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DESIGN:
India's steady economic growth is reflected in the rapid expansion of her cities. India, today, is one of the fastest-growing large economies in the world. Our exponential growth is driven by urban centres where a growing proportion of the population gravitates to in search of economic opportunities. With the current urbanisation rate, India is expected to have 50 percent of the country's population residing in cities within the next 30 years.

This rising urbanisation promises more significant innovation and accelerates economic growth. It also puts tremendous pressure on available resources, which can be detrimental to the quality of life in cities. The Central Government is committed to planned urbanisation with the aim of providing a high quality of life for the people. The COVID-19 pandemic has reminded us that people are our most valuable resources. Our cities cannot be prosperous if people do not have access to housing, water and other basic amenities.

Under the leadership of the Hon'ble Prime Minister, Shri Narendra Modi the Central Government has unleashed the most comprehensive agenda for planned urbanisation. The flagship missions such as the Smart Cities Mission, Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Swachh Bharat Mission (Urban) and the Pradhan Mantri Awas Yojana (Urban) will transform the urban landscape.

I am pleased to launch the Ease of Living Index 2020. With its data-driven approach to evaluate the performance of 111 cities, the Index will be a valuable tool for city governments to understand the gaps in implementing the above programmes and tailor their strategies suitably. I urge governmental and non-governmental stakeholders involved in urban development to make the best use of this Index and strengthen the progress of Indian cities towards higher development trajectories.

(Hardeep S Puri)

New Delhi
01 March 2021
MESSAGE

Projections reveal that over 60 crore people i.e. 40% of total population are expected to live in urban areas by 2030. This number will increase to over 85 crore i.e. more than 50% of our population will be residing in urban India by 2050.

This swift urban expansion has put the development of urban spaces at the forefront of our policies and programs. Recognising the need to meet these challenges and convert them into opportunities, Ministry of Housing and Urban Affairs, under the vision of Hon’ble Prime Minister, launched a series of initiatives such as Deen Dayal Antyodaya Yojana-National Urban Livelihood Mission (DAY-NULM), Swachh Bharat Mission-Urban (SBM-U), Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Pradhan Mantri Awas Yojana- Urban (PMAY-U), Smart Cities Mission (SCM) Schemes/Projects for Urban Transport. These transformational Programmes/Schemes seek to address poverty alleviation, affordable housing, sanitation, infrastructural challenges, and harnessing technology to drive urban development.

Ministry developed Ease of Living Index to help assess urban areas' development and provide insights on how cities perform across sectors. In its second edition, Ease of Living Index, 2020, incorporates learning from the previous edition, expanding and refining the scope of the assessment. The Index examines citizens' quality of life in 111 cities across four pillars, 13 categories, and 49 indicators. The pillars comprise of Quality of Life, Economic Ability, Sustainability and Citizen's Perception Survey. These pillars expand across 13 categories: Education, Health, Housing & Shelter, WASH & SWM, Mobility, Safety & Security, Recreation, Economic Development, Economic Opportunities, Environment, Green spaces & Building, Energy Consumption and City Resilience. The framework includes a Citizens' Perception Survey, which examines service delivery satisfaction of the people. It allows residents of a city to evaluate their local governance and administration based on their public service delivery performance.

The learnings from this Index will enable cities to build practices that improve ease of living of their citizens and offer economic growth and sustainability in the long run. It will help Indian cities to achieve Sustainable Development Goals' outcomes by identifying local development goals and track their progress.

I want to commend the team Smart City Mission, India Smart Cities Fellows, Institute for Competitiveness, Karvy Data Management Services, and their supporting partners for their effort and hard work in developing the framework for this Index and providing comprehensive insights that guide urban management practices.

I hope this Index will motivate cities to focus their efforts to improve liveability and enhance ease of living to the citizens through concerted efforts.

(Durga Shanker Mishra)

New Delhi
26th February, 2021
MESSAGE

India's journey as a young, vibrant nation has been full of successes, with accomplishments in sciences, defence, arts, culture and welfare. While recent efforts to push for sustainable growth are commendable, much of this development is yet to achieve larger inclusion, especially across India's urban centres.

The idea of what constitutes a "good life" has been a point of debate for many philosophers. It has been fundamentally understood that it is Quality of Life that matters most to everyone, and public policy's role in achieving the same is paramount. Under Article 21 of the Indian Constitution, the Right to Life legally guarantees every person a certain modicum of life that ensures her dignity and personal growth. But it becomes imperative to initiate social and economic changes to help achieve this idea of socially engaging life, not just in letter but in spirit. And thus, access to specific basic amenities such as Housing, Water, Sanitation become imperative in ensuring a good quality of life. The Smart Cities Mission (SCM) has taken a step towards this objective by promoting cities that provide core infrastructure, good quality of life and a clean and sustainable environment through application of 'Smart' Solutions.

The Ease of Living Index 2020 has been a collaborative effort of the Ministry of Housing and Urban Affairs, city administrations, and other stakeholders. With four pillars, 13 categories and 49 indicators across 111 cities, the Index has been envisaged in a comprehensive manner. The Index has a Citizen Perception Survey component to gauge the citizenry's pulse concerning their Ease of Living. With this, the Ministry has sought to facilitate Smart Cities and other Million+ population cities in assessing their present status, which will eventually lead to better planning and management.

With its outcome-based approach, the Index provides several insights into urban liveability standards prevalent in the country. Most cities have emerged as good performers in this index, adding to the confidence that we are moving in the right direction of improving Ease of Living in Indian cities. That being said, the scope of improvement in the performance of some cities is immense, and the scores also reveal regional disparities across different categories of assessment. The diversity in regional needs must thus reflect in urban development and planning efforts undertaken to improve Ease of Living.

This initiative of the Ministry of Housing and Urban Affairs to help cities assess their ease of living vis-a-vis national and global benchmarks such as the Sustainable Development Goals (SDGs) promises to be a transformational endeavour. I am thankful to all stakeholders, for participating in this Index and strengthening the spirit of competitive and cooperative federalism. I firmly believe that this collaborative exercise will allow conversion of challenges into opportunities, that will go a long way in strengthening the practice of urban development in the country.

New Delhi
01st March, 2021
Economic growth is intricately linked with urbanisation. Studies show that nearly all countries that have achieved middle-income status were urbanised by at least 50 percent, and the countries that have attained high-income status were urbanised by about 70-80 percent. It is debatable how the causality flows but economic growth of countries is closely related to the movement of people to cities and the concentration of talent in urban spaces drives productivity, job creation, and economic growth.

So, India’s path to higher growth is intertwined with the success of its urban spaces. The country, however, has had a unique relationship with urbanisation. The pace of urbanisation in India has not kept pace with the rate of economic growth. In fact, the rate of urbanisation between 2001 and 2011 was lower than in the second half of the previous century. This trend is surprising given that the opposite was true for economic growth.

While these anomalies in India’s urbanisation trends are a subject of extensive research, it has been realised that the development of the urban sprawl in the periphery of cities is a leading cause. Such a nature of urban development has made it crucial to assess the ease of living in Indian cities, which has been placed at the forefront by the Ministry of Housing and Urban Affairs. An assessment of urban living and identification of areas where the cities are lacking can drive impactful change in urban governance.

The Ease of Living Index is an effort to work towards these goals. Building on learnings from the previous edition, the Ease of Living Index 2020 presents a revised framework that evaluates 111 cities under three pillars. The index has also been validated by a Citizen Perception Survey to provide insights directly from the residents on the level of development in their cities.

I hope that the findings from the index outlined in this report help decipher the state of urban development in India, and ultimately drive evidence-based policymaking. The primary objective of the Ease of Living Index is to achieve improved development outcomes across Indian cities.

I am pleased that the Institute for Competitiveness was engaged by the Ministry of Housing and Urban Affairs to redesign the methodological framework of the index and analyse the data obtained. I would like to extend my gratitude to Shri Hardeep Singh Puri, Minister of Housing and Urban Affairs, Shri Durga Shanker Mishra, Secretary, MoHUA, Shri Kunal Kumar, Mission Director, Smart Cities Mission, MoHUA Shri Rahul Kapoor, Director, Smart Cities Mission, MoHUA, Smt. Reema Jain, Deputy Director, AMRUT, and everyone in the Ministry of Housing and Urban Affairs who has been a part of this study for enabling its success.

The study would also not have been possible without the tireless efforts of various teams who have been a part of the project including Karvy Data Management Services, National Informatics Centre, the City Data Officers, the Smart City Consultants, and the Smart City Fellows. Finally, I would also like to thank my colleagues at the Institute for Competitiveness – Chirag Yadav, Manisha Kapoor, Aniruddh Dutta, Sreetama Basu, Disha Sharma, and Harshula Sinha – who have played an indelible role in taking this study to fruition.

(Amit Kapoor)
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The rapid pace of urban expansion that India is registering has necessitated a greater push for urban development schemes and interventions lately. The Government of India's (GoI) sincere efforts can be confirmed by the slew of programmes launched in the last 6-7 years. Deen Dayal Antyodaya Yojana-National Urban Livelihood Mission (DAY-NULM), Swachh Bharat Mission-Urban (SBM-U), Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Pradhan Mantri Awas Yojana-Urban (PMAY-U), Smart Cities Mission (SCM) Schemes/Projects for Urban Transport, and the Heritage City Development and Augmentation Yojana (HRIDAY) are some of the flagship programmes of the Ministry of Housing and Urban Affairs aimed at improving the quality of life in cities.

The Ease of Living (EOL) Index was born out of the need to measure the outcomes of the aforementioned programmes and verify whether these interventions were effective in ushering progress in urban India. For this purpose, the EOL Index evaluates the well-being of citizens in 111 cities, which comprises cities identified under the Smart Cities Mission, capital cities and cities with a population of over 1 million. As a data-driven evaluation tool that quantifies the performance of cities across several parameters, the index also serves to empower cities to use evidence-based planning and implementation. The metrics used for assessment also align with the Sustainable Development Goals (SDGs), making EOL a convenient means of tracking urban India’s progress towards achieving the SDGs in cities.

The first edition of the index was launched in 2018. The framework for the same, launched in 2017, was composed of indicators adapted from various national/international indicator sets and service level benchmarks. It covered 78 indicators across 15 evaluation criteria, viz. governance, identity and culture, education, health, safety and security, economy, affordable housing, land use planning, public open spaces, transportation and mobility, assured water supply, waste-water management, solid waste management, power, and quality of environment.

The latest edition uses a reformed framework built on the learnings derived from the last edition. After the launch of the first edition, the need for greater emphasis on outcomes was recognised for assessing ease of living in cities. Accordingly, the original framework has been split into two- one for assessing outcome indicators and the other for assessing input indicators. The EOL index strictly focuses on assessing outcome indicators as assessing the quality of life of citizens.
can be better captured through outcomes rather than inputs. On the other hand, the second framework for assessing input indicators is utilised in preparing the Municipal Performance Index (MPI), which evaluates the performance indicators that are enabling factors contributing to the output.

Therefore, in the latest edition, the EOL index evaluates development outcomes across four pillars — Quality of Life, Economic Ability, Sustainability, and Citizens Perception Survey — covering 49 indicators examined under 14 categories. The Citizens Perception Survey is a new component added to the framework to capture the perception of citizens about the quality of life in their cities. The survey was administered both online and offline and conducted between February and March, 2020.

This report presents a cross-country comparison, region-level analysis, and a pillar-level analysis of the findings of the study. In the subsequent sections, the report also provides key insights derived from the analyses, such as the regional disparities reflected in the index scores, the contribution of metropolitan cities in the average national score, the alleviation of the overall index scores after including the Citizen Perception Scores, and so on. At the end, the report presents policy recommendations that can help stakeholders convert the learnings into actionable plans.

The successful completion of this project is owed to the dedicated efforts of the entities involved, and the cooperation and enthusiasm displayed by the states and cities in participating in this exercise. It is hoped that Indian cities, with the help of this Index, are able to strengthen their urban policies, planning and implementation initiatives, and take India closer to achieving a better quality of life for its citizens and closer to the fulfilling the SDGs.
Learnings from the First Edition of Ease of Living and Non-Comparability of Scores

The Ease of Living Index 2020 carries a revised framework that draws on the learnings from the first edition of the index released in 2018. The scope and parameters of the index were expanded based on the feedback received from key stakeholders and urban experts. A significant revision is in the form of separation of the outcome and input parameters that determine the ease of living of citizens. The latter has been incorporated as the Municipal Performance Index, which accompanies the Ease of Living Index 2020.

For instance, the Governance pillar from the previous edition of the index has now been moved to the Municipal Performance Index while Education and Health have been segregated into both Ease of Living Index and Municipal Performance Index based on the nature of the indicators.

Apart from the segregation of the indicators into input and outcome indicators, there have been significant revisions in the framework of Ease of Living itself. The index carries a 30 percent weightage on the Citizen Perception Survey, for instance, to understand whether the data collected maps with the perception that citizens hold about the city.

Due to these improvements to the index, it is important to note that the scores of the current edition are not comparable with Ease of Living Index 2018.
Executive Summary

The swift pace of urban expansion brings the promise of immense economic growth. It is estimated that Asia, and particularly countries like India will be at the forefront of this expansion. For Indian cities, which comprises of distinct geographies and diverse communities of people, this growth also brings extensive challenges.

The rise in the concentration of urban population vastly outpaces the capacity of local city administration catering to the needs of the people. Inadequate infrastructure, depleting resources, concentration of slums, rising poverty, and environmental degradation coupled with vast social and economic inequalities are just some of the burning issues that require immediate attention.

However, without a diagnostic tool to assess the level of development and extent of issues in India’s urban agglomerations, it becomes increasingly difficult to tackle such challenges.

The Ease of Living Index 2020 presents itself as an evaluation tool that reflects the ease of living in Indian cities. It seeks to examine the impact of urban development programs and the quality of life and economic and social opportunities available to the citizens. It measures the ease of living across three pillars: Quality of Life, Economic Ability, and Sustainability. The index is further strengthened by a fourth pillar, the Citizen Perception Survey, which aims...
to obtain and incorporate views of the citizens regarding the services provided by their city administration.

The pillar-wise scores help cities assess their level of development and identify existing gaps that obstruct their growth. The Ease of Living Index promotes healthy competition through rankings and incentivises them to improve further and even emulate the best practices from their peer cities. Moreover, the distinction between cities with more than a million population and those with less than a million population establishes a fair comparison among cities. The measures of this index also align with the Sustainable Development Goals (SDG). It can be utilised to track the progress of cities on the Ease of Living pillars to fulfil the SDG targets set by India.

With the help of the Ease of Living Index 2020 and the release of subsequent editions of the index, policymakers, urban planners and practitioners, and urban local authorities, can use the findings and learnings to implement reforms and measures that propagate urban development, and provide a better quality of life for the people.
01. Introduction

In the *State of World Population 2007: Unleashing the potential of Urban Growth*, the United Nations Population Fund (UNFPA) argues that,

“...the current concentration of poverty, slum growth and social disruption in cities does paint a threatening picture: Yet no country in the industrial age has ever achieved significant economic growth without urbanisation. Cities concentrate on poverty, but they also represent the best hope of escaping it..."
Perhaps it is this “hope” that drives close to 55 percent of the world population to live in urban settlements. By 2045, the urban population is expected to increase 1.5 times to 6 billion, adding 2 billion more residents. India has one of the highest urbanisation rates. At 37.7 crores, India’s urban residents accounted for 31 percent of the population as per the Census of 2011. Estimates project this population share to increase up to 60 crores (40%) by 2030 and over 80 crores (50%) by 2050.

A host of reasons drive this rapid expansion of urbanisation, including better employment and economic opportunities, access to health care facilities, and an expected higher standard of living. Cities have come to play an increasingly important role in driving economic growth, leading to higher per capita income and facilitating innovation, thereby enhancing the quality of life. However, this rapid pace and scale of development are accompanied by a myriad of challenges. The increasing concentration of population and limited resources pose a vital challenge to urban governance. There is an immediate need to meet the increasing population’s demands through infrastructural capacity, ensuring provisions for economic opportunities, delivery of services such as affordable housing, clean water, sanitation, etc. Cities with limited resources, ineffective management practices, and unsustainable land-use patterns, further impact the economy and the social fabric. Around 90% of the urban expansion in developing countries is in hazard-prone areas built through informal and unplanned settlements. Furthermore, cities consume over two-thirds of global energy consumption, accounting for more than 70% of greenhouse gas emissions. The burgeoning threat of climate change puts cities at the forefront of this issue.

These factors reiterate the need to build cities that are rooted in sustainability and function effectively. The Government of India took cognisance of this need and launched several initiatives to help develop the urban economy, improve quality of life, and tackle emerging issues.

Several schemes were implemented at all urban local bodies to tackle significant challenges of poverty alleviation, affordable housing, and sanitation. These schemes include Deen Dayal Antyodaya Yojana-National Urban Livelihood Mission (DAY-NULM), Swachh Bharat Mission-Urban (SBM-U), Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Pradhan Mantri Awas Yojana-Urban (PMAY-U), Smart Cities Mission (SCM), Schemes/Projects for Urban Transport, and the Heritage City Development and Augmentation Yojana (HRIDAY).

