

REPORT ON MONITORING OF AMBIENT NOISE POLLUTION DURING GANESH FESTIVAL, 2016



MAHARASHTRA POLLUTION CONTROL BOARD
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Website: www.mpcb.gov.in

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Foreword

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Abbreviations

| | |
|-----------|--|
| CPCB | Central Pollution Control Board |
| dB | Decibel |
| dB(A) | Decibels with "A" weighting |
| EPA | Environmental Protection Act, 1986 |
| Hz | Hertz |
| MPCB | Maharashtra Pollution Control Board |
| KHz | Kilo Hertz |
| L_{Aeq} | Equivalent continuous A-weighted sound pressure level (dB) |
| L_{max} | Maximum sound pressure level (dB) |
| L_{min} | Minimum sound pressure level (dB) |
| SPL | Sound Pressure Level |

Introduction

Ganesh Chaturthi is a ten-day Hindu festival celebrated to honour the elephant-headed God Ganesha's birthday. He is the younger son of Lord Shiva and Goddess Parvati. Ganesha is known by 108 different names and is the Lord of arts and sciences and the deva of wisdom. He is honoured at the start of rituals and ceremonies as he's considered the God of beginnings. He's widely and dearly referred to as Ganapati or Vinayaka.

There are two different versions about Ganesha's birth. One has it that Goddess Parvati created Ganesha out of dirt off her body while having a bath and set him to guard her door while she finishes her bath. Shiva who has gone out, returned at that time, but as Ganesha didn't know of him, stopped him from entering. An angry Shiva severed the head of Ganesha after a combat between the two. Parvati was enraged and Shiva promised Ganesha will live again. The devas who went in search of a head facing north of a dead person could manage only the head of an elephant. Shiva fixed the elephant's head on the child and brought him back to life. The other legend has it that Ganesha was created by Shiva and Parvati on request of the Devas, to be a vighnakartaa (obstacle-creator) in the path of rakshasas (demonic beings), and a vighnahartaa (obstacle-averter) to help the Devas. This year, September 5th marks the beginning of this festival which is also called as Vinayaka Chaturthi.

Maharashtra Pollution Control Board have been carrying out study of the ambient noise levels in the state of Maharashtra during the period of Ganesh Festival for more than 9 years as a continuous process. Noise monitoring was carried out at 132 locations from 26 Municipal Corporation of Maharashtra for 5 days period during Ganesh Festival i.e. on 5th, 6th, 9th, 10th & 15th September 2016 from 6 PM to 12 AM for each location which comprise of residential, commercial and silence zone.

A Review of Noise Descriptors

Sound is usually made up of a wide range of different frequencies. The spread of sound energy across the audible frequency "spectrum" (about 20Hz – 20kHz) is one factor that helps to make it identifiable to the human ear. The human ear is a very sensitive system with an extensive dynamic range. To accommodate this very large range, sound levels are measured using the **decibel (dB) scale**.

A sound level meter theoretically has a flat response, in other words it responds exactly the same at different frequencies. Unlike a sound level meter, the human ear responds differently at different frequencies, so a weighting, or filter, can be used so that the meter responds more like the human ear. The most commonly used weighting is referred to as the '**A**' weighting and readings are usually measured in dBA. The "**sound pressure level**" (SPL) is twenty times the logarithm to the base 10 of the ratio of the effective pressure (p) of a sound to the reference pressure (Pr) of 20 µPa. Thus the sound pressure level in dB = 20 log₁₀ P/Pr.

In most cases, the sound and noise we hear are not steady. Apart from variation in tones, the magnitude or the sound pressure level of a sound or noise changes with time. The equivalent continuous noise level (L_{eq}) is the sound pressure level of a steady sound that has, over a given period, the same energy as a fluctuating sound in question.

The sound level limits specified by CPCB, represent the general limitation on noise produced by noise sources. Some noises, however, are annoying no matter where or in what kind of environment they exist. High level impulsive noises represent a special category and, consequently, are restricted by an absolute limitation.

