



PARVAT-MANTHAN
Manifestation of Clean and Sustainable Hill States

Rapid Assessment of **WATER AND SANITATION IN HILL STATES**



Title

Rapid Assessment of Water and Sanitation in Hill States

Publisher

National Institute of Urban Affairs, New Delhi

Research Project

Sanitation Capacity Building Platform (SCBP)

Authors

National Institute of Urban Affairs (NIUA)

Shantanu Kumar Padhi, Amita Pathria, Laila Khan Khongthaw and Dr Mahreen Matto

Ecosan Services Foundation (ESF)

Radhika Boargaonkar, Dhawal Patil and Saurabh Kale

Bremen Overseas Research and Development Association- South Asia (BORDA-SA)

Snehit Prakash, Jeevan Roy and Anju Varghese

Mentor

Hitesh Vaidya, Director, National Institute of Urban Affairs

Stanzin Tsephel, Regional Director, BORDA-SA

Tikender Panwar, Former Deputy Mayor of Shimla

Graphic Design

Design Team, NIUA

Copyright © NIUA (2023)

Year of Publishing: 2023

DISCLAIMER

While every effort has been made to ensure the correctness of data/information used in this research report, neither the authors nor NIUA accept any legal liability for the accuracy or inferences drawn from the material contained therein or for any consequences arising from the use of this material. No part of this report may be reproduced in any form (electronic or mechanical) without proper acknowledgement.

Copyright 2023 National Institute of Urban Affairs. This work is licensed under Attribution-ShareAlike 4.0 International. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/>

CONTACT

National Institute of Urban Affairs

1st and 2nd floor Core 4B,

India Habitat Centre,

Lodhi Road, New Delhi 110003, India

Website: www.niua.org, scbp.niua.org

E-Mail: scbp@niua.org



PARVAT-MANTHAN
Manifestation of Clean and Sustainable Hill States

Rapid Assessment of **WATER AND SANITATION IN HILL STATES**



Contents

ACKNOWLEDGEMENT	I
ABBREVIATIONS	III
LIST OF FIGURES	V
LIST OF TABLES	V
ACKNOWLEDGEMENT	V
GLOSSARY	VII
EXECUTIVE SUMMARY	1
1. ABOUT INDIAN HIMALAYAN REGION	5
2. KEY FACTS AND FIGURES	10
3. STATE-WISE RAPID ASSESSMENT	12
Arunachal Pradesh	13
Asaam	21
Himachal Pradesh	29
Jammu & Kashmir	37
Ladakh	45
Manipur	49
Meghalaya	57
Mizoram	65
Nagaland	73
Sikkim	81
Tripura	89
Uttarakhand	97
4. WAY FORWARD	105
5. ANNEXURE: STATUS REPORT	106

Acknowledgement

We would like to express our sincere gratitude and appreciation to all individuals and organizations who have contributed to the development of this report on the 'Rapid Assessment of Water and Sanitation in the Hill States'. Your valuable insights, expertise, and support have been instrumental in shaping the content and ensuring its quality.

First and foremost, we extend our heartfelt thanks to Bill and Melinda Gates Foundation for their funding and support, without which this initiative would not have been possible. Their commitment to improving the management of faecal sludge from onsite sanitation systems—including safe containment, collection, transport to treatment, and safe disposal or reuse of waste- which also aims for sanitation services to be equitable, serve the needs of the urban poor and women, and support citywide inclusive sanitation systems. This has made a significant impact in advancing our understanding and addressing the challenges related to Water and Sanitation in the Hills.

We would also like to express our deep appreciation to the team of researchers, analysts, and experts of the SCBP, Ecosan Services Foundations and BORDA-SA who worked tirelessly to gather, analyze, and interpret the data and information presented in this report. Your dedication and professionalism have been invaluable in producing accurate and reliable insights. We extend our heartfelt gratitude to the Design team for their outstanding work in producing this report with an appealing design that effectively communicates its content.

Furthermore, we are grateful to especially, Smt Roopa Mishra, Joint Secretary, Swachh Bharat Mission, Ministry of Housing and Urban Affairs, Shri Deepak Sanan, Former IAS and all the eminent participants of the Consultation Meetings held in Leh, Ladakh and Gangtok, Sikkim in the year 2022 and Secretaries of the Urban Development Directorates of 10 States and 2 Union Territories who generously shared their knowledge, experiences, and perspectives during interviews, workshops, and consultations. Your valuable input has enriched the report and provided real-world insights that will contribute to meaningful change in the field of Water and Sanitation in the Hill States.

We would also like to acknowledge the support and guidance received from Mr Hitesh Vaidya and Dr Mahreen Matto. Their expertise and constructive feedback have helped shape the report and ensure its relevance and rigour. Your collective efforts have made a significant contribution to advancing knowledge, fostering dialogue, and driving positive change in the realm of Water and Sanitation in Hills.

Abbreviations

ABR	Anaerobic Baffled Reactor
ADB	Asian Development Bank
AMRUT	Atal Mission for Rejuvenation and Urban Transformation
Capex	Capital Expenditure
C&D	Construction and Demolition
CPCB	Central Pollution Control Board
CPHEEO	Central Public Health and Environmental Engineering Organization
CSP	City Sanitation Plan
CWIS	City Wide Inclusive Sanitation
DPR	Detailed Project Report
FSS	Faecal sludge and septage
GoI	Government of India
IHR	Indian Himalayan Region
IHHL	Individual Household Latrine
IPCC	Intergovernmental Panel on Climate Change
KLD	Kilo Liters per Day
MOHUA	Ministry of Housing and Urban Affairs
MoJS	Ministry of Jal Shakti
MLD	Million Liters per Day
MRF	Material Recovery Facility
NGO	Non-Governmental Organizations
NITI Aayog	National Institution for Transforming India
NIUA	National Institute of Urban Affairs
O&M	Operation and Maintenance
ODF	Open Defecation Free
Opex	Operating Expenditure
OSS	On-Site Sanitation
PPE	Personal Protective Equipment
SBM	Swachh Bharat Mission
SDG	Sustainable Development Goals
SHG	Self Help Group
STPs	Sewage Treatment Plants
SWM	Solid Waste Management
ULBS	Urban Local Bodies
WHO	World Health Organization

List of Figures

Figure 1	:	Indian Himalayan Ranges and Rivers	5
Figure 2	:	Indus river flowing towards Kargil from Leh	6
Figure 3	:	Lush green forest of great Himalayas, Kullu, Himachal Pradesh	7
Figure 4	:	Hampta Pass, a popular trek route taken by tourist; connects Kullu to Lahaul	7
Figure 5	:	View of Tehri hydro power dam, Uttarakhand	8
Figure 6	:	View of Kargil town valley located at an elevation of 8,780 ft	9
Figure 7	:	Map of north and north eastern states of India selected for rapid assessment	12

List of Tables

Table 1	:	Profile of hill states	106
Table 2	:	Climatic conditions in the hill states	107
Table 3	:	Population growth rate from 2001 to 2011 in the hill states	107
Table 4	:	Population density of the hill states	108
Table 5	:	Sex ratio of the hill states	109
Table 6	:	Details of working demography in the Hill states	109
Table 7	:	Female working population in the states in IHR	110
Table 8	:	Class wise number of towns in the hill states in India	110
Table 9	:	Number of ULBs in the states of Indian Himalayan Region	111
Table 10	:	Population density in the ULBs of hill states in India	111
Table 11	:	Forest cover in the states in IHR	112
Table 12	:	Land use details in the hill states in India	112
Table 13	:	Percent of households having access to different source of water in hill states	113
Table 14	:	Percent of households having different proximity to the source of water in hill states	113
Table 15	:	Access to toilet in the hill states in India	114
Table 16	:	Details of access of collection and conveyance in the Hill states	115
Table 17	:	Inventory of the stps in the states in IHR	115
Table 18	:	Details of the installed stps in the hill states in India	116
Table 19	:	Garbage free cities in the states in IHR	117
Table 20	:	Details of door-to-door collection of solid waste in the hill states of India	117
Table 21	:	Details of waste processing infrastructure in the hill states in India	118
Table 22	:	Details of disposal mechanism of solid waste in the states in Indian himalayan region	118
Table 23	:	Details of Municipal Revenues and Property Tax (F.Y. 2017-18) of ULBs in the Hill states	119
Table 24	:	Details of Municipal Revenue (F.Y. 2017-18) of different types of ULBs in the hill states	119
Table 25	:	Details of municipal expenditure (F.Y. 2017-18) in the states in IHR	120

Glossary

Circular Economy - is a model of production and consumption, which involves sharing, leasing, reusing, repairing, refurbishing and recycling existing materials and products as long as possible.

- *European Parliament, 2023*

Climate Change - Climate change refers to long-term shifts in temperatures and weather patterns, which may be natural or of man-made origin.

- *United Nations Development Programme, 2023*

Citywide Inclusive Sanitation (CWIS) focuses on providing urban areas with access to and benefits from adequate and sustainable sanitation services, including the safe, effective, and sustainable management of all human waste along the whole sanitation service chain.

- *Asian Development Bank*

Ecosystem - is a geographic area where plants, animals, and other organisms, as well as weather and landscapes, work together to form a bubble of life.

- *National Geographic, 2023*

Indigenous - The term indigenous implies those systems that are conveyed formally and informally among kin groups and communities through social encounters, oral traditions, ritual practices, and other activities.

- *University of Pennsylvania, 2014*

Indian Himalayan Region (IHR) - is the section of the Himalayas within the Republic of India, spanning thirteen Indian states and union territories, namely Ladakh, Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, West Bengal, Manipur, Meghalaya, Mizoram, Nagaland, Tripura, Assam, and Arunachal Pradesh

- *National Institution for Transforming India (NITI Aayog)*

Microclimate - is a local set of atmospheric conditions that differ from those in the surrounding areas, often slightly but sometimes substantially.

- *National Centre for Biotechnology Information, 2021*

Nature-based Solutions - Nature-based solutions are actions to protect, sustainably manage, and restore natural and modified ecosystems that address societal challenges effectively and adaptively, simultaneously benefiting people and nature.

- *International Union for Conservation of Nature, 2022*

Resilience - The capacity of individuals, communities, institutions, businesses and systems within a city to survive, adapt and grow no matter what kinds of chronic stresses and acute shocks they experience.

- *Resilient Cities Network, 2022*

Sustainability - is defined as meeting the needs of the present without compromising the ability of future generations to meet their own needs.

- *United Nations Brundtland Commission, 1987*

Used Water management : Sewage (Used Water) Used Water comprises of the following two components: Grey Water from kitchens, bathrooms, wash basins etc. Black Water from toilets & urinals. These may sometimes be mixed with other municipal flows such as surface water and storm water. Management of Used Water includes collection, conveyance, treatment & recycling/ disposal of all the above stated flows.

- *SBM 2.0*

EXECUTIVE SUMMARY

The report on the 'Rapid Assessment of Water and Sanitation in Hill States' is designed to be a living document that will undergo periodic publication at regular intervals, typically once every two years. This approach allows for updates and revisions to reflect the evolving situation and progress in the field of water and sanitation in hilly regions. By publishing the report regularly, stakeholders can stay informed about the current state of water and sanitation, track changes over time, and identify areas that require further attention and improvement.

The report covers 11 states¹ of the north and north eastern region of India. The report is prepared as a part of advocacy to address and develop inclusive, resilient and sustainable urban ecosystems in the Indian Himalayan Region (IHR) of the country. The report deep dives into collating the data pertaining to geography and topography, climatic conditions, demography, administrative details, land use cover, access to water, sanitation and solid waste management and municipal finances. The geography and topography of the region are peculiar and pose various challenges to the technical feasibility of solutions for water, solid and liquid waste management. The states also have a large tracts of land under forest which acts as a carbon sink and plays an important role in mitigating the impact of climatic change.

The report relies on the Census 2011 (Urban) as the base information for parameters such as population, tap water supply, and types of sanitation facilities. However, it acknowledges that this data is outdated and may not accurately reflect the current situation. To overcome this limitation, the report incorporates up-to-date information related to amenities at a city-wide scale, such as the number of Sewage Treatment Plants (STPs) and scientific landfills. This up-to-date information is readily available through central ministries' websites and mission dashboards, ensuring that the report includes the most recent data regarding these specific aspects. By combining the Census 2011 as base information with the up-to-date data on key amenities, the report aims to provide a more comprehensive and nuanced understanding of the state of water and sanitation in hilly regions, considering both the limitations of the base data and the availability of recent information on specific parameters.

Water and sanitation is a state subject in India meaning that the responsibility for implementation, planning, and management of water and sanitation programs primarily lies with the respective state governments. While data from the central government and its associated ministries may be readily available, gathering up-to-date information at the state level and making it accessible to the public can require extended support and coordination. State governments may face various challenges in collecting and disseminating timely and accurate data on water and sanitation. These challenges can include limited resources, technical capacity, and coordination issues. As a result, the availability of up-to-date information at the state level may vary, and there might be a need for assistance to ensure that the gathered data is reliable and accessible to the public.

¹Jammu, Kashmir and Ladakh union territories erstwhile Jammu and Kashmir state; the data from the respective territories are disaggregated in the report. The current study could not cover part of West Bengal state and there is no specific rationale behind this exclusion. It is planned to cover the other hill regions in the future endeavours of the forum.

In order to address this, it is crucial for the central government and relevant institutions (academia, research institutes, non-profit organisations, etc) to collaborate with state governments, providing them with the necessary support and resources to gather, analyze, and publish up-to-date information on water and sanitation. This can involve capacity-building initiatives, technical assistance, and the development of standardized reporting frameworks to streamline data collection and reporting processes.

By fostering stronger collaboration and support between the central and state governments, efforts can be made to ensure that the public has access to accurate and up-to-date information on water and sanitation, enabling informed decision-making and effective planning for sustainable water and sanitation services across the country.

Status of Water and Sanitation

The hill states in the IHR have relatively good access to piped water supply, with an average of 68% of urban households having this facility, according to Census 2011. And as per the dashboard data (current) available on the Ministry of Jal Shakti (MoJS) website, an average 72.58 % of rural households have piped water supply. Similar real-time data is not available for urban households. Moreover, there is a significant dependence on groundwater in some states like Assam, Mizoram, Nagaland, and Meghalaya. Manipur has the highest percentage of households accessing water directly through surface water bodies.

The proximity to water sources indicates the effort and time invested by households to access water. Uttarakhand has the highest percentage of households with piped water supply within their premises. However, Nagaland and Manipur have poor proximity to water sources, where access to water largely depends on surface water bodies.

The hill states in the IHR generally have better access to toilets, with an average of 92% of urban households having individual household toilets. It is noteworthy that all the states in the region have been declared Open Defecation Free (ODF) under the Swachh Bharat Mission.

The states in the region show varying degrees of collection and conveyance of wastewater. Some states, such as Himachal Pradesh and Uttarakhand, with 59% and 45 % have the highest number of urban households connected to drainage networks, while others like Assam and Tripura have a higher percentage of households managing wastewater on-site.

There is a significant gap between the total sewage generation (3086 MLD) and the total treatment capacity (1033 MLD) in the region, indicating a shortage in the infrastructure to effectively treat the generated sewage. Himachal Pradesh has a treatment capacity higher than the sewage generated in the state, followed by Uttarakhand but, several states, including Arunachal Pradesh, Assam, Meghalaya, Mizoram, and Nagaland, have no installed treatment capacity or a few coming-up treatment plants, suggesting a lack of infrastructure for treating sewage in these areas.

Tripura is the only state reporting the reuse of treated wastewater for purposes such as watering city parks, gardens, and roads. Other states discharge treated wastewater into surface water bodies to maintain environmental flow in the rivers.

This data highlights that, on average, 87% of the wards in the states under the IHR have access to door-to-door waste collection services. This means that waste collection personnel visit individual households or premises to collect solid waste directly. As a result of this widespread door-to-door collection, a cumulative

amount of 5190 tons per day (TPD) of solid waste is collected across these states. This figure represents the total amount of solid waste collected daily from households and premises in the covered wards.

It is worth noting that the specific states under the IHR and their respective waste management systems may vary. This data suggests that the door-to-door waste collection service has been implemented effectively in these states, leading to a significant collection of solid waste from households and contributing to proper waste management practices. Further analysis can be conducted to assess the efficiency, sustainability, and environmental impact of the waste management system in place, as well as potential areas for improvement or expansion of waste collection services.

The states of IHR have a higher percentage of female workers compared to the national average in India. Eight out of the eleven states in the IHR have a female working population that exceeds India's average of 12%. This suggests that women in the IHR states are actively participating in the workforce, potentially due to factors such as cultural norms, social empowerment initiatives, educational opportunities, and regional economic conditions. Further analysis can shed light on the specific sectors where women are employed and the implications for women's empowerment and gender equality in the region.

The state of Himachal Pradesh has the highest municipal revenue INR 4460 per capita in the IHR, close to India's average of INR 4624 per capita. Nagaland has the lowest municipal revenue per capita with INR 238 per capita. Similarly, Himachal Pradesh has the highest municipal expenditure per capita with INR 5335 per capita, while Arunachal Pradesh has the lowest with INR 76 per capita. These disparities reflect variations in financial capacity and resource allocation for municipal services among the states.

Overall, the hill states in the IHR have made significant progress in providing access to water and sanitation facilities, particularly individual household toilets. However, there are variations in terms of proximity to water sources, management of wastewater, and treatment infrastructure. Efforts should be directed towards improving wastewater treatment capacity, promoting water reuse, and ensuring sustainable water and sanitation practices across the region.

ABOUT INDIAN HIMALAYAN REGION

Himalayas are the world's youngest mountain ranges, tectonically alive, and one of the most marginalized mountain regions of the world. The Indian Himalayan Region (IHR) is the section of the Himalayas within the republic of India, spanning Indian State and Union Territories, namely Ladakh, Jammu Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, Meghalaya, Assam, Tripura, Mizoram, Manipur, Nagaland, Arunachal Pradesh, and West Bengal. The Region stretches along 2,500 km covering 5.3 lakh km² and nearly 50 million (as per NITI Aayog, 2022) people reside in this region, which is characterized by a diverse demographic, and versatile economic, environmental, social, and political systems.

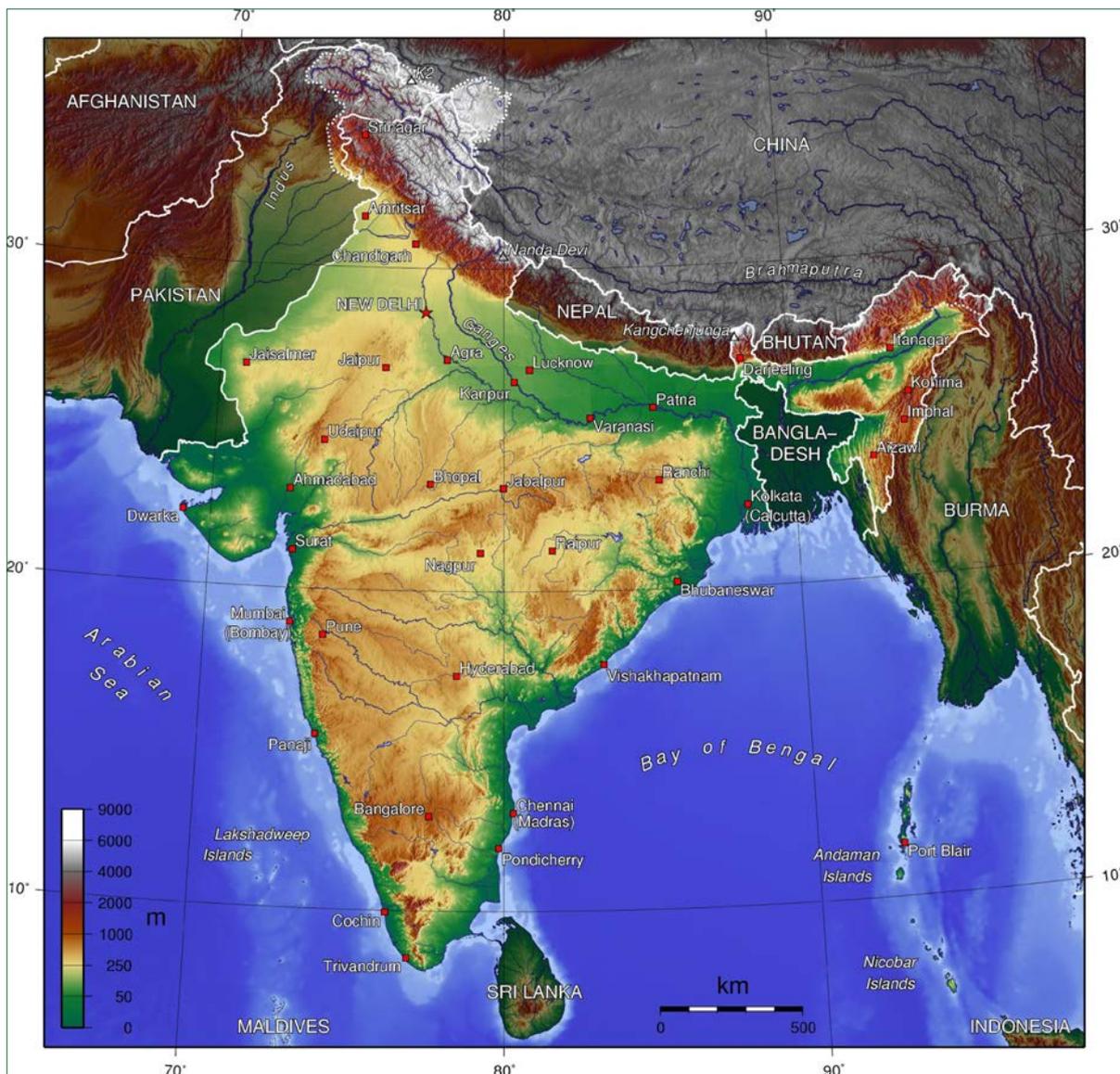


Figure 1: Indian Himalayan Ranges and Rivers (Source: National Mission on Himalayan Studies, 2017)

The region influences weather, economy, energy sources, river, and tourism of the Indian Subcontinent. The region is responsible for providing water to a large part of the Indian Subcontinent.

Rivers

Most of the major rivers in India originate in the region. The Indus, Chenab, Jhelum, Ravi, Beas, Saraswati, Ganges, Sutlej, Brahmaputra and Yamuna rivers all begin their journey in the mountain range, providing water for people to drink and wash in, and use for growing their crops and raise animals. These rivers are perennial are in nature.



Figure 2: Indus river flowing towards Kargil from Leh (Image Credit: Jeevan/BORDA)

Tourism

Tourism affects the lives of people in the Region, and it is largely due to the mountains themselves. Each year, people from all over the world come to scale these famous mountains as part of personal and religious pilgrimages. This has come with rewards and drawbacks. The increased number of tourists visiting the Himalayas as sightseers and trekkers has boosted employment in the region.

Forest

The State of Forest Report (FSI, 2011) estimates that forests cover around 41% of the geographical area of the IHR, with 16.9% of the area being covered by very dense forest, 45.4% by moderate forest, and the remaining 37.7% by open forest. The region is richly endowed with forest resources and supports different types of forest ecosystems along with varied topography. It is remarkable for its diversity of plants and animals and provides abundant ecosystem services to people. The vast green cover in the region also acts as a carbon sink.



Figure 3: Lush green forest of great Himalayas, Kullu, Himachal Pradesh (Image Credit: Jeevan/BORDA)

Economy

The economy of the Indian subcontinent is highly affected by the presence of Himalayan Mountain Range. The dry air of the valley of Kashmir is perfect for growing saffron, which is highly prized worldwide. The area also has vineyards in which grapes are grown to make wine and brandy, and orchards of almonds, and walnuts which are exported out of India. The Kullu valley of Himachal Pradesh is famous for its apples, peaches, pears, and cherries. The IHR is also home to tea estates, cardamom plantations and other medicinal herbs used in ayurvedic medicines.



Figure 4: Hampta Pass, a popular trek route taken by tourist; connects Kullu to Lahaul (Image Credit: Jeevan/BORDA)

is also rich in minerals which includes sapphires, alluvial gold, copper, iron ore, borax, sulphur, coal, bauxite, mica, gypsum, graphite, lead, and zinc.

Energy

Apart from providing life-giving water to people on the Indian subcontinent, the rivers in this region also generate electricity. The Himalayan rivers were first harnessed for this purpose in the 1950s. One of the biggest hydroelectric projects in the Himalayas was built in 1963 at Bhakra-Nangal on the Sutlej River found in the Outer Himalayas. Because of the power of the Himalayan rivers, people in the region and across have been able to live with the benefits of electricity that may have been difficult to bring to the region otherwise.



Figure 5: View of Tehri hydro power dam, Uttarakhand (Image Credit: Shantanu/NIUA)

Weather

The Region has a significant effect on the weather of the Indian Subcontinent. The Himalayan Range stops cold continental air traveling from the north into India during winters. It creates conditions for heavy precipitation on the Indian side of the range. The rain from the south-westerly winds falls in India before moving north over the Range.

Urbanization and Its Impact

In the past few decades, urbanization has emerged as one of the major drivers of global environmental change, transforming IHR where urbanization has been rapid but mostly unsystematic, unplanned, and unregulated. Uncontrolled demand-driven economic growth has resulted in haphazard urbanization, environmental degradation, and increased risks and vulnerabilities, seriously jeopardising the unique values of Himalayan ecosystems.

Unplanned construction activities have caused large-scale land instabilities, the drying up of natural water sources, waste disposal issues, and changes in socio-cultural values.

IHR's urbanization consists of sprawling small towns with populations of less than a lakh. Unplanned urbanization is altering land use and land cover significantly. Rapid unplanned growth of hill towns,

construction activities without proper planning, general non-compliance with prescribed norms and guidelines, and indiscriminate use of land for commercial outfits/tourist resorts have severely and adversely affected the IHR.

Deforestation has caused ecological damage and slope instability in the IHR. The forests are also under pressure due to the changing climate. Significant changes in temperature, precipitation, and vegetation have been observed. A significant reduction in suitable habitat and a massive decline in the population of animal species due to climate change is also predicted.

Climate change has also led to increased rainfall variability. In addition to affecting precipitation, high intensity rainfall events such as cloud bursts have resulted in landslides and flooding. In places like Uttarakhand, Jammu and Kashmir and Assam, heavy rainfalls and glacial outburst trigger landslides and floods that eventually devastate communities and infrastructure. As a result, the economy suffers from stagnation and forced migration.

The continued expansion of urban settlements, and influx of visitors, trekkers, and mountaineers in the Himalayan region has begun to pose high biotic pressure and has also stressed the region's resources, and its natural environment. Anthropogenic pollution, such as solid waste, disposal of untreated sewage, and local air pollution from vehicles, has been steadily increasing in the IHR in the absence of proper management practices and inadequate infrastructure.



Figure 6: View of Kargil town valley located at an elevation of 8,780 ft (Image Credit: Jeevan/BORDA)

The report provides key facts and figures about the hilly states of the Indian Himalayan Region (IHR). It covers various aspects such as state profiles, climatic conditions, demography, administrative details, land use, access to water and sanitation, solid waste management, and municipal finances. The data includes information on population, elevation, temperature, precipitation, population growth rate, population density, sex ratio, working population, urban areas, forestry and agriculture, water access, sanitation, waste management, and municipal revenue.

State profile

There are 11 states and 2 UT in IHR (excluding West Bengal). The spread of the region is approximately 4.3 Lakh sqkm of area. The largest states in the IHR are Arunachal Pradesh (83,743 km²) followed by Assam (78,438 km²). The average elevation is highest in Jammu and Kashmir (2,717 m above MSL) and lowest in Tripura (65 m above MSL).

Demography and population growth rate:

The IHR region accommodates a total population of 73 million. Assam has the highest population (3.12 crore), followed by Jammu and Kashmir (1.22 crore). Nearly 30% of the population live in urban area which is in line with national average of 31.6%. Mizoram has the highest proportion of urban population (52.11%). Meghalaya has the highest population growth rate (27.90%), followed by Arunachal Pradesh (26%). Except for Assam (398 persons/km²), the Himalayan states have relatively low population densities when it is compared with India's average population density of 382 per sq km and decadal growth of 17.72%

Sex ratio

The sex ratio in the Himalayan states is higher than India's average (940 females per 1000 males). Meghalaya has the highest sex ratio (989). Other states with high sex ratios include Manipur (985), Mizoram (976), Himachal Pradesh (972), Uttarakhand (963), Tripura (960), and Assam (958).

Working population

The average percentage of main workers in the IHR is 30%, which matches India's average. Mizoram and Sikkim have the highest percentage of main workers (38%), while Tripura has the lowest (9%). Female working population in the IHR is higher than the national average, with Himachal Pradesh and Nagaland having the highest percentages (22% and 20% respectively).

Urban local body in IHR

Due to geographical and terrain constraint, the IHR states have fewer larger cities, ULB's. There are 17 city corporations with average population density of 5,055 persons per km², compared to 228 and 162 Municipal Councils and Nagar Panchayats with average population density of 2,662 and 3,430 persons per km² respectively

Access to water

The average access to piped water supply in the IHR is 68%. Uttarakhand has the highest percentage of households with piped water supply (85%). Some states rely heavily on groundwater, such as Assam, Mizoram, Nagaland, and Meghalaya, while Manipur has the highest access to water through surface water bodies (27%).

Sanitation:

- ♦ **Access to toilet:** On average, 92% of households in the IHR have individual household toilets and rest are dependent on shared/community toilet. All states in the IHR have been declared Open Defecation Free under the Swachh Bharat Mission.
- ♦ **Collection and conveyance:** States in IHR are largely dependent on-site sanitation system covering nearly 80% of the households, whereas 20% of households are connected to closed sewer systems. Assam has the highest on-site sanitation system (55%), followed by Tripura (53%). Uttarakhand and Himachal Pradesh have the highest percentages of households connected to drainage networks (92%).
- ♦ **Waste water management:** The total sewage generation in IHR is 3,086 MLD. The total capacity of the treatment infrastructure in the IHR states is 1033 MLD; out of which 884 MLD (86%) is the capacity of installed infrastructure and 149 MLD (14%) is the capacity of proposed infrastructure. Out of the installed treatment capacity, only 590 MLD (67%) is the operational capacity and 260 MLD (29%) is capacity of the infrastructure under-construction. The infrastructure with a treatment capacity of 34 MLD (4%) is non-operational.

Solid waste management

On average, 87% of wards in the IHR have door-to-door waste collection. The cumulative collection of solid waste in the region is 5,190 TPD. The average percentage of waste scientifically processed is 44%, with Jammu and Kashmir having the highest rate (75%). Uttarakhand has the highest number of scientific landfills (30), followed by Jammu and Kashmir (27). There are 224 unscientific dumpsites across IHR.

Municipal revenue

Average municipal revenue of ULB's in hilly states is INR 1729.4 per capita whereas the national average is INR 4624 per capita. Himachal Pradesh has the highest municipal revenue per capita (INR 4,460) and Nagaland has the lowest with INR 238 per capita. Average contribution to municipal revenue through own revenues and property taxes revenue is at 7.2% in comparison to 14.9%, national average for FY 2017-18

STATE-WISE RAPID ASSESSMENT

Section 3 of the report is designed to present qualitative data in a visually engaging format, making it easier for readers to comprehend. To achieve this, state-wise profiling has been carried out to effectively articulate the information.

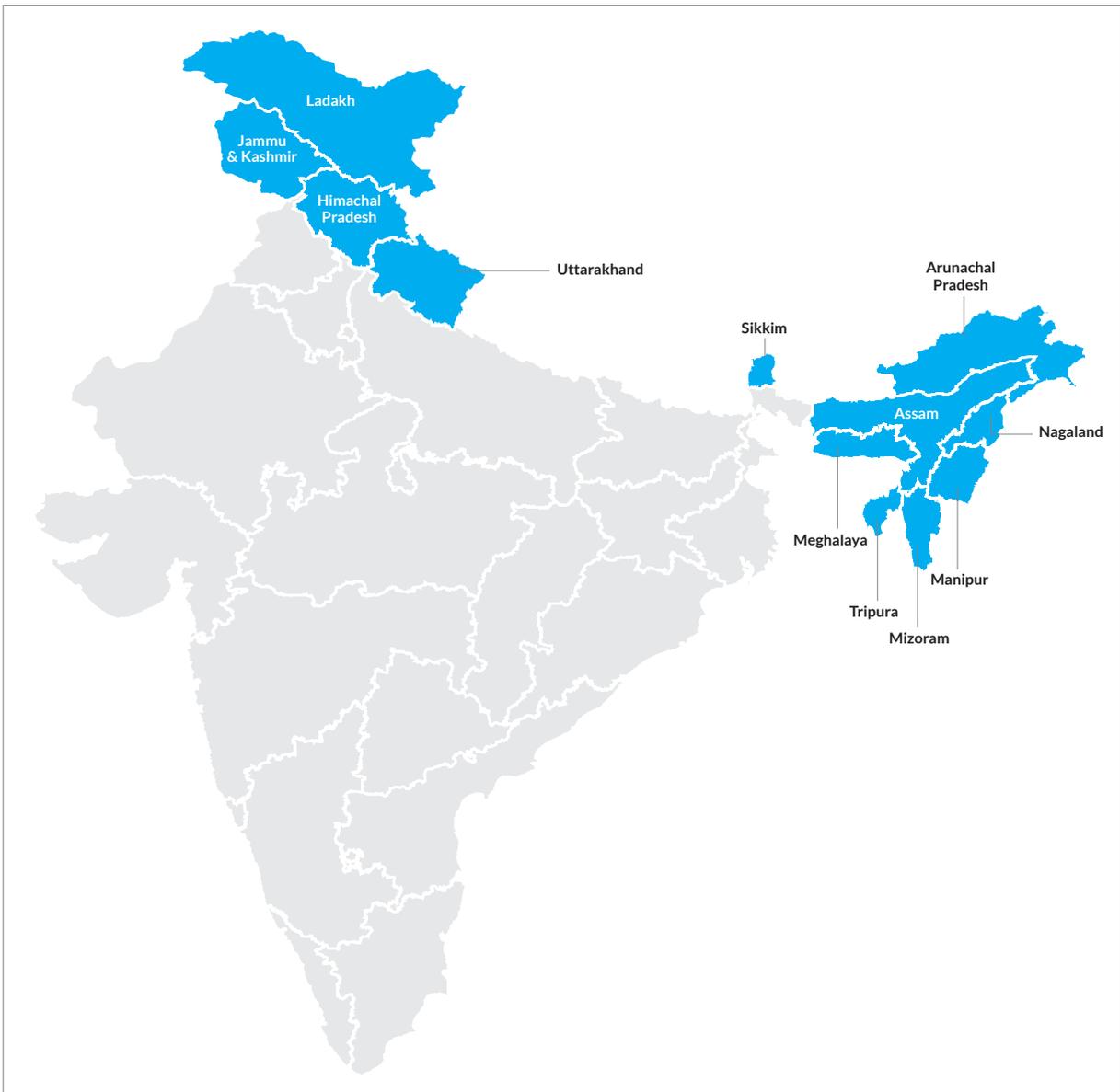


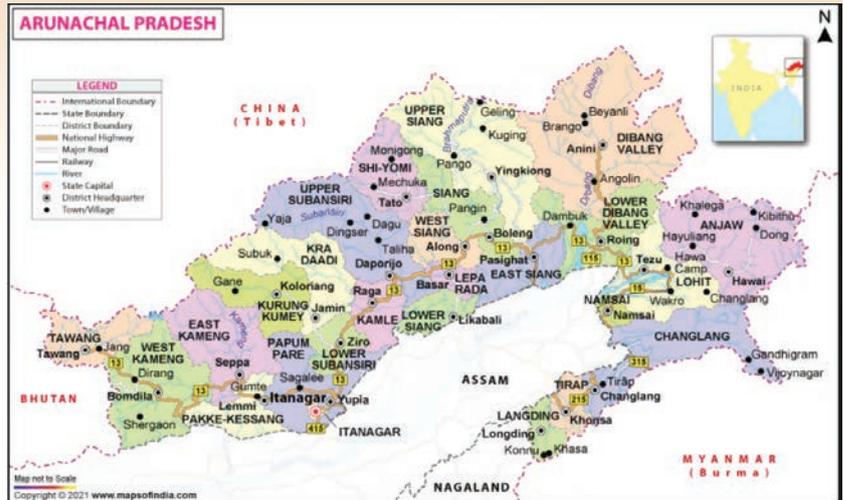
Figure 7: Map of north and north eastern states of India selected for rapid assessment

Source: NIUA

Arunachal Pradesh

Capital	Itanagar
Districts	26
Area	83,743 km ²
Total Population (2011)	13,83,727
Density	17 persons/km ²
Elevation	533.95 m above MSL

Source: Various



Geography

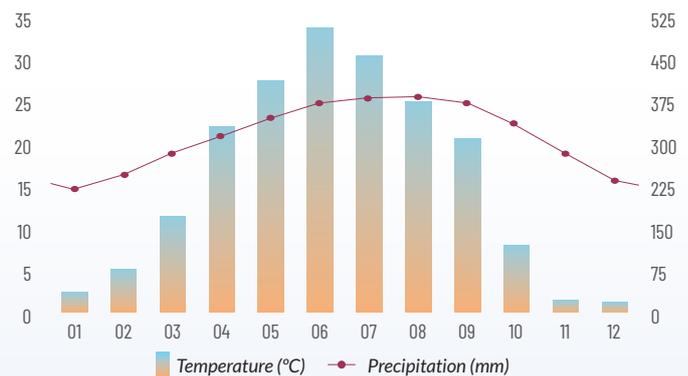
Arunachal Pradesh is the remotest state and the first Indian state to greet the rising sun with a geographic area of 83,743 km². Located on the north eastern tip of India between 26.28° N and 29.30° N latitude and 91.20° E and 97.30° E longitude, with its borders touching China, Bhutan, and Burma (Myanmar), Arunachal Pradesh is the largest of the Seven Sister States of Northeast India by area. Arunachal Pradesh shares a 1,129 km border with China's Tibet Autonomous Region. The state's terrain consist of deep valleys and ridges that rise to the peaks of the Great Himalayas.

Climate

Arunachal Pradesh has a humid subtropical, dry winter climate. Climate varies with elevation.

Yearly average temperature	25.08°C
Annual precipitation	170.79 mm
Rainy days	188 rainy days

Source: Various

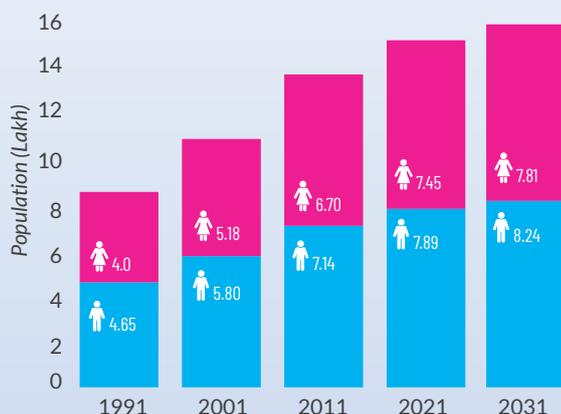


Demography

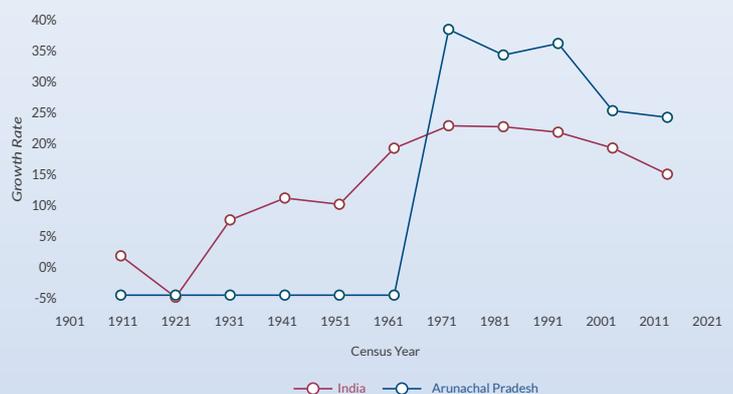
As per census 2011, 22.94 % of the total population resides in urban areas and 77.06 % resides in rural areas.



Population



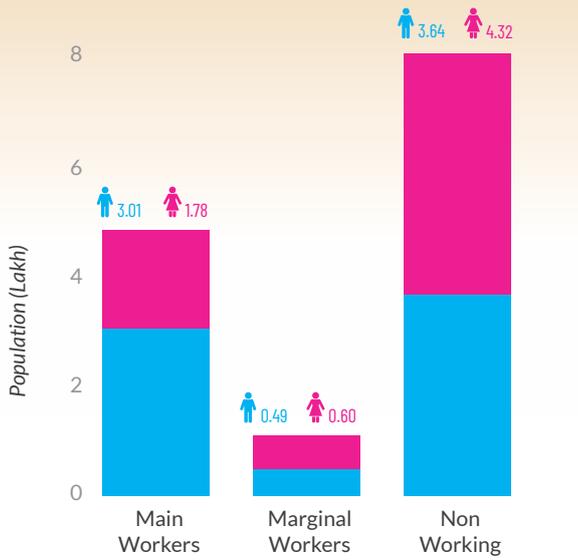
Decadal Variation



(Census of India, 2011)

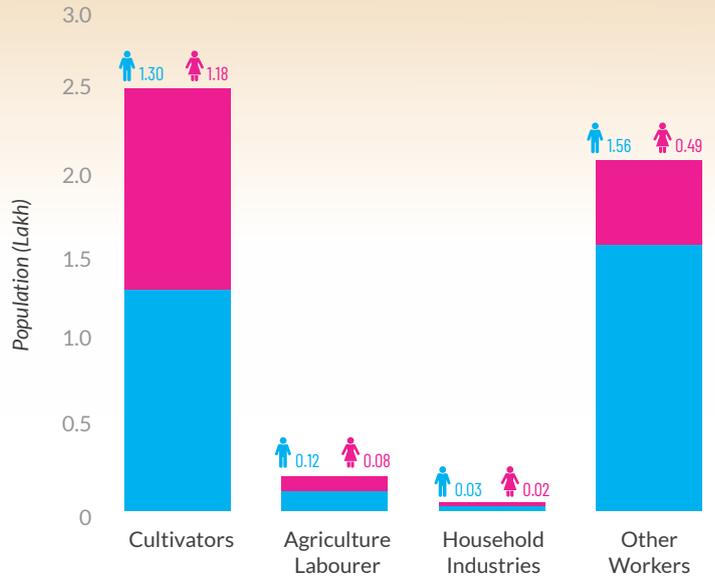
(Ministry of Health & Family Welfare, 2020)[2]

Working & Non Working Population

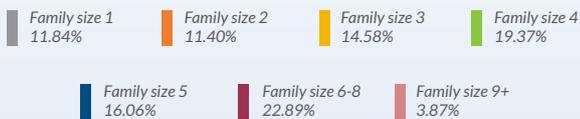
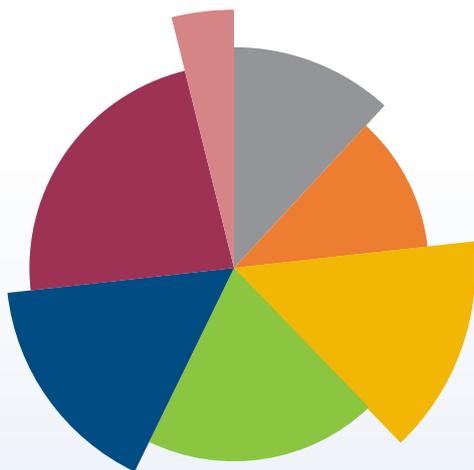


(Census of India, 2011)

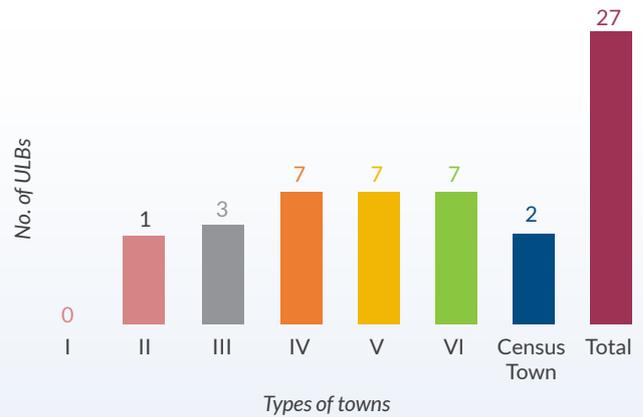
Main Workers



Family Size



Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	0	Area (sq.km.)	0
Population (Lakh)	0	Population Density (persons/sq.km.)	0

Municipal Councils

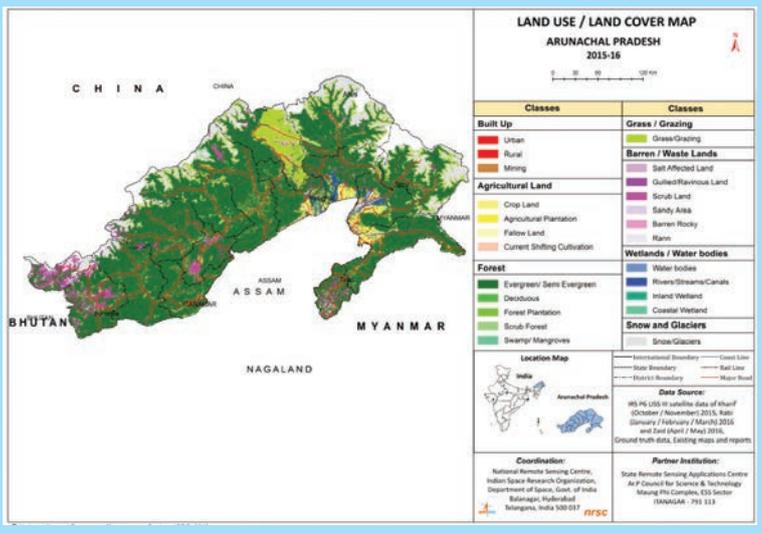
Number	2	Area (sq.km.)	61.65
Population (Lakh)	1.2	Population Density (persons/sq.km.)	1,946.5

Nagar Panchayats

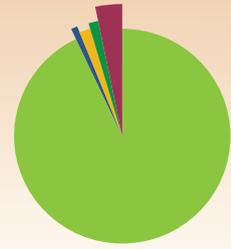
Number	0	Area (sq.km.)	0
Population (Lakh)	00	Population Density (persons/sq.km.)	0

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



(ISRO, 2019)



93% Forests
 1% Not under Cultivable Land
 3% Net sown area
 2% Uncultivable land excluding Fallow Land
 1% Total Fallow Land

Geographical Area (Thousand Hectares)	8,374
Area for Land Utilisation Statistics (Thousand Hectares)	7,172

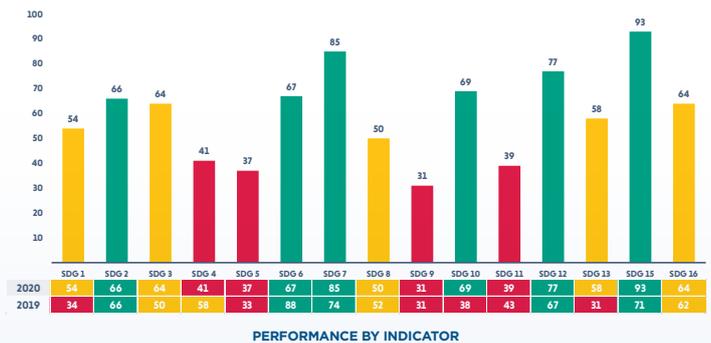
(Ministry of Agriculture and Farmers Welfare, 2021)[1]

SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator



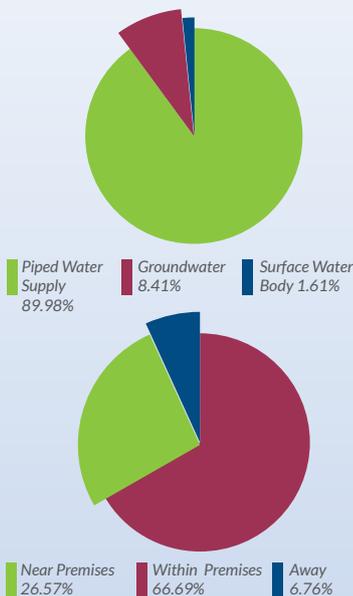
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

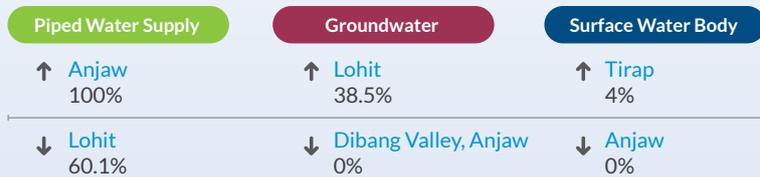
Itanagar is having 85% piped water supply as per State Annual Action Plan (SAAP) 2017-18 and AMRUT mission target is 100% piped water supply.