Fundamental infrastructural issues such as water supply, sewage/septage management, stormwater drainage, non-motorised urban transport, and green parks are addressed through Atal Mission for Rejuvenation and Urban Transformation (AMRUT). Since these sectors require economies of scale, they are implemented in 500 cities with 1,00,000, and above population, covering 65% of the population. Furthermore, challenges related to ease of liveability are addressed under paradigms of urban governance, keeping communities at the core of all decisions, and perpetuating an increased use of digital technology to improve urban infrastructure, services, and optimum utilisation of resources. The Smart Cities Missions (SCM) is implemented to fulfil this purpose in 100 cities across India.

It has become increasingly crucial to build cities that not only function efficiently but offer sustainability and resilience to their people. Recognising the urgency of this need, several initiatives and programs have been undertaken to develop and transform urban spaces in India. In such a scenario, it is imperative to create an assessment tool that provides cities with an understanding of how they perform across different sectors of development. The data-driven learnings from such evaluations can be utilised as the starting point to initiate better governance outcomes, in compliance with the people’s needs.
The Ease of Living Index was developed in 2018 by the Ministry of Housing and Urban Affairs to help facilitate the evaluation of Indian cities. The Ease of Living 2020, presents itself as a second edition of the Ease of Living Index. It was developed after incorporating learnings from the previous study, expanding its scope to further strengthen its framework by incorporating the Municipal Performance Index. While the Ease of Living Index aims to assess the outcomes of local service delivery and the citizens’ perception of it, the Municipal Index focuses on assessing the performance of local bodies and their service efficiency.

The Ease of Living Index 2020 incorporated both social and economic elements, that holistically measures the quality of life across parameters of education, health, housing, water and sanitation, waste-management, mobility, safety and recreation. Gauging the economic ability of these cities in providing opportunities, the index also explores how India’s urban spaces accesses green spaces while developing resilience.

To further solidify the report’s findings, a “Citizen Perception Survey” was carried to gauge service delivery satisfaction among residents of a city. The survey aimed to assess whether the citizens’ view of their city corresponds with the service outcome.

Together, the Ease of Living Index (along with the Citizen Perception
Ease of Living Survey), and the Municipal Performance Index present a comprehensive view of Indian cities. They measure the ease of living in cities, local governance, administrative efficiency, and citizens’ perception based on the outcome of these factors.

The key objections of the Ease of Living Index are to:

1. Catalyse action to achieve broader developmental outcomes including the Sustainable Development Goals
2. Generate information to guide evidence-based policy-making
3. Assess and compare the outcomes achieved from various urban policies and schemes
4. Obtain the perception of citizens about their view on the services provided by the city administration, and serve as a basis for dialogue between them.

The following sections delve deeper into the framework that drives this report and the key findings that were the outcome of the data collected. It dissects critical learnings from the data acquired and describes how 111 Indian cities are faring across the three pillars and outlines steps that can be undertaken to achieve greater efficiency in urban governance.
The Ease of Living Index evaluates the well-being of Indian citizens in 111 cities, across various parameters that consist of four pillars: Quality of Life, Economic Ability, Sustainability, and Citizens Perception Survey. In totality, 49 indicators were examined under 14 categories.

The first pillar on "Quality of Life" uncovers an understanding of the different aspects contributing to a decent urban life. By examining provisions for necessities such as affordable housing, access to clean water, basic education, healthcare facilities, safety and security, and recreation avenue, the goal has been to assess a holistic impression of the quality of life in India's urban cities. It holds a weightage of 35% in the final index score.
Figure 1: Ease of Living Framework

35% Weightage
Quality of Life
- Education
- Health
- Housing and Shelter
- WASH and SWM
- Mobility
- Safety and Security
- Recreation

15% Weightage
Economic Ability
- Level of Economic Development
- Economic Opportunities

20% Weightage
Sustainability
- Environment
- Green Space and Buildings
- Energy Consumption
- City Resilience

30% Weightage
Citizen Perception Survey
- Citizen Perception Survey
The second pillar on “Economic Ability” captures the economic well-being of citizens by evaluating the level of economic development and inequalities that they encounter in a particular city. This pillar holds a weightage of 15% in the final index score.

The third pillar evaluates “Sustainability” along the lines of availability of green spaces, promotion of green buildings, level of energy consumption, the quality of natural resources such as air and water, and the city’s ability to withstand natural disasters. It holds a weightage of 20% in the final index score.

The index has been calculated through the data provided by cities on these pillars. It has also been validated through secondary sources to ensure a robust methodology and framework. The Citizen Perception Survey (CPS) was conducted to strengthen the index further. It provides a perception of the city residents and allows them to evaluate the level and quality of development in their respective cities. Furthermore, the survey acts as a source to validate the findings of the index and examine whether they comply with the results of the data provided by the cities. The CPS pillar holds a weightage of 30% in the overall index score.

It is important to note that all categories are considered equally important in the index and have been given equal weightage. However, since the number of indicators under each pillar varies, the pillars have been allocated different weights.

Methodology

Given the distinct levels of development of cities across India and their varying population size, cities were classified into different tiers to help bring forth better analysis (Table 1). A thorough investigation was conducted, consisting of all cities with a population of greater than 1 million as per the as per the projected population till 2019 (all metropolitan and megapolis cities), and all cities covered under the Smart Cities Mission, (regardless of their population size). Conclusively, a total of 111 cities were selected for evaluation in the Ease of Living Index. These cities have been primarily bifurcated into two categories: 1) “Million+” populated cities (with a population of more than a million); and 2) “Less than Million” (with a population of less than a million). For the purposes of this report, cities have been referred to as “Million+ cities” and "Less than Million cities", instead of "Million+ populated cities" and "Less than Million populated cities" for greater clarity.
Table 1: Classification of Cities

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>POPULATION RANGE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than Million</td>
<td>Population &lt; 1 million</td>
</tr>
<tr>
<td>Million+</td>
<td>Population &gt; 1 million</td>
</tr>
</tbody>
</table>

*As per Population Projections for India and States 2011-2036, November 2019

Data was collected from cities and publicly available government sources. The latter aids in invalidating the data provided by city administrative authorities. In case data from public sources was not available for specific data points citygeographies were mapped at the district and state level.

Scoring Methods:

The data collected for the 49 indicators across the Index had been obtained in various units. For instance, professionally trained teachers in schools is a percentage of the total teachers, while footpath density is a ratio of the total length of the footpath to the total length of road. Each of these indicators has had a different scoring mechanism.

Percentage:

Since cities vary in population sizes and economic strength, most indicators need to be weighed for comparability. For instance, the total number of households connected to sewerage network needs to be weighed against the total number of households in the city. These indicators, therefore, take the form of percentages. These do not require any scoring mechanisms but were standardised, as explained below.

Ratio

Similarly, to weigh the data for comparability, some indicators were obtained in the form of ratios. For instance, transport-related fatalities were weighed by per lakh of population. Again, these did not require scoring mechanisms but were standardised.

Binary Marking

Some indicators take the form of yes or no questions to the cities. For instance, the indicator assessing if the city Incentivises green buildings takes the form of a question. The response to this is binary, with the “yes” answer marked as 1 and the “no” answer marked as 0.
Ease of Living

The indicator set includes some indicators that are positively correlated with the aspects that are supposed to be examined through the index. In contrast, some other indicators are negatively correlated with the overall index. For example, public transportation availability is positively related to citizens’ ease of living while the prevalence of crimes reflects the challenges faced by the citizens. Therefore, indicators were modified to ensure that greater value means a higher score. An exhaustive list of indicators is provided in the Appendix to the report.

Normalisation

Normalisation is required to make the indicators comparable with each other. It is critical to normalise the data before making any data aggregation as indicators have different units. For example, the sewerage network coverage is captured as a percentage of the total road length while the pupil-teacher ratio is a proportion. These indicators are not comparable by any standards. The normalisation procedure is carried out to transform all the data into dimensionless numbers. This is done using z-scores that can be placed in a normal distribution. The z-score or the standard score indicates how many standard deviations an indicator value is from the mean. It ranges from -3 standard deviation to +3 standard deviation.

Standardisation

Standardisation helps solve non-comparability by making indicators unitless as it re-scales them with a mean of zero and a standard deviation of one.

Data Transformation

The indicator set includes some indicators that are positively correlated with the aspects that are supposed to be examined through the index. In contrast, some other indicators are negatively correlated with the overall index. For example, public transportation availability is positively related to citizens’ ease of living while the prevalence of crimes reflects the challenges faced by the citizens. Therefore, indicators were modified to ensure that greater value means a higher score. An exhaustive list of indicators is provided in the Appendix to the report.

Deviation from Mean

Some indicators have no fixed benchmarking or optimal value. For instance, it is difficult to fix the optimal expenditure on health and education by a house. In such cases, the average of all cities was taken as a benchmark, and each city was scored based on the deviation from it. For instance, in household expenditure on education as a percentage of total household expenditure, the mean expenditure proportion for all cities was obtained. The deviation of each city from it was used to assess its scores. Any positive deviation was considered better in such cases.

In some cases, like pupil-teacher ratio at the primary level, where there is a benchmark given by The Right of Children to Free and Compulsory Education (RTE) Act at 30:1, there was a capping benchmark. Cities with a higher pupil-teacher ratio like 25:1 were awarded the same score as the one with 30:1. However, those with a lower pupil-teacher ratio than 30:1 were penalised depending on the deviation from the benchmark.

If Service Level Benchmarks or national norms were not available, the city performance within its group was treated as the benchmark. These city groups are provided in the city classification section.

Standardisation helps solve non-comparability by making indicators unitless as it re-scales them with a mean of zero and a standard deviation of one.

It is calculated using the following formula:

\[ Z = \frac{(X - \mu)}{\sigma} \]

Where \( Z \) represents z-score; \( \mu \) is the mean; \( X \) is the indicator value, and \( \sigma \) is the standard deviation.
Aggregation

The aggregation methodology of the Ease of Living Index is based on three elements, i.e. indicators, categories and pillars of the index, and the Citizen Perception Survey. The index has 70 percent weightage in the overall Ease of Living Scores, and the Citizen Perception Survey has 30 percent weightage. The category values have been represented by A to M, and pillar values have been represented by O, P and Q (as depicted by the table in the next section on Category Scores).

Category Scores

Each indicator under the category has been given equal weightage. The weights for pillars have been decided based on consultation with experts and proportionality of the said indicators across pillars. The category values are calculated by summing the weighted scores using the following formula:

\[ \text{Category} = \sum (w_i \times \text{indicator}) \]

For instance, the category Housing and Shelter has four indicators, so the weight of every indicator for calculating the score for category Health will be 20 percent or 0.2. This implies that:

Scores of Housing and Shelter = 
(0.2* Value of households with electrical connections + 0.2* Value of average length of electrical interruptions + 0.2* Value of beneficiaries Under PMAY+ 0.2* Value of Slum Population)

These scores have been transformed to a 0 to 100 scale. The calculation has been done using the following formula:

\[ \frac{(X- \text{Minimum Scores})}{(\text{Maximum Score-Minimum Score})} \]

Where X is the city score.

The category values are represented in the form of A to M in the table below.

Pillar Scores:
The scores of the categories under each pillar will be aggregated to arrive at the pillar score. This will be calculated using the following formula:

\[ \text{Pillar} = \sum (w_i \times \text{Category Scores}) \]

The table below presents the weights and the complete methodology for each pillar.

<table>
<thead>
<tr>
<th>Pillar</th>
<th>Category</th>
<th>Score of Pillar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality of Life (35%)</td>
<td>Education (A)</td>
<td>O= (A+B+C+D+E+F+G)</td>
</tr>
<tr>
<td></td>
<td>Health (B)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Housing and Shelter (C)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WASH and SWM (D)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mobility (E)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Safety and Security (F)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Recreation (G)</td>
<td></td>
</tr>
<tr>
<td>Economic Ability (15%)</td>
<td>Level of Economic Development (H)</td>
<td>P= (H+I)</td>
</tr>
<tr>
<td></td>
<td>Economic Opportunities (I)</td>
<td></td>
</tr>
<tr>
<td>Sustainability (20%)</td>
<td>Environment (J)</td>
<td>Q= (J+K+L+M)</td>
</tr>
<tr>
<td></td>
<td>Green Spaces and Buildings (K)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Energy Consumption (L)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>City Resilience (M)</td>
<td></td>
</tr>
<tr>
<td>Ease of Living Index</td>
<td>Total Score</td>
<td>0.35<em>O+0.15</em>P+0.2*Q</td>
</tr>
</tbody>
</table>

The framework for the Ease of Living Index thus includes the pillar scores and the scores generated from the citizens’ survey. The pillar levels scores account for 70% of the Index, whereas the Citizen Perception Survey accounts for 30% of the final Index scores. The following section discusses the findings of the index in expansive detail.
The aggregate score of the 111 cities participating in this index comes down to 53.51. The ranking of the cities demonstrates the variation in scores, and gives further insight into the development scenario in the cities of India.
### Table 2: Million+ category rankings in Ease of Living Index

<table>
<thead>
<tr>
<th>Rank</th>
<th>Million + City</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bengaluru</td>
<td>66.70</td>
</tr>
<tr>
<td>2</td>
<td>Pune</td>
<td>66.27</td>
</tr>
<tr>
<td>3</td>
<td>Ahmedabad</td>
<td>64.87</td>
</tr>
<tr>
<td>4</td>
<td>Chennai</td>
<td>62.61</td>
</tr>
<tr>
<td>5</td>
<td>Surat</td>
<td>61.73</td>
</tr>
<tr>
<td>6</td>
<td>Navi Mumbai</td>
<td>61.60</td>
</tr>
<tr>
<td>7</td>
<td>Coimbatore</td>
<td>59.72</td>
</tr>
<tr>
<td>8</td>
<td>Vadodara</td>
<td>59.24</td>
</tr>
<tr>
<td>9</td>
<td>Indore</td>
<td>58.58</td>
</tr>
<tr>
<td>10</td>
<td>Greater Mumbai</td>
<td>58.23</td>
</tr>
<tr>
<td>11</td>
<td>Thane</td>
<td>58.16</td>
</tr>
<tr>
<td>12</td>
<td>Kalyan Dombivali</td>
<td>57.71</td>
</tr>
<tr>
<td>13</td>
<td>Delhi</td>
<td>57.56</td>
</tr>
<tr>
<td>14</td>
<td>Ludhiana</td>
<td>57.36</td>
</tr>
<tr>
<td>15</td>
<td>Visakhapatnam</td>
<td>57.28</td>
</tr>
<tr>
<td>16</td>
<td>Pimpri Chinchwad</td>
<td>57.16</td>
</tr>
<tr>
<td>17</td>
<td>Solapur</td>
<td>56.58</td>
</tr>
<tr>
<td>18</td>
<td>Raipur</td>
<td>56.26</td>
</tr>
<tr>
<td>19</td>
<td>Bhopal</td>
<td>56.26</td>
</tr>
<tr>
<td>20</td>
<td>Rajkot</td>
<td>55.94</td>
</tr>
<tr>
<td>21</td>
<td>Jodhpur</td>
<td>55.80</td>
</tr>
<tr>
<td>22</td>
<td>Madurai</td>
<td>55.78</td>
</tr>
<tr>
<td>23</td>
<td>Jaipur</td>
<td>55.70</td>
</tr>
<tr>
<td>24</td>
<td>Hyderabad</td>
<td>55.40</td>
</tr>
<tr>
<td>25</td>
<td>Nagpur</td>
<td>55.33</td>
</tr>
<tr>
<td>26</td>
<td>Lucknow</td>
<td>55.15</td>
</tr>
<tr>
<td>27</td>
<td>Varanasi</td>
<td>54.67</td>
</tr>
<tr>
<td>28</td>
<td>Kanpur</td>
<td>54.43</td>
</tr>
<tr>
<td>29</td>
<td>Chandigarh</td>
<td>54.26</td>
</tr>
<tr>
<td>30</td>
<td>Ghaziabad</td>
<td>54.31</td>
</tr>
<tr>
<td>31</td>
<td>Gwalior</td>
<td>53.72</td>
</tr>
<tr>
<td>32</td>
<td>Prayagraj</td>
<td>53.29</td>
</tr>
<tr>
<td>33</td>
<td>Patna</td>
<td>53.26</td>
</tr>
<tr>
<td>34</td>
<td>Aurangabad</td>
<td>52.90</td>
</tr>
<tr>
<td>35</td>
<td>Agra</td>
<td>52.58</td>
</tr>
<tr>
<td>36</td>
<td>Meerut</td>
<td>52.41</td>
</tr>
<tr>
<td>37</td>
<td>Hubli Dharwad</td>
<td>51.39</td>
</tr>
<tr>
<td>38</td>
<td>Nashik</td>
<td>51.29</td>
</tr>
<tr>
<td>39</td>
<td>Vasai Virar</td>
<td>51.26</td>
</tr>
<tr>
<td>40</td>
<td>Faridabad</td>
<td>51.26</td>
</tr>
<tr>
<td>41</td>
<td>Vijayawada</td>
<td>50.35</td>
</tr>
<tr>
<td>42</td>
<td>Ranchi</td>
<td>50.31</td>
</tr>
<tr>
<td>43</td>
<td>Jabalpur</td>
<td>49.94</td>
</tr>
<tr>
<td>44</td>
<td>Kota</td>
<td>49.52</td>
</tr>
<tr>
<td>45</td>
<td>Amritsar</td>
<td>49.36</td>
</tr>
<tr>
<td>46</td>
<td>Guwahati</td>
<td>48.52</td>
</tr>
<tr>
<td>47</td>
<td>Bareilly</td>
<td>47.73</td>
</tr>
<tr>
<td>48</td>
<td>Dhanbad</td>
<td>46.96</td>
</tr>
<tr>
<td>49</td>
<td>Srinagar</td>
<td>42.95</td>
</tr>
</tbody>
</table>
### Table 3: Less than Million category rankings in Ease of Living Index

