

**India: Regional Tourism Satellite
Accounts, 2015-16
Uttarakhand**

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India: Regional Tourism Satellite Accounts, 2015-16

Uttarakhand

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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
TTM	Trade and transport margins
UN	United Nations
UNWTO	United Nations World Tourism Organisation
VAT	Value Added Tax
WTO	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 expands 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 non-monetary).

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.

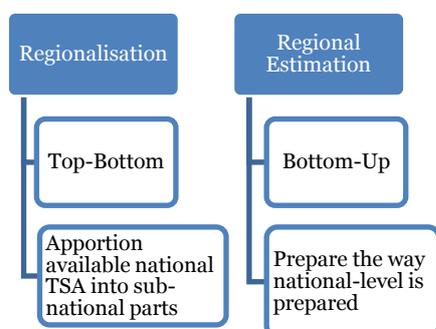
The United Nations World Tourism Organisation (UNWTO) recommends to put the relevant tourism statistics in an accounting framework so as to integrate these statistics with the System of National Accounts and to show the linkages between demand and supply for goods and services in respect of Tourism. 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 sub-national 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. These are the following:

Figure I.1: Two approaches to prepare RTSA



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).

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

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

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

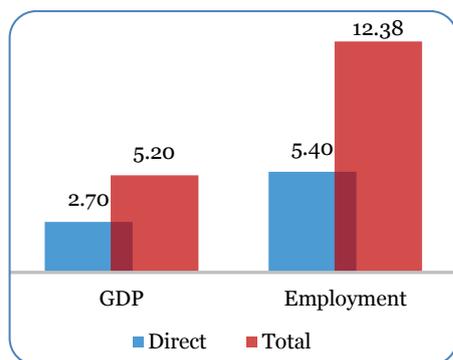
- There is a growing interest of tourism-related businesses in learning about the interrelation of their activity with others and its main determinants and seasonal cycles.
- There is a great necessity of improving the allocation of resources in national and local economies, which can only be achieved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

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



Source: Third Tourism Satellite Account for India – 2015-16

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 Uttarakhand 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 (Figure I.2).

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.

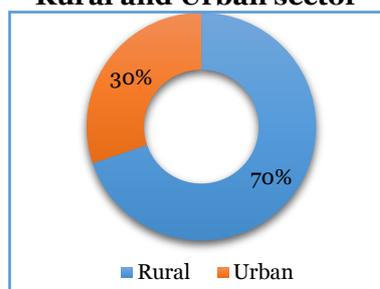
II. STATE PROFILE



- ❖ **Capital:** Dehradun
- ❖ **No. of Districts:** 13
- ❖ **Location:** North India
- ❖ **Land Area:** 53483 sq. Km
- ❖ **Climate:** Subtropical to temperate
- ❖ **Terrain:** Mountain and Hilly

The state of Uttarakhand is a northern landlocked state which shares its international border with China and Nepal and state border with Himachal Pradesh, Haryana, and Uttar Pradesh. The name of the state itself means the northern land.

Figure II.1: Population Breakup by Rural and Urban sector



Source: Census of India

Figure II.2: Work Force Participation Rates



Source: Census of India

II.1. Demographics and Social Profile

Uttarakhand has a population of 1.0 crore (As per Census 2011) and 30.4 lakh people reside in urban areas and the remaining 70.3 lakh in the rural areas. Thus, 70 percent of the total population resides in rural areas while 30 percent resides in urban areas which is lower than the all India level of urban population at about 31 per cent (Figure II.1). The major part of the population is under the age of 35.

The population density of the state is 189 per sq. Km which is lower than the national average of 368 per sq. Km. The literacy rate is 79.63 percent in the state. The overall sex ratio is 963 females per 1000 males. The total work participation in the state is 38.39 percent which is lower than the national average of 39.8 percent. The workforce participation rate by gender is presented in Figure II.2.

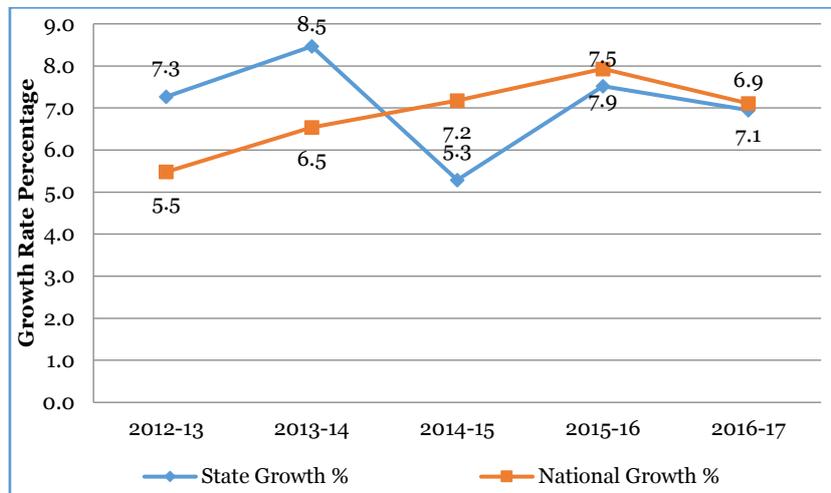
The state of Uttarakhand has a very spiritual culture and it is also called the land of gods because of the presence of many religious places and temples and it is a place where many spiritual Scholars reside. The major language of the state is Hindi.

II.2. Economic Profile

The macro indicators of the state in terms of Gross State Domestic Product (GSDP) at constant (2011-12) price for the year 2016-17 are showing a declining trend. The GSDP was Rs. 162451 Crore, the economic growth rate was 6.9 percent (Figure II.3). The net state domestic product was Rs. 144825 Crore. The per capita income was Rs. 133246.

The state is a Himalayan state and the state has a huge forest and water resource. The Primary sector of the state includes Fruit, Medicinal Products, and other crops include Rice, Soya, Oilseeds, Pulses, etc. There is a huge and growing food processing industry in the state. The state because of the huge forest cover, minor forest produce is also the part of the source of livelihood. The state has a huge tourism sector because of the huge number of important religious places and temples. Tourism is one of the major contributors to the economy of the state. The state is in the Himalayan ranges and thus have very diverse flora and fauna. The state is also a major producer of sports equipment and gears due to the availability of high-quality timber. The other major industries are hydroelectric generation industries.

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



Source: Central Statistics Office

Box II.1: Infrastructural indicators

 Total road: 61018Km,
Surfaced Road: 35583 Km

 1 Domestic Airport.

 Optic fiber cable Laid under Baharat net Phase-1 is 3127 Km.

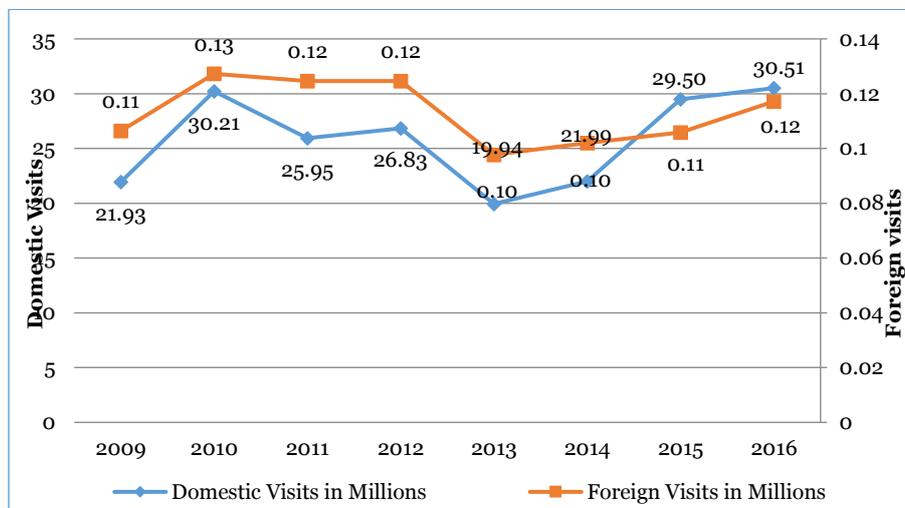
II.3. Infrastructure and Connectivity

The state despite a tough terrain and natural disaster and the state have connectivity to all the major places in the state. The state also has a significant Railway connectivity to all the major parts of the state.

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

The state have good educational and healthcare infrastructure. Dehradun will soon be developed as a smart city. The state can do better in terms of cleanliness which will improve the tourism and tourist experience in the state which will prove to be beneficial. 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



Source: India Tourism Statistics, Ministry of Tourism

Box II.2: Major Types of Tourism

	Monuments and buildings
	Wildlife and natural Tourism
	Adventure and Sports Tourism

II.4. Tourist Attractions

The state of Uttarakhand is a northern Himalayan state and is home to many religious places and ancient places and thus there are many temples, monuments and historical places in the state and also because of the geography the state has many hill stations that are preferred by the tourists.

The state has many temples and religious and Pilgrim site like the Chardham Yatra of Yamnotri, Gangotri, Kedarnath and Badrinath, other holy places are Haridwar, Rishikesh, Jageshwar, Baijnath, Hemhund Sahib, Shakti Peeth, Piran Kaliyar and many other religious places in the state which makes the state one of the largest states for religious tourism.

The state because of its geography and many rivers flowing through it provides a huge opportunity for adventure sports and tourism. The state has identified its potential and has promoted activities like Skiing, Trekking, Rafting, Camping, Mountain biking,

Paragliding and many more.

The state because of the spiritual culture and presence of many medicinal herbs, the wellness and medical tourism in the state has boomed and is expected to rise in the coming year. The health tourism in the state has great potential because of the increasing popularity of Ayurveda, Yoga and natural healing which the state is the best place for.

The state has old and rich culture including many tribes of Bhotias, Rangs, Tharus, Buxas, Jaunsaris, other indigenous groups of Mahigeers and Vangujjars. There are many folk dance and music performed by the people which include many songs related to telling the stories of the gods and the life of the people living there, few popular dramas are Ramlela, Krishna Kaths and many more.

The state has many festivals celebrated which include the Kumbh Mela at Haridwar, Kanvad Yatra, Bissu Mela, Magh Mela, Nanda Devi Raj Jaat Yatra, Kangdali festival, Uttarayani Mela, Nandadevi Mela, Poornagri Mela, Diwali, Holi, Janmashtami, Raksha Bandhan, Eid, and many more. These festivals bring about a wonderful colour to the life of the state.

Uttarakhand has 6 national parks of a total area of 4915.44 Sq. Km. and 7 wildlife sanctuaries. The state is in the Himalayan ranges and is a biological hotspot. The state has a dense forest, valley of flowers, high mountain peaks, rivers, glaciers, and lakes coupled with a rich biodiversity makes it a great state for wildlife and natural tourism. The state has the Famous Jim Corbett national park, Valley of flowers and Nanda Devi National Park which is a UNESCO world heritage site and many others to which tourist specifically come to visit.

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

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

During Last 365 days for trips with purposes

- Health
- Holidaying
- Shopping

During Last 30 days for trips with purposes

- Business
- Social
- Religious
- Education
- Others

and Statistics, 2012.

- Supply and Use Table (Central Statistics Office), 2012-13.

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 captured. Regarding data 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:

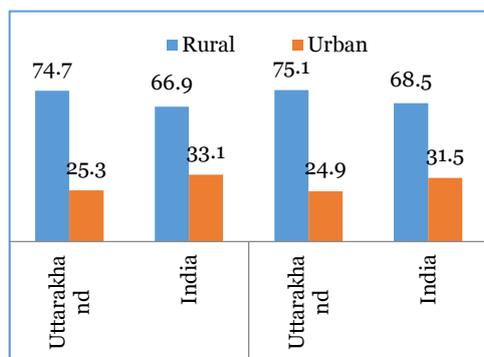
- Have at least one member who performed overnight trip during last 365 days for the following leading purposes:
 - Health & medical
 - Holidaying, leisure & recreation
 - Shopping

- 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

Figure III.1: Percent distribution of domestic trips by rural and urban areas



Source: DTS 2014-15 and NCAER computation

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 is presented separately for these two sets of trips.

In Uttarakhand, the sample number of households was 2195, comprising 1297 from rural areas and 898 from urban areas. Number of sample households reporting overnight visitors were 1703. In other words, 77.6 per cent of the sample households reported overnight visitors.

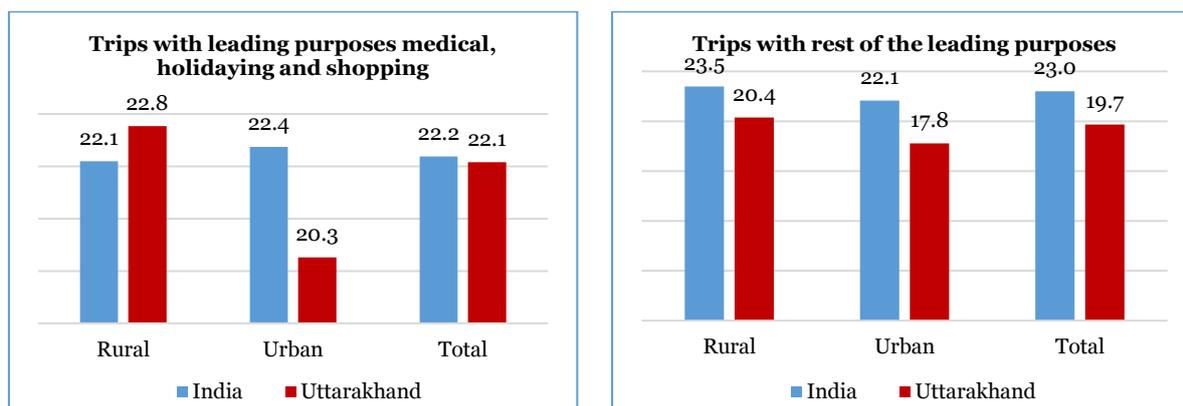
The survey estimates the total number of households in Uttarakhand to be 20.2 lakh. Of these, 7.2 lakh households (or 35.7 per cent) reported having overnight visitors. The rural-urban breakup suggests that of the total visitor reporting households, 74 per cent belonged to the rural areas.

About 74.9 per cent of the overnight trips, among both with reference period 365 days (with purposes medical, holidaying and shopping) and 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 households 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 Uttarakhand than the national average number of trips per 100 households. This is true for urban areas. Among all the states and UTs of India, Uttarakhand ranks 21st 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, Uttarakhand secures 21st position among all states and UTs of India (Figure III.2).