The Central Pollution Control Board (CPCB) constituted a National Committee of Experts on Noise Pollution Control. The Committee recommended noise standards for ambient air and for automobiles, domestic appliances and construction equipment, which were later notified under The Environment (Protection) Act, 1986 as given below:

Table 2.1: Standards of Noise Levels under EPA (1986): Noise Pollution (Regulation & Control) Rules, 2000

| Area Code | Category of Area | Limits in dB(A) L_{eq} | |
|-----------|------------------|--------------------------|------------|
| | | Day time | Night time |
| A | Industrial area | 75 | 70 |
| B | Commercial area | 65 | 55 |
| C | Residential Area | 55 | 45 |
| D | Silence Zone | 50 | 40 |

Note:

1. Day time is reckoned from 6 A.M. To 10 P.M.
2. Night time is reckoned in from 10 P.M. and 6 A.M.
3. Silence zone is referred as areas within 100 meters around premises such as hospitals, educational institutions and courts. The Silence zones are to be declared by the Competent Authority.
4. Use of vehicular horns, loudspeakers and bursting of crackers shall be banned in these zones.
5. Mixed categories of areas should be declared as one of the four above mentioned categories by the Competent Authority and the corresponding standards shall apply.

State GR / Notification: Implementation Authority for Noise Rules in Maharashtra is enclosed at **Annexure - III**

Methodology of the project

The ambient noise monitoring was carried out during the period of Ganesh Festivals for 132 locations which is covered under 26 Municipal Corporation all over Maharashtra. The monitoring was carried out for 5 days considering the noise that generate during the festival. 6 hours noise monitoring was carried out from 6 PM to 12 AM on 5th, 6th, 9th, 10th & 15th September 2016. The noise monitoring was carried out using calibrated Sound Level Meters (Type II) kept at the fast response mode keeping in view the quickly changing nature of noise levels, and using 'A' filter.

The details of number noise monitoring locations in different Municipal Corporation all over Maharashtra as provided in **Table 3.1** below:

Table 3.1: Noise Monitoring Locations in Maharashtra during Ganesh Festival: 2016.

| Sr. | Municipal Corporation | Number of locations |
|-----|-----------------------|---------------------|
| 1. | Mumbai | 25 |
| 2. | Navi Mumbai | 05 |
| 3. | Thane | 09 |
| 4. | Pune | 20 |
| 5. | Nashik | 05 |

| Sr. | Municipal Corporation | Number of locations |
|------------------------------|-----------------------|---------------------|
| 6. | Aurangabad | 05 |
| 7. | Nagpur | 05 |
| 8. | Kalyan | 03 |
| 9. | Amravati | 03 |
| 10. | Jalgaon | 03 |
| 11. | Kolhapur | 03 |
| 12. | Sangli | 03 |
| 13. | Mira - Bhyander | 03 |
| 14. | Vasai - Virar | 03 |
| 15. | Ulhas nagar | 03 |
| 16. | Bhiwandi - Nizampur | 03 |
| 17. | Chandrapur | 03 |
| 18. | Nanded - Waghala | 03 |
| 19. | Ahmednagar | 03 |
| 20. | Dhule | 03 |
| 21. | Malegaon | 03 |
| 22. | Pimpri - Chinchwad | 03 |
| 23. | Parbhani | 03 |
| 24. | Latur | 03 |
| 25. | Akola | 03 |
| 26. | Solapur | 04 |
| Total No. of stations | | 132 |

The detailed list of locations is given in **Annexure I**.

Results

Hourly Noise Levels on 5th, 6th, 9th, 10th & 15th September 2016 during Ganesh Festival at different locations in Maharashtra is given in **Annexure IV**. The equivalent steady sound level of a noise energy-averaged over time was calculated represented as L_{eq} based on which the impact of noise created during the festival is measured. The formula for calculating L_{eq} is as given below:

$$L_{eq, T} = 10 \log \left(1 / n \sum_{i=1}^n 10^{\frac{L_i}{10}} \right)$$

Where, L_i = levels observed at n equally spaced times during interval T.

In the present study, hourly and day wise L_{eq} has been calculated to compare the results obtained from various locations.

