	9.4	10.0	14.0	9.1	7.9	11.2	8.3	8.3	6.3	5.2	5.4	100.0
Meghalaya	8.1	7.9	6.5	5.0	6.9	8.4	6.5	5.4	6.9	12.2	9.0	17.2	100.0
Assam	11.6	6.9	8.1	8.3	6.4	6.1	7.6	7.9	8.4	12.3	7.7	8.9	100.0
West Bengal	8.8	8.4	8.0	8.5	7.5	7.8	9.2	9.2	8.8	9.2	6.5	8.0	100.0
Jharkhand	5.2	6.2	8.3	5.1	12.8	9.0	7.8	8.8	6.7	14.5	5.9	9.7	100.0
Odisha	8.4	6.2	6.8	7.3	8.4	11.2	8.3	7.8	6.6	14.0	5.6	9.4	100.0
Chhattisgarh	6.7	12.5	6.0	6.8	10.5	9.1	8.3	7.6	8.5	8.6	8.7	6.7	100.0
Madhya Pradesh	6.6	6.6	7.7	7.6	11.6	8.8	9.9	10.8	7.1	10.9	7.5	5.0	100.0
Gujarat	6.7	6.3	6.4	8.0	11.2	8.3	7.0	10.0	6.9	14.1	8.9	6.2	100.0
Daman & Diu	13.0	8.3	4.2	7.3	13.8	12.4	3.5	1.8	3.9	5.0	6.3	20.4	100.0
D & N Haveli	7.0	6.1	5.0	5.4	2.2	9.6	17.1	10.4	9.6	10.4	6.8	10.4	100.0
Maharashtra	8.5	6.1	6.6	7.5	13.6	7.1	7.3	9.3	6.8	11.0	7.3	9.1	100.0
Andhra Pradesh	8.6	6.1	4.0	8.0	13.9	5.7	8.7	9.6	9.5	9.4	7.8	8.8	100.0
Karnataka	10.0	6.0	7.1	8.1	8.0	10.0	8.0	10.4	7.4	9.1	7.3	8.4	100.0
Goa	8.0	6.1	3.8	8.3	18.7	3.9	3.1	13.3	7.7	12.6	7.3	7.1	100.0
Lakshadweep	23.2	5.2	2.2	1.6	4.2	2.1	8.5	7.9	10.3	6.7	15.1	13.0	100.0
Kerala	8.5	8.5	6.5	9.7	9.2	6.5	8.9	9.2	8.5	9.0	7.0	8.5	100.0
Tamil Nadu	6.7	6.4	6.8	10.0	20.0	8.1	8.4	7.8	7.7	6.5	5.8	5.8	100.0
Puducherry	6.3	5.2	4.3	10.6	21.3	5.7	6.4	14.2	7.6	7.6	4.6	5.9	100.0
A & N Islands	5.0	7.4	7.1	6.8	13.3	12.5	10.6	6.7	6.4	8.2	11.0	5.1	100.0
Telangana	9.0	5.3	8.0	6.0	15.6	7•4	7.1	9.5	8.0	10.6	<b>5</b> •7	7•7	100.0
Total Source: NCAER con	7.7	6.9	7.2	7.9	11.0	9.7	8.5	9.3	7.5	10.3	6.7	7.4	100.0

## TSA Table 10.6: State-wise distribution of trips (with 365 days reference period) by starting month of travel

## **VI. SUMMARY OF FINDINGS**

This report provides various tourism statistics and economic aggregates, obtained in the compilation of Tourism Satellite Account for Telangana. These statistics and aggregates include the intensity of tourism activity in terms of number of trips or number of tourists; tourism consumption by different forms of tourism; Gross Value Added of Tourism Industries (GVATI); Tourism Direct Gross Value Added (TDGVA); Tourism Employment; and most importantly, the contribution of TDGVA to State Total GVA and of Tourism Employment to State Total Employment. The contribution is obtained taking into account both direct and indirect effects of tourism, where indirect effects arise due to inter-linkages of tourism with other sectors of the economy. The key findings of the report are summarised as follows:

- An estimated number of 1.38 lakh international tourists visited the state during 2015-16. This constitutes one part of inbound tourism in the state. The other part refers to the trips undertaken by tourists from other states of the country to the state of reference. There were no inbound trips from other states to the state of reference during the period 2015-16.
- Domestic or intrastate trips stood at 3.71 crore. This is just 3.09 percent of the country's total domestic trips<sup>5</sup>.
- Total Internal Tourism expenditure incurred by all inbound, domestic and outbound tourists, amounted to Rs. 16095.29 crore during 2015-16. Imputed Tourism consumption stood at Rs. 4431.38 crore. Together, these constitute the Total Internal Tourism Consumption and is estimated at Rs. 20526.66 crore.
- The state's share in All-India's Total Internal Tourism Consumption is 2.15 percent.
- The state's employment, in terms of number of jobs, is estimated at 200.89 lakh. The number of jobs in tourism characteristic industries, referred to as tourism employment, is 10.31 lakh. The direct share of tourism in employment, hence, is 5.13 percent.
- Total GVA of the state was Rs. 5.30 lakh crore in 2015-16. Tourism Direct GVA (TDGVA) is estimated at Rs. 12118.68 crore for the same year. The state's share in All-India GVA is 4.26 percent while the same in All-India TDGVA is 3.50 percent.

<sup>&</sup>lt;sup>5</sup> While national level domestic trips and state level domestic trips are conceptually different as national level domestic trips are a combination of all states' domestic trips and also inter-state trips. However, both refer to the movement within the respective geographical boundary.

Estimated number of Tourists/Trips			
	State (Number)	All India (Number)	Share in All-India
Inbound tourists - international	137 890	13522814	1.02
Inbound trips - other states	0	-	0
Domestic trips	37132802	1201955810	3.09
Outbound tourists	1349471	20291635	6.65
Estimated Tourism Consumption			
	State (Rs. Lakh)	All India (Rs. Crore)	Share in All-India
Inbound	37442	235331	0.16
- international	37442	235331	0.16
- other states	0	0	0
Domestic	1283904	553193	2.32
Outbound	288183	24575	11.73
Imputed	443138	141280	3.14
Total Internal	2052666	954379	2.15
Employment - Number of jobs			
	State (lakh numbers)	All India (lakh numbers)	Share in All-India
Total Employment (in lakh)	200.89	5838.45	3.44
Tourism Characteristic Industries	10.31	315.10	3.27
Gross Value Added			
	State (Rs. Lakh)	All India (Rs. Lakh)	Share in All-India
Gross Value Added (GVA) at basic prices	53033551	1245864229	4.26
Tourism Characteristic Industries (GVATI) (1)	2839596	59857757	4.74
Tourism Connected Industries (2)	1053120	34559289	3.05
Tourism Specific Industries (1+2)	3892715	94417045	4.12
Tourism Direct GVA	1211868	34649328	3.50

Table VI.1: Key Tourism Statistics

### Tourism share in economy

Any economic sector of a region contributes directly and indirectly to the economy of that region. The direct contribution is the share of its GVA and employment in the region's GVA and employment respectively. The indirect contribution arises due to the inter-industry linkages between the sector and the sectors in its supply chain. Stronger the linkages, bigger is the indirect contribution. The sum of direct and indirect shares amount to total share of tourism in economy.