<table>
<thead>
<tr>
<th>Rank</th>
<th>Less than Million City</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shimla</td>
<td>60.90</td>
</tr>
<tr>
<td>2</td>
<td>Bhubaneswar</td>
<td>59.85</td>
</tr>
<tr>
<td>3</td>
<td>Silvassa</td>
<td>58.43</td>
</tr>
<tr>
<td>4</td>
<td>Kakinada</td>
<td>56.84</td>
</tr>
<tr>
<td>5</td>
<td>Salem</td>
<td>56.40</td>
</tr>
<tr>
<td>6</td>
<td>Vellore</td>
<td>56.38</td>
</tr>
<tr>
<td>7</td>
<td>Gandhinagar</td>
<td>56.25</td>
</tr>
<tr>
<td>8</td>
<td>Gurugram</td>
<td>56.00</td>
</tr>
<tr>
<td>9</td>
<td>Davanagere</td>
<td>55.25</td>
</tr>
<tr>
<td>10</td>
<td>Tiruchirappalli</td>
<td>55.24</td>
</tr>
<tr>
<td>11</td>
<td>Agartala</td>
<td>55.20</td>
</tr>
<tr>
<td>12</td>
<td>Ajmer</td>
<td>54.89</td>
</tr>
<tr>
<td>13</td>
<td>Puducherry</td>
<td>54.78</td>
</tr>
<tr>
<td>14</td>
<td>Diu</td>
<td>54.64</td>
</tr>
<tr>
<td>15</td>
<td>Karnal</td>
<td>54.48</td>
</tr>
<tr>
<td>16</td>
<td>Panaji</td>
<td>54.44</td>
</tr>
<tr>
<td>17</td>
<td>Tirunelveli</td>
<td>54.04</td>
</tr>
<tr>
<td>18</td>
<td>Tiruppur</td>
<td>54.03</td>
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<tr>
<td>19</td>
<td>Warangal</td>
<td>54.01</td>
</tr>
<tr>
<td>20</td>
<td>Mangalore</td>
<td>53.95</td>
</tr>
<tr>
<td>21</td>
<td>Thiruvananthapuram</td>
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</tr>
<tr>
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<td>Karimnagar</td>
<td>53.27</td>
</tr>
<tr>
<td>23</td>
<td>Tumakuru</td>
<td>53.06</td>
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<td>Erode</td>
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<td>Sagar</td>
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<tr>
<td>26</td>
<td>Shivamogga</td>
<td>52.86</td>
</tr>
<tr>
<td>27</td>
<td>Jammu</td>
<td>52.49</td>
</tr>
<tr>
<td>28</td>
<td>Bihar Sharif</td>
<td>52.42</td>
</tr>
<tr>
<td>29</td>
<td>Dehradun</td>
<td>52.41</td>
</tr>
<tr>
<td>30</td>
<td>Bhagalpur</td>
<td>52.19</td>
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<td>Thanjavur</td>
<td>52.18</td>
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<td>Jalandhar</td>
<td>52.18</td>
</tr>
<tr>
<td>33</td>
<td>Ujjain</td>
<td>52.04</td>
</tr>
<tr>
<td>34</td>
<td>Jhansi</td>
<td>51.71</td>
</tr>
<tr>
<td>35</td>
<td>Shillong</td>
<td>51.65</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank</th>
<th>Less than Million City</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Kavaratti</td>
<td>51.58</td>
</tr>
<tr>
<td>37</td>
<td>Dharamshala</td>
<td>51.51</td>
</tr>
<tr>
<td>38</td>
<td>Moradabad</td>
<td>51.43</td>
</tr>
<tr>
<td>39</td>
<td>Kochi</td>
<td>51.41</td>
</tr>
<tr>
<td>40</td>
<td>Rae Bareli</td>
<td>51.21</td>
</tr>
<tr>
<td>41</td>
<td>Gangtok</td>
<td>51.18</td>
</tr>
<tr>
<td>42</td>
<td>Port Blair</td>
<td>51.13</td>
</tr>
<tr>
<td>43</td>
<td>Thoothukudi</td>
<td>51.12</td>
</tr>
<tr>
<td>44</td>
<td>Saharanpur</td>
<td>50.91</td>
</tr>
<tr>
<td>45</td>
<td>Amravati</td>
<td>50.38</td>
</tr>
<tr>
<td>46</td>
<td>Tirupati</td>
<td>50.33</td>
</tr>
<tr>
<td>47</td>
<td>Belagavi</td>
<td>50.28</td>
</tr>
<tr>
<td>48</td>
<td>Udaipur</td>
<td>50.25</td>
</tr>
<tr>
<td>49</td>
<td>Kohima</td>
<td>49.87</td>
</tr>
<tr>
<td>50</td>
<td>Imphal</td>
<td>49.64</td>
</tr>
<tr>
<td>51</td>
<td>Dahod</td>
<td>49.40</td>
</tr>
<tr>
<td>52</td>
<td>Bilaspur</td>
<td>49.19</td>
</tr>
<tr>
<td>53</td>
<td>Itanagar</td>
<td>48.96</td>
</tr>
<tr>
<td>54</td>
<td>Rourkela</td>
<td>48.89</td>
</tr>
<tr>
<td>55</td>
<td>Pasighat</td>
<td>48.78</td>
</tr>
<tr>
<td>56</td>
<td>Dindigul</td>
<td>48.34</td>
</tr>
<tr>
<td>57</td>
<td>Aizawl</td>
<td>48.16</td>
</tr>
<tr>
<td>58</td>
<td>Aligarh</td>
<td>47.15</td>
</tr>
<tr>
<td>59</td>
<td>Rampur</td>
<td>46.88</td>
</tr>
<tr>
<td>60</td>
<td>Namchi</td>
<td>46.46</td>
</tr>
<tr>
<td>61</td>
<td>Satna</td>
<td>45.60</td>
</tr>
<tr>
<td>62</td>
<td>Muzaffarpur</td>
<td>45.53</td>
</tr>
</tbody>
</table>
Ease of Living

Bengaluru has emerged as the top performer with a score of 66.70, followed by Pune (66.27) in the 2nd position and Ahmedabad (64.87) in the 3rd position. India is a diverse country, with varied levels of development and population sizes. Hence, it is critical to take such differences into account while comparing scores. For this purpose, the cities have been bifurcated on the basis of population sizes - cities having over a million population (or Million+ cities) and cities having less than a million population (or Less than Million cities).

Data shows that Bengaluru has topped in the first category, and Shimla in the second. Since large metropolitans are included in the Million+ cities, it is understandable that scores for that category are comparatively higher.

The bifurcated scores also give a spotlight to cities that are excelling in various areas of development but are overlooked because they are smaller cities or are part of the urban agglomerations that grow around urban centres. These urban areas are essential to the development journey of India, because they are the bridge between urban and rural economies, which help stimulate rural development by providing market linkages for agricultural produce, access to financial services and social infrastructure like education and healthcare, employment opportunities, and the like. The separate ranking of cities with Less than Million population allows the creation of a separate league, wherein the respective city administrations and planners are encouraged and incentivised to gauge their performance with similar urban agglomerations.
A country-level analysis provides a macroscopic understanding of the Ease of Living across Indian cities. The analysis presents the strengths and weaknesses of enabling Ease of living in India’s urban centers, which could assist in adopting sound practices and policies to improve the same.
Indian cities have achieved an average score of 53.51 in the Ease of Living Index that ranges from a scale of 0 (worst-case scenario) to 100 (best-case scenario). Scope of improvement is thus imminently evident in improving the ease of living in Indian cities. However, it becomes important to analyse the pillar and category scores that can identify the strengths and weaknesses of these cities.

Some factors such as access to education (70.7), Housing & Shelter (79.5), and Safety and Security (86.7) have visibly alleviated the national average...
As the urban population grows in the country, the centers of economic activities have been limited to industrial hubs that have traditionally developed as pivots of finance and services. The urban growth thus lags significantly.

The low national average scores on Economic Ability at 13.17 imply the potential that India’s urban centers possess in developing into hubs of economic growth and prosperity, that can provide robust livelihood opportunities and create a thriving cosmopolitan culture in these areas. As the urban population grows in the country, the centers of economic activities have been limited to industrial hubs that have traditionally developed as pivots of finance and services. The urban growth thus lags significantly.

Sustainability observes a high national average at 53.63, as average scores on categories such as City-Resilience (91.59) and Energy Consumption (65.05) have skewed the average to a positive end. National and state-level policies promoting the usage of renewable energy such as solar power has contributed to the high scores in Energy Consumption. Increased urban resilience to natural disasters by involving individuals, communities, and institutions at the city-level by local administrations has further improved the scores of the sustainability pillar.
B. Region-level Analysis

India is a diverse country in terms of geographical distribution, varying levels of development, and population, and the Ease of Living scores reflect that. It is thus important to take into account these differences while comparing scores. For this analysis, cities have been firstly categorised based on their population sizes—cities having over a million population (Million+) and cities having less than a million population (Less than Million). Furthermore, the states and union territories have been categorised under six regions, namely:

**North:** Chandigarh, Haryana, Jammu & Kashmir, NCT Delhi, Punjab, Rajasthan, Uttar Pradesh

**South:** Andhra Pradesh, Karnataka, Kerala, Lakshadweep, Puducherry, Tamil Nadu, Telangana

**West:** Dadra and Nagar Haveli, Daman and Diu, Goa, Gujarat, Maharashtra

**Central:** Chhattisgarh, Madhya Pradesh

**East:** Andaman & Nicobar Islands, Bihar, Jharkhand, Odisha, Sikkim

**North-East:** Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Tripura.

The western region observes the highest aggregate of Ease of Living scores at 56.75, followed by South (54.38), North (52.59), Central (52.72), East (50.75), and finally North-East (50.10) regions.
Figure 3: Regional Distribution of Ease of Living scores

North 52.59
West 56.75
North-East 50.10
East 50.75
Central 52.72
South 54.38
North

With a regional average score of 52.59, most of the 17 Million+ cities in the northern region have an Ease of Living score higher than the national average of 53.51. Some of the top-ranking cities in the Million+ categories have emerged from the northern region such as Delhi (13th), Ludhiana (14th), Jodhpur (21st), and Jaipur (23rd). Most of these cities have attained moderate scores in Quality of Life and Sustainability, but have fallen short in their Economic Ability scores. All Million+ cities in the northern region have secured ranks less than 50, and have thus performed better than more than 50% of the cities participating in this index, as observed in Table 4.

Table 4: Scores of Million+ cities in Northern Region

<table>
<thead>
<tr>
<th>State</th>
<th>Million+ City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
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<td>Chandigarh</td>
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<td>53.17</td>
<td>28.70</td>
<td>75.20</td>
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<td>75.90</td>
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</table>

On the other hand, some Less than Million cities in the northern region (as shown in Table 5) have performed exceptionally well, with top-ranking cities in this category such as Shimla (1st), Gurugram (8th), and Ajmer (12th) emerging from this region. However, three cities from Uttar Pradesh such as Aligarh (58th) and Rampur (59th).
The southern region observes a higher proportion of Less than Million cities with 22 cities participating in this index. With only 8 Million+ cities emerging from the south, their high ranking in this particular category has elevated the regional average of 54.38. Cities such as Bengaluru (1st), Chennai (4th), Coimbatore (7th), Visakhapatnam (15th), and Hyderabad (24th) have performed well in terms of Economic Ability, with scores above 30 (as shown in Table 6).

### Table 5: Scores of Less than Million cities in Northern Region

<table>
<thead>
<tr>
<th>State</th>
<th>Less than Million City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
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<td>32.82</td>
<td>72.20</td>
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<td>68.80</td>
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</table>

### Table 6: Scores of Million+ cities in Southern Region

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<tr>
<th>State</th>
<th>Million+ City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
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<td>34.12</td>
<td>77.20</td>
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<td>Bengaluru</td>
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<td>78.82</td>
<td>59.97</td>
<td>43.30</td>
<td>78.00</td>
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<td>56.61</td>
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<td>59.96</td>
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<td>Hyderabad</td>
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<td>30.05</td>
<td>58.69</td>
<td>34.19</td>
<td>70.70</td>
<td>55.40</td>
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</table>
States such as Karnataka, Kerala and Tamil Nadu have a high proportion of Less than Million cities, (as shown in Table 7) with top-ranking cities such as Kakinada (4th), Salem (5th), Vellore(6th), Davanagere(9th), Tiruchirappalli (10th).

### Table 7: Scores of Less than Million cities in Southern Region

<table>
<thead>
<tr>
<th>State</th>
<th>Less than Million City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
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</table>
West

The western region has the highest regional average score at 56.75. Of the 15 Million+ cities emerging from this region (as shown in Table 8), their exceptional performance in Economic ability has influenced their national rankings and performance, as most cities have secured the top 20 ranks. Cities such as Pune (2nd), Ahmedabad (3rd), Surat (5th), Navi Mumbai (6th), Vadodara (8th), Greater Mumbai (10th), Thane (11th), Kalyan Dombivali (12th) have not only performed well in Economic Ability, but also in Quality of Life and Sustainability pillars.

Table 8: Scores of Million+ cities in Western Region

<table>
<thead>
<tr>
<th>State</th>
<th>Million+ City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
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<td></td>
<td>Navi Mumbai</td>
<td>59.93</td>
<td>23.53</td>
<td>61.85</td>
<td>36.88</td>
<td>82.40</td>
<td>61.60</td>
</tr>
<tr>
<td></td>
<td>Pimpri Chinchwad</td>
<td>54.79</td>
<td>30.07</td>
<td>65.09</td>
<td>36.70</td>
<td>68.20</td>
<td>57.16</td>
</tr>
<tr>
<td></td>
<td>Pune</td>
<td>58.10</td>
<td>48.88</td>
<td>75.74</td>
<td>42.81</td>
<td>78.20</td>
<td>66.27</td>
</tr>
<tr>
<td></td>
<td>Solapur</td>
<td>51.79</td>
<td>4.02</td>
<td>56.04</td>
<td>29.94</td>
<td>88.80</td>
<td>56.58</td>
</tr>
<tr>
<td></td>
<td>Thane</td>
<td>55.04</td>
<td>40.52</td>
<td>54.90</td>
<td>36.32</td>
<td>72.80</td>
<td>58.16</td>
</tr>
<tr>
<td></td>
<td>Vasai Virar</td>
<td>51.84</td>
<td>10.89</td>
<td>48.53</td>
<td>29.48</td>
<td>72.60</td>
<td>51.26</td>
</tr>
</tbody>
</table>

A similar performance of Less than Million cities can be observed in Table 9, with cities in the western region with cities such as Silvassa (3rd), Gandhinagar (7th), Diu (14th), and Panaji (16th) performing well in Quality of Life and Citizen Perception Survey pillars.
Table 9: Scores of Less than Million cities in Western Region

<table>
<thead>
<tr>
<th>State</th>
<th>Less than Million City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dadra and Nagar Haveli</td>
<td>Silvassa</td>
<td>55.06</td>
<td>12.54</td>
<td>46.16</td>
<td>30.38</td>
<td>93.50</td>
<td>58.43</td>
</tr>
<tr>
<td>Daman and Diu</td>
<td>Diu</td>
<td>55.73</td>
<td>11.30</td>
<td>55.74</td>
<td>32.35</td>
<td>74.30</td>
<td>54.64</td>
</tr>
<tr>
<td>Goa</td>
<td>Panaji</td>
<td>62.42</td>
<td>8.90</td>
<td>48.15</td>
<td>32.81</td>
<td>72.10</td>
<td>54.44</td>
</tr>
<tr>
<td>Gujarat</td>
<td>Dahod</td>
<td>53.55</td>
<td>3.33</td>
<td>39.34</td>
<td>27.11</td>
<td>74.30</td>
<td>49.40</td>
</tr>
<tr>
<td></td>
<td>Gandhinagar</td>
<td>55.02</td>
<td>15.12</td>
<td>51.99</td>
<td>31.92</td>
<td>81.10</td>
<td>56.25</td>
</tr>
<tr>
<td>Maharashtra</td>
<td>Amravati</td>
<td>53.31</td>
<td>3.39</td>
<td>55.12</td>
<td>30.19</td>
<td>67.30</td>
<td>50.38</td>
</tr>
</tbody>
</table>

Central
The central region observes a blend of high-ranking and low-ranking cities, with the former concentrated in the Million+ category and the latter in the Less than Million category. While Million+ cities such as Indore, Raipur and Bhopal have ranked 9th, 18th and 19th respectively (as shown in table 10), Less than Million city such as Satna (Table 11) has secured the second-last position out of the 62 cities in the Less than Million category.