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

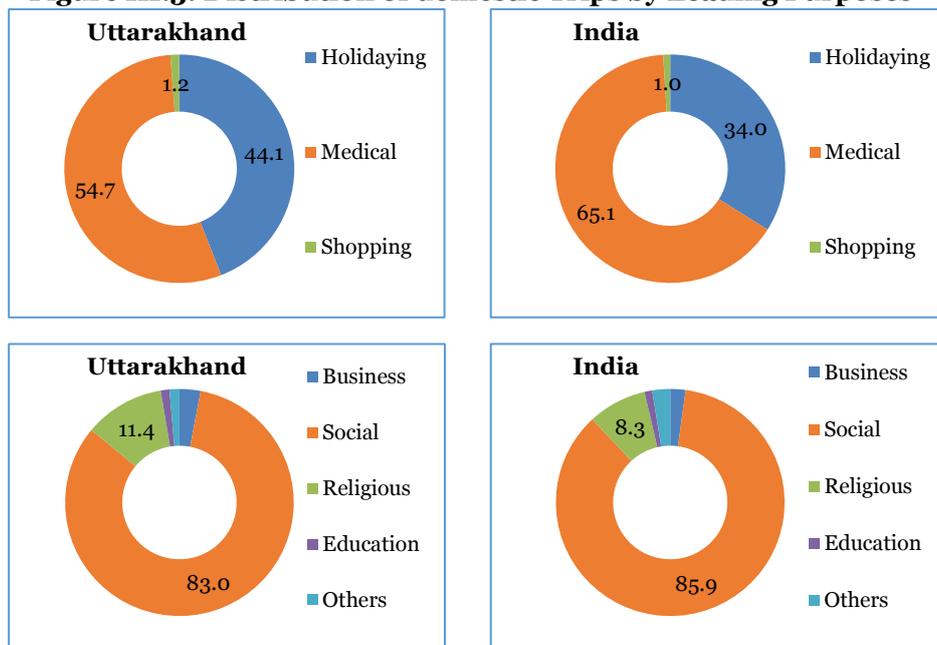


Source: DTS 2014-15 and NCAER computation

The distribution of overnight trips by leading purposes – medical, holidaying and shopping - reveal that people living in Uttarakhand travel mostly for medical. While at all-India level, among these three purposes, almost 65.1 percent travel for medical purpose, in Uttarakhand this proportion is 54.7 percent, followed by 44.1 percent for holidaying.

The distribution of trips by rest of the purposes is not very different in Uttarakhand from that in India. For both Uttarakhand and all-India, most of the trips undertaken are for social purpose, accounting for 83.0 percent in Uttarakhand and 85.9 percent in India, as a whole.

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).

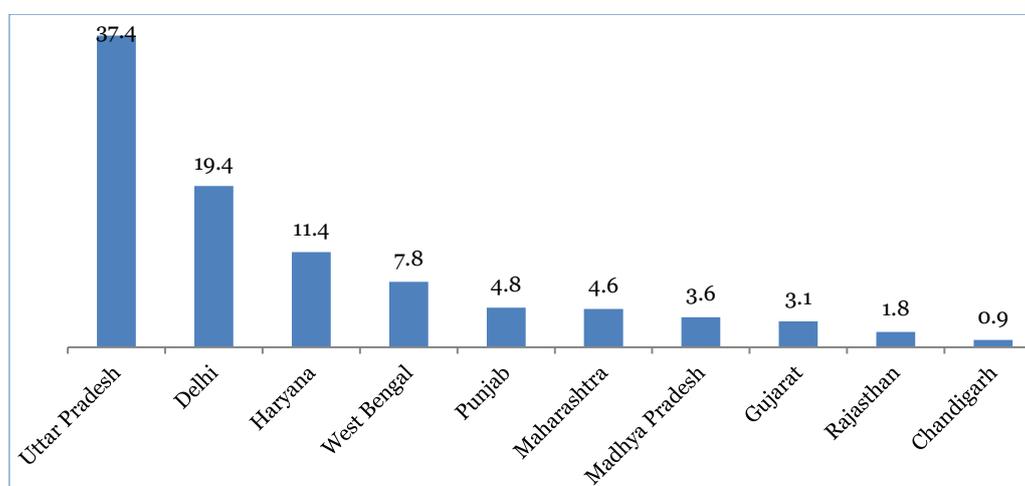
Table III.1: Percent domestic trips undertaken within the state

	Uttarakhand	All-India average
Reference Period 365 days		
Holidaying	81.3	65.9
Medical	85.8	91.8
Shopping	88.7	81.2
Reference Period 30 days		
Business	96.0	70.9
Social	90.2	93.1
Religious	93.7	75.0
Education	100.0	76.2
Others	95.9	84.0

Source: DTS 2014-15 and NCAER computation

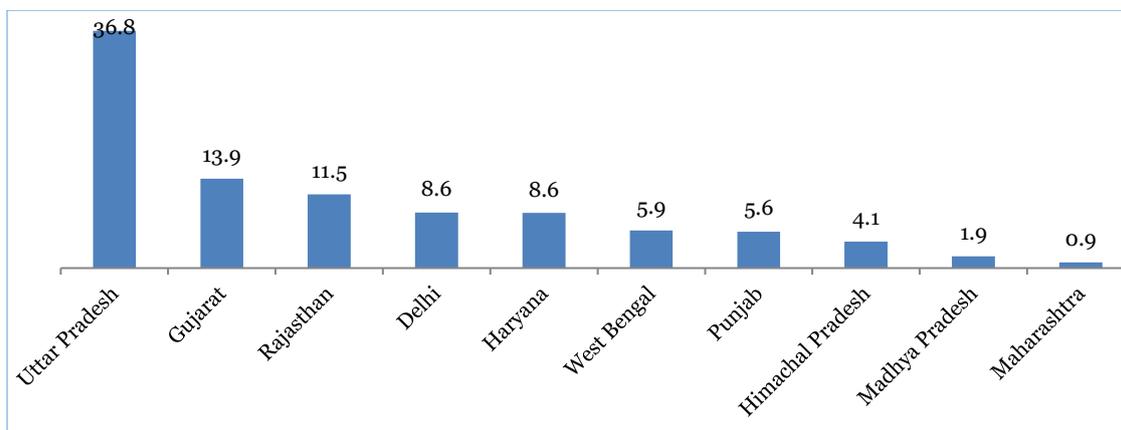
Among the trips undertaken from other states of India, the majority are undertaken from Uttar Pradesh, Delhi and Haryana. The percent distribution of trips undertaken from “outside state” is presented in Figure III.4a and Figure III.4b.

Figure III.4a: Percent domestic trips (with leading purposes holiday, medical and shopping and with 365-day reference period) to Uttarakhand from top 10 other states



Source: DTS 2014-15 and NCAER computation

Figure III.4b: Percent domestic trips (with leading purposes other than holiday, medical and shopping and with 30-day reference period) to Uttarakhand from top 10 other states



Source: DTS 2014-15 and NCAER computation

Use of DTS data for TSA

The DTS data that were used in the preparation of TSA for Uttarakhand 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 Uttarakhand. 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.

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

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

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 Uttarakhand, the following locations were identified as LPNH by the respondents:

- Auli
- Badrinath
- Bageshwar
- Champawat
- Dehradun
- Doiwala
- Gangotri
- Haldwani
- Haridwar
- Kashipur
- Kedarnath
- Landsdowne
- Nandaprayag
- Rudraprayag
- Sultanpur
- Mussoorie
- Nainital
- Ranikhet
- Hrishikesh

For outbound tourism, Indian residents travelling abroad were canvassed through 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 pre-trip 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.

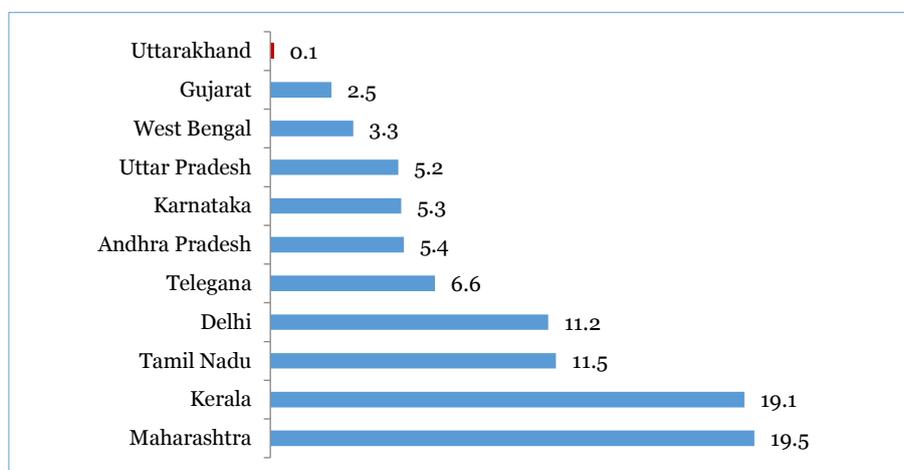
Key IPS findings for Uttarakhand

The estimated total number of all visitors coming to India is 83,290,78. Estimated total number of outbound Indians is 20,523,715. 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 Uttarakhand, number of outbound tourists travelling abroad is estimated to be 27,656, which is 0.1 percent of total outbound tourists from India. This

places Uttarakhand at 24th position among all the states of India in total outbound tourists (Figure III.5).

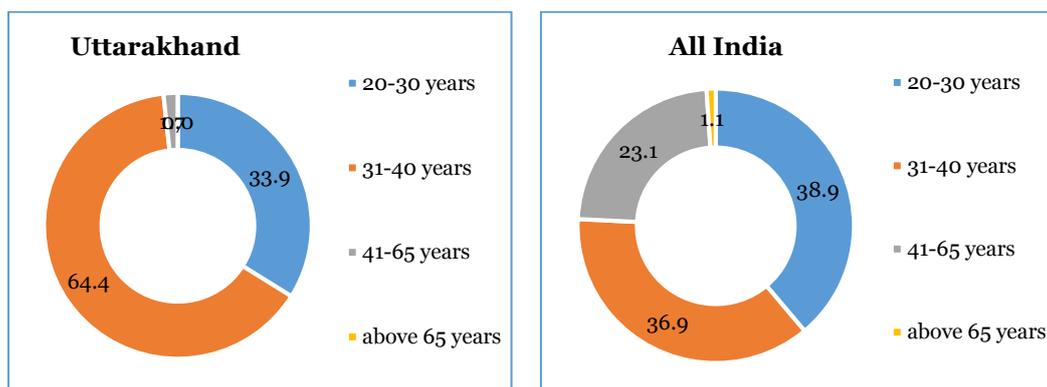
Figure III.5: Percentage share of Top 10 states in total Outbound Tourists



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 (64.4 percent) belong to age group of 31 to 40 years. This is followed by 33.9 percent of those who belong to 20 to 30 years age group. As compared to this, at all- India level most of the outbound tourists travelling are in the age group of 20 to 30 years constituting 38.9 of the total outbound tourists. (Figure III.6).

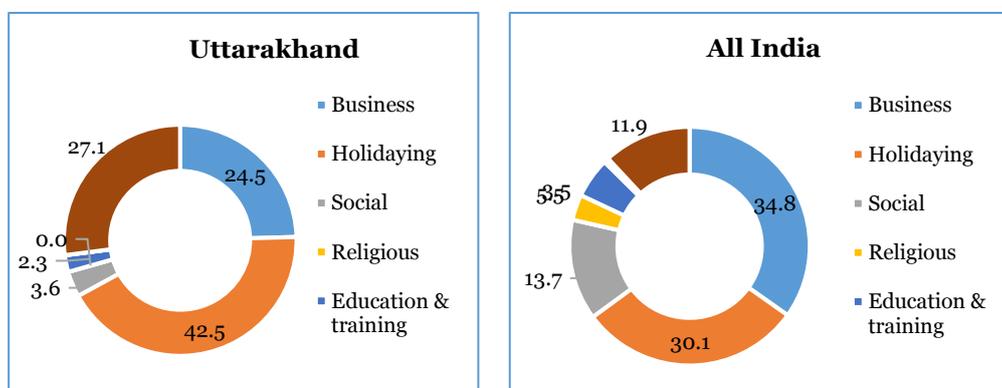
Figure III.6: Distribution of Outbound tourists by age-groups



Source: IPS 2015-16 and NCAER computation

The leading purpose of most of the outbound tourists travelling from Uttarakhand to other countries is holidaying. This is in contrast with the distribution observed at all-India level where business or professional is the main reason of travelling (Figure III.7).

Figure III.7: 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 Uttarakhand

From Uttarakhand, a total of 1784 households were surveyed with 1048 households from rural areas and the remaining from urban areas. From these households, 4830 persons were surveyed from rural and 3054 from urban areas.

The survey estimates the number of households to be

21 lakh in Uttarakhand. With the average household size of 4.4, the survey estimates the total population at 93 lakh. Table III.2 presents the estimated numbers of workers by principal and subsidiary status.

**Table III.2: Estimated number of workers by status-Uttarakhand (EUS-NSS
(NUMBERS IN THOUSAND)**

Worker		Rural			Urban			All		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Principal	Own Account worker	926.5	659.6	1586.1	313.4	31.2	344.6	1239.9	690.8	1930.7
	Employer	0.0	0.0	0.0	11.3	0.0	11.3	11.3	0.0	11.3
	Regular Employee	259.5	33.9	293.4	253.8	41.5	295.4	513.3	75.4	588.8
	Casual wage labour	338.0	22.2	360.2	60.9	3.3	64.2	398.9	25.5	424.4
	Total	1524.0	715.7	2239.7	639.5	76.0	715.5	2163.5	791.7	2955.3
Subsidiary	Own Account worker	326.5	330.6	657.1	14.6	28.8	43.3	341.0	359.4	700.4
	Employer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Regular Employee	12.3	0.4	12.7	0.9	1.3	2.2	13.2	1.7	14.9
	Casual wage labour	151.9	44.1	196.0	4.0	0.8	4.9	156.0	44.9	200.9
	Total	490.7	375.0	865.7	19.6	30.9	50.4	510.2	405.9	916.2
Principal + Subsidiary	Own Account worker	1252.9	990.2	2243.1	328.0	59.9	388.0	1581.0	1050.1	2631.1
	Employer	0.0	0.0	0.0	11.3	0.0	11.3	11.3	0.0	11.3
	Regular Employee	271.8	34.3	306.1	254.8	42.8	297.6	526.5	77.1	603.7
	Casual wage labour	490.0	66.3	556.2	65.0	4.1	69.1	554.9	70.4	625.3
	Total	2014.7	1090.8	3105.4	659.1	106.9	766.0	2673.8	1197.6	3871.4

Source: NSSO EUS, 2011-12

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 important parameters namely 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)

Table III.3: Estimated number of workers by status – Uttarakhand (EUS-Labour Bureau
(NUMBERS IN THOUSAND)

Worker		Rural			Urban			All		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Principal	Own Account worker	615.07	81.07	696.14	426.49	70.16	496.64	1041.56	151.23	1192.78
	Employer	123.75	149.59	273.33	130.59	112.89	243.48	254.33	262.48	516.81
	Regular Employee	471.85	82.61	554.46	354.88	49.39	404.27	826.73	132.00	958.73
	Casual wage labour	220.94	31.68	252.62	366.74	77.20	443.94	587.68	108.88	696.56
	Total	1431.60	344.95	1776.55	1278.69	309.64	1588.33	2710.29	654.59	3364.89
Subsidiary	Own Account worker	16.90	20.39	37.29	29.22	17.81	47.02	46.11	38.20	84.31
	Employer	27.92	22.91	50.83	43.81	42.94	86.76	71.73	65.85	137.58
	Regular Employee	4.51	5.81	10.32	0.00	0.00	0.00	4.51	5.81	10.32
	Casual wage labour	101.73	120.62	222.35	39.55	37.57	77.13	141.28	158.20	299.48
	Total	151.05	169.73	320.79	112.58	98.33	210.90	263.63	268.06	531.69
Principal + Subsidiary	Own Account worker	631.97	101.46	733.43	455.70	87.97	543.67	1087.67	189.43	1277.09
	Employer	151.66	172.49	324.16	174.40	155.84	330.23	326.06	328.33	654.39
	Regular Employee	476.36	88.42	564.78	354.88	49.39	404.27	831.24	137.81	969.05
	Casual wage labour	322.67	152.31	474.97	406.29	114.78	521.07	728.96	267.08	996.04
	Total	1582.66	514.68	2097.34	1391.27	407.97	1799.24	2973.93	922.65	3896.58

Source: Annual Employment-Unemployment Survey, Labour Bureau, 2015

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 66th round was 1,00,794 (59,097 in rural areas and 41,697 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 Uttarakhand

According to CES, MPCE (at MRP) on food and non-food in rural Uttarakhand is higher than that for All India MPCEs respectively. Overall MPCE in rural Uttarakhand (Rs. 1551.42) is about 17.0 percent higher than all India (Rs. 1287.17) and same for urban Uttarakhand (Rs. 2452.02) is also about 1.0 percent lower than that for urban India (Rs. 2477.03) as given in Table III.4.

