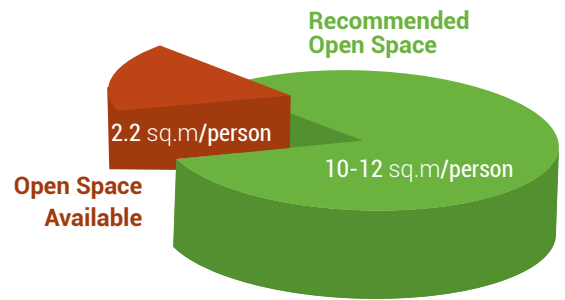


### DOES BENGALURU HAVE ADEQUATE NUMBER OF PARKS AND PLAYGROUNDS?

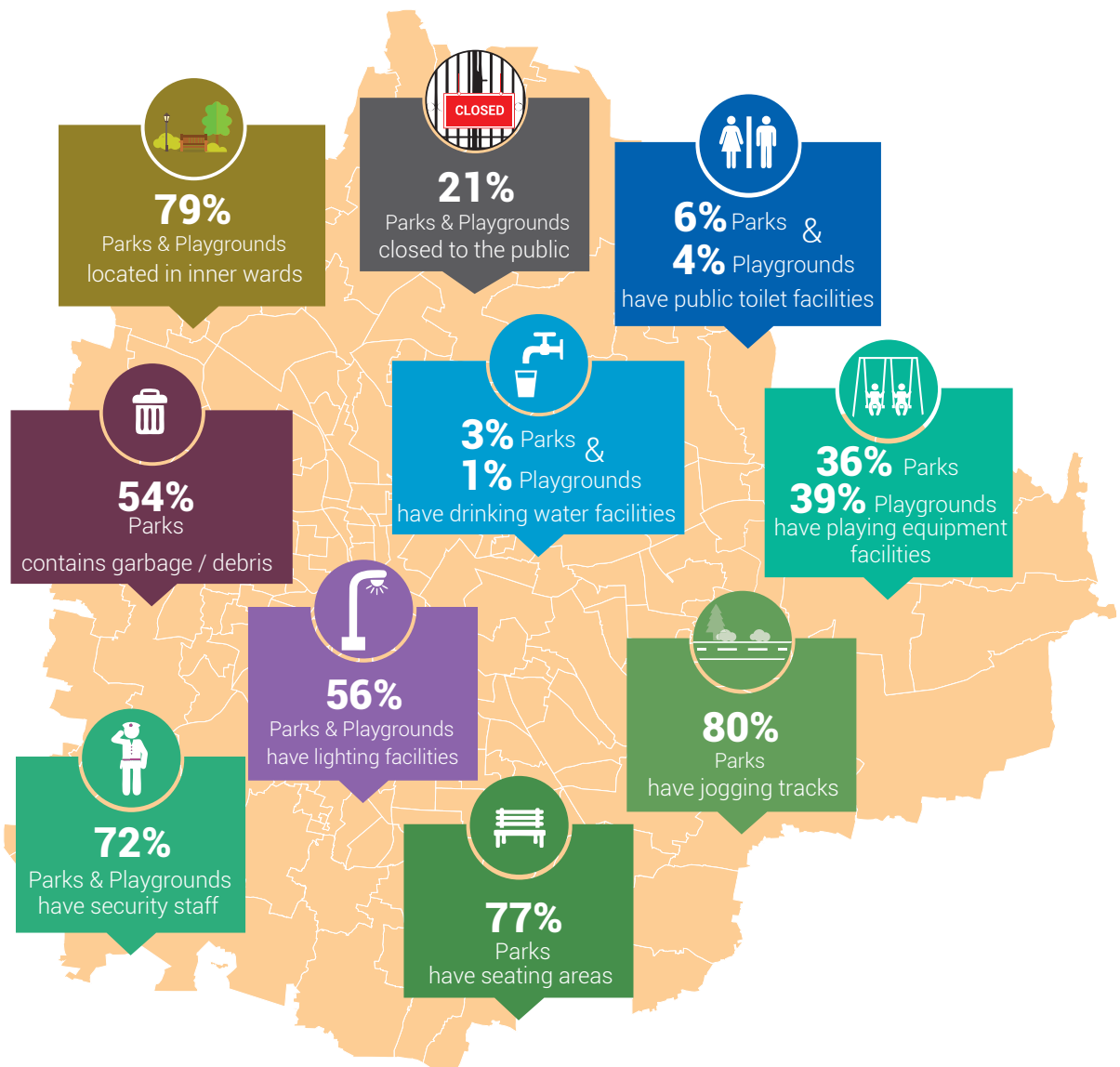
With a population of 12 million (unofficial estimate, 8.4 million as per 2011 census) and an area of 709 sq.km, the city of Bengaluru has only 19.31 sq.km dedicated towards Open Spaces like Parks and Playgrounds. This translates to **2.2 sq.m of open space per person**, which is significantly short of the recommended 10-12 sq.m by the URDPFI (Urban and Regional Development Plans Formulation and Implementation\*) guidelines set by the Ministry of Urban Development (MoUD), India.