Indicators: ↑ Highest ↓ Lowest

State Scenario

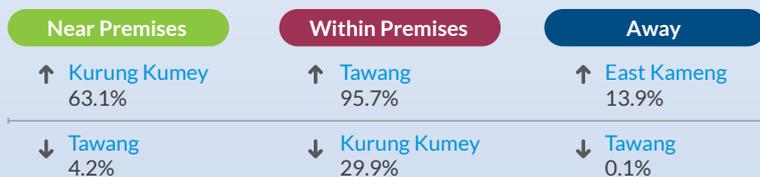


Source of Water



Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source



(Census of India, 2011)

■ Specific Cities

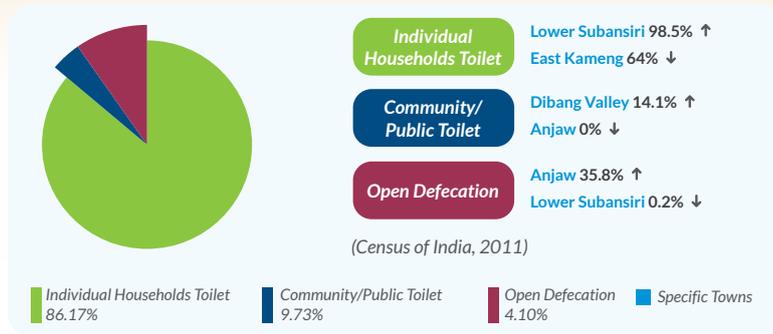
Access to Sanitation

The state has secured 23rd rank in Swachh Survekshan 2021.

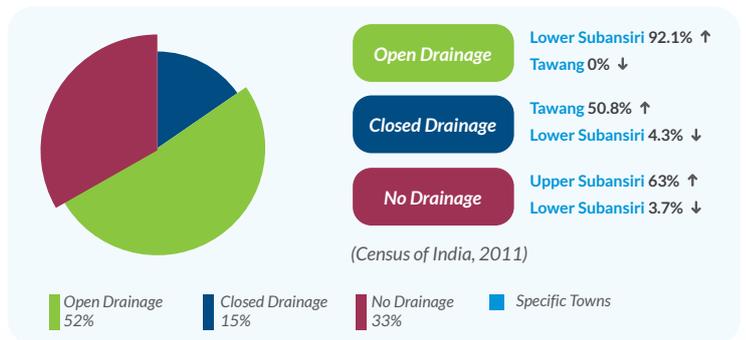
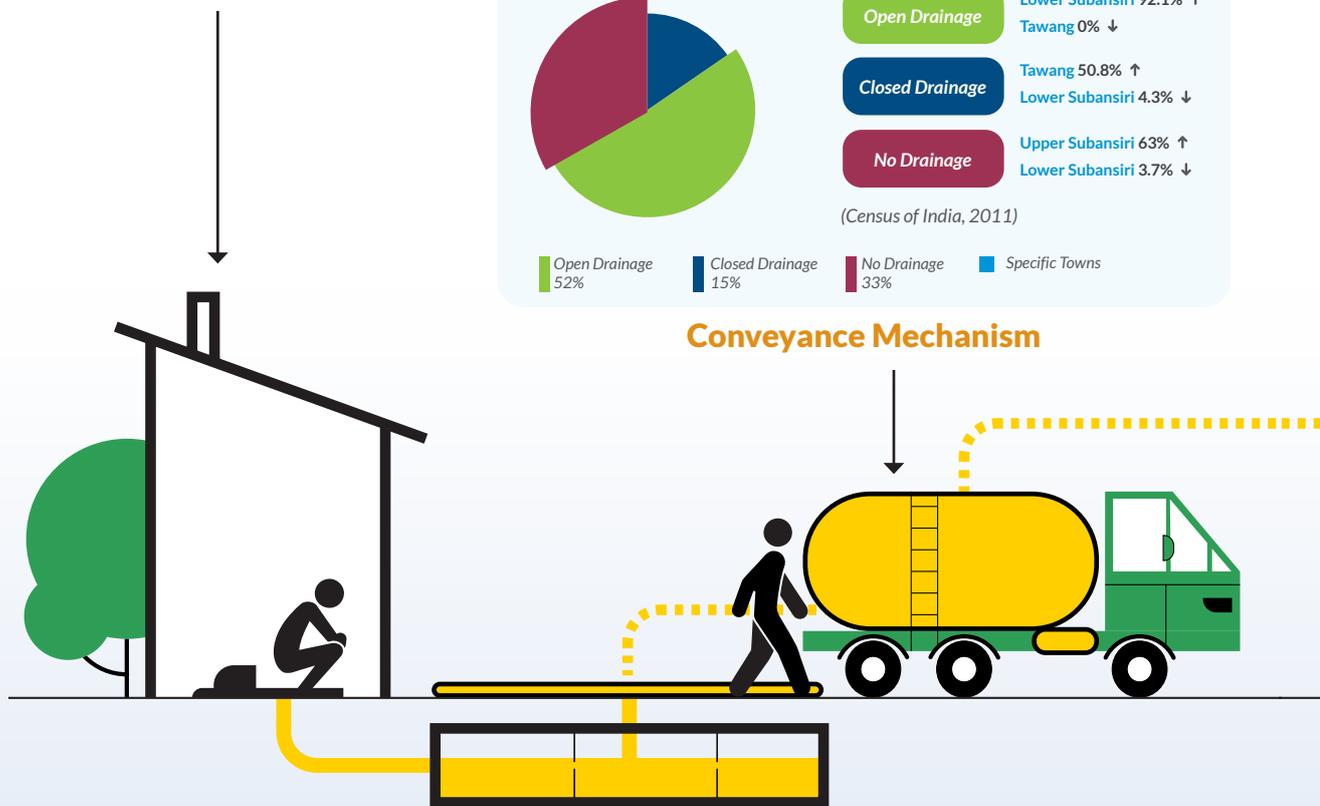
Total ULB/Cities - 46 | Individual Household Toilet Target: 12252 | Target Achieved: 79.5%

Community/Public Toilet Target: 387 | Target Achieved: 11.8%

ODF: 23 ULBs | ODF+: 0 ULBs

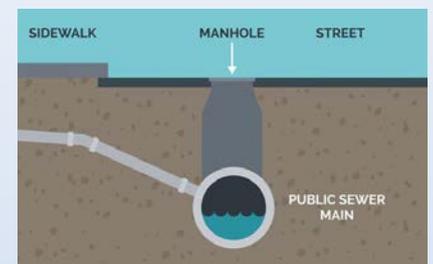
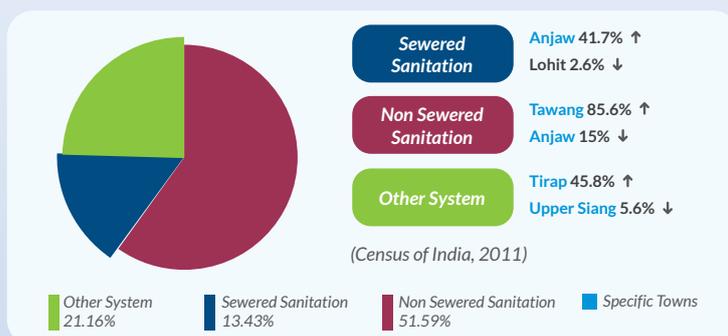


Access to Toilet



Conveyance Mechanism

Containment*



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewerage or non-sewerage sanitation system. Closed drainage refers to sewerage sanitation system. Open drainage refers to non-sewerage sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

No treatment plant available

Total sewage generation 62 MLD

Treatment
(CPCB, 2021)



Enduse/Disposal

No Reuse and discharge in open



Solid Waste Management

No Garbage Free City



(SBM Urban, 2022)

School Sanitation

4,047 Institutions

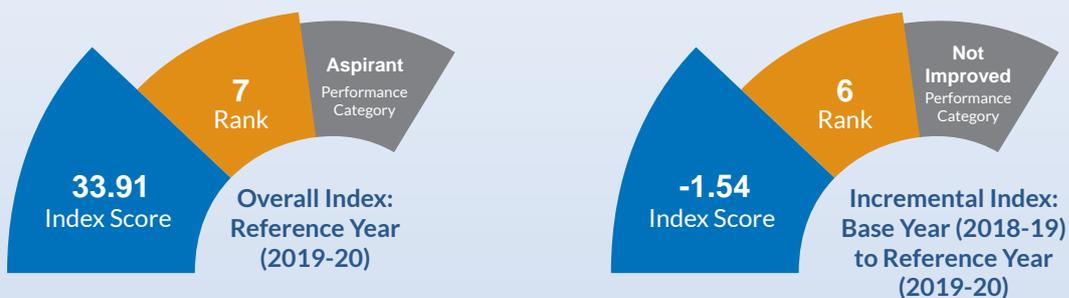
81.47% Drinking Water Facility

96.56% Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Itanagar	None

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 140.25 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 225 crore (2021 - 2026)



(State Annual Action Plan (SAAP), Arunachal Pradesh 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants – Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

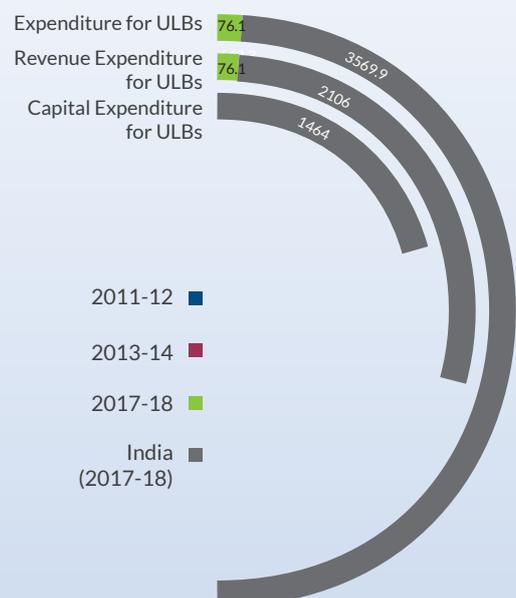
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2020.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Assam

Capital	Dispur
Districts	35
Area	78,438 km ²
Total Population (2011)	31,205,576
Density	398 persons/km ²
Elevation	198.18 m above MSL

Source: Various

Geography

The state is the largest state in the North East bordering seven states and two countries Bangladesh & Bhutan. Assam is surrounded by the Himalayan Mountains, Brahmaputra and Barak River valleys situated at the elevation of 79.5 m above mean sea level.

Climate

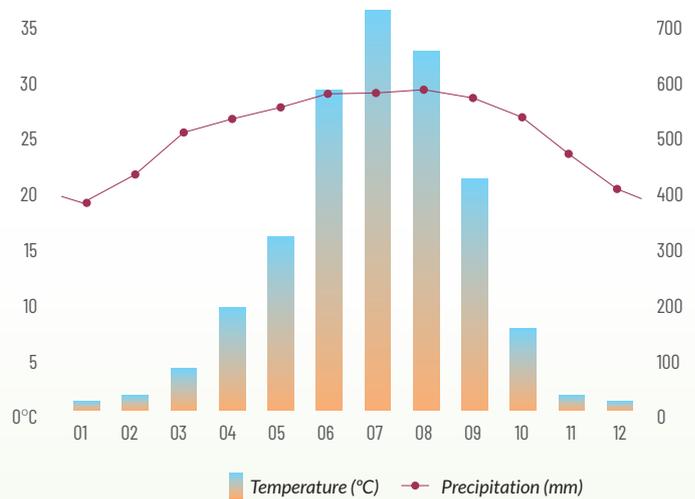
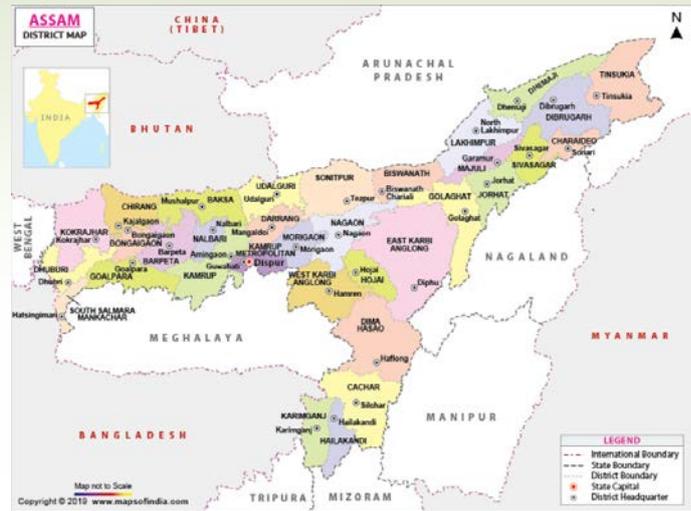
Assam has a humid subtropical, dry winter climate. Assam has a tropical monsoon climate with heavy monsoon. Assam agriculture usually depends on the south-west monsoon rains.

Yearly average temperature	26.14°C
Annual precipitation	145.83 mm
Rainy days	191.64 rainy days

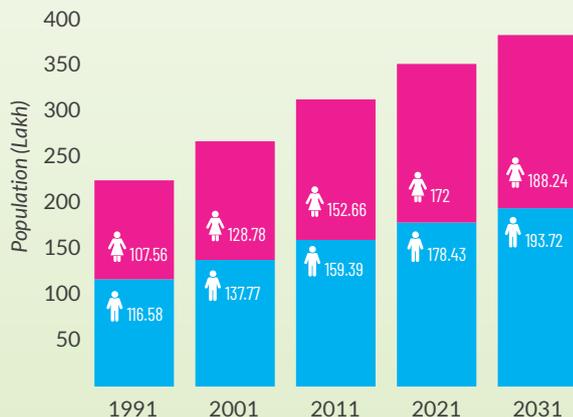
Source: Various

Demography

As per census 2011, in Assam out of the total population of 31,205,576 persons, 14 % resides in urban and 86 % of the population resides in the rural areas.



Population



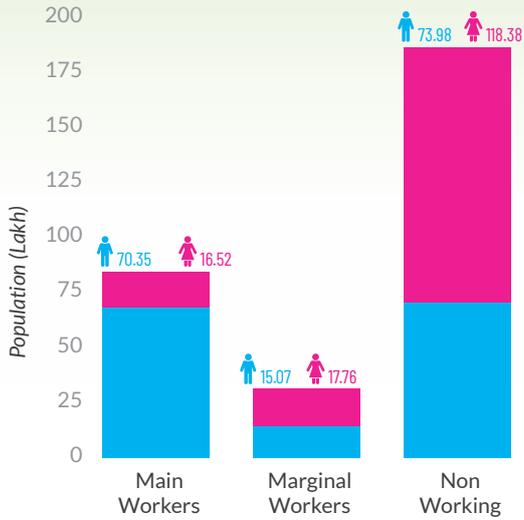
(Ministry of Health & Family Welfare, 2020)[2]

Decadal Variation



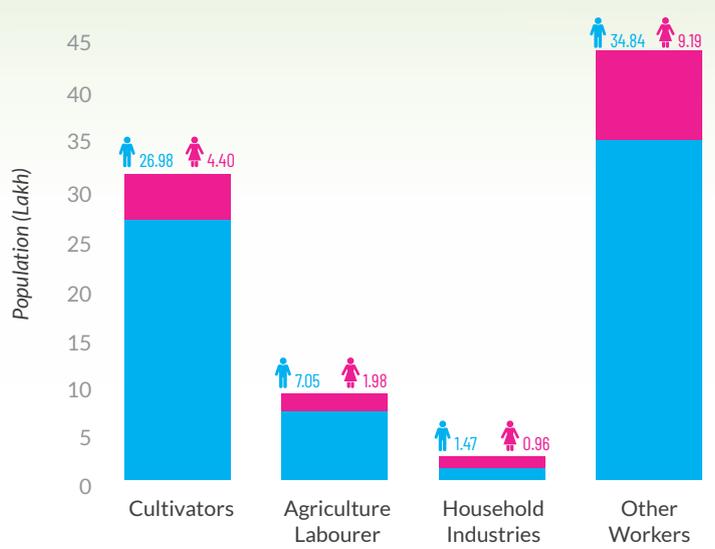
(Census of India, 2011)

Working & Non Working Population

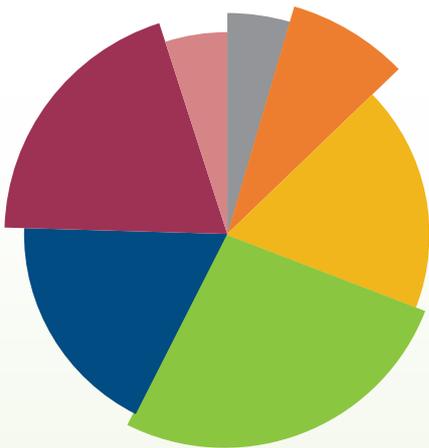


(Census of India, 2011)

Main Workers



Family Size



Family size 1: 4.53%, Family size 2: 8.23%, Family size 3: 18.11%, Family size 4: 26.57%

Family size 5: 18.02%, Family size 6-8: 19.60%, Family size 9+: 4.94%

Population range for each class of city

Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	1	Area (sq.km.)	216.79
Population (Lakh)	9.6	Population Density (persons/sq.km.)	4428.2

Municipal Councils

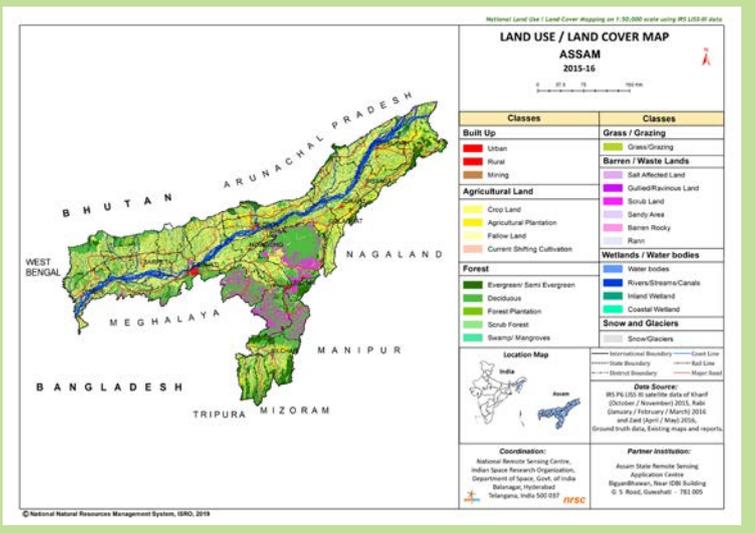
Number	31	Area (sq.km.)	236.09
Population (Lakh)	6.8	Population Density (persons/sq.km.)	2880.3

Nagar Panchayats

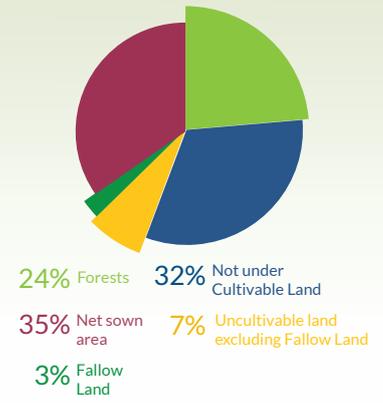
Number	56	Area (sq.km.)	280.93
Population (Lakh)	15.4	Population Density (persons/sq.km.)	5481.8

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



(ISRO, 2019)



Geographical Area (Thousand Hectares)	7,844
Area for Land Utilisation Statistics (Thousand Hectares)	7,844

(Ministry of Agriculture and Farmers Welfare, 2021)[1]

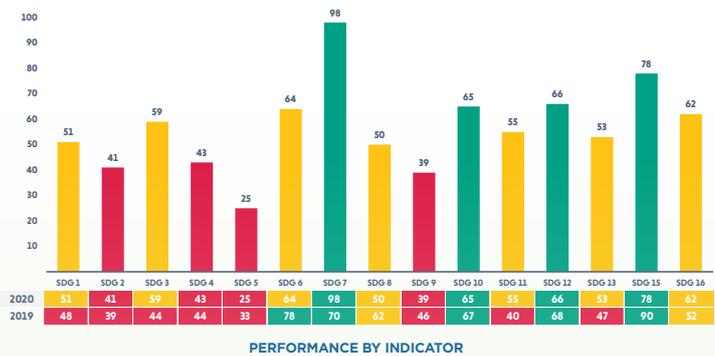
SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator

RANK: 24 RANK: 26 Score: 60 Score: 57

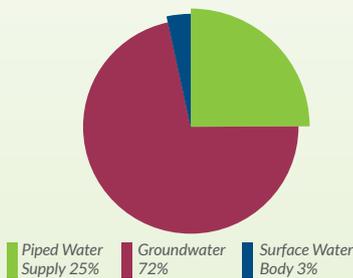


(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

Nagaon has 65%, Dibrugarh has 65% and Silchar has 70% are three cities under AMRUT having direct water supply.

State Scenario



Source of Water

Piped Water Supply	Groundwater	Surface Water Body
↑ Cachar 67%	↑ Baksa 96.5%	↑ Dhemaji 0.3%
↓ Baksa 2.8%	↓ Hailakandi 20.8%	↓ Karimganj 17%

Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source

Near Premises	Within Premises	Away
↑ Barpeta 91.2%	↑ Dima Hasao 28.8%	↑ Dima Hasao 29.3%
↓ Dima Hasao 42%	↓ Barpeta 6.3%	↓ Dhemaji 1.5%

(Census of India, 2011)

■ Near Premises 14% ■ Within Premises 78% ■ Away 8%

■ Specific Cities

Access to Sanitation

The state has secured 23rd rank in Swachh Survekshan 2021.

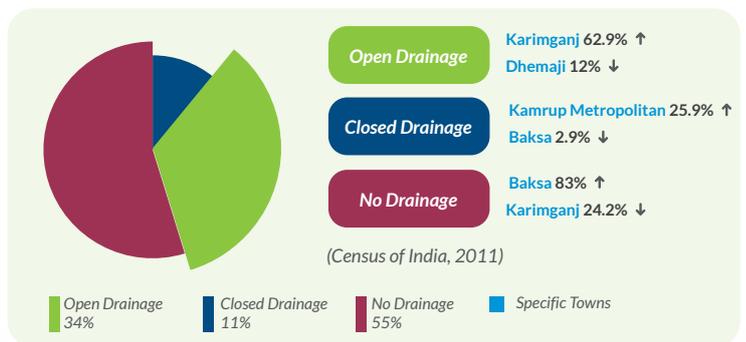
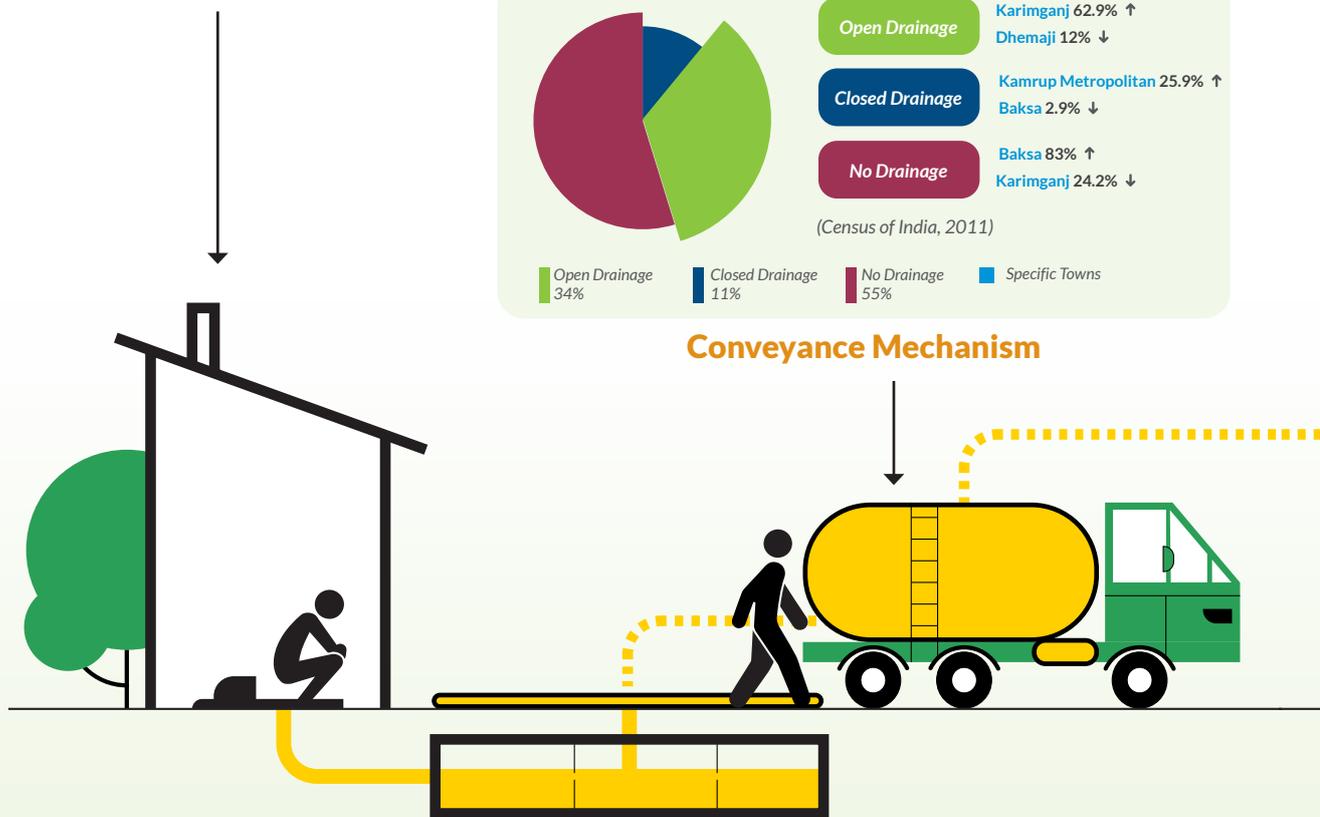
Total ULB/Cities – 96 | Individual Household Toilet Target: 75,720 | Target Achieved: 103.19%

Community/Public Toilet Target: 3,554 | Target Achieved: 94.42%

ODF: 96 ULBs | ODF+: 27 ULBs

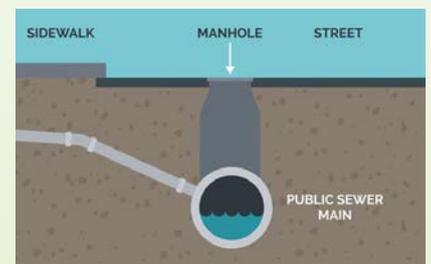
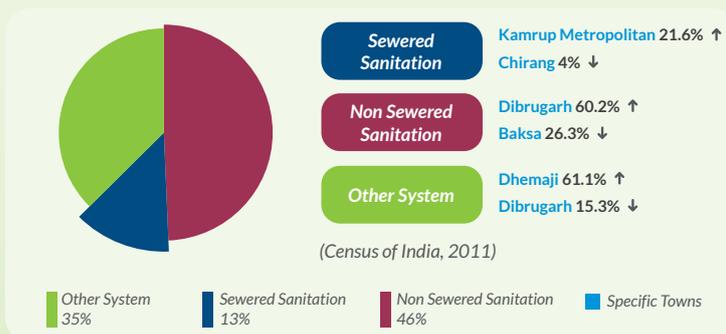


Access to Toilet



Conveyance Mechanism

Containment*



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewerage or non-sewered sanitation system. Closed drainage refers to sewerage sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

No treatment plant available

Total Sewage generation 809 MLD

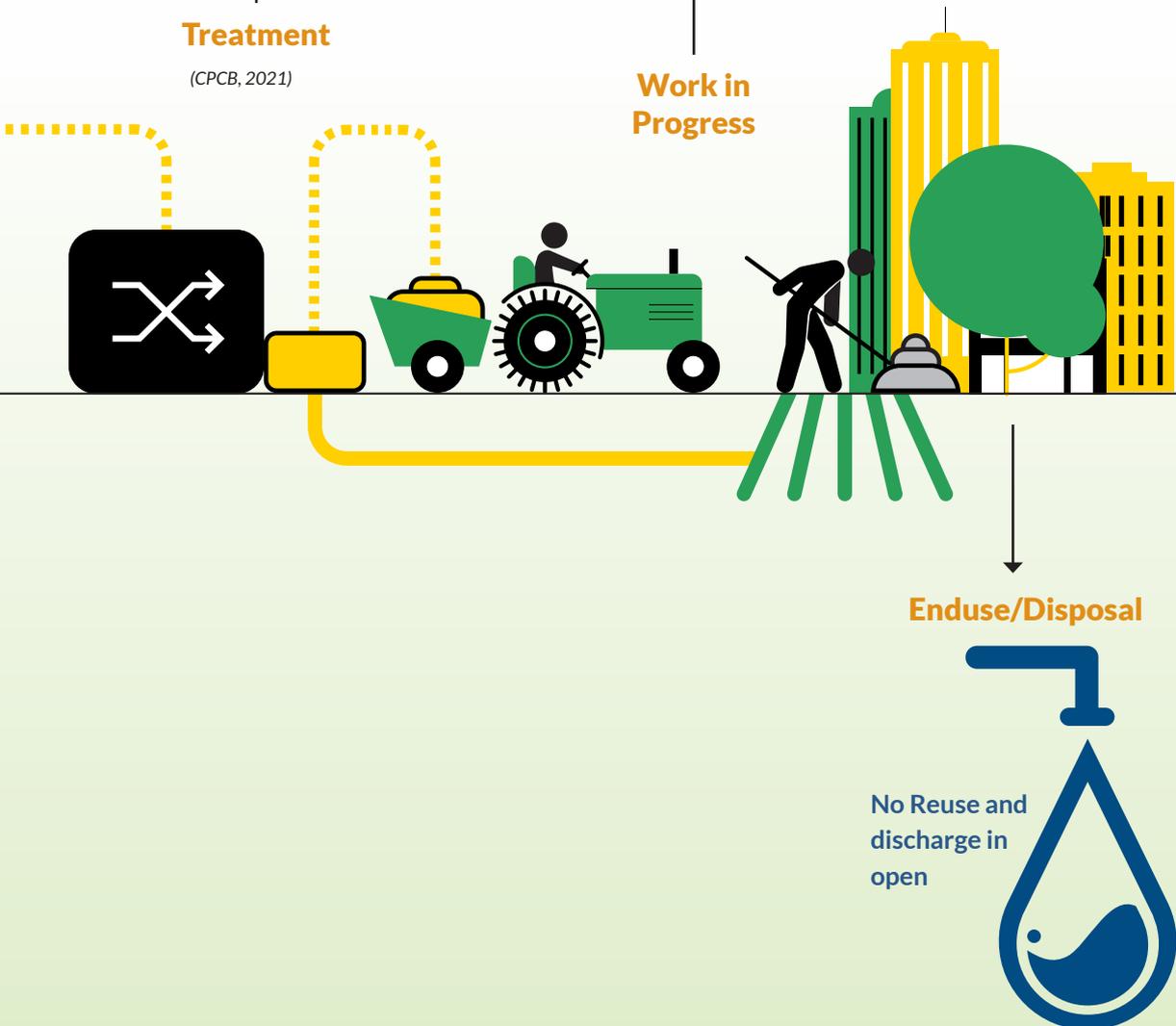
Proposed FSTP capacity 120 MLD

Treatment (CPCB, 2021)

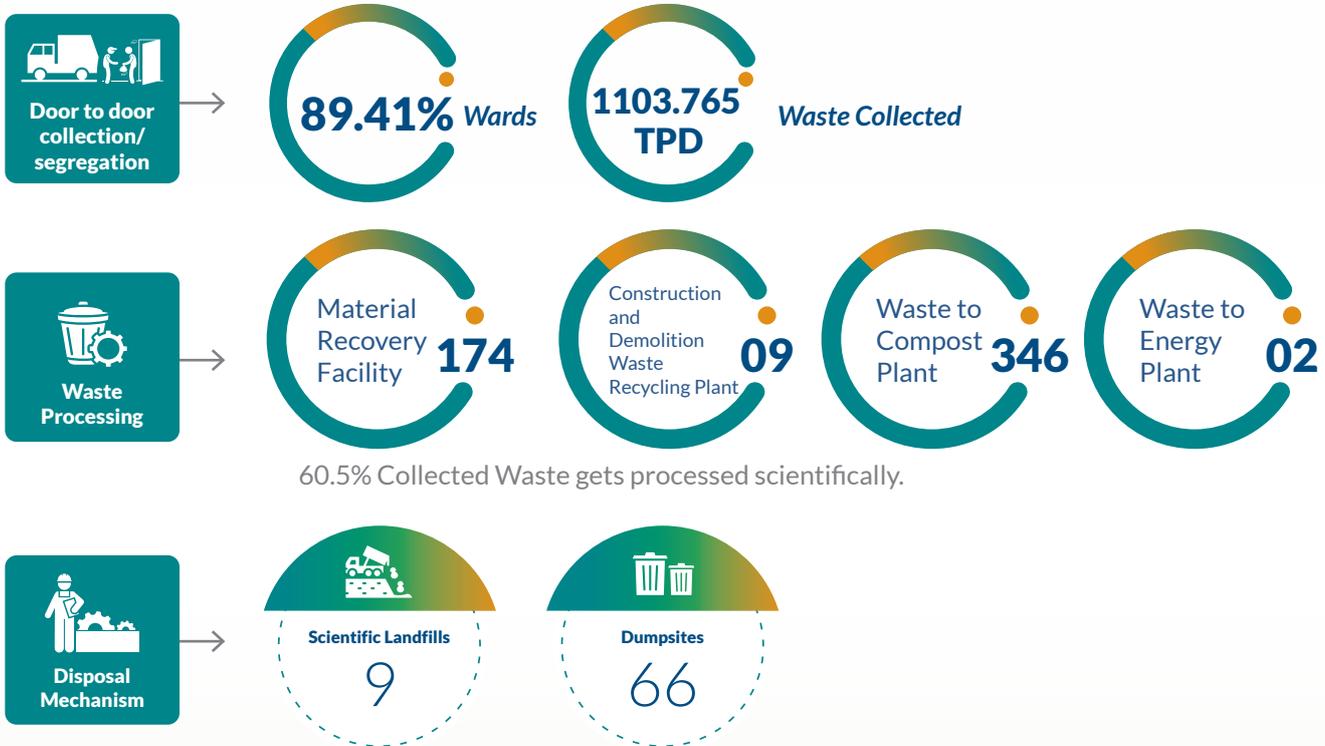
Work in Progress

Enduse/Disposal

No Reuse and discharge in open



Solid Waste Management



(SBM Urban, 2022)

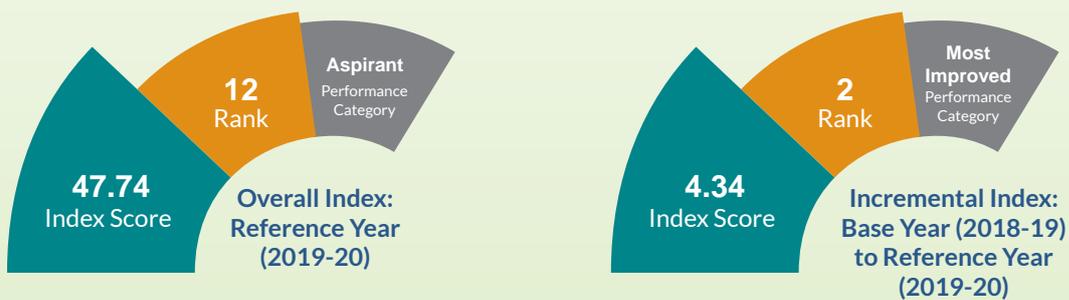
School Sanitation



Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Guwahati, Nagaon, Dibrugarh, Silchar	Kamrup Metropolitan

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 657.14 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 770 crore (2021 - 2026)

Water Supply



Sewerage and Septage Management



Drainage



(State Annual Action Plan (SAAP), Assam 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants – Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Himachal Pradesh

Capital	Shimla (Summer) Dharamshala (Winter)
Districts	12
Area	55,673 km ²
Total Population (2011)	68,64,602
Density	123 persons/km ²
Elevation	2197.07 m above MSL

Source: Various



Geography

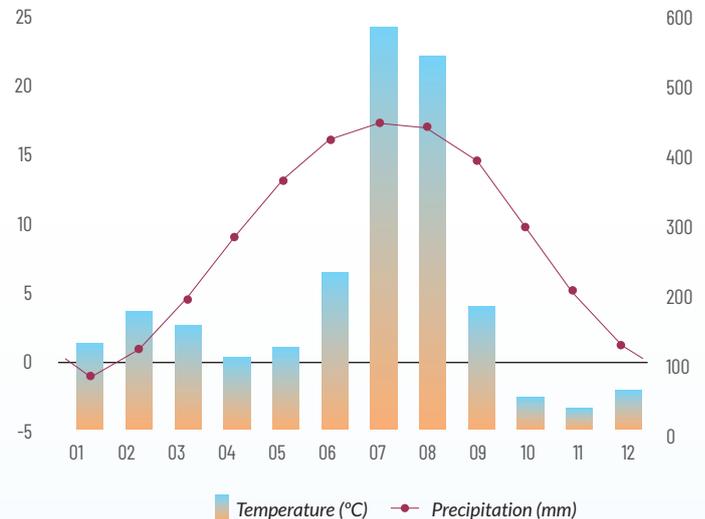
The state is bordered by Jammu & Kashmir on the North, Punjab on the West and South - West, Haryana on the South, Uttarakhand state border on the South-East and China on the East. The State is spread across valleys with many rivers flowing. The state elevation varies from 350m to 6,975m.

Climate

The state has huge variation in the climatic condition due to variation in altitude. The state has a subtropical climate with an average annual rainfall of 1,251 mm. Dharamshala receives the highest rainfall nearly about 3,400mm.

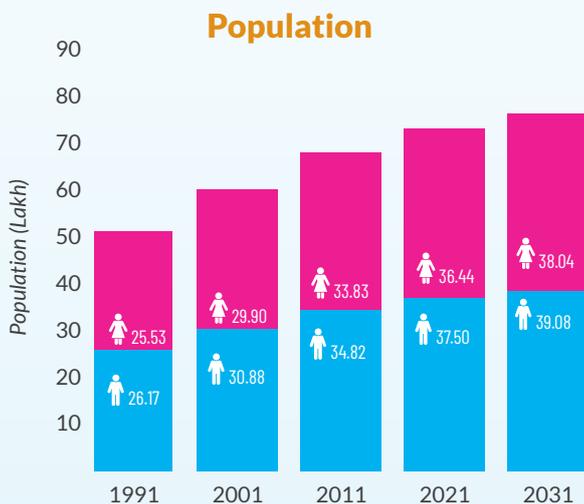
Yearly average temperature	18.4°C
Annual precipitation	105.62 mm
Rainy days	146.27 rainy days

Source: Various



Demography

As per census 2011 and state annual action plan for AMRUT, 10% of the total population resides in urban areas and 90% resides in rural areas.