Table III.4: Food and Non-Food Expenditure (MRP) in 2011-12

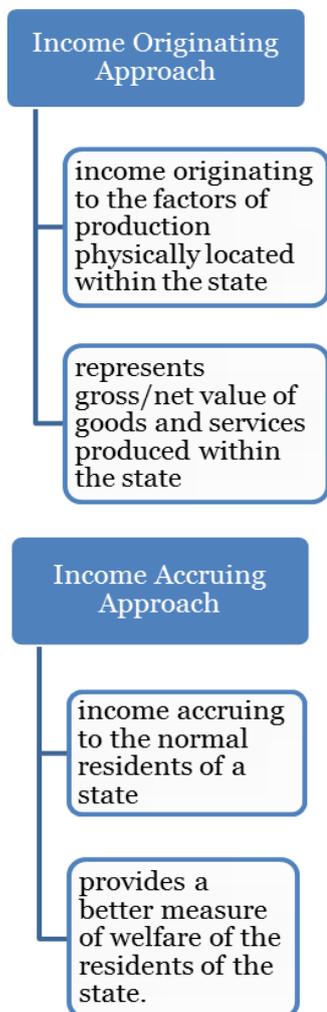
State	Rural/Urban	Food Expenditure	Non-Food Expenditure	MPCE (MMRP)
Uttarakhand	Rural	735.41	816.01	1551.4
	Urban	987.34	1464.7	2452
All India	Rural	621.96	665.21	1287.2
	Urban	922.91	1554.1	2477

Source: NSS 68th round, Key Indicators of Household Consumer Expenditure in India, 2011-12

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 state-level, 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

Approaches to State Income



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, livestock products, fisheries, forest 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 sub-matrices:

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 product-wise 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

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

form the Production account of tourism industries. The official GSDP account for the state, as available with CSO, is given in Table III.5.

**Table III.5: Gross Value Added by Economic activity at Current prices of Uttarakhand
(RS. IN LAKH)**

S. No.	Item	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
1	Agriculture, forestry and fishing	1330208	1536643	1579094	1611418	1625085	1675529	1787458
1.1	Crops	764026	901730	850163	862131	834100	856618	903330
1.2	Livestock	287787	313744	351373	400879	448124	488626	531969
1.3	Forestry and logging	274833	317353	373062	343611	337739	324849	346214
1.4	Fishing and aquaculture	3562	3815	4497	4796	5123	5436	5944
2.	Mining and quarrying	186083	205726	354844	236698	235430	267569	291542
	<i>Primary</i>	1516291	1742369	1933938	1848116	1860516	1943099	2078999
3.	Manufacturing	4365135	5082899	5440406	5874343	6455210	7055544	7437615
4.	Electricity, gas, water supply & other utility services	398079	416111	375058	431295	514239	579446	685599
5.	Construction	883766	936950	1242406	1297607	1336103	1503299	1722788
	<i>Secondary</i>	5646981	6435960	7057870	7603244	8305552	9138289	9846003
6	Trade, repair, hotels and restaurants	1192897	1408869	1613980	1788267	1953656	2216493	2517371
6.1	Trade & repair services	1013998	1218821	1426253	1590891	1722520	1967889	2249969
6.2	Hotels & restaurants	178898	190048	187727	197375	231136	248604	267402
7.	Transport, storage, communication & services related to broadcasting	691813	811659	934918	1066333	1195194	1379715	1596814
7.1	Railways	14143	16517	17200	21899	27476	32539	38535
7.2	Road transport	218488	259840	287156	307003	310090	339857	372865
7.3	Water transport	0	0	0	0	0	0	0
7.4	Air transport	652	1229	2158	2281	4264	7001	11496
7.5	Services incidental to transport	0	0	0	-76	-34	0	0
7.6	Storage	579	678	735	646	720	766	814
7.7	Communication & services related to broadcasting	457950	533395	627669	734580	852678	999553	1173104
8	Financial services	293318	320421	359123	402327	447068	496771	551999
9.	Real estate, ownership of dwelling & professional services	588825	671182	739177	814718	863961	956746	1062185
10.	Public administration	404304	315475	483906	609170	651177	737438	834149
11.	Other services	498856	668947	827478	916515	986036	1099186	1308119
	<i>Tertiary</i>	3670012	4196554	4958582	5597330	6097093	6886349	7870637
12	TOTAL GSVA at basic prices	10833284	12374882	13950390	15048689	16263160	17967737	19795639
13	Taxes on Products	919682	1067367	1217857	1392111	1594732	1893710	2287794
14	Subsidies on products	220207	280963	260811	296913	280646	300839	322486
15	Gross State Domestic Product	11532759	13161287	14907436	16143887	17577246	19560607	21760947
16	Population ('00)	101650	103020	104410	105820	107240	108690	110160
17	Per Capita GSDP (Rs.)	113456	127755	142778	152560	163906	179967	197539

Source: Central Statistical Office

IV. METHODOLOGY

There are two main types of approaches to prepare the regional TSAs – Regionalization 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 regionalization 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.

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

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

Approach	Data requirement	Data availability
Regional estimation (bottom-up)	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)
	Statistics on supplies from the domestic production and imports (which include from other states) to meet these purchases of tourists	- Data on supplies from domestic production is available - Data on imports at state level is not available
	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	- In the absence of data on imports, it is not possible to compile SUT at state level. - 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. - This SUT though not suitable for TSA, can be used for estimating indirect effects of tourism consumption, value added and employment.
	Estimate value added out of the domestic production that is involved in supplying products for tourists' purchases	- 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. - However, it is possible to compute GVATI and TDGVA using national tourism ratios of output of industries, as suggested in the TSA: RMF 2008.
Regionalisation (top-down)	National TSA and tourism ratios by products and industries	Available
	State level tourism consumption	Available
	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

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 and definitions of components of 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 figure (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

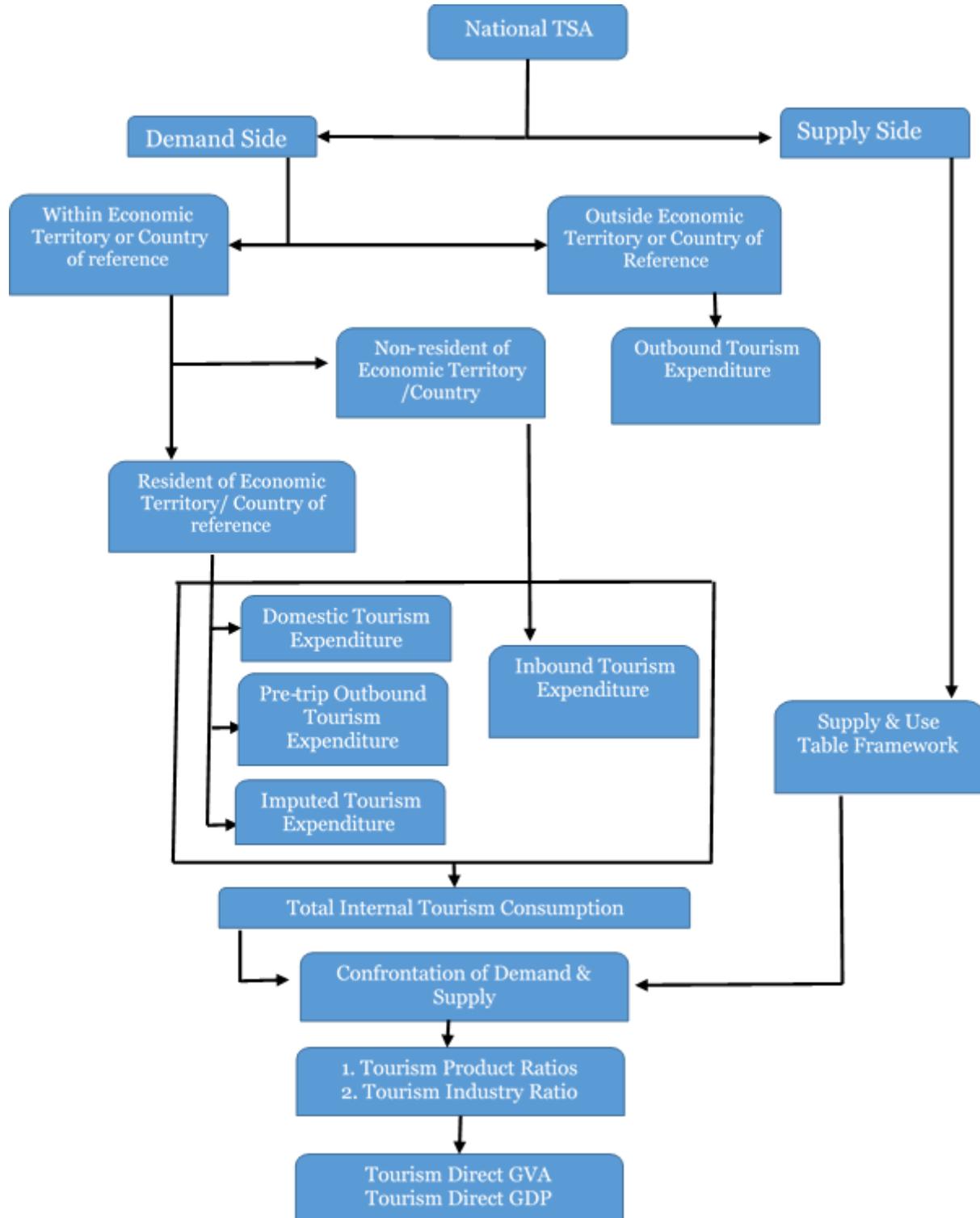
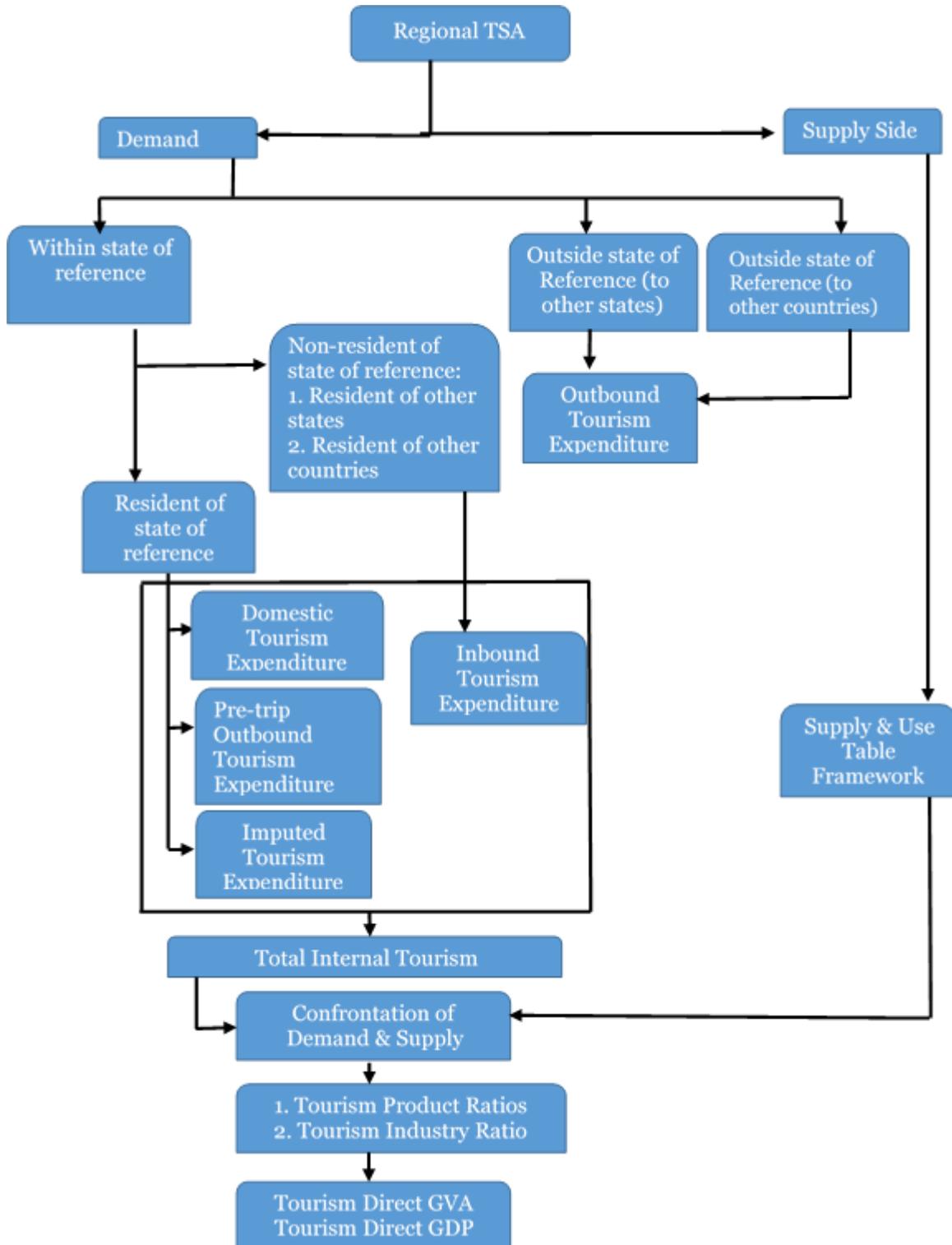


Figure IV.2: Conceptual Framework of State TSA



IV.2. Compilation of State TSAs

According to 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 RTSAs. However, with the information that is 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.

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

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 transport activities
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 services	Processed food products
	Beverages
	Tobacco products
	Readymade garments
	Printing and publishing
	Leather footwear
	Travel related consumer goods
	Soaps and cosmetics
Gems and jewellery	

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 Statistics¹ 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.

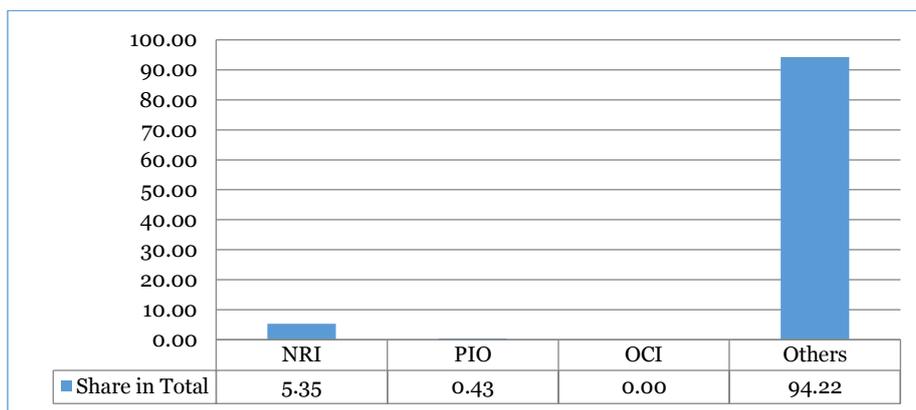
A total of 61383 residents from other countries are estimated to have travelled to the state of reference as inbound international tourists during 2015-16. Of these, maximum (94.22 percent) belonged to 'others' category, followed by 5.35 percent NRI tourists (Figure IV.3).