Open spaces like parks and playgrounds are a critical necessity in urban areas. Besides their environmental significance, they provide much needed recreational spaces for everyone in the city.



\*Note : This guidelines also stipulate that facilities such as parking, public toilet, fencing, lawns etc. should be available in parks and playgrounds.

### HOW ACCESSIBLE ARE PARKS AND PLAYGROUNDS IN BENGALURU?



Supported by

## WHAT IS THE QUALITY OF PARKS AND PLAYGROUNDS IN BENGALURU?

Improving quality of parks and playgrounds is a crucial step towards ensuring that parks and playgrounds stay green and sustainable.



## HOW CAN BBMP IMPROVE THE QUALITY OF PARKS & PLAYGROUNDS?



- ▶ Provide Drinking Water Facilities
- ▶ Public Toilet Access



- ▶ Removal of garbage/debris
- ▶ Installation of garbage bins to prevent littering



- ▶ Providing adequate lighting for safety and use in the evenings

## ABOUT THE SURVEY



The list of parks and playgrounds was obtained from the BBMP. All the locations were geocoded\* on the map and duplicates were eliminated. A total of 1,115 parks, 192 playgrounds were surveyed. The survey consisted of 10 questions for Playgrounds and 10 questions for Parks. It was undertaken by a survey team, who were trained and provided a special mobile app developed to capture the survey data. Data from each survey was validated with help of geo-tagged pictures and surveys were repeated in case of discrepancies. The entire survey was undertaken over a two month period and analysis and reporting concluded in January 2017.