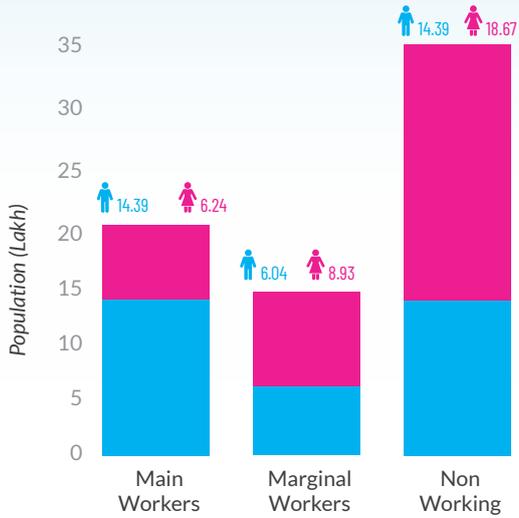
(Ministry of Health & Family Welfare, 2020)[2]

Decadal Variation



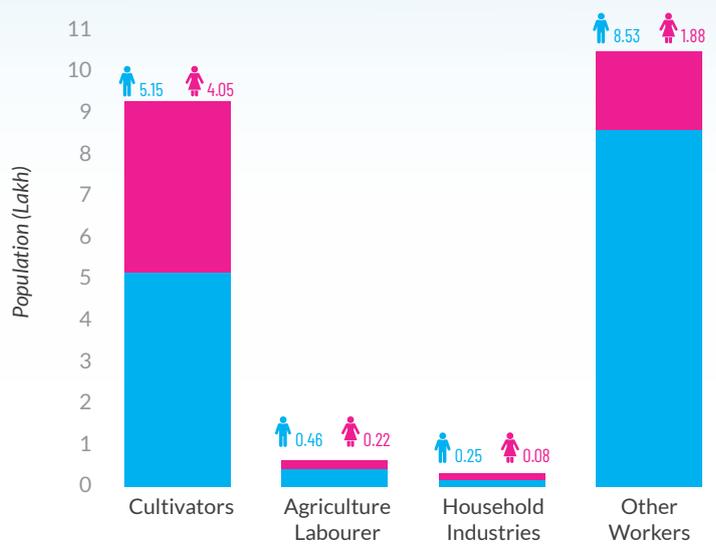
(Census of India, 2011)

Working & Non Working Population

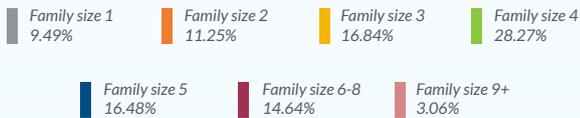
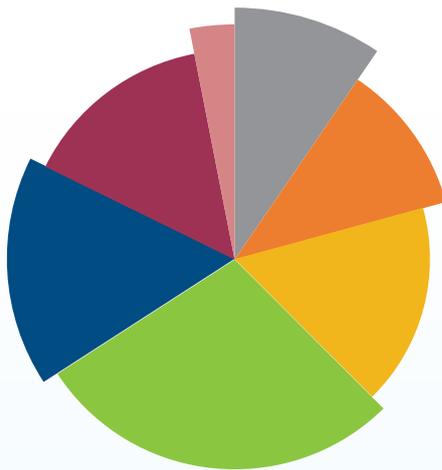


(Census of India, 2011)

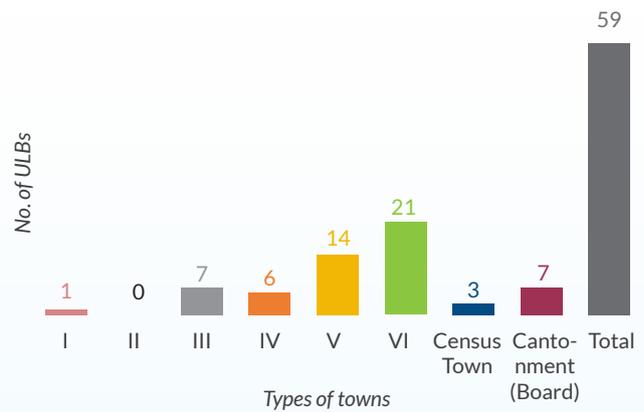
Main Workers



Family Size



Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	2	Area (sq.km.)	42.93
Population (Lakh)	2.2	Population Density (persons/sq.km.)	5124.6

Municipal Councils

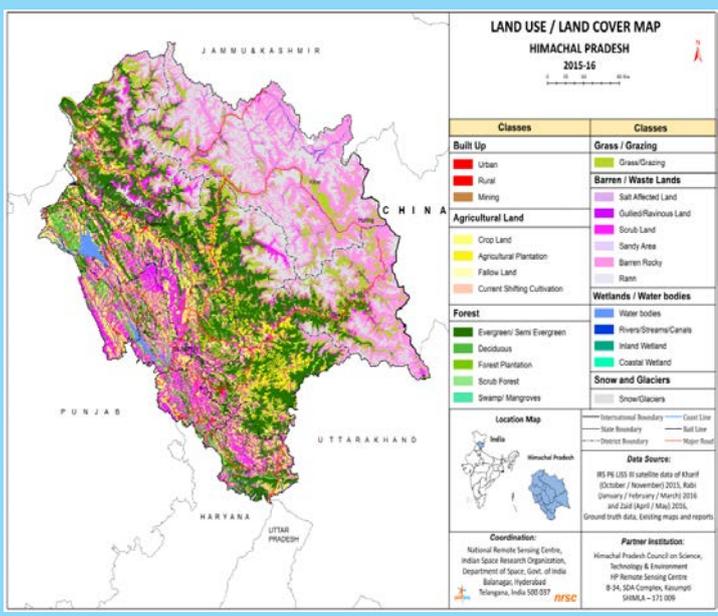
Number	31	Area (sq.km.)	168.6
Population (Lakh)	4.1	Population Density (persons/sq.km.)	2431.8

Nagar Panchayats

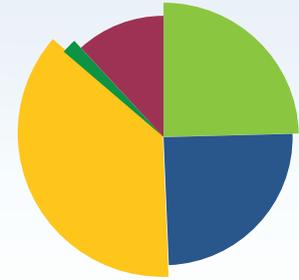
Number	21	Area (sq.km.)	68.35
Population (Lakh)	0.8	Population Density (persons/sq.km.)	1170.4

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



(ISRO, 2019)



25% Forests
25% Not under Cultivable Land
12% Net sown area
37% Uncultivable land excluding Fallow Land
2% Fallow land

Geographical Area (Thousand Hectares)	5,567
Area for Land Utilisation Statistics (Thousand Hectares)	4,577

(Ministry of Agriculture and Farmers Welfare, 2021)[1]

SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator

RANK: 3 Score: 74



PERFORMANCE BY INDICATOR

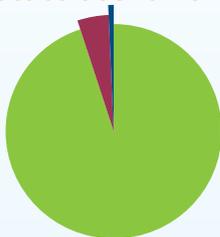
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

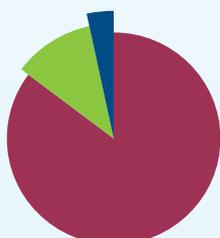
Shimla with 70% and Kullu with 77% have piped water supply, with a target of achieving 100% by end of AMRUT mission.

Indicators: ↑Highest ↓Lowest

State Scenario



Piped Water Supply 95%
Groundwater 4%
Surface Water Body 1%



Near Premises 11%
Within Premises 85%
Away 4%

Source of Water

Piped Water Supply	Groundwater	Surface Water Body
↑ Mandi 98.4%	↑ Una 12.7%	↑ Shimla 1.5%
↓ Una 86.8%	↓ Mandi 1%	↓ Bilaspur, Kangra, Solan 0.3%

Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source

Near Premises	Within Premises	Away
↑ Mandi 90.6%	↑ Una 14.7%	↑ Kangra 5.5%
↓ Una 80.6%	↓ Sirmaur 7.4%	↓ Mandi 1.3%

(Census of India, 2011)

■ Specific Cities

Access to Sanitation

The state has secured 17th rank in Swachh Survekshan 2021.

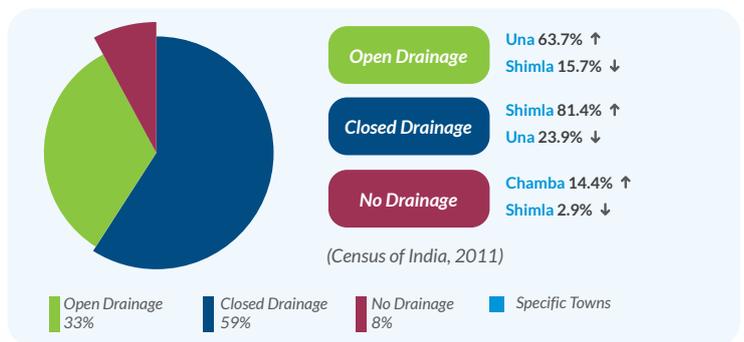
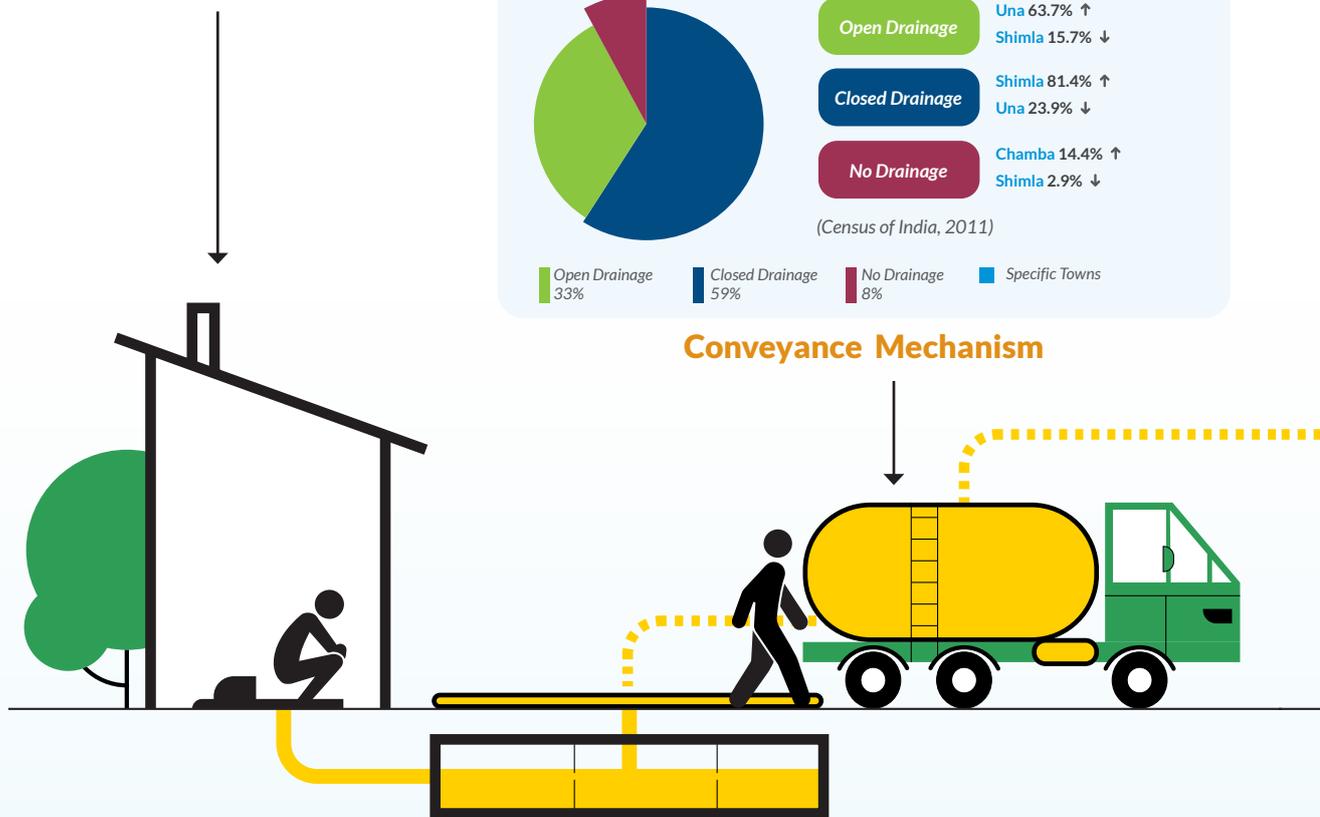
Total ULB/Cities – 68 | Individual Household Toilet Target: 11,266 | Target Achieved: 59.85%

Community/Public Toilet Target: 876 | Target Achieved: 194.06%

ODF: 61 ULBs | ODF+: 26 ULBs | ODF++: 2 ULBs

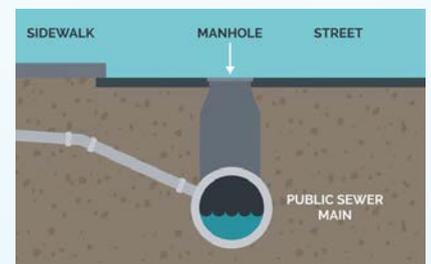
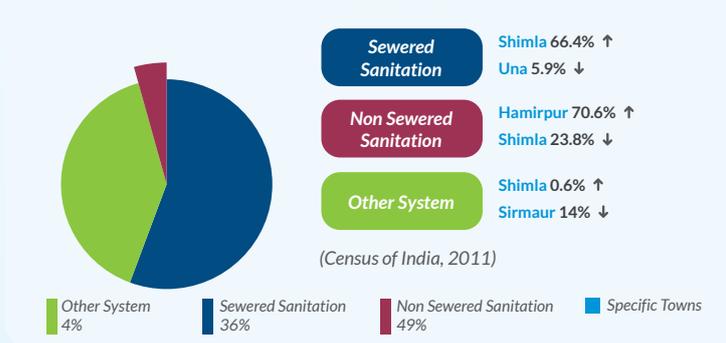


Access to Toilet



Conveyance Mechanism

Containment*



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewer or non-sewered sanitation system. Closed drainage refers to sewer sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

Total Treatment capacity:
155 MLD
Installed STP capacity:
136 MLD
Operational STP Capacity:
99 MLD

Total Sewage generation
116 MLD

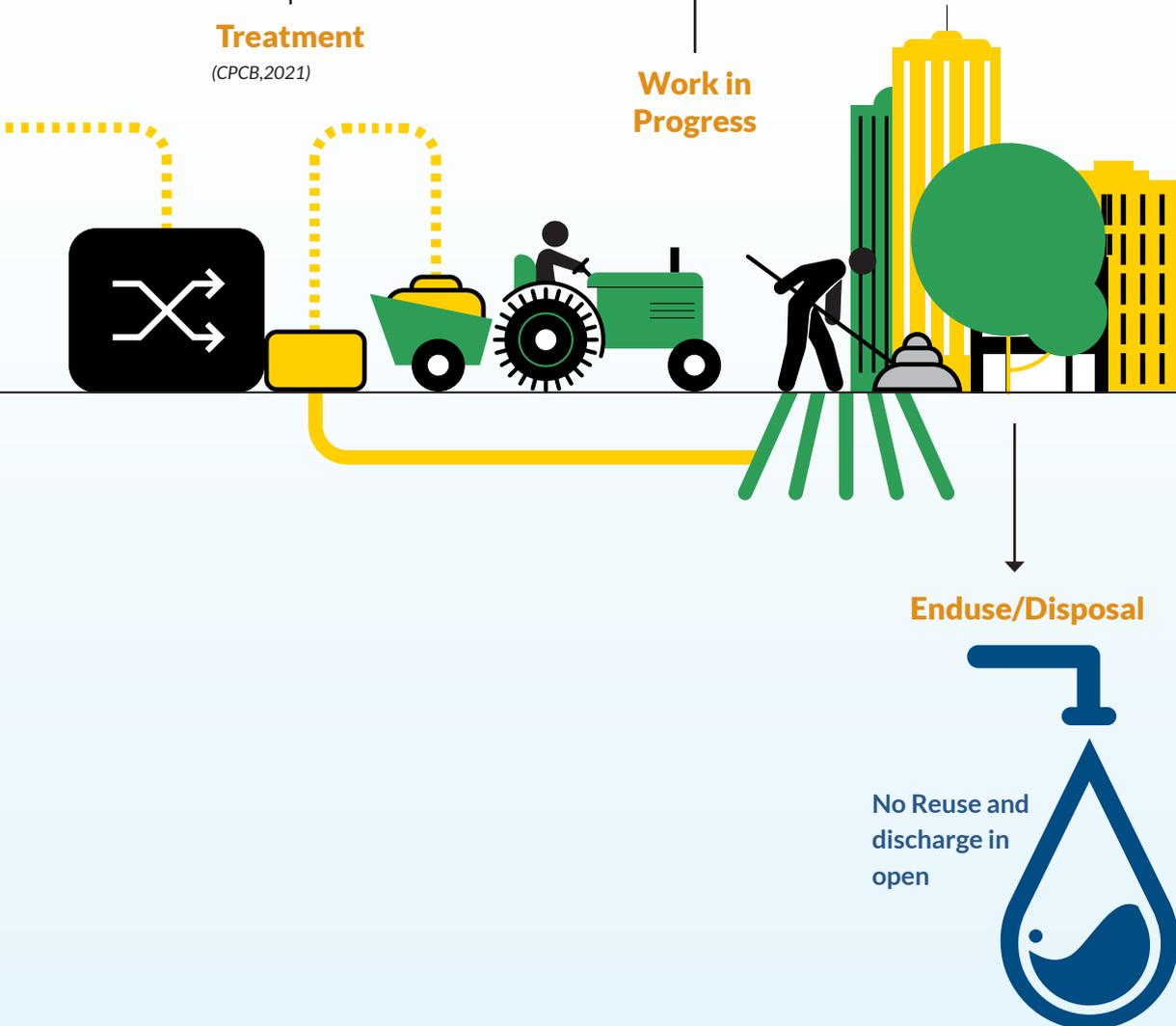
Proposed STP capacity
19 MLD

Treatment
(CPCB,2021)

Work in Progress

Enduse/Disposal

No Reuse and discharge in open



Solid Waste Management

Himachal Pradesh Dharamashala - Garbage Free City
 Rating - One star rating: 1 ULB



(SBM Urban,2022)

School Sanitation

18,039 Institutions

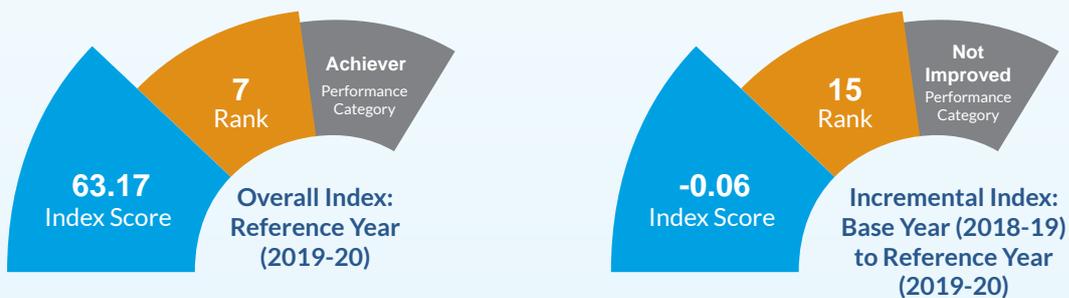
99.86% Drinking Water Facility

99.82% Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Shimla, Kullu	Dharamshala

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 304.52 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 252 crore (2021 - 2026)



(State Annual Action Plan (SAAP), Himachal Pradesh 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

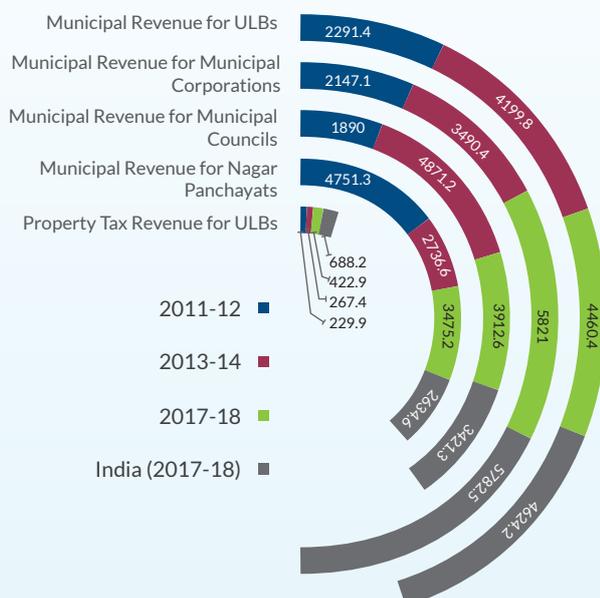
Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants – Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

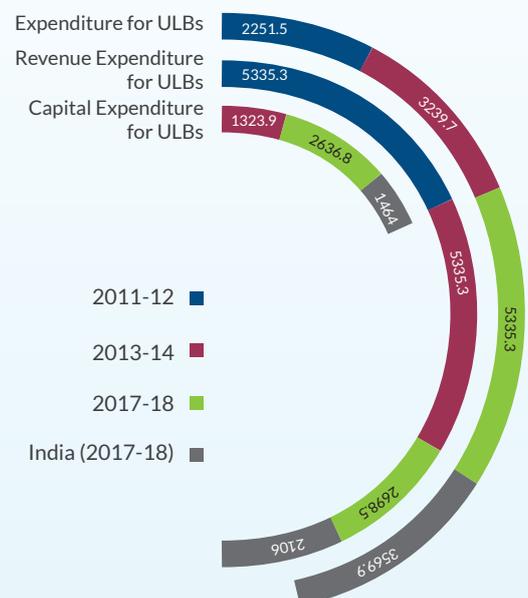
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Jammu & Kashmir

Capital	Srinagar (Summer) Jammu (Winter)
Districts	20
Area	42,241 km ²
Total Population (2011)	1,25,41,302
Density	290 persons/km ²
Elevation	2717.33 m above MSL

Source: Various

Geography

Jammu and Kashmir has a geographic area of 1,01,387 Sq. Kms. It lies between latitude from 32°17' N and 37°05' N and longitude 72°31' E and 80°20' E. It is divided into two geographic regions viz. Kashmir Valley and Jammu. The higher regions are covered by PirPanjal, Karakoram and inner Himalayan ranges of mountains. The important river systems of the UT are the Chenab, the Tawi and the Jhelum.

Climate

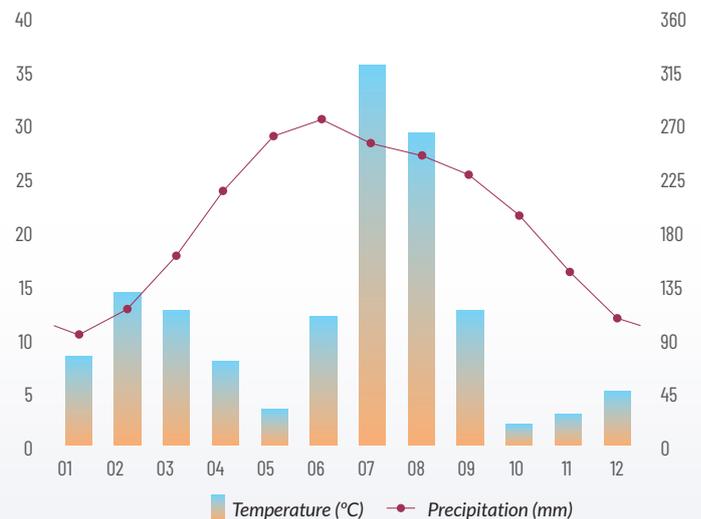
Jammu and Kashmir has a humid subtropical, dry winter climate. When compared with winter, the summers have much more rainfall. The climate of Jammu and Kashmir varies with altitude and across regions.

Yearly average temperature	25.88°C
Annual precipitation	40.73 mm
Rainy days	72.53 rainy days

Source: Various

Demography

As per census 2011, 27.38 % of the total population resides in urban areas and 72.62% resides in rural areas.



Sex Ratio



Population



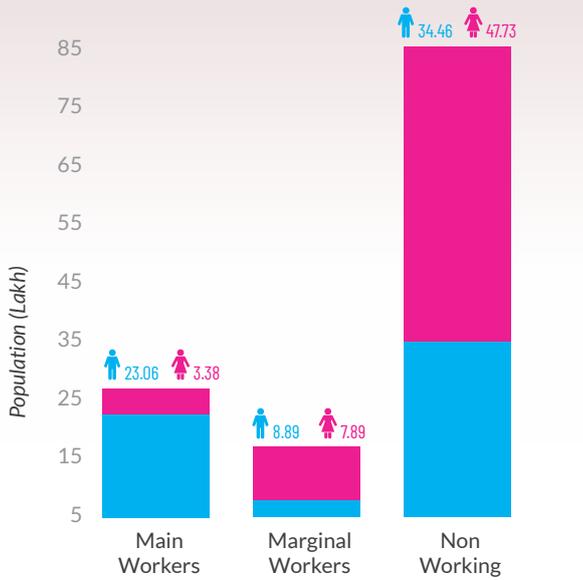
(Ministry of Health & Family Welfare, 2020)[2]

Decadal Variation



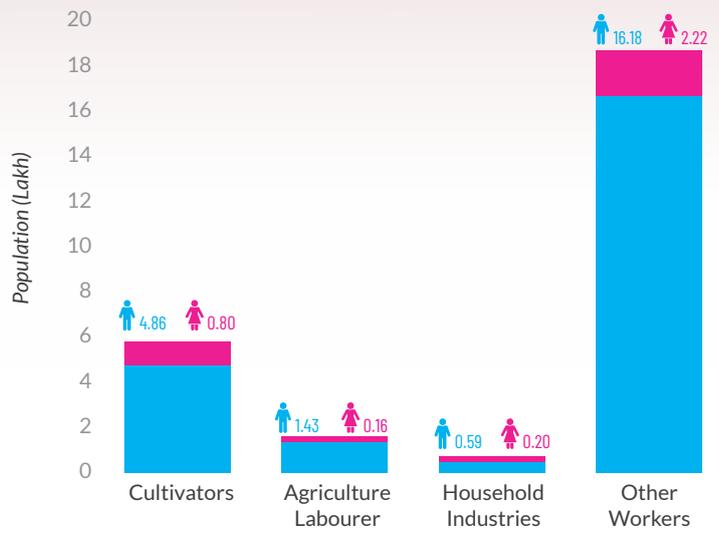
(Census of India, 2011)

Working & Non Working Population

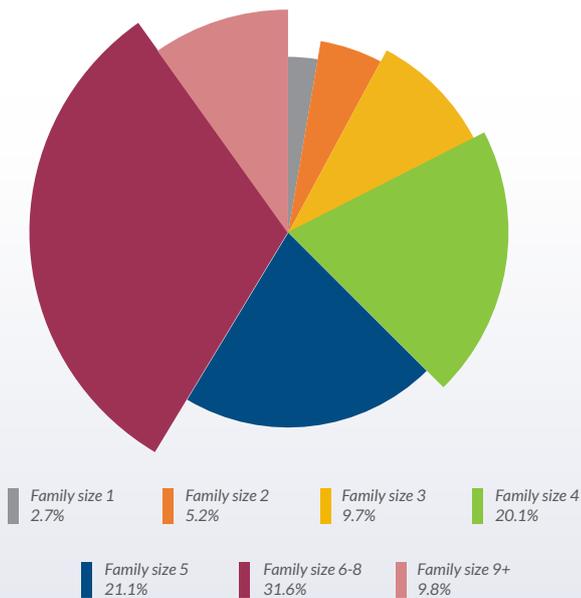


(Census of India, 2011)

Main Workers

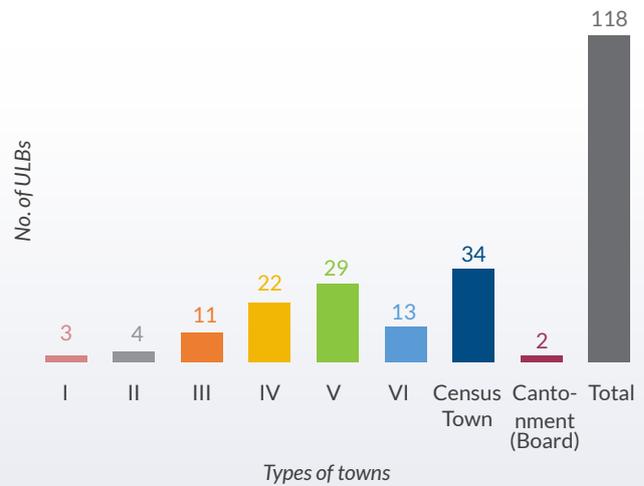


Family Size



Population range for each class of city

Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	2	Area (sq.km.)	437
Population (Lakh)	17.8	Population Density (persons/sq.km.)	4073.2

Municipal Councils

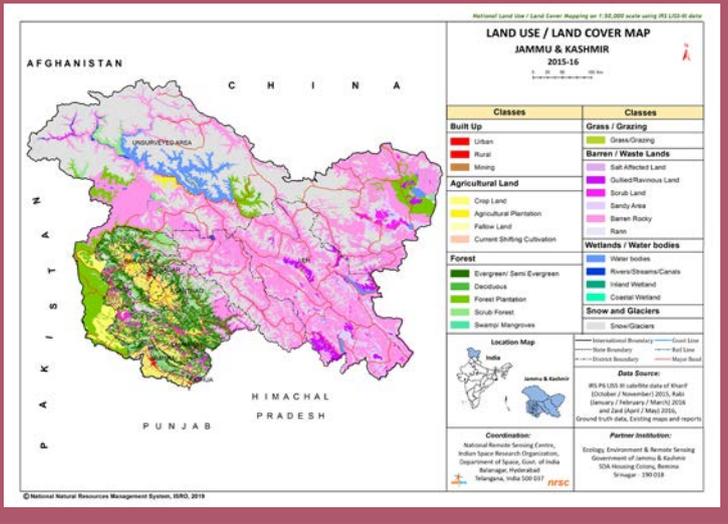
Number	76	Area (sq.km.)	453.7
Population (Lakh)	13.3	Population Density (persons/sq.km.)	2931.5

Nagar Panchayats

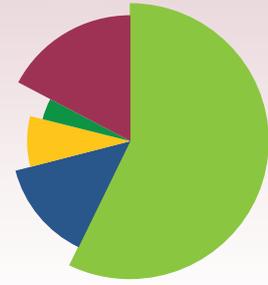
Number	0	Area (sq.km.)	0
Population (Lakh)	0	Population Density (persons/sq.km.)	0

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



(ISRO, 2019)



57% Forests
 17% Net sown area
 4% Total Fallow Lands
 14% Not under Cultivable Land
 8% Uncultivable land excluding Fallow Land

Geographical Area (Thousand Hectares)	22,224
Area for Land Utilisation Statistics (Thousand Hectares)	4,130

(Ministry of Agriculture and Farmers Welfare, 2021)[1]

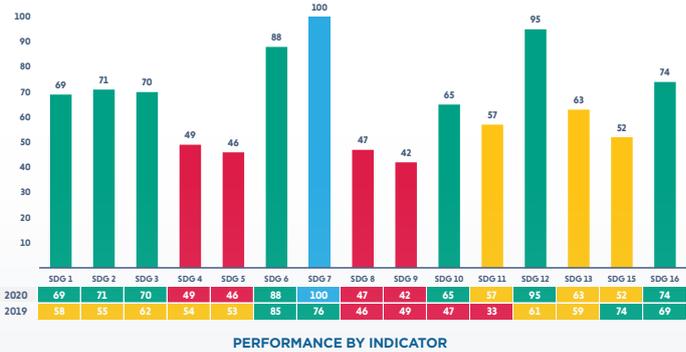
SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator

RANK: 6 Score: 66



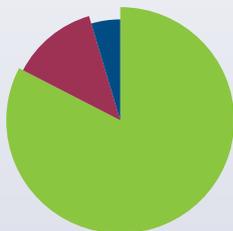
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

As per State Annual Action Plan (SAAP) 2017-2020, Srinagar has 97%, Jammu has 100%, Anantnag has 90% and Leh has 43% household with water supply according to baseline survey. It is targeted to provide water supply to 100% HHs in all the cities by the end of AMRUT Program.

Indicators: ↑ Highest ↓ Lowest

State Scenario



Piped Water Supply 83% Groundwater 13% Surface Water Body 4%

Source of Water



Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source



(Census of India, 2011)

■ Specific Cities

Near Premises 16.65% Within Premises 73.36% Away 9.99%

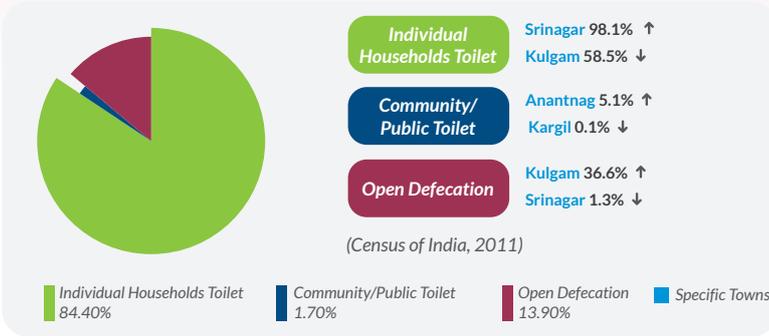
Access to Sanitation

The state has secured no rank in Swachh Survekshan 2021.

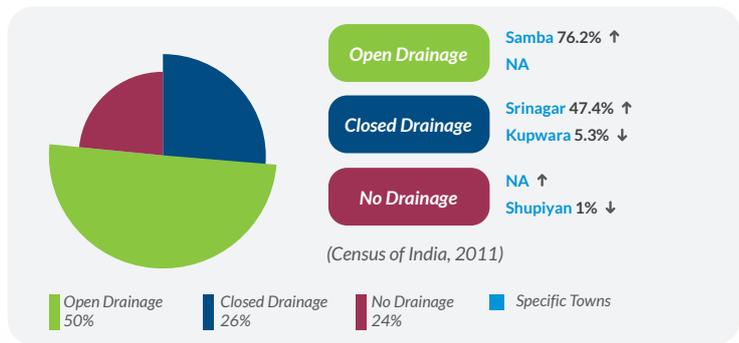
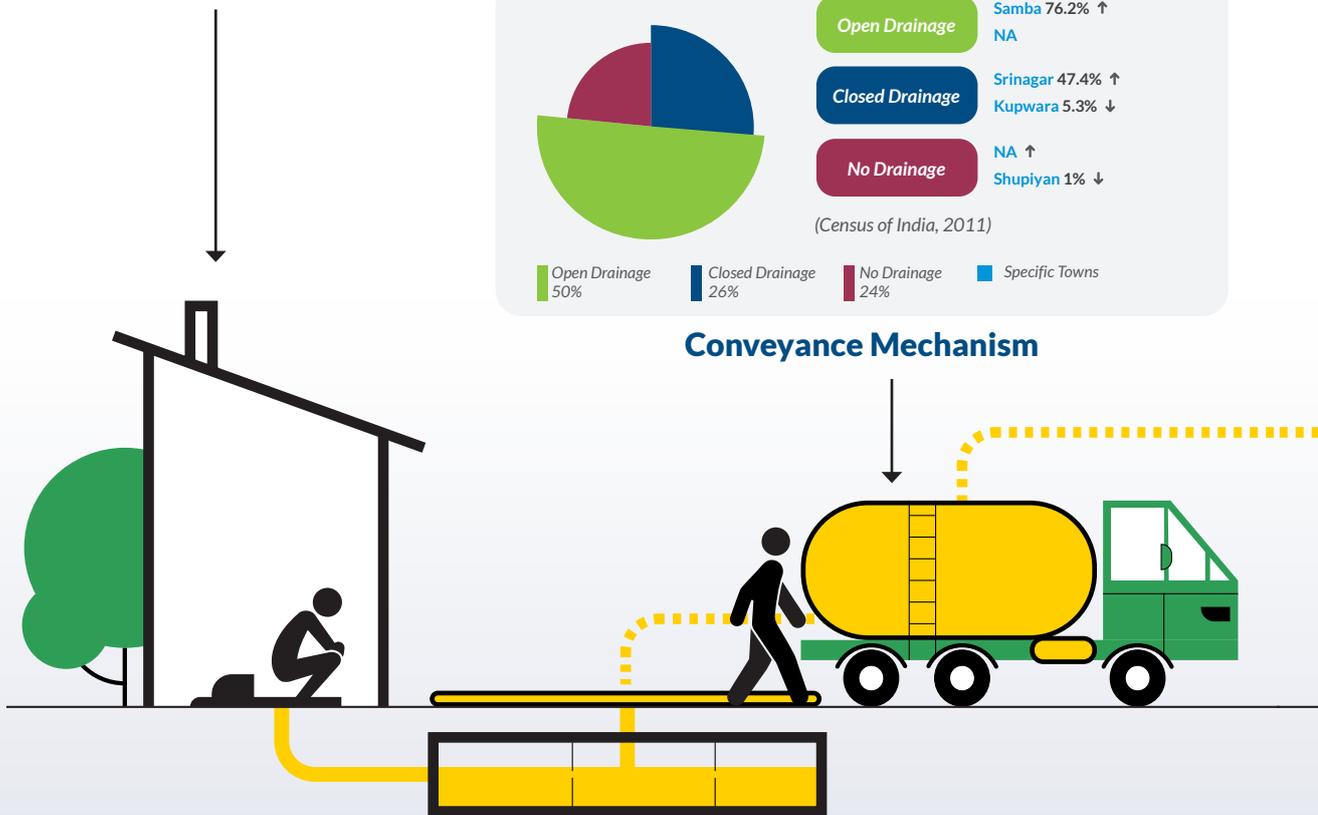
Total ULB/Cities – 80 | Individual Household Toilet Target: 59600 | Target Achieved: 86%

Community/Public Toilet Target: 3585 | Target Achieved: 96.3%

ODF: 80 ULBs | ODF+: 18 ULBs

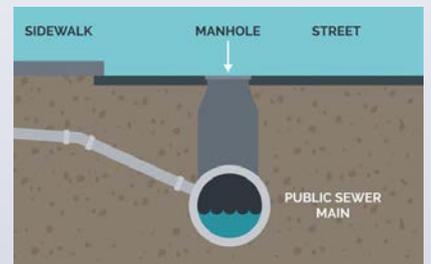
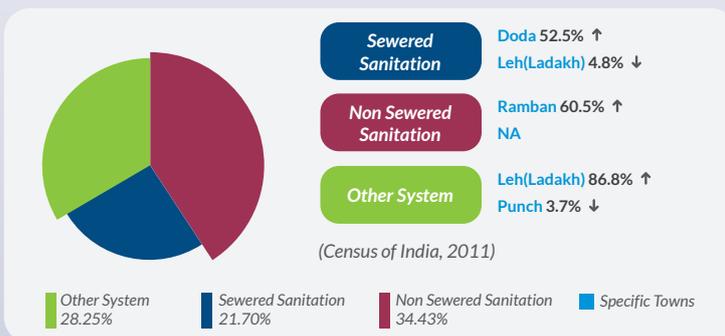


Access to Toilet



Conveyance Mechanism

Containment*



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewerage or non-sewerage sanitation system. Closed drainage refers to sewerage sanitation system. Open drainage refers to non-sewerage sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

Total Treatment capacity:
222 MLD
Installed STP capacity:
218 MLD
Operational STP Capacity:
93 MLD
FSTP Capacity
242 KLD

Total Sewage generation
665 MLD

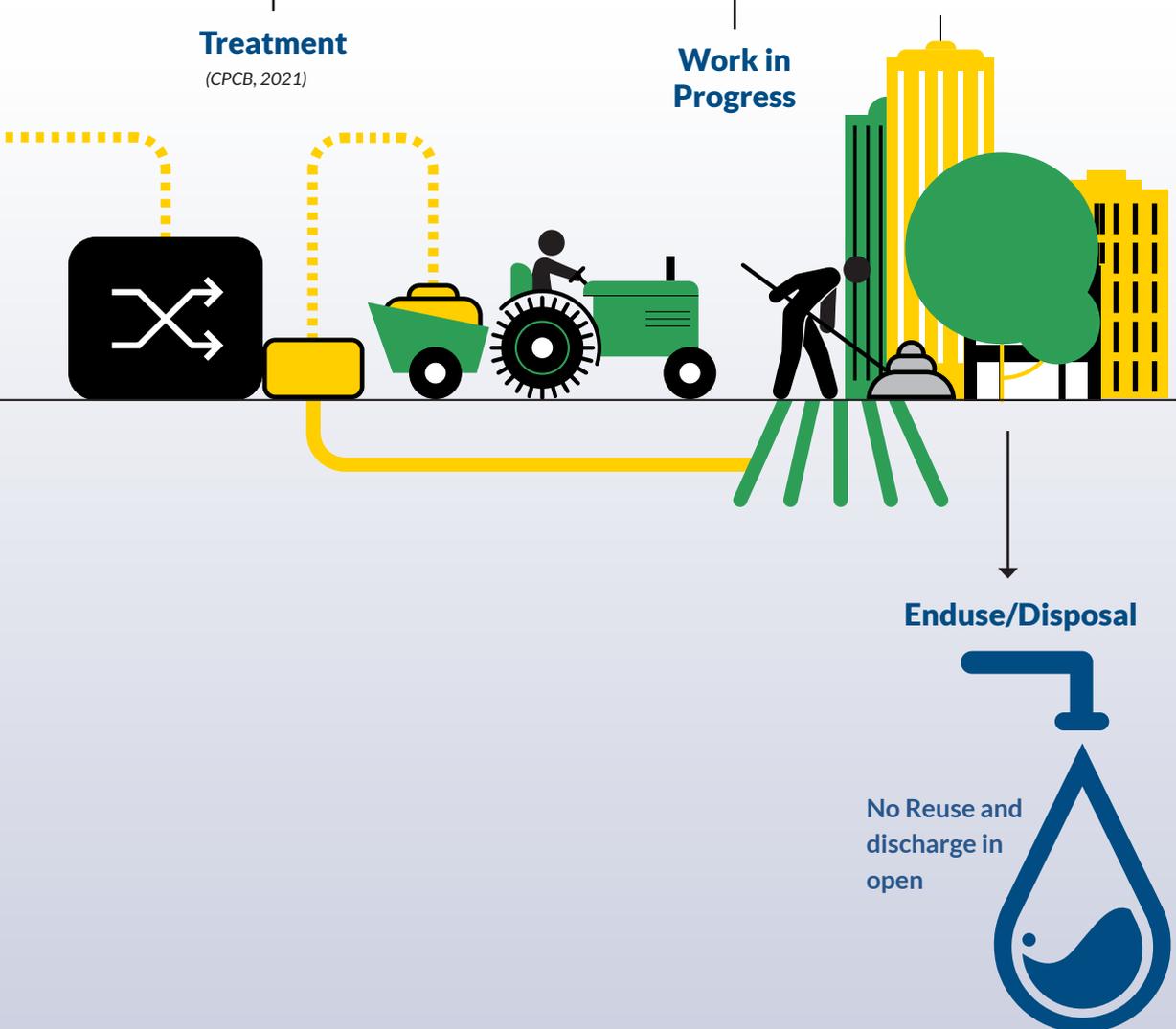
Proposed STP capacity
4 MLD

Treatment
(CPCB, 2021)

Work in Progress

Enduse/Disposal

No Reuse and discharge in open



Solid Waste Management

No Garbage Free City



(SBM Urban,2022)

School Sanitation

29,092 Institutions

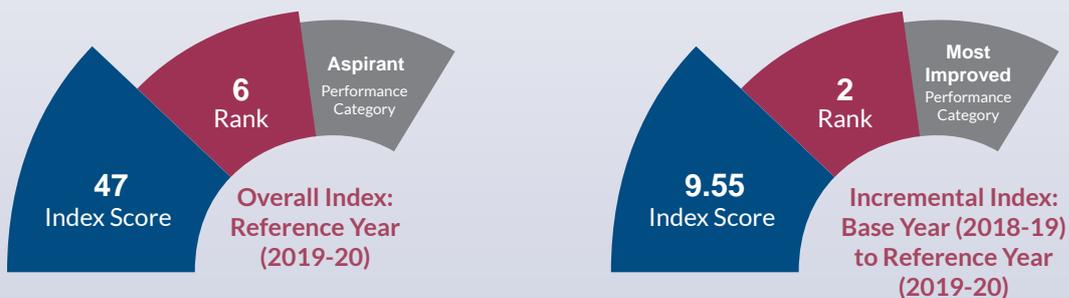
92.35% Drinking Water Facility

95% Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Anantnag, Jammu, Kargil, Leh, Ladakh, Srinagar	Srinagar, Jammu

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 593.05 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 856 crore (2021 - 2026)



(State Annual Action Plan (SAAP), J&K 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)

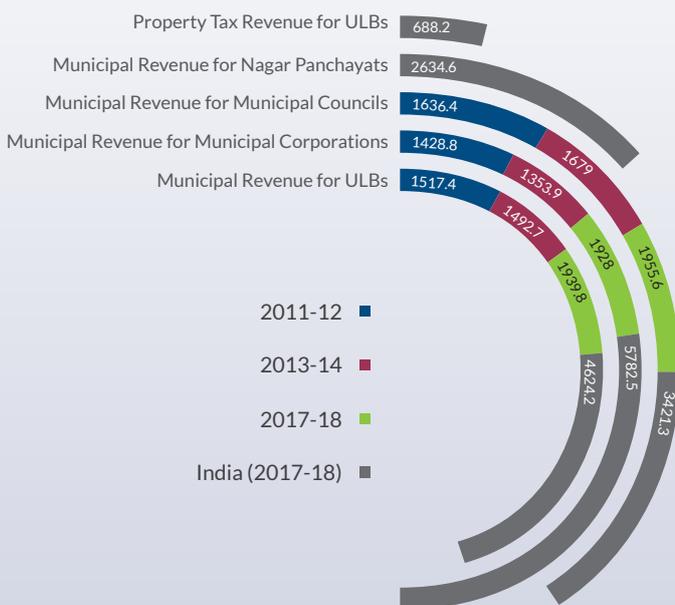
As per 15th Finance commission report, no grant has been allotted to Jammu and Kashmir under 15th finance commission for year 2021-2026.