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. 81137.

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

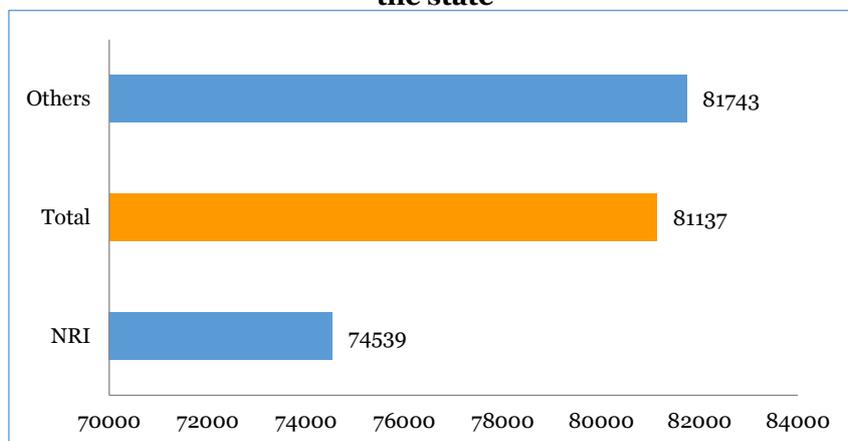
¹ It may be noted that India Tourism Statistics reports the number of Foreign Tourist Visits (FTV) by states. Also available is the total number of tourist arrivals (FTA) in the country as a whole. The ratio of national level FTV and FTA is applied on state-level FTV to arrive at state-level FTA.

Figure IV.3: Percent distribution of International inbound tourists



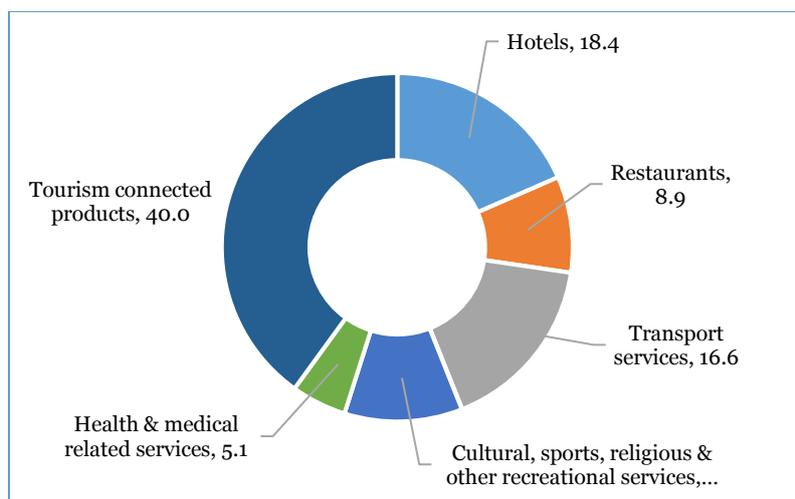
Source: NCAER computation using IPS, 2015-16

Figure IV.4: Average per-tourist expenditure (Rs.) incurred by international tourist in the state



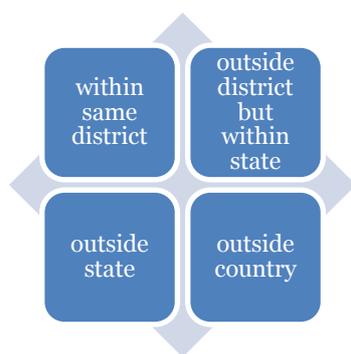
Source: NCAER computation using IPS, 2015-16

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



Source: NCAER computation using IPS, 2015-16

Figure IV.6: Main destination for a domestic tourist



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:

Table IV.3: Consumption Expenditure Adjustment Factors

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

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 2014-15.²

Also item-wise price adjustment is done due to price 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”).

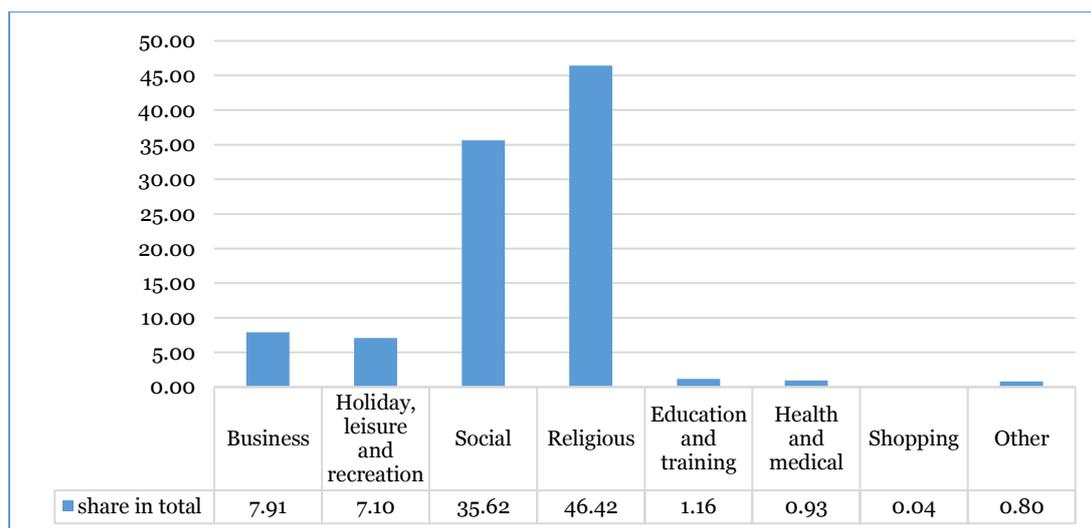
² Refer to India Tourism Statistics, 2017.

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.

A total of 4828187 residents of other states are estimated to have travelled as inbound tourists to the state of reference during 2015-16. Of these, maximum (46.42 percent) travelled for religious purpose, followed by 35.62 percent who travelled for 'social' purpose (Figure IV.7).

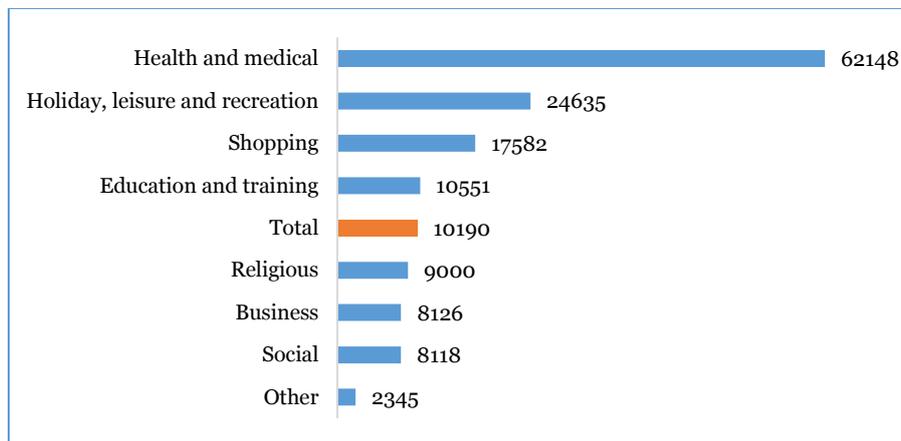
Figure IV.8 presents the average per-tourist expenditure incurred by tourists from other states visiting the state of reference. The average per-tourist expenditure is estimated at Rs. 10190. Figure IV.9 presents the percent distribution of expenditure by major items of consumption.

Figure IV.7: Percent distribution of inbound tourists from other states to the state of reference by leading purposes of travel



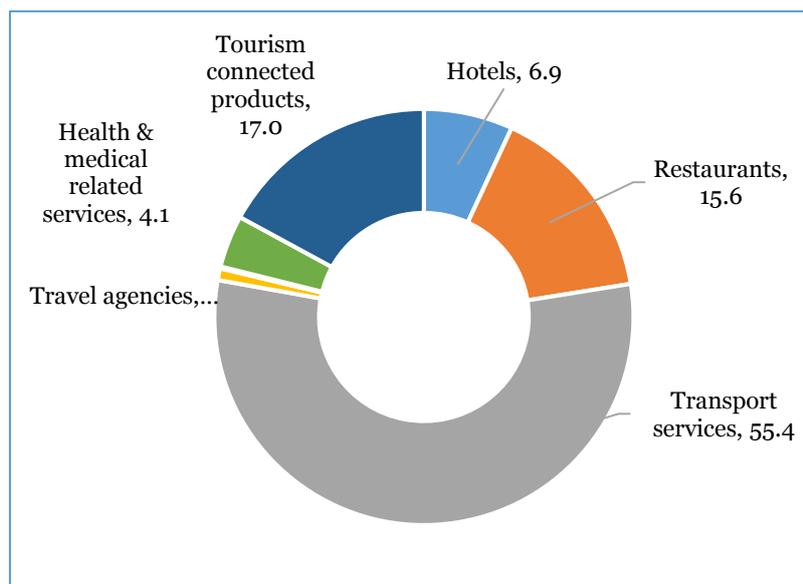
Source: NCAER computation using IPS, 2015-16

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



Source: NCAER computation using IPS, 2015-16

Figure IV.9: Percent distribution of Inbound Tourism Expenditure (incurred by tourists from other states) by products and services



Source: NCAER computation using IPS, 2015-16

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 information on domestic tourism expenditure. 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

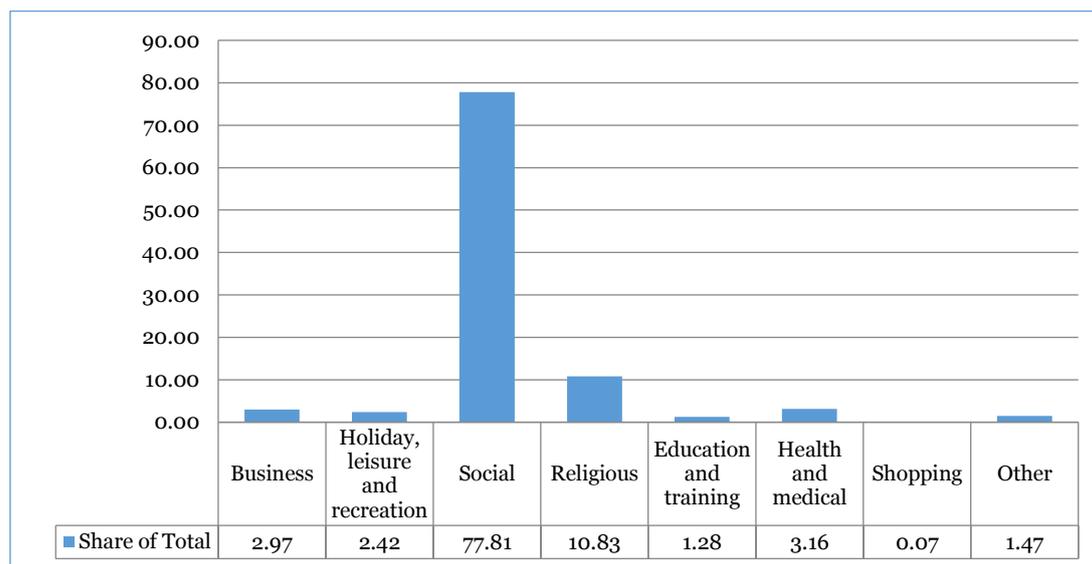
states to state of reference.

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

A total of 7463963 residents of the state are estimated to have travelled within the state as domestic tourists during 2015-16. Of these, maximum (77.81 percent) travelled for social purpose, followed by 10.83 percent who travelled for 'religious' purpose (Figure IV.10).

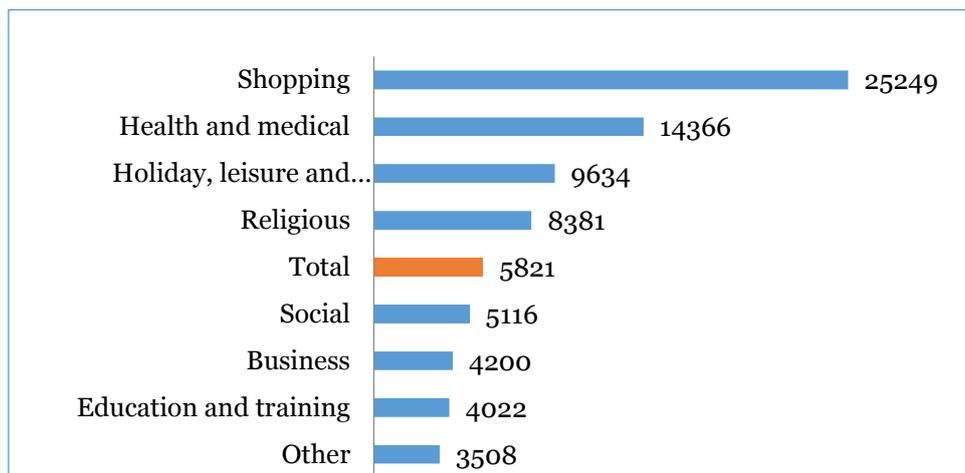
Figure IV.11 presents the average per-tourist expenditure incurred by tourists from within the state of reference. The average per-tourist expenditure is estimated at Rs. 5821. Figure IV.12 presents the percent distribution of expenditure by major items of consumption.

Figure IV.10 Percent distribution of domestic tourists by leading purposes of travel



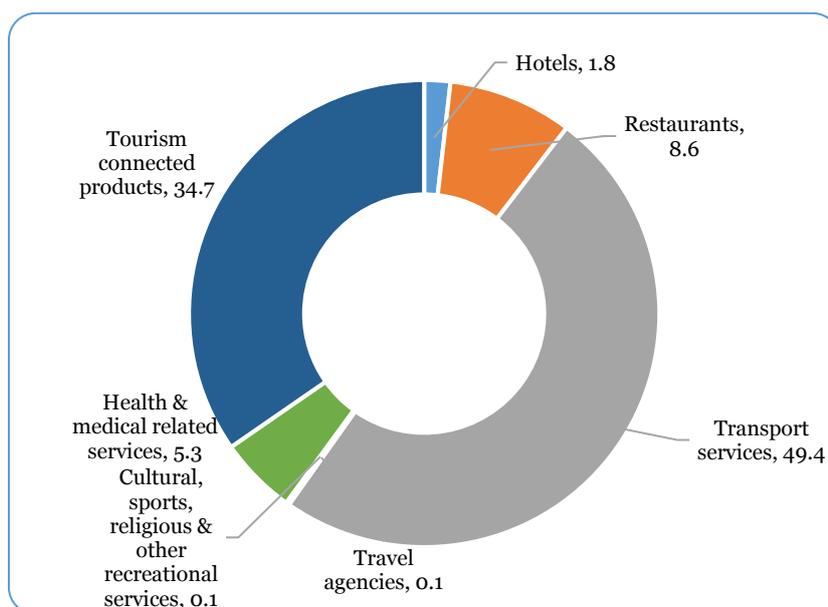
Source: NCAER computation using DTS, 2014-15

Figure IV.11: Average per-tourist expenditure (Rs.) incurred by tourists from within the state of reference



Source: NCAER computation using DTS, 2014-15

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



Source: NCAER computation using DTS, 2014-15

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.