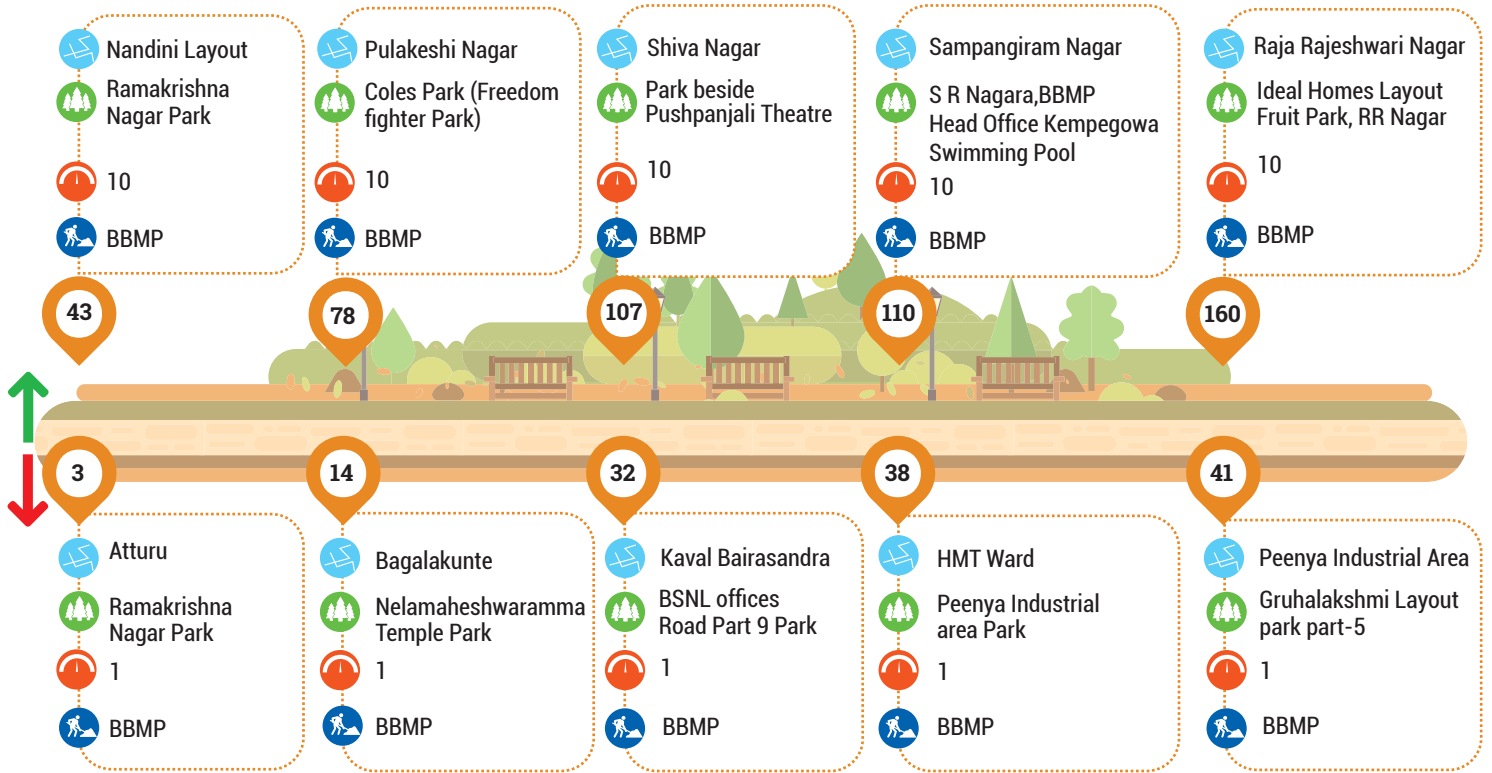
\* Geocoding is the process of converting addresses into geographic coordinates (latitude and longitude), which can be used to place markers on a map