The key findings on direct and indirect shares of tourism to state GVA and employment are the following:

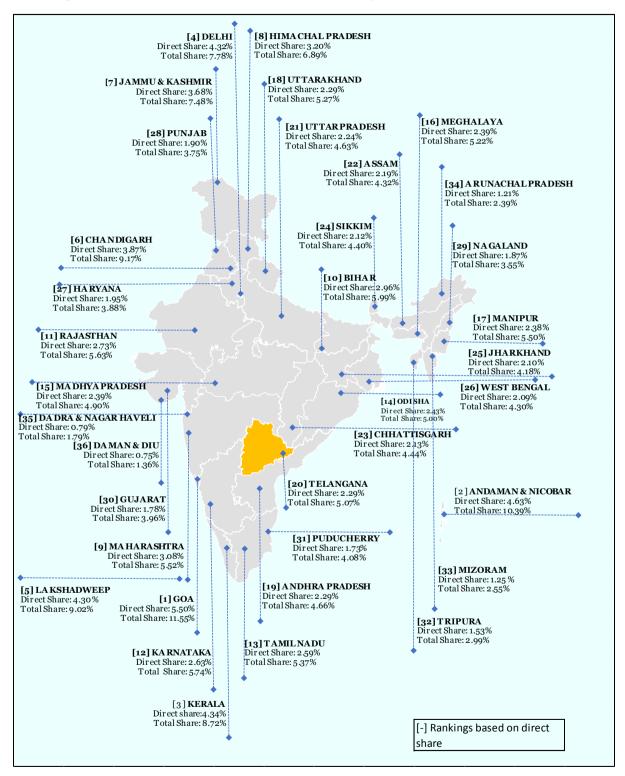
• Tourism (TDGVA) contributes 2.29 percent to the state GVA as its direct share. As compared to this, the direct share of TDGVA to total GVA at All-India level is 2.78 percent.

- Tourism's direct share in employment, in terms of number of jobs, is estimated at 5.13 percent for the state, compared with 5.40 percent for the country.
- The GVA multiplier, derived using the input-output model based on commodity X commodity IO matrix, is 2.2172.
- The employment multiplier, derived using the input-output model based on industry X industry IO matrix, is 3.4747.
- The total share of tourism to state GVA and employment is derived by multiplying the direct shares with the corresponding multiplier.
- Hence, the total share of tourism in GVA and in employment translates to 11.87 percent and 17.83 percent respectively.
- Table VI.2 presents these shares for state of reference and for All-India.

	•	. ,
Item	Telangana	All India
Tourism Direct GVA, TDGVA	2.29	2.78
GVATI	5.35	4.80
Tourism Employment	5.13	5.40
GVA multiplier	2.2172	1.9236
Employment multipliers	3.4747	2.2931
TDGVA - direct and indirect	5.07	5.35
GVATI-direct and indirect	11.87	9.24
Tourism Employment - direct and indirect	17.83	12.38

Table VI.2: Contribution of Tourism in economy (%)

The maps below present the direct and indirect shares of tourism in GVA (Map 1) and employment (Map 2) for all the states and UTs of India, along with the states' rank on direct shares.



### Figure VI.1: Direct and Indirect share of GVA by States and Union Territories

Source: NCAER Compilations

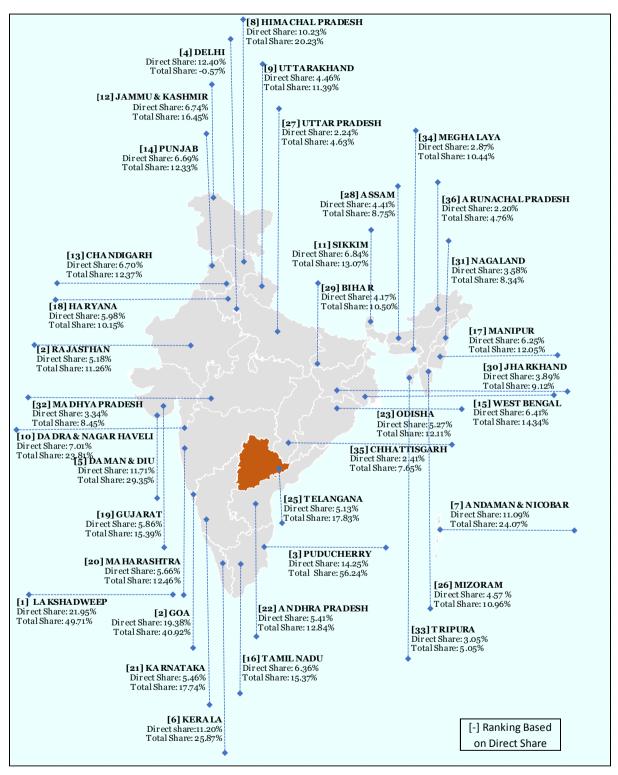


Figure VI.2: Direct and Indirect share of Employment by States and Union Territories

Source: NCAER Compilations

### **ANNEXURE 1** Key Challenges in preparing RTSA

This report presents the RTSA tables and methodology adopted in the preparation of RTSAs or TSAs at regional/state level. To the extent possible, the methodology conforms with the international recommended methodology to prepare national TSAs, as documented in the TSA:RMF-2008. However, due to certain data limitations, a number of assumptions, proxy indicators and national level rates and ratios have been used so as to arrive at a complete set of TSA tables and accounts. Out of the total recommended 10 tables, TSA Table 8 on Gross Fixed Capital Formation for Tourism industries and TSA Table 9 on Gross Collective Consumption could not be prepared at all.