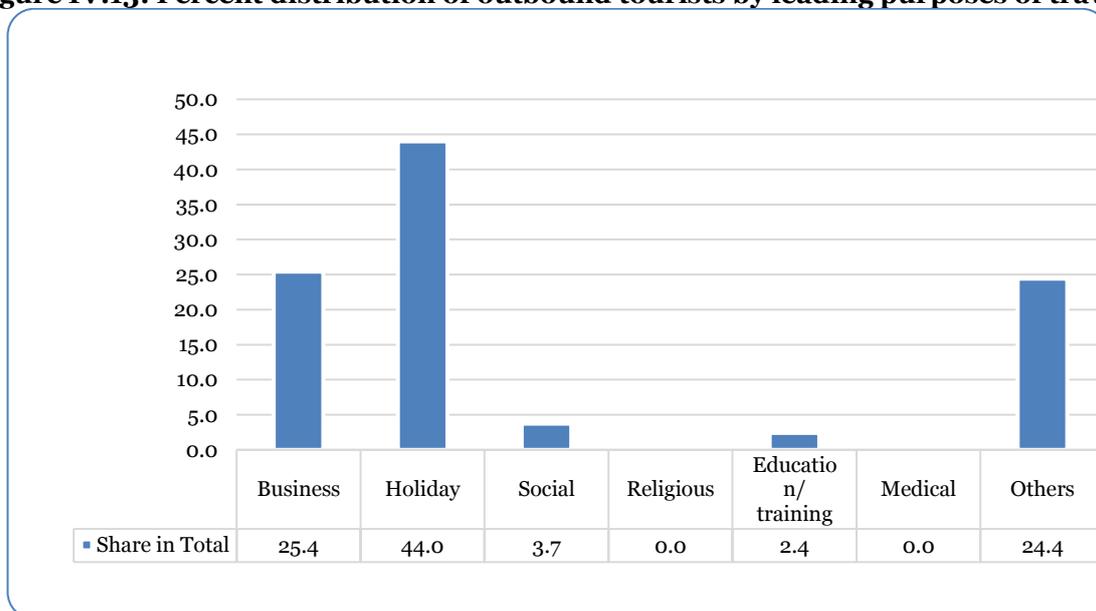
The data on outbound tourism pre-trip expenditure incurred by residents travelling abroad were collected in a separate survey conducted by the ISI, Kolkata, which was a part of IPS. However, data on expenditure incurred by resident visitors travelling to other states of India was beyond the scope of 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 26684 residents of the state are estimated to have travelled abroad as outbound tourists during 2015-16. Of these, maximum (44.0 percent) travelled for holiday, followed by 25.4 percent who travelled for business purpose (Figure IV.13).

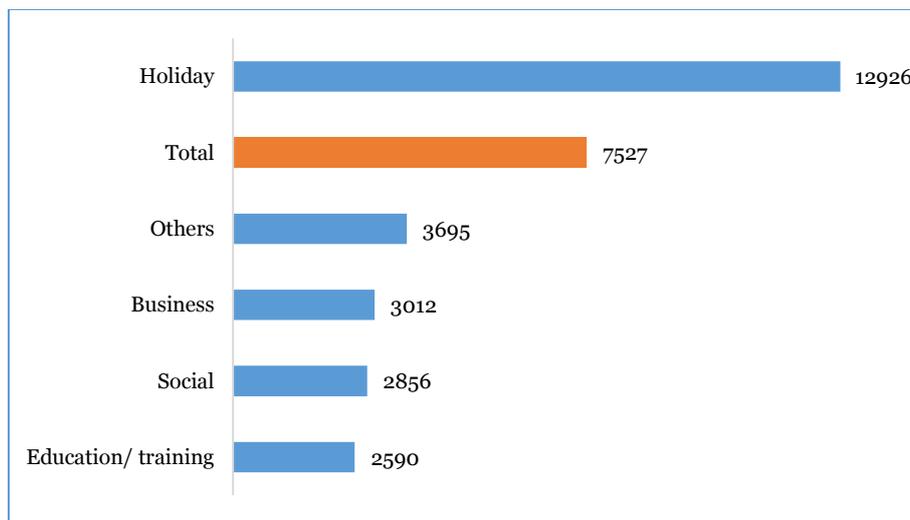
Figure IV.14 presents the average per-tourist expenditure incurred by outbound tourists originating from the state of reference. The average per-tourist expenditure is estimated at Rs. 7527. Figure IV.15 presents the percent distribution of expenditure by major items of consumption.

Figure IV.13: Percent distribution of outbound tourists by leading purposes of travel



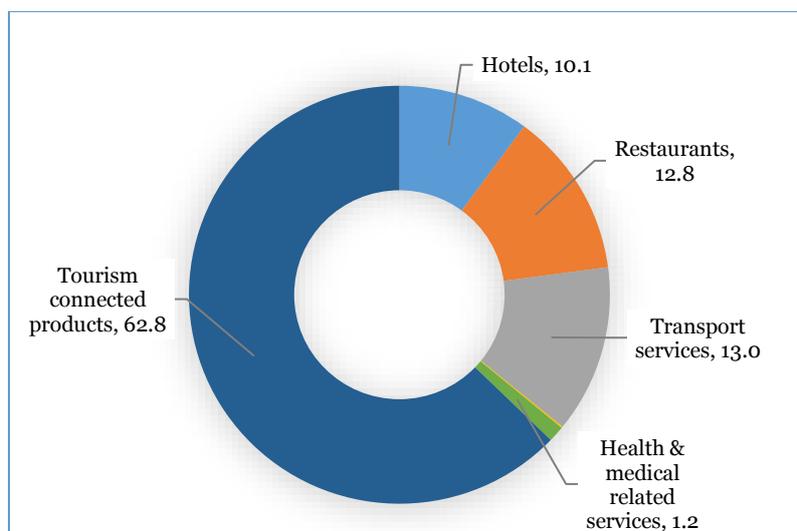
Source: NCAER computation using IPS 2015-16

Figure IV.14: Average per-tourist expenditure (Rs.) incurred by outbound tourists in the state of reference



Source: NCAER computation using IPS 2015-16

Figure IV.15: Percent distribution of Outbound Tourism Expenditure 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.³ 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 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.⁴
- 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

³ 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.

⁴ The economic activities covered under owner-occupied dwelling services include ownership of dwellings (occupied residential houses) and the imputed value of owner-occupied dwellings.

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 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	18.0	66.3	15.3	0.4	100.0
2 Food and beverage serving services/Restaurants	3.7	64.7	31.4	0.2	100.0
3 Railway passenger transport services	0.2	98.3	1.4	0.1	100.0
4 Road passenger transport services	0.2	43.4	56.4	0.0	100.0
5 Water passenger transport services	11.5	88.4	0.1	0.0	100.0
6 Air passenger transport services	19.2	80.7	0.0	0.1	100.0
7 Transport equipment rental services	4.0	78.2	17.8	0.0	100.0
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0.3	87.2	12.5	0.0	100.0
9 Cultural and religious services	84.3	10.0	5.6	0.0	100.0
10 Sports and other recreational services	46.4	39.6	13.9	0.0	100.0
11 Health and medical related services	5.5	43.7	50.7	0.1	100.0
12 Readymade garments	6.2	34.2	59.0	0.6	100.0
13 Processed Food	0.3	39.4	60.1	0.2	100.0
14 Alcohol & Tobacco products	9.9	46.4	43.0	0.8	100.0
15 Travel related consumer goods	5.2	71.7	23.1	0.0	100.0
16 Footwear	9.2	17.7	73.2	0.0	100.0
17 Soaps, cosmetics and glycerin	9.7	19.8	70.5	0.0	100.0
18 Gems and jewellery	29.5	20.5	49.6	0.4	100.0
19 Books, journals, magazines, stationery etc.	23.2	39.8	34.5	2.6	100.0
Total Expenditure	5.1	50.3	44.4	0.2	100.0
A.3 Other imputed connected products	0.0	0.0	100.0	0.0	100.0
Total (Rs. Crore)	4.3	42.2	53.3	0.2	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. 1171957 lakh, which is 7.2 percent of total GVA of the state economy.

Table IV.5: Economic Aggregates of Industries

	Industry	Gross Value of Output (Rs. lakh)	GVA (Rs. lakh)	Share in Total GVA (%)
1	Agriculture and allied	2057261	1628380	10.0
2	Mining, other manufacturing, construction, electricity, gas and water supply	23082002	5918369	36.2
3	Trade	2451682	1811067	11.1
4	Transport freight services	489694	223950	1.4
5	All non-tourism specific services	11114759	5605778	34.3
6	Accommodation services/Hotels	91046	31068	0.2
7	Food and beverage serving services/Restaurants	575765	196469	1.2
8	Railway passenger transport services	7877	5219	0.0
9	Passenger transport services	292877	130034	0.8
10	Water passenger transport services	0	0	0.0
11	Air passenger transport services	17210	3957	0.0
12	Transport equipment rental services	504	344	0.0
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	-7	-3	0.0
14	Cultural and religious services	1008	663	0.0
15	Sports and other recreational services	22024	12498	0.1
16	Health and medical related services	222340	137582	0.8
17	Readymade garments	49617	16304	0.1
18	Processed Food	1434715	260097	1.6
19	Alcohol & Tobacco products	55656	18871	0.1
20	Travel related consumer goods	419369	73088	0.4
21	Footwear	332	97	0.0
22	Soaps, cosmetics and glycerin	441808	96127	0.6
23	Gems and jewellery	280805	27288	0.2
24	Books, journals, magazines, stationery etc.	726670	162253	1.0
	Total – all industries	43835013	16359502	100
	Total Tourism specific industries (Tourism characteristic and Tourism connected)	4639615	1171957	7.2

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 by 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.

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

		Total Supply (Rs. Lakh)	Adjusted Tourism Consumption (Rs. Lakh)	Tourism Product Ratio (%)	Tourism Industry Ratio (%)	GVA (Rs. Lakh)	TDGVA (Rs. Lakh)
1	Agriculture and allied	2452239	0	0.0	0.00	1628380	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	34536240	0	0.0	0.01	5918369	330
3	Trade	0	0	0.0	0.08	1811067	1496
4	Transport freight services	0	0	0.0	3.48	223950	7804
5	All non-tourism specific services	6976687	280803	4.0	2.15	5605778	120286
6	Accommodation services/Hotels	132268	95233	72.0	71.36	31068	22170
7	Food and beverage serving services/Restaurants	619921	330149	53.3	54.21	196469	106508
8	Railway passenger transport services	8880	6199	69.8	69.80	5219	3643
9	Road passenger transport services	309480	193856	62.6	52.44	130034	68190
10	Water passenger transport services	4946	1831	37.0	0.00	0	0
11	Air passenger transport services	20966	17003	81.1	81.10	3957	3209
12	Transport equipment rental services	574	218	38.0	38.00	344	131
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	1118	573	51.3	51.25	-3	-2
14	Cultural and religious services	1125	226	20.1	20.10	663	133
15	Sports and other recreational services	43554	193	0.4	0.44	12498	55
16	Health and medical related services	248805	73607	29.6	29.58	137582	40702
17	Readymade garments	72036	25571	35.5	0.00	16304	0
18	Processed Food	2059222	25145	1.2	0.00	260097	1
19	Alcohol & Tobacco products	172815	9811	5.7	0.02	18871	4
20	Travel related consumer goods	152109	4178	2.7	0.04	73088	27
21	Footwear	117523	32320	27.5	0.00	97	0
22	Soaps, cosmetics and glycerin	580030	3132	0.5	0.00	96127	3
23	Gems and jewellery	2080318	15231	0.7	0.06	27288	16
24	Books, journals, magazines, stationery etc.	114393	3966	3.5	0.00	162253	3
	Total	50705248	1119242	2.2	2.29	16359502	374709

Source: NCAER computation using TSA Table 6

Key Findings:

- The value of Total supply of all industries in the state is Rs. 50705248 lakh, of which Rs. 1119242 lakh is on account of tourism. This is 2.2 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. 374709 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 three-digit 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 re-circulated 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, the tourism industry ratios and tourism 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 Products and by types of tourists (Rs. LAKH)

Item	Non-Resident Indians	Foreigner PIO	Foreigner OCI	Other Foreigners	Total International Demand
A.1. Tourism characteristic products					
1. Accommodation services/Hotels	458	8	0	8706	9172
2 Food and beverage serving services/Restaurants	284	10	0	4147	4442
3 Railway passenger transport services	0	0	0	154	154
4 Road passenger transport services	142	8	0	574	725
5 Water passenger transport services	0	0	0	211	211
6 Air passenger transport services	495	12	0	5639	6146
7 Transport equipment rental services	72	0	0	978	1049
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	16	16
9 Cultural and religious services	124	13	0	5184	5321
10 Sports and other recreational services	0	0	0	90	90
11 Health and medical related services	35	0	0	2502	2537
A.2 Tourism connected products					
12 Readymade garments	425	23	0	9558	10006
13 Processed Food	0	0	0	70	70
14 Alcohol & Tobacco products	142	5	0	821	968
15 Travel related consumer goods	0	0	0	216	216
16 Footwear	212	0	0	2751	2964
17 Soaps, cosmetics and glycerin	4	0	0	300	304
18 Gems and jewellery	18	0	0	4478	4496
19 Books, journals, magazines, stationery etc.	35	3	0	881	919
Total Expenditure	2447	82	0	47276	49804
Estimated Number of tourists 2015-16	3282	265	0	57835	61383
Per-trip Expenditure (Rs.)	74539	30766	0	81743	81137

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

TSA Table 1B: Inbound Tourism Expenditure incurred by Tourists from other states by Products and by leading purposes (Rs. 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	3487	9651	1170	18302	133	855	23	206	33827
2 Food and beverage serving services/Restaurants	5735	12695	10592	43054	2673	1689	62	133	76635
3 Railway passenger transport services	1312 3	9293	5502	35333	124	188	42	87	63692
4 Road passenger transport services	329	19315	75426	60613	2905	1609	144	438	160779
5 Water passenger transport services	0	19	0	1382	0	204	14	0	1619
6 Air passenger transport services	0	14797	0	7402	0	3577	0	0	25775
7 Transport equipment rental services	1305	4089	3383	11366	3	556	1	3	20706
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	1464	487	2299	0	214	5	0	4469
9 Cultural and religious services	0	72	9	546	1	1	2	0	632
10 Sports and other recreational services	0	64	4	6	1	1	0	0	77
11 Health and medical related services	2	323	236	776	4	1863 7	1	1	19980
A.2 Tourism connected products									
12 Readymade garments	4422	7846	29093	13757	0	194	23	4	55339
13 Processed Food	230	1157	5853	2517	4	129	14	0	9903
14 Alcohol & Tobacco products	564	448	3307	184	0	8	2	36	4549
15 Travel related consumer goods	88	642	815	1424	0	28	0	0	2997
16 Footwear	1331	935	2791	652	0	1	4	0	5714
17 Soaps, cosmetics and glycerin	86	118	132	250	3	29	0	2	619
18 Gems and jewellery	0	1170	612	1343	0	0	0	0	3126
19 Books, journals, magazines, stationery etc.	346	385	224	517	82	5	19	0	1577
Total Expenditure	31048	84484	139635	201723	5933	27926	356	909	492013
Estimated number of trips 2015-16 (,000)	382	343	1720	2241	56	45	2	39	4828
Per-trip Expenditure (Rs.)	8126	24635	8118	9000	10551	62148	17582	2345	10190