Table 10: Scores of Million+ cities in Central Region

<table>
<thead>
<tr>
<th>State</th>
<th>Million+ City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chhattisgarh</td>
<td>Raipur</td>
<td>54.74</td>
<td>11.73</td>
<td>63.77</td>
<td>33.67</td>
<td>75.30</td>
<td>56.26</td>
</tr>
<tr>
<td>Madhya Pradesh</td>
<td>Bhopal</td>
<td>57.92</td>
<td>14.01</td>
<td>51.68</td>
<td>32.71</td>
<td>78.50</td>
<td>56.26</td>
</tr>
<tr>
<td></td>
<td>Gwalior</td>
<td>51.43</td>
<td>5.97</td>
<td>64.17</td>
<td>31.73</td>
<td>73.30</td>
<td>53.72</td>
</tr>
<tr>
<td></td>
<td>Indore</td>
<td>59.86</td>
<td>15.09</td>
<td>61.62</td>
<td>35.54</td>
<td>76.80</td>
<td>58.58</td>
</tr>
<tr>
<td></td>
<td>Jabalpur</td>
<td>50.75</td>
<td>4.41</td>
<td>53.31</td>
<td>29.09</td>
<td>69.50</td>
<td>49.94</td>
</tr>
</tbody>
</table>

Table 11: Scores of Less than Million cities in Central Region

<table>
<thead>
<tr>
<th>State</th>
<th>Less than Million City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chhattisgarh</td>
<td>Bilaspur</td>
<td>37.24</td>
<td>7.16</td>
<td>47.46</td>
<td>23.60</td>
<td>85.30</td>
<td>49.19</td>
</tr>
<tr>
<td>Madhya Pradesh</td>
<td>Sagar</td>
<td>46.96</td>
<td>13.21</td>
<td>49.38</td>
<td>28.29</td>
<td>81.90</td>
<td>52.86</td>
</tr>
<tr>
<td></td>
<td>Satna</td>
<td>41.28</td>
<td>5.81</td>
<td>45.21</td>
<td>24.36</td>
<td>70.80</td>
<td>45.60</td>
</tr>
<tr>
<td></td>
<td>Ujjain</td>
<td>50.91</td>
<td>5.27</td>
<td>57.66</td>
<td>30.14</td>
<td>73.00</td>
<td>52.04</td>
</tr>
</tbody>
</table>
East & North-East

The eastern region depicts a contrasting performance, as most of the Million+ and Less than Million cities have ranked above 30. A higher proportion of low-ranking cities can be observed in this region, with Ranchi ranking 42nd, Dhanbad ranking 48th among 49 cities in the Million+ category (as shown in Table 12). In the Less than Million category (in Table 13), Rourkela ranked 54th, Namchi ranked 60th and Muzaffarpur ranked last at 62nd, out of 62 Less than Million cities.

Table 12: Scores of Million+ cities in Eastern Region

<table>
<thead>
<tr>
<th>State</th>
<th>Million+ City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bihar</td>
<td>Patna</td>
<td>47.02</td>
<td>24.61</td>
<td>49.32</td>
<td>30.01</td>
<td>77.50</td>
<td>53.26</td>
</tr>
<tr>
<td>Jharkhand</td>
<td>Ranchi</td>
<td>51.86</td>
<td>6.88</td>
<td>49.59</td>
<td>29.10</td>
<td>70.70</td>
<td>50.31</td>
</tr>
<tr>
<td></td>
<td>Dhanbad</td>
<td>34.71</td>
<td>6.42</td>
<td>50.90</td>
<td>23.29</td>
<td>78.90</td>
<td>46.96</td>
</tr>
</tbody>
</table>
A similar observation can be drawn in the case of north-eastern cities. While Agartala has ranked high in Less than Million category, other cities in the region have secured bottom ranks in both Million+ (Table 14) and Less than Million (Table 15) categories. Their poor performance in economic ability has skewed the results negatively, despite a moderate performance in terms of Quality of Life and Sustainability.

### Table 13: Scores of Less than Million cities in the Eastern region

<table>
<thead>
<tr>
<th>State</th>
<th>Less than Million City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andaman</td>
<td>Port Blair</td>
<td>55.14</td>
<td>5.09</td>
<td>47.77</td>
<td>29.62</td>
<td>71.70</td>
<td>51.13</td>
</tr>
<tr>
<td>Bihar</td>
<td>Bhagalpur</td>
<td>49.02</td>
<td>0.67</td>
<td>48.22</td>
<td>26.90</td>
<td>84.30</td>
<td>52.19</td>
</tr>
<tr>
<td></td>
<td>Bihar Sharif</td>
<td>48.71</td>
<td>0.58</td>
<td>59.14</td>
<td>28.96</td>
<td>78.20</td>
<td>52.42</td>
</tr>
<tr>
<td></td>
<td>Muzaffarpur</td>
<td>45.87</td>
<td>1.85</td>
<td>44.31</td>
<td>25.19</td>
<td>67.80</td>
<td>45.53</td>
</tr>
<tr>
<td>Odisha</td>
<td>Bhubaneswar</td>
<td>51.79</td>
<td>11.57</td>
<td>57.77</td>
<td>31.41</td>
<td>94.80</td>
<td>59.85</td>
</tr>
<tr>
<td></td>
<td>Rourkela</td>
<td>42.90</td>
<td>8.09</td>
<td>49.76</td>
<td>26.18</td>
<td>75.70</td>
<td>48.89</td>
</tr>
<tr>
<td>Sikkim</td>
<td>Gangtok</td>
<td>52.14</td>
<td>16.36</td>
<td>40.50</td>
<td>28.80</td>
<td>74.60</td>
<td>51.18</td>
</tr>
<tr>
<td></td>
<td>Namchi</td>
<td>42.03</td>
<td>15.69</td>
<td>46.80</td>
<td>26.42</td>
<td>66.80</td>
<td>46.46</td>
</tr>
</tbody>
</table>

### Table 14: Scores of Million+ cities in North-Eastern region

<table>
<thead>
<tr>
<th>State</th>
<th>Million+ City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assam</td>
<td>Guwahati</td>
<td>43.65</td>
<td>8.63</td>
<td>48.31</td>
<td>26.23</td>
<td>74.30</td>
<td>48.52</td>
</tr>
</tbody>
</table>

### Table 15: Scores of Less than-Million cities in the North-Eastern region

<table>
<thead>
<tr>
<th>State</th>
<th>Less than Million City</th>
<th>Quality of Life</th>
<th>Economic Ability</th>
<th>Sustainability</th>
<th>Ease of Living (w/o CPS)</th>
<th>Citizen Perception Survey (CPS)</th>
<th>Ease of Living</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arunachal Pradesh</td>
<td>Itanagar</td>
<td>51.19</td>
<td>1.39</td>
<td>40.95</td>
<td>26.31</td>
<td>75.50</td>
<td>48.96</td>
</tr>
<tr>
<td></td>
<td>Pasighat</td>
<td>51.71</td>
<td>4.14</td>
<td>40.51</td>
<td>26.82</td>
<td>73.20</td>
<td>48.78</td>
</tr>
<tr>
<td>Manipur</td>
<td>Imphal</td>
<td>45.01</td>
<td>1.14</td>
<td>38.38</td>
<td>23.60</td>
<td>86.80</td>
<td>49.64</td>
</tr>
<tr>
<td>Meghalaya</td>
<td>Shillong</td>
<td>43.54</td>
<td>4.74</td>
<td>56.53</td>
<td>27.26</td>
<td>81.30</td>
<td>51.65</td>
</tr>
<tr>
<td>Mizoram</td>
<td>Aizawl</td>
<td>41.03</td>
<td>8.41</td>
<td>44.51</td>
<td>24.52</td>
<td>78.80</td>
<td>48.16</td>
</tr>
<tr>
<td>Nagaland</td>
<td>Kohima</td>
<td>50.06</td>
<td>0.55</td>
<td>46.87</td>
<td>26.98</td>
<td>76.30</td>
<td>49.87</td>
</tr>
<tr>
<td>Tripura</td>
<td>Agartala</td>
<td>47.87</td>
<td>3.17</td>
<td>60.25</td>
<td>29.28</td>
<td>86.40</td>
<td>55.20</td>
</tr>
</tbody>
</table>
C. Pillar-level Analysis

01. Quality of Life

The Quality of Life pillar evaluates cities on the varied components of what is essentially a comfortable life in an urban space. While education and health are two important categories that focus on human capital formation and development and are beneficiaries of targeted policy-making, the other components that define an urban life, such as mobility, recreation, and safety, are not often so. Much of a citizen’s perception of their quality of life is a symbiosis of all of these categories in varied combinations and plays a significant role in accessing both education and health.
The Quality of Life pillar is marked by several categories. The national average is 51.38, with 33 cities scoring above the national average. Panaji, a city with a Less than Million population, is the highest scorer in this pillar at 62.42, closely followed by Chennai at 60.84, Coimbatore (60.33), and Navi Mumbai (59.93), all Million+ cities. Among Million+ cities, the top 10 cities have scored considerably close to one another, while in the case of Less than Million cities, there is some gap between the top scorer Panaji, and the rest of cities such as Tumakuru (56.52), Vellore (56.49), and Warangal (56.45) which are closely tied together.

Table 16: Ranking of Million+ cities in Quality of Life pillar scores

<table>
<thead>
<tr>
<th>Rank</th>
<th>Million+ City</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chennai</td>
<td>60.84</td>
</tr>
<tr>
<td>2</td>
<td>Coimbatore</td>
<td>60.33</td>
</tr>
<tr>
<td>3</td>
<td>Navi Mumbai</td>
<td>59.93</td>
</tr>
<tr>
<td>4</td>
<td>Indore</td>
<td>59.86</td>
</tr>
<tr>
<td>5</td>
<td>Vadodara</td>
<td>58.10</td>
</tr>
<tr>
<td>6</td>
<td>Pune</td>
<td>58.10</td>
</tr>
<tr>
<td>7</td>
<td>Surat</td>
<td>57.96</td>
</tr>
<tr>
<td>8</td>
<td>Bhopal</td>
<td>57.92</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank</th>
<th>Million+ City</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Kalyan Dombivali</td>
<td>57.80</td>
</tr>
<tr>
<td>10</td>
<td>Ahmedabad</td>
<td>57.46</td>
</tr>
<tr>
<td>11</td>
<td>Ludhiana</td>
<td>56.00</td>
</tr>
<tr>
<td>12</td>
<td>Bengaluru</td>
<td>55.67</td>
</tr>
<tr>
<td>13</td>
<td>Aurangabad</td>
<td>55.50</td>
</tr>
<tr>
<td>14</td>
<td>Varanasi</td>
<td>55.50</td>
</tr>
<tr>
<td>15</td>
<td>Prayagraj</td>
<td>55.33</td>
</tr>
<tr>
<td>16</td>
<td>Thane</td>
<td>55.04</td>
</tr>
<tr>
<td>17</td>
<td>Pimpri Chinchwad</td>
<td>54.79</td>
</tr>
<tr>
<td>18</td>
<td>Raipur</td>
<td>54.74</td>
</tr>
<tr>
<td>19</td>
<td>Madurai</td>
<td>54.49</td>
</tr>
<tr>
<td>20</td>
<td>Chandigarh</td>
<td>54.42</td>
</tr>
<tr>
<td>21</td>
<td>Ghaziabad</td>
<td>54.11</td>
</tr>
<tr>
<td>22</td>
<td>Nashik</td>
<td>53.29</td>
</tr>
<tr>
<td>23</td>
<td>Jaipur</td>
<td>52.99</td>
</tr>
<tr>
<td>24</td>
<td>Hubli Dharwad</td>
<td>52.53</td>
</tr>
</tbody>
</table>
### Table 17: Ranking of Less than Million cities in Quality of Life pillar scores

<table>
<thead>
<tr>
<th>Rank</th>
<th>Million+ City</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Visakhapatnam</td>
<td>51.93</td>
</tr>
<tr>
<td>26</td>
<td>Rajkot</td>
<td>51.86</td>
</tr>
<tr>
<td>27</td>
<td>Ranchi</td>
<td>51.86</td>
</tr>
<tr>
<td>28</td>
<td>Vasai Virar</td>
<td>51.84</td>
</tr>
<tr>
<td>29</td>
<td>Solapur</td>
<td>51.79</td>
</tr>
<tr>
<td>30</td>
<td>Amritsar</td>
<td>51.50</td>
</tr>
<tr>
<td>31</td>
<td>Gwalior</td>
<td>51.43</td>
</tr>
<tr>
<td>32</td>
<td>Kanpur</td>
<td>51.33</td>
</tr>
<tr>
<td>33</td>
<td>Lucknow</td>
<td>51.30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank</th>
<th>Million+ City</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>Hyderabad</td>
<td>51.28</td>
</tr>
<tr>
<td>35</td>
<td>Delhi</td>
<td>51.22</td>
</tr>
<tr>
<td>36</td>
<td>Greater Mumbai</td>
<td>51.12</td>
</tr>
<tr>
<td>37</td>
<td>Jabalpur</td>
<td>50.75</td>
</tr>
<tr>
<td>38</td>
<td>Nagpur</td>
<td>50.59</td>
</tr>
<tr>
<td>39</td>
<td>Vijayawada</td>
<td>50.40</td>
</tr>
<tr>
<td>40</td>
<td>Meerut</td>
<td>48.98</td>
</tr>
<tr>
<td>41</td>
<td>Jodhpur</td>
<td>47.66</td>
</tr>
<tr>
<td>42</td>
<td>Patna</td>
<td>47.02</td>
</tr>
<tr>
<td>43</td>
<td>Kota</td>
<td>46.42</td>
</tr>
<tr>
<td>44</td>
<td>Agra</td>
<td>45.72</td>
</tr>
<tr>
<td>45</td>
<td>Faridabad</td>
<td>45.57</td>
</tr>
<tr>
<td>46</td>
<td>Bareilly</td>
<td>45.48</td>
</tr>
<tr>
<td>47</td>
<td>Guwahati</td>
<td>43.65</td>
</tr>
<tr>
<td>48</td>
<td>Dhanbad</td>
<td>34.71</td>
</tr>
<tr>
<td>49</td>
<td>Srinagar</td>
<td>26.06</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rank</th>
<th>Less than Million</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Panaji</td>
<td>62.42</td>
</tr>
<tr>
<td>2</td>
<td>Tumakuru</td>
<td>56.52</td>
</tr>
<tr>
<td>3</td>
<td>Vellore</td>
<td>56.49</td>
</tr>
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The Quality of Life pillar comprises of seven categories, namely 1) Education; 2) Health; 3) Housing and Shelter; 4) WASH and SWM; 5) Mobility; 6) Safety and Security; and 7) Recreation. The highest performing category is Safety and Security with the highest national average score of 86.7, followed by Housing and Shelter at 79.5 and Education at 70.7. Subsequently, categories such as Health, Housing and Shelter, and Mobility have much lower national average scores, with Recreation the worst-performing category.

**Education:**

**Education** is an important component of human development, as it is intrinsic to increasing the capabilities and functioning of human beings while serving as an instrument to increasing income and standard of living. With the passage of the Right to free and compulsory education for all (RTE), the quality of education has varied across different regions in the country and witnesses immense inequalities in terms of the infrastructure available in rural and urban areas. Furthermore, continued access to education has also been dependent on social and economic locations of class, caste, and gender.
The top-scoring cities emerge mostly from southern states, with Thiruvananthapuram securing the top rank, followed by Belagavi, Chandigarh, Kakinada, Indore, Imphal, Bengaluru, Ajmer, and Amritsar in descending order.

The Education category evaluates cities based on eight indicators:

- Household Expenditure on Education
- Literacy Rate
- Pupil-Teacher Ratio at the Primary Level
- Pupil-Teacher Ratio at the Upper Primary Level
- Dropout Rate at Secondary Level
- Percentage of Schools with access to Digital Education
- Percentage of Professionally Trained Teachers
- National Achievement Survey Score

The top-scoring cities emerge mostly from southern states, with Thiruvananthapuram securing the top rank, followed by Belagavi, Chandigarh, Kakinada, Indore, Imphal, Bengaluru, Ajmer, and Amritsar in descending order. Some of these top-performing cities have emerged as positive outliers in terms of access to digital education, the share of professionally trained teachers, and low rates of dropout at the secondary level, which has accentuated the overall performance of these cities in this particular category.

The average household expenditure on education is around 20% of the total consumption expenditure in Indian cities. The top 10 cities with the highest household expenditure on education are all Less than
The average household expenditure on education is around 20% of the total consumption expenditure in Indian cities.

Million populated cities, such as Kavaratti, Pasighat, Panaji, Dahod, Tirunelveli, Dindigul, Aizawl, Rampur, and Rae Bareli. Million+ populated cities, on the other hand, have low levels of household expenditure on education, with cities such as Aurangabad, Bhopal, Varanasi, Prayagraj, and Dhanbad scoring well.

The literacy rate in a majority of Indian cities is higher than the national literacy rate of 74%\(^2\). More than 70% of the cities participating in this Index have an average literacy rate of 87.2%. Interestingly, the top-performing cities in terms of literacy rate have a moderate score across other education indicators.

North-eastern cities such as Aizawl, Imphal, Itanagar, Pasighat, Kohima, and Guwahati have a low pupil-teacher ratio at both the primary and secondary level, thus elevating their overall scores in the Education category.

More than 50% of the participating cities have less than 1 percent of dropout rates at the secondary level, with at least 38 cities emerging as positive outliers. On the other hand, 19 cities, with the likes of Gurugram, Chennai, Bhubaneswar, Bareilly, and Panaji have emerged as negative outliers in this particular indicator. Some of these cities are positive outliers in household expenditure on education, implying that the enrolment in government education institutions is much higher.