The key challenges involved in the preparation of RTSAs are listed as follows:

- 1. Demand side data, at state-level, are sourced from the same sources as those for national level, that is, International Passenger Survey (IPS) and Domestic Tourism Survey (DTS). In the IPS, the information on states of destination is not directly captured by the international tourists. Hence, we have used the data on expenditure incurred in the "last place of night halt (LNPH)" which are locations within states. The expenditure pattern observed in LNPH is imposed on the officially available number of foreign arrivals in the state.
- 2. For many states, these data might not be representing actual expenditure pattern, especially for different types of international tourists.
- 3. Also, IPS being a nationally representative survey, lacked sufficient data points for locations within some of the smaller states. In those cases, national-level inbound tourism expenditure pattern has been used.
- 4. Pre-trip Outbound Tourism Expenditure, although the least of all the components of total internal tourism consumption, could not be estimated for the tourists who are residents of state of reference and travel to other states of India. Only pre-trip outbound tourism expenditure incurred by residents travelling abroad could be estimated.
- 5. From supply side, there are bigger limitations as the disaggregated production account or the Supply and Use tables (SUT) for states are not available. The GSDP statement, along with the national SUT ratios have been used to prepare the state level SUTs with production account of all the 19 tourism-specific and 5 tourism non-specific industries.
- 6. The Tourism Industry Ratios (TIR) for 2009-10 were derived from the aggregate GSDP numbers and using ratio of state level private final consumption expenditure (PFCE) to national level PFCE. This was because a complete SUT with total supply of industries could not be prepared. SUT with only domestic supply could be prepared. However, for the present RTSAs for 2015-16, attempt has been made to construct the complete SUT with total supply of industries. Hence, the TIRs have been derived from the SUT framework, as in the case of national-level TSA. The tourism shares in GDP, as given in 2009-10 and in 2015-16, are therefore not strictly comparable.

### **ANNEXURE 2** Study visit to Australia

As part of the Terms of Reference of the study, a study visit was undertaken to Australia during 11<sup>th</sup> to 17<sup>th</sup> January 2019. The purpose of the study visit was to understand the methodology adopted by the country in preparing their national and, in particular, the sub-national TSAs. Australia was chosen for the study visit as it is one of the few countries which prepare the TSAs at sub-national level or state-level and occasionally even at sub-state level.

### Planning the Study Visit

For the study visit, Tourism Research Australia (TRA) was contacted in July, 2018 through email. TRA happily accepted to host the team from NCAER and MoT and confirmed their availability in the second-third weeks of Jan, 2019. The agendas of the visit were proposed to be the following:

- Understand the methodology of Australian TSA
- Understand the methodology of constructing Regional TSA
- Data collection of International and particularly Domestic Visitor Surveys
- Data on employment for TSA
- Australian Supply and Use Table preparation and conversion to Input-Output Table

Given the above agenda, it was decided that the study visit will include meeting the officials from TRA and Australian Bureau of Statistics (ABS) in Canberra and with Prof. Tien Pham at Griffith University in Brisbane.

### Study Team to Australia

The study team comprised the following officials:

From MoT:

- 1. Mr. P C. Cyriac, ADG, MoT
- 2. Mr. Shailesh Kumar, Director, MoT

### From NCAER:

- 3. Dr. Poonam Munjal, Team Leader
- 4. Dr. Palash Baruah
- 5. Asrar Alam

### **Participants from Australia**

Meeting in Austrade, Canberra

- 1. Dr. David Smith, Manager Strategic Research and Analysis, Tourism Research Australia, Austrade
- 2. Mr. Jai Kookana, Principal Analyst, Tourism Research Australia, Austrade.
- 3. Mr. Sean Thompson, Assistant Director, Tourism and Transport Satellite Accounts Business Indicators Branch, Australian Bureau of Statistics

- 4. Mr. Peter R William and Mr. Marco Sun, National Accounts Benchmark Section, Australian Bureau of Statistics
- 5. Mr. Rod Battye, Tourism Statistics Team, Tourism Research Australia

Meeting in Griffith University, Brisbane

6. Dr Tien Pham, Principal Research Fellow, Griffith Institute for Tourism, Griffith University.

### Meeting in AUSTRADE

After a round of introduction of each participant, India team (NCAER and MoT) briefly discussed the purpose of the study visit and talked about the methodology which India follows in preparing its national and state-level TSAs.

Following this, Mr. Sean Thompson gave a detailed presentation on Australian TSA at national level. Australian TSA (ATSA) is prepared by the Tourism Research Australia (TRA) which produces a wide range of tourism research information at the national, state/territory and regional level. The Regional Tourism Profiles provide the tourism industry, tourism researchers, planners and policy makers with comprehensive activity data on the "tourism regions" in Australia.

Mr. Sean's presentation was followed by another presentation by Mr. Peter R William and Mr. Marco Sun on Australian Supply and Use Tables (SUTs) and their conversion to Input-Output Tables (IO).

The key features of ATSA are:

- ATSA estimates and releases only direct contribution of Tourism GVA and GDP. The indirect contribution is not measured although there are some unpublished estimates on indirect contribution too.
- The ATSA is published on annual basis.
- Tourism employment is measured by the hours worked and value added per hours worked.
- No attempt is made to estimate the valuables or Tourism Gross Fixed Capital Formation
- The demand side data for TSA are collected through two nation-wide primary surveys, namely, the International Visitor Survey (IVS) and the National Visitor Survey (NVS).
- The IVS canvasses a total of 40,000 respondents every year and the NVS collects information from about 1,20,000 respondents every year. NVS is conducted entirely on mobile phone.
- The supply side data are obtained from the Annual Supply and Use Tables. The additional industry data are collected from the economy-wide business surveys to capture more detailed data on service industries.

The key features of SUTs are:

- The Australian SUTs ensure that the GDP is balanced for all three approaches production, expenditure and income.
- Various data sources are used in the compilation of SUT.
- The SUT comprises of 67 industries and 301 products.
- Only prepared at national level.

- It is very rare that the different data sources balance without adjustments. Significant imbalances are manually reviewed and adjusted. Expert decisions are made to adjust the data.
- For the remaining adjustments, Constrained Optimisation Tool is used for balancing the SUT.
- The Australian IO Tables are used for several applications like economic modelling, environmental extensions to IO tables, productivity analysis, producer prices indices, environmental-economic accounts and satellite accounts

In the end, there was an interactive session of discussion with Mr. Rod Battye, who gave an overview of the IVS and NVS. The Indian team discussed about the similar Indian surveys – International Passenger Survey (IPS) and Domestic Tourism Survey (DTS). For regional TSAs, statistics on tourism profile are used in conjunction with other information sources, such as population statistics, feedback from local operators etc.

TRA has augmented the tourism expenditure survey data to estimate State Tourism Satellite Account as well as building in-house modelling capacity to carry out tourism economic impact analysis (a State tourism CGE model).