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

TSA Table 2: Domestic Tourism Expenditure incurred by Tourists from within the state of reference by Products and by leading purposes (Rs 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	444	766	669	4392	138	1243	1	149	7802
2 Food and beverage serving services/Restaurants	1355	1960	22782	8181	356	2213	11	336	37194
3 Railway passenger transport services	0	150	305	455	0	2	0	0	913
4 Road passenger transport services	6326	8422	145121	36487	2881	6819	137	2764	208956
5 Water passenger transport services	0	0	0	0	0	1	0	0	1
6 Air passenger transport services	0	0	0	0	0	0	0	0	0
7 Transport equipment rental services	45	387	3092	409	120	636	10	18	4717
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	25	513	0	0	100	0	0	638
9 Cultural and religious services	0	16	38	302	0	0	0	0	356
10 Sports and other recreational services	0	15	11	0	0	1	0	0	27
11 Health and medical related services	1	113	1109	274	0	21527	0	195	23219
A.2 Tourism connected products									
12 Readymade garments	130	3755	83256	7315	75	579	396	102	95607
13 Processed Food	71	431	11150	2810	113	359	14	166	15115
14 Alcohol & Tobacco products	914	92	2945	4	70	97	25	72	4219
15 Travel related consumer goods	0	76	511	334	0	41	3	0	965
16 Footwear	0	745	17036	5526	27	207	86	16	23643
17 Soaps, cosmetics and glycerin	18	86	1677	326	3	76	5	18	2209
18 Gems and jewellery	0	174	6460	197	0	0	719	0	7551
19 Books, journals, magazines, stationery etc.	3	158	431	718	53	3	0	1	1367
Total Expenditure	9307	17370	297107	67731	3837	33904	1408	3837	434501
Estimated number of trips 2015-16 (,000)	222	180	5808	808	95	236	6	109	7464
Per-trip Expenditure (Rs.)	4200	9634	5116	8381	4022	14366	2524 9	3508	5821

Source: NCAER computation

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

<i>Item</i>	Business	Holiday	Social	Religious	Educatio n/ training	Medical	Others	Total
A.1. Tourism characteristic products								
1. Accommodation services/Hotels	31	135	0	0	7	0	30	203
2 Food and beverage serving services/Restaurants	80	139	16	0	7	0	15	257
3 Railway passenger transport services	0	26	1	0	0	0	22	48
4 Road passenger transport services	70	66	9	0	3	0	35	183
5 Water passenger transport services	0	0	0	0	0	0	0	0
6 Air passenger transport services	0	0	0	0	0	0	30	30
7 Transport equipment rental services	0	0	0	0	0	0	0	0
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	2	0	0	0	0	0	2
9 Cultural and religious services	0	0	0	0	0	0	0	0
10 Sports and other recreational services	0	0	0	0	0	0	0	0
11 Health and medical related services	16	7	0	0	1	0	0	25
A.2 Tourism connected products								
12 Readymade garments	0	968	0	0	0	0	0	968
13 Processed Food	0	9	0	0	0	0	48	57
14 Alcohol & Tobacco products	0	14	0	0	0	0	61	75
15 Travel related consumer goods	0	0	0	0	0	0	0	0
16 Footwear	0	0	0	0	0	0	0	0
17 Soaps, cosmetics and glycerin	0	0	0	0	0	0	0	0
18 Gems and jewellery	0	58	0	0	0	0	0	58
19 Books, journals, magazines, stationery etc.	6	94	3	0	0	0	0	103
Total Expenditure	204	1518	28	0	17	0	241	2008
Estimated Number of tourists - 2015-16	6786	11746	990	0	649	0	6513	26684
Per-tourist Expenditure (Rs.)	3012	12926	2856	0	2590	0	3695	7527

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

Item	Inbound from other countries	Inbound from other states	Domestic	Outbound	Total
A.1. Tourism characteristic products					
1. Accommodation services/Hotels	9172	33827	7802	203	51005
2 Food and beverage serving services/Restaurants	4442	76635	37194	257	118528
3 Railway passenger transport services	154	63692	913	48	64808
4 Road passenger transport services	725	160779	208956	183	370642
5 Water passenger transport services	211	1619	1	0	1831
6 Air passenger transport services	6146	25775	0	30	31952
7 Transport equipment rental services	1049	20706	4717	0	26472
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	16	4469	638	2	5126
9 Cultural and religious services	5321	632	356	0	6309
10 Sports and other recreational services	90	77	27	0	193
11 Health and medical related services	2537	19980	23219	25	45760
A.2 Tourism connected products					
12 Readymade garments	10006	55339	95607	968	161920
13 Processed Food	70	9903	15115	57	25145
14 Alcohol & Tobacco products	968	4549	4219	75	9811
15 Travel related consumer goods	216	2997	965	0	4178
16 Footwear	2964	5714	23643	0	32320
17 Soaps, cosmetics and glycerin	304	619	2209	0	3132
18 Gems and jewellery	4496	3126	7551	58	15231
19 Books, journals, magazines, stationery etc.	919	1577	1367	103	3966
Total Expenditure	49804	492013	434501	2008	978327
A.3 Other imputed connected products					
21 Vacation homes (assumed to be 1% of urban owner occupied dwelling services, total Rs. 1,69,363 crore)	0	0	1667	0	1667
22 Social transfers in kind (50% of GFCE of tourism and cultural services)	0	0	3773	0	3773
23 FISIM (calculated from the share of fisim in PFCE)	0	0	51647	0	51647
24 Producers' guest houses (.5% of private corporate sector output)	0	0	111057	0	111057
25 Imputed expenditures of households on food for tourists staying with them	0	0	19058	0	19058
Total (Rs. Crore)	49804	492013	621703	2008	1165528

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				
		1	2	3	4	5
1	Agriculture and allied	2031043	0	0	0	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	26218	20675554	0	0	5189245
3	Trade	0	436750	2426734	0	0
4	Transport freight services	0	0	0	462451	0
5	All non-tourism specific services	0	31963	24948	0	5925514
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	27243	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	4288	0	0	0
18	Processed Food	0	73283	0	0	0
19	Alcohol & Tobacco products	0	2857	0	0	0
20	Travel related consumer goods	0	57902	0	0	0
21	Footwear	0	4370	0	0	0
22	Soaps, cosmetics and glycerin	0	391882	0	0	0
23	Gems and jewellery	0	1345136	0	0	0
24	Books, journals, magazines, stationery etc.	0	58016	0	0	0
	Total Value of Output (Rs. Lakh)	2057261	23082002	2451682	489694	11114759

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				
		6	7	8	9	10
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	47688	0
5	All non-tourism specific services	0	0	0	0	0
6	Accommodation services/Hotels	87942	29314	0	0	0
7	Food and beverage serving services/Restaurants	3104	546451	0	0	0
8	Railway passenger transport services	0	0	7877	0	0
9	Road passenger transport services	0	0	0	245190	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)	91046	575765	7877	292877	0

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				
		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	17210	0	0	0	0
12	Transport equipment rental services	0	504	0	0	0
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	-7	0	0
14	Cultural and religious services	0	0	0	1008	0
15	Sports and other recreational services	0	0	0	0	22024
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)	17210	504	-7	1008	22024

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				
		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	7310	11540	1836	57775
3	Trade	0	545	30163	1735	5558
4	Transport freight services	0	0	0	0	0
5	All non-tourism specific services	0	2	186	274	3787
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	222340	0	0	0	0
17	Readymade garments	0	41231	0	0	0
18	Processed Food	0	0	1382869	1782	0
19	Alcohol & Tobacco products	0	0	4452	50027	0
20	Travel related consumer goods	0	528	78	0	53091
21	Footwear	0	0	0	0	86579
22	Soaps, cosmetics and glycerin	0	0	5427	1	0
23	Gems and jewellery	0	0	0	0	212579
24	Books, journals, magazines, stationery etc.	0	0	0	0	0
	Total Value of Output (Rs. Lakh)	222340	49617	1434715	55656	419369

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				Total Domestic Supply at BP
		21	22	23	24	
1	Agriculture and allied	0	0	0	0	2031043
2	Mining, other manufacturing, construction, electricity, gas and water supply	41	377410	35885	687675	27070490
3	Trade	6	8262	2892	5704	2918349
4	Transport freight services	0	0	0	0	510138
5	All non-tourism specific services	0	286	4182	281	5991423
6	Accommodation services/Hotels	0	0	0	0	117255
7	Food and beverage serving services/Restaurants	0	0	0	0	549555
8	Railway passenger transport services	0	0	0	0	7877
9	Road passenger transport services	0	0	0	0	272433
10	Water passenger transport services	0	0	0	0	0
11	Air passenger transport services	0	0	0	0	17210
12	Transport equipment rental services	0	0	0	0	504
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	0	0	-7
14	Cultural and religious services	0	0	0	0	1008
15	Sports and other recreational services	0	0	0	0	22024
16	Health and medical related services	0	0	0	0	222340
17	Readymade garments	0	0	0	0	45519
18	Processed Food	0	8893	0	0	1466827
19	Alcohol & Tobacco products	0	347	0	0	57682
20	Travel related consumer goods	106	368	2057	927	115057
21	Footwear	179	0	0	0	91128
22	Soaps, cosmetics and glycerin	0	46242	0	0	443553
23	Gems and jewellery	0	0	235789	0	1793504
24	Books, journals, magazines, stationery etc.	0	0	0	32083	90099
	Total Value of Output (Rs. Lakh)	332	441808	280805	726670	43835013

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

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	-171376	1859667	325928	2185595
2	Mining, other manufacturing, construction, electricity, gas and water supply	1078419	28148910	2632032	30780942
3	Trade	2326	2920675	-2920675	0
4	Transport freight services	15911	526049	-526049	0
5	All non-tourism specific services	226654	6218077	0	6218077
6	Accommodation services/Hotels	630	117886	0	117886
7	Food and beverage serving services/Restaurants	2959	552514	0	552514
8	Railway passenger transport services	38	7914	0	7914
9	Road passenger transport services	3396	275829	0	275829
10	Water passenger transport services	4408	4408	0	4408
11	Air passenger transport services	1476	18686	0	18686
12	Transport equipment rental services	7	511	0	511
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	1003	996	0	996
14	Cultural and religious services	-5	1003	0	1003
15	Sports and other recreational services	16795	38818	0	38818
16	Health and medical related services	-589	221751	0	221751
17	Readymade garments	12956	58476	5728	64203
18	Processed Food	46625	1513452	321860	1835312
19	Alcohol & Tobacco products	80647	138329	15695	154024
20	Travel related consumer goods	4636	119693	15876	135569
21	Footwear	3005	94133	10611	104744
22	Soaps, cosmetics and glycerin	17801	461354	55607	516960
23	Gems and jewellery	8659	1802163	51952	1854115
24	Books, journals, magazines, stationery etc.	419	90518	11436	101954
	Total Value of Output (Rs. Lakh)	1356799	45191812	0	45191812

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				
		1	2	3	4	5
1	Agriculture and allied	203164	462208	0	7631	185628
2	Mining, other manufacturing, construction, electricity, gas and water supply	104896	15458506	378198	172386	3611578
3	Trade	0	0	0	0	0
4	Transport freight services	0	0	0	0	0
5	All non-tourism specific services	31993	358306	153144	75332	1364654
6	Accommodation services/Hotels	340	94	8120	939	19120
7	Food and beverage serving services/Restaurants	1355	441	38114	4407	89747
8	Railway passenger transport services	0	3017	575	6	2712
9	Road passenger transport services	20721	23462	40220	2	45923
10	Water passenger transport services	0	0	1012	1	4853
11	Air passenger transport services	0	6325	5233	58	42075
12	Transport equipment rental services	4	3284	170	47	973
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	8290	228	5960
14	Cultural and religious services	0	0	0	0	9
15	Sports and other recreational services	526	427	926	118	3323
16	Health and medical related services	1	0	0	0	352
17	Readymade garments	995	3339	2272	2489	23292
18	Processed Food	61269	28300	172	0	76360
19	Alcohol & Tobacco products	0	3683	0	0	2820
20	Travel related consumer goods	643	18390	1238	356	11473
21	Footwear	0	0	0	0	171
22	Soaps, cosmetics and glycerin	0	20983	1612	0	288
23	Gems and jewellery	0	765736	0	0	0
24	Books, journals, magazines, stationery etc.	2973	7134	1318	1743	17670
	Total IIUSE at PP	428880	17163633	640615	265744	5508981
	Output at BP	2057261	23082002	2451682	489694	11114759
	GVA	1628380	5918369	1811067	223950	5605778

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				
		6	7	8	9	10
1	Agriculture and allied	29466	186340	0	4897	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	5573	35244	1961	105024	0
3	Trade	0	0	0	0	0
4	Transport freight services	0	0	0	0	0
5	All non-tourism specific services	2755	17422	434	47016	0
6	Accommodation services/Hotels	9	56	10	573	0
7	Food and beverage serving services/Restaurants	42	264	48	2690	0
8	Railway passenger transport services	1	5	0	4	0
9	Road passenger transport services	33	210	0	1	0
10	Water passenger transport services	0	1	0	1	0
11	Air passenger transport services	8	52	0	35	0
12	Transport equipment rental services	0	2	0	30	0
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	36	231	0	147	0
14	Cultural and religious services	0	1	0	0	0
15	Sports and other recreational services	155	978	15	34	0
16	Health and medical related services	0	0	0	0	0
17	Readymade garments	70	445	83	1349	0
18	Processed Food	19368	122483	0	0	0
19	Alcohol & Tobacco products	1814	11472	0	0	0
20	Travel related consumer goods	8	51	9	204	0
21	Footwear	0	0	0	0	0
22	Soaps, cosmetics and glycerin	635	4015	0	0	0
23	Gems and jewellery	0	0	0	0	0
24	Books, journals, magazines, stationery etc.	4	24	97	839	0
	Total IIUSE at PP	59978	379296	2657	162843	0
	Output at BP	91046	575765	7877	292877	0
	GVA	31068	196469	5219	130034	0

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				
		11	12	13	14	15
1	Agriculture and allied	0	0	0	0	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	8567	90	-2	287	1767
3	Trade	0	0	0	0	0
4	Transport freight services	0	0	0	0	0
5	All non-tourism specific services	3290	49	-1	31	6959
6	Accommodation services/Hotels	52	0	0	1	11
7	Food and beverage serving services/Restaurants	244	1	0	5	52
8	Railway passenger transport services	1	0	0	1	28
9	Road passenger transport services	0	5	0	2	234
10	Water passenger transport services	0	0	0	0	6
11	Air passenger transport services	13	0	0	2	39
12	Transport equipment rental services	1	0	0	0	5
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	5	0	2	49
14	Cultural and religious services	0	0	0	0	1
15	Sports and other recreational services	37	3	0	1	236
16	Health and medical related services	0	0	0	0	3
17	Readymade garments	548	3	0	7	59
18	Processed Food	0	0	0	0	0
19	Alcohol & Tobacco products	0	0	0	0	0
20	Travel related consumer goods	46	1	0	4	17
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.	453	3	0	2	59
	Total IIUSE at PP	13253	160	-4	345	9525
	Output at BP	17210	504	-7	1008	22024
	GVA	3957	344	-3	663	12498