At least 34 cities have all teachers professionally trained, including Million+ cities such as Bengaluru, Delhi, Chennai, Greater Mumbai, and Chandigarh.

\(^2\) “State of Literacy”, under Census of India 2011: Final_PPT_2011_chapter6.pdf (censusindia.gov.in)
Health plays an important role in the overall well-being of human beings and thus becomes crucial to the quality of one’s life. Access to quality and affordable healthcare has been pivotal to debates on human development, and urban areas are blessed with the capital to host health facilities. The Health category thus evaluates cities based on the following indicators:

- Household Expenditure on Health
- Availability of Healthcare Professionals
- Accredited Public Health Facilities
- Availability of Hospital Beds
- Prevalence of Diseases
Imphal has scored the highest in the Health category, at 79.58, followed by Vellore (74.81), Port Blair (64.41) Shillong (63.13), and Mangalore (62.25). Imphal emerges as the positive outlier in both availability of healthcare professionals, and the prevalence of diseases.

The average household expenditure on health constitutes around 3% of the total household consumption expenditure. While Million+ cities such as Kochi, Karimnagar, Amravati, Warangal, and Gandhinagar account for a higher share in household expenditure in health, the average household expenditure is below 1% of the total household consumption expenditure in more than 80% of the cities participating in this index.

However, the performance of cities has been on the extreme-end while mapping the available health infrastructure. The median score for the availability of healthcare professionals and hospital beds are at 348.48 and 474.60 per lakh population respectively.

In terms of availability of accredited public health facilities, around 50% of the cities participating in this index have less than 1 percent of their total public healthcare facilities accredited by a standard quality assurance program (NQAS/NABH/ISO/AHPI), including Million+ cities such as Bhopal (0.0), Thane (0.0), Thiruvananthapuram (0.0), Vadodara (0.4), and Navi Mumbai (0.5). On the other hand, all public healthcare facilities
For most Million+ cities, the household expenditure on health remains on the lower end despite the higher prevalence of diseases. This has important implications for the public healthcare system in Indian cities, as the household expenditure on health is also low for these negative outliers, thus taking private healthcare out of the picture. This could imply that while healthcare systems are in place, they operate on informal networks beyond state regulation, and wherein many healthcare facilities may fall short in terms of quality standards, and secondly, the prevalence of private healthcare facilities may be much higher in many of these cities. Cities with a higher prevalence of diseases such as Malaria and Dengue have also scored less in at least one of other health indicators such as availability of healthcare professionals, hospital beds, and accredited public health facilities. For most Million+ cities, the household expenditure on health remains on the lower end despite the higher prevalence of diseases. On the contrary, a higher prevalence of diseases in Less than Million cities observes a higher share of health-related expenditure. Several hilly cities such as Gangtok, Imphal, Shimla, and Itanagar have emerged as positive outliers in this particular indicator.

C. Housing and Shelter

Urban areas are the destination for intra-state migration in India, with the promise of better jobs, livelihood opportunities, quality education, and access to healthcare. As the urban
population continues to grow exponentially in cities, a constraint develops in terms of accessing housing and shelter with limited land and increasing costs of living. Obtaining adequate housing is fundamental to honing an individual’s capabilities and exploring their full potential. The growth of cities is thus dependent on providing accessible housing that enables economic and social development. The Housing and Shelter category thus focuses on three indicators:

- Households with electrical connections
- Beneficiaries under PMAY
- Slum population

**Figure 7: Mapping of Housing and Shelter category scores**

In this pillar, 59 cities scoring above the national average of 79.52. The 19 Million+ cities that have scored below this national average include cities such as Pune, Chandigarh, Amritsar, Visakhapatnam, Faridabad, Lucknow, Vijayawada, and Coimbatore. On the other hand, some 33 cities with Less than Million population have scored below the national average, including cities such as Dehradun, Gurugram, and Greater Mumbai.
On the other hand, several big cities have a significant section of their populations residing in slums, including Greater Mumbai (45.7%), Visakhapatnam, Agra, Bhubaneswar, Hyderabad, Lucknow, and Pune. Interestingly, these cities have low coverage of beneficiaries under PMAY.

The Housing and Shelter category observes high scores from most cities, with both the mean and median closely placed at 79.52 and 80.31 respectively. Four cities emerge as perfect positive outliers in this category, namely Thiruvananthapuram, Delhi, Puducherry, and Bhopal. All households in these cities have electrical connections, and all identified beneficiaries are covered under PMAY. However, a significant section of the urban population ranging from 10-20% reside in slums in these cities.

All households have electrical connections in at least 63% of the cities participating in this Index, with 17 cities covering more than 90% of the households with electrical connections. Amongst these positive outliers, 39 are Million+, and 49 cities are from Less than Million cities. Cities with less than 90% of their households with electrical connections have emerged from central and northern parts of the country.

Only 31 cities have all identified beneficiaries covered under PMAY, including major cities such as Ahmedabad, Gurugram, Thiruvananthapuram, Bhopal, Kavaratti, Indore, Pasighat, Guwahati, and Meerut. More than 50% of the participating cities have less than 20% of identified beneficiaries covered under PMAY, including Shillong, along with other metropolitan cities such as Bengaluru, Chandigarh, Greater Mumbai, and Chennai.

 Twelve Less than Million cities have emerged as positive outliers in terms of slum population, with no section of the population residing in slums. This includes cities such as Gurugram, Varanasi, Meerut, Patna, Dhanbad, Shimla, Indore, and Jammu. Many of these cities have a 100% coverage of PMAY.

On the other hand, several big cities have a significant section of their populations residing in slums, including Greater Mumbai, Visakhapatnam, Agra, Bhubaneswar, Hyderabad, Lucknow, and Pune. Interestingly, these cities have low coverage of beneficiaries under PMAY.
Cities show the scope of improvement in the WASH (Water, Sanitation and Hygiene) & Solid-Waste Management category, with the average and median category scores at 32.70 and 33.12 respectively.

Vellore has attained the highest score in this category at 50.40, followed by Ahmedabad, Tirupati, Indore, and Rajkot (high scorers in Swachh Survekshan as well). The overall category scores for these cities have been accentuated by their full coverage of households receiving piped water supply and connection to sewerage networks. Vellore’s score has further increased with its high coverage of stormwater drainage networks.
Only 36.9% of the cities participating in this index have more than 90% of their households receiving piped water supply. A majority of these cities emerge from western and southern regions of the country, with cities such as Pune, Vellore, Tiruppur, Tirupati, Gurugram, Diu, Vasai Virar, Thane, and Thiruvananthapuram. On the other hand, 50% of the cities have around 40% of their households with piped water supply, including Bengaluru, and North-Eastern cities such as Itanagar, Guwahati, and Kohima.

50% of the cities have around 40% of their households with piped water supply, including Bengaluru, and North-Eastern cities such as Itanagar, Guwahati, and Kohima.

Ten cities have all households connected to the sewerage network, including Million+ populated cities such as Pune, Surat, Ahmedabad, Vadodara, Raipur, and Vasai Virar. On the other hand, 18 cities do not have any households connected to the sewerage network, mostly from the northern and north-eastern parts of the country.

Cities have also scored less in stormwater drainage networks, especially major cities such as Greater Mumbai, Hyderabad, Delhi, and Bengaluru.

Aligarh has scored the highest in wastewater treatment, followed by Dhanbad, Vellore, Ajmer, and Surat. 31 cities have emerged as negative outliers in this indicator, including most north-eastern cities.
E.

Safety and Security

Safety and Security is the highest performing category with a national average of 86.74.

Figure 9: Mapping of Safety and Security category scores
Cities observe a higher median score in the number of crimes recorded against women, as compared to the prevalence of violence, and crimes against the elderly and children.

Over 50% of the cities participating in this index have an average score of 95 in this category. Several positive outliers have emerged from the southern and north-eastern states, with low instances of crimes recorded against the elderly and children. Cities observe a higher median score in the number of crimes recorded against women, as compared to the prevalence of violence, and crimes against the elderly and children. While most of these cities emerge from the northern parts of the country, even top-performers in the Quality of Life pillar such as Indore, Delhi, and Gurugram have recorded a high incidence of crimes against women.

Of the 13 Million+ cities that have performed below average in this high-performing category are cities such as Faridabad (84.42), Indore (83.36), Gwalior (82.04), Delhi (79.36), and Vasai Virar (77.26), Raipur (76.49), Ranchi (71.88), Guwahati (71.09), Meerut (69.52) and Bareilly (69.47). Among Less than Million cities, Gurugram (82.61), Kochi (83.36), Bhubaneswar (85.91) have also scores below the national average.

Mobility

Urban mobility emerges as one of the greatest challenges to urbanisation. With growing resources and population, the need for expansion in transportation services arises. The prevalent modes of transportation vary across Indian cities in terms of public and private, but are commonly united in their motorised nature. To understand the mobility standards in Indian cities, the Mobility category has three indicators, namely:

- Availability of public transport
- Transport-related fatalities
- Road infrastructure
Ease of Living

Over 60% of the cities participating in this index have scored below the national average of 28.05. Chennai emerges as the only positive outlier with a score of 79.80, followed by a significant gap by Thane (48.40), Bengaluru (48.40), Bhopal (48.01), and Guwahati (47.73). The high scores in terms of Road Infrastructure have positively enhanced the scores of these top-performers in the Mobility category. Chennai’s performance has however been largely driven by the large presence of its public transport system.

Chennai’s figures for the availability of public transport is the highest at 92017.96 per lakh population, followed by Visakhapatnam at 21212.92 per lakh population. The low figures for cities such as Bengaluru (4409.62), Pune (2585.54), Navi Mumbai (2037.81), Delhi (1688.50), Ahmedabad (638.63) per lakh population indicate two things: Firstly, the public transport system is not efficient enough to support the population of respective cities; and secondly, these cities may be “automobile-dependent” for increased mobility fostered by rapid economic growth that encourages private vehicle ownership.

The public transport system is not efficient enough to support the growing population in cities such as Bengaluru, Pune, Navi Mumbai, and Ahmedabad.

Figure 10: Mapping of Mobility category scores

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3 Many cities can be defined as “automobile-dependent”, in order to meet the needs of transportation expansions with growing economic needs, defined through high rates of automobile ownership and mass transit. From “Urban Mobility: A comparative analysis of megacities of India” http://oii.igidr.ac.in:8080/jspui/bitstream/2275/127/1/WP-2010-023.pdf
The incidence of transport-related fatalities is much lower in Million+ cities such as Amritsar (4.84), Ahmedabad (5.92), Surat (6.47), Pune (7.12), Bengaluru (7.32), Delhi (12.43), Hyderabad (12.98) per lakh population. On the other hand, Less than Million cities emerging from hilly terrain such as Shimla, Namchi, Pasighat observe higher transport-related fatalities per lakh population. Positive outliers in the Road Infrastructure indicator also emerge from the top-performing cities in the Ease of Living Index, such as Bhopal, Thane, Navi Mumbai, Bengaluru, Panaji, Shimla, Greater Mumbai, along with Bhagalpur and Lucknow.

Recreation

Recreation is the poorest performing category with an average score of 11.68. Many cities have fallen short in providing open spaces for public use, and lack of entertainment and cultural centres, which have visibly brought down the overall category scores.
Some positive outliers emerge with cities such as Coimbatore, Navi Mumbai, Gandhinagar, Warangal, Gangtok, Pune, and Lucknow having a score above 30. Million+ cities such as Amritsar, Agra, Visakhapatnam, Chandigarh, and Vijayawada have scored the lowest, forming negative outliers. Other cities such as Greater Mumbai, Dehradun, Gurugram and Jaipur have also scored considerably lower than the national average.

Figure 11: Mapping of Recreation category scores
02. Economic Ability

Economic Ability is the worst performing amongst all the pillars, with an aggregate score of 13.17. Bengaluru has secured the highest score at 78.82, followed by Delhi (50.73), Pune (48.88), and Ahmedabad (48.19)- all of which are Million+ cities. Tiruppur is the highest scoring Less than Million city at 39.12, followed by Gurugram (32.50), Kochi (28.41), and Shimla (23.39).

Table 18: Ranking of Million+ cities in Economic Ability pillar scores

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Table 19: Ranking of Less than Million cities in Economic Ability pillar scores

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### Figure 12: Mapping of Economic Ability pillar scores

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There are two categories to the Economic Ability pillar—**Level of Economic Development**, and **Economic Opportunities**. The **Level of Economic Development** category is the best performing of the two, with the highest national average of 18.03. **Economic Opportunities** is the lowest scoring category at 8.30. While the **Level of Economic Development** has been measured based on per capita wages and factories present in these cities, economic opportunities focus on the accessibility to resources, in the form of credit and skills, that can help create livelihoods.
The top scorers in the Level of Economic Development category are Million+ cities such as Bengaluru, Pune, Ahmedabad, Thane and Chennai, cities with a legacy of industrial development that has a higher incidence of per capita factories.

**Level of Economic Development**

The Level of Economic Development category has 41 cities, of which 22 are Million+ cities, and 18 are Less than Million cities, scoring above the national average of 18.03. The top scorers in this particular pillar are Million+ cities such as Bengaluru, Pune, Ahmedabad, Thane, and Chennai. Less than Million cities such as Shimla, Gurugram, Kochi, Jaipur, Greater Mumbai, Diu, Gandhinagar, Kakinada have also scored above the national average. These cities have a legacy of industrial development and have been industrial hubs that could increase the incidence of per capita factories in the specific areas.

Of the 73 cities scoring below the national average, 49 are Less than Million cities and 24 are Million+ cities. Million+ cities such Hyderabad, Indore, Bhopal, Raipur, Lucknow, Chandigarh, are low scores, with Delhi scoring the lowest in this particular category at 1.45. Other Less than Million cities that have scored below include Patna, Bhubaneswar, Salem, and Panaji.

**Figure 13:** Mapping of Level of Economic Development category scores
Limited access to credit and skills development in Less than Million cities has brought down their Economic Opportunities score.

**Economic Opportunities** have 29 cities scoring above the national average, wherein 16 are Million+ and 13 are Less than Million. Delhi is the only positive outlier in this category with a perfect score, followed by Bengaluru at a significant gap at 58.15, Hyderabad (48.06), and Chennai (45.11). These top-scorers are also Million+ cities. The Less than Million cities that have also performed well include Kochi, Gurugram, Bhubaneshwar and Vellore.

Of the 82 cities scoring below the national average, 52 are Less than Million cities, and 30 are Million+. Million+ cities that have performed well in the overall Ease of Living Index rankings such as Surat, Pimpri Chinchwad, Vadodara, and Vasai Virar, have scored significantly less in this particular category.

There remains a high incidence of negative outliers in this pillar, emerging from Less than Million cities such as Kavaratti, Jhansi, Panaji, Silvassa, Shivamogga, to just name a few. The high occurrence of below-average scores, especially for Less than Million cities implies restricted access to credit and skills development, which can be attributed to lack of information regarding relevant schemes and programmes, and low levels of institutions that promote the same.
Figure 14: Mapping of Economic Opportunities category scores

03. Sustainability

Infrastructural capacity, economic opportunities and welfare services are already under tremendous pressure with rapid expansion of urban spaces. Yet, looming threats arising due to climate change have the potential to cause irreversible damage to the world as we know it. For India, the impact may be even higher. The World Risk Index (2020) places India as the fourth most at-risk country in South Asia, after Bangladesh, Afghanistan, and Pakistan. Globally, India ranks 89th out of 181 countries.

Further, the impact of climate change will not be evenly balanced as regions differ in terms of their geography, population, resources, economic development, and social inequalities. The disruption will not be merely physical. The most vulnerable sections of the population will be the most heavily impacted. There is evidence of the social impact of climate change concerning the relationship between climate change, poverty, and livelihood. However, the relationship
between climate change and within-country inequality has not garnered enough attention. (Islam & Winkel, 2017). IPCC’s Special Report on Global Warming of 1.5° C (2018) states that a temperature rise of 2° C will lead to conditions of extreme heat, drought, and vector-borne disease, compared to an increase of only 1.5° C. Even half a degree of temperature rise can worsen health conditions and lead to a public health crisis (Balakrishnan, 2018). Thus, essential health care services can be severely impacted. It is imperative that cities build resilience and develop sound infrastructure and services to swiftly tackle emerging environmental issues.

Table 20: Ranking of Million+ cities in Sustainability pillar scores

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Among the Million+ cities, Pune, Visakhapatnam, Pimpri Chinchwad, Ahmedabad, and Gwalior emerge as the best performers for the pillar of sustainability, whereas Vasai Virar, Guwahati, Coimbatore, Kota, and Bareilly ranked the lowest. In the Less than Million city category, Karnal, Shimla, Salem, Dharamshala, and Tirunelveli were the best-performing cities whereas Pasighat, Gangtok, Dahod, and Imphal had some of the lowest scores.

Table 21: Ranking of Less than Million cities in Sustainability pillar scores

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<td>62</td>
<td>Imphal</td>
<td>38.38</td>
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</table>
The following section evaluates Sustainability in cities through four categories of Environment, Green Spaces and Buildings, City Resilience, and Energy Consumption.
The analysis for the category of Environment constituted indicators including Water Quality, Total Tree Cover, Households using Clean Fuel for Cooking, Hazardous Waste Generation, Air Quality Index (measuring SO₂, NO₂, and PM10). A local environment that falls short in these indicators points to deteriorating local resources, which in turn affects the quality of life and impedes sustainability.