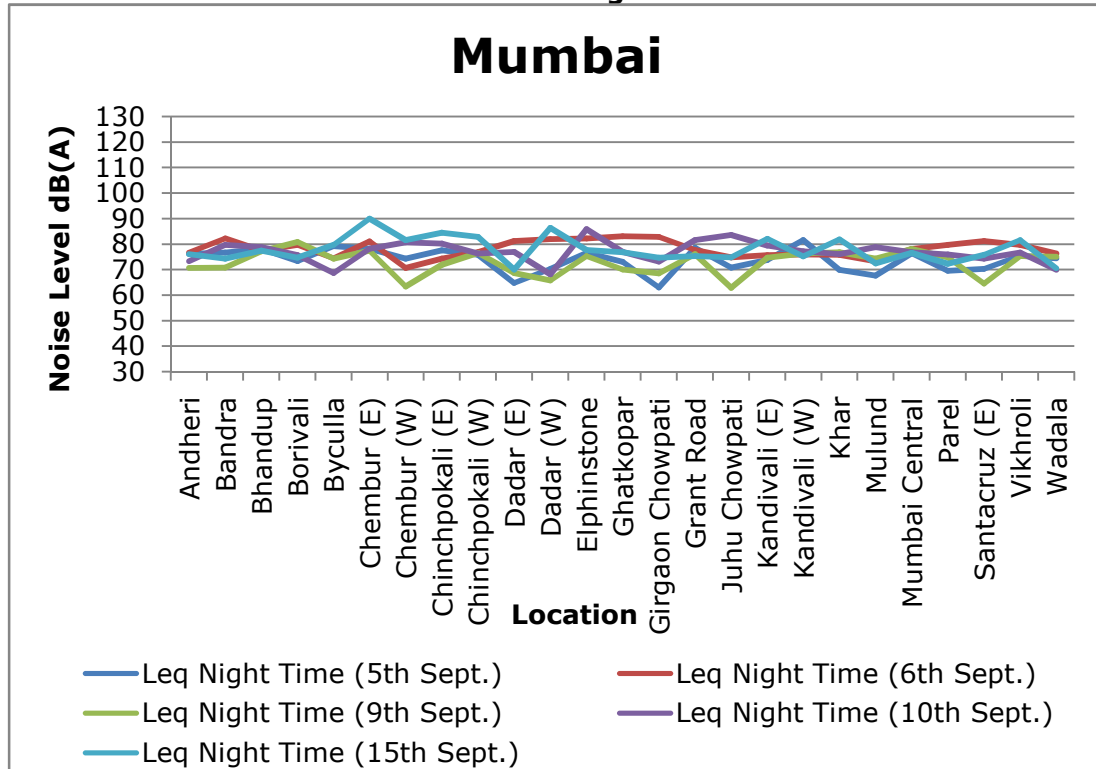
1. Mumbai

In Mumbai a total of 25 location where monitored. The L_{eq} noise level on all five days monitored exceeded the limit. The high highest noise level of 89.9 dB(A) was observed at Chembur east on 15th September which is the last day of visarjan. The increase in noise level was due to the proceedings of visarjan.

Table 6.1: Equivalent Continuous (L_{eq}) dB(A) Noise Levels in Mumbai

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|------------------|---|---|---|--|--|
| Andheri | 76.1 | 76.6 | 70.6 | 73.3 | 76.0 |
| Bandra | 76.6 | 82.2 | 70.8 | 79.7 | 74.2 |
| Bhandup | 78.0 | 77.4 | 77.1 | 78.8 | 77.4 |
| Borivali | 73.3 | 79.6 | 80.8 | 75.6 | 74.6 |
| Byculla | 79.1 | 74.4 | 74.3 | 68.6 | 79.7 |
| Chembur (E) | 78.2 | 81.0 | 77.4 | 78.1 | 89.9 |
| Chembur (W) | 74.2 | 70.6 | 63.3 | 80.6 | 81.5 |
| Chinchpokali (E) | 77.5 | 74.3 | 71.9 | 80.1 | 84.4 |
| Chinchpokali (W) | 75.7 | 76.8 | 76.5 | 76.2 | 82.8 |
| Dadar (E) | 64.7 | 81.2 | 68.6 | 76.9 | 70.0 |
| Dadar (W) | 70.3 | 81.9 | 65.7 | 68.1 | 86.3 |
| Elphinstone | 76.5 | 82.1 | 75.2 | 85.8 | 77.7 |
| Ghatkopar | 73.0 | 83.0 | 70.0 | 76.9 | 76.7 |
| Girgaon Chowpati | 62.9 | 82.8 | 68.5 | 73.1 | 74.6 |
| Grant Road | 78.5 | 77.6 | 76.0 | 81.5 | 75.3 |
| Juhu Chowpati | 70.8 | 74.7 | 62.8 | 83.5 | 74.7 |
| Kandivali (E) | 73.8 | 75.6 | 74.6 | 79.4 | 82.0 |
| Kandivali (W) | 81.5 | 75.9 | 76.3 | 77.1 | 75.1 |
| Khar | 69.9 | 75.7 | 76.7 | 76.0 | 81.8 |
| Mulund | 67.6 | 73.3 | 74.3 | 78.8 | 72.4 |
| Mumbai Central | 76.4 | 78.0 | 78.0 | 76.7 | 76.5 |
| Parel | 69.5 | 79.7 | 74.7 | 75.9 | 72.2 |
| Santacruz (E) | 70.2 | 81.1 | 64.5 | 74.3 | 75.7 |
| Vikhroli | 75.4 | 79.7 | 75.2 | 76.6 | 81.5 |
| Wadala | 74.4 | 76.2 | 75.0 | 69.9 | 70.5 |