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	Industry as per the Serial No. given in first column				
		16	17	18	19	20
1	Agriculture and allied	0	0	1091206	33235	99715
2	Mining, other manufacturing, construction, electricity, gas and water supply	74859	29529	17333	2155	67412
3	Trade	0	0	0	0	0
4	Transport freight services	0	0	0	0	0
5	All non-tourism specific services	7846	920	2902	116	1391
6	Accommodation services/Hotels	22	0	0	0	0
7	Food and beverage serving services/Restaurants	103	0	0	0	0
8	Railway passenger transport services	0	22	63	3	37
9	Road passenger transport services	26	128	311	8	163
10	Water passenger transport services	16	0	0	0	0
11	Air passenger transport services	572	0	0	0	0
12	Transport equipment rental services	0	7	25	0	21
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	2	0	0	0	0
14	Cultural and religious services	0	0	0	0	0
15	Sports and other recreational services	118	0	0	0	0
16	Health and medical related services	724	0	0	0	0
17	Readymade garments	343	384	0	0	72
18	Processed Food	0	0	62617	839	0
19	Alcohol & Tobacco products	0	0	134	424	0
20	Travel related consumer goods	7	2262	22	1	4731
21	Footwear	0	0	0	0	212
22	Soaps, cosmetics and glycerin	0	10	0	0	0
23	Gems and jewellery	0	1	0	0	172522
24	Books, journals, magazines, stationery etc.	121	51	5	2	5
	Total IIUSE at PP	84759	33313	1174618	36784	346281
	Output at BP	222340	49617	1434715	55656	419369
	GVA	137582	16304	260097	18871	73088

Source: NCAER computation

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

S. No.	Industry	Industry as per the Serial No. given in first column			
		21	22	23	24
1	Agriculture and allied	205	10611	6	73337
2	Mining, other manufacturing, construction, electricity, gas and water supply	18	325621	61202	472661
3	Trade	0	0	0	0
4	Transport freight services	0	0	0	0
5	All non-tourism specific services	1	4384	632	14308
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	54	2	264
9	Road passenger transport services	0	240	5	997
10	Water passenger transport services	0	0	0	0
11	Air passenger transport services	0	0	0	0
12	Transport equipment rental services	0	21	1	84
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	2008	0	0
19	Alcohol & Tobacco products	0	216	0	0
20	Travel related consumer goods	9	28	309	204
21	Footwear	0	0	0	0
22	Soaps, cosmetics and glycerin	0	2443	0	0
23	Gems and jewellery	0	0	191359	0
24	Books, journals, magazines, stationery etc.	0	49	0	2549
	Total IIUSE at PP	235	345681	253516	564417
	Output at BP	332	441808	280805	726670
	GVA	97	96127	27288	162253

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

S. No.	Industry	IIUSE	TFUSE	Total Use
1	Agriculture and allied	2387648	-202054	2185595
2	Mining, other manufacturing, construction, electricity, gas and water supply	20934867	9846074	30780942
3	Trade	0	0	0
4	Transport freight services	0	0	0
5	All non-tourism specific services	2093880	4124197	6218077
6	Accommodation services/Hotels	29348	88537	117886
7	Food and beverage serving services/Restaurants	137512	415002	552514
8	Railway passenger transport services	6794	1121	7914
9	Road passenger transport services	132692	143137	275829
10	Water passenger transport services	5892	-1483	4408
11	Air passenger transport services	54414	-35728	18686
12	Transport equipment rental services	4676	-4164	511
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	14951	-13955	996
14	Cultural and religious services	11	992	1003
15	Sports and other recreational services	6901	31917	38818
16	Health and medical related services	1080	220671	221751
17	Readymade garments	35764	28440	64203
18	Processed Food	373417	1461895	1835312
19	Alcohol & Tobacco products	20563	133460	154024
20	Travel related consumer goods	40012	95557	135569
21	Footwear	383	104361	104744
22	Soaps, cosmetics and glycerin	29986	486974	516960
23	Gems and jewellery	1129618	724496	1854115
24	Books, journals, magazines, stationery etc.	35101	66853	101954
	Total IIUSE at PP	27475511	17716301	45191812
	Output at BP	43835013		
	GVA	16359502		

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh) (Cont.)

S. No.	Industry	Industry as per the Serial No. given in first column					
		1	TS*	2	TS*	3	TS*
1	Agriculture and allied	2031043	0	0	0	0	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	26218	0	20675554	0	0	0
3	Trade	0	0	436750	0	2426734	1021
4	Transport freight services	0	0	0	0	0	0
5	All non-tourism specific services	0	0	31963	1286	24948	1004
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	4288	0	0	0
18	Processed Food	0	0	73283	0	0	0
19	Alcohol & Tobacco products	0	0	2857	0	0	0
20	Travel related consumer goods	0	0	57902	0	0	0
21	Footwear	0	0	4370	0	0	0
22	Soaps, cosmetics and glycerin	0	0	391882	0	0	0
23	Gems and jewellery	0	0	1345136	0	0	0
24	Books, journals, magazines, stationery etc.	0	0	58016	0	0	0
	Total Value of Output (Rs. Lakh)	2057261	0	23082002	1286	2451682	2025
	Intermediate consumption (Rs. Lakh)	428880	0	17163633	957	640615	529
	GVA (Rs. Lakh)	1628380	0	5918369	330	1811067	1496
	Tourism Industry Ratios (%)		0		0		0

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(Cont.)**

S. No.	Industry	Industry as per the Serial No. given in first column					
		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	5189245	0	0	0
3	Trade	0	0	0	0	0	0
4	Transport freight services	462451	0	0	0	0	0
5	All non-tourism specific services	0	0	5925514	238494	0	0
6	Accommodation services/Hotels	0	0	0	0	87942	63318
7	Food and beverage serving services/Restaurants	0	0	0	0	3104	1653
8	Railway passenger transport services	0	0	0	0	0	0
9	Road passenger transport services	27243	17065	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)	489694	17065	11114759	238494	91046	64971
	Intermediate consumption (Rs. Lakh)	265744	9261	5508981	118209	59978	42801
	GVA (Rs. Lakh)	223950	7804	5605778	120286	31068	22170
	Tourism Industry Ratios (%)		3		2		71

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(Cont.)**

S. No.	Industry	Industry as per the Serial No. given in first column					
		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	47688	0
5	All non-tourism specific services	0	0	0	0	0	0
6	Accommodation services/Hotels	29314	21106	0	0	0	0
7	Food and beverage serving services/Restaurants	546451	291021	0	0	0	0
8	Railway passenger transport services	0	0	7877	5498	0	0
9	Road passenger transport services	0	0	0	0	245190	153585
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)	575765	312127	7877	5498	292877	153585
	Intermediate consumption (Rs. Lakh)	379296	205619	2657	1855	162843	85395
	GVA (Rs. Lakh)	196469	106508	5219	3643	130034	68190
	Tourism Industry Ratios (%)		54		70		52

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(Cont.)**

S. No.	Industry	Industry as per the Serial No. given in first column					
		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	17210	13957	0	0
12	Transport equipment rental services	0	0	0	0	504	192
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	17210	13957	504	192
	Intermediate consumption (Rs. Lakh)	0	0	13253	10748	160	61
	GVA (Rs. Lakh)	0	0	3957	3209	344	131
	Tourism Industry Ratios (%)		0		81		38

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(Cont.)**

S. No.	Industry	Industry as per the Serial No. given in first column					
		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	-7	-4	0	0	0	0
14	Cultural and religious services	0	0	1008	203	0	0
15	Sports and other recreational services	0	0	0	0	22024	98
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)	-7	-4	1008	203	22024	98
	Intermediate consumption (Rs. Lakh)	-4	-2	345	69	9525	42
	GVA (Rs. Lakh)	-3	-2	663	133	12498	55
	Tourism Industry Ratios (%)		51		20		0

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(Cont.)**

S. No.	Industry	Industry as per the Serial No. given in first column					
		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	0	7310	0	11540	0
3	Trade	0	0	545	0	30163	0
4	Transport freight services	0	0	0	0	0	0
5	All non-tourism specific services	0	0	2	0	186	7
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	222340	65777	0	0	0	0
17	Readymade garments	0	0	41231	0	0	0
18	Processed Food	0	0	0	0	1382869	0
19	Alcohol & Tobacco products	0	0	0	0	4452	0
20	Travel related consumer goods	0	0	528	0	78	0
21	Footwear	0	0	0	0	0	0
22	Soaps, cosmetics and glycerin	0	0	0	0	5427	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)	222340	65777	49617	0	1434715	7
	Intermediate consumption (Rs. Lakh)	84759	25075	33313	0	1174618	6
	GVA (Rs. Lakh)	137582	40702	16304	0	260097	1
	Tourism Industry Ratios (%)		30		0		0

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(Cont.)**

S. No.	Industry	Industry as per the Serial No. given in first column					
		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	1836	0	57775	0	41	0
3	Trade	1735	0	5558	0	6	0
4	Transport freight services	0	0	0	0	0	0
5	All non-tourism specific services	274	11	3787	152	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	1782	0	0	0	0	0
19	Alcohol & Tobacco products	50027	0	0	0	0	0
20	Travel related consumer goods	0	0	53091	0	106	0
21	Footwear	0	0	86579	0	179	0
22	Soaps, cosmetics and glycerin	1	0	0	0	0	0
23	Gems and jewellery	0	0	212579	0	0	0
24	Books, journals, magazines, stationery etc.	0	0	0	0	0	0
	Total Value of Output (Rs. Lakh)	55656	11	419369	152	332	0
	Intermediate consumption (Rs. Lakh)	36784	7	346281	126	235	0
	GVA (Rs. Lakh)	18871	4	73088	27	97	0
	Tourism Industry Ratios (%)		0		0		0

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(Cont.)**

S. No.	Industry	Industry as per the Serial No. given in first column					
		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	377410	0	35885	0	687675	0
3	Trade	8262	0	2892	0	5704	0
4	Transport freight services	0	0	0	0	0	0
5	All non-tourism specific services	286	12	4182	168	281	11
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	8893	0	0	0	0	0
19	Alcohol & Tobacco products	347	0	0	0	0	0
20	Travel related consumer goods	368	0	2057	0	927	0
21	Footwear	0	0	0	0	0	0
22	Soaps, cosmetics and glycerin	46242	0	0	0	0	0
23	Gems and jewellery	0	0	235789	0	0	0
24	Books, journals, magazines, stationery etc.	0	0	0	0	32083	0
	Total Value of Output (Rs. Lakh)	441808	12	280805	168	726670	11
	Intermediate consumption (Rs. Lakh)	345681	9	253516	152	564417	9
	GVA (Rs. Lakh)	96127	3	27288	16	162253	3
	Tourism Industry Ratios (%)		0		0		0

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(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	2031043	0	-171376	0	1859667	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	27070490	0	1078419	0	28148910	0
3	Trade	2918349	1021	2326	0	2920675	1021
4	Transport freight services	510138	0	15911	0	526049	0
5	All non-tourism specific services	5991423	241147	226654	9123	6218077	250270
6	Accommodation services/Hotels	117255	84424	630	454	117886	84878
7	Food and beverage serving services/Restaurants	549555	292674	2959	1576	552514	294250
8	Railway passenger transport services	7877	5498	38	26	7914	5525
9	Road passenger transport services	272433	170650	3396	2127	275829	172777
10	Water passenger transport services	0	0	4408	1632	4408	1632
11	Air passenger transport services	17210	13957	1476	1197	18686	15154
12	Transport equipment rental services	504	192	7	3	511	194
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	-7	-4	1003	514	996	511
14	Cultural and religious services	1008	203	-5	-1	1003	202
15	Sports and other recreational services	22024	98	16795	75	38818	172
16	Health and medical related services	222340	65777	-589	-174	221751	65603
17	Readymade garments	45519	0	12956	4599	58476	4599
18	Processed Food	1466827	0	46625	569	1513452	569
19	Alcohol & Tobacco products	57682	0	80647	4578	138329	4578
20	Travel related consumer goods	115057	0	4636	127	119693	127
21	Footwear	91128	0	3005	827	94133	827
22	Soaps, cosmetics and glycerin	443553	0	17801	96	461354	96
23	Gems and jewellery	1793504	0	8659	63	1802163	63
24	Books, journals, magazines, stationery etc.	90099	0	419	15	90518	15
	Total Value of Output (Rs. Lakh)	43835013	875637	1356799	27424	45191812	903061
	Intermediate consumption (Rs. Lakh)	27475511	500928				
	GVA (Rs. Lakh)	16359502	374709				
	Tourism Industry Ratios (%)		2				

Note - TS* (Tourism share)

Source: NCAER Computations

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**TSA Table 6: Total Supply and Internal Tourism Consumption –Uttarakhand (Rs. Lakh)
(Cont.)**

S. No.	Industry	Trade and Transport Margins (TTM)	Tourism share	Output at Purchaser's price (OP + TTM)	Tourism share
1	Agriculture and allied	325928	0	2185595	0
2	Mining, other manufacturing, construction, electricity, gas and water supply	2632032	0	30780942	0
3	Trade	-2920675	-1021	0	0
4	Transport freight services	-526049	0	0	0
5	All non-tourism specific services	0	0	6218077	250270
6	Accommodation services/Hotels	0	0	117886	84878
7	Food and beverage serving services/Restaurants	0	0	552514	294250
8	Railway passenger transport services	0	0	7914	5525
9	Road passenger transport services	0	0	275829	172777
10	Water passenger transport services	0	0	4408	1632
11	Air passenger transport services	0	0	18686	15154
12	Transport equipment rental services	0	0	511	194
13	Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	0	996	511
14	Cultural and religious services	0	0	1003	202
15	Sports and other recreational services	0	0	38818	172
16	Health and medical related services	0	0	221751	65603
17	Readymade garments	5728	136	64203	4736
18	Processed Food	321860	278	1835312	847
19	Alcohol & Tobacco products	15695	113	154024	4691
20	Travel related consumer goods	15876	44	135569	171
21	Footwear	10611	269	104744	1095
22	Soaps, cosmetics and glycerin	55607	60	516960	156
23	Gems and jewellery	51952	22	1854115	86
24	Books, journals, magazines, stationery etc.	11436	99	101954	113
	Total Value of Output (Rs. Lakh)	0	0	45191812	903061
	Intermediate consumption (Rs. Lakh)				
	GVA (Rs. Lakh)				
	Tourism Industry Ratios (%)				

Note - TS* (Tourism share)

Source: NCAER Computations

TSA Table 7: Employment in Tourism industries (Number of jobs)

	Number of jobs		
	Self Employed	Employees	Total
1. Accommodation services/Hotels	20271	11673	31944
2 Food and beverage serving services/Restaurants	29445	95753	125198
3 Railway passenger transport services	1110	6884	7993
4 Road passenger transport services	49094	47760	96854
5 Water passenger transport services	0	0	0
6 Air passenger transport services	0	0	0
7 Transport equipment rental services	0	4781	4781
8 Travel agencies and other reservation services/ Supporting and auxiliary transport activities	0	2661	2661
9 Cultural and religious services	35568	955	36523
10 Sports and other recreational services	61	0	61
11 Health and medical related services	15505	62462	77968
Total jobs in tourism characteristic industries	151054	232928	383983
Total Jobs in the state	2366430	2437049	4803479
Share of Tourism in total	6.38	9.56	7.99

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

TSA Table 10.1: State-wise Eestimated number of households and persons

States	Households			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

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

**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	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			

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

States	Trips per 100 Households			Rank among 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			

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

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

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

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

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

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

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

States	Business	Social	Religious	Education	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
Telangana	-	-	-	-	-	-
Total	2.2	85.9	8.3	1.1	2.5	100.0

Source: NCAER computation

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

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

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

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

States	January	February	March	April	May	June	July	August	September	October	November	December	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	5.7	7.7	100.0
Total	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

Source: NCAER computation

VI. SUMMARY AND FINDINGS

This report provides various tourism statistics and economic aggregates, obtained in the compilation of Tourism Satellite Account for Uttarakhand. 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 61,383 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. These were 48.28 lakh in number.
- Domestic or intrastate trips stood at 74.64 lakh. This is just 0.62 percent of the country's total domestic trips⁵.
- Total Internal Tourism expenditure incurred by all inbound, domestic and outbound tourists, amounted to Rs. 9783.26 crore during 2015-16. Imputed Tourism consumption stood at Rs. 1872.02 crore. Together, these constitute the Total Internal Tourism Consumption and is estimated at Rs. 11655.28 crore.
- The state's share in All-India's Total Internal Tourism Consumption is 1.22 percent.
- The state's employment, in terms of number of jobs, is estimated at 48.03 lakh. The number of jobs in tourism characteristic industries, referred to as tourism employment, is 3.84 lakh. The direct share of tourism in employment, hence, is 7.99 percent.
- Total GVA of the state was Rs. 1.64 lakh crore in 2015-16. Tourism Direct GVA (TDGVA) is estimated at Rs. 3747.09 crore for the same year. The state's share in All-India GVA is 0.31 percent while the same in All-India TDGVA is 1.08 percent.