The share of states in the centre's taxes is recommended to be decreased from 42% during the 2015-20 period to 41% for 2020-21. The 1% decrease is to provide for the newly formed union territories of Jammu and Kashmir, and Ladakh from the resources of the central government under the devolution of taxes to states.

(15th Finance Commission Report for 2021-26)[6]

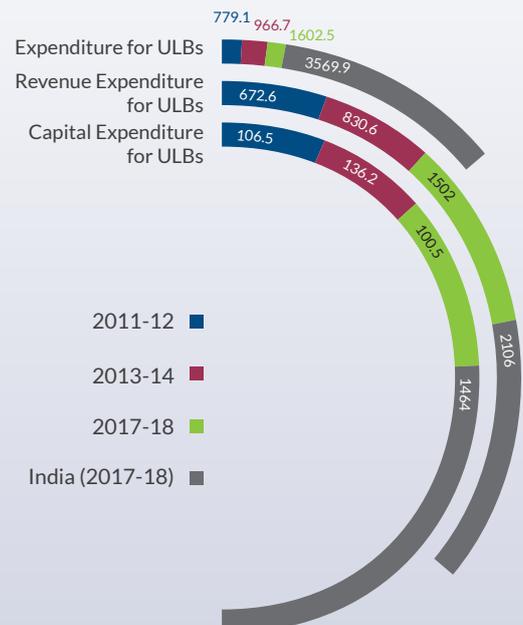
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Ladakh

Capital	Leh & Kargil
Districts	2
Area	59,146 km ²
Total Population (2011)	2,74,289
Density	4.64 persons/km ²
Elevation	4,308.61 m above MSL

Source: Various

Geography

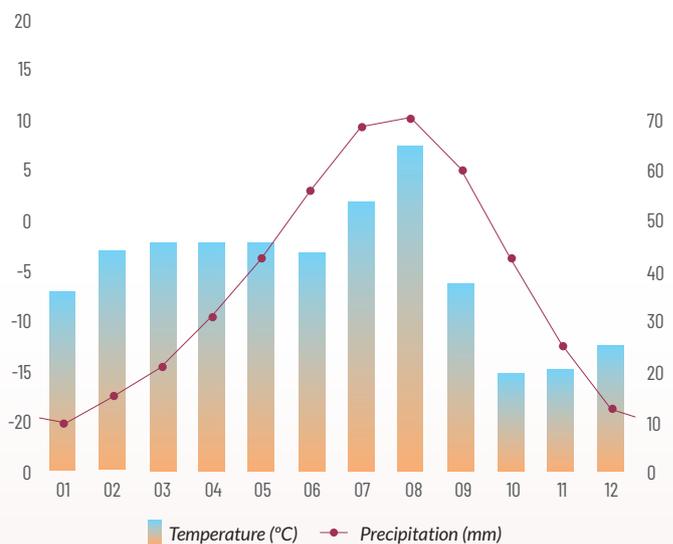
Ladakh is a region administered by India as a Union Territory since October 2019. Ladakh is bordered by the Tibet Autonomous Region to the east, the Indian state of Himachal Pradesh to the south, both the Indian-administered union territory of Jammu and Kashmir and the Pakistan-administered Gilgit-Baltistan to the west, and the southwest corner of Xinjiang across the Karakoram Pass in the far north. It extends from the Siachen Glacier in the Karakoram range to the north to the main Great Himalayas to the south.

Climate

Ladakh has a subarctic, dry winter, cool summer climate.

Yearly average temperature	-10.6°C
Annual precipitation	80-120 mm/year
Rainy days	113.63 rainy days

Source: Various



Municipal Corporations		
Number	0	Area (sq.km.) 0
Population (Lakh)	0	Population Density (persons/sq.km.) 0

Municipal Councils		
Number	2	Area (sq.km.) 18.08
Population (Lakh)	0.47	Population Density (persons/sq.km.) 26.10

Nagar Panchayats		
Number	0	Area (sq.km.) 0
Population (Lakh)	0	Population Density (persons/sq.km.) 0

Census 2011

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Leh Ladakh	-

Total AMRUT 2.0 Budget: INR 124 crore (2021 - 2026)

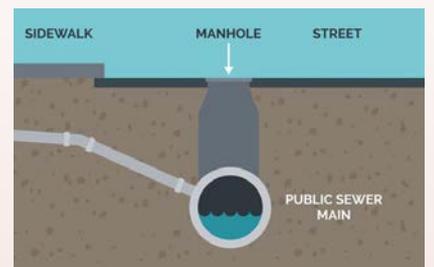
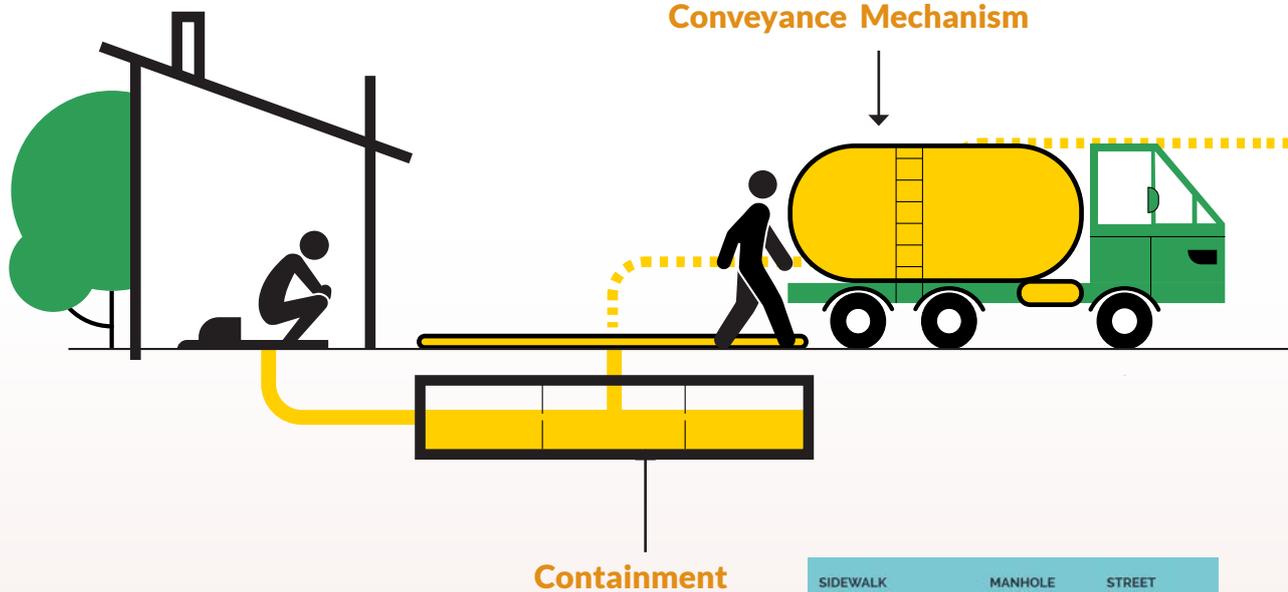
15th Finance Commission for 2021-26 Grants to State (in Rs Crore)

The adjustment of 1% is to provide for the newly formed union territories of Jammu and Kashmir, and Ladakh from the resources of the centre.

(15th Finance Commission Report for 2021-26)[2]

Access to Toilet

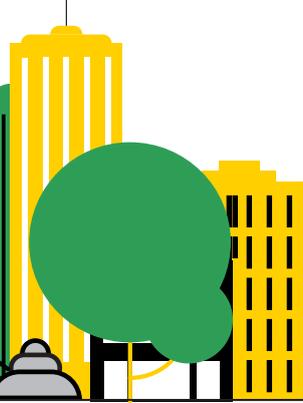
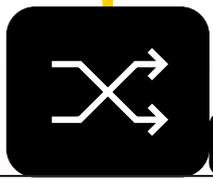
Conveyance Mechanism



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewer or non-sewered sanitation system. Closed drainage refers to sewer sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

STP capacity:
3 MLD
FSTP Capacity:
22 KLD

Treatment
(CPCB,2021)



Enduse/Disposal



No Reuse and
discharge in
open

Access to Sanitation

The state has achieved 0 ranks in Swachh Survekshan 2021.

Total ULB/Cities – 2

Individual Household Toilet Target: 400| Target Achieved: 100 %

Community/Public Toilet Target: 194| Target Achieved: 100 %

ODF: 2 ULBs

Solid Waste Management

No Garbage Free City



Manipur

Capital	Imphal
Districts	16
Area	22,327 km ²
Hilly area	19,768 km ²
Valley region	2,559 km ²
Total Population (2011)	28,55,794
Density	128 persons / km ²
Elevation	790 m above MSL

Source: Various



Geography

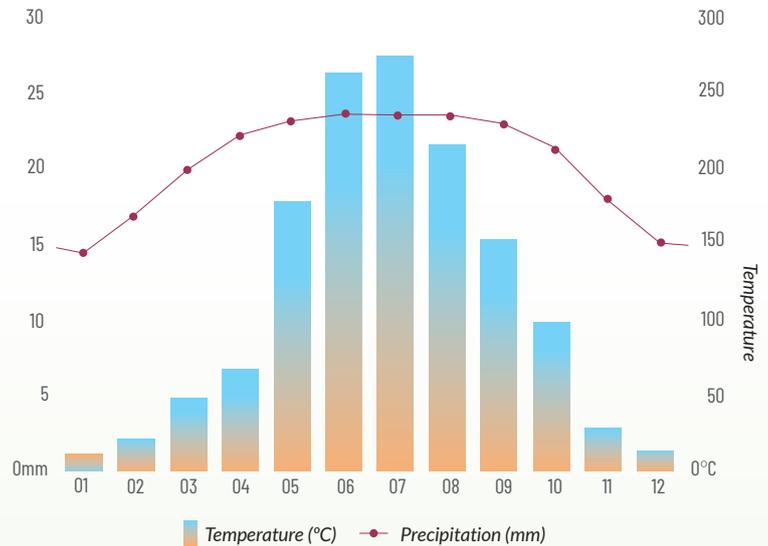
The state capital lies in an oval-shaped valley of approximately 2,000 km², surrounded by mountains. The slope of the valley is from north to south towards Loktak Lake which is the largest freshwater lake in South Asia.

Climate

The mountain ranges create a moderate climate, preventing the cold winds from the north from reaching the valley and barring cyclonic storms. Manipur has a humid subtropical, dry winter climate.

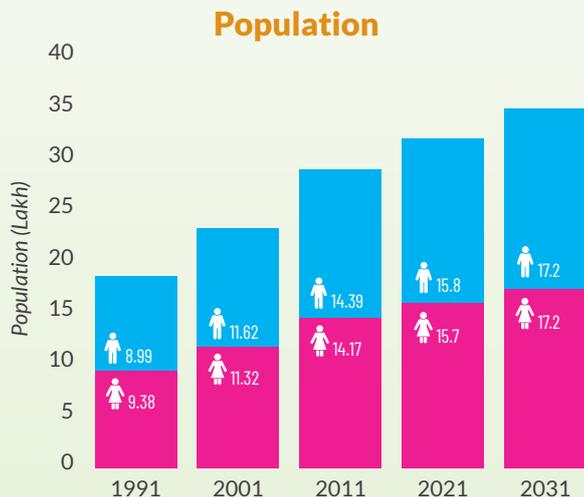
Yearly average temperature	21.77°C
Annual precipitation	110.92 mm
Rainy days	161.2 rainy days

Source: Various

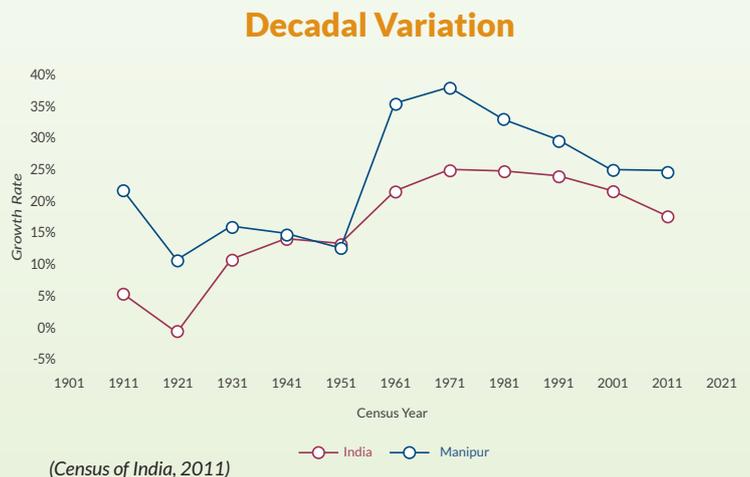


Demography

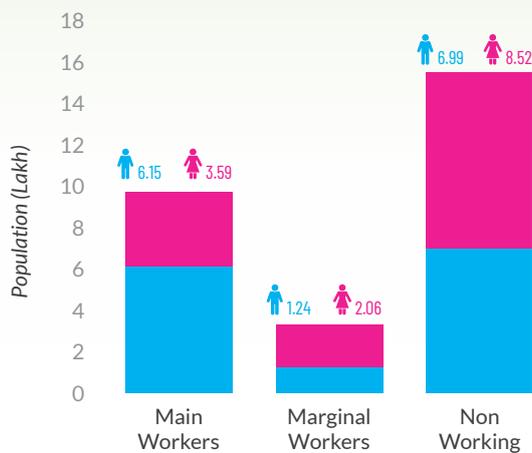
As per census 2011, 70.79% of the total population resides in urban areas and 29.21% resides in rural areas.



(Ministry of Health & Family Welfare, 2020)[2]

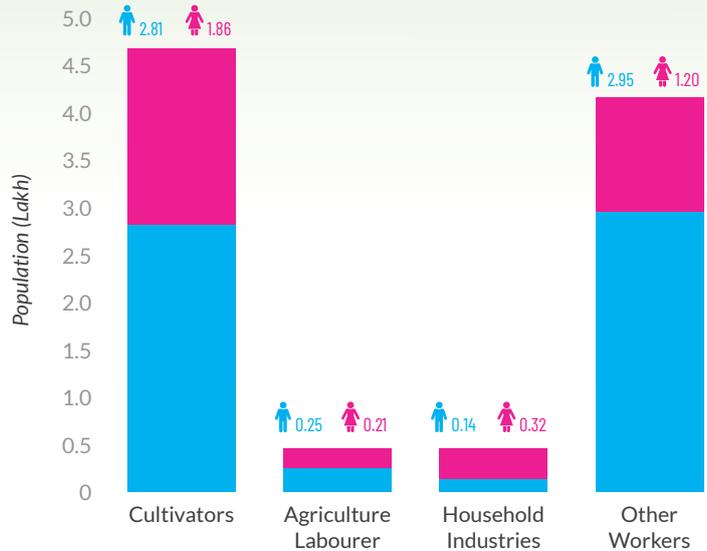


Working & Non Working Population

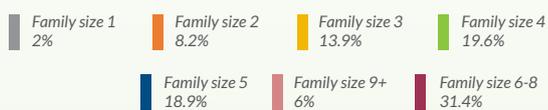
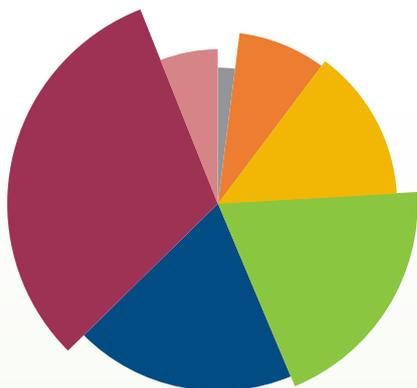


(Census of India, 2011)

Main Workers

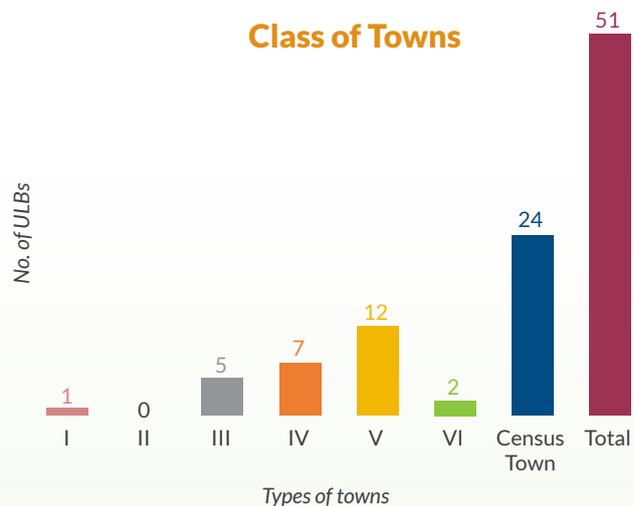


Family Size



Population range for each class of city

Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	1	Area (sq.km.)	29.57
Population (Lakh)	2.7	Population Density (persons/sq.km.)	9131

Municipal Councils

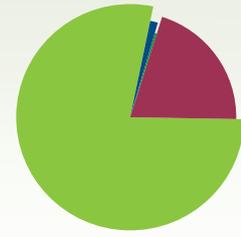
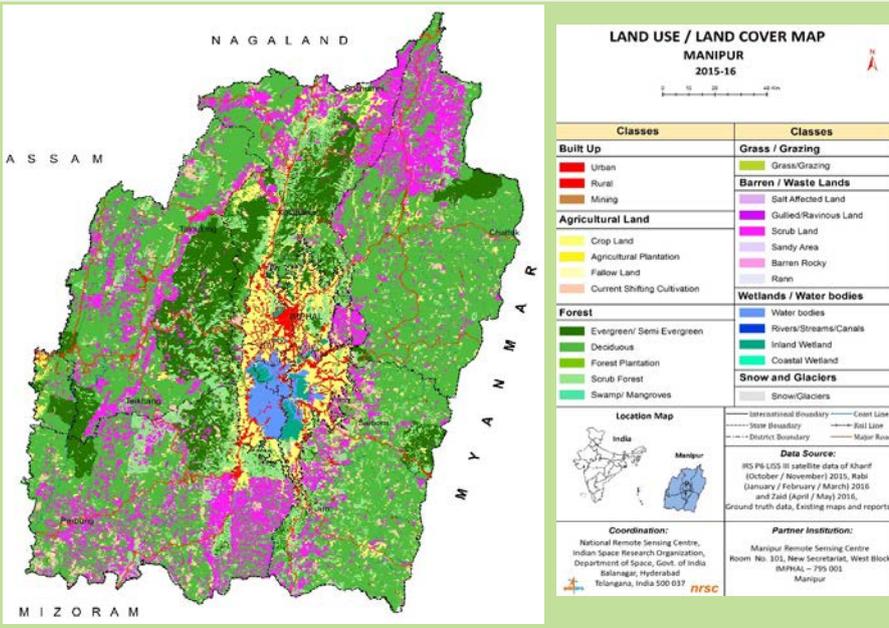
Number	21	Area (sq.km.)	180.89
Population (Lakh)	3.1	Population Density (persons/sq.km.)	1714

Nagar Panchayats

Number	5	Area (sq.km.)	21
Population (Lakh)	0.4	Population Density (persons/sq.km.)	1905

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



78% Forests
 1.2% Not under Cultivable Land
 20.4% Net sown area
 0.4% Fallow Land
 0% Uncultivable land excluding Fallow Land

Geographical Area (Sq. Km.)	2,233
Area for Land Utilisation Statistics (Sq. Km.)	2,161

(Ministry of Agriculture and Farmers Welfare, 2021)[1]

(ISRO, 2019)

SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator

RANK: 16 Score: 64



PERFORMANCE BY INDICATOR

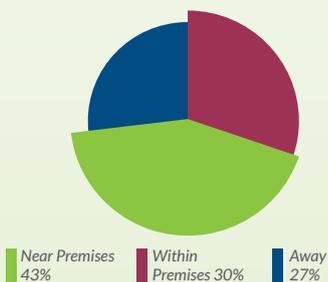
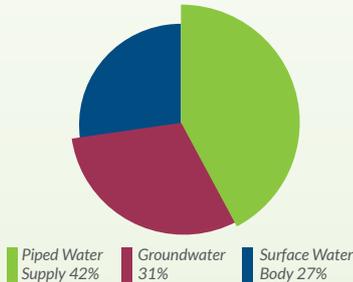
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

Imphal is the only AMRUT city in the project having piped water supply of 127.89 Km.

Indicators: ↑Highest ↓Lowest

State Scenario



Source of Water

Piped Water Supply	Groundwater	Surface Water Body
↑ Imphal West 72.8%	↑ Churachandpur 81.8%	↑ Thoubal 61.3%
↓ Churachandpur 8.7%	↓ Bishnupur 3.4%	↓ Chandel 4.7%

Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source

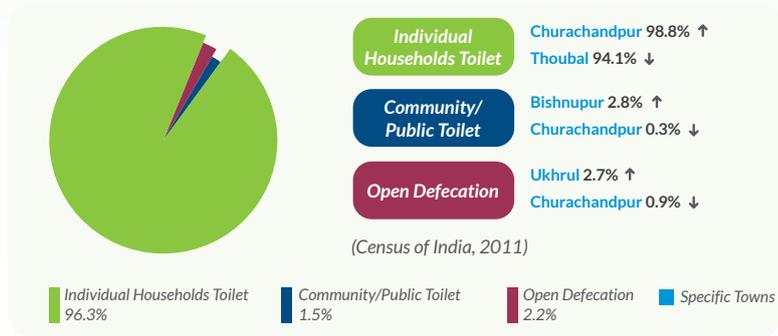
Near Premises	Within Premises	Away
↑ Senapati 56%	↑ Chandel 47.4%	↑ Thoubal 44.2%
↓ Imphal West 28.3%	↓ Thoubal 8.4%	↓ Churachandpur 16.5%

(Census of India, 2011)

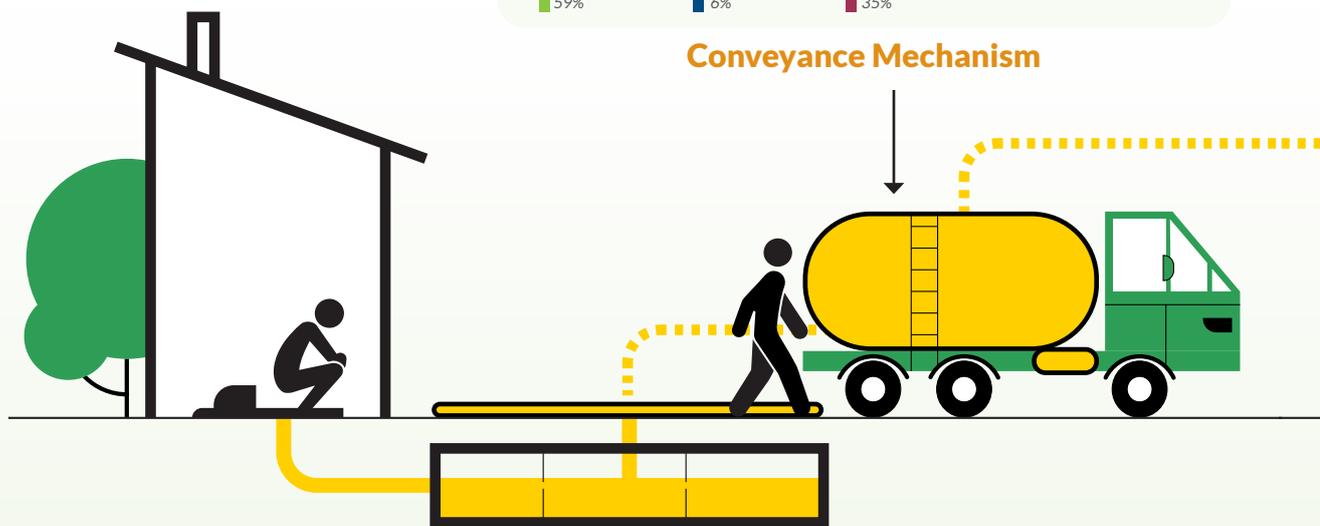
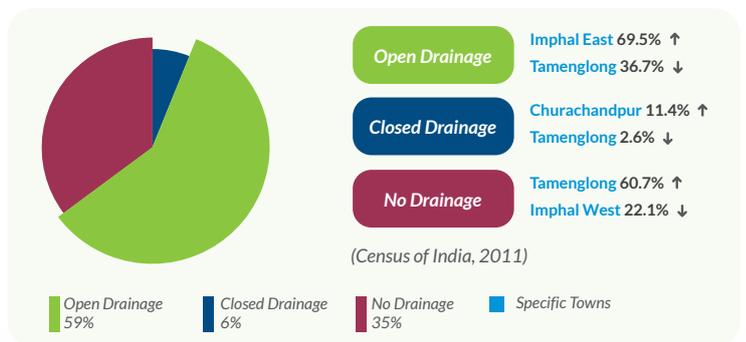
■ Specific Cities

Access to Sanitation

The state has secured 21st rank in Swachh Survekshan 2021.
 Individual Household Toilet Target: 43,644 | Target Achieved: 89.90%
 Community/Public Toilet Target: 620 | Target Achieved: 93.71%
 ODF: 27 ULBs | ODF+: 10 ULBs

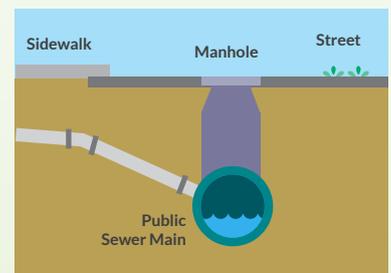
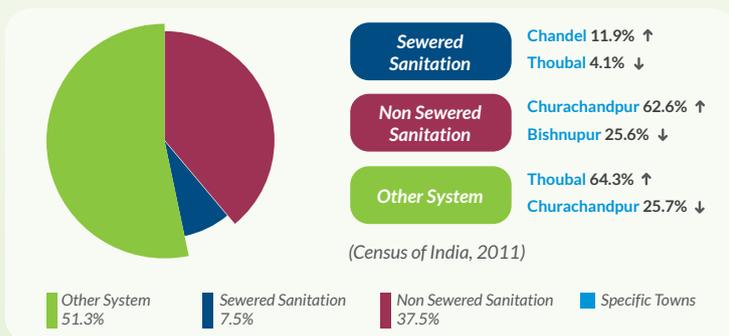


Access to Toilet



Conveyance Mechanism

Containment*



Notes- Non sewered sanitation means households having toilets connected to septic tank, Sewered sanitation means households having toilets connected to an underground (piped or otherwise) drainage system and other system refers to all the onsite sanitation systems without septic tank such as pit latrines etc.

*Attributing percentage of Individual Household Toilet

Installed Capacity
27 MLD (Extended Aeration)
Under Construction STP Capacity
16 MLD (MBBR) + 1 MLD (MBBR)
Planned STP Capacity
49 MLD

Source: State Government of Manipur, 2022

No Functional Treatment Plant Available

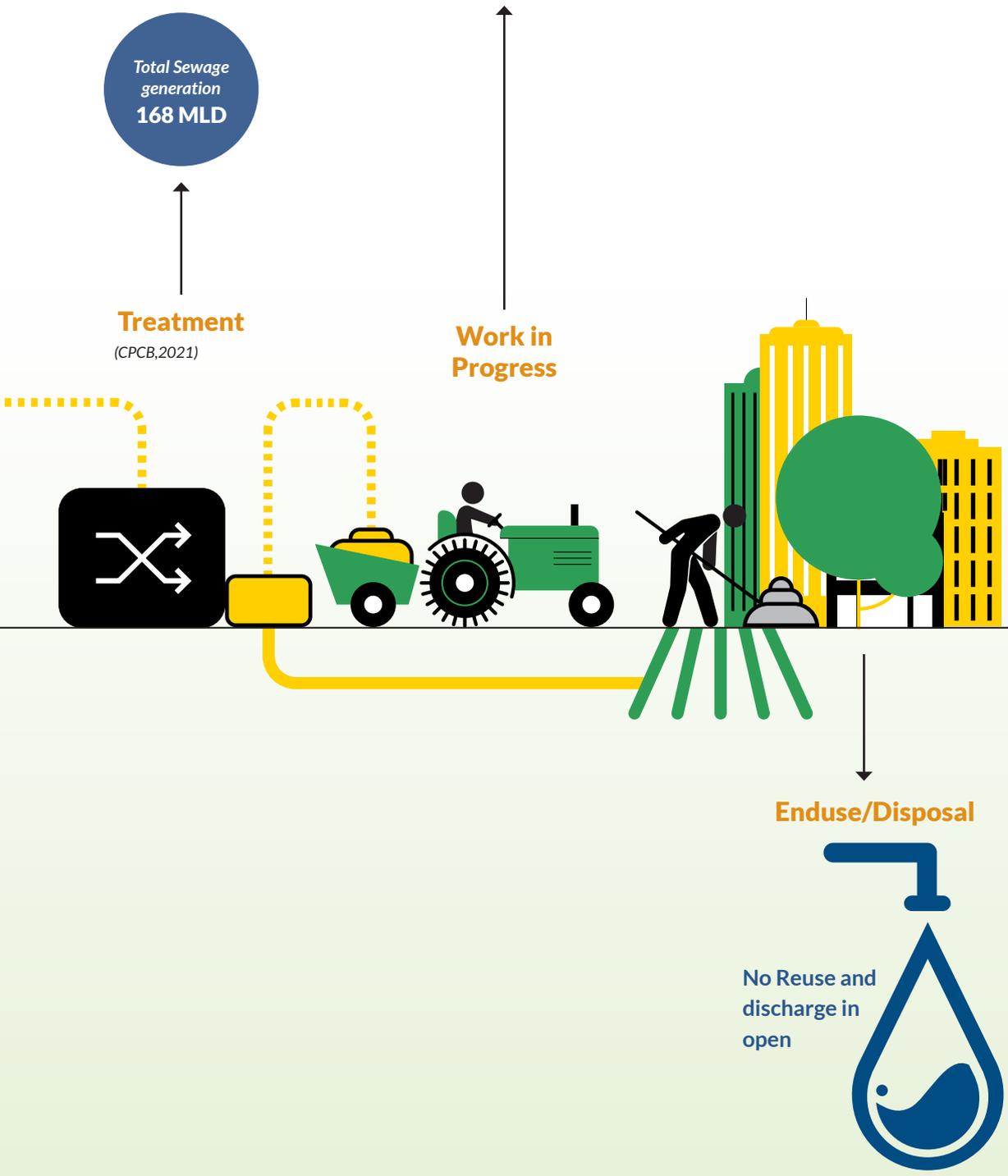
Total Sewage generation 168 MLD

Treatment (CPCB, 2021)

Work in Progress

Enduse/Disposal

No Reuse and discharge in open



Solid Waste Management

Manipur → **Garbage Free City**
 Rating - One star rating: 1 ULB



93% Collected Waste gets processed scientifically.



(SBM Urban,2022)

School Sanitation

4,993 Institutions

99.60% Drinking Water Facility

98.70% Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Imphal	Imphal

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1 Budget: INR 180.32 crore

Total AMRUT 2 Budget: INR 169 crore



(State Annual Action Plan (SAAP), Manipur 2015-16) [5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26) [6]

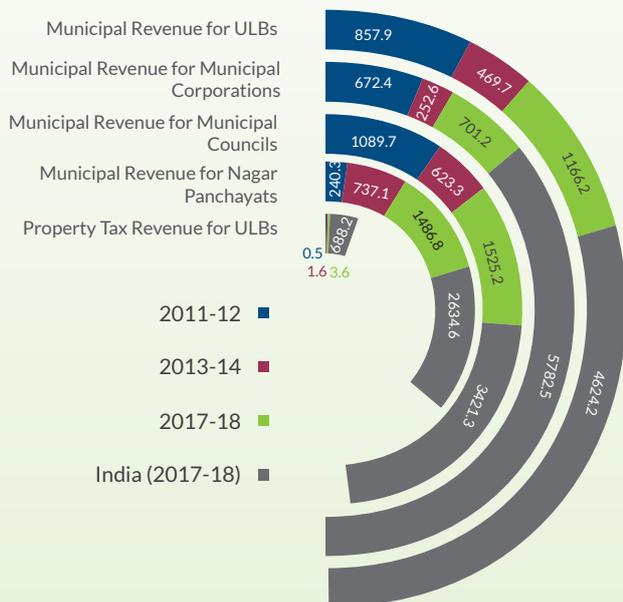
Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants – Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

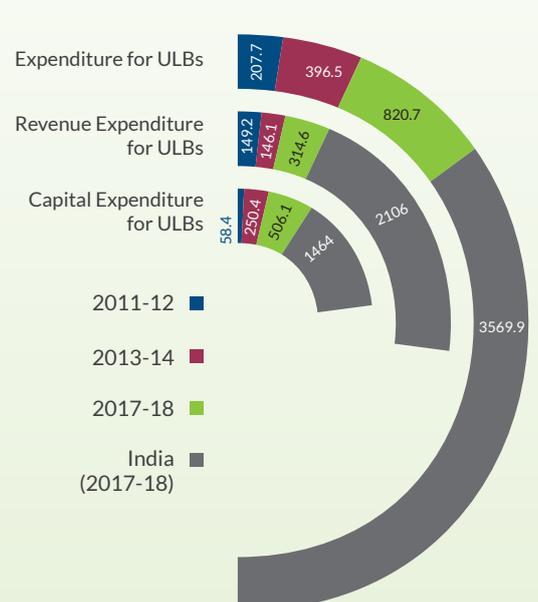
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019) [3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019) [3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Housing and Urban Affairs "Swachh Bharat Mission Urban ," no. June, p. 0, 2021, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2015-16," 2016.
- [6] Gol, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [7] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [8] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Meghalaya

Capital	Shillong
Districts	12
Area	22,429 km ²
Total Population (2011)	2,966,889
Density	132.3 persons/km ²
Elevation	1,527.63 m above MSL

Source: Various



Geography

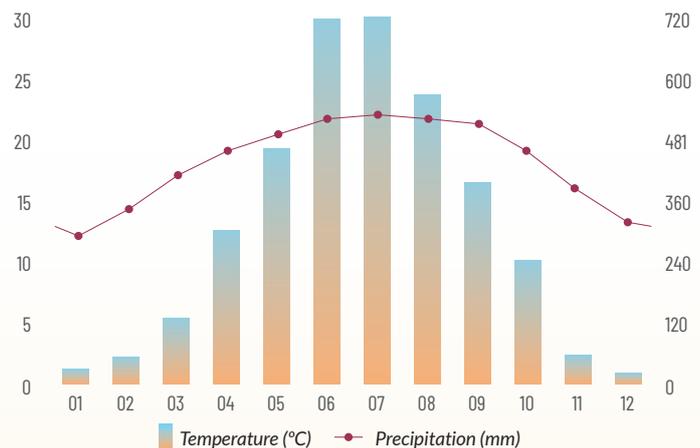
Meghalaya is in the hilly region of eastern sub-Himalayas. The State of Meghalaya is situated in North East India. It is situated on the north of Goalpara, Kamrup and Nagaon districts, on the east by Karbi Anglong and North Cachar Hills districts, all of Assam, and on the south and west by Bangladesh.

Climate

Meghalaya has a humid subtropical, dry winter climate. Meghalaya is the wettest place on the Earth.

Yearly average temperature	19.06°C
Annual precipitation	301.2 mm
Rainy days	236.74 rainy days

Source: Various

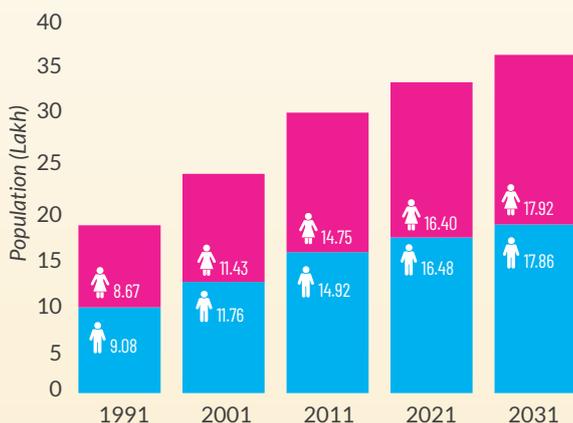


Demography

As per census 2011, 20.07 % of the total population resides in urban areas and 79.93 % resides in rural areas.

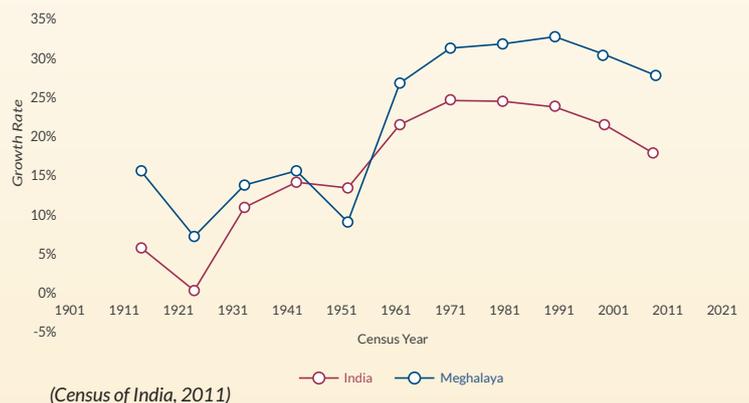


Population



(Ministry of Health & Family Welfare, 2020)[2]

Decadal Variation

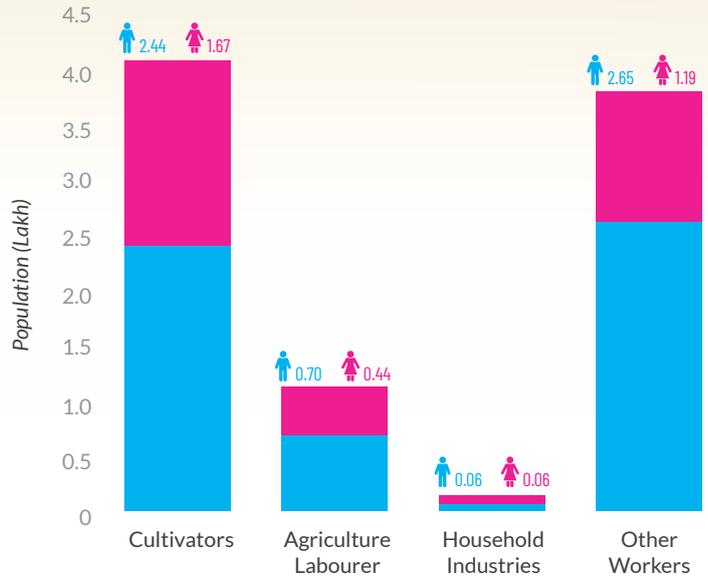


(Census of India, 2011)

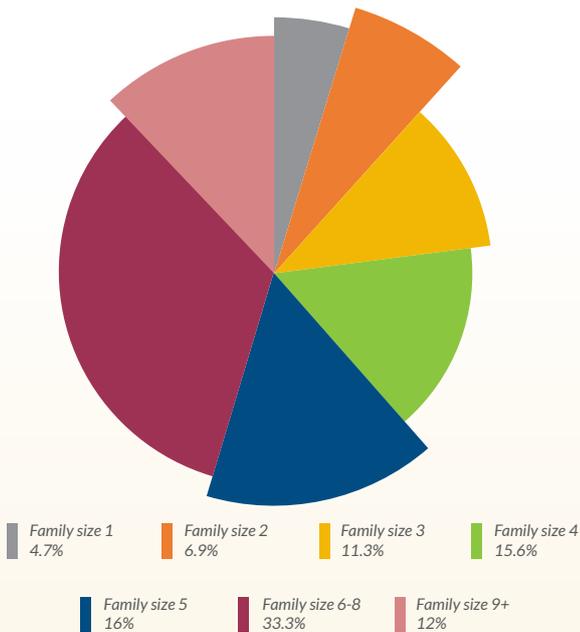
Working & Non Working Population



Main Workers

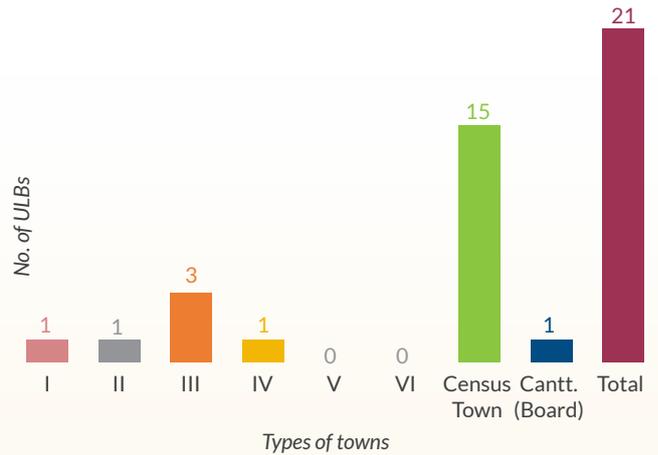


Family Size



Population range for each class of city

Class of Towns



Urban Local Body (ULB)

Municipal Corporations

Number	0	Area (sq.km.)	0
Population (Lakh)	0	Population Density (persons/sq.km.)	0

Municipal Councils

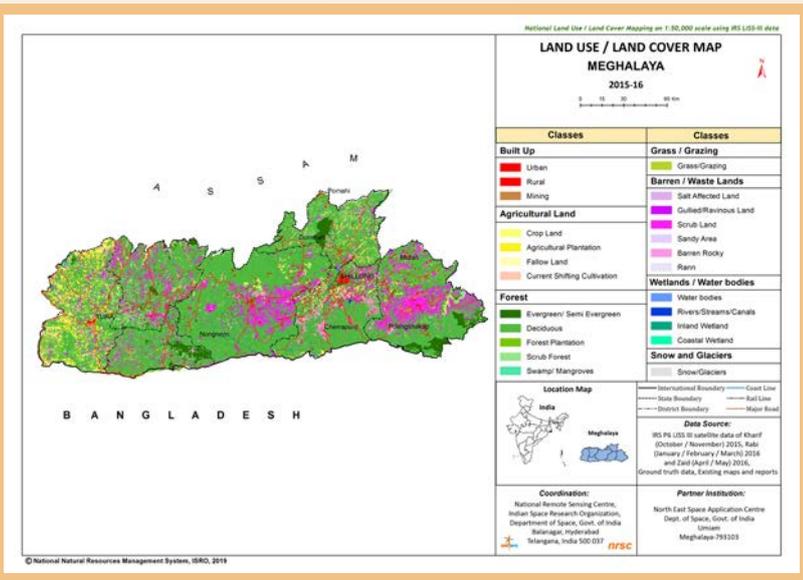
Number	6	Area (sq.km.)	62
Population (Lakh)	3	Population Density (persons/sq.km.)	4,838

Nagar Panchayats

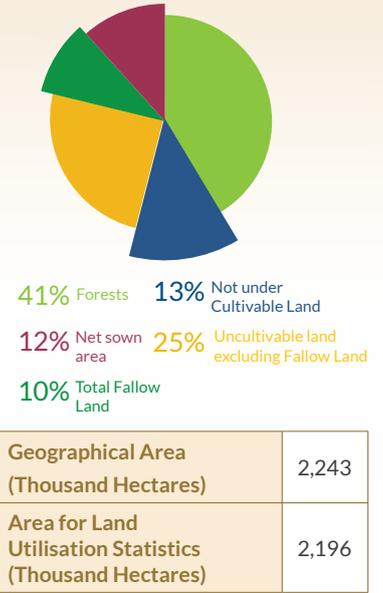
Number	0	Area (sq.km.)	0
Population (Lakh)	00	Population Density (persons/sq.km.)	0

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



(ISRO, 2019)



(Ministry of Agriculture and Farmers Welfare, 2021)[1]

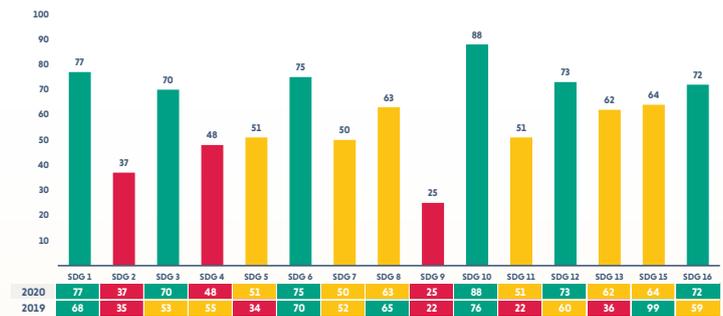
SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator

RANK: 23 Score: 60



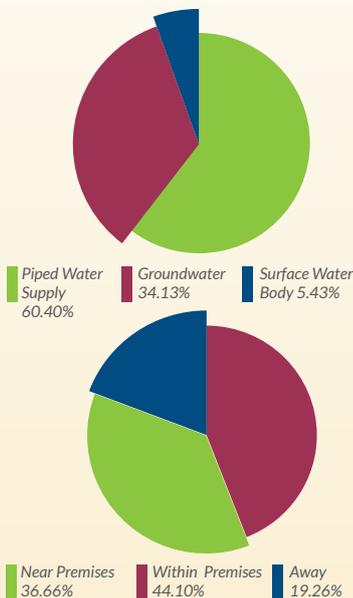
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

Shillong has 76.89% piped water supply as per baseline in 2015 and AMRUT mission target is 100% piped water supply. Water supply project in Shillong is going under the JnNURM project.