Supported by

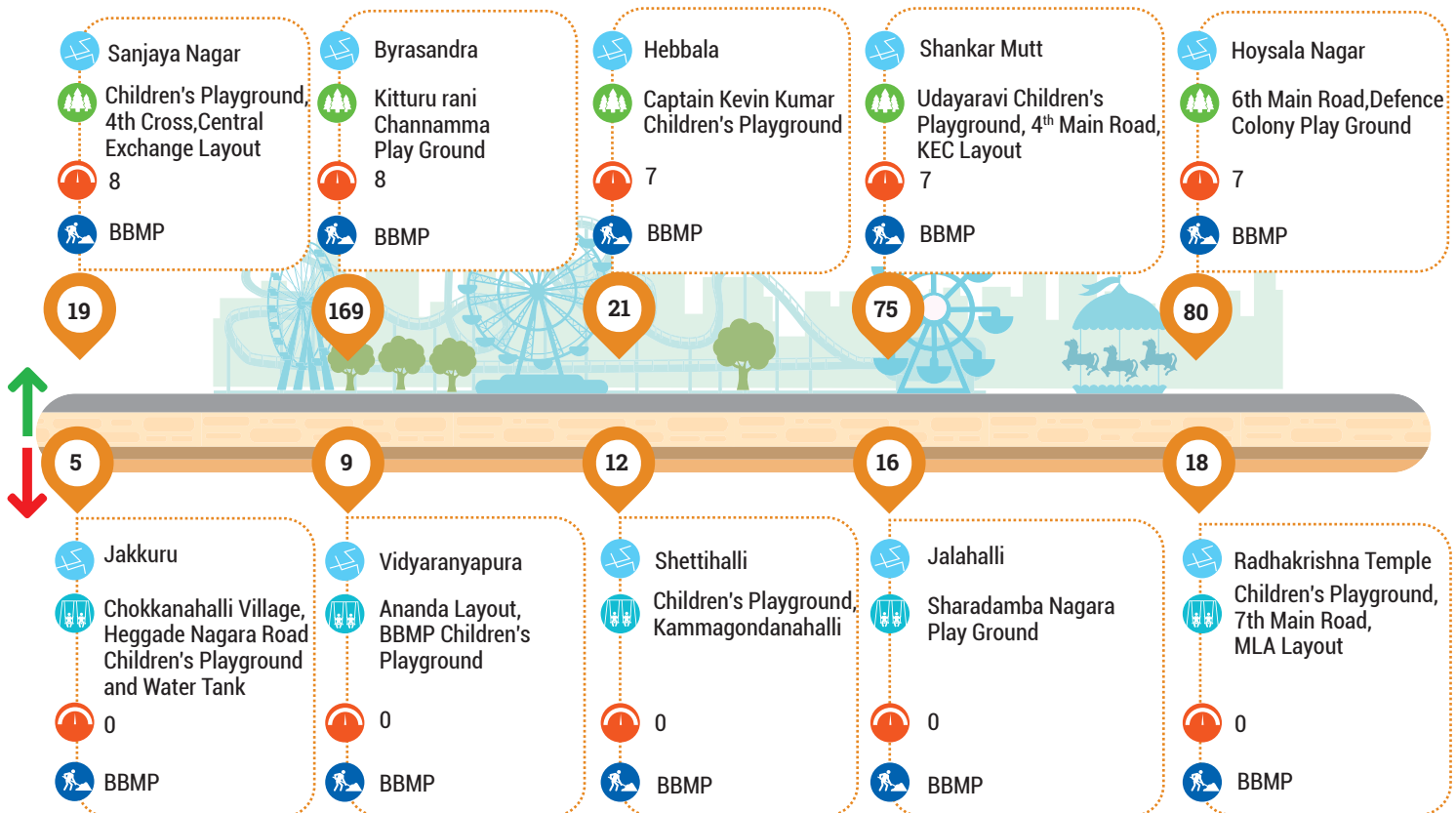


# TOP & BOTTOM FIVE PARKS

Ward No    Ward Name    Park Name    Playground Name    Score    Maintained by



# TOP & BOTTOM FIVE PLAYGROUNDS

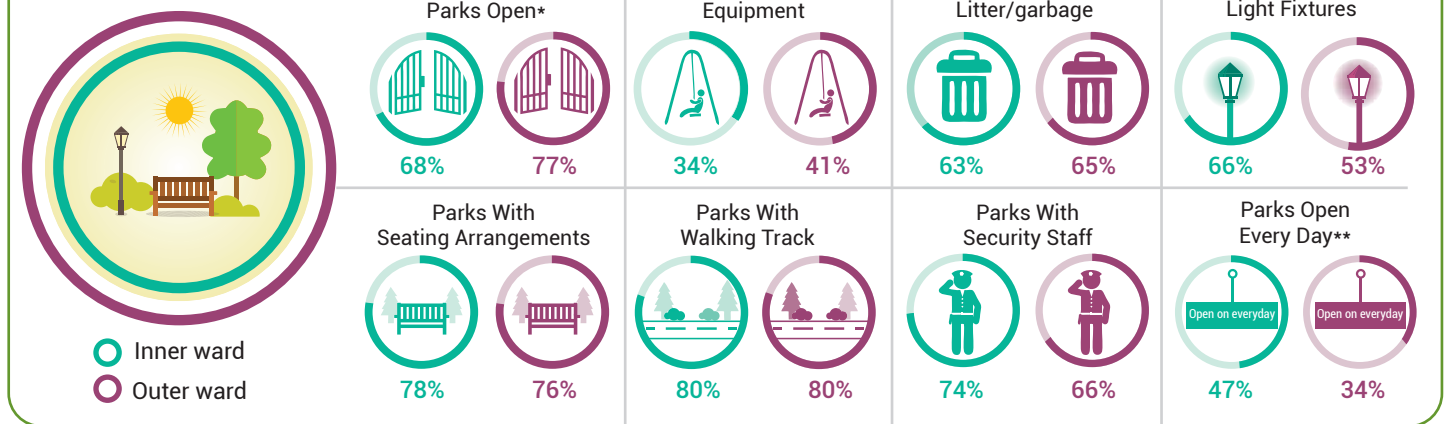


Supported by

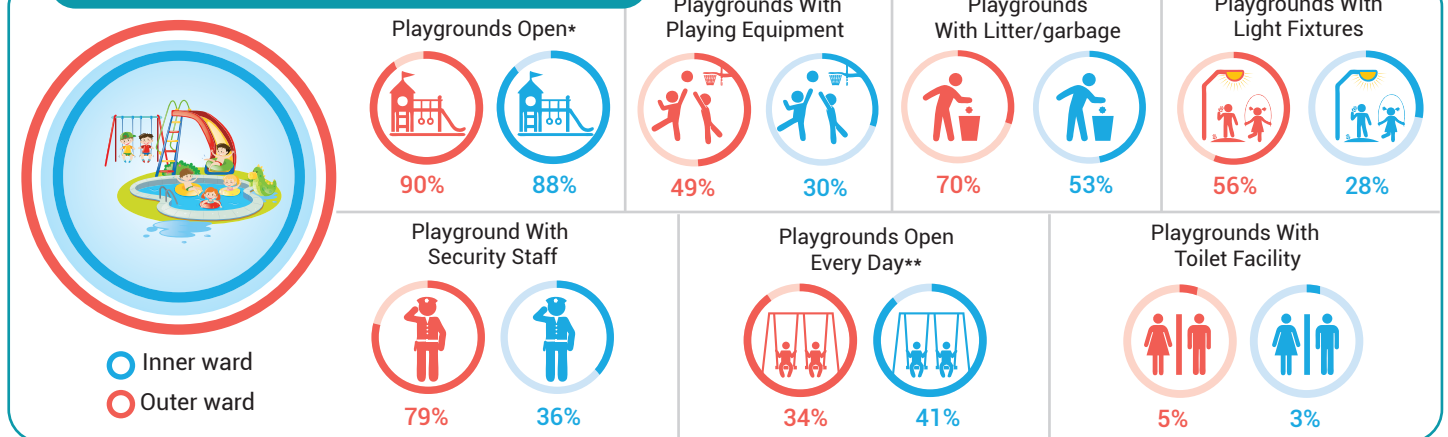


# INNER WARD VS OUTER WARD COMPARISON ON KEY METRICS : AVAILABILITY, UPKEEP AND OTHER MAINTENANCE ASPECTS.

## Average Score of Park Facilities



## Average Score of Playground Facilities



\* Generally open | \*\* Daily open for more than 8 hrs a day

## SURVEY QUESTIONS

The parks and playgrounds survey had the following questions :

Are there timings put up on signboards?

Are there walking tracks, seating arrangement and playing facilities?

Are there security and light fixture facilities?

Are there clean public toilets and drinking water facilities?

## BBMP BUDGET ALLOCATION: FOR PARKS AND PLAYGROUNDS

2016-17



Total budget for Parks and Playgrounds allocated in budget 2016-17 (Rs. Crores)

2017-18



Total budget for Parks and Playgrounds allocated in budget 2017-18 (Rs. Crores)

Source: Bruhat Bengaluru Mahanagara Palike (BBMP) Budgets 2016-17 & 2017-18

Janaagraha Centre For Citizenship & Democracy  
4th Floor, UNI Building, Thimmaiah Road,  
Vasantha Nagara, Bengaluru – 560052  
For any inquiries or details, please contact:  
080 40790400, sapna@janaagraha.org