### Meeting in GRIFFITH UNIVERSITY

The Indian team met Prof Tien Pham and his colleagues/students in Griffith University, located in Gold Coast. Prof Pham gave a presentation on the methodology adopted in preparation of ATSA at national and sub-national level. While the national level TSAs are prepared by TRA, Prof Pham prepares the sub-national TSAs for Australia. He has also worked extensively on tourism economic impact analysis using the CGE model. CGE model, being dynamic in nature, is an efficient tool to assess the impact of tourism.

He has also published research papers on other tourism related areas like sustainable tourism, sub-state level TSA, hybrid approach to derive tourism economic data at regional level.

The key features of sub-national TSA are:

- Top-bottom approach is followed. The sub-national or state shares are applied to disaggregate the national TSA into sub-national or state TSAs.
- Similarly, if state TSA is available, then for regional TSAs, the regional shares are applied to disaggregate the state TSA.
- Regional TSAs have been prepared for the regions of Queensland.
- For allocating the expenditures in each location of the regions, TRA adopts the iterative procedure and applies on the data collected by IVS and NVS.

### Key Take-aways for India

The India team benefited immensely from the study visit to Australia. There was rich discussion on how both the countries, Australia and India, prepare their national and subnational TSAs, conforming to the international methodology recommended by UNWTO.

There was a detailed discussion on how Tourism surveys are conducted in several states of India and the extensive procedure involved in these studies was much appreciated by the ABS and TRA officials.

For the preparation of India's state-level SUTs, it was suggested that Constrained Optimisation Tool may be attempted. Also, as a way forward and for the research purpose, CGE modelling may be attempted to carry out the impact analysis of Tourism sector.

In all, the study visit turned out to be extremely fruitful for the entire Indian team. The hospitality of the Australian team is much appreciated.

## **GLOSSARY**

Basic Price	The basic price is the amount receivable by the producer from the purchaser for a unit of a good or service produced as output minus any tax payable, and plus any subsidy receivable, on that unit as a consequence of its production or sale; it excludes any transport charges invoiced separately by the producer.
Business And Government Tourism Consumption	Also referred to as internal tourism consumption by domestic business and government visitors. Consists of the tourism consumption by resident businesses or governments on tourism related products within the economy.
Central Product Classification (CPC)	The central product classification (CPC) is a classification based on the physical characteristics of goods or on the nature of the services rendered; each type of good or service distinguished in the CPC is defined in such a way that it is normally produced by only one activity as defined in ISIC.
CIF Price	The CIF price (i.e. Cost, insurance and freight price) is the price of a good delivered at the frontier of the importing country, including any insurance and freight charges incurred to that point, or the price of a service delivered to a resident, before the payment of any import duties or other taxes on imports or trade and transport margins within the country; in SNA 1993 this concept is applied only to detailed imports.
Compensation of Employees	Compensation of employees is the total remuneration, in cash or in kind, payable by an enterprise to an employee in return for work done by the latter during the accounting period.
Consumption of Fixed Capital	Consumption of fixed capital represents the reduction in the value of the fixed assets used in production during the accounting period resulting from physical deterioration, normal obsolescence or normal accidental damage.
Direct Tourism Gross Domestic Product	Is direct tourism gross value added plus net taxes on products that are attributable to the tourism industry

	(tourism net taxes on products). Direct tourism GDP will generally have a higher value than direct tourism value added. Direct tourism GDP is a satellite account construct to enable a direct comparison with the most widely recognised national accounting aggregate, GDP. While it is useful in this context, the direct tourism gross value added measure should be used when making comparisons with other industries or between countries. See also Direct tourism gross value added and Tourism net taxes on products.
Direct Tourism Gross Value Added	The value of direct tourism output at basic prices, less the value of the inputs used in producing these tourism products. This measure is directly comparable with the value added of 'conventional' industries such as mining and manufacturing and should also be used for comparisons across countries. See also Direct tourism output and Direct tourism GDP.
Direct Tourism Output	The value of goods and services, at basic prices, which are consumed by visitors and produced in the economy by industries in a direct relationship with visitors.
Domestic Output	Domestic output is output produced by resident
Domestic Tourism	enterprises. The travel of domestic visitors is called domestic tourism. It comprises the activities of a resident visitor within the country of reference either as part of a domestic tourism trip or part of an outbound tourism trip.
Domestic Tourism Consumption	Consists of the tourism consumption by resident visitors on tourism related products within the economy. It is the sum of household tourism consumption and business and government tourism consumption.
Domestic Travel	Travel within a country by residents is called domestic travel.
Domestic Travellers	Those who undertake domestic travel are domestic travellers.
Domestic Trip	A domestic trip is one with a main destination within

	the country of residence of the visitor.
Domestic Visitor	A domestic traveller qualifies as a domestic visitor if: (a) he/she is on a tourism trip and (b) he/she is a resident travelling in the country of reference.
	Domestic visitors are those who travel within the country to a place other than their usual place of residence and stay at hotels or other accommodation establishments run on commercial basis or in dharamshalas/sarais/musafirkhanas/ agrashalas/ choultries, etc for a duration of not less than 24 hours or one night and for not more than 12 months at a time.
Durable Consumer Goods	Durable goods are goods that "may be used repeatedly or continuously over a period of a year or more, assuming a normal or average rate of physical usage". When acquired by producers, these are considered to be capital goods used for production processes as is the case of vehicles, computers, etc. When acquired by households, they are considered to be consumer durable goods.
Economic Activity	Any activity resulting in production of goods and services that add value to national product is considered as an economic activity. Such activities include production of all goods and services for market (market activities), i.e. Production for pay or profit, and, among the non-market activities, the production of goods and household services with paid domestic employees and owner occupied dwellings for own consumption and own account production of fixed assets.
Employed Persons	Employed (or worker) persons are those who are engaged in any economic activity or who, despite their attachment to economic activity, abstain from work for reason of illness, injury or other physical disability, bad weather, festivals, social or religious functions or other contingencies necessitating temporary absence from work.
Employed Persons	Number of persons usually employed in the principal and subsidiary statuses.