Indicators: ↑ Highest ↓ Lowest

State Scenario

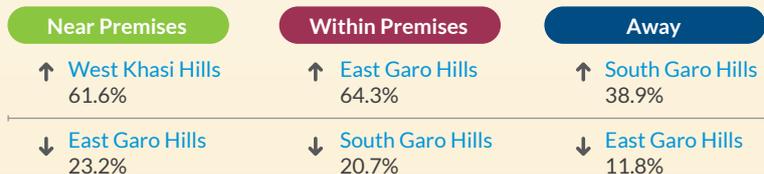


Source of Water



Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source



(Census of India, 2011)

■ Specific Cities

Access to Sanitation

The state has secured 27th rank in Swachh Survekshan 2021.

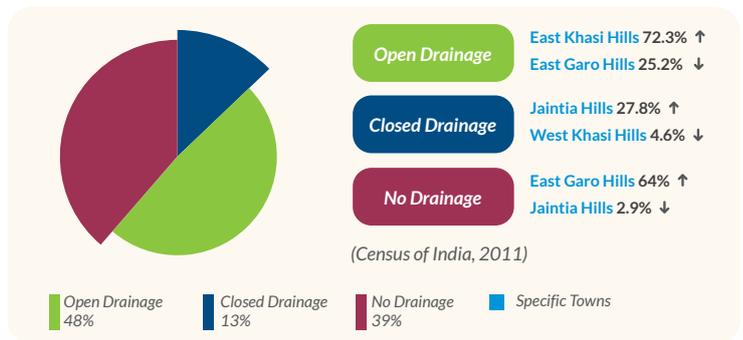
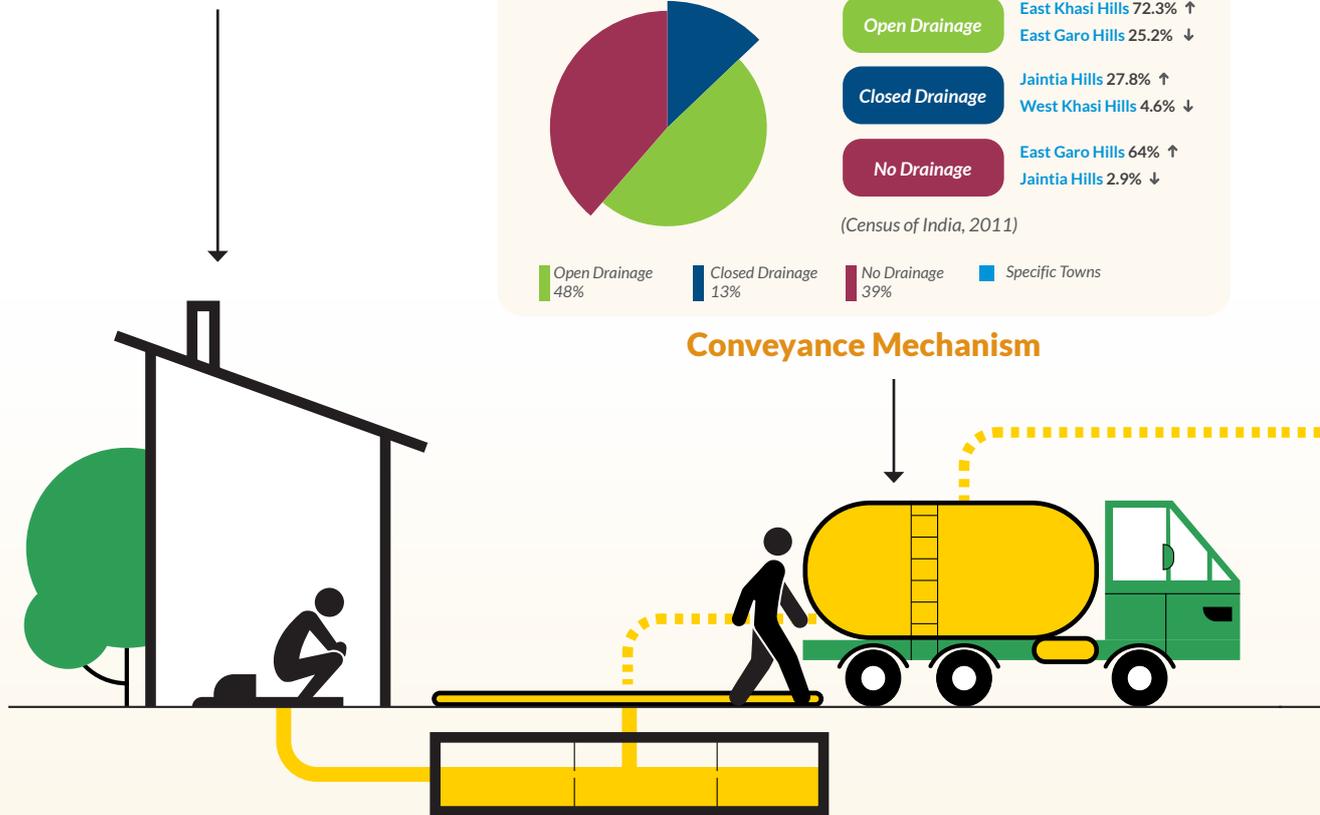
Total ULB/Cities – 10 | Individual Household Toilet Target: 5,066 | Target Achieved: 31.7%

Community/Public Toilet Target: 362 | Target Achieved: 42%

ODF: 10 ULBs | ODF+: 1 ULB

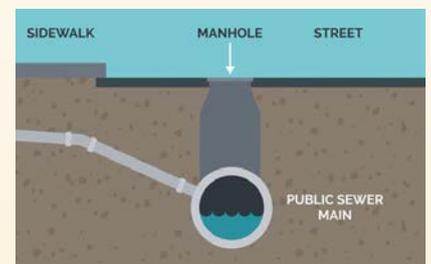
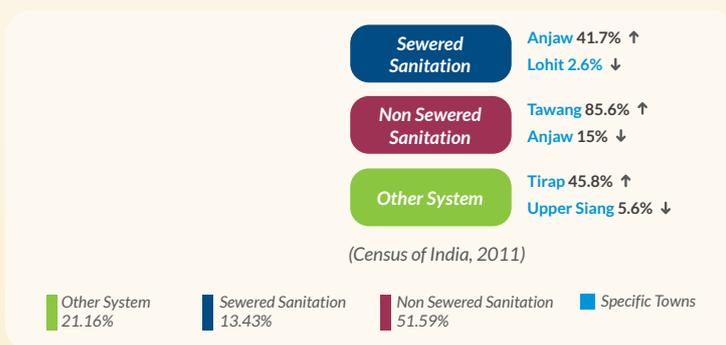


Access to Toilet



Conveyance Mechanism

Containment*



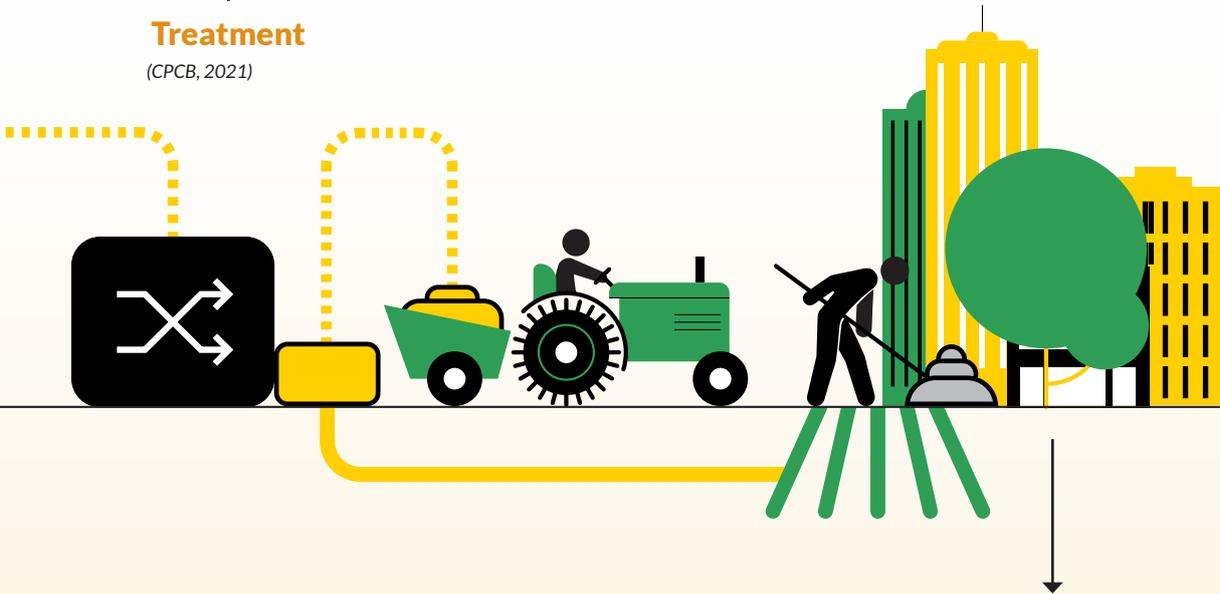
Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewered or non-sewered sanitation system. Closed drainage refers to sewered sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

No Treatment Plant Available

Total Sewage generation 112 MLD

Treatment
(CPCB, 2021)



Enduse/Disposal

No Reuse and discharge in open



Solid Waste Management

No Garbage Free City



(SBM Urban,2022)

School Sanitation

14,514
Institutions

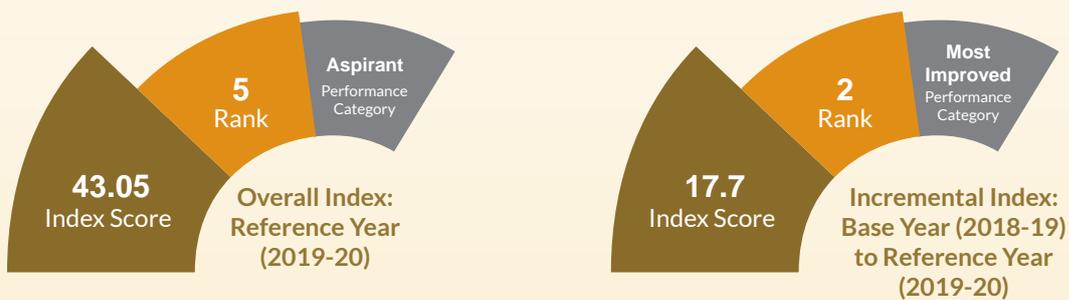
63.81%
Drinking Water Facility

84.29%
Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Shillong	Shillong

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 80.14 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 110 crore (2021 - 2026)



(State Annual Action Plan (SAAP), Arunachal Pradesh 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

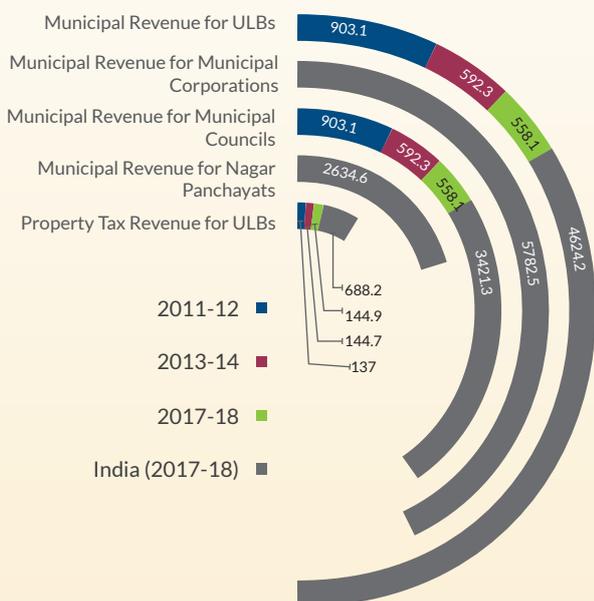
Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector Specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants - Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

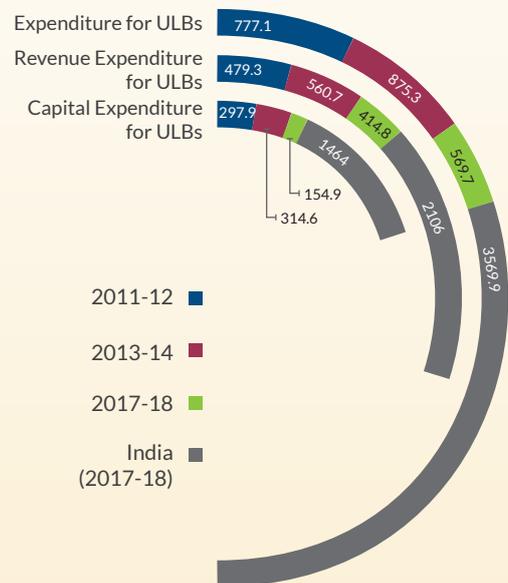
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Mizoram

Capital	Aizawl
Districts	11
Area	21,081km ²
Total Population (2011)	10,91,014
Density	52.05 persons/km ²
Elevation	592.0 m above MSL

Source: Various

Geography

Mizoram is a state in north east India whose southern part shares long international borders with Myanmar and Bangladesh and the northern part shares a domestic border with Manipur, Assam and Tripura. It is the fifth smallest state of India extending from 21°56'N to 24°31'N, and 92°16'E to 93°26'E. Mizoram is a land of rolling hills, valleys, rivers and lakes. The biggest river in Mizoram is Chhimituipui, also known as Kaladan.

Climate

Mizoram has a mild climate, being relatively cool in summer but progressively warmer, most probably due to climate change. The state has regions where cyclones and landslides can cause weather-related emergencies.

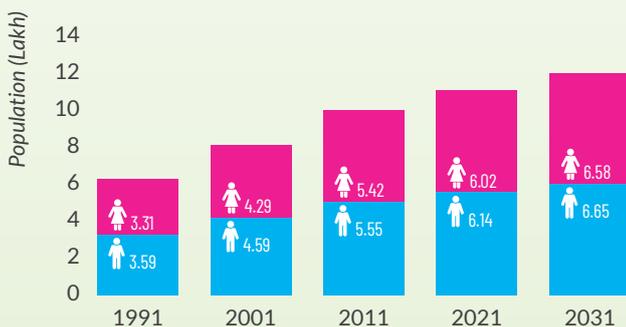
Yearly average temperature	24.75°C
Annual precipitation	128.9 mm
Rainy days	173.25 rainy days

Source: Various

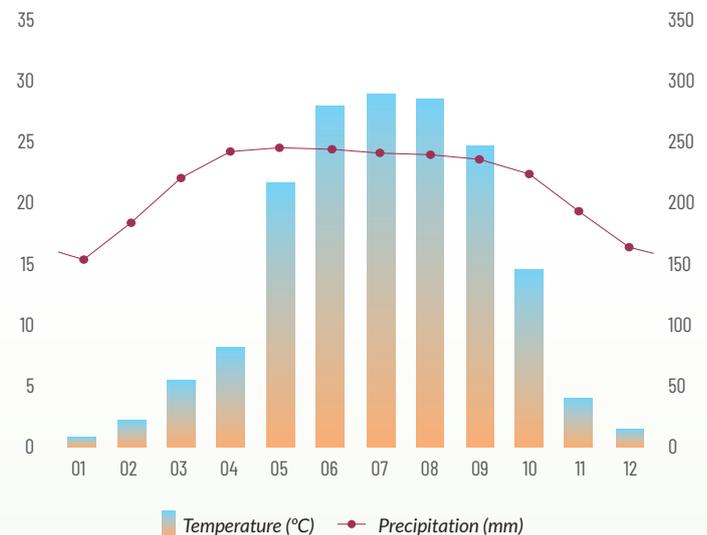
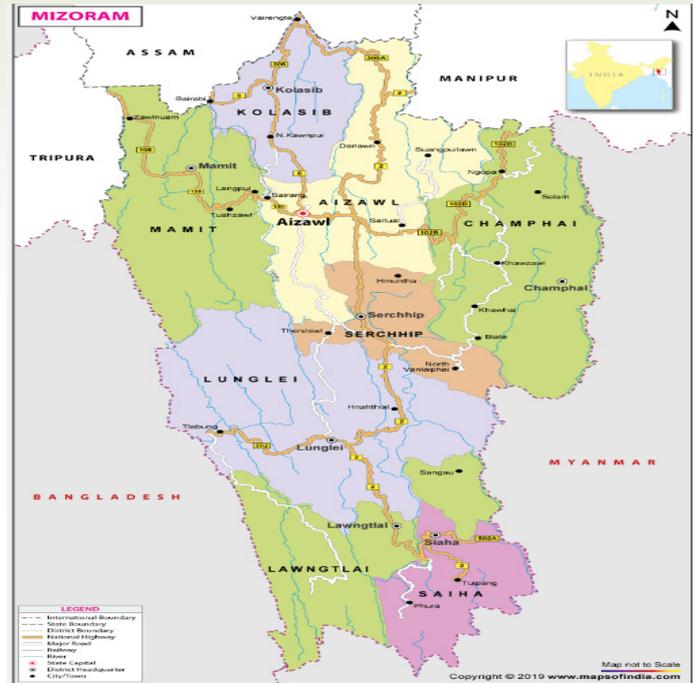
Demography

As per census 2011, 52.11 % of the total population resides in urban areas and 47.89 % resides in rural areas.

Population



(Ministry of Health & Family Welfare, 2020)[2]



Sex Ratio

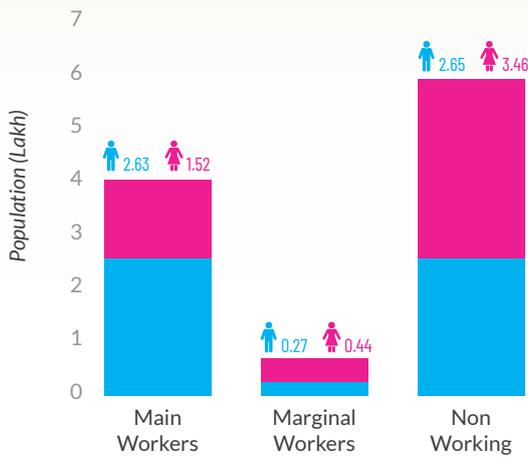


Decadal Variation



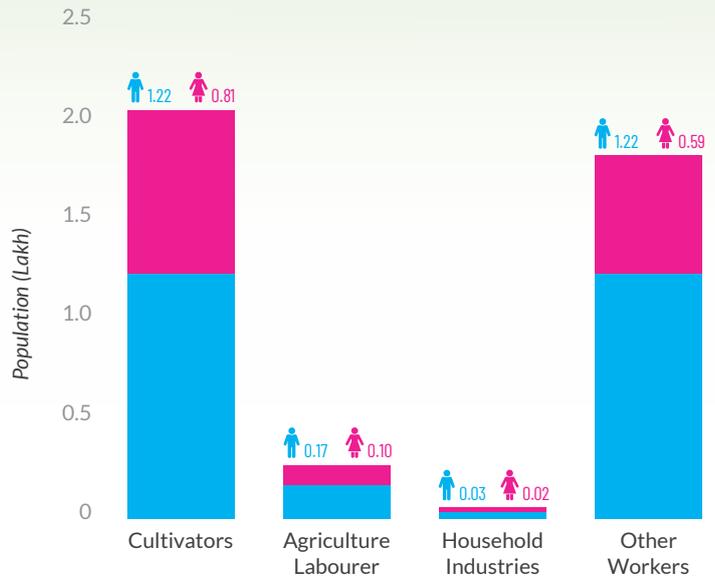
(Census of India, 2011)

Working & Non Working Population

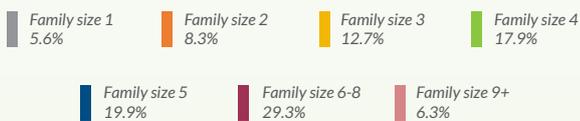


(Census of India, 2011)

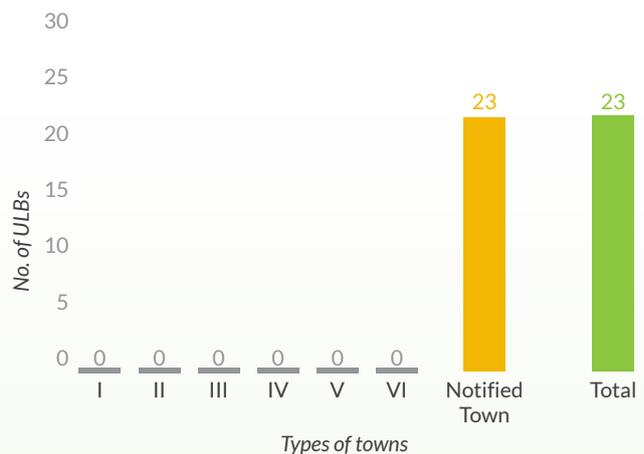
Main Workers



Family Size



Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	1	Area (sq.km.)	129.9
Population (Lakh)	2.9	Population Density (persons/sq.km.)	2232.5

Municipal Councils

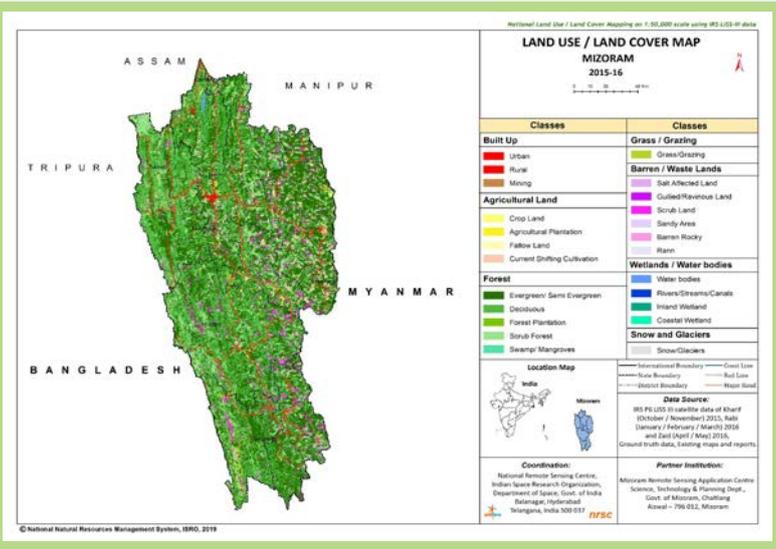
Number	00	Area (sq.km.)	00
Population (Lakh)	00	Population Density (persons/sq.km.)	00

Nagar Panchayats

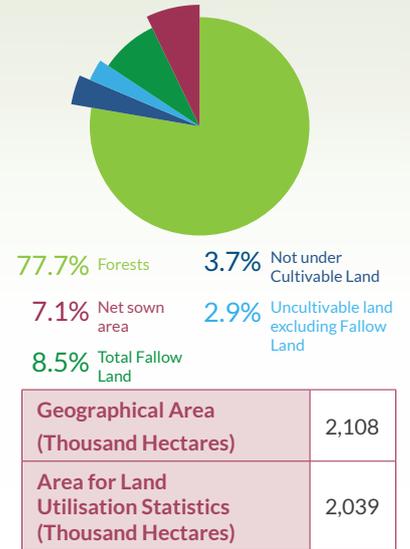
Number	00	Area (sq.km.)	00
Population (Lakh)	00	Population Density (persons/sq.km.)	00

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



(ISRO, 2019)



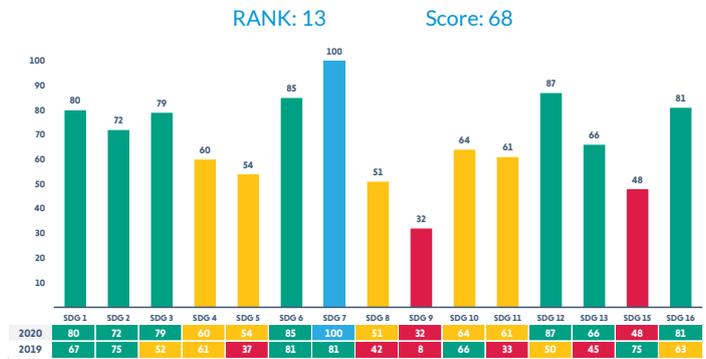
(Ministry of Agriculture and Farmers Welfare, 2021)[1]

SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator



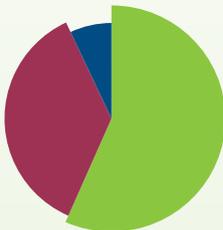
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

Aizawl is having 72% piped water supply as per baseline in 2015 and AMRUT mission target is 100% piped water supply.

Indicators: ↑ Highest ↓ Lowest

State Scenario



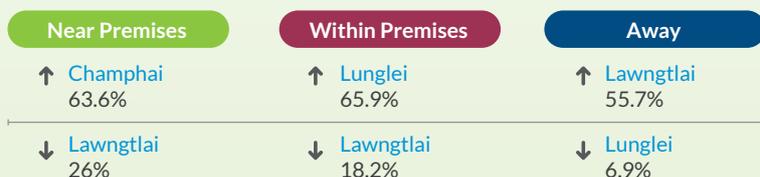
Piped Water Supply 68.33% Groundwater 23.35% Surface Water Body 8.43%

Source of Water



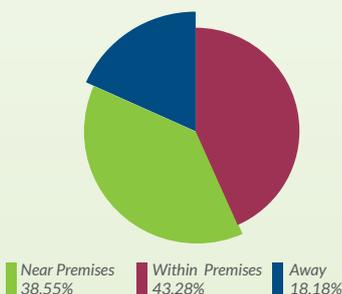
Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source



(Census of India, 2011)

■ Specific Cities



Near Premises 38.55% Within Premises 43.28% Away 18.18%

Access to Sanitation

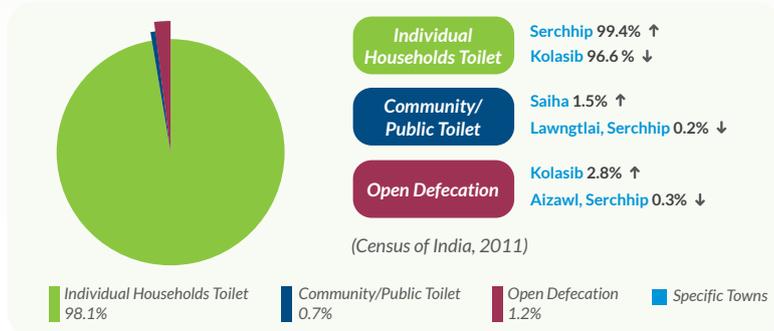
The state has secured 22nd rank in Swachh Survekshan 2021.

Total ULB/Cities - 28

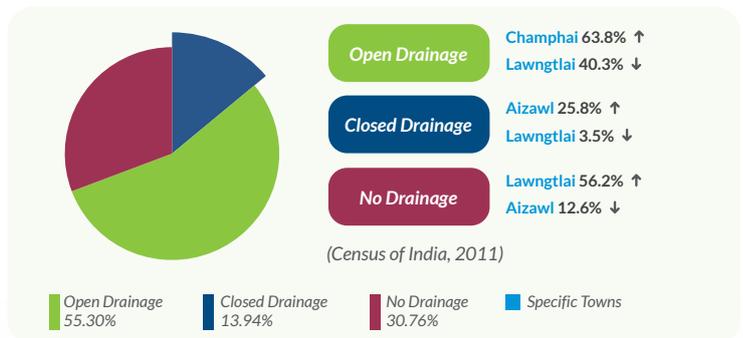
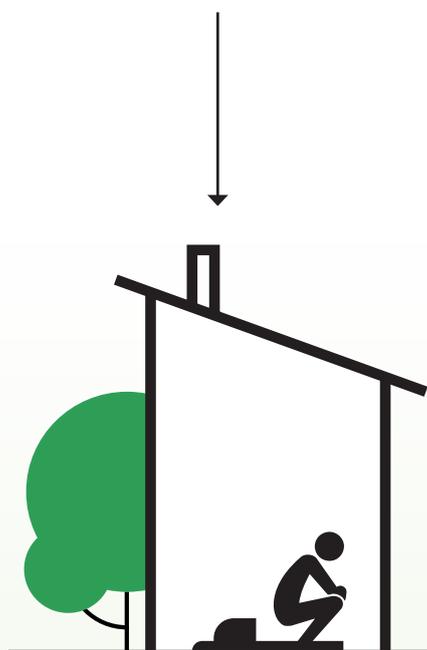
Individual Household Toilet Target: 16,441 | Target Achieved: 72.25%

Community/Public Toilet Target: 491 | Target Achieved: 270%

ODF: 23 ULBs | ODF+: 0 ULB



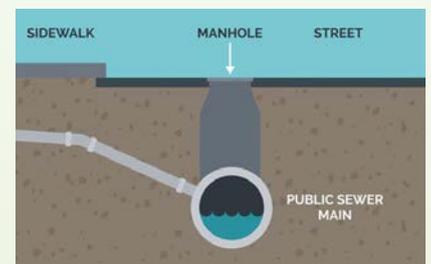
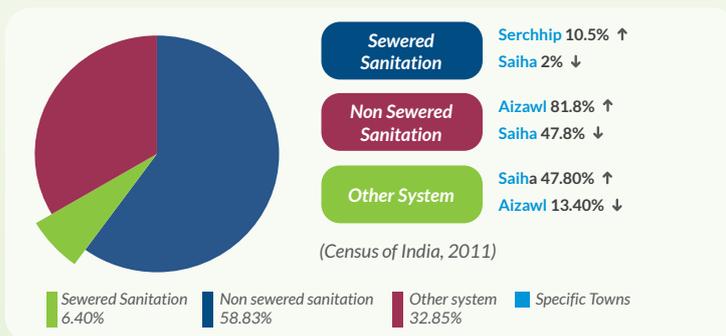
Access to Toilet



Conveyance Mechanism



Containment*



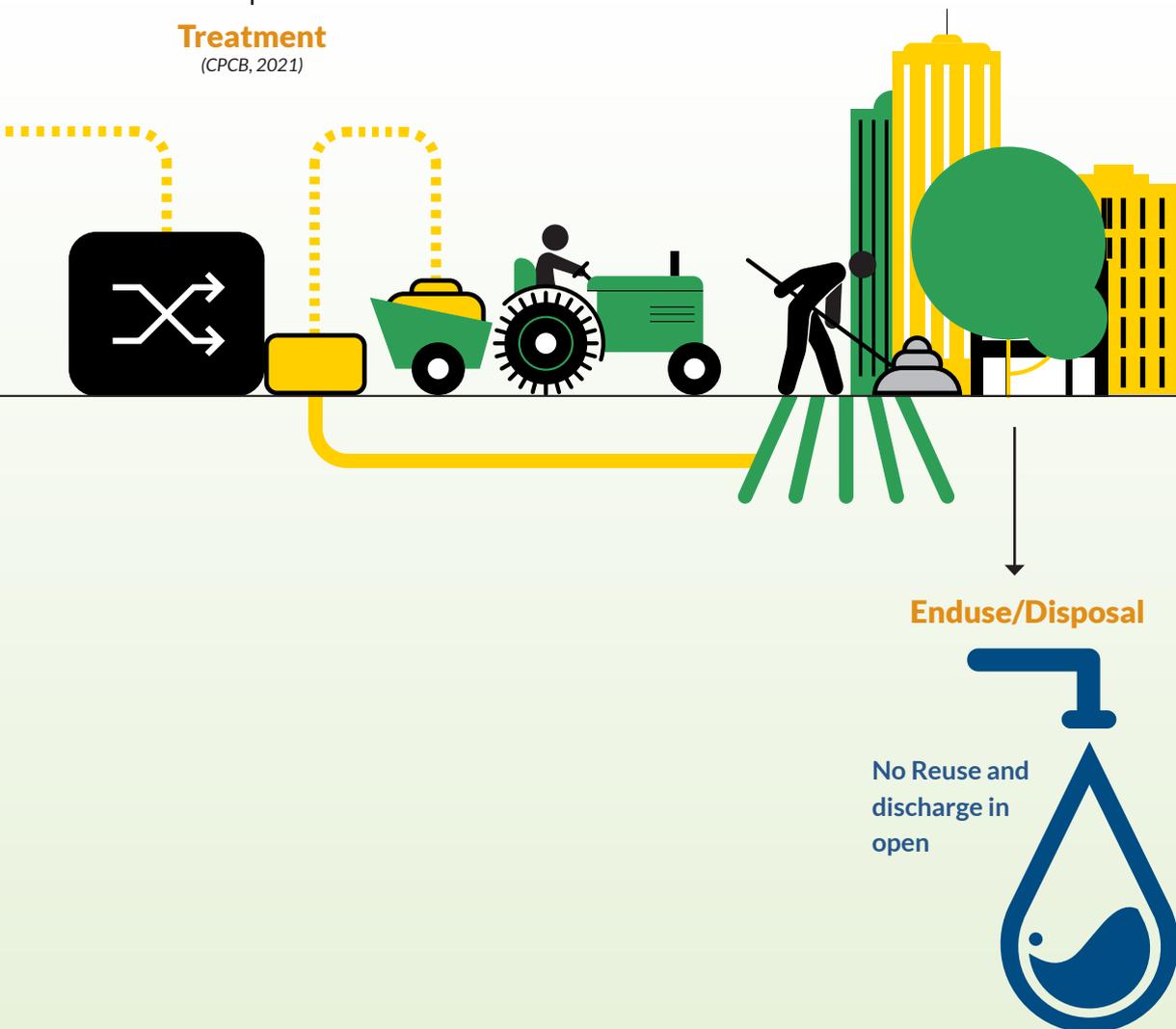
Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewerage or non-sewered sanitation system. Closed drainage refers to sewerage sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

Total
Treatment capacity:
10 MLD
Installed
STP capacity:
10 MLD

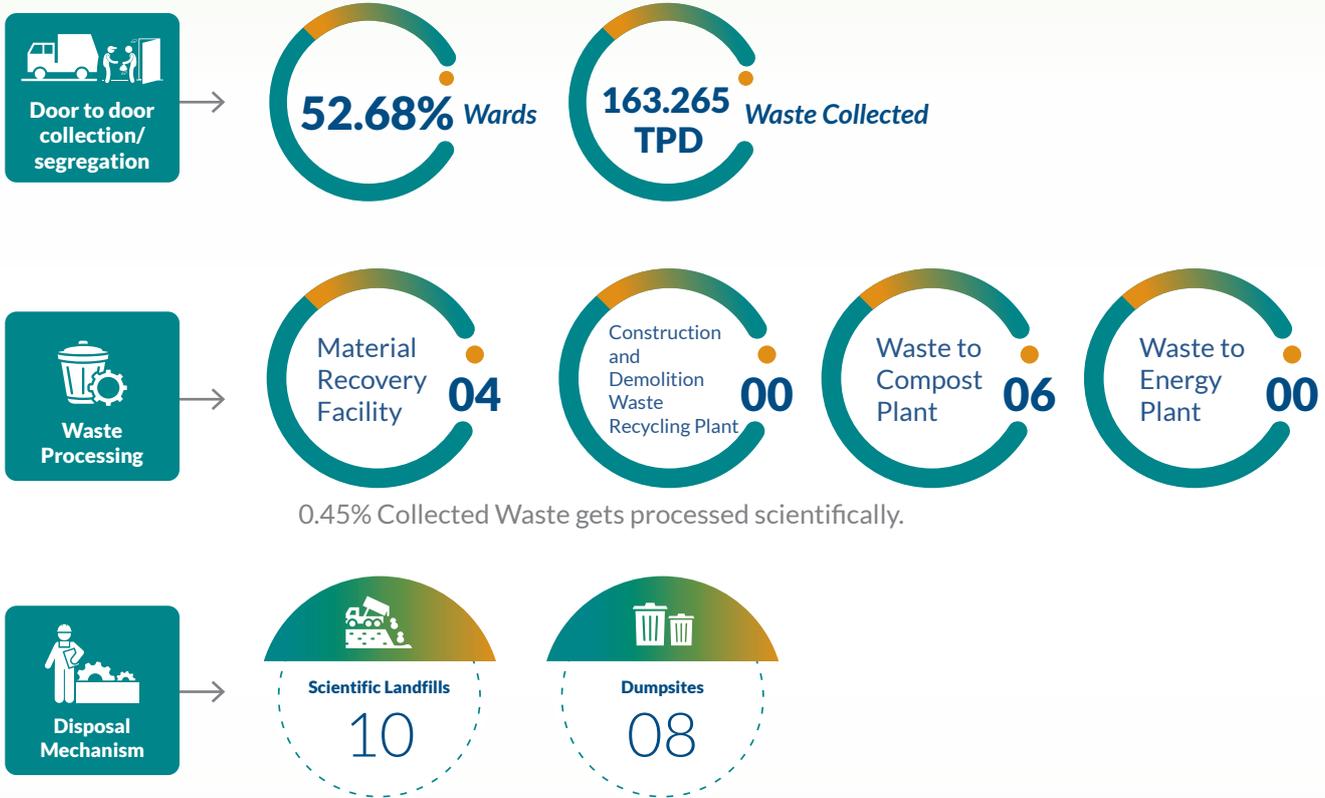
Total Sewage
generation
103 MLD

Treatment
(CPCB, 2021)



Solid Waste Management

No Garbage Free City



(SBM Urban,2022)

School Sanitation

33,840 Institutions

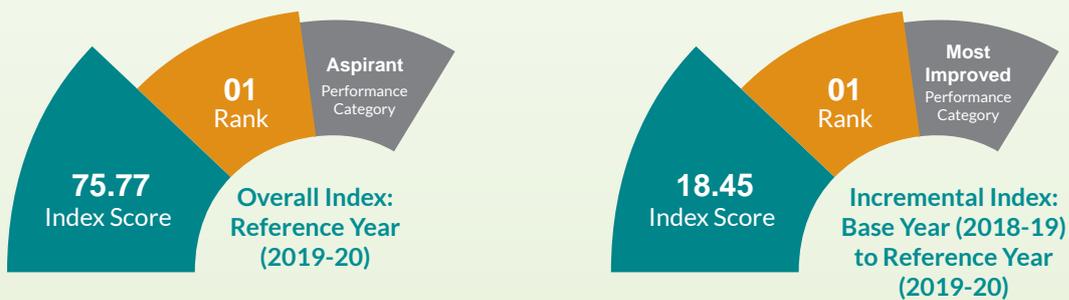
99.86% Drinking Water Facility

83.94% Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Aizawl	Aizawl

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 140.25 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 142 crore (2021 - 2026)



(State Annual Action Plan (SAAP), Mizoram 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants – Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

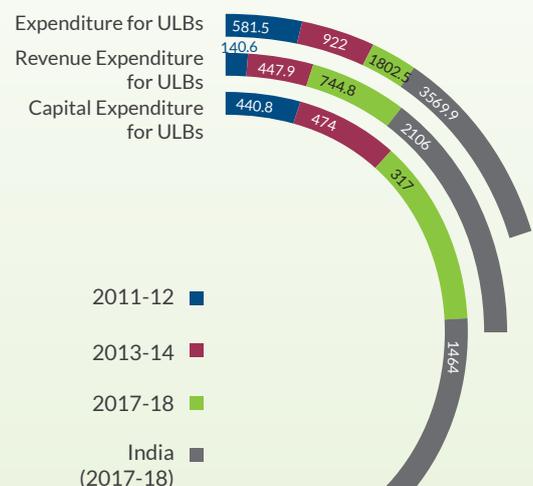
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Nagaland

Capital	Kohima
Districts	16
Area	16,579 km ²
Total Population (2011)	19,80,602
Density	119.3 persons/km ²
Elevation	1,333.76 m above MSL

Source: Various

Geography

Nagaland is a state in north east India bordered by Arunachal Pradesh to the north, Assam to the west, Manipur to the south and Sagaing region of Myanmar to the east. Nagaland is a mountainous state and lies between 25° 40' 12" N and 94° 7' 12" E.

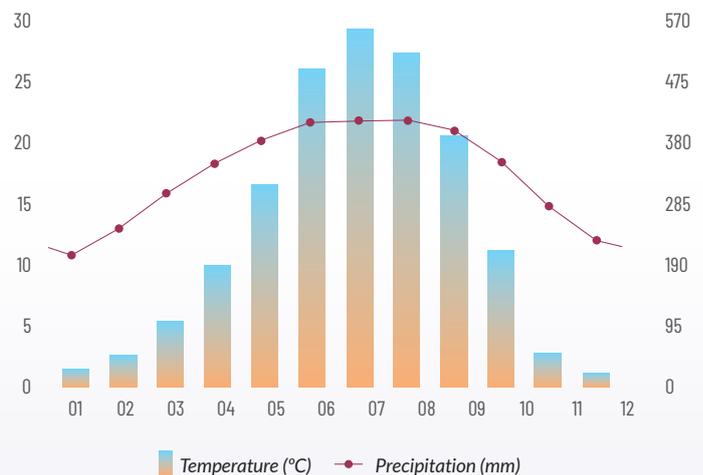


Climate

Nagaland has a largely monsoon climate with high humidity levels. Summer is the shortest season in the state, lasting for only a few months.

Yearly average temperature	25.05°C
Annual precipitation	171.22 mm
Rainy days	207.55 rainy days

Source: Various



Demography

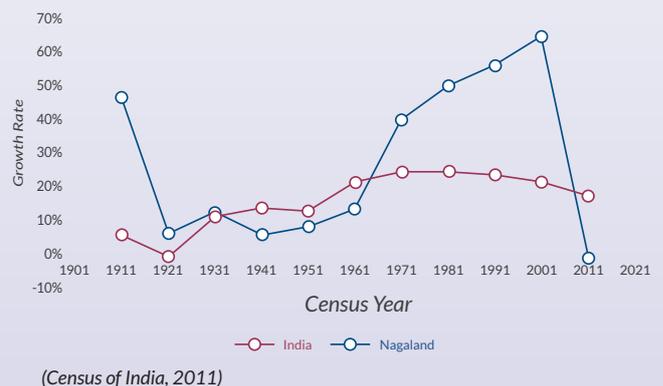
As per census 2011, 28.86 % of the total population resides in urban areas and 71.14 % resides in rural areas.