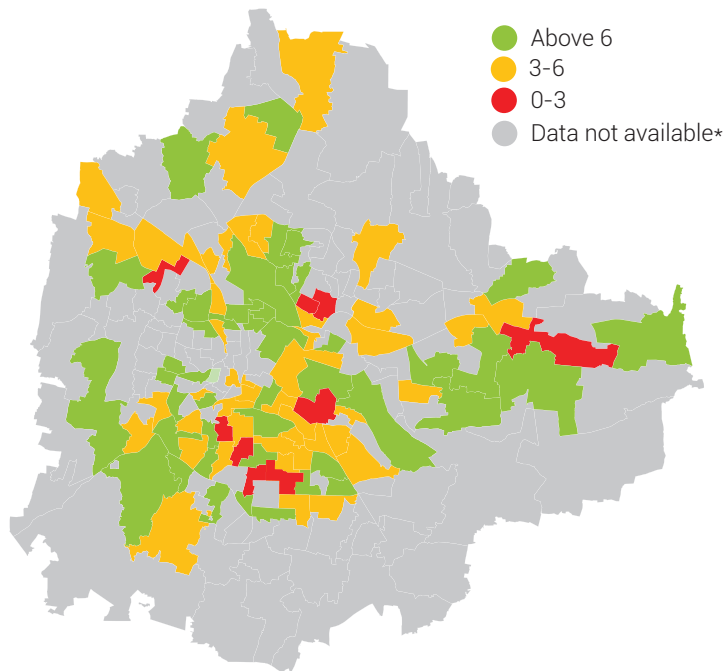
Supported by

The Asia Foundation

ichangemycity

### Are there enough Public Toilets in Bengaluru?

#### ◆ Ward Scores of Public Toilets



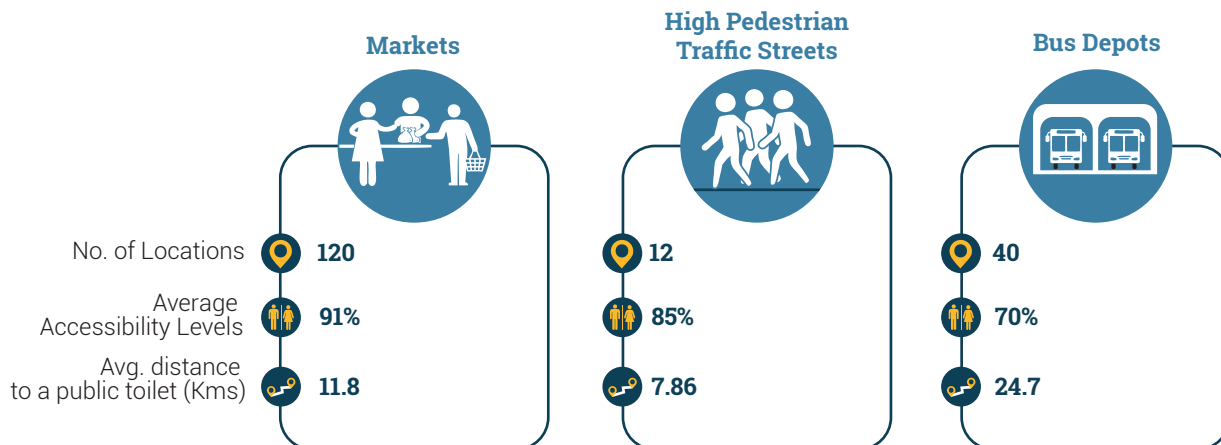
\* As per the list of public toilets available on BBMP website

Bengaluru has a population of 8.4 million\* (current unofficial estimates are about 12 million) and is serviced by 2838 public toilet seats or 473 public toilet complexes across the city. The National Guidelines set by the Swachh Bharath Mission (SBM) for Public Toilets that cater to a floating population of 500,000 in cities, prescribes 1 toilet seat per 100 men and 2 per 100 women. Bengaluru falls short by almost 1100 Public Toilet complexes.

For a city to have a good Quality of Life, public toilets need to specifically cater to the requirements of both residents and the floating population in places such as markets, bus stations, tourist places and other public areas with high pedestrian traffic.

The IChangeMyCity survey in Bengaluru found that in wards with high pedestrian traffic streets and markets, BBMP has done an excellent job in ensuring that toilets are easily available; however in nearly 10 wards with 11 major bus depots, there are no public toilets at all.

\* As per 2011 census



#### ◆ Distribution Of Public Toilets

At a ward level, the inner wards again just like any other public amenities, have a majority of public toilet facilities with, 85% of the total available infrastructure. Similarly, at a city level, we find that public toilets are both inadequate and inaccessible to the average citizen.

\* Assumption 1 toilet complex contains 3 male and 3 female toilet seats.