Employed As Per Principal Activity Status	Those in labour force pursuing some economic activity for major time during the reference period of 365 days
Employed As Per Subsidiary Activity Status	Those in labour force pursuing some economic activity for a relatively shorter time (minor time) during the reference period of 365 days
Enterprise	An enterprise is an institutional unit in its capacity as a producer of goods and services; an enterprise may be a corporation, a quasi-corporation, a non-profit institution, or an unincorporated enterprise.
Establishment	An establishment is an enterprise or part of an enterprise that is situated in a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.
Exports of Goods	Exports of goods consist of exports of the following items from residents to non-residents: generally with a change of ownership being involved: general merchandise, goods for processing, goods procured in domestic ports by non-resident carriers and non- monetary gold.
Exports of Services	Exports of services consist of exports of the following services provided by residents to non-residents: transportation; travel; communications; construction; insurance; financial; computer and information; royalties and licence fees; other business services; personal, cultural, and recreational services; and government services n.i.e.
Excursionist	Same day visitors are called excursionists.
Final Demand	Transactions that involve purchases of produced goods and services for final uses are presented in final demand table. The "final" use for a good or service is that it is not used up entirely in the reference year as an intermediate input in the production of some other good or service. Transactions for goods and services that are completely used to produce other goods and services are shown in the intermediate input (or use) table of the accounts.

Final Output	This is that part of total output of each industry sold either for final consumption by households, general government or for investment (including additions to inventories) and for export. In short, it represents total output sold to final buyers. For the whole economy, total final output is equal to the value of goods and services (both domestically produced and imported) available for consumption, investment and export.
Final Consumption	Final consumption consists of goods and services used up by individual households or the community to satisfy their individual or collective needs or wants.
Final Consumption Expenditure of Government	Government final consumption expenditure consists of expenditure, including imputed expenditure, incurred by general government on both individual consumption goods and services and collective consumption services.
Final Consumption Expenditure of Households	Household final consumption expenditure consists of the expenditure, including imputed expenditure, incurred by resident households on individual consumption goods and services, including those sold at prices that are not economically significant.
Final Consumption Expenditure of Npishs	Final consumption expenditure of npishs (non-profit institutions serving households) consists of the expenditure, including imputed expenditure, incurred by resident npishs on individual consumption goods and services.
Fob Price	The FOB price (free on board price) of exports and imports of goods is the market value of the goods at the point of uniform valuation, (the customs frontier of the economy from which they are exported); it is equal to the CIF price less the costs of transportation and insurance charges, between the customs frontier of the exporting (importing) country and that of the importing (exporting) country.
General Government	The general government sector consists of the totality of institutional units which, in addition to fulfilling their political responsibilities and their role of economic regulation, produce principally non-market

	services (possibly goods) for individual or collective consumption and redistribute income and wealth.
GDP	Is the total market value of goods and services produced in the economy within a given period after deducting the cost of goods and services used up in the process of production but before deducting allowances for the consumption of fixed capital. Thus gross domestic product, as here defined, is 'at market prices'.
Gross	The term "gross" is a common means of referring to values before deducting consumption of fixed capital (generally used as in "gross capital stock" or "gross domestic product").
Gross Domestic Product - Expenditure Based	Expenditure-based gross domestic product is total final expenditures at purchasers' prices (including the FOB value of exports of goods and services), less the FOB value of imports of goods and services.
Gross Domestic Product - Income Based	Income-based gross domestic product is compensation of employees, plus taxes less subsidies on production and imports, plus gross mixed income, plus gross operating surplus.
Gross Domestic Product - Output Based	Output-based gross domestic product is the sum of the gross values added of all resident producers at basic prices, plus all taxes less subsidies on products. Output-based GDP is the sum of the gross values added of all resident producers at producers' prices, plus taxes less subsides on imports, plus all non- deductible VAT (or similar taxes).
Gross Fixed Capital Formation	Gross fixed capital formation is measured by the total value of a producer's acquisitions, less disposals, of fixed assets during the accounting period plus certain additions to the value of non-produced assets (such as subsoil assets or major improvements in the quantity, quality or productivity of land) realised by the productive activity of institutional units.
Gross Margin	The gross margin of a provider of reservation services is the difference between the value at which the intermediated service is sold and the value accrued to the provider of reservation services for this

	intermediated service.
Gross Value Added	Gross value added is the value of output less the value of intermediate consumption; it is a measure of the contribution to GDP made by an individual producer, industry or sector; gross value added is the source from which the primary incomes of the SNA are generated and is therefore carried forward into the primary distribution of income account.
Gross Value Added At Basic Prices	Gross value added at basic prices is output valued at basic prices less intermediate consumption valued at purchasers' prices.
Gross Value Added of The Tourism Industries (GVATI)	Gross value added of the tourism industries is the total gross value added of all establishments belonging to tourism industries, regardless of whether all their output is provided to visitors and of the degree of specialization of their production process.
Household Tourism Consumption	Consists of the tourism consumption by resident households on tourism related products within economy.
Imports of Goods	Imports of goods consist of imports of the following items from non-residents to residents, generally with a change of ownership being involved: general merchandise, goods for processing, goods procured in foreign ports by domestic carriers, and non-monetary gold.
Imports of Services	Imports of services consist of the following services purchased by residents from non-residents: transportation; travel; communications; construction; insurance; financial; computer and information; royalties and licence fees; other business services; personal, cultural, and recreational services; and government services n.i.e.
Imports of Goods And Services	Imports of goods and services consist of purchases, barter, or receipts of gifts or grants, of goods and services by residents from non-residents; the treatment of exports and imports in the SNA is generally identical with that in the balance of payments accounts as described in the Balance of

	Payments Manual.
Imputed Tourism Consumption	Consists of imputations made for the consumption by visitors of certain goods and services for which they do not make a payment. Imputation is confined to a small number of cases where a reasonably satisfactory basis for the valuation of the implied transaction is available, and where their inclusion is consistent with the production boundary in the core national accounts.
Inbound Travel	Travel to a country by non-residents is called inbound travel.
Inbound Trip	An inbound trip is one with a main destination outside the country of residence of the visitor.
Inbound Tourism	The travel of inbound visitors is called inbound tourism. It comprises the activities of a non-resident visitor within the country of reference on an inbound tourism trip.
Inbound Tourism Consumption	Inbound tourism consumption is the tourism consumption of a non-resident visitor within the economy of reference.
Input-Output Model	It provides a detailed breakdown of economic activity among business industries and a detailed breakdown of their inputs and outputs by commodity associated with some arbitrarily fixed exogenous demand. It also provides supply requirements from other sources such as imports and government production of goods and services. The input-output model is a structural model dealing primarily with resource allocation in the economy corresponding to an exogenously given demand.
Input-Output Tables	Input-output tables are derived from Supply and Use Tables, which show the process of flows of goods and services through the economic system between producers and consumers. The transactors 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. These tables include the Imports Use and Domestic Use matrices, industry by industry and product by product matrices plus the Leontief inverse, multipliers and other analyses of their structure.
Intermediate Consumption	Intermediate consumption consists of the value of the goods and services consumed as inputs by a process of production, excluding fixed assets whose consumption is recorded as consumption of fixed capital; the goods or services may be either transformed or used up by the production process.
Intermediate Output	That part of the total output of each industry consumed by other industries in the production process.
Internal Tourism	Comprises domestic tourism and inbound tourism, that is, the activities of resident and non-resident visitors within the country of reference as part of domestic or international tourism trips.
Internal Tourism Consumption	Internal tourism consumption is the tourism consumption of both resident and non-resident visitors within the economy of reference. It is the sum of domestic tourism consumption and inbound tourism consumption.
International Tourism	Comprises inbound tourism and outbound tourism, that is, the activities of resident visitors outside the country of reference, either as part of domestic or outbound tourism trips and the activities of non- resident visitors within the country of reference on inbound tourism trips.
International Tourism Consumption	Also referred to as internal tourism consumption by international visitors. Consists of the tourism consumption within the economy by non-residents on tourism related products.