Population

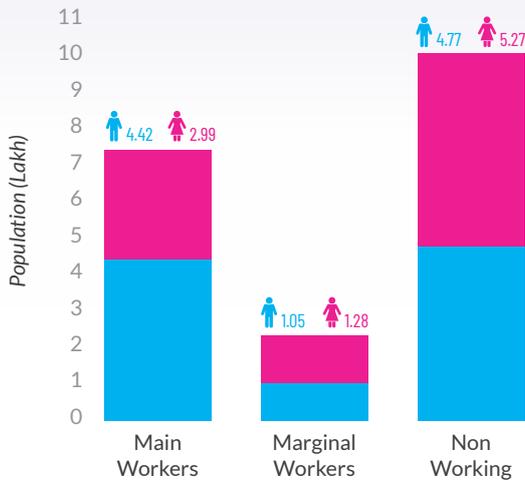


Decadal Variation



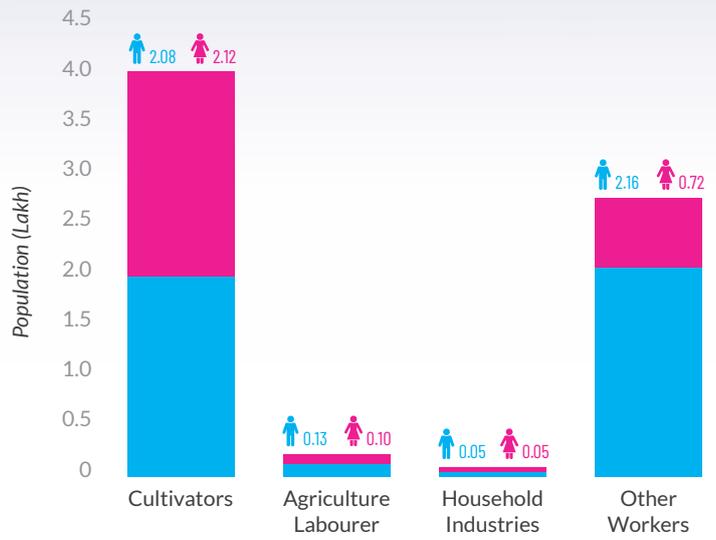
(Ministry of Health & Family Welfare, 2020)[2]

Working & Non Working Population

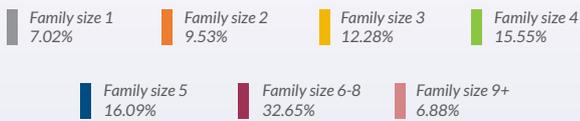


(Census of India, 2011)

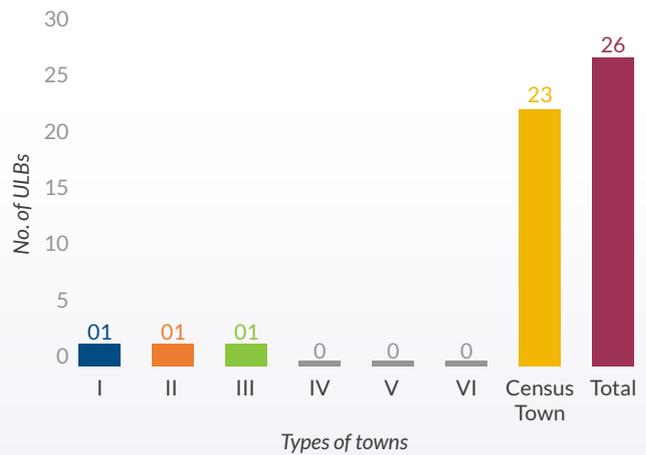
Main Workers



Family Size



Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	00	Area (sq.km.)	00
Population (Lakh)	00	Population Density (persons/sq.km.)	00

Municipal Councils

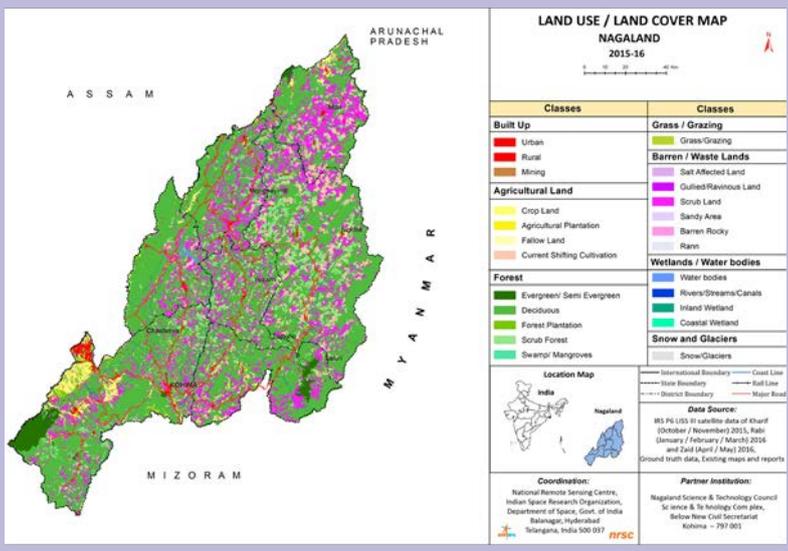
Number	03	Area (sq.km.)	42.13
Population (Lakh)	2.6	Population Density (persons/sq.km.)	6,171.4

Nagar Panchayats

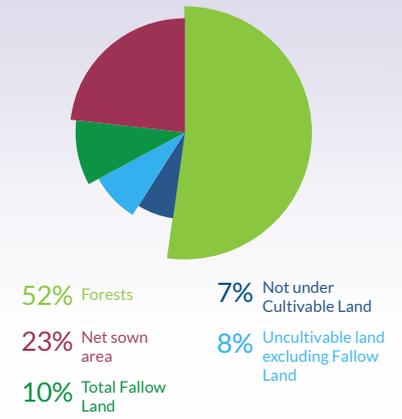
Number	29	Area (sq.km.)	129.65
Population (Lakh)	3.3	Population Density (persons/sq.km.)	2,545.3

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



(ISRO, 2019)



Geographical Area (Thousand Hectares)	1,658
(Thousand Hectares)	1,653

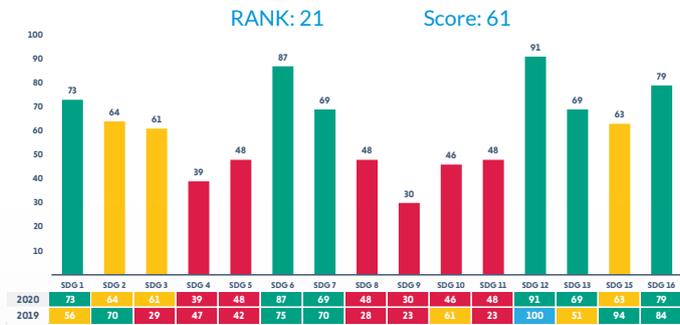
(Ministry of Agriculture and Farmers Welfare, 2021)[1]

SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator



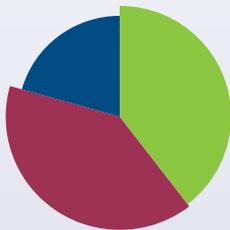
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

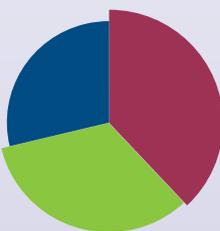
Dimapur is having 32% and Kohima is having 20.6% piped water supply as per baseline in 2015 and AMRUT mission target is 100% piped water supply.

Indicators: ↑ Highest ↓ Lowest

State Scenario

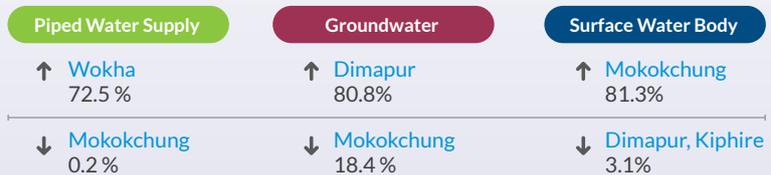


Piped Water Supply 39.55% | Groundwater 39.81% | Surface Water Body 20.61%



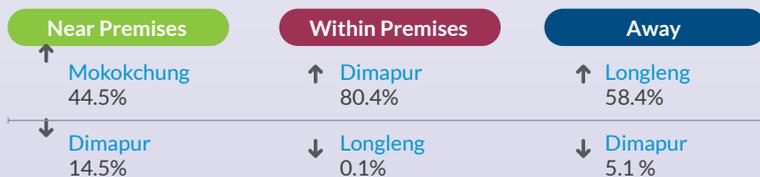
Near Premises 33.25% | Within Premises 38.01% | Away 28.75%

Source of Water



Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source



(Census of India, 2011)

■ Specific Cities

Access to Sanitation

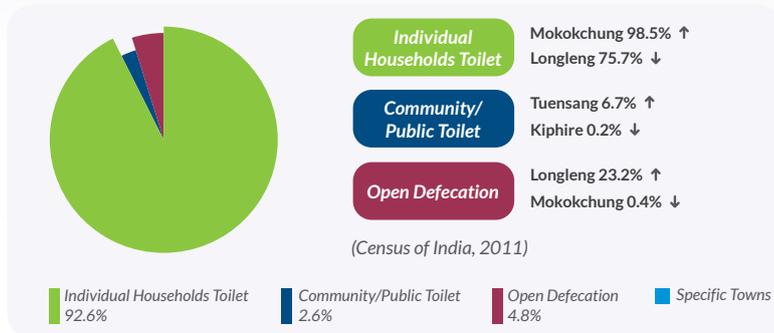
The state has secured 18th rank in Swachh Survekshan 2021.

Total ULB/Cities - 39

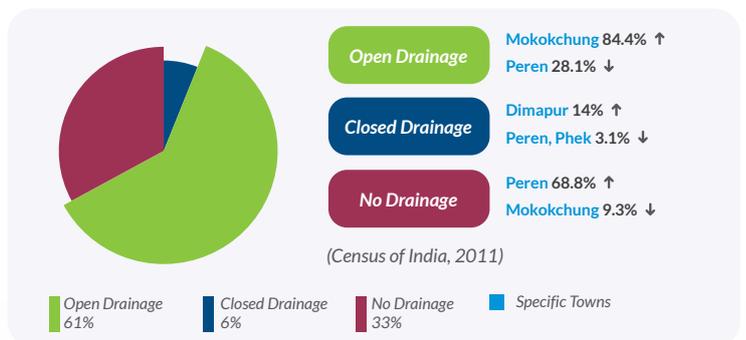
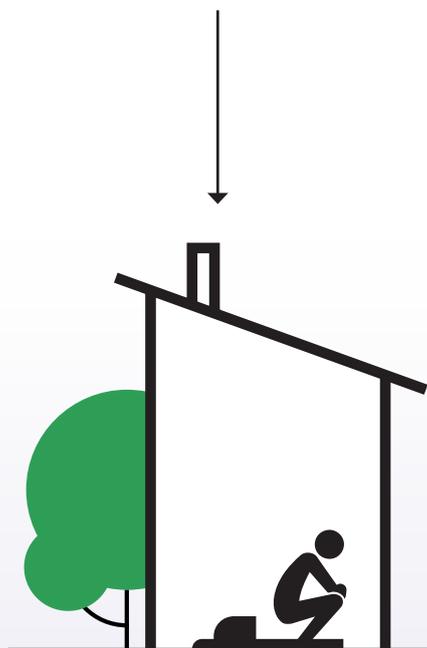
Individual Household Toilet Target: 23,427 | Target Achieved: 84.72%

Community/Public Toilet Target: 478 | Target Achieved: 49.8%

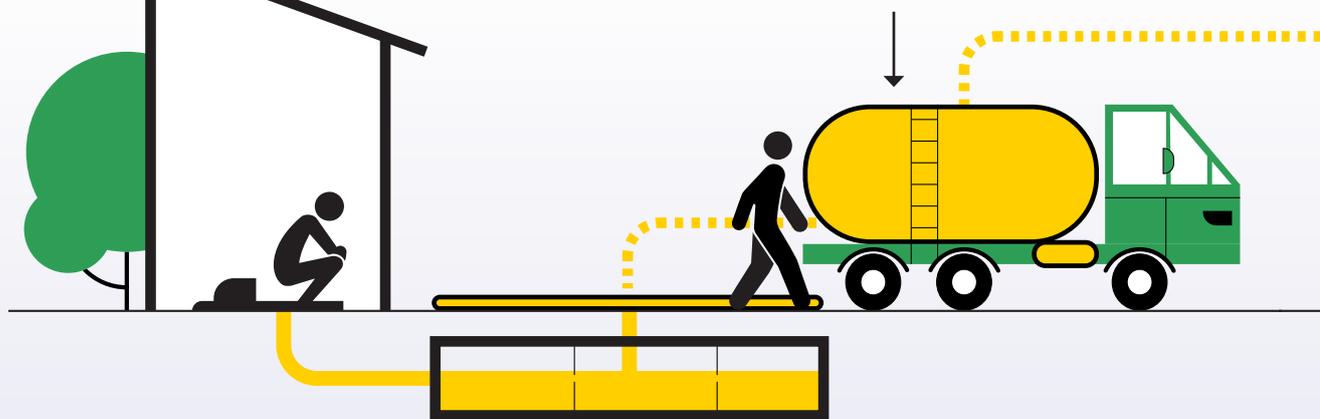
ODF: 19 ULBs | ODF+: 0 ULB



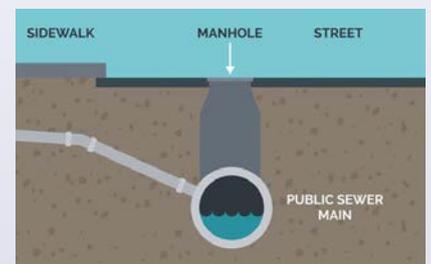
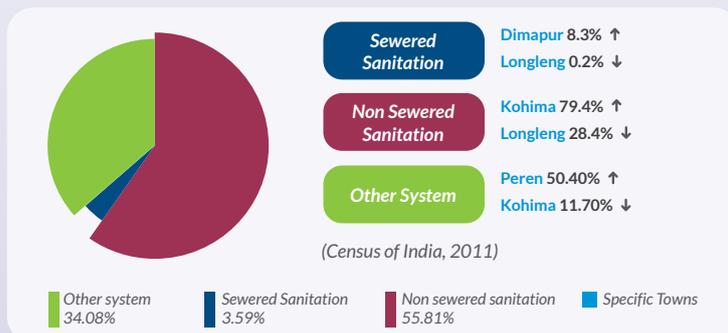
Access to Toilet



Conveyance Mechanism



Containment*



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewer or non-sewered sanitation system. Closed drainage refers to sewer sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

FSTP
Capacity
90 KLD

Total Sewage
generation
135 MLD

Treatment
(CPCB, 2021)



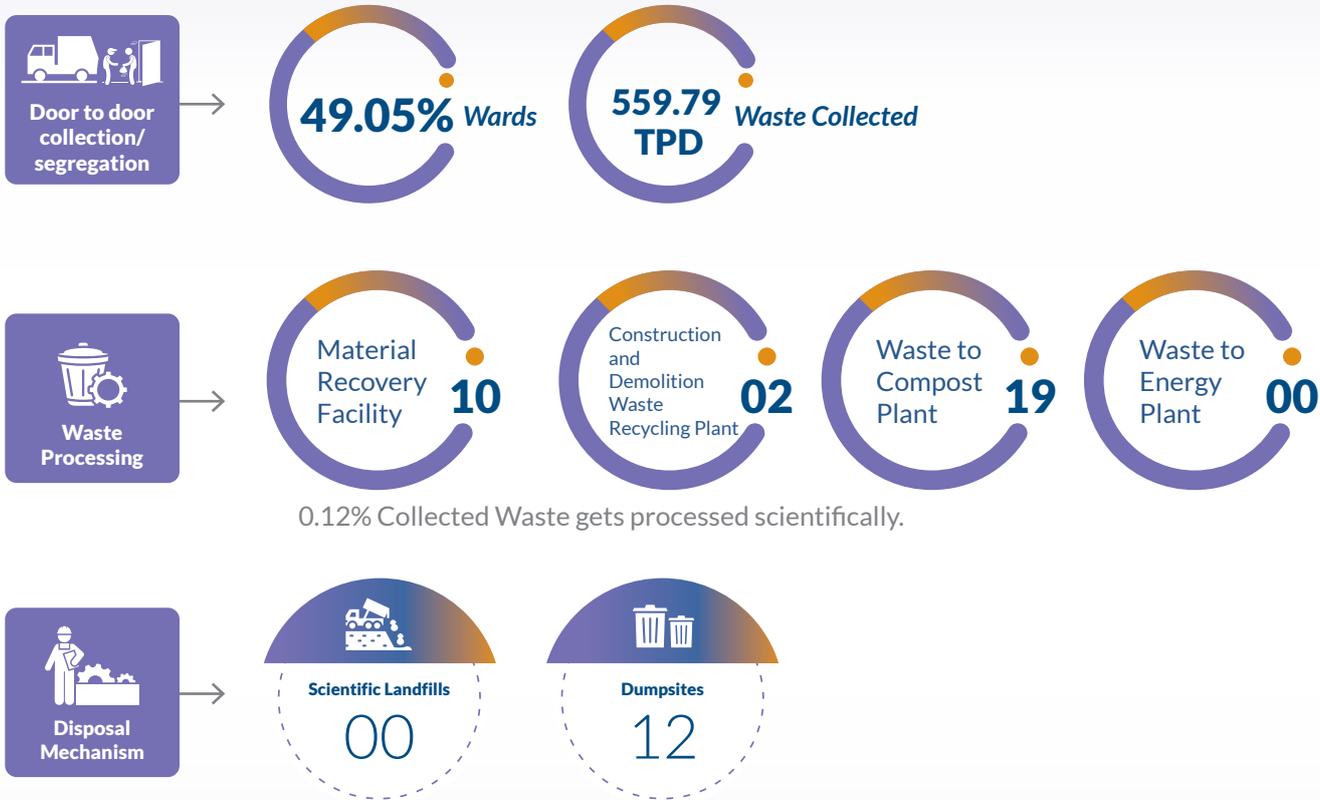
Enduse/Disposal

No Reuse and
discharge in
open



Solid Waste Management

No Garbage Free City



(SBM Urban,2022)

School Sanitation

2,826 Institutions

82.06% Drinking Water Facility

99.89% Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Dimapur, Kohima	Kohima

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 120.22 crore (2015 - 2020)



Total AMRUT 2.0 Budget: INR 175 crore (2021 - 2026)

(State Annual Action Plan (SAAP), Nagaland 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

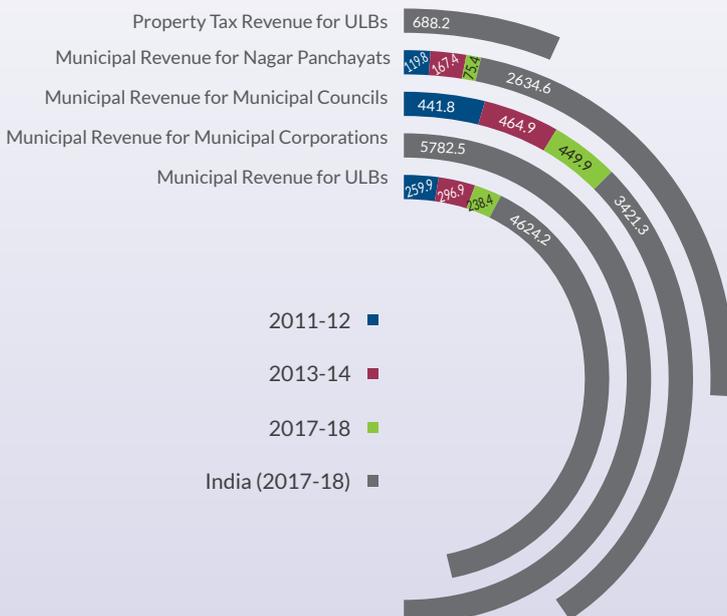
Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants – Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

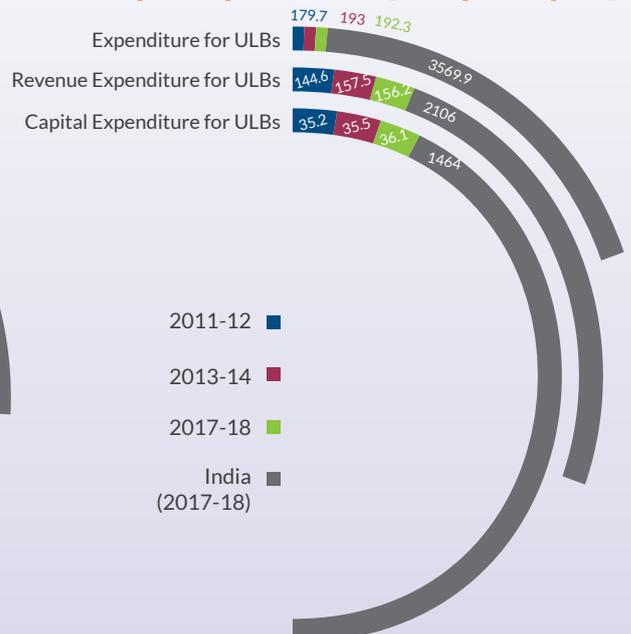
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Sikkim

Capital	Gangtok
Districts	6
Area	7,096 km ²
Total Population (2011)	6,10,577
Density	86.05 persons/km ²
Elevation	837.93 m above MSL



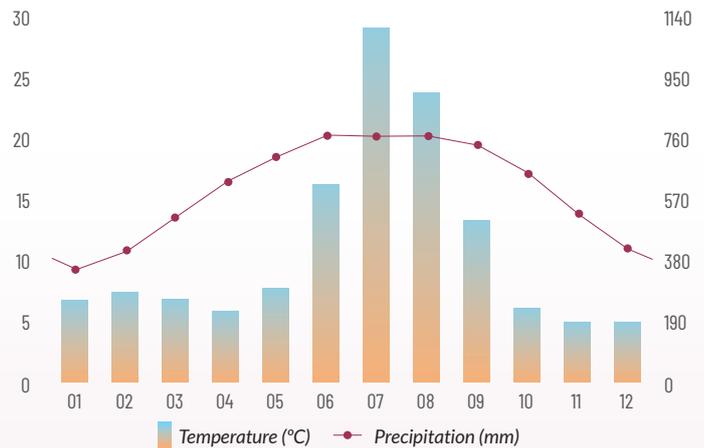
Geography

Sikkim is a state in north east India bordered by Tibet Autonomous Region of China in the north and north east, Bhutan in the east, Province no. 1 of Nepal in the west and West Bengal in the South. Sikkim is also close to Siliguri Corridor, which borders Bangladesh. Sikkim is the second smallest states of India situated in the Eastern Himalayas at 27° 33' 0"N, 88° 30' 0" E.

Climate

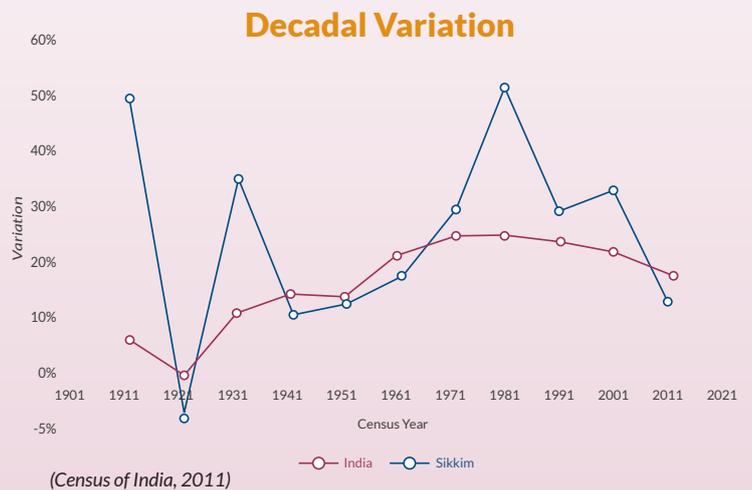
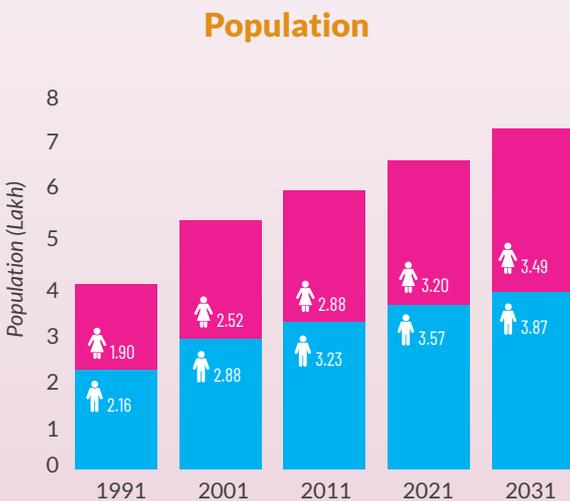
The state has five seasons: winter, summer, spring, autumn, and monsoon season. Sikkim's climate ranges from subtropical in the south to tundra in the north. Most of the inhabited regions of the state experience a temperate climate. .

Yearly average temperature	14.48°C
Precipitation	105.45 mm
Rainy days	168.44 rainy days



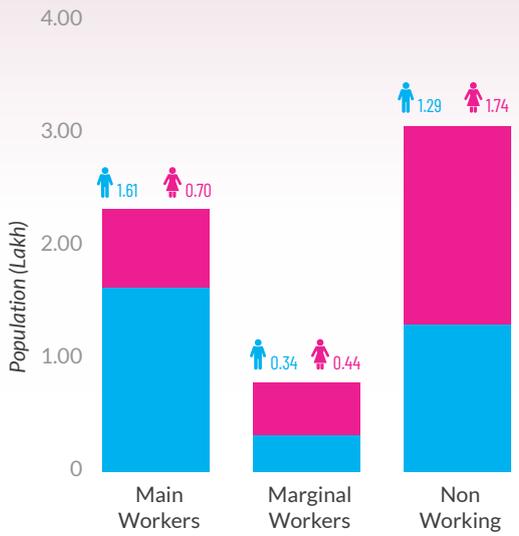
Demography

As per census 2011, 25.15 % of the total population resides in urban areas and 74.85 % resides in rural areas.



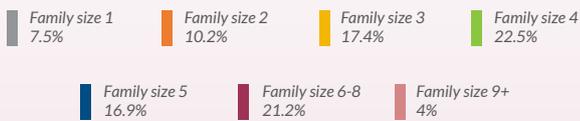
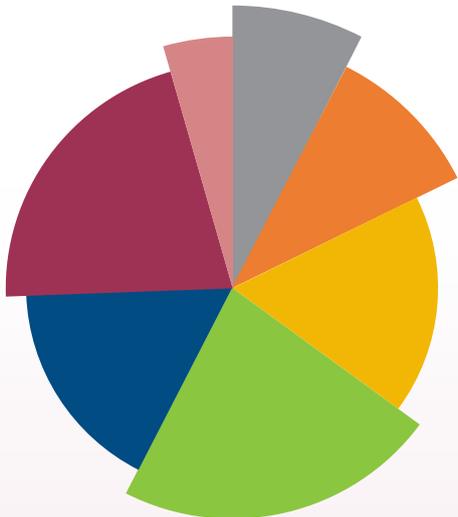
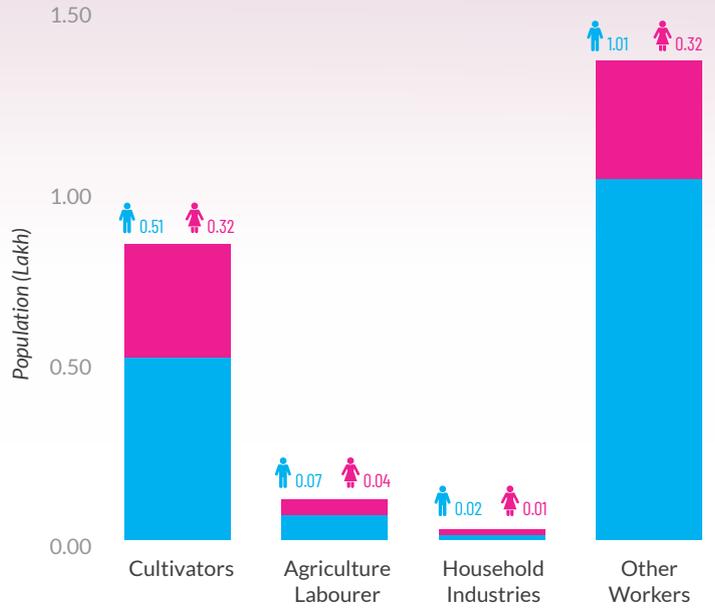
(Ministry of Health & Family Welfare, 2020)[2]

Working & Non Working Population



(Census of India, 2011)

Main Workers



(Census of India, 2011)

Population range for each class of city

Municipal Corporations

Number	1	Area (sq.km.)	19.29
Population (Lakh)	1	Population Density (persons/sq.km.)	5,184.0

Municipal Councils

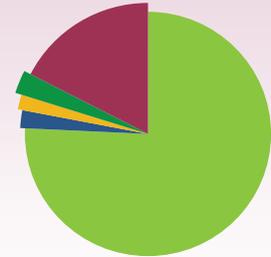
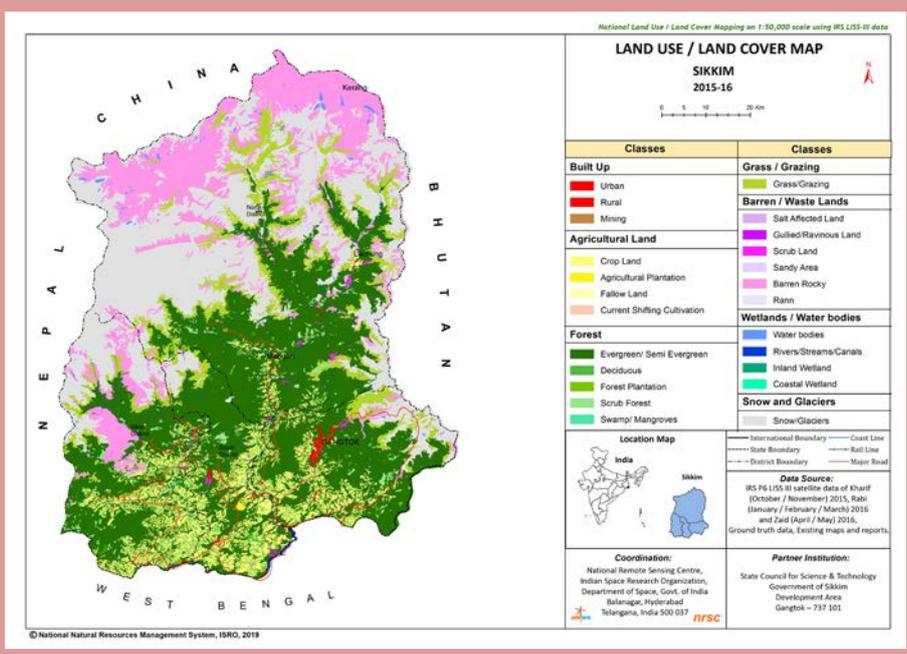
Number	3	Area (sq.km.)	12.9
Population (Lakh)	0.3	Population Density (persons/sq.km.)	2,325.6

Nagar Panchayats

Number	3	Area (sq.km.)	4.63
Population (Lakh)	0.2	Population Density (persons/sq.km.)	4,319.7

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



76% Forests
17% Net sown area
3% Total Fallow Land
2% Not under Cultivable Land
2% Uncultivable land excluding Fallow Land

Geographical Area (Thousand Hectares)	710
Area for Land Utilisation Statistics (Thousand Hectares)	441

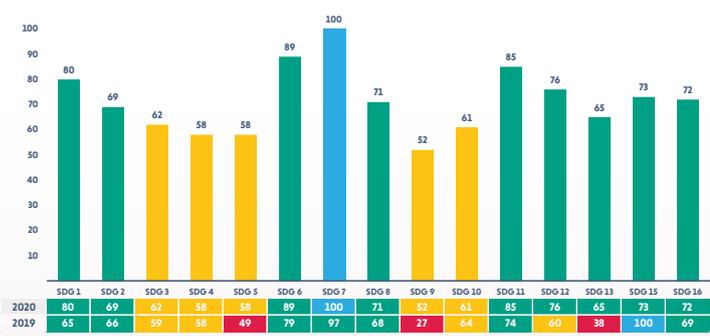
(Ministry of Agriculture and Farmers Welfare, 2021)[1]

(ISRO, 2019)

SDG Status



Performance by Indicator



(NITI Aayog and United Nations, 2021) [7]

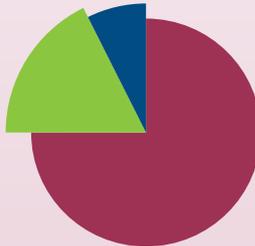
Access to Water Supply

Gangtok is having 75% piped water supply as per baseline in 2015 and AMRUT mission target is 100% piped water supply.

Indicators: ↑ Highest ↓ Lowest



Piped Water Supply 94.18%
Groundwater 4.95%
Surface Water Body 0.83%



Near Premises 17.63%
Within Premises 75.03%
Away 7.38%

Source of Water

Piped Water Supply	Groundwater	Surface Water Body
↑ South District 96.8%	↑ East District 7.3%	↑ West District 1.8%
↓ East District 91.1%	↓ West District 1.7%	↓ East District 0.3%

Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source

Near Premises	Within Premises	Away
↑ North District 19.6%	↑ East District 81.1%	↑ West District 17.4%
↓ East District 14.9%	↓ West District 66%	↓ North District 3.4%

(Census of India, 2011)

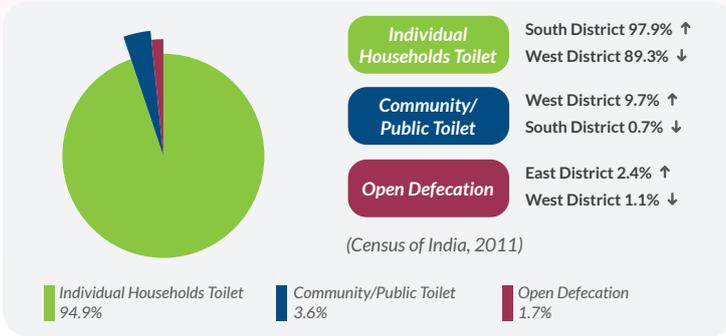
Access to Sanitation

The state has secured 24th rank in Swachh Survekshan 2021.

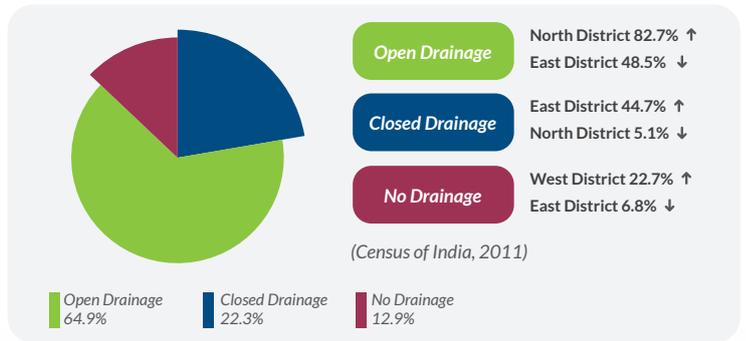
Total ULB/Cities – 7 | Individual Household Toilet Target: 1,587 | Target Achieved: 88.1%

Community/Public Toilet Target: 491 | Target Achieved: 188.73%

ODF: 7 ULBs | ODF+: 3 ULBs

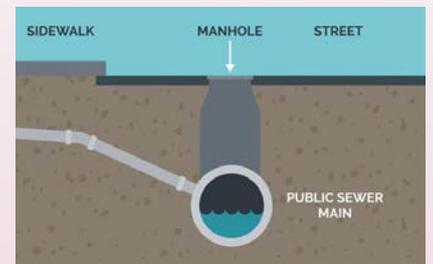
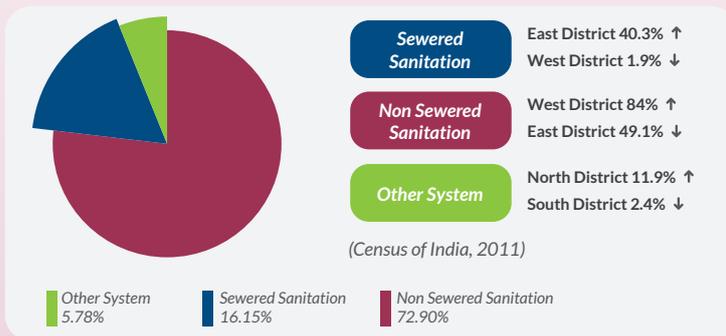


Access to Toilet



Conveyance & Disposal Mechanism

Containment and Conveyance*



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewer or non-sewered sanitation system. Closed drainage refers to sewer sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*The percentage is only showing percentage of Individual Household Toilet

Total Treatment capacity:
30 MLD
Installed STP capacity:
20 MLD
Operational STP Capacity:
18 MLD

Total Sewage generation
52 MLD

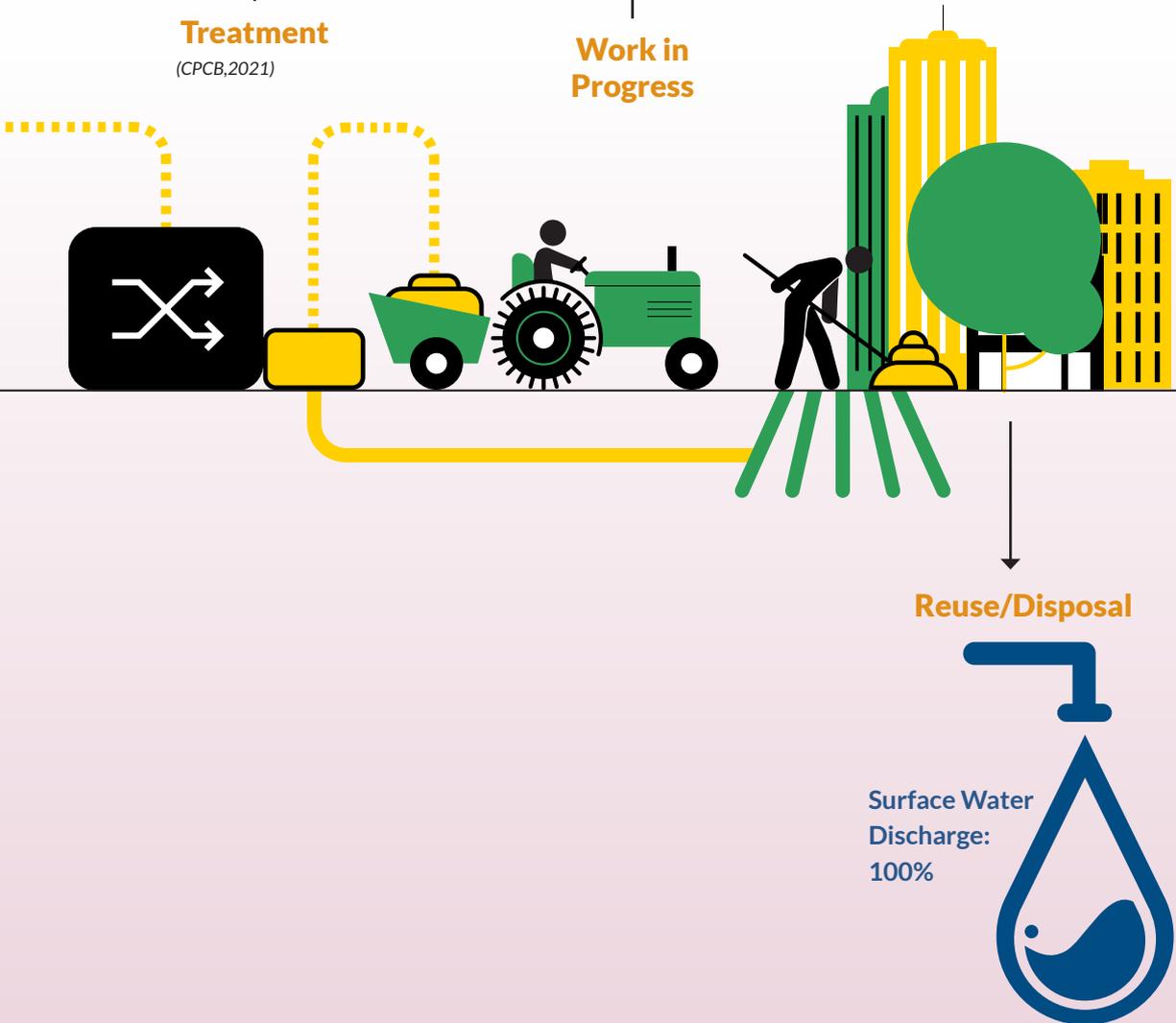
Proposed STP capacity
10 MLD

Treatment
(CPCB, 2021)

Work in Progress

Reuse/Disposal

Surface Water Discharge:
100%



Solid Waste Management

No Garbage Free City



(SBM Urban, 2022)

School Sanitation

1,279
Institutions

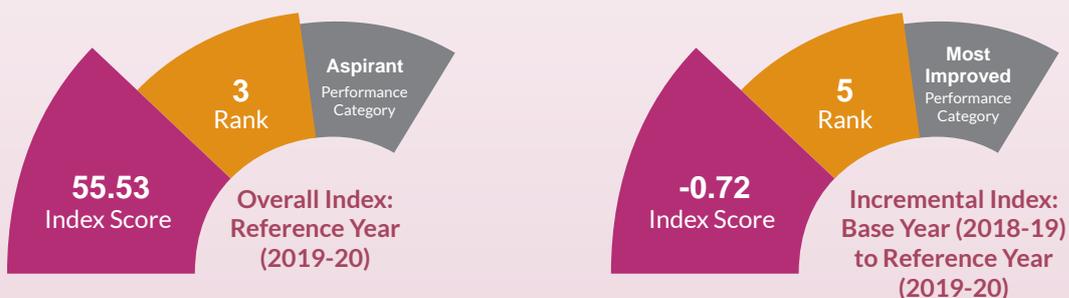
98.51%
Drinking Water Facility

99.83%
Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Gangtok	Namchi and Gangtok

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 40.06 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 40 crore (2021 - 2026)



(State Annual Action Plan (SAAP), Sikkim 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

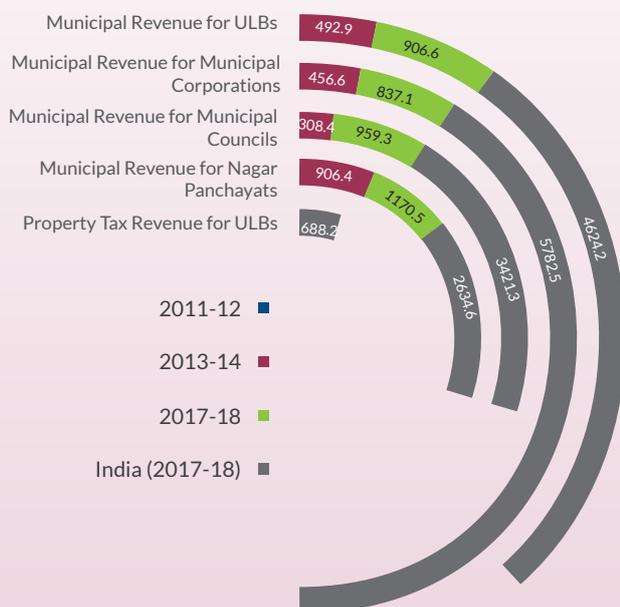
Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector Specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants - Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

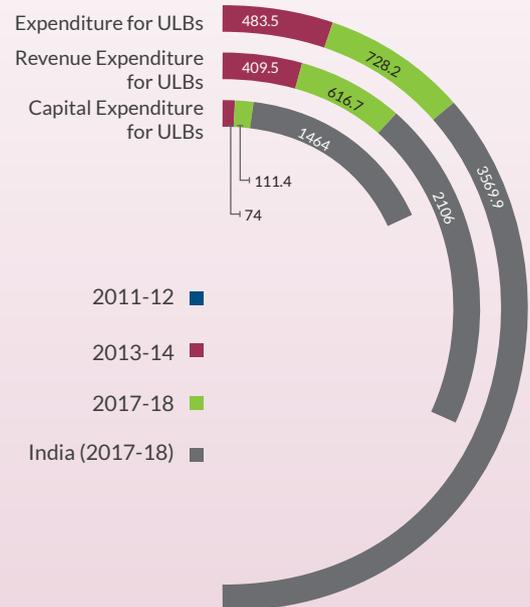
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Tripura

Capital	Agartala
Districts	8
Area	10,491.69 km ²
Total Population (2011)	36,71,032
Density	350.4 persons/km ²
Elevation	64.9 m above MSL

Source: Various

Geography

Tripura is a state in north east India bordered by Assam and Mizoram to the east and Bangladesh to the north, south and west. It is the third smallest state of India.

The physiography is characterised by hill ranges, valleys, and plains. The state has five anticlinal ranges of hills running north to south, from Boromura in the west, through Atharamura, Longtharai and Shakhan, to Jampui hills in the east.

Climate

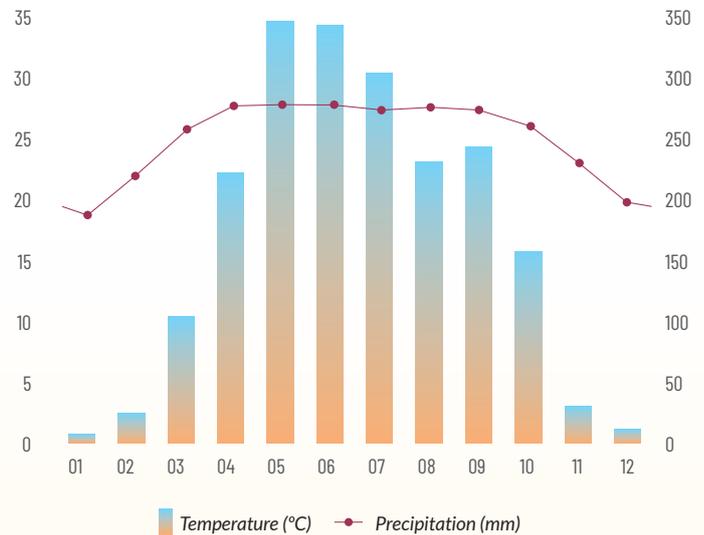
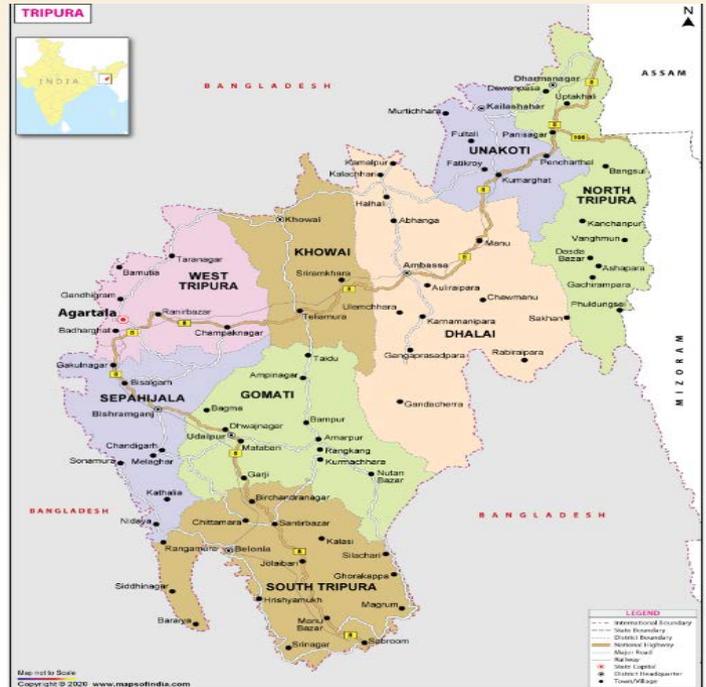
The state has a tropical savanna climate. The undulating topography leads to local variations, particularly in the hill ranges.