Tamil Nadu had six out of the top ten best performing cities including Madurai, Salem, Tiruchirappalli, Erode, and Chennai, with Tirunelveli taking the lead spot. Initiatives to promote afforestation, and sustainable green buildings, coupled with extensive efforts to support renewable energy have led to favourable results for Tamil Nadu. Other cities that performed well include Hubli Dharwad, Pimpri Chinchwad, Gwalior, and Dharamsala. Five of the best-performing cities in this category emerges from Less than Million cities, albeit with a higher number of laggards (Satna, Port Blair, Dahod, Rampur, Pasighat, among others).

If cities do not integrate environmental sustainability into their action plan for economic development, they are likely to fail in ensuring consistent progress in the long run. Cities have come to be regarded as the means to help acquire better standards of living. Yet, this drive towards progress also leads to concentration and depletion of resources, degradation of the local environment, and governance challenges, given the urgency of climate change.
Estimates point to close to 9 lakh deaths caused due to air pollution in 2016. In the same year, various Indian cities gained a reputation for poor air quality. WHO reported that twenty of the world’s most polluted cities belonged to India, including Kanpur, Delhi, Lucknow, and Patna.\(^4\) There are also persisting challenges in terms of access to quality water. A NITI report on the Composite Water Management Index (CWMI) (2018) stresses the urgency of water crises’s with 600 million Indians facing high to extreme water stress and close to 2 lakh people losing their lives due to lack of access to safe water. These numbers point to the gravity of the situation. Nevertheless, there has been an increased acknowledgment towards building a sustainable environment over the past decade or so, and these efforts need to be strengthened quickly.

There are significant challenges on the horizon as the world tries to decipher the implications of climate change. Increased policy attention at the helm of consolidated data-driven information is highly crucial to arrive at effective solutions.

B. Green Spaces and Buildings

Projections reveal that about two-thirds of the world’s population is expected to live in cities by 2050, accounting for 70% of emissions further contributing to climate change’s adverse effects. By 2050, India will have added 416 million urban dwellers. Crafting solutions that call for a reconceptualisation of urban spaces is, therefore, vital. The category for Green Spaces and Buildings includes indicators of Availability of Green Spaces, whether the City Incentivises Green Buildings, and the Presence of Green Buildings.

Findings reveal Pune as the best-performing city in terms of Green Spaces and Buildings. The performance swiftly begins to decline significantly after Karnal, as Greater Mumbai, Kochi, Hyderabad, Delhi, Indore, Lucknow, and Thiruvananthapuram do not particularly showcase exceptional performance. These cities fare closer to cities that have fared poorly for this category, i.e., Ujjain, Varanasi, Warangal, Bihar Sharif, Patna, and the like. It indicates a deficiency that has accumulated in urban cities concerning conscious planning to mitigate the risks associated with climate change and the current ecosystem.

By design, green buildings are made to reduce or eliminate adverse effects on the environment, simultaneously promoting positive environmental implications. Any structure can ensure these aspects, whether they are residential buildings, offices, or schools. For a building to be considered “green” it must comprise of various features:

A. Efficient use of resources such as energy and water
B. Incorporating renewable energy
C. Using measures to help with the reduction in pollution and waste and enabling recycling/reusing
D. Using sustainable materials for building
E. Ensuring good quality air environment indoors.
F. Providing consideration to the environment and ensuring adaptability to changing conditions

All these features are contingent on specific local conditions and must be designed and incorporated uniquely. The building sector is considered to have the most amount of potential in lowering emissions compared to all other industries, across countries (TERI n.d.). With its high growth in the construction sector, India has the potential to tap into this sector and make a significant impact.

Over the years, attempts have been made to promote energy efficiency and sustainability. From installing solar panels to promoting green buildings has accelerated the path towards sustainability. Subsequently, intensive efforts that are a part of informed planning of urban spaces and ensure adaptability to the swiftly spiraling urban spaces is the need of the hour to meet the urgency of the demand.

**Figure 17: Mapping of Green Spaces and Buildings category scores**
C.

Energy Consumption

With rising urban growth, energy consumption has also been on the rise. The category for Energy Consumption measured Energy Required Compared to the Energy Supplied, Energy Generated from Renewable Sources, and the Number of Energy Parks.

Cities that performed well in this category include Shimla, Raipur, Diu, Ahmedabad, Visakhapatnam, Meerut, Prayagraj, Bihar Sharif, Aizawl, and Lucknow. The cities that fared worse off were Kanpur, Dehradun, Rae Bareli, Bhopal, Dindigul, and Ranchi. Overall, the performance for the category of Energy Consumption remains positive.

In the past few decades, India has made consistent efforts in terms of its renewable energy consumption. India has ranked 4th in the Renewable Energy Country Attractiveness Index (RECAI) (2020), which ranks 40 of the world’s top markets based on their attractiveness in renewable energy investment and deployment. The report asserts that India’s solar PV capacity increased immensely in the past few years, reaching 35 Gigawatt (GW). At the same time, economic attractiveness led to record-low tariff bids, as India aims to achieve a target of 510GW of installed renewables by 2030.
Various states have also made tremendous efforts to catapult Renewable Energy Consumption. In the 2019-20 Budget, Rajasthan Government exempted solar energy from electricity duty, focusing on using solar power for agriculture and healthcare sectors. The Delhi government shut down a thermal power plant in Rajghat, aiming to redevelop it into a 5000 Kilowatt (KW) solar park. Initiatives have also been accelerated in increasing energy efficiency. District Energy Systems (DES) use diverse technologies such as combined heat and power (CHP), thermal storage, heat pumps, and decentralised energy that develop collaborations between production and supply of electricity, and other such measures. Incorporating DES in energy usage of city infrastructures such as solid waste management, public transport, and power supply vastly improve energy demand management. It provides energy efficiency at affordable rates while having a positive spillover for the environment. DES systems can reduce CO2 emissions by 58% by 2050. The District Energy Initiative from the UN Environment has identified energy efficiency projects worth $600 million in five cities across India. Subsequently, six rapid assessments of district cooling in Bhopal, Bhubaneswar, Coimbatore, Pune, Rajkot, and Thane have been undertaken to decipher the potential and challenges to the implementation process. These efforts accumulate slowly, contributing to energy efficiency and sustainable practices, ultimately preventing the limitation of resource availability and promising a better future.

D.

City Resilience

The category of City Resilience incorporated the following indicators: whether the City has Implemented Disaster Reduction Strategies and the Number of Deaths and Directly Affected Persons Attributed to a Disaster. Addressing climate change challenges, depleting resources, public health constraints, and the high frequency of natural calamities present significant governance challenges. As per the Internal Displacement Monitoring Centre (IDMC), close to 3.6 million people were displaced between 2008 and 2019, with monsoon and flooding accounting for most of the displacement. Additionally, the onset of sudden disasters such as earthquakes, tsunamis, cyclones, storm surges, and drought also leads to destructive results. An estimated average expected number of displacements per year due to natural disasters (earthquake, flood, storm surge, tsunami, cyclonic wind) is about 2.3 million. Since the onset of hazardous calamities is often erratic with a potential for monumental impact on the people and environment, building concrete city resilience is indispensable.

Close to thirty-four cities have been positioned as top performers with robust City Resilience, including Agartala, Ahmadabad, Ajmer, Amritsar, Bareilly, Bhopal, Bihar Sharif, Chandigarh, and Dindigul. Cities that were in the rear end of the scores include Silvassa, Muzaffarpur, Aizawl, Aligarh, Aurangabad, Imphal, Jammu, and Kochi. The difference in the rankings, however, is not very high. It signifies that cities, both Million+ and Less than Million, have performed well for the majority in ensuring a secure system of resilience.

Building concrete city resilience is indispensable, with the onset of hazardous calamities that have a monumental impact on the people and the environment.

[IDMC Country Information: India https://www.internal-displacement.org/countries/india]
At its crux, urban resilience refers to 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” (City Resilience Framework 2015). Resilience is fostered through innovative solutions, safeguarding against risks and conditions of chronic stress. Cities only survive if they have cultivated practices that ensure adaptability. Various initiatives are undertaken by cities such as the Integrated Disease Surveillance Project (Indore), End to End Early Warning System for Ukai and Local Floods (Surat), Urban community-based micro-resilience model of ward exposed to climate and hydro-meteorological risks (Gorakhpur) helps streamline efforts to strengthen efforts to build resilience in Indian cities (TERI, 2020). Consequently, recognizing the need for such initiatives asserts an understanding of the implications in the present world, which helps cities mitigate risks and unforeseen disasters.
04.

Citizen Perception Survey

The Citizen Perception Survey acts as an instrument to validate the citizens’ experience in service delivery and assess whether it is congruent with the Ease of Living Index findings. The survey seeks to evaluate the role of administration through performance in public service delivery, providing insights directly from the citizens.

The assessment was conducted along the pillars of Quality of Life, Economic Ability, and Sustainability, similar to that of the Ease of Living Index. Citizen ratings were primarily based on their accessibility and availability, affordability, and quality.

In the domain of quality of life, citizens were asked to rate their Education and Health System, Housing and Shelter Facilities, and Wash and Swm Facilities, Mobility, Safety and Security Services, and Recreational Facilities. Economic Ability was measured in terms of the availability of job opportunities in the city and women’s presence in the workplace. On the other hand, Sustainability was measured within the parameters of quality of the Environment, government measures, Availability of Green Spaces, Energy Consumption and Supply, and efficacy of the City’s Resilience.

Apart from the three pillars mentioned above, citizens were also asked to evaluate their city on the criterion of public services and governance, wherein they had to rate the efficiency and involvement of their local municipalities.

Table 22: Ranking of all cities under Citizen Perception Scores

<table>
<thead>
<tr>
<th>Rank</th>
<th>City</th>
<th>Citizen Perception Score</th>
<th>Ease of Living Index (without CPS)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Bhubaneswar</td>
<td>94.80</td>
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<tr>
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<td>Solapur</td>
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<th>Ease of Living Index (without CPS)</th>
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<td>Thiruvananthapuram</td>
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<td>31.85</td>
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Bhubaneswar took the lead for the *Citizen Perception Survey*, followed by Silvassa, Davangre, Kakinada, Bilaspur, and Bhagalpur. The top-performing cities have a population base of Less than Million. The cities that scored the least include Rampur, Vijayawada, Amravati, Namchi, Tiruppur, Aligarh, Belagavi, Tirupati, Nashik, and Amritsar. Notably, the cities that hold the top ten ranks according to the citizen perception survey do not necessarily perform highly in the Ease of Living Index. Similarly, the cities that emerged as top performers in the index did not have the highest survey scores. However, there is no linear relationship between the results of the survey and the index.

The outcome leaves the impression that the residents of the well-performing cities were stricter in their evaluation compared to other cities. It can be concluded that cities with better accessibility to governance information, facilities, and services are likely to perform well in the survey even if their performance for the index is lower. Alternatively, even if cities excel in their performance across the pillars of the index, but fail to ensure transparency, and accessibility, or had a lower rate of citizen participation, their score in the survey is likely to plummet.
05.

Key Findings

A. Existing regional disparity reflects in the index scores

The index scores also give an insight into the region-wise status of urban development. The rankings show that most of the top performers are concentrated in the prosperous states located in western and southern India. On the other hand, cities in historically backward states that are mostly located in the northern and eastern parts of the country are featured in the bottom of the ranking.
While low-scoring cities are present in all parts of the country, the map below shows that high-scoring cities are mostly present in the South and the West, with a few in North. The eastern and northern parts of the country have a majority of the low-scoring cities. This is representative of the regional disparity that exists in the country, which is a cause for concern.

Since the turn of the century, the northern and eastern regions have lagged behind the rest of the country in terms of economic growth and development. Despite efforts to correct the imbalance, the gap is only widening. To take the example of per capita income, the top five states based on per capita income were 145% richer than the bottom states in the early 2000s. The gap increased to 289% in 2010-11, and to 338% in 2017-18. Urbanisation can be a vehicle for change in these states if the efforts towards the same are accelerated and tailored to their needs, and most importantly, executed in a planned manner. One of the major sources of urban developmental issues is the lack of planning in urbanisation. Cities in India tend to grow organically and haphazardly, which later result in challenges like inadequate access to housing and shelter, shortage in water supply, congestion, air pollution, etc.

The population-wise distribution of scores naturally show a similar pattern. However, the disparity in scores is more pronounced in Million+ cities.
The prevalent regional disparity becomes apparent with the presence of high-scoring cities in the South and West, while low-scoring cities are located in the eastern and north-eastern parts of the country.

Among the cities with Less than million population, some of the southern and western counterparts also report low scores because they consist of small cities and urban agglomerations. Thus, this category does not include the most prosperous cities of the country, which puts the cities in this category on a level playing field to some extent (as shown in Figure 23).

On the other hand, among Million+ cities (as shown in Figure 22), the southern and western parts of the country include majority of the metropolitan cities of the country. Since these cities are leading in urban development, they leave the eastern and northern regions far behind. This is why greater disparity is visible among Million+ cities.

**Figure 22:** EOL Index scores among Less than million population cities
Metropolitan cities are the epicentres of economic activity. Having the highest levels of urbanisation, they consequently report the highest rates of economic growth and innovation, and attract migrants seeking better employment opportunities and standard of living from all parts of the country. Hence, their index scores also stand apart from the rest of the cities. Out of the 111 participating cities surveyed, all the major metropolitan cities have finished within the top 32 positions. They are also among the positive outliers in some of the pillars and categories, and have, therefore, lifted up the scores for the pillars by significant points. Bengaluru has scored the highest in the Economic Ability pillar, while Pune has taken the lead in the Sustainability pillar. Chennai has scored the highest in the Quality of Life pillar.
Figure 24: Ranking and Scores of major Metropolitan Cities across Ease of Living Index
It should be noted that Economic Ability is the worst performing pillar, with a wide score range of 0.55 and 78.82. With a score of 78.82, Bengaluru’s performance surpasses the rest by a long distance and raises the average score for the pillar to 13.17. Bengaluru’s high score can be particularly ascribed to its performance in the category, Level of Economic Development, wherein it has achieved a score of 99.50 and raised the average category score to 18.03. Similarly, cities have performed poorly in the Economic Opportunities category, but even the average score of 8.30 is highly influenced by Delhi’s perfect score of 100 in that category.

Sustainability is another pillar where a metropolitan city, Pune has emerged as the top performer. While the cities show a fairly balanced performance in this pillar, one of its categories, Green Building’s average score of 12.49 is highly influenced by Pune’s score of 100.

In the Quality of Life pillar, the metropolitans have performed well but did not manage to secure the top score. Nevertheless, they have influenced the category score to some extent; Recreation is the lowest-performing pillar, where Navi Mumbai’s score of 47.75 impacts the overall average of 11.68. Mobility is one of the weakest performing pillars, but Chennai’s highest score of 79.80, owing to its well-connected and economical public transport system elevates the average score to reach 28.05.

Hence, it can be deduced that metropolitan cities contribute significantly to the overall index scores. Owing to their balanced urban development and excellent performance in select pillars, the CPS scores are also high for these cities.
C. Observations from Variance of scores

The variance in the scores of the pillars and categories of the Ease of Living Index puts forth some interesting insight with respect to the scores of different cities.

Firstly, the median scores for categories in Quality of Life (such as Education, Health, Housing and Shelter, WASH & SWM, Safety and Security) are relatively on the higher side. On the other hand, the median scores for Economic Ability and its categories such as Level of Economic Development and Economic Opportunities have the lowest median scores, with majority of the cities scoring between 0-20 out of 100. The scores for sustainability and its categories are also on the higher end, except for the scores on green buildings. This essentially puts forth a high-level of disparity in pillar and category scores across different Indian cities, wherein the sub-components of Ease of Living are essentially not at par (Figure 25).
Secondly, while delving deeper into economic ability, both its categories have attained low scores (Figure 25). While the indicators measuring Level of Economic Development are based on Factories per Lakh Population, and the per Capita Wages, the low score on this category has been attained by a majority of the cities. Interestingly, the category also has several positive outliers in cities such as Bengaluru, Pune, Hyderabad, Ahmedabad, Vadodara, Thane, Navi Mumbai, etc. Two things can be observed from this: 1) the positive outliers are situated in industrial hubs, that are focused on manufacturing; and 2) these positive outliers are also metropolitan cities, located in the southern and western parts of the country. One justification for the low scores for majority of the Indian cities can be on the basis of the indicators itself- that economic activity can be driven by activities other than manufacturing, such as trade and services. However, positive outliers also include cities such as Bengaluru that are significantly service-exporting in nature.

But perhaps the most concerning aspect of this variation lies in scores attained in the Economic Opportunities category (as shown in Figure 25). With a national average of 8.30, and a median score of 4.32, the indicators that measure Economic Opportunities focus on credit accessibility and skill development- essentially the resources that can enable one to be economically productive. Like Level of Economic Development category, Economic Opportunities also see several positive outliers in major cities such as Bengaluru, Hyderabad, Chennai, Greater Mumbai. The goal of financial inclusion has clearly not permeated beyond these major cities to rest of Indian cities, and can affect the growth of these cities into potential economic hubs.