International Travellers	Those who undertake international travel are considered as international travellers.
International Visitor	An international traveller qualifies as an international visitor with respect to the country of reference if: (a) he/she is on a tourism trip and (b) he/she is a non-resident travelling in the country of reference or a resident travelling outside of it.
ISIC	ISIC is the United Nations International Standard Industrial Classification of All Economic Activities; the third revision of ISIC is used in the 1993 SNA.
Leontief Inverse (Input- Output) Table	The columns of the Leontief inverse (input-output) table show the input requirements, both direct and indirect, on all other producers, generated by one unit of output
Main Destination	The main destination of a tourism trip is defined as the place visited that is central to the decision to take the trip.
Main Purpose of A Trip	The main purpose of a trip is defined as the purpose in the absence of which the trip would not have taken place. The main purpose of a trip is one of the criteria used to determine whether the trip qualifies as a tourism trip and the traveller qualifies as a visitor. If the main purpose is to be employed and earn income (compensation for the labour input provided), then the trip cannot be a tourism trip and the individual taking the trip cannot be considered as a visitor (even though it is outside his/her usual environment and for less than 12 months), but as an "other traveller".
Margin	This is the difference between the resale price of a good and the cost to the retailer or wholesaler of the good sold. A transport margin consists of the transport charges invoiced separately by the producer in the delivery of a good.
Margin (Trade)	A trade margin is the difference between the actual or imputed price realised on a good purchased for resale (either wholesale or retail) and the price that would have to be paid by the distributor to replace the good at the time it is sold or otherwise disposed of.

Margin (Transport)	A transport margin consists of those transport charges paid separately by the purchaser in taking delivery of the goods at the required time and place.
Multipliers	An I-O multiplier is a quantitative measure created by a particular I-O based economic model. It is an analytical answer to a hypothetical question about how a certain expenditure is expected to impact the economy. The multipliers allow users to make estimates of the whole economy impacts of small changes in the economy.
National Tourism	Comprises domestic tourism and outbound tourism, that is, the activities of resident visitors within and outside the country of reference, either as part of domestic or outbound tourism trips.
National Tourism Consumption	National tourism consumption is the tourism consumption of resident visitors, within and outside the economy of reference. It is the sum of domestic tourism consumption and outbound tourism consumption.
Net Taxes on Products	Also referred to as taxes less subsidies on products. A tax or subsidy on a product is payable per unit of a good or service. The tax or subsidy may be a specific amount of money per unit of quantity of a good or service (quantity being measured either in terms of discrete units or continuous physical variables such as volume, weight, strength, distance, time, etc.), or it may be calculated ad valorem as a specified percentage of the price per unit or value of the goods or services transacted. A tax or subsidy on a product usually becomes payable when the product is produced, sold or imported, but it may also become payable in other circumstances, such as when a good is exported, leased, transferred, delivered, or used for own consumption or own capital formation. See also Other taxes on production and Taxes less subsidies on production and imports.
Other Taxes on Production	Consist of all taxes that enterprises incur as a result of engaging in production, except taxes on products. Other taxes on production include: taxes related to the

	payroll or workforce numbers excluding compulsory social security contributions paid by employers and any taxes paid by the employees themselves out of their wages or salaries; recurrent taxes on land, buildings or other structures; some business and professional licences where no service is provided by the Government in return; taxes on the use of fixed assets or other activities; stamp duties; taxes on pollution; and taxes on international transactions. See also Taxes less subsidies on production and imports.
Outbound Tourism	The travel of outbound visitors is called outbound tourism. It comprises the activities of a resident visitor outside the country of reference, either as part of an outbound tourism trip or as part of a domestic tourism trip.
Outbound Tourism Consumption	Outbound tourism consumption is the tourism consumption of a resident visitor outside the economy of reference. Also referred to as tourism imports. Consists of the tourism consumption by resident visitors outside of the economy while on an international trip.
Outbound Trip	An outbound trip is one with a main destination outside the country of residence of the visitor.
Outbound Travel	Travel outside a country by residents is called outbound travel.
Output	Output consists of those goods or services that are produced within an establishment that become available for use outside that establishment, plus any goods and services produced for own final use.
Output Multiplier	Output multiplier for a particular industry is defined to be the total of all outputs from each domestic industry required in order to produce one additional unit of output: that is, the column sums ( $\Sigma$ i) from Leontief inverse matrix (Lij).
Principal Activity	The principal activity of a producer is the activity whose value added exceeds that of any other activity carried out within the same unit. The output of the principal activity must consist of goods or services that

	are capable of being delivered to other units even though they may be used for own consumption or own capital formation.
Principal Usual Activity Status of Persons	The activity status of a person during the reference period of 365 days preceding the date of survey, which is determined on the basis of a person spending relatively longer time (i.e. Major time criterion). Based on this a person is categorised as those (a) belonging to labour force and (b) not belonging to the labour force ('neither working nor available for work'). Within the labour force, the criteria of (i) 'working' and (ii) 'not working but seeking and/or available for work' is again based on the major time criterion. The principal status workers are from (i) whereas the subsidiary status workers can be from either or both of (i) and (ii).
Principal Product	The principal product of an industry is the characteristic or main product produced by the relevant industry. Producing units are classified to industries according to which products they make. If they produce more than one product, they are classified according to whichever accounts for the greatest part of their GVA.
Production	Production is an activity, carried out under the responsibility, control and management of an institutional unit that uses inputs of labour, capital and goods and services to produce outputs of other goods and services.
Production Account	The production account records the activity of producing goods and services as defined within the SNA; its balancing item, gross value added, is a measure of the contribution to GDP made by an individual producer, industry or sector.
Products	Products, also called "goods and services", are the result of production; they are exchanged and used for various purposes: as inputs in the production of other goods and services, as final consumption or for investment.
Purchaser's Price	The purchaser's price is the amount paid by the