Yearly average temperature	26.43°C
Annual precipitation	203.39 mm
Rainy days	187.28 rainy days

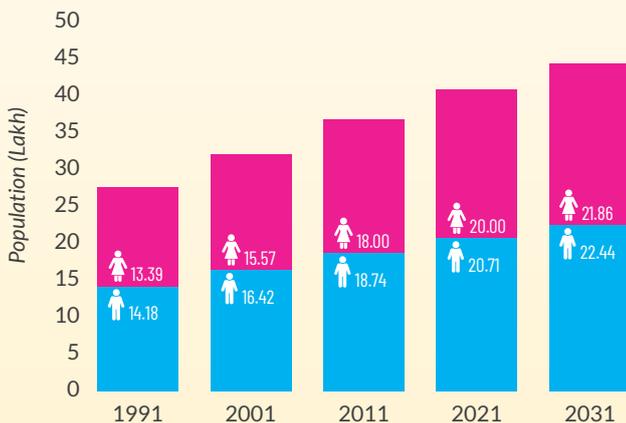
Source: Various

Demography

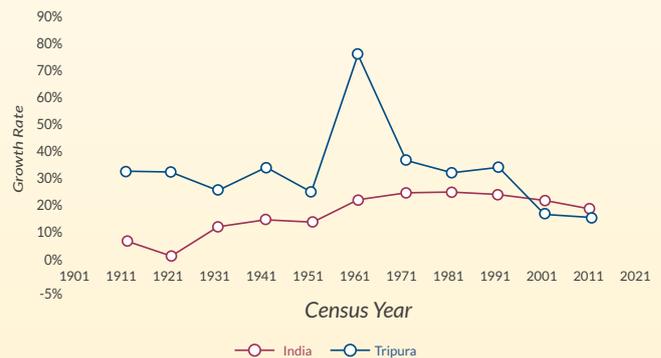
As per census 2011, 26.17 % of the total population resides in urban areas and 73.83 % resides in rural areas.



Population



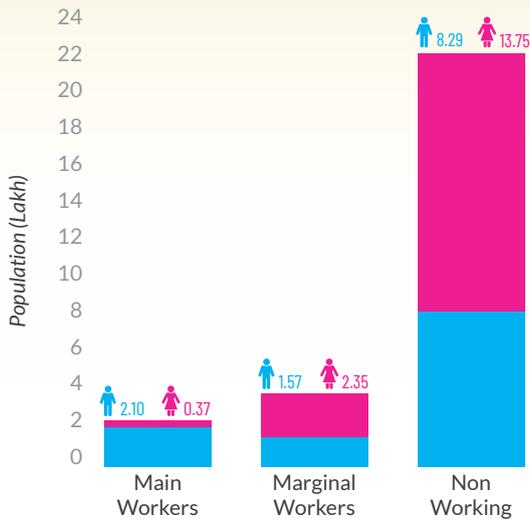
Decadal Variation



(Census of India, 2011)

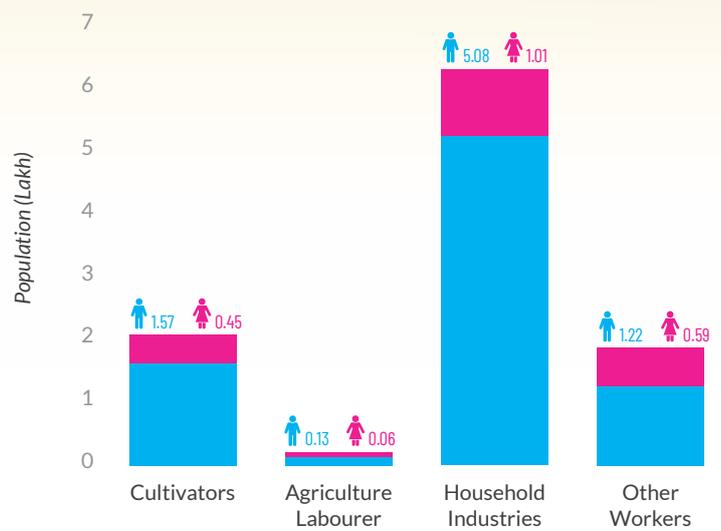
(Ministry of Health & Family Welfare, 2020)[2]

Working & Non Working Population

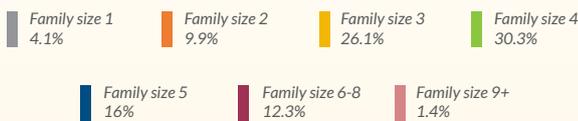
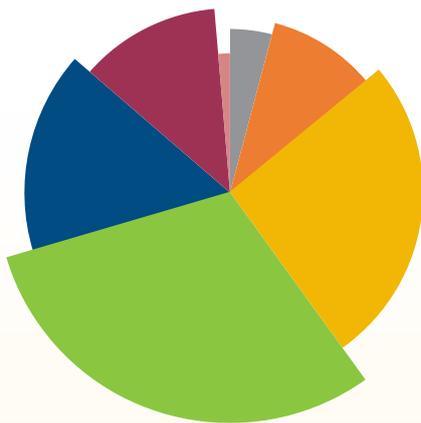


(Census of India, 2011)

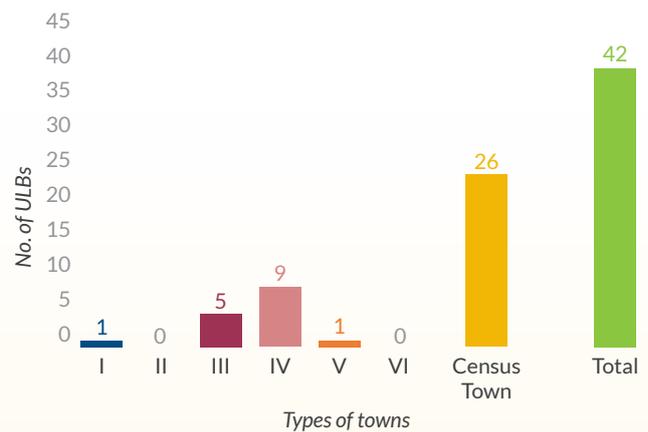
Main Workers



Family Size



Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	1	Area (sq.km.)	76.5
Population (Lakh)	4.4	Population Density (persons/sq.km.)	5751.6

Municipal Councils

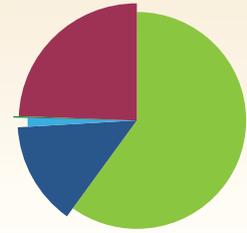
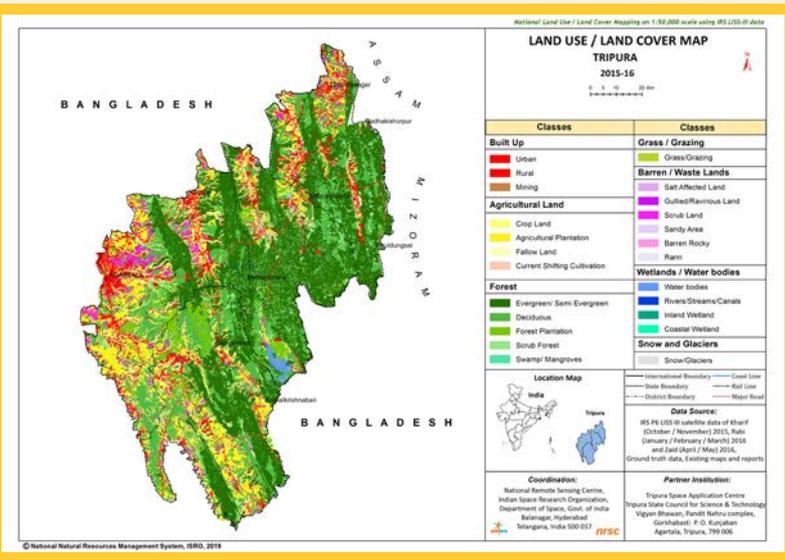
Number	13	Area (sq.km.)	131.43
Population (Lakh)	2.7	Population Density (persons/sq.km.)	2054.3

Nagar Panchayats

Number	6	Area (sq.km.)	34.9
Population (Lakh)	0.6	Population Density (persons/sq.km.)	1719.2

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



60% Forests
 24.2% Net sown area
 0.2% Total Fallow Land
 14.1% Not under Cultivable Land
 1.3% Uncultivable land excluding Fallow Land

Geographical Area (Thousand Hectares)	1,049
Area for Land Utilisation Statistics (Thousand Hectares)	1,049

(ISRO, 2019)

(Ministry of Agriculture and Farmers Welfare, 2021)[1]

SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator

RANK: 15 Score: 65



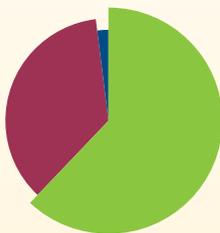
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

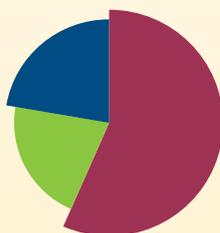
Agartala is having 70% piped water supply as per baseline in 2015 and AMRUT mission target is 90% (60% will be covered by ongoing ADB & JNNURM Projects).

Indicators: ↑Highest ↓Lowest

State Scenario



Piped Water Supply 62.05%
 Groundwater 35.95%
 Surface Water Body 1.98%



Near Premises 21.1%
 Within Premises 56.6%
 Away 22.3%

Source of Water

Piped Water Supply	Groundwater	Surface Water Body
↑ North Tripura 74%	↑ West Tripura 51.5%	↑ Dhalai 4.3%
↓ West Tripura 47%	↓ North Tripura 24.6%	↓ South Tripura 0.7%

Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source

Near Premises	Within Premises	Away
↑ South Tripura 23.9%	↑ West Tripura 77%	↑ Dhalai 33.9%
↓ West Tripura 13.8%	↓ Dhalai 42.4%	↓ West Tripura 9.2%

(Census of India, 2011)

■ Specific Cities

Access to Sanitation

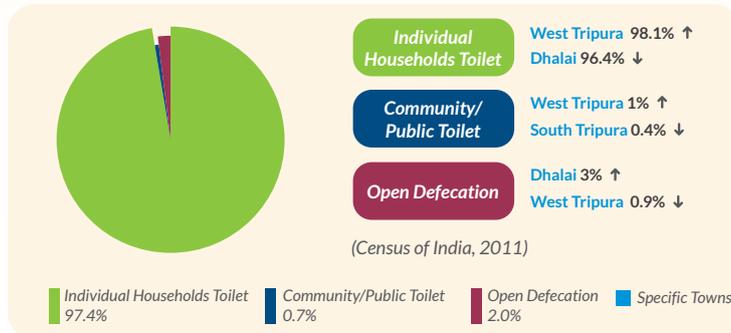
The state has secured 25th rank in Swachh Survekshan 2021.

Total ULB/Cities - 20

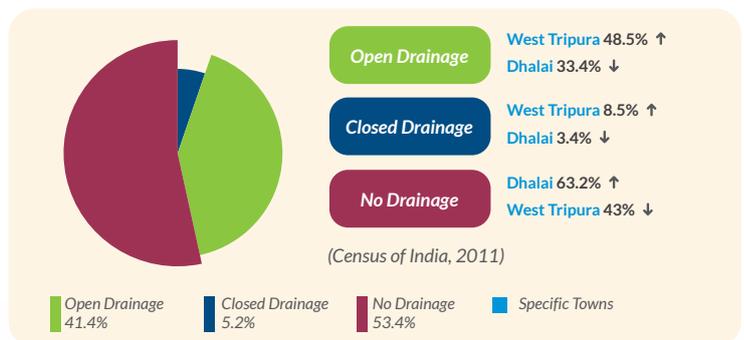
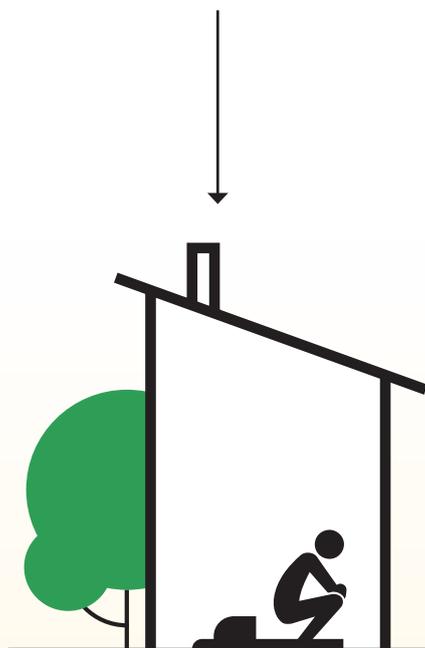
Individual Household Toilet Target: 19,464 | Target Achieved: 107.5%

Community/Public Toilet Target: 586 | Target Achieved: 185.84%

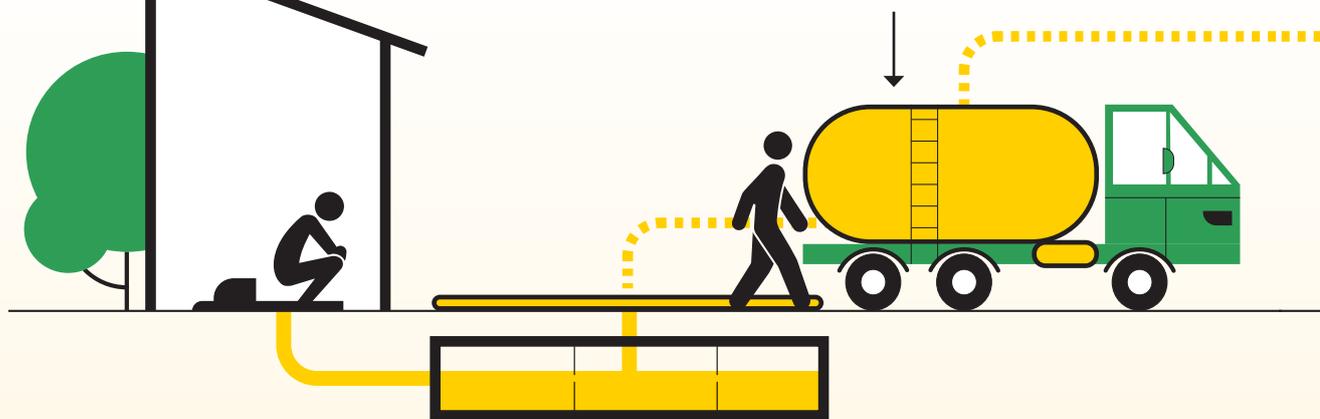
ODF: 20 ULBs | ODF+: 6 ULBs



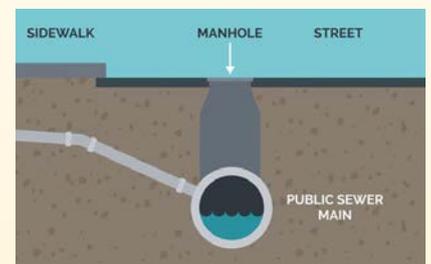
Access to Toilet



Conveyance Mechanism



Containment*



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewer or non-sewered sanitation system. Closed drainage refers to sewer sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

Total Treatment capacity:

8 MLD

Installed STP capacity:

8 MLD

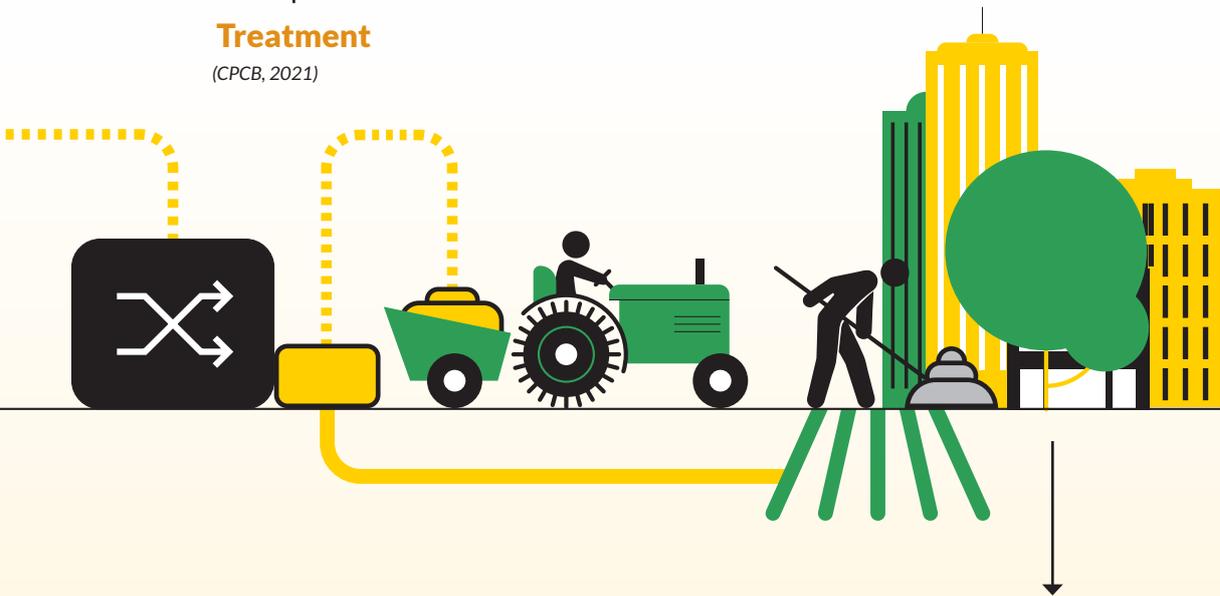
Operational STP Capacity:

8 MLD

Total Sewage generation
237 MLD

Treatment

(CPCB, 2021)



Enduse/Disposal

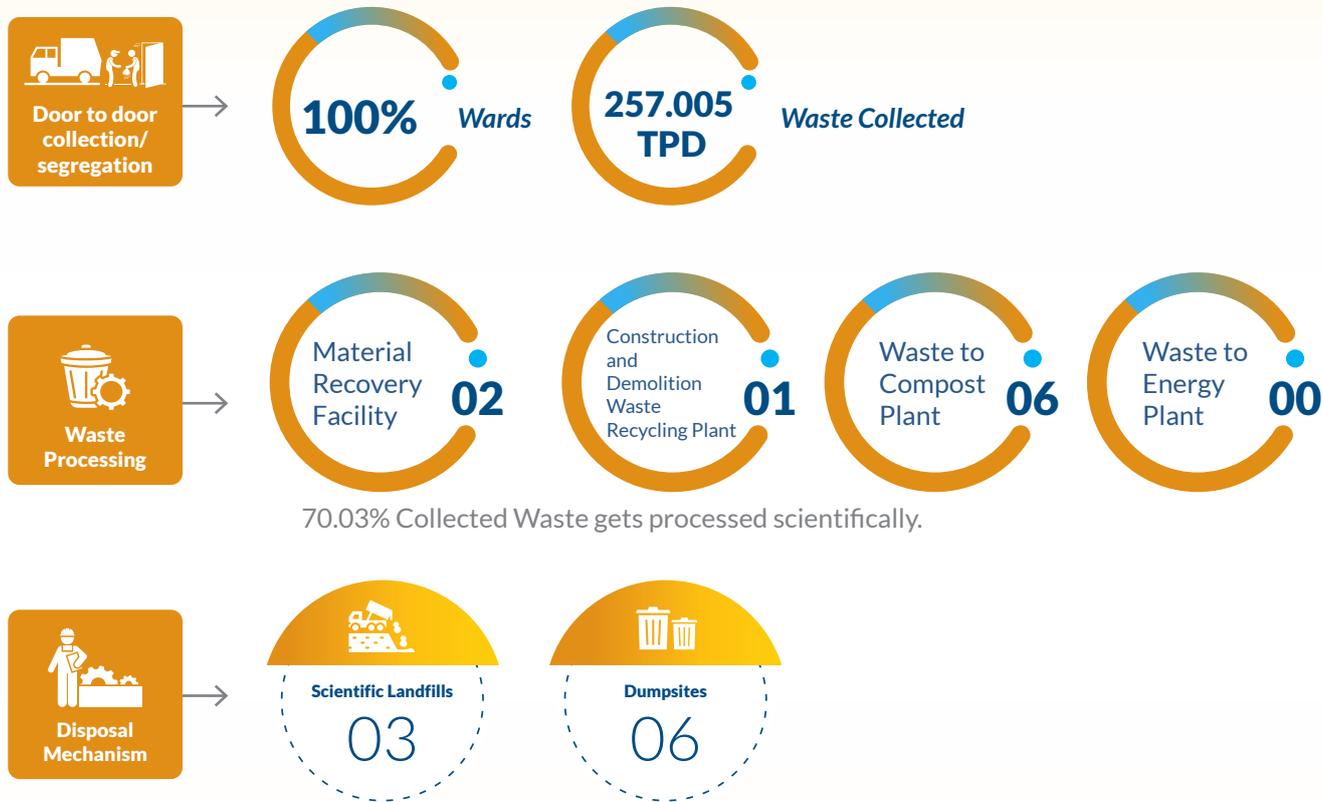
Surface Water Discharge:
81.25%

Reuse for watering city parks, gardens, roads etc.
18.75%



Solid Waste Management

No Garbage Free City



(SBM Urban,2022)

School Sanitation

4,844
Institutions

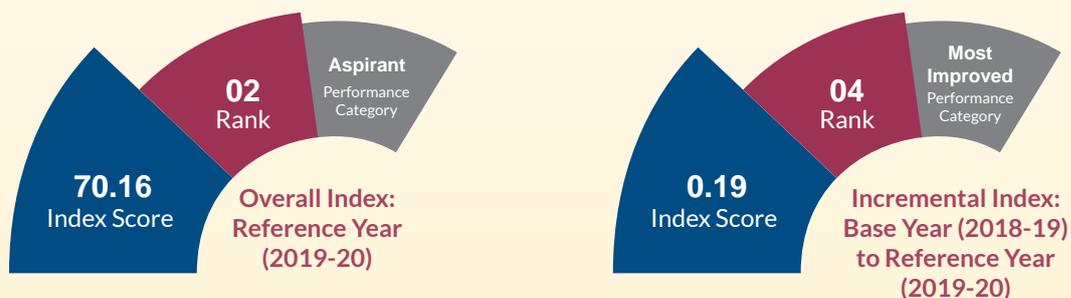
89.84%
Drinking Water Facility

99.86%
Girls' Toilet

Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Agartala	Agartala

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 148.25 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 156 crore (2021 - 2026)



(State Annual Action Plan (SAAP), Tripura 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants – Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

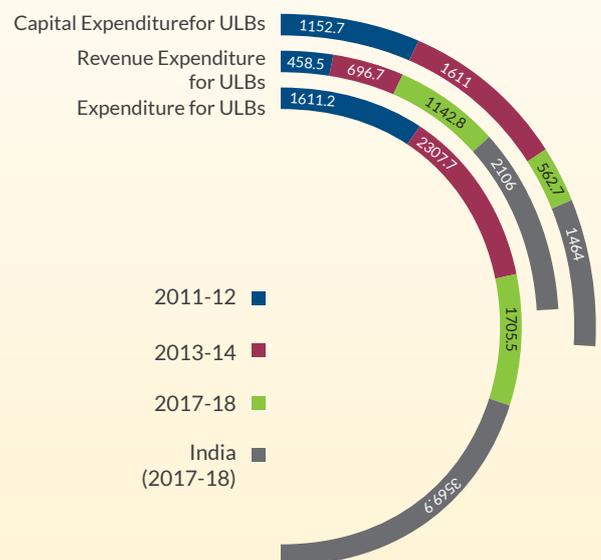
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Uttarakhand

Capital	Gairsain (summer) Dehradun (winter)
Districts	13
Area	53,566 km ²
Total Population (2011)	1,00,86,292
Density	189 persons/km ²
Elevation	2,189.31 m above MSL

Source: Various

Geography

Uttarakhand is also known as Uttaranchal situated in the northern part of India. It borders the Tibet Autonomous Region of China to the north, the Sudurpashchim province of Nepal to the east, the Indian states of Uttar Pradesh to the south and Himachal Pradesh to the west and north-west. Most of the northern part of the state is covered by high Himalayan peaks and glaciers.

Climate

Uttarakhand has a temperate highland tropical climate with dry winters. Floods and landslides are problems during the rainy season in the lower stretches of the valleys.

Yearly average temperature	23.67°C
Annual precipitation	92.31 mm
Rainy days	110.55 rainy days

Source: Various

Demography

As per census 2011, 30.23 % of the total population resides in urban areas and 69.77 % resides in rural areas.

Population

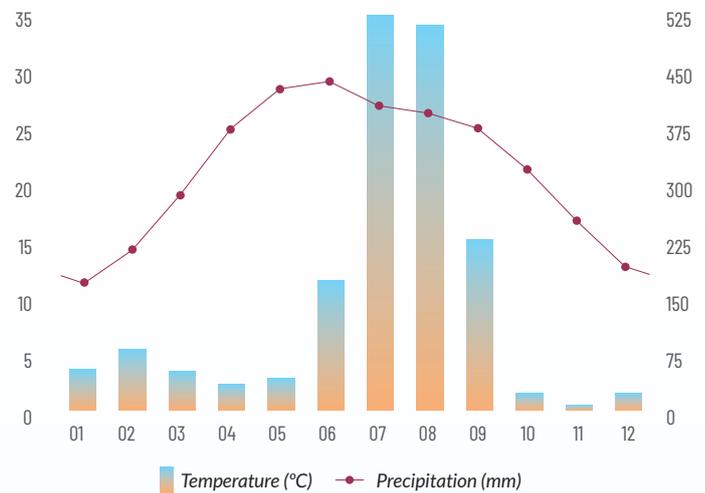


(Ministry of Health & Family Welfare, 2020)[2]

Decadal Variation



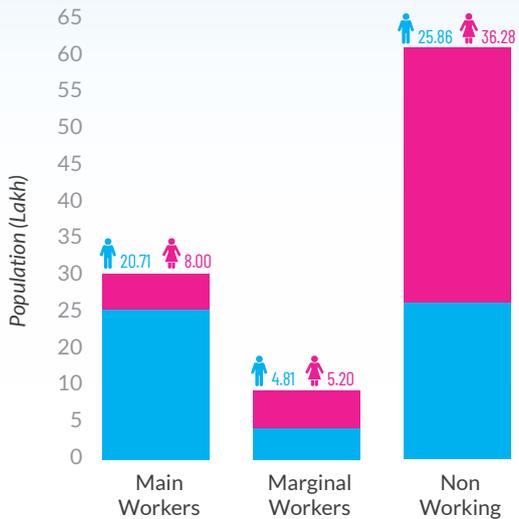
(Census of India, 2011)



Sex Ratio

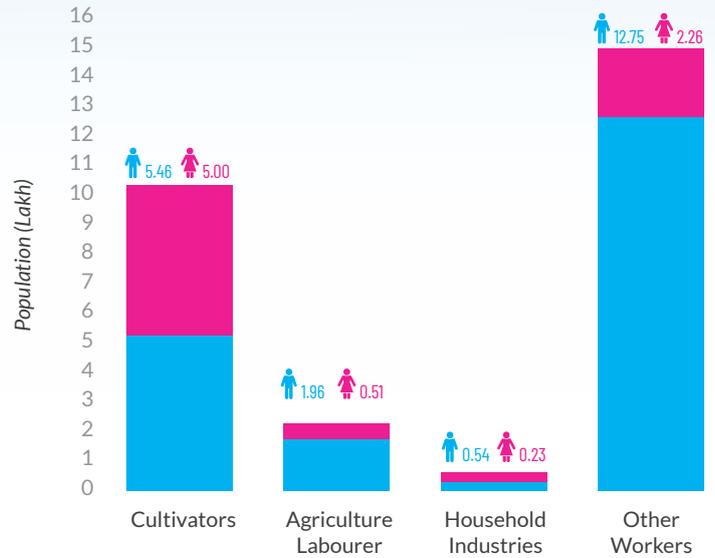


Working & Non Working Population

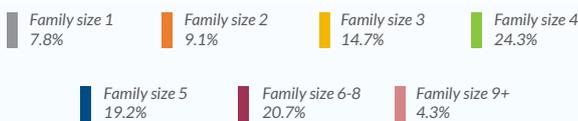


(Census of India, 2011)

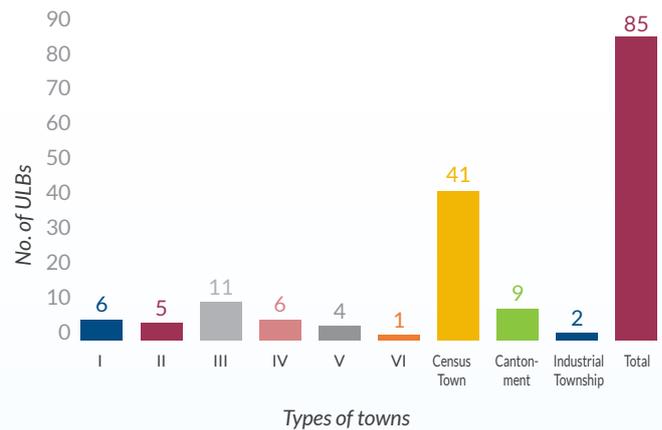
Main Workers



Family Size



Class of Towns



(Census of India, 2011)

Urban Local Body (ULB)

Municipal Corporations

Number	8	Area (sq.km.)	155.79
Population (Lakh)	15.4	Population Density (persons/sq.km.)	9885.1

Municipal Councils

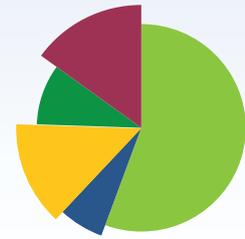
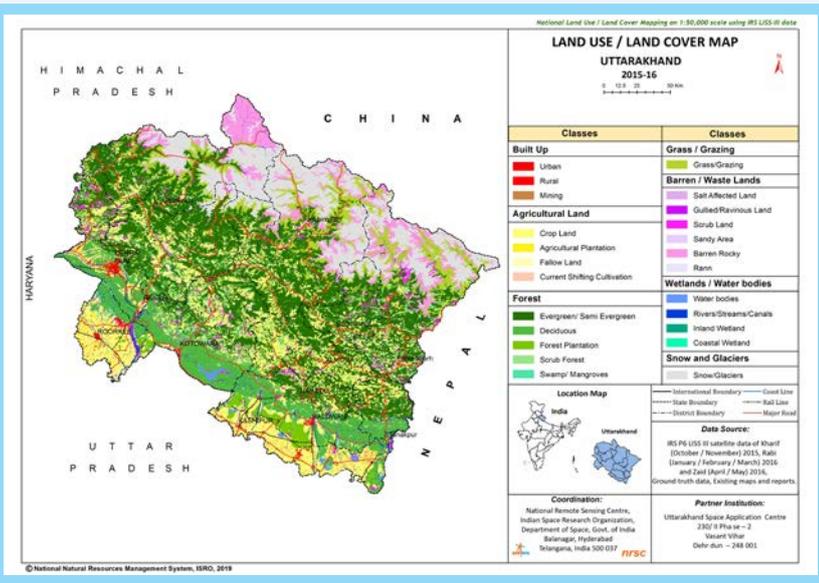
Number	42	Area (sq.km.)	439.01
Population (Lakh)	10.5	Population Density (persons/sq.km.)	2391.7

Nagar Panchayats

Number	42	Area (sq.km.)	148.6
Population (Lakh)	2.9	Population Density (persons/sq.km.)	1951.5

(Indian Council for Research on International Economic Relations, 2019)[3]

Land use



63.5% Forests
7.2% Not under Cultivable Land
10.8% Net sown area
15.5% Uncultivable land excluding Fallow Land
2.9% Total Fallow Land

Geographical Area (Thousand Hectares)	5,348
Area for Land Utilisation Statistics (Thousand Hectares)	6,002

(ISRO, 2019)

(Ministry of Agriculture and Farmers Welfare, 2021)[1]

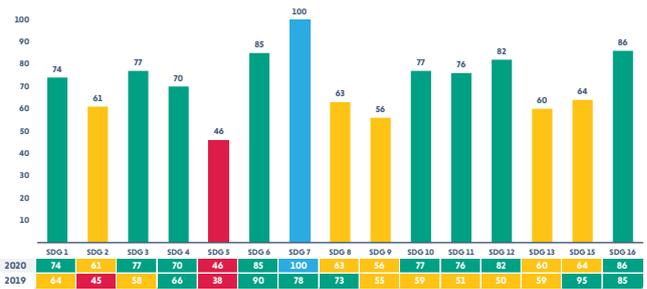
SDG Status

The SDG India Index and Dashboard is a crucial tool in India's SDG monitoring efforts. Designed and developed by NITI Aayog, the Index measures the progress at the national and sub-national levels towards meeting the Global Goals and targets



Performance by Indicator

RANK: 5 Score: 72



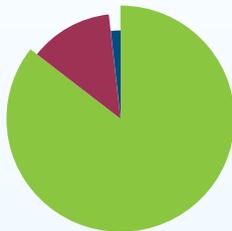
(NITI Aayog and United Nations, 2021) [7]

Access to Water Supply

Dehradun is having 78%, Haridwar is having 90%, Haldwani is having 80%, Rudrapur is having 11%, Kashipur is having 15%, and Roorkee is having 41% piped water supply as per baseline in 2015 and AMRUT mission target is 100% piped water supply.

Indicators: ↑ Highest ↓ Lowest

State Scenario



Piped Water Supply 85% Groundwater 13% Surface Water Body 2%

Source of Water

Piped Water Supply	Groundwater	Surface Water Body
↑ Rudraprayag 98%	↑ Udham Singh Nagar 54.9%	↑ Chamoli 4.8%
↓ Udham Singh Nagar 44.1%	↓ Rudraprayag 0.7%	↓ Tehri Garhwal 0.4%

Note - Piped Water connection includes supply of water sourced from groundwater i.e. Well, handpump, tubewell, borewell and spring, and surface water bodies i.e. River, canal, pond and lake.

Proximity to the Water Source

Near Premises	Within Premises	Away
↑ Bageshwar 18.9%	↑ Tehri Garhwal 94.1%	↑ Bageshwar 12.3%
↓ Tehri Garhwal 4.5%	↓ Bageshwar 68.8%	↓ Tehri Garhwal 1.4%

(Census of India, 2011)

■ Specific Cities

Near Premises 9.7% Within Premises 84.9% Away 5.4%

Access to Sanitation

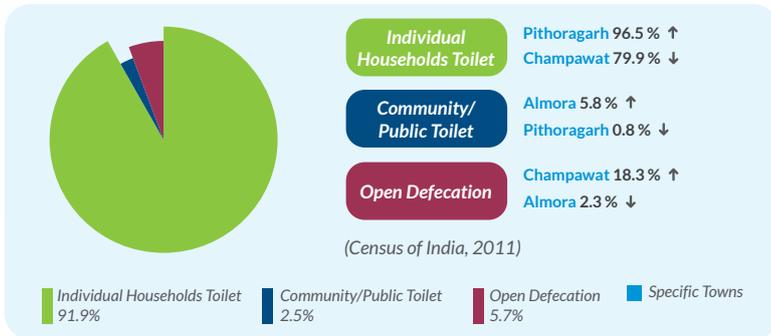
The state has secured 15th rank in Swachh Survekshan 2021.

Total ULB/Cities – 102*

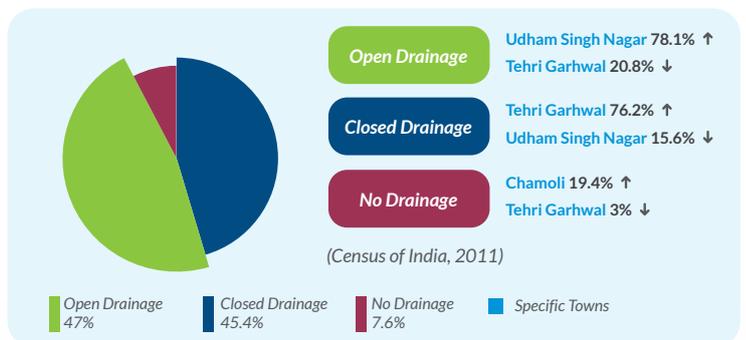
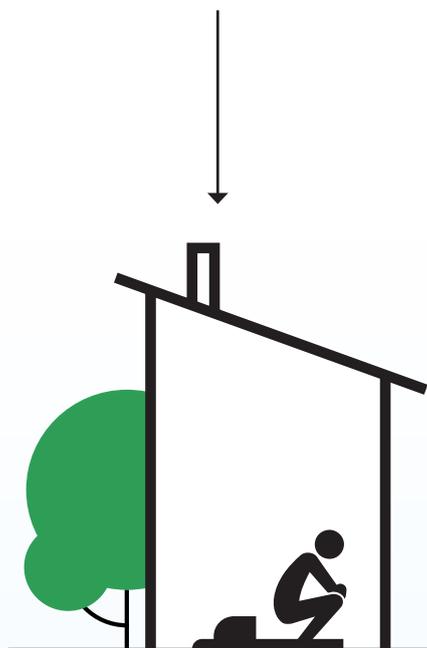
Individual Household Toilet Target: 27,640 | Target Achieved: 86.83%

Community/Public Toilet Target: 2611 | Target Achieved: 177.8%

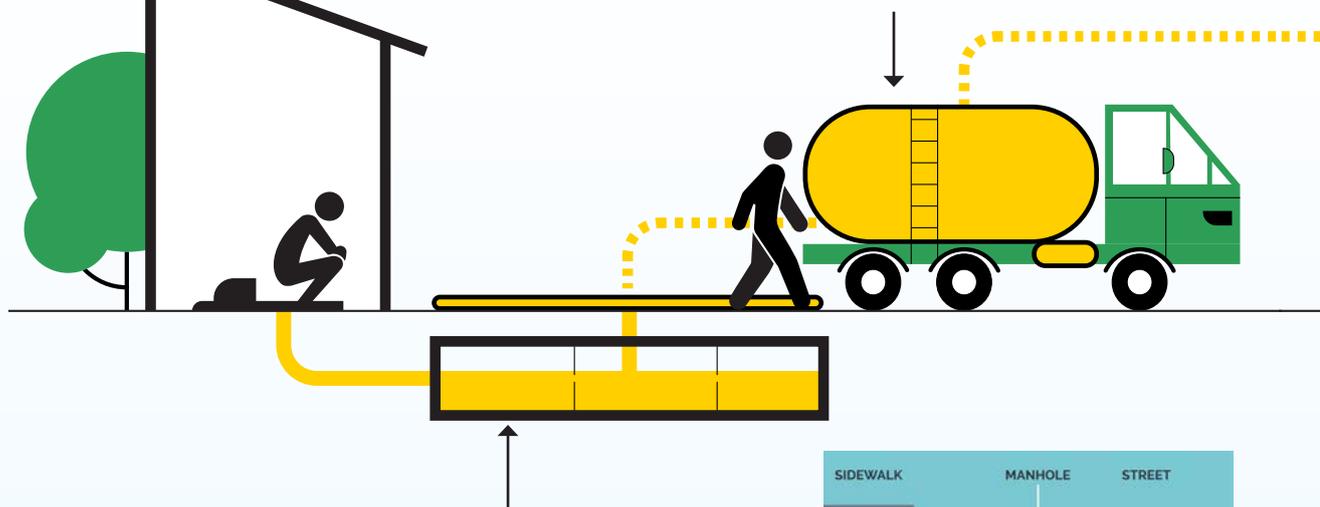
ODF: 102 ULBs | ODF+: 64 ULBs | ODF++: 3 ULBs



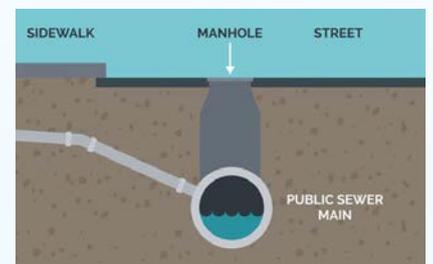
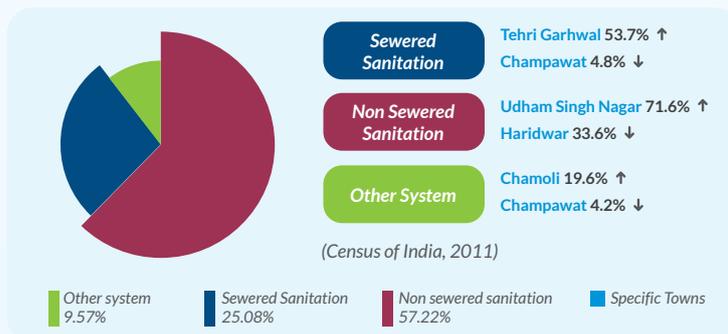
Access to Toilet



Conveyance Mechanism



Containment*



Note- Drainage refers to type of drainage connectivity for waste water outlet connected to sewerage or non-sewered sanitation system. Closed drainage refers to sewerage sanitation system. Open drainage refers to non-sewered sanitation and other systems connected to open drains. No drainage refers to having onsite disposal mechanism

*Attributing percentage of Individual Household Toilet

Operational
STP Capacity:
504.41 MLD

Total Sewage
generation
372 MLD

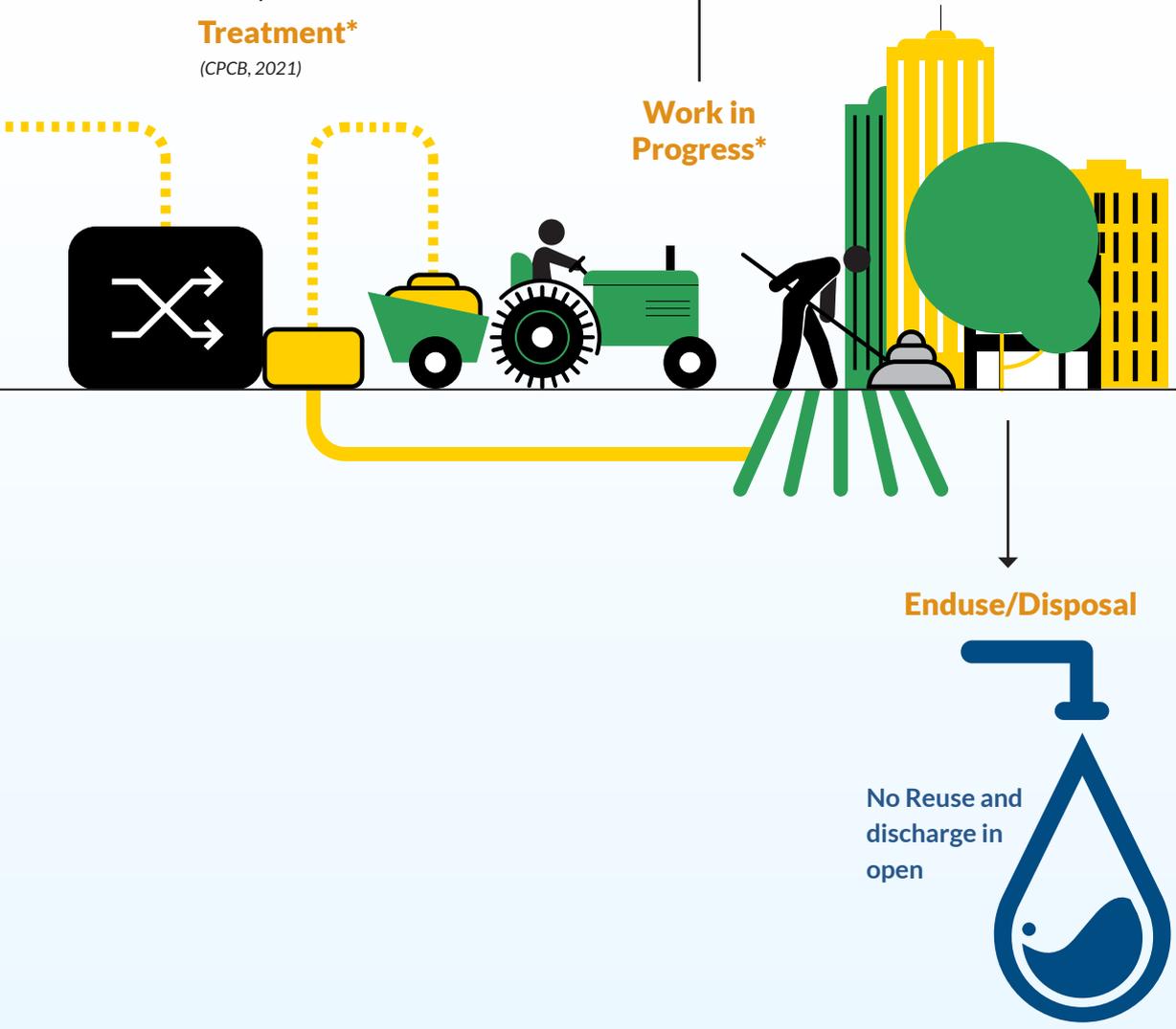
FSTP under Construction
125KLD
STP Proposed/ Under Construction*
93.3 MLD

Treatment*
(CPCB, 2021)

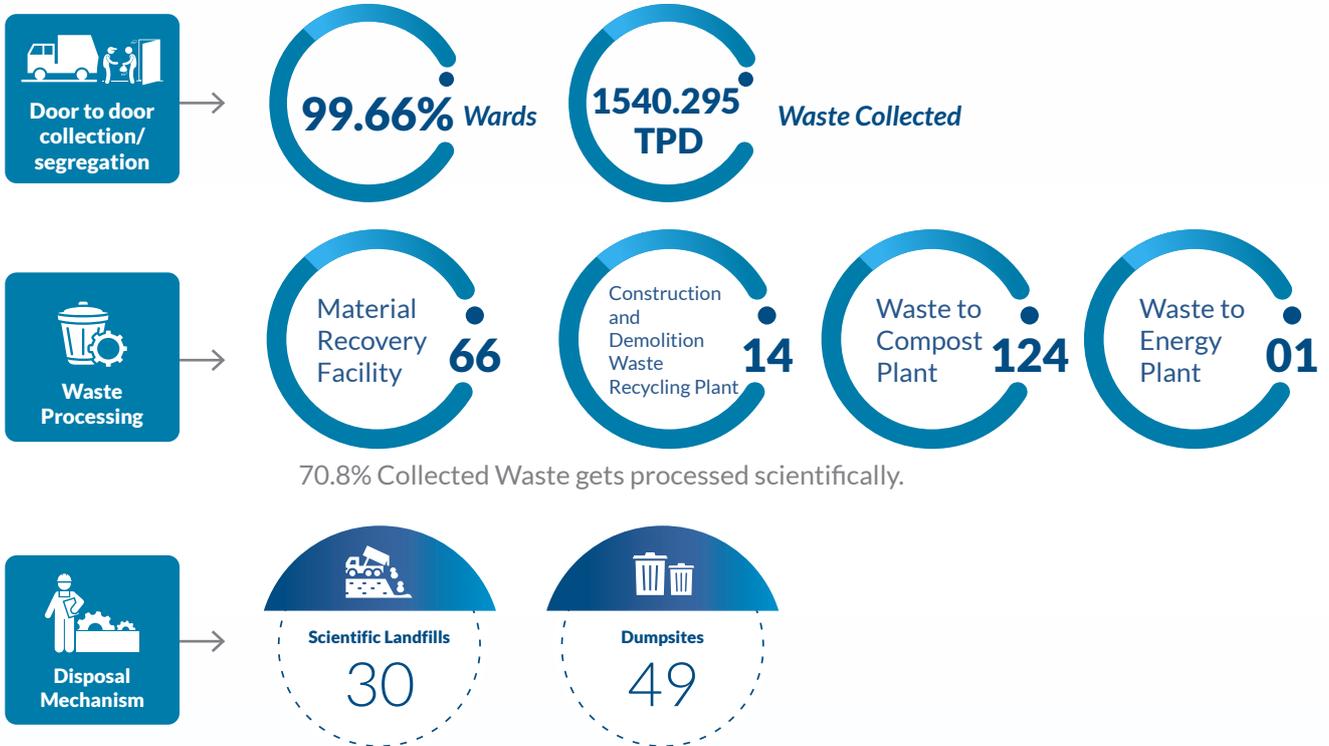
Work in
Progress*

Enduse/Disposal

No Reuse and
discharge in
open



Solid Waste Management



(SBM Urban,2022)

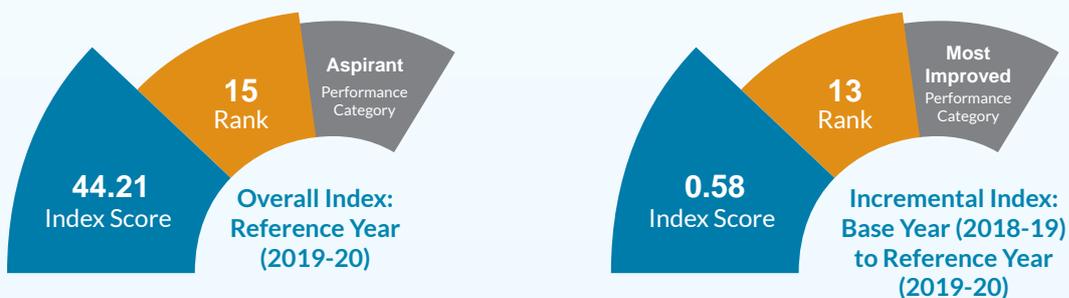
School Sanitation



Source: (National Institute of Educational Planning & Administration, 2018) [8]

Note: Institutions include primary, upper primary, secondary and senior secondary schools.