Chart 6.1: Noise levels during Ganesh festival in Mumbai



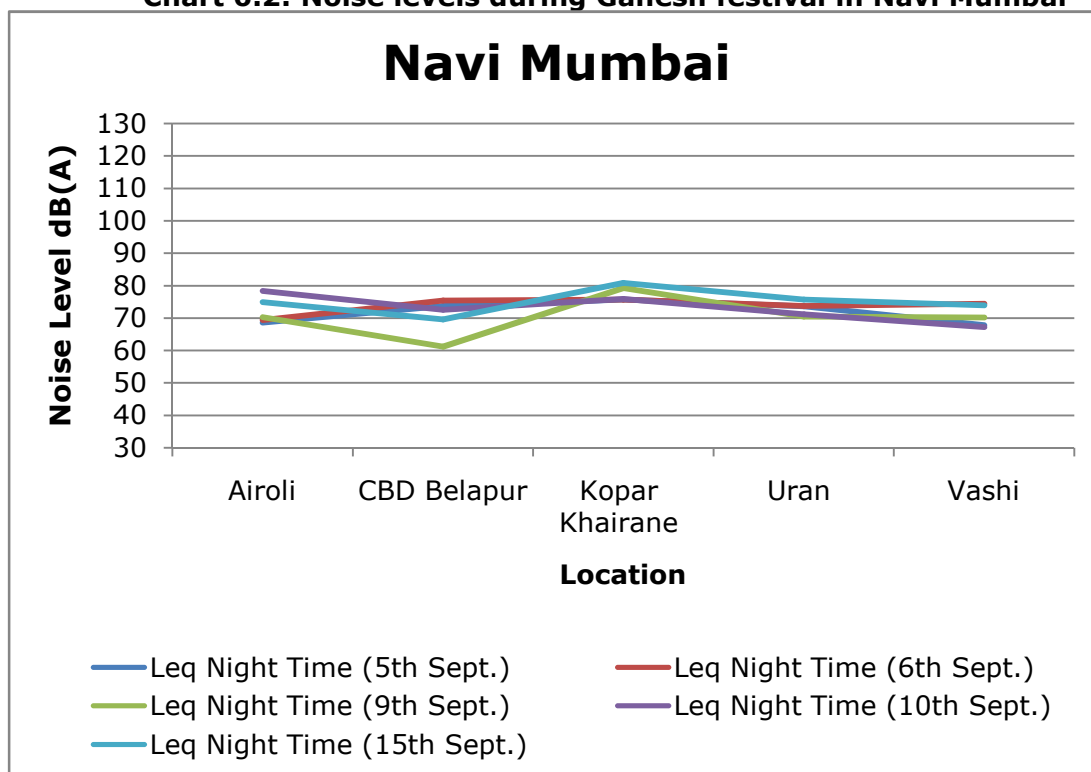
2. Navi Mumbai

Five locations were monitored in Navi Mumbai. The highest noise level was observed at Kopar Khairane - Sector-10, D-Mart Main Road with 80.8 dB(A) on 15th September. The noise level was below 80 dB(A) on other days of noise monitoring.