	purchaser, excluding any deductible VAT or similar deductible tax, in order to take delivery of a unit of a good or service at the time and place required by the purchaser; the purchaser's price of a good includes any transport charges paid separately by the purchaser to take delivery at the required time and place.
Same Day Visitor	A visitor (domestic, inbound or outbound) is classified as a same-day visitor (or excursionist) if his/her trip does not include an overnight stay.
Social Transfers in Kind	Social transfers in kind consist of social security and social assistance benefits in kind together with goods and services provided to individual household outside any social insurance scheme by non-market producers owned by government units or non-profit institutions (NPIS).
Subsidies	Subsidies are current unrequited payments that government units, including non-resident government units, make to enterprises on the basis of the levels of their production activities or the quantities or values of the goods or services which they produce, sell or import. They include the financing of deficits on public trading services deliberately run at a loss. There are two types, see subsidies on production and subsidies on products.
Subsidy on a Product	A subsidy on a product is a subsidy payable per unit of a good or service produced, either as a specific amount of money per unit of quantity of a good or service or as a specified percentage of the price per unit; it may also be calculated as the difference between a specified target price and the market price actually paid by a buyer. These are subsidies based on a quantity or value of goods or services sold.
Supply	The supply of a good or service is the sum of the values of its domestic output (from all sectors), plus imports, c.i.f. When measured at basic prices. At purchasers' prices, trade and transport margins and net taxes on products are also added.
Supply Table	The main body of the Supply Table shows estimates of domestic industries' output by type of product at basic

	prices. The columns represent the supplying industries and the rows represent the products supplied. Additional columns covering imports of goods and services, distributors' trading margins and taxes (less subsidies) on products are added to show supply of all goods and services at purchasers' prices.
Supply and Use Tables	Supply and use tables are in the form of matrices that record how supplies of different kinds of goods and services originate from domestic industries and imports and how those supplies are allocated between various intermediate or final uses, including exports.
Tax on a Product	A tax on a product is a tax that is payable per unit of some good or service, either as a specified amount of money per unit of quantity or as a specified percentage of the price per unit or value of the good or service transacted.
Taxes	Taxes are compulsory, unrequited payments, in cash or in kind, made by institutional units to government units; they are described as unrequited because the government provides nothing in return to the individual unit making the payment, although governments may use the funds raised in taxes to provide goods or services to other units, either individually or collectively, or to the community as a whole.
Taxes on Production and Imports	Taxes on production and imports consist of taxes payable on goods and services when they are produced, delivered, sold, transferred or otherwise disposed of by their producers plus taxes and duties on imports that become payable when goods enter the economic territory by crossing the frontier or when services are delivered to resident units by non-resident units; they also include other taxes on production, which consist mainly of taxes on the ownership or use of land, buildings or other assets used in production or on the labour employed, or compensation of employees paid.
Taxes on Products	Taxes on products, excluding VAT, import and export taxes, consist of taxes on goods and services that become payable as a result of the production, sale,

	transfer, leasing or delivery of those goods or services, or as a result of their use for own consumption or own capital formation. These taxes are defined as product specific taxes, for example: value added tax, excise duties, air passenger tax, insurance premium tax and import duties, and are based on the volume or value of production sold.
Total Economy	The total economy consists of all the institutional units which are resident in the economic territory of a country.
Total Final Expenditure	This is the sum total of final consumption, gross capital formation and exports of goods and services. Total final expenditure is the same as total demand by final buyers and is equal to total final output.
Total Intermediate Consumption	The total intermediate consumption of each industry is the industry's total purchases of the outputs of other industries as well as purchases of imports of goods and services and intra-industry purchases for use in its production process. This is adjusted for the change in inventories of materials and fuels and excludes primary inputs.
Total Tourism Internal Demand	Total tourism internal demand, is the sum of internal tourism consumption, tourism gross fixed capital formation and tourism collective consumption. It does not include outbound tourism consumption.
Total Output	The total output of an industry is the aggregate value of the goods and services together with the work-in- progress produced by the industry. It is equal to the value of the industry's sales plus any increase (and less any decrease) in the value of its inventories of finished products and work-in progress. Output is thus measured after deducting holding gains. The outputs of the distribution and service trades industries are measured on a 'gross margin' basis.
Taxes Less Subsidies on Production and Imports	Defined as 'taxes on products' plus 'other taxes on production' less 'subsidies on products' less 'other subsidies on production'. The taxes do not include any taxes on the profits or other income received by an enterprise. They are payable irrespective of the

	profitability of the production process. They may be payable on the land, fixed assets or labour employed in the production process, or on certain activities or transactions.
Tourism	Comprises the activities of visitors.
Tourism Characteristic Industries	Are those industries that would either cease to exist in their present form, producing their present product(s), or would be significantly affected if tourism were to cease. Under the international TSA standards, core lists of tourism characteristic industries, based on the significance of their link to tourism in the worldwide context, are recommended for implementation to facilitate international comparison. Some countries use the criteria of at least 25 per cent of an industry's output must be consumed by visitors to be a country- specific tourism characteristic industry.
Tourism Characteristic Products	These are defined in the international TSA standards as those products which would cease to exist in meaningful quantity, or for which sales would be significantly reduced, in the absence of tourism. Under the international TSA standards, core lists of tourism characteristic products, based on the significance of their link to tourism in the worldwide context, are recommended for implementation to facilitate international Comparison. It is also recommended in the international TSA standards that country-specific tourism characteristic products are identified.
Tourism Connected Industries	Are those, other than tourism characteristic industries, for which a tourism related Product is directly identifiable (primary) to, and where the products are consumed by visitors in volumes which are significant for the visitor and/or the producer. All other industries are classified as non- tourism industries, though some of their products may be consumed by visitors and are included in the calculation of direct tourism gross value added and direct tourism GDP.
Tourism Connected Products	Are those that are consumed by visitors but are not considered as tourism characteristic products. All other products in the supply and use table not