Health and Hygiene



(Ministry of Health and Family Welfare, 2021)[9]

Note: Health Index: A weighted composite index based on 24 indicators under the domain of health outcomes, governance and information and key inputs and processes. It is a tool which measures health which changes over time for different geographic areas.

Status of National Missions and Programs

AMRUT Program Cities	Smart City Program Cities
Dehradun, Haldwani, Haridwar, Kashipur, Nainital, Roorkee, Rudrapur	Dehradun

SBM Budget Allocation



(Ministry of Housing & Urban Affairs, 2021) [4]

Total AMRUT 1.0 Budget: INR 593.02 crore (2015 - 2020)

Total AMRUT 2.0 Budget: INR 582 crore (2021 - 2026)



(State Annual Action Plan (SAAP), Uttarakhand 2017-20)[5]

15th Finance Commission for 2021-26 Grants to State (in Rs Crore)



(15th Finance Commission Report for 2021-26)[6]

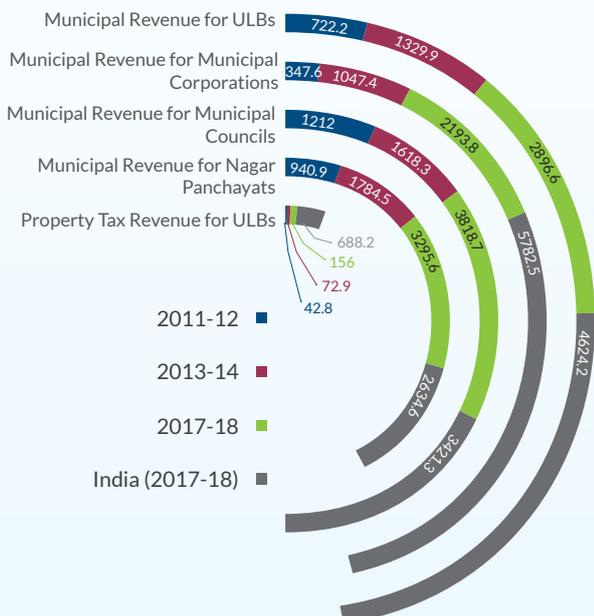
Grants to local bodies – Health grants, Rural local bodies, and Urban local bodies.

Sector specific grants – Health, PMGSY Roads, Statistics, Judiciary, Higher Education, Agriculture.

State specific grants – Social needs, administrative governance and infrastructure, water and sanitation, preservation of culture and historical monuments, high-cost physical infrastructure, and tourism.

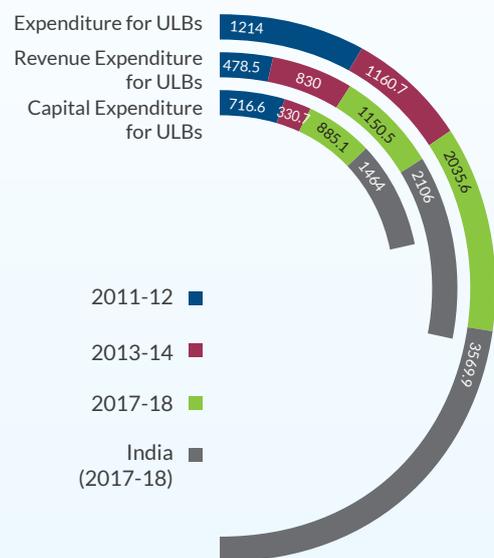
State Municipal Finances

Municipal Revenue [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Municipal Expenditures [INR per capita]



Indian Council for Research on International Economic Relations, 2019)[3]

Bibliography

- [1] DES, "Land Use Statistics at a glance 2009-10 to 2018-19," p. 154, 2021, [Online]. Available: https://eands.dacnet.nic.in/LUS_2017-18/Land Use Statistics at a Glance 2008-09 to 2017-18.pdf
- [2] Government of India, "Population Projections for India and States 2011 - 2036-Report of The Technical Group On Population Projections, July,2020," pp. 26-32, 2020, [Online]. Available: https://main.mohfw.gov.in/sites/default/files/Population Projection Report 2011-2036 - upload_compressed_0.pdf
- [3] O. Mathur, D. Roy, A. Khare, and S. Mangla, "State of Municipal Finances in India," no. March, 2019.
- [4] Ministry of Drinking Water & Sanitation, "Swachh Bharat Mission Objectives," no. June, p. 0, 2010, [Online]. Available: <http://www.mdws.gov.in/sites/default/files/SwachBharatGuidlines.pdf>
- [5] AMRUT, "State Annual Action Plan (SAAP) 2017-20," 2017.
- [6] India, "Report of the 15 th Finance Commission for 2021-26," no. 011, 2021, [Online]. Available: https://prsindia.org/files/policy/policy_committee_reports/Report Summary_15th FC_2021-26.pdf
- [7] GoI, "SDG India Index & Dashboard 2020-21 report," Partnerships Decad. Action, p. 348, 2021, [Online]. Available: https://niti.gov.in/writereaddata/files/SDG_3.0_Final_04.03.2021_Web_Spreads.pdf
- [8] Ministry of Human Resource Development, "Educational Statistics at a Glance 2018," Educ. Stat. a Glance, pp. 1-127, 2018, [Online]. Available: https://www.mhrd.gov.in/sites/upload_files/mhrd/files/statistics-new/ESAG-2018.pdf
- [9] NITI Aayog, "Health States Progressive India: Health Index Round IV 2019-20," Minist. Heal. Fam. Welf., no. 4, 2021, [Online]. Available: <http://indiabudget.nic.in/ub2013-14/eb/sbe47.pdf>

Research and data analysis: Continuous research, data collection, and analysis are essential for evidence-based decision-making. Regular monitoring and evaluation of development initiatives in the hilly states will be carried out to help identify gaps, measure progress, and make informed policy decisions.

Information dissemination: The report will serve as a single-window source of information. The following version of the report will provide comprehensive and up-to-date information on specific focus area of the states under WASH. The information will be disseminated to various stakeholders, including policymakers, government agencies, researchers, NGOs, and the general public through workshops and conferences

Prioritize areas for intervention: The report will aid in the identification and prioritization of specific thematic areas for targeted interventions in the respective states. This will enable the implementation of in-depth interventions that serve as model projects within the region.

In conclusion, the publication on 'State of Water and Sanitation in Hill States' serves multiple purposes, ranging from information dissemination and policy formulation to accountability, advocacy, and long-term planning. These reports play a crucial role in improving water and sanitation services, promoting sustainable development, and enhancing the well-being of communities. Thus, the report will be a living document which will undergo periodic publication at regular intervals.

ANNEXURE STATUS REPORT

The annexure provides comprehensive data on the hill states of the IHR in terms of states profile, climatic conditions, demography, and administrative details. This is followed by insightful details on forestry and agriculture cover, access to Water, Sanitation, Solid Waste Management. The sections end with municipal finances of the states in the IHR.

State Profile

Table 1 gives the profile of the states in the IHR. It can be observed that Arunachal Pradesh and Assam are the two largest states in the IHR with an area of 83,743 km² and 78,438 km² respectively. Jammu and Kashmir has the highest average elevation of 2,717 m above MSL whereas Tripura has the lowest average elevation of 65 m above MSL.

Table 1: Profile of hill states

Sr. No.	Details	State Profile		
		State or Union Territory	Districts	Area [km ²]
1	Arunachal Pradesh	25	83,743	534
2	Assam	35	78,438	198
3	Himachal Pradesh	12	55,673	2,197
4	J&K	20	42,241	2,717
5	Manipur	16	22,327	790
6	Meghalaya	12	22,429	1,528
7	Mizoram	11	21,081	592
8	Nagaland	16	16,579	1,334
9	Sikkim	6	7,096	838
10	Tripura	8	10,492	65
11	Uttarakhand	13	53,566	2,189

Source: Various

Climatic Condition

The climatic conditions among the states in the IHR varies based on their altitude and the geographic location. The table below provides information on the climatic conditions in the states in IHR. The highest annual average temperature of 26.43 oC is recorded in the state of Tripura whereas the lowest is observed in the state of Sikkim. Similarly, the highest precipitation is recorded in the state of Meghalaya (301.2 mm) and least is recorded at Jammu and Kashmir (40.73 mm).

Table 2: Climatic conditions in the hill states

Sr. No.	Details State or Union Territory	Climate		
		Minimum and Maximum temperature [°C]	Precipitation [mm]	Rainy days
1	Arunachal Pradesh	13 - 30	3300 - 4100	188
2	Assam	7-36	1800-3000 mm	191
3	Himachal Pradesh	minus 18 - 35	1251 mm	146
4	Jammu and Kashmir	minus 2 - 31	750 mm	72
5	Manipur	1 - 34	1650 mm	161
6	Meghalaya	8 - 23	10,507	236
7	Mizoram	10 - 30	2500	173
8	Nagaland	4 - 40	1800-2500	207
9	Sikkim	0 - 28	1270 - 5080	168
10	Tripura	10 - 33	2000	187
11	Uttarakhand	7 - 38	1500	110

Compiled from Wikipedia, Britannica and various Government/Research gate webpages

The highest number of rainy days are observed in Meghalaya, where it rains almost 237 days in a year whereas the least has been observed in Jammu and Kashmir (73 days) due to its relatively dry climatic conditions.

Demography

According to the Census of India (2011), the state with highest population is Assam (3.12 crore); followed by Jammu and Kashmir (1.22 crore), and Uttarakhand (1 crore). The state with highest portion of population staying in urban areas is Ladakh (84%); followed by Mizoram (52.11%). The rest of the states have urban population less than India's national average of 31.16%.

Population Growth Rate

Table 3 provides the details on population, its growth rate in the last decade and share of the population residing in the urban centres of the state. As per the Census of India (2011), Meghalaya has recorded the highest population growth in India of 27.90%, followed by Arunachal Pradesh (26.00%). The other states having population growth rate higher than India's average growth rate are Manipur (24.50%), Jammu & Kashmir (23.60%), Mizoram (23.50%), Uttarakhand (18.80%) and Ladakh (17.70%).

Table 3: Population growth rate from 2001 to 2011 in the hill states

Sr. No.	State or Union Territory	Population	Decadal growth	Urban population	Percent urban
		(2011)	(2001-2011)		
1	Arunachal Pradesh	13,83,727	26.00%	3,17,369	22.94
2	Assam	3,12,05,576	17.10%	43,98,542	14.10
3	Himachal Pradesh	68,64,602	12.90%	6,88,552	10.03
4	Jammu and Kashmir	1,22,67,032	23.60%	32,02,812	26.11
5	Ladakh	2,74,000	17.80%	2,30,160	84
6	Manipur	25,70,390	24.50%	7,76,515	30.21
7	Meghalaya	29,66,889	27.90%	5,95,450	20.07
8	Mizoram	10,97,206	23.50%	5,71,771	52.11

Sr. No.	State or Union Territory	Population	Decadal growth	Urban population	Percent urban
		(2011)	(2001-2011)		
9	Nagaland	19,78,502	-0.6%	5,70,966	28.86
10	Sikkim	6,10,577	12.90%	1,53,578	25.15
11	Tripura	36,73,917	14.80%	9,61,453	26.17
12	Uttarakhand	1,00,86,292	18.80%	30,49,338	30.23
	India	1,21,05,69,573	17.70%	37,71,06,125	31.16

(Source: Census 2011)

Population Density

Although the population growth rate is alarmingly high, the population density in the Hill states remains low due to difficult terrain, unfavourable climatic conditions, and inaccessibility. Table 4 shows the population density in each Hilly State and Union Territory in the IHR. Except for Assam (398 persons/km²), all other states have lower population densities when compared India's average population density (382 persons per km²). Ladakh has the lowest population density of 2.8 persons/km².

Table 4: Population density of the hill states

Sr. No.	State or Union Territory	Population Density [person/km ²]
1	Arunachal Pradesh	17
2	Assam	398
3	Himachal Pradesh	123
4	Jammu and Kashmir	297
5	Ladakh	3
6	Manipur	122
7	Meghalaya	132
8	Mizoram	52
9	Nagaland	119
10	Sikkim	86
11	Tripura	350
12	Uttarakhand	189
Total	India	382

(Source: Census 2011)

Sex Ratio

One of the key demographic factors of the human population around which meaningful analysis is woven is the distribution of the population by gender. The interaction of sex disparities in natality, death, and migration leads to the sex ratio. In a number of ways, a population's gender distribution reflects the socio-economic and cultural trends of a society.¹

Sex ratio is the number of females per 1000 males. Table 5 gives the ratio for each state and union territory in the IHR. The sex ratio is highest in the state of Meghalaya (989). The other states which have higher sex ratio as compared to India's average of 940 females per 1000 males are Manipur (985), Mizoram (976), Himachal Pradesh (972), Uttarakhand (963), Tripura (960) and Assam (958).

¹[https://www.ijhssi.org/papers/vol12\(1\)/J12017989.pdf](https://www.ijhssi.org/papers/vol12(1)/J12017989.pdf)

Table 5: Sex ratio of the hill states

Sr. No.	State or Union Territory	Sex Ratio [females per 1000 males]
1	Arunachal Pradesh	938
2	Assam	958
3	Himachal Pradesh	972
4	Jammu and Kashmir	889
5	Manipur	985
6	Meghalaya	989
7	Mizoram	976
8	Nagaland	931
9	Sikkim	890
10	Tripura	960
11	Uttarakhand	963

(Source: Census 2011)

Working Population

The socio-economic condition of the population residing in the state can be gauged using the employment status. In 2011, the workforce in the Hill States as a Region (41.02%) was higher than that in the Non-Hill States as a Region (39.75%) and India (39.80%).² Table 6 provides bifurcation of working demography in the states and union territories in the IHR. It can be observed that the average percentage of the population working as main workers which are employed throughout the year is 30% which matches India's percent of main working population. The average percentage of the population working as marginal workers and non-working workers are 12% and 58%, respectively. The highest percent of main workers population i.e. 38% is seen in the state of Mizoram and Sikkim; whereas the lowest is seen in Tripura 9%. The lowest percent of non-working population is observed in the state of Himachal Pradesh (48%). This is due to the job opportunities in agriculture, orchards, and small/large scale industries across the states.

Table 6: Details of working demography in the Hill states

Sr. No.	Details	Main Workers (in percent)			Marginal Workers (in percent)			Non-Working (in percent)		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
1	Arunachal Pradesh	35	63	37	8	45	55	58	46	54
2	Assam	28	81	19	11	46	54	62	38	62
3	Himachal Pradesh	30	70	30	22	40	60	48	44	56
4	Jammu Kashmir	21	87	13	13	53	47	66	42	58
5	Manipur	34	63	37	12	38	62	54	45	55
6	Meghalaya	31	64	36	9	45	55	60	44	56
7	Mizoram	38	63	37	7	38	62	56	43	57
8	Nagaland	37	60	40	12	45	55	51	48	52
9	Sikkim	38	70	30	13	44	56	50	43	57
10	Tripura	9	85	15	14	40	60	78	38	62
11	Uttarakhand	28	72	28	10	48	52	62	42	58
India		30	75	25	10	49	51	60	40	60

²[https://www.ijhssi.org/papers/vol12\(1\)/J12017989.pdf](https://www.ijhssi.org/papers/vol12(1)/J12017989.pdf)

Source: Census 2011

Table 7 gives the information on the female working population in the hill states in India. It is worth mentioning that the percentage of female working population is higher in the states of IHR. Eight of the 11 states have a female working population higher than that of India's average i.e. 12%. The highest percent of female working population (22%) are in the state of Himachal Pradesh and Nagaland closely followed by Manipur (20%).

Table 7: Female working population in the states in IHR

Sr. No.	Details	Female Working Population	
		Persons	Percent
1	Arunachal Pradesh	2,37,384	17%
2	Assam	34,28,130	11%
3	Himachal Pradesh	15,16,049	22%
4	J&K	11,27,623	9%
5	Manipur	5,65,202	20%
6	Meghalaya	4,81,910	16%
7	Mizoram	1,95,965	18%
8	Nagaland	4,26,765	22%
9	Sikkim	1,13,780	19%
10	Tripura	2,71,647	10%
11	Uttarakhand	13,20,354	13%
India		14,99,48,993	12%

Source: Census 2011

Administrative Details

Due to the geography and terrain, the states in IHR do not have a lot of large cities. It can be observed in Table 8, that these states have a large number of small towns (Class IV and below). The small towns have different kinds of difficulties when compared to large cities. These urban local bodies are low on human resources and technical experts. Typically, the municipal finances which are discussed in the Section 4.9 are also not in good shape and it becomes difficult for these towns to provide basic environmental sanitation services to its residents properly.

Table 8: Class wise number of towns in the hill states in India

Sr. No.	State or Union Territory	I	II	III	IV	V	VI	Census Towns	Cantonment Board	Industrial Township
1	Arunachal Pradesh	0	1	3	7	7	7	2	0	0
2	Assam	1	0	3	9	14	5	182	0	0
3	Himachal Pradesh	1	0	7	6	14	21	3	7	0
4	Jammu and Kashmir	3	4	11	22	29	13	34	2	0
5	Manipur	1	0	5	7	12	2	24	0	0
6	Meghalaya	1	1	2	1	0	0	15	1	0
7	Mizoram	0	0	0	0	0	0	23	0	0
8	Nagaland	1	1	1	0	0	0	23	0	0
9	Sikkim	1	0	0	2	2	2	2	0	0
10	Tripura	1	0	5	9	1	0	26	0	0
11	Uttarakhand	6	5	11	6	4	1	41	9	2
Total		16	12	48	69	83	51	375	19	2

(Source: Census 2011)

As per the Indian administrative structure of the state, there are three types of ULBs in the states – Municipal Corporation, Municipal Council and Nagar Panchayats. Table 9 provides the numbers of each type of ULB in the states under IHR.

Table 9: Number of ULBs in the states of Indian Himalayan Region

Sr. No.	State or Union Territory	Number of ULBs		
		Municipal Corporations	Municipal Councils	Nagar Panchayats
1	Arunachal Pradesh	0	2	0
2	Assam	1	31	56
3	Himachal Pradesh	2	31	21
4	Jammu and Kashmir	2	76	0
5	Manipur	1	21	5
6	Meghalaya	0	6	0
7	Mizoram	1	0	0
8	Nagaland	0	3	29
9	Sikkim	1	3	3
10	Tripura	1	13	6
11	Uttarakhand	8	42	42
Total		17	228	162

Source: Census 2011

As stated earlier, small towns face different kinds of challenges. These challenges are augmented by the low techno-economic feasibility of the environmental sanitation services due to low population density and the topography. Table 10 shows the varying population density of the three types of ULBs in the states under IHR.

Table 10: Population density in the ULBs of hill states in India

Sr. No.	State or Union Territory	Population Density [persons/km ²]		
		Municipal Corporation	Municipal Council	Nagar Panchayat
1	Arunachal Pradesh	–	1,946	–
2	Assam	4,428	2,880	5,482
3	Himachal Pradesh	5,125	2,432	1,170
4	Jammu and Kashmir	4,073	2,931	–
5	Manipur	9,131	1,714	1,905
6	Meghalaya	–	4,847	–
7	Mizoram	2,232	–	–
8	Nagaland	–	6,171	2,545
9	Sikkim	5,184	2,326	4,320
10	Tripura	5,752	2,054	1,719
11	Uttarakhand	9,885	2,392	1,952
Average Population Density		5,055	2,662	3,430

(Source: Census 2011)

Higher population density provides an opportunity to make municipal services more affordable to the residents of the city; however, there are only 17 Municipal Corporations with average population density of 5,055 persons per km², compared to 228 and 162 Municipal Councils and Nagar Panchayats with average population density of 2,662 and 3,430 persons per km², respectively.

Land Use

Table 11 shows the total geographic area, the area under land utilisation statistics and the forest. The Indian Himalayan Region states are well known for their forest cover. As seen in the table below, the average percent of land under forest is 59%. The highest coverage is in Arunachal Pradesh (93%), followed by Manipur and Mizoram, both of which have 78%. The least forest coverage is seen in the states of Assam and Himachal Pradesh 24% and 25%, respectively..

Table 11: Forest cover in the states in IHR

Sr. No.	State or Union Territory	Land Use		
		Geographical Area	Area for Land Utilisation Statistics	Forests
1	Arunachal Pradesh	8374	7172	93%
2	Assam	7844	7844	24%
3	Himachal Pradesh	5567	4577	25%
4	Jammu and Kashmir	22224	4130	57%
5	Manipur	2233	2161	78%
6	Meghalaya	2243	2196	41%
7	Mizoram	2108	2039	78%
8	Nagaland	1658	1653	52%
9	Sikkim	710	441	76%
10	Tripura	1049	1049	60%
11	Uttarakhand	5348	6002	64%

Source: Ministry of Agriculture 2021

Table 12 gives details of the non-forest land use in the states in IHR. The state with largest area under fallow land and net sown area is Tripura; followed by Assam and Nagaland.

Table 12: Land use details in the hill states in India (source: Ministry of Agriculture 2021)

Sr. No.	State or Union Territory	Land Use			
		Not under Cultivable Land	Uncultivated land excluding Fallow Land	Total Fallow Lands	Net area sown
1	Arunachal Pradesh	1%	2%	1%	3%
2	Assam	32%	7%	3%	35%
3	Himachal Pradesh	25%	37%	2%	12%
4	Jammu and Kashmir	14%	8%	4%	17%
5	Manipur	1%	0%	0%	20%
6	Meghalaya	13%	25%	10%	12%
7	Mizoram	4%	3%	9%	7%
8	Nagaland	7%	8%	10%	23%
9	Sikkim	2%	2%	3%	17%

Sr. No.	State or Union Territory	Land Use			
		Not under Cultivable Land	Uncultivated land excluding Fallow Land	Total Fallow Lands	Net area sown
10	Tripura	14%	1%	24%	46%
11	Uttarakhand	7%	16%	11%	17%

Access to Water

To understand the access to water in the state, Census of India provides two parameters – source of water and proximity to the water source. Table 13 provides the details of access to water from Census of India 2011 for the states in the IHR. Access to piped water supply is good in these states with an average of 68%. However, dependence of groundwater is high in some states such as Assam, Mizoram, Nagaland and Meghalaya. Access to water directly through surface water bodies is highest in Manipur (27%), followed by Nagaland (21%).

Table 13: Percent of households having access to different source of water in hill states

Sr. No.	State or Union Territory	Source of Water [% of total households]		
		Piped water supply	Groundwater	Surface Water Body
1	Arunachal Pradesh	90	8	2
2	Assam	25	72	3
3	Himachal Pradesh	95	4	1
4	Jammu and Kashmir	83	13	5
5	Manipur	42	31	27
6	Meghalaya	60	34	5
7	Mizoram	68	44	8
8	Nagaland	40	40	21
9	Sikkim	94	5	1
10	Tripura	62	36	2
11	Uttarakhand	85	13	2
Average		68	27	7

Source: Census 2011

The proximity to the source of water signifies the time and efforts invested by the household to access water and indirectly provides insights on water consumption behaviour and perception towards water and its usage. Table 14 provides the details of average proximity to the water source in the states or union territories in the IHR. Uttarakhand has the highest percent of households with piped water supply. Proximity to source is not good in the states Nagaland and Manipur where access to water is largely met by surface water bodies.

Table 14: Percent of households having different proximity to the source of water in hill states

Sr. No.	State or Union Territory	Proximity to Source [% of total households]		
		Within premises	Near premises	Away
1	Arunachal Pradesh	67	27	7
2	Assam	78	14	8
3	Himachal Pradesh	32	4	1
4	Jammu and Kashmir	73	17	10
5	Manipur	30	43	27

Sr. No.	State or Union Territory	Proximity to Source [% of total households]		
		Within premises	Near premises	Away
6	Meghalaya	44	37	19
7	Mizoram	43	39	18
8	Nagaland	38	33	29
9	Sikkim	75	18	7
10	Tripura	57	21	22
11	Uttarakhand	85	10	5
Average		57	24	14

Source: Census 2011

Access to Sanitation

Access to sanitation is gauged using access to toilet, conveyance, treatment and safe disposal or reuse.

Access to Toilet

As per the Census of India 2011, the access to toilets is better in the IHR states. It can be observed from Table 15 that the average access to Individual household toilets is 92%. However, it is expected that post Swachh Bharat Mission's first phase, the access to toilets must have improved significantly as all the states have been declared ODF.

Table 15: Access to toilet in the hill states in India

Sr. No.	State or Union Territory	Access to Toilet [% of total urban households]		
		Individual Household Toilet	Community/ Public Toilet	Open Defecation
1	Arunachal Pradesh	86	4	10
2	Assam	92	1	6
3	Himachal Pradesh	89	3	8
4	Jammu and Kashmir	84	2	14
5	Manipur	96	2	2
6	Meghalaya	93	2	5
7	Mizoram	98	1	1
8	Nagaland	93	3	5
9	Sikkim	95	4	2
10	Tripura	97	1	2
11	Uttarakhand	92	2	6
Average		92	2	5

Source: Census 2011

Access to Collection and Conveyance

Access to collection and conveyance show how the septic effluent and grey water is being managed in the states. The higher percentage of households without a drainage system indicates that these households have soak pits or other arrangements for wastewater management at the household level. This is beneficial for the ULB and the state government as less utility infrastructure is needed for wastewater management. Table 16 provides the percent of the total urban households and the options of collection and conveyance to which they are connected.

Table 16: Details of access of collection and conveyance in the Hill states

Sr. No.	State or Union Territory	Collection and Conveyance [% of total urban households]		
		Closed Drainage	Open Drainage	No Drainage
1	Arunachal Pradesh	15	51	33
2	Assam	11	34	55
3	Himachal Pradesh	59	33	8
4	Jammu and Kashmir	26	50	23
5	Manipur	6	59	35
6	Meghalaya	13	49	39
7	Mizoram	14	55	31
8	Nagaland	6	61	33
9	Sikkim	22	65	13
10	Tripura	5	41	53
11	Uttarakhand	45	47	8
Average		20	50	30

Source: Census 2011

The highest percentage of households managing wastewater on site is in the state of Assam (55%), followed by Tripura (53%). The states where wastewater from 92% of the households is managed by drainage networks (mostly surface drains) is Uttarakhand and Himachal Pradesh.

Treatment

As per the National Inventory of Sewage Treatment Plants in India published by CPHEEO in March 2021, the total sewage generation in IHR is 3,086 MLD. Table 17 gives the details of capacity of the treatment infrastructure in the hill states in the IHR. The total capacity of the treatment infrastructure in the IHR states is 1033 MLD; out of which 884 MLD (86%) is the capacity of installed infrastructure and 149 MLD (14%) is the capacity of proposed infrastructure. It should be noted that not all the installed infrastructure is operational.

It is worthy to note that Himachal Pradesh has treatment capacity (155 MLD) and installed capacity (136 MLD) of the treatment infrastructure higher than the sewage generated in the state (116 MLD). Uttarakhand has a total treatment capacity of 85% of the sewage generated.

Table 17: Inventory of the STPs in the states in IHR

Sr. No.	State or Union Territory	Total Sewage Generation (MLD)	Total Treatment Capacity (MLD)	Installed STP Capacity (MLD)	Proposed STP Capacity (MLD)
1	Arunachal Pradesh	62	0	0	0
2	Assam	809	0	0	0
3	Himachal Pradesh	116	155	136	19
4	Jammu and Kashmir	665	222	218	4
5	Manipur	168	93	44	49
6	Meghalaya	112	0	0	0
7	Mizoram	103	10	10	0
8	Nagaland	135	0	0	0
9	Sikkim	52	30	20	10
10	Tripura	237	8	8	0

Sr. No.	State or Union Territory	Total Sewage Generation (MLD)	Total Treatment Capacity (MLD)	Installed STP Capacity (MLD)	Proposed STP Capacity (MLD)
11	Uttarakhand	627	515	448	67
Total		3086	1033	884	149

Source: CPCB 2021

Table 18 provides the detailed information of the installed capacity of the treatment infrastructure in the states in the IHR. Out of the installed treatment capacity of 884 MLD, only 590 MLD (67%) is the operational capacity and 260 MLD (29%) is capacity of the infrastructure under-construction. The infrastructure with a treatment capacity of 34 MLD (4%) is non-operational.

Table 18: Details of the installed stps in the hill states in India

Sr. No.	State or Union Territory	Installed STP capacity (MLD)	Operational STP capacity (MLD)	Non Operational STP capacity (MLD)	Under Construction STP capacity (MLD)
1	Arunachal Pradesh	0	0	0	0
2	Assam	0	0	0	0
3	Himachal Pradesh	136	99	0	37
4	Jammu and Kashmir	218	93	24	101
5	Manipur	44	27	0	17
6	Meghalaya	0	0	0	0
7	Mizoram	10	0	10	0
8	Nagaland	0	0	0	0
9	Sikkim	20	18	0	2
10	Tripura	8	8	0	0
11	Uttarakhand	448	345	0	103
Total		884	590	34	260

Source: CPCB 2021

Himachal Pradesh has the highest operational treatment capacity (85%), as compared to the sewage generated. This is followed by Uttarakhand, which has the capacity to treat 55% of the sewage generated in the state.

Reuse and Disposal

As per the SBM Urban Portal, only the state of Tripura reports reusing 18.75% of treated used water for watering city parks, gardens, and roads etc. All the other states have reported to discharge the treated used water into the surface water bodies, to maintain the environmental flow in the rivers.

Solid Waste Management

The Swachh Bharat Urban Portal provides details about the solid waste management at the state level. The data regarding door to door collection, waste processing and disposal mechanism is provided on the portal and has been compiled and analysed below in the sections 4.8.1, 4.8.2, and 4.8.3.

Under the SBM Phase I, MoHUA had also defined a parameter called Garbage Free City (GFC). Currently there are 7 GFC cities in the Indian Himalayan Region. The name of the seven cities and the states is provided in Table 19.

Table 19: Garbage free cities in the states in IHR

Sr. No.	State or Union Territory	Garbage Free City
1	Assam	Tezpur
2	Himachal Pradesh	Dharamshala
3	Manipur	Jiribam
4	Uttarakhand	Dehradun, Doiwala, Narendranagar, Rishikesh

Source: SBM Urban 2022

Door to Door Collection

Table 20 gives details of the quantity of solid waste collected and the collection efficiency. On an average, 87% of the wards are covered through door-to-door waste collection in the states under IHR. This results in cumulative collection of 5190 TPD of solid waste. Although Assam (1104 TPD) and Jammu and Kashmir (1160 TPD) have higher populations, the waste collected in these states is less than that in Uttarakhand (1540 TPD). The state of Sikkim and Tripura has 100% wards covered through door-to-door collection.

Table 20: Details of door-to-door collection of solid waste in the hill states of India

Sr. No.	Details	Door to door collection/segregation	
	State or Union Territory	Waste Collected (TPD)	Number of wards covered (%)
1	Arunachal Pradesh	111.45	97.4
2	Assam	1,103.77	89.41
3	Himachal Pradesh	170.91	97.44
4	Jammu and Kashmir	1,159.63	99.9
5	Manipur	48.25	98
6	Meghalaya	1.68	74.3
7	Mizoram	163.27	52.68
8	Nagaland	559.79	49.05
9	Sikkim	73.78	100
10	Tripura	257.01	100
11	Uttarakhand	1,540.30	99.66
	Total	5,189.82	87.08

(Source: SBM Urban 2022)

Waste Processing Infrastructure

Table 21 provides the details of solid waste processing infrastructure in the states of the IHR. As per the SBM Urban Portal, there are 364 Material Recovery Facilities (MRF), 811 Waste to Compost Plants, 76 Construction and Demolition (C&D) Waste Recycling Plants and 14 Waste to Energy Plants. On an average, 44% of the collected waste gets scientifically processed in these states. The highest scientific waste processing happens in the state of Jammu and Kashmir (75%) and Himachal Pradesh (74%).

Table 21: Details of waste processing infrastructure in the hill states in India

Sr. No.	Details State or Union Territory	Waste Processing				
		MRF	Waste to Compost Plant	C&D Waste Recycling Plant	Waste to Energy Plant	Scientifically processed waste (%)
1	Arunachal Pradesh	9	2	1	0	29.2
2	Assam	174	346	9	2	60.5
3	Himachal Pradesh	51	63	36	5	73.76
4	Jammu and Kashmir	15	214	4	0	74.8
5	Manipur	30	29	9	5	93
6	Meghalaya	0	0	0	1	0
7	Mizoram	4	6	0	0	0.45
8	Nagaland	10	19	2	0	0.12
9	Sikkim	3	2	0	0	11.3
10	Tripura	2	6	1	0	70.03
11	Uttarakhand	66	124	14	1	70.8
	Total	364	811	76	14	44.00

Source: SBM Urban 2022

Disposal Mechanism

As per the data provided on the SBM Urban portal which has been compiled in the Table 22, there are more dumpsites (224) as compared to scientific landfills (101). The state of Uttarakhand has the highest number of scientific landfills (30 no.), followed by Jammu & Kashmir (27 no.), whereas the highest number of dumpsites are found in the state of Assam (66 no.).

Table 22: Details of disposal mechanism of solid waste in the states in Indian himalayan region

Sr. No.	Details State or Union Territory	Disposal Mechanism	
		Scientific Landfills	Dumpsites
1	Arunachal Pradesh	8	19
2	Assam	9	66
3	Himachal Pradesh	4	11
4	Jammu and Kashmir	27	44
5	Manipur	9	3
6	Meghalaya	1	6
7	Mizoram	10	8
8	Nagaland	0	12
9	Sikkim	0	0
10	Tripura	3	6
11	Uttarakhand	30	49
	Total	101	224

Municipal Finances

The State of Municipal Finances in India Report published by Indian Council for Research on International Economic Relations in March 2019 provides the details of municipal finances of the states in India. The tables in the following sections are compiled from the above report and provide the details for the Financial Year 2017-18.

Municipal Revenue and Property Tax

Table 23 provides the details of municipal revenues and property taxes in INR per capita for the financial year 2017-18. The municipal revenue of Himachal Pradesh (INR 4,460 INR per capita) is the highest in the IHR states and is very close to India's average of INR 4,624 per capita. Only 9% of the total municipal revenue in Himachal Pradesh comes from property taxes collected by ULBs across the state (INR 423/capita). Assam, on the other hand, has municipal revenue of INR 626 per capita; however, 32% i.e. INR 199 per capita, comes from property taxes, and the same is 26% i.e. INR 145 per capita, in case of Meghalaya.

Table 23: Details of Municipal Revenues and Property Tax (F.Y. 2017-18) of ULBs in the Hill states

Sr. No.	State or Union Territory	Municipal Revenue for ULBs [INR/capita]	Property Tax Revenue for ULBs	
			Absolute Value [INR/capita]	Share of Municipal Revenue[%]
1	Arunachal Pradesh	1,476	–	0%
2	Assam	626	199	32%
3	Himachal Pradesh	4,460	423	9%
4	Jammu and Kashmir	1,940	–	0%
5	Manipur	1,166	4	0%
6	Meghalaya	558	145	26%
7	Mizoram	1,162	73	6%
8	Nagaland	238	–	0%
9	Sikkim	907	–	0%
10	Tripura	3,593	46	1%
11	Uttarakhand	2,897	156	5%
12	India	4,624	689	14.9%

Source: ICRIER 2019

Municipal Revenue of ULBs

Table 24 provides the details of the municipal revenue for different types of ULBs in the states in IHR. The average municipal revenue of a municipal corporation in India is INR 5,782 per capita. Among the states in the IHR, the municipal revenue of municipal corporations is the highest in Himachal Pradesh (INR 5,821 per capita), followed by Tripura (INR 3,610 per capita).

Table 24: Details of Municipal Revenue (F.Y. 2017-18) of different types of ULBs in the hill states

Sr. No.	State or Union Territory	Municipal Revenue for Municipal Corporations [INR/capita]	Municipal Revenue for Municipal Councils [INR/capita]	Municipal Revenue for Nagar Panchayats [INR/capita]
1	Arunachal Pradesh	N.A.	1,476	N.A.
2	Assam	554	1,445	238
3	Himachal Pradesh	5,821	3,913	3,475
4	Jammu and Kashmir	1,928	1,956	N.A.
5	Manipur	701	1,525	1,487
6	Meghalaya	N.A.	558	N.A.
7	Mizoram	1,162	N.A.	N.A.
8	Nagaland	N.A.	450	75

Sr. No.	State or Union Territory	Municipal Revenue for Municipal Corporations [INR/capita]	Municipal Revenue for Municipal Councils [INR/capita]	Municipal Revenue for Nagar Panchayats [INR/capita]
9	Sikkim	837	959	1,171
10	Tripura	3,610	2,815	6,918
11	Uttarakhand	2,194	3,819	3,296
12	India	5,782	3,421	2,635

The average municipal revenue of India in the case of a municipal council is INR 3,421 per capita. In case of municipal councils, the municipal revenue is the highest in Himachal Pradesh (INR 3,913 per capita), followed by Uttarakhand (INR 3,819 per capita). The average municipal revenue of nagar panchayats in India is INR 2,635 per capita. In case of nagar panchayat, the municipal revenue is the highest in Tripura (INR 6,918 per capita), followed by Himachal Pradesh (INR 3,475 per capita).

Overall, it can be inferred that Himachal Pradesh and Tripura have enabling policies and taxation laws for strengthening the municipal revenues.

Municipal Expenditure

Table 25 provides details of municipal expenditure at state level in the IHR. The expenditure is further divided into two parts – revenue expenditure and capital expenditure. The average municipal expenditure of ULBs in India is INR 3,569 per capita, out of which the contribution towards revenue expenditure is INR 2,106 per capita, and towards capital expenditure is INR 1,464 per capita.

Table 25: Details of municipal expenditure (F.Y. 2017-18) in the states in IHR

Sr. No.	State or Union Territory	Expenditure for ULBs [INR/capita]	Revenue Expenditure for ULBs [INR/capita]	Capital Expenditure for ULBs [INR/capita]
1	Arunachal Pradesh	76	76	–
2	Assam	982	706	276
3	Himachal Pradesh	5,335	2,699	2,637
4	Jammu and Kashmir	1,603	1,502	101
5	Manipur	821	315	506
6	Meghalaya	570	415	155
7	Mizoram	1,803	745	317
8	Nagaland	192	156	36
9	Sikkim	728	617	111
10	Tripura	1,706	1,143	563
11	Uttarakhand	2,036	1,151	885
12	India	3,569	2,106	1,464

(Source: ICRIER 2019)

The municipal expenditure is highest in the case of Himachal Pradesh. Except in the case of Manipur, the revenue expenditure exceeds capital expenditure. When municipal revenue in Table 23 is compared to municipal expenditure in Table 25; it is interesting to note that municipal expenditure in Assam and Mizoram is nearly 1.5 times higher than their municipal revenue in F.Y. 2017-18.



National Institute of Urban Affairs

National Institute of Urban Affairs

1st Floor, Core 4B, India Habitat Centre, Lodhi Road, New Delhi - 110003

Phone: 011-24634971, 24643576

E-mail: niua@niua.org • Website: www.niua.in, scbp.niua.org