Table 6.2: Equivalent Continuous (L_{eq}) dB(A) Noise Levels in Navi Mumbai

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|----------------|---|---|---|--|--|
| Airoli | 68.6 | 69.3 | 70.2 | 78.3 | 74.9 |
| CBD Belapur | 73.7 | 75.4 | 61.2 | 72.5 | 69.5 |
| Kopar Khairane | 75.7 | 75.7 | 79.2 | 75.9 | 80.8 |
| Uran | 73.6 | 73.7 | 70.4 | 71.1 | 75.7 |
| Vashi | 67.8 | 74.4 | 70.1 | 67.2 | 73.9 |

Chart 6.2: Noise levels during Ganesh festival in Navi Mumbai



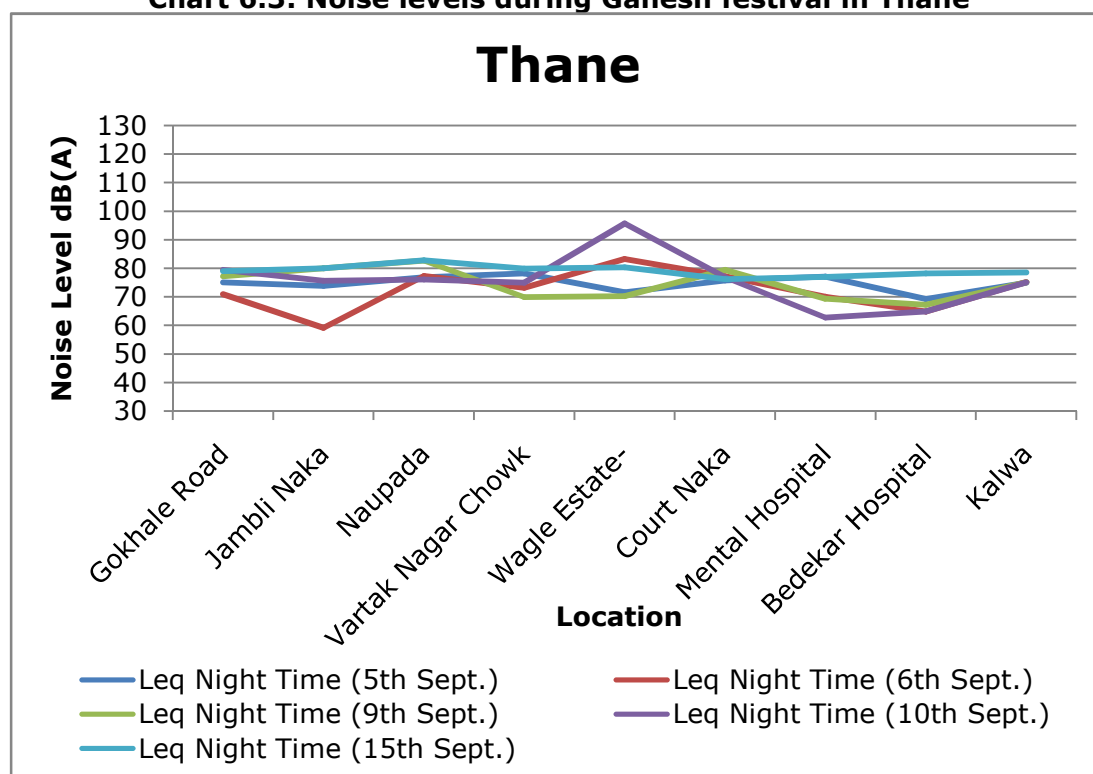
3. Thane

The maximum noise level during night time was observed at Wagle Estate- Raila Devi Lake immersion Point with 95.6 dB(A) on 10th September which was mainly caused by the crowd gathered for visarjan.

Table 6.3: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Thane

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--------------------|---|---|---|--|--|
| Gokhale Road | 75.0 | 70.9 | 77.2 | 79.4 | 78.9 |
| Jambli Naka | 73.8 | 59.1 | 80.0 | 75.6 | 80.0 |
| Naupada | 76.8 | 77.3 | 82.7 | 76.0 | 82.8 |
| Vartak Nagar Chowk | 78.2 | 73.1 | 69.9 | 74.9 | 79.8 |
| Wagle Estate- | 71.5 | 83.2 | 70.2 | 95.6 | 80.3 |
| Court Naka | 75.7 | 77.2 | 79.4 | 76.8 | 76.2 |
| Mental Hospital | 77.0 | 70.0 | 69.3 | 62.7 | 76.9 |
| Bedekar Hospital | 69.2 | 64.8 | 67.2 | 64.8 | 78.2 |
| Kalwa | 74.9 | 75.1 | 75.0 | 75.0 | 78.5 |