Fourthly, the majority of the negative outliers in all these categories emerge from the cities in northern and north-eastern parts of the country. Certain specific cities such as Srinagar, Dhanbad, Bihar Sharif, Bareilly have consistently emerged as negative outliers in most of the categories. While some of these cities have historically been part of areas known for violence and civic strife, it has evidently permeated into the ease of living in these cities, thereby resulting in lower scores. As urban local self-governments are responsible for functioning of most of these categories, a lack of stable environment essentially affects the mitigations of essential services of these self-governments that create these urban spaces.
Fifthly, the cities that have scored high in categories such as *Education* and *Health*, in the likes of Dhanbad, Imphal, Thiruvananthapuram, Shillong (to just name a few), have attained low scores in *Economic Ability* (as shown in Figure 25). While these categories are focussed on increasing human capital, they have not necessarily contributed economically in these cities. On the other hand, high scores on *Economic Ability* pillar, such as Bengaluru, and Chennai have also attained high scores on *Education* category, but falls significantly short on *Health*, which is a crucial to increasing human-capital.

**Figure 25:** Comparing Imphal, Dhanbad, Bengaluru and Chennai on Education, Health, Mobility, Level of Economic Development and Economic Opportunities categories

It can be inferred that major cities, which are known for being destination-cities for internal migration, tends to attract human capital resources from across the country, especially from northern and north-eastern cities. This attraction can be perhaps accrued to its high performance in ease of living, which positively encourages and enables the growth of a cosmopolitan culture that helps migrants to expand their kinship and communities, while contributing to its economic growth.
Finally, urban agglomerations serve as important tools for market linkages, thereby bridging the gap in an urban-rural divide. But as cities become a focal point for the interaction of myriad cultures, it also paves the way for amalgamation of an urban culture, that reflects its cosmopolitanism, pushed forth by its public mobility, and imagined through recreation in the form of the arts. The low median scores for categories such as Recreation and Mobility thus hints at the infancy of this cosmopolitan imagination in India’s urban spaces, further reinforcing the divide between its major cities, and the rest of Indian urban centres (as shown in Figure 25).

D. Ease of Living vis-a-vis citizen perception

The Citizen Perception Survey (CPS) has 30% weight in the Ease of Living Index score for each city. Interestingly, the average score attained by CPS surpasses all other pillars, with a national average score of 76.08. The high scores attained in CPS, however, is not consistent with the scores across various pillars and categories. A high score in CPS essentially indicates that the residents’ evaluation of the performance of cities is better than their actual performance. Bhubaneswar is the highest scorer with a score of 94.80, followed by Silvassa (93.50), and Davanagere (90.50), all of whom are cities having Less than million population. Solapur (88.80) is the highest scorer among Million+ cities, followed by Jodhpur (87.10).
Interestingly, the top scorers under this pillar have not performed as well in the other pillars. In other words, the residents are much lenient in their evaluation of performance in cities where the liveability is comparatively lower. Citizens in well-performing cities on the other hand are relatively stricter in their evaluation: Bengaluru, which scored the highest in the index score excluding CPS could only secure a score of 78.00 in the CPS. Similarly, none of the top 10 scorers in the index could be featured within the top 10 performers under the CPS pillar.

Table 23: Top performers in Citizen Perception Survey and Ease of Living Index (excluding CPS) respectively

<table>
<thead>
<tr>
<th>City</th>
<th>Ease of Living Index</th>
<th>CPS</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhubaneswar</td>
<td>31.42</td>
<td>94.80</td>
<td>63.38</td>
</tr>
<tr>
<td>Silvassa</td>
<td>30.38</td>
<td>93.50</td>
<td>63.12</td>
</tr>
<tr>
<td>Solapur</td>
<td>29.94</td>
<td>88.80</td>
<td>58.86</td>
</tr>
<tr>
<td>Jodhpur</td>
<td>29.67</td>
<td>87.10</td>
<td>57.43</td>
</tr>
<tr>
<td>Agartala</td>
<td>29.28</td>
<td>86.40</td>
<td>57.12</td>
</tr>
<tr>
<td>Davanagere</td>
<td>28.10</td>
<td>90.50</td>
<td>62.40</td>
</tr>
<tr>
<td>Bhagalpur</td>
<td>26.90</td>
<td>84.30</td>
<td>57.40</td>
</tr>
<tr>
<td>Rae Bareli</td>
<td>26.14</td>
<td>83.60</td>
<td>57.46</td>
</tr>
<tr>
<td>Imphal</td>
<td>23.60</td>
<td>86.80</td>
<td>63.20</td>
</tr>
<tr>
<td>Bilaspur</td>
<td>23.59</td>
<td>85.30</td>
<td>61.71</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>Ease of Living Index</th>
<th>CPS</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bengaluru</td>
<td>43.30</td>
<td>78.00</td>
<td>34.70</td>
</tr>
<tr>
<td>Pune</td>
<td>42.81</td>
<td>78.20</td>
<td>35.39</td>
</tr>
<tr>
<td>Ahmedabad</td>
<td>40.18</td>
<td>82.30</td>
<td>42.12</td>
</tr>
<tr>
<td>Chennai</td>
<td>37.83</td>
<td>82.60</td>
<td>44.77</td>
</tr>
<tr>
<td>Surat</td>
<td>37.31</td>
<td>81.40</td>
<td>44.09</td>
</tr>
<tr>
<td>Navi Mumbai</td>
<td>36.88</td>
<td>82.40</td>
<td>45.52</td>
</tr>
<tr>
<td>Delhi</td>
<td>36.74</td>
<td>69.40</td>
<td>32.66</td>
</tr>
<tr>
<td>Pimpri Chinchwad</td>
<td>36.70</td>
<td>68.20</td>
<td>31.50</td>
</tr>
<tr>
<td>Thane</td>
<td>36.32</td>
<td>72.80</td>
<td>36.48</td>
</tr>
<tr>
<td>Shimla</td>
<td>35.91</td>
<td>83.30</td>
<td>47.39</td>
</tr>
</tbody>
</table>
Figure 26: Comparing Ease of Living without CPS scores amongst top 10 scorers respectively

As evidenced in the graph above, the top 10 scorers in CPS have a significantly low score in Ease of Living Index, and thus a higher difference between the two scores. The top scores in the Ease of Living Index have a comparatively lower CPS score, and thus the difference between the two scores is significantly low. This could imply two things:

1) A higher CPS score could be attributed to ease of accessing governance and public services from these cities, and availability of information regarding these services. Thus, a lower performance on these categories would still translate into a higher CPS score, as citizens appear to be more aware of the governance processes in their own cities; and

2) a lower CPS score in cities with high EoL scores could contrast with public perception of accessing public services, due to information asymmetry and low citizen participation in public processes.

However, it does not imply that the CPS scores are perfectly inverse to the actual performance (EOL scores without incorporating CPS scores) of cities, as the two do not have a linear relationship. Nevertheless, it can be definitely deduced that residents in worse-performing cities have a lower benchmark of evaluation, whereas residents in better performing cities have a higher benchmark and greater demands from the city. Inversely, it can also be said that a higher benchmark of evaluation by citizens push the
city administrations to reform their policies and strive for improvement in developmental outcomes.

Delving deeper into the CPS scores in accordance with the pillars of EoL, the inverse in CPS and EoL performance is specifically highlighted in the case Economic Ability. The perception of economic well-being is high, as compared to actual performance on these particular indicators, as shown in the graph below. Bengaluru is the only city that has scored significantly well in economic ability, but its citizen’s perception is much lower comparatively. On the other hand, cities such as Bhubaneswar have scored much less on economic ability categories, but have an exceptionally good public perception of their performance. This trend has also been evidenced in the case of the top scorers in both CPS and EoL w/o CPS.

Figure 27: Correlation between Economic Ability and CPS scores across cities
On the other hand, the reverse has happened in the case of QOL and CPS scores. In this case, a higher performance in Quality of Life pillar has not necessarily translated into a higher score on the Citizen’s perception survey. Some top-scoring cities such as Chennai, Indore, Pune, have scored between 80-85 on the CPS. As mentioned above, it could indicate that the benchmark of evaluation is much higher in these cities, wherein there is an improved standard of living, but its citizens may not be of the same opinion. A causation for this might lie in restricted access to these services, in terms of information asymmetry and physically accessing the same. Cities such as Bhubaneswar and Silvassa have scored significantly high on the CPS, but Bhubaneswar does not rank within the top 50 cities in terms of Quality of Life. This further indicates that while there might be a dearth of services in these cities, their citizen’s perception is higher of the same due to ease of accessibility and widespread information, and lower benchmark of evaluation regarding the same.

**Figure 28: Correlation between Quality of Life and CPS scores across cities**
Achieving Sustainable Development Goals at City Level

One of the key objectives of this report is to stimulate and fulfil the outcomes of sustainable development goals. The framework incorporated in the Ease of Living Index also provides measures for a city’s SDG performance.

The Sustainable Development Goals (SDGs) comprise a set of 17 goals, 169 targets, and 306 national targets to achieve greater human well-being. Through a commitment of “leaving no one behind”, the SDGs aim to achieve their targets by 2030. The Government of India has also committed to Agenda 2030 along with the SDGs. While India is far from achieving all these goals, the SDGs bring forth a credible standard of measure to assess a country’s progress across vital areas such as eliminating poverty, ensuring good health and well-being, gender equality, clean water and sanitation, economic growth, and sustainable cities and communities.

Moreover, there is a crucial relationship between achieving
the targets set by SDGs and urbanisation. India has one of the fastest rates of urbanisation. How Indian cities manage this sprawling urban expansion will determine their ability to eliminate poverty, ensure sustainability, provide access to clean water and sanitation, and other such targets stated in the SDGs.

Applying an urban-nexus approach to achieve SDG targets will help accelerate efforts to achieve India’s development goals. This approach calls for optimal utilisation of resources by recognising the interdependencies between water, energy, agriculture, and food, instead of limiting these resources into sectoral management without any coordination. Failure to manage interactions between various urban sectors can lead to inefficiencies, failure to optimise cost savings, and lost opportunities to capture and utilise potential synergies across sectors.\(^{10}\) The urban nexus approach directly addresses the sustainable development goals of zero hunger, clean water and sanitation, affordable and clean energy, sustainable cities and communities, and responsible consumption and production.

### Figure 29: Important Sustainable Development Goals in the context of Ease of Living Index

- **2 Zero Hunger**
- **6 Clean Water and Sanitation**
- **7 Affordable and Clean Energy**
- **11 Sustainable Cities and Communities**
- **12 Responsible Consumption and Production**

India’s commitment to achieving the SDG targets is also reflected in the alignment of the National Development Agenda with SDGs, while the policy paradigm of India demonstrates the focus towards urban development through the implementation of various programs. For example, the Ayushman Bharat (Pradhan Mantri Jan Arogya Yojana) which aims to provide healthcare to 500 million people corresponds with SDG 3 (health and well-being) and SDG 10 (reducing inequalities).

Nevertheless, implementing and tracking SDGs on the city level may prove to bring more lucrative results. Notably, cities that exhibit better urban management also prove to be more capable of achieving a better quality of life for their people.

The Ease of Living Index helps discern the ability that Indian cities and their governance structure possess. It helps identify the capacity of these cities to achieve broader development objectives and sustainable development goals. The data presented in the study elucidates specific areas which showcase best practice, sectors that need to be improved, and existing trends that must be taken into consideration before policymakers take decisive measures. Perhaps a city-level implementation and monitoring system for achieving SDG targets that incorporates the urban-nexus approach can significantly jumpstart urban development.

\(^{10}\) UNESCAP, 2020. Applying Urban Nexus Approach for Achieving Sustainable Development Goals (SDGs)
Cities across the globe encounter a range of socio-economic challenges to development. Such challenges are more pronounced and acute in developing countries like India, where rapid urban and demographic expansion occurs without a robust governance framework.

The findings of the Ease of Living Index provide a data-driven assessment of the city residents across three pillars of quality of life, economic ability, and sustainability. Effective urbanisation can take place within the purview of this index as it sheds light on critical challenges to urban development that impedes growth and predominantly impacts the lives of city dwellers.

Some key actions that authorities can undertake are discussed below.

**Local Initiatives for locally defined problems:**
Given the complexity of urban areas and the factors that shape its existence - political economy,
the agency of vulnerable groups, the prevalence of economic opportunities, access to resources- there cannot be an all-encompassing model of urban development. Local solutions to locally defined issues prove to be more successful when it generates a supportive environment from local actors and community stakeholders. A diverse range of indicators and findings that arrive at varying strengths and weaknesses for each city indicates a need for implementing specific programs, unique to each city. Thus, drawing from the findings of the Index, cities can strategise and implement initiatives best suited for them.

Enhancing the capacity of municipalities:
Efficient urban governance must ensure that municipalities are strengthened to better plan and manage local institutions and resources to accelerate urban growth. Building the capacity of municipalities and providing them with better financial management is imperative, especially since many municipalities lack the skills, capacity, and resources to function effectively.

Furthermore, promoting efforts to achieve sustainable development goals at the city level can potentially garner more successful results and ensure a better quality of life for the people. Capacity building sessions that propagate SDG targets and remove complexities in the implementation of programs in urban local bodies is one such way of achieving better development outcomes.

Improving Governance and Services:
Access to resources including affordable housing, waste management, clean water, sanitation, etc. cements the foundation for quality of life. Despite the common perception that urbanisation inevitably leads to better access to quality service delivery, stark inequalities present in society prevent sections of the population from accessing these services. Constraints in governance may lead to problems that manifest itself in poor service delivery.

<table>
<thead>
<tr>
<th>Governance Constraint</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political market imperfections</td>
<td>Political logistics often based on patronage or clientelistic relationships, contributing to short-term, populist policies and biases to visible outputs.</td>
</tr>
<tr>
<td>Policy incoherence</td>
<td>Insufficient performance regulation and weak accountability contributing to users exiting from the provision</td>
</tr>
<tr>
<td>Levels of performance oversight or monitoring</td>
<td>Weak capacity of actors to coordinate their activities and work together productively</td>
</tr>
<tr>
<td>Moral hazard</td>
<td>Availability of aid or other resources that insulate the state (or others) from the consequences of their actions or inaction</td>
</tr>
</tbody>
</table>

Table 24: Key Common Governance Constraints

Source: Adapted from Wial et al., 2014 in Jones, Cummings, and Nixon (2014)
Consequently, it is essential to recognise and build on “sector characteristics” and “common constraints” and include specific considerations of urban characteristics that influence services (Jones, Cummings, & Nixon, 2014). It, therefore, becomes increasingly important to review the political economy and governance factors across the urban environment in question, local municipal governance arrangements, and sector-specific characteristics across the entire services production cycle.

**Peer-learning for better development outcomes:**
The index identifies how cities across India perform in different, equally vital pillars of quality of life, economic ability, and sustainability. The results of the index indicate cities that perform impressively across these pillars and may serve as role models to those cities that emerged at the rear end of the spectrum with scope for improvement. The cities of Bengaluru, Pune, Ahmedabad, and Chennai demonstrate better living conditions in the category of Million+ city. In contrast, Shimla, Bhubaneswar, Silvassa, Kakinada, and Salem showcase enhanced quality of life in the Less than Million city category. By the same token, cities that excel in specific pillars or even categories can serve as a source of learning for their peers. For example, Panaji excels in the pillar for Quality of Life, and Tirunelveli emerges as the best performer for the category of the Environment.

**Making Urban Spaces as Economic Units:**
Estimates from 2011-12 reveal, urban areas in India contribute somewhere between 52.6 percent and 64.9 percent of the national output despite accounting for a lower share of the population compared to its rural sections of the population. Increasing productivity levels that drive economic growth have led to an expansion of urban areas. However, for urbanisation to lead to greater economic gains,
there must be an increased accumulation and aggregation of productive knowledge to enhance technological progress and overall development. The migrant crisis has also highlighted the need to develop India’s urban spaces and focus on regional development. It has spelled out the need for informed policy decisions driven by extensive data. But a major impediment in this is the dearth of regional or state-level data, since most data sets are only available at the state or national level. Additionally, the data sets are often developed in isolation and may not be complementary to each other. The policies and programmes implemented must also take place in harmony with each other to ensure the best outcome. Sector-specific policies may be undertaken, but they must not be incompatible with each other. Similarly, state governments must refrain from classifying cities into different economic contexts, and prevent obstructive competitive environment. Such ideas stem from the belief that urbanisation leads to definite economic gains.

Nevertheless, the constitutional status given to Urban Local Bodies must be practiced mindfully to avoid overwhelming the local governance structure. Nations generate prosperity only when their cities can function effectively, as economic development enterprises ensure inclusive development, especially in the face of widening inequalities.

**Gender-sensitive governance:**
Efficient urbanisation practices can facilitate better outcomes for women by recognising disparities and providing solutions to the same. Cities promise improved living conditions for women. It provides access to all levels of education, with a better rate of transition to higher education, i.e., secondary and tertiary levels of education; access to better economic and work opportunities and lower levels of social and cultural constraints. However, the lack of substantial efforts to curb disparities and equip women with autonomy often restricts their growth. It is fundamental to incorporate gender-sensitive governance practice. Such a practice provides for women's representation and participation in policy decisions. It also ensures the overall well-being of women by addressing gender-specific issues such as violence against women, and incorporating inclusive elements such as gender-budgeting.
Today, urban expansion is rooted at the heart of development. The rapid pace of its growth further emphasises the need for efficient urban governance. Since the economic and social development of urban areas is highly dependent on local governance structures and administration, it becomes increasingly important to aid and guide local administration through data-driven information that identifies key issues and facilitates better reforms.