Supported by

## ◆ Swachh Bharath Mission (SBM) guidelines indication



1 TOILET SEAT PER  
100 MEN

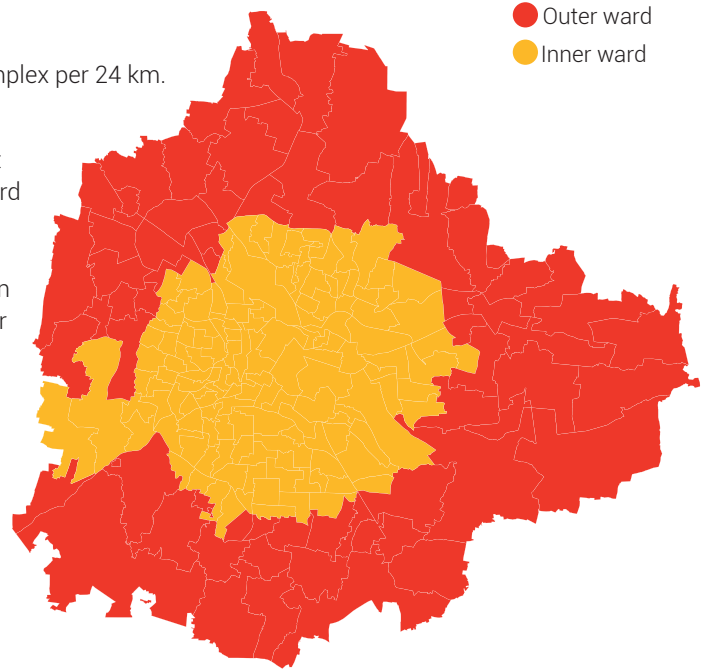


2 TOILET SEATS PER  
100 WOMEN

↓ With a floating population of 5 lakh, Bengaluru falls short of almost 1100 toilet complexes

### What is the accessibility of Public Toilets in Bengaluru?

- SBM guidelines indicate that Bengaluru requires about 1 toilet complex per 7 km street length.
- However, at a city level, currently there is only 1 toilet complex per 24 km.
- 43 inner wards meet or exceed this benchmark - the best performing ward is Sudhama Nagar ward having 28 toilet complexes, followed by Dharamaraya Swamy Temple ward with 22 toilet complexes.
- Almost 85% of the existing toilet complexes are located in inner wards, leaving outer wards with inadequate number of complexes.
- Surprisingly, in spite of this higher concentration in inner wards, of the 64 wards that do not have a single public toilet within their limits, 42 wards are inner wards, which are densely populated and account for 61% of the total population.



### Are the Public Toilets clean enough?

In terms of quality, 3 toilet complexes (2 privately maintained and 1 maintained by BBMP) scored 10



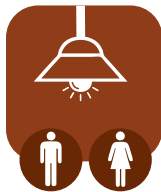
- ✓ Pattabhiram Nagar
- ✓ Bharathi Nagar
- ✓ Attiguppe

#### Usable toilets



76% 70%

#### Adequate lighting



59% 58%

#### Functional flushes



10% 6%

#### Washbasins



63% 42%

#### Clean floors



47% 47%

#### Dustbins

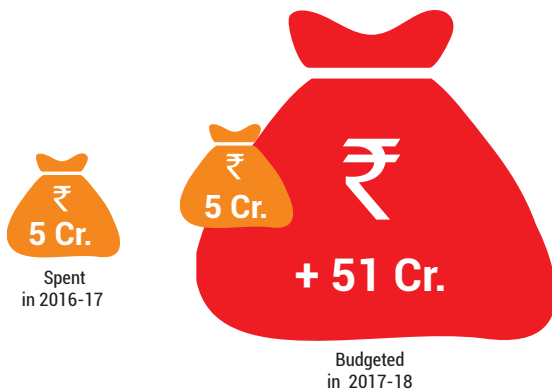


13% 12%

The absence of functional flushes in the toilet complexes will result in unhygienic conditions and is a health hazard. Only 10% of male and 6% of female toilets have functional flushes. This also extends to the absence of dustbins in most toilets

Supported by

## Is there enough money being spent on Public Toilets?



In the last financial year, **BBMP spent over 5 Cr.** on public toilets of which **60% went towards building new toilets and 40% went towards maintaining existing toilets** (60% of this expenditure was in inner wards.)