⁵ 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.

Table VI.1: Key Tourism Statistics

Estimated number of Tourists/Trips			
	State (Number)	All India (Number)	Share in All-India
Inbound tourists - international	61383	13522814	0.45
Inbound trips - other states	4828187	-	0
Domestic trips	7463963	1201955810	0.62
Outbound tourists	26684	20291635	0.13
Estimated Tourism Consumption			
	State (Rs. Lakh)	All India (Rs. Crore)	Share in All-India
Inbound	541817	235331	2.30
- international	49804	235331	0.21
- other states	492013	0	0
Domestic	434501	553193	0.79
Outbound	2008	24575	0.08
Imputed	187202	141280	1.33
Total Internal	1165528	954379	1.22
Employment - Number of jobs			
	State (lakh numbers)	All India (lakh numbers)	Share in All-India
Total Employment (in lakh)	48.03	5838.45	0.82
Tourism Characteristic Industries	3.84	315.10	1.22
Gross Value Added			
	State (Rs. Lakh)	All India (Rs. Lakh)	Share in All-India
Gross Value Added (GVA) at basic prices	16359502	1245864229	1.31
Tourism Characteristic Industries (GVATI) (1)	517832	59857757	0.87
Tourism Connected Industries (2)	654125	34559289	1.89
Tourism Specific Industries (1+2)	1171957	94417045	1.24
Tourism Direct GVA	374709	34649328	1.08

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.

India: Regional Tourism Satellite Accounts, 2015-16, Uttarakhand

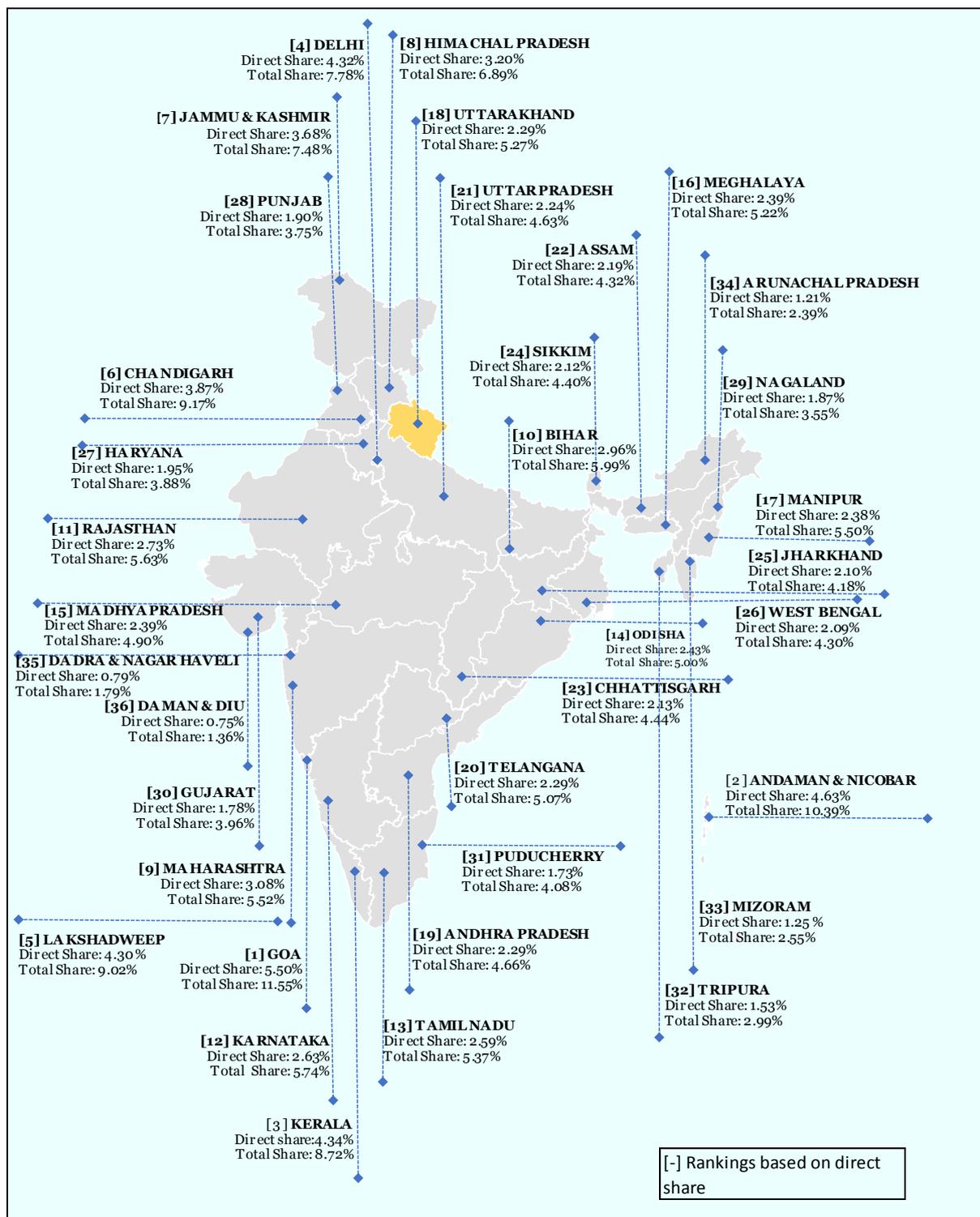
- Tourism's direct share in employment, in terms of number of jobs, is also higher than the All-India share. It is estimated at 7.99 percent for the state, compared with 5.40 percent for the country.
- The GVA multiplier, derived using the input-output model based on commodity X commodity IO matrix, is 2.2992.
- The employment multiplier, derived using the input-output model based on industry X industry IO matrix, is 2.6500.
- 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 7.28 percent and 21.18 percent respectively.
- Table VI.2 presents these shares for state of reference and for All-India.

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

Item	Uttarakhand	All India
Tourism Direct GVA, TDGVA	2.29	2.78
GVATI	3.17	4.80
Tourism Employment	7.99	5.40
GVA multiplier	2.2992	1.9236
Employment multipliers	2.6500	2.2931
TDGVA - direct and indirect	5.27	5.35
GVATI-direct and indirect	7.28	9.24
Tourism Employment - direct and indirect	21.18	12.38

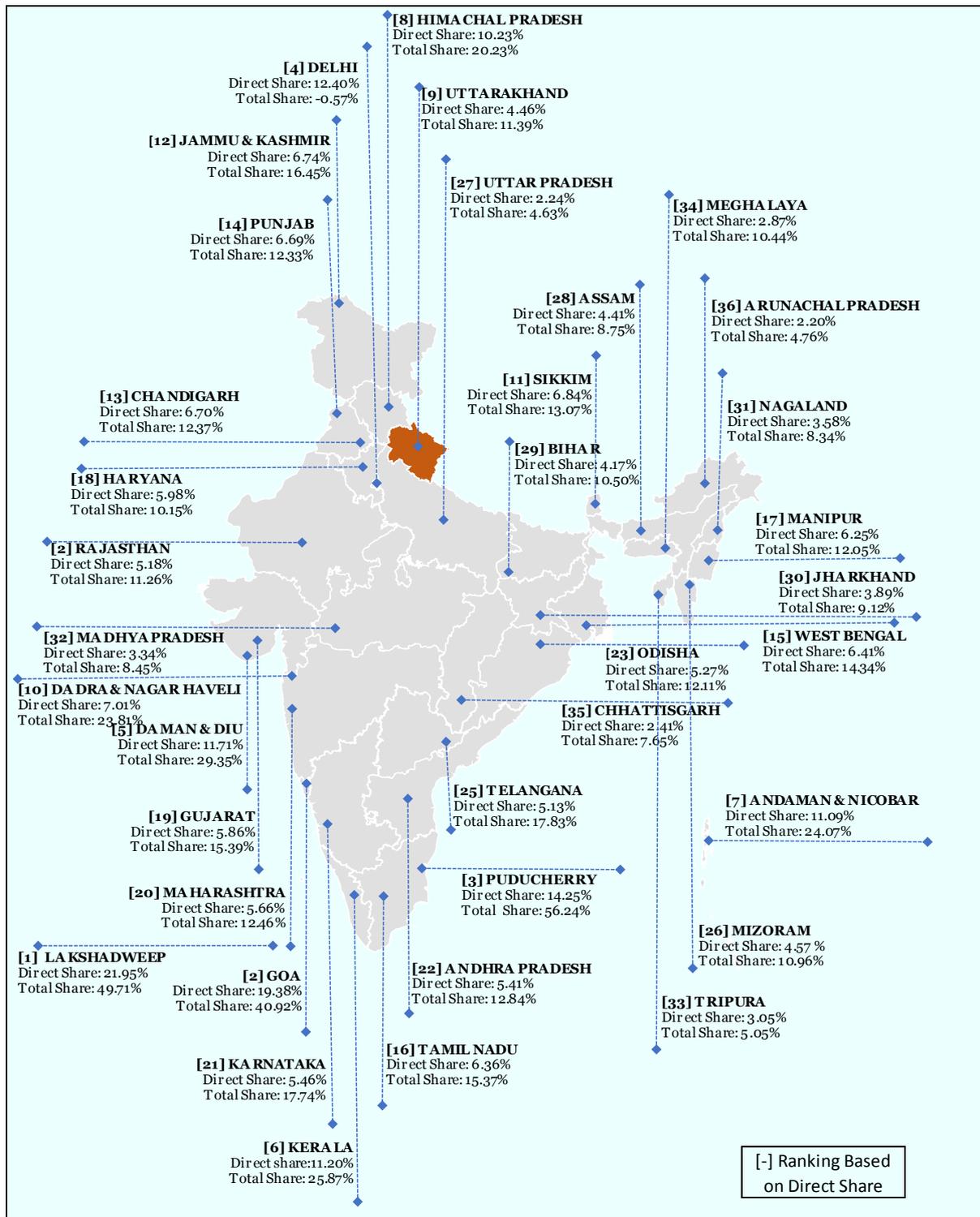
The maps below present the direct and indirect shares of tourism in GVA (Map 1) and employment (Map 2) for all the states and UTs of India, along with the states' rank on direct shares.

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 11th to 17th 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 e-mail. 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-away 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 sub-national 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

Direct Tourism Gross Domestic

Product

normal accidental damage.

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 enterprises.

Domestic Tourism

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

<i>Domestic Travellers</i>	<p>domestic travel.</p> <p>Those who undertake domestic travel are domestic travellers.</p>
<i>Domestic Trip</i>	<p>A domestic trip is one with a main destination within the country of residence of the visitor.</p>
<i>Domestic Visitor</i>	<p>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.</p> <p>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.</p>
<i>Durable Consumer Goods</i>	<p>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.</p>
<i>Economic Activity</i>	<p>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.</p>
<i>Employed Persons</i>	<p>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</p>

Employed Persons

functions or other contingencies necessitating temporary absence from work.

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

Final Output

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.

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

General Government

and insurance charges, between the customs frontier of the exporting (importing) country and that of the importing (exporting) country.

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 subsidies 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

Gross Margin

as subsoil assets or major improvements in the quantity, quality or productivity of land) realised by the productive activity of institutional units.

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

Imports of Goods And Services

services; and government services n.i.e.

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

International Tourism Consumption

inbound tourism trips.

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

Margin (Trade)

producer in the delivery of a good.

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

Other taxes on production and Taxes less subsidies on production and imports.

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 (Σ_i) from

Principal Activity

Leontief inverse matrix (Lij).

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

Purchaser's Price

various purposes: as inputs in the production of other goods and services, as final consumption or for investment.

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

Supply Table

purchasers' prices, trade and transport margins and net taxes on products are also added.

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

Taxes on Products

compensation of employees paid.

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

Defined as 'taxes on products' plus 'other taxes on

Production and Imports

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

Tourism Connected Products

included in the calculation of direct tourism gross value added and direct tourism GDP.

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

	<p>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.</p>
<i>Tourism Exports</i>	<p>Tourism exports are domestically produced goods and services consumed by international visitors to the country.</p>
<i>Tourism Industry Ratio</i>	<p>This is the proportion of the total value added of an industry which is related to tourism.</p>
<i>Total Tourism Internal Demand</i>	<p>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.</p>
<i>Tourism Imports</i>	<p>Tourism imports are consumption of overseas produced goods and services by residents on overseas trips.</p>
<i>Tourism Net Taxes on Products</i>	<p>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.</p>
<i>Tourism Product Ratio</i>	<p>This is the proportion of the total supply of a product which is consumed by visitors.</p>
<i>Tourism Ratio</i>	<p>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.</p>
<i>Tourism Share</i>	<p>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.</p>
<i>Tourism Single Purpose</i>	<p>Tourism single-purpose consumer durables are a</p>

**Consumer
Durable Goods**

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

Traveller

heading "transportation", but all movements within the country, including cruises, are entered under "travel".

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

The compilation of the following aggregates, which represent a set of relevant indicators of the size of tourism in an economy is recommended:

- Internal tourism expenditure;
- Internal tourism consumption;
- Gross value added of the tourism industries (GVATI);
- Tourism direct gross value added (TDGVA);
- Tourism direct gross domestic product (TDGDP)

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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