The Ease of Living Index 2020 attempts to assess and highlight the ability of cities to improve the living standard of their residents by mapping various aspects to living standards across different urban areas in the country. A notable conclusion derived from this study points to the existing disparities in the conception of ease of living itself.

The cities that emerged as the best performers across pillars are metropolitan cities with a legacy of industrialisation and finance. Consequently, these cities already enjoy the historical advantage of being urban centres, further allowing them to expand networks of urban governance and improving their performance.
across other pillars of Quality of Life and Sustainability. However, the Ease of Living in such cities remains unequal compared to other Indian cities, particularly those in eastern and north-eastern regions. An average score of 76.08 in the Citizen Perception Survey indicates that despite variance in scores across all pillars and categories, citizens showcase a positive perception of their cities. In fact, the CPS scores have contributed to significantly elevating the ranking of various cities, even if they had low scores in the pillars. This fact alludes to the divergence between actual municipal performance in the delivery of services that enable ease of living and the public opinion, formed from the end-usage of such services and governance.

Essentially, this report aims to not only highlight the strengths of city administrations in assuring a certain standard of quality of life, but also the weaknesses that obstruct local governance in its daily functionalities. With the help of this index, city administrations will generate and share good practices that can improve the quality of life. The Ease of Living Index 2020, thus hopes to catalyse the vision of the 74th Amendment Act, 1992, which proposes to constitute a uniform structure of Municipal Corporations, Municipal Councils, and Nagar Panchayat, based on the population and grants them a constitutional status through universal adult franchise. Thus, it is hoped that this index enables an improved standard of Ease of Living for these urban bodies as they function as effective units of Local Self Government.
09.

City Profiles

Million+
(cities with *more than a million* population)
Agra

Category: Million+

Rank 35

Ease of Living Index
Quality of Life
Education
Health
Housing and Shelter
Mobility
Safety and Security
Recreation
Economic Ability
Level of Economic Development
Economic Opportunities
Sustainability
Environment
Green Building
Energy Consumption
City Resilience
Citizen Perception Survey

Variation across Pillars, Categories and Cities

City Scores and Best Score Comparison

Scores
City Score
Best Score

Indicators
Values
Ahmedabad

Category: Million+

Rank 03

Ease of Living Index

Quality of Life

Education

Health

Housing and Shelter

WASH & SWM

Mobility

Safety and Security

Recreation

Economic Ability

Level of Economic Development

Economic Opportunities

Sustainability

Environment

Green Building

Energy Consumption

City Resilience

Citizen Perception Survey

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Amritsar

Category: Million+

Rank 45

Variation across Pillars, Categories and Cities
Aurangabad

Rank 34

Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Bareilly

Category: Million+

Rank 47

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities

Rank 01
Bengaluru
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Bhopal

Category: Million+

Rank 19

Variation across Pillars, Categories and Cities
Chandigarh

Category: Million+

Rank 29

Ease of Living Index
Quality of Life
Education
Health
Housing and Shelter
WASH & SWM
Mobility
Safety and Security
Recreation
Economic Ability
Level of Economic Development
Economic Opportunities
Sustainability
Environment
Green Building
Energy Consumption
City Resilience
Citizen Perception Survey

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 04
Chennai
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 07
Coimbatore
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Delhi

Category: Million+

Rank 13

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Dhanbad
Category: Million+

Rank
48

Variation across Pillars, Categories and Cities
Rank 40
Faridabad
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Ghaziabad

Category: Million+

Rank 30

Variation across Pillars, Categories and Cities

City Scores and Best Score Comparison

Legend

City Score

Best Score
Greater Mumbai
Category: Million+

Rank 10

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Guwahati

Category: Million+

Rank 46

Variation across Pillars, Categories and Cities

City Scores and Best Score Comparison
Gwalior

Category: Million+

Rank 31

Ease of Living Indicators

- Quality of Life
- Education
- Health
- Housing and Shelter
- WASH & SWM
- Safety and Security
- Recreation
- Economic Ability
- Level of Economic Development
- Economic Opportunities
- Sustainability
- Environment
- Green Building
- Energy Consumption
- City Resilience
- Citizen Perception Survey

Variation across Pillars, Categories and Cities

City Scores and Best Score Comparison
Hubli Dharwad

Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities

Ease of Living Indicators

Hyderabad

Category: Million+

Rank 24

Variation across Pillars, Categories and Cities

City Scores and Best Score Comparison
Indore
Category: Million+

Rank 09

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Jabalpur

Category: Million+

Rank 43

Ease of Living

Indicators

- Quality of Life
- Education
- Health
- Housing and Shelter
- WASH & SWM
- Mobility
- Safety and Security
- Recreation
- Economic Ability
- Economic Opportunities
- Sustainability
- Environment
- Green Building
- Energy Consumption
- City Resilience
- Citizen Perception Survey

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Jaipur
Category: Million+

Rank 23

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Jodhpur
Category: Million+

Rank 21

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Kalyan Dombivali

Category: Million+

Variation across Pillars, Categories and Cities

Kanpur
Category: Million+
Rank 28
Kota

Category: Million+

Rank 44

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 26

Lucknow

Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Ludhiana

Category: Million+

Variation across Pillars, Categories and Cities
Variation across Pillars, Categories and Cities
**Meerut**

**Category:** Million+

**Rank 36**

**City Scores and Best Score Comparison**

**Variation across Pillars, Categories and Cities**

*Image Source: https://en.wikipedia.org/wiki/Meerut#/media/File:NAUCHANDI_GATE_MEERUT.jpg*
Nagpur

Category: Million+

Rank 25

Variation across Pillars, Categories and Cities
**Nashik**

**Category:** Million+

**Rank 38**

**Ease of Living Indicators**

- Quality of Life
- Education
- Health
- Housing and Shelter
- WASH & SWM
- Mobility
- Safety and Security
- Recreation
- Economic Ability
- Level of Economic Development
- Economic Opportunities
- Sustainability
- Environment
- Green Building
- Energy Consumption
- City Resilience
- Citizen Perception Survey

**City Scores and Best Score Comparison**

**Variation Across Cities**
City Scores and Best Score Comparison

Variation Across Cities

Rank

06

Navi Mumbai

Category: Million+
Rank 33
Patna
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Pimpri Chinchwad
Category: Million+

Rank 16

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Prayagraj

Category: Million+

Rank

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Pune

Category: Million+

Rank 02

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Raipur

Category: Million+

Rank 18

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rajkot
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 42
Ranchi
Category: Million+

Variation across Pillars, Categories and Cities
Rank 17

Solapur

Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Srinagar
Category: Million+

Rank 49

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Surat

Rank 05

Category: Million+

Variation across Pillars, Categories and Cities
Thane

Category: Million+

Rank

Variation across Pillars, Categories and Cities
Rank 08
Vadodara
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Varanasi
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 39

Vasai Virar

Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities

Image Source: https://oc.wikipedia.org/wiki/Fich%C3%A9r:JivDani,Virar_-_panoramio_(35).jpg
Vijayawada
Category: Million+

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Visakhapatnam

Category: Million+

Rank 15

Visibility across Pillars, Categories and Cities
City Profiles

Less than Million

(cities with less than a million population)
Agartala

Category: Less Than Million

Rank 11

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 57
Aizawl
Category: Less Than Million
City Scores and Best Score Comparison

 Variation across Pillars, Categories and Cities
Rank 58
Aligarh
Category: Less Than Million
Amravati

Category: Less Than Million

Rank 45

Variation across Pillars, Categories and Cities

City Scores and Best Score Comparison
Belagavi

Category: Less Than Million

Rank 48

Variation across Pillars, Categories and Cities

City Scores and Best Score Comparison
Bhagalpur

Rank: 30

Category: Less Than Million

Ease of Living Indicators

- Quality of Life
- Education
- Health
- Housing and Shelter
- WASH & SWM
- Mobility
- Safety and Security
- Recreation
- Economic Ability
- Level of Economic Development
- Economic Opportunities
- Sustainability
- Environment
- Green Building
- Energy Consumption
- City Resilience

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 28

Bihar Sharif

Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Bilaspur

Category: Less Than Million

Rank

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Dahod

Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities

Rank 09

Davanagere

Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Dehradun

Category: Less Than Million

Rank 29

Variation across Pillars, Categories and Cities
Dharamshala

Category: Less Than Million

Rank
37

Ease of Living Index
Quality of Life
Education
Health
Housing and Shelter
WASH & SWM
Mobility
Safety and Security
Recreation
Economic Ability
Level of Economic Dev.
Economic Opportunities
Sustainability
Environment
Green Building
Energy Consumption
City Resilience
Citizen Perception Survey

Variation across Pillars, Categories and Cities

Legend
City Score
Best Score
Dindigul

Category: Less Than Million

Rank 56

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Diu

Category: Less Than Million

City Scores and Best Score Comparison

Rank 14

Variation across Pillars, Categories and Cities
Rank 24
Erode
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities

Gandhinagar

Category: Less Than Million

Rank 07
Gangtok

Category: Less Than Million

Rank 41

Variation across Pillars, Categories and Cities
Rank 08
Gurugram
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 50
Imphal

Category: Less Than Million

Variation across Pillars, Categories and Cities
Itanagar

Category: Less Than Million

Rank 53

Variation across Pillars, Categories and Cities
Jalandhar
Category: Less Than Million

Variation across Pillars, Categories and Cities
Jammu

Category: Less Than Million

Rank 27

Variation across Pillars, Categories and Cities
Kakinada

Category: Less Than Million

Variation across Pillars, Categories and Cities
Karimnagar

Category: Less Than Million

Rank 22

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 15
Karnal
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
### Kavaratti

**Category:** Less Than Million

**Rank:** 36

#### City Scores and Best Score Comparison

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<td>Safety and Security</td>
<td>50</td>
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<td>Recreation</td>
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<tr>
<td>Level of Economic Development</td>
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<td>Sustainability</td>
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<td>Environment</td>
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<td>Citizen Perception Survey</td>
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</table>

#### Variation across Pillars, Categories and Cities

[Graph showing variation across indicators for different cities including Kavaratti.]
Rank 39

Kochi

Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Kohima

Category: Less Than Million

Variation across Pillars, Categories and Cities
Rank 20
Mangalore
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Moradabad

Category: Less Than Million Population

Rank 38

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Muzaffarpur

Category: Less Than Million

Rank 62

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 60

Namchi

Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
**Ease of Living Index**

**Category:** Less Than Million

**Panaji**

**Rank:** 16

**Variation across Pillars, Categories and Cities**
**Ease of Living Indicators**

- **Rank 55**
- **Pasighat**
- **Category:** Less Than Million

**City Scores and Best Score Comparison**

**Variation across Pillars, Categories and Cities**
Rank
42
Port Blair
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank
13
Puducherry
Category: Less Than Million

Variation across Pillars, Categories and Cities
Rank
40
Rae Bareli
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities

Rampur

Rank 59

Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rourkela

Rank 54

Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Variation across Pillars, Categories and Cities

City Scores and Best Score Comparison

Rank

25

Sagar

Category: Less Than Million
Saharanpur

Category: Less Than Million

Rank 44

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 05
Salem
Category: Less Than Million

Variation across Pillars, Categories and Cities
Satna

Category: Less Than Million

Rank
61

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Shillong

Category: Less Than Million

Rank 35

Variation across Pillars, Categories and Cities
Shimla

Rank: 01

Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Shivamogga

Category: Less Than Million

Rank 26

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities

Silvassa

Category: Less Than Million

Variation across Pillars, Categories and Cities
Rank 31

**Thanjavur**

**Category:** Less Than Million

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**City Scores and Best Score Comparison**

- **Ease of Living Index**
- **Quality of Life**
- **Education**
- **Health**
- **Housing and Shelter**
- **WASH & SWM**
- **Mobility**
- **Safety and Security**
- **Recreation**
- **Economic Ability**
- **Level of Economic Development**
- **Economic Opportunities**
- **Sustainability**
- **Environment**
- **Green Building**
- **Energy Consumption**
- **City Resilience**
- **Citizen Perception Survey**

**Variation across Pillars, Categories and Cities**
Tiruchirappalli
Category: Less Than Million

Variation across Pillars, Categories and Cities
Rank
17
Tirunelveli
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Tirupati

Category: Less Than Million

Rank 46

Variation across Pillars, Categories and Cities
Tiruppur

Category: Less Than Million

Rank 18

Variation across Pillars, Categories and Cities
Rank 21
Thiruvananthapuram
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 43
Thoothukudi
Category: Less Than Million

Variation across Pillars, Categories and Cities

Image Source: https://en.wikipedia.org/wiki/File:Tuticorin_Thermal_Power_Station_at_Night_1_crop.jpg
Tumakuru

Category: Less Than Million

Rank 23

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
**Ease of Living Indicators**

- **Ease of Living Index**
- **Quality of Life**
- **Education**
- **Health**
- **Housing and Shelter**
- **WASH & SWM**
- **Mobility**
- **Safety and Security**
- **Recreation**
- **Economic Ability**
- **Level of Economic Development**
- **Economic Opportunities**
- **Sustainability**
- **Environment**
- **Green Building**
- **Energy Consumption**
- **City Resilience**
- **Citizen Perceptions Survey**

**Rank 47**

**Udaipur**

**Category:** Less Than Million

**City Scores and Best Score Comparison**

- **Score**

**Variation across Pillars, Categories and Cities**
City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
Rank 06

Vellore

Category: Less Than Million

Variation across Pillars, Categories and Cities
Rank 19
Warangal
Category: Less Than Million

City Scores and Best Score Comparison

Variation across Pillars, Categories and Cities
References


Appendix

A1. Process of Index Creation

The Ease of Living Index 2020 is an effort to improve upon the previous edition of the index. The framework for the index was developed by the Ministry of Housing and Urban Affairs in partnership with Institute for Competitiveness after consultation with key stakeholders and urban experts. The methodology was released in February 2019. A major deviation from the first edition of the index was the segregation of the Ease of Living Index and the Municipal Performance Index. The latter has been introduced to assess the performance of local bodies and their service efficiency while the former assesses the outcome of these services. In addition, the Ease of Living index is also supported by the citizen perception surveys of these outcomes.

After the release of the methodology, city data officers were engaged for each city and provided training on the data collection process. Simultaneously, a portal was created by the National Informatics Centre to facilitate the data collection from cities. Karvy Data Management Services was engaged to coordinate the data collection efforts and conduct the citizen perception survey for the Ease of Living Index. On their part, Karvy had established a total of six specialised cells to handle distinct functions associated with the successful execution of the assignment.

Once the data was collected from all cities, Smart City Consultants and Smart City Fellows were engaged to review the data along with Karvy. The former involved a team from PricewaterhouseCoopers (PwC) while the latter were a cohort of fellows from the India Smart Cities Fellowship Programme. These teams undertook several rounds of quality checks on the data that was obtained. The team from PwC also assisted in the pilot of the index across 20 cities and provided support to the NIC team for bug fixes and user interface along with User Acceptance Tests.

Finally, after the data was received and cleaned, Institute for Competitiveness undertook the final round of data checks and Karvy assisted in contacting the cities for which data discrepancies were observed. Upon completion of these checks, the final data analysis and report writing were done by Institute for Competitiveness and the rankings were obtained.
A2. Index Framework

The framework for the Ease of Living index was published in February 2019. But there were some improvements made to the framework during the data collection process to make the assessment of cities more robust. The final framework has been presented in Figure 1 provided in the Framework and Methodology section of the report.

The index is composed of four pillars. Three of the pillars are based on secondary data obtained from cities, which include Quality of Life, Economic Ability, and Sustainability. These three pillars account for 70 percent of the index. The remaining 30 percent is based on the citizen perception survey, which was based on primary data from citizens residing in the cities that were a part of the index.

The first three pillars of the Ease of Living index were further bifurcated into 13 categories. The categories are further based on 49 indicators. The detailed framework is as follows:

<table>
<thead>
<tr>
<th>Pillars</th>
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<th>Pillar Weight</th>
<th>Category Weight</th>
<th>Indicator No</th>
<th>Indicator</th>
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<td>Quality of Life</td>
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<td>1</td>
<td>Household Expenditure on Education</td>
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<td>2</td>
<td>Literacy Rate</td>
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<td>3</td>
<td>Pupil-Teacher Ratio at the Primary Level</td>
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<td>4</td>
<td>Pupil-Teacher Ratio at the Upper Primary Level</td>
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<td>Dropout Rate at Secondary Level</td>
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<td>6</td>
<td>Percentage of Schools with access to Digital Education</td>
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<td></td>
<td>7</td>
<td>Percentage of Professionally Trained Teachers</td>
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<td>National Achievement Survey Score</td>
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<td>Household Expenditure on Health</td>
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<td>Accredited Public Health Facilities</td>
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<td>Total Tree Cover</td>
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<td>Does the City have a Disaster Management Plan in place?</td>
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<td>Are Early Warning Systems (EWS) in place for Hazards?</td>
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<td>Number of Deaths and Directly affected Persons attributed to Disasters</td>
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### A3. Cities Incorporated in the Index

The index aimed to cover a total of 114 cities across India. However, the cities from West Bengal could not be incorporated due to data challenges. Therefore, the following cities have been covered in the Ease of Living Index:

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