However, in order to meet SBM guidelines, **BBMP needs to invest an additional 51 Cr.** in construction of new toilets. The good news is that in the 2017-18 budget, **BBMP has planned to build 1000 Public Toilets at 51Cr.**

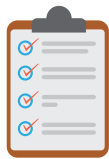
This year for the Construction of New Public Toilets, BBMP had raised Job Codes worth Rs. 3. 83 Crores. 80 Tenders were floated by BBMP for Public Toilets related development works (repair and renovation of public toilets) for Rs. 9.2 Crores.

According to the BBMP Bill Register, Rs. 7. 71 Crores amount was paid to contractors for Public Toilets related development works.

*\* BBMP bill register dated Sept 30th 2017*

## Ways by which the BBMP can improve the Quality and Accessibility of Public Toilets?

### PPP Agreement (Score)    BBMP Maintained (Score)



7.4    6.8

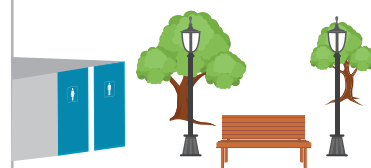


5.9    5.5

148 public toilets are maintained by BBMP, and 76 public toilets are privately maintained. Our survey indicates that overall public toilets maintained through a PPP agreement provide better quality of infrastructure over those maintained by BBMP directly under the SBM guidelines



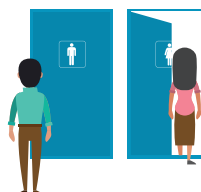
Mandate the 370 petrol stations to make toilets accessible to public (similar to existing National Highway mandate). This will bring down the cost of building new toilets by 5.5 Cr



Build toilets in existing parks and playgrounds where adequate land is available



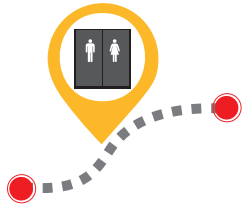
The BBMP could also consider the installation of portable Public Toilets in strategic locations



Additionally, if toilets are opened in all the existing 1,311 open-spaces owned by BBMP, land acquisition cost can be reduced and the accessibility levels will drastically improve to 1 toilet complex per 6 km (inner wards - 1 toilet complex per 3 km and 1 toilet per 12 km)

Supported by

## Fun Facts



Sudhama Nagar ward has **28 toilet complexes** :  
One toilet complex per km



**2 Female toilets that scored a 10 :**  
One in Pattabhiram Nagar (Ward No:168) and  
Another in Subramanya Nagar (Ward No: 66)



**3 Male toilets that scored a 10 :**  
One each in Cottonpete (Ward No: 120),  
Bharati Nagar(Ward No: 91)  
and Attiguppe (Ward No:132)



## About the survey

The list of Public Toilets was obtained from the BBMP. All the locations were geocoded on the map and duplicates were eliminated. A total of 473 toilet complexes were physically surveyed. The survey consisted of 10 questions for male and female public toilets. Data from each survey was validated with the help of geo-tagged pictures and surveys were repeated in case of discrepancies. The entire survey was undertaken over a 2 month period and concluded in January 2017. The Public Toilets were scored objectively on a scale of 10.

## List of survey questions

- ▶ Is the toilet open?
- ▶ Are there separate Male and Female toilets?
- ▶ Are the pots unclogged (are they clean)?
- ▶ Do all cubicles have functional latches?
- ▶ Is there a nameboard that reads Public Toilet?
- ▶ Are light fixtures available inside the toilet?
- ▶ Is there running water in the washbasin taps?
- ▶ Is the toilet floor clean?
- ▶ Are light fixtures available at the entrance?
- ▶ Are all flushes in the toilets functional?

Supported by



Janaagraha Centre For Citizenship & Democracy  
4th Floor, UNI Building, Thimmaiah Road,  
Vasanthanagara, Bengaluru – 560052  
For any inquiries or details, please contact:  
080 40790400, sapna@janaagraha.org

**ichangemycity**