	consumed by visitors are classified as 'all other goods and services' in the TSA.
Tourism Consumption	Tourism consumption has the same formal definition as tourism expenditure. Nevertheless, the concept of tourism consumption used in the TSA goes beyond that of tourism expenditure. Actually, besides "the amount paid for the acquisition of consumption goods and services, as well as valuables for own use or to give away, for and during tourism trips" that corresponds to monetary transactions (the focus of tourism expenditure), it also includes services associated with vacation accommodation on own account, tourism social transfers in kind, and other imputed consumption. These transactions need to be estimated using sources different from information collected directly from the visitors such as reports on home exchanges, estimations of rents associated to vacation homes, calculations of FISIM, etc.
Tourism Demand	Expenditure made by, or on behalf of, the visitor before, during and after the trip and which expenditure is related to that trip and which trip is undertaken outside the usual environment of the visitor.
Tourism Direct Gross Domestic Product (TDGDP)	Tourism direct gross domestic product is the sum of the part of gross value added (at basic prices) generated by all industries in response to internal tourism consumption plus the amount of net taxes on products and imports included within the value of this expenditure at purchasers' prices.
Tourism Direct Gross Value Added (TDGVA)	Tourism direct gross value added is the part of gross value added generated by tourism industries and other industries of the economy that serve directly visitors in response to internal tourism consumption.
Tourism Expenditure	The amount paid for the acquisition of consumption goods and services as well as valuables, for own use or to give away, for and during tourism trips. It includes expenditures by visitors themselves as well as expenses that are paid for or reimbursed by others.
Tourism Exports	Tourism exports are domestically produced goods and

	services consumed by international visitors to the country.
Tourism Industry Ratio	This is the proportion of the total value added of an industry which is related to tourism.
Total Tourism Internal Demand	Computed by adding tourism internal consumption (domestic and inbound tourism consumption) with other components of internal demand, such as tourism collective consumption and tourism gross fixed capital formation.
Tourism Imports	Tourism imports are consumption of overseas produced goods and services by residents on overseas trips.
Tourism Net Taxes on Products	Consists of taxes paid less subsidies received on tourism related products which is attributable to productive activity of tourism related industries that are in a direct relationship with visitors. In the case of goods purchased by visitors, only the net taxes attributable to the value of retail trade services on those goods will be included.
Tourism Product Ratio	This is the proportion of the total supply of a product which is consumed by visitors.
Tourism Ratio	For each variable of supply in the TSA, the tourism ratio is the ratio between the total value of tourism share and total value of the corresponding variable in the TSA expressed in percentage form.
Tourism Share	Tourism share is the share of the corresponding fraction of internal tourism consumption to each component of supply. For each industry, the tourism share of output (in value), is the sum of the tourism share corresponding to each product component of its output.
Tourism Single Purpose Consumer Durable Goods	Tourism single-purpose consumer durables are a specific category of consumer durable goods that include durable goods that are used exclusively, or almost exclusively by individuals while on tourism trips.
Tourism Satellite Account	Tourism Satellite Account consists in analyzing in

	detail all the aspects of demand for goods and services which might be associated with tourism, in establishing the actual interface with the supply of such goods and services within the economy of reference, or outside and in describing how this supply (from domestic or imported origin) interacts with other economic activities, using the SUT as a reference.
Tourist	A visitor (domestic, inbound or outbound) is classified as a tourist (or overnight visitor) if his/her trip includes an overnight stay.
Tourism Trip	Trips which are undertaken by visitors.
Tourism Visit	The term tourism visit refers to a stay in a place visited during a tourism trip. However, while discussing the different forms of tourism (domestic, inbound and outbound), the term visitor is often used instead of tourism visit or tourism trip.
Travel	Travel refers to the activity of travellers.
Transportation in Balance of Payments Statistics	Transportation (bop item 205) covers services provided by all modes of transportation - sea, air, and other, which includes space, rail, road, inland waterway and pipeline - that are performed by residents of one economy for those of another. The different types of services offered include transport of passengers, transport of freight and other supporting and auxiliary services (e.g., storage and warehousing).
Travel in Balance of Payments Statistics	The item Travel (bop item 236) consists of goods and services which are acquired by residents who stay abroad or foreign travellers on the national territory for less than one year. Note that international transportation costs of the traveller to destination are recorded under the heading "transportation", but all movements within the country, including cruises, are entered under "travel".
Traveller	A traveller is someone who moves between different geographic locations for any purpose and any duration. Travel within a country by residents is called domestic travel. Travel to a country by non-residents is called inbound travel, whereas travel outside a

	country by residents is called outbound travel. Those who undertake travel, be it domestic, inbound or outbound, will be called domestic, inbound or outbound travellers, respectively.
Trip	A trip refers to the travel by a person from the time of departure from his usual residence until he/she returns to the same place: it thus refers to a round trip. A trip is made up of visits to different places. An inbound trip will correspond to the travel between arriving in a country and leaving, whereas a domestic trip or an outbound trip will correspond to the travel between leaving the place of residence and returning. A domestic trip has a main destination in the country of residence of the traveller, while an outbound trip has a main destination outside this country.
TSA Aggregates	<ul> <li>The compilation of the following aggregates, which represent a set of relevant indicators of the size of tourism in an economy is recommended: <ul> <li>Internal tourism expenditure;</li> <li>Internal tourism consumption;</li> <li>Gross value added of the tourism industries (GVATI);</li> <li>Tourism direct gross value added (TDGVA);</li> <li>Tourism direct gross domestic product (TDGDP)</li> </ul> </li> </ul>
Uses	The term refers to transactions in the current accounts that reduce the amount of economic value of a unit or sector, for example, wages and salaries are a type of use for the unit or sector that must pay them. By convention, uses are on the left-hand side of SNA accounts.
Usual Environment	The geographical area (though not necessarily a contiguous one) within which an individual conducts his/her regular life routines. This is made up of one or more areas in which a person undertakes their regular activities such as their residence, place of work, place of study and other places frequently visited. The usual environment criteria has two dimensions – frequency (places that are visited on a routine basis) and distance (locations close from home for overnight trips).
Usual Expenditures	In addition to the usual expenditures made by visitors

	while travelling (or preparing to travel) on commodities such as transport, meals or accommodation, these expenditures cover, inter alia, expenses incurred for the purposes of travel, such as suitcases which may be purchased some time before the planned trip. On the other hand, the measure excludes expenditure on capital equipment or other capital acquisition that may be made by a businessman while on a trip (even if that were the reason for the trip). If the trip were paid for by a non- visitor (such as parents paying for their child to visit them from abroad), it would be included because the expenditure was made on behalf of the visitor.
Valuables	Valuables are produced assets that are not used primarily for production or consumption, that are expected to appreciate or at least not to decline in real value, that do not deteriorate over time under normal conditions and that are acquired and held primarily as stores of value.
Visitor	A visitor is a traveller taking a trip to a main destination outside his/her usual environment for less than a year and for any main purpose (business, leisure or other personal purpose) other than to be employed by a resident entity in the country or place visited.



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