Chart 6.3: Noise levels during Ganesh festival in Thane



4. Pune

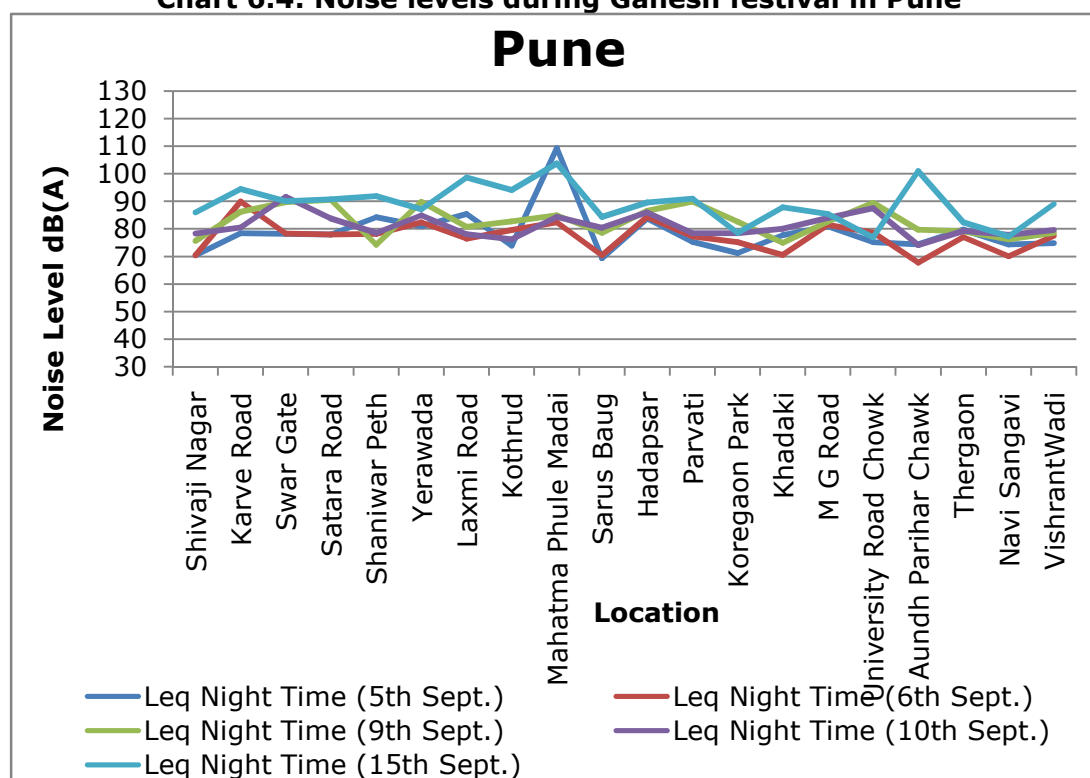
The highest noise level of 109.3 dB(A) was observed at Mahatma Phule Madai on 5th September. The noise levels were increased mainly due to the sound made while taking idols to the pandals which also creates traffic congestion.

Table 6.4: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Pune

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---------------------|---|---|---|--|--|
| Shivaji Nagar | 70.4 | 70.4 | 75.6 | 78.3 | 86.0 |
| Karve Road | 78.4 | 89.9 | 86.2 | 80.5 | 94.5 |
| Swar Gate | 78.2 | 78.3 | 89.7 | 91.7 | 90.0 |
| Satara Road | 78.0 | 78.0 | 90.5 | 83.8 | 90.8 |
| Shaniwar Peth | 84.2 | 78.2 | 74.3 | 78.6 | 91.9 |
| Yerawada | 81.0 | 82.4 | 89.8 | 85.0 | 87.1 |
| Laxmi Road | 85.4 | 76.5 | 80.8 | 78.1 | 98.6 |
| Kothrud | 73.9 | 79.6 | 82.7 | 76.2 | 94.1 |
| Mahatma Phule Madai | 109.3 | 82.4 | 85.0 | 84.4 | 103.8 |
| Sarus Baug | 69.4 | 70.4 | 78.5 | 80.4 | 84.4 |
| Hadapsar | 83.8 | 84.4 | 86.6 | 86.0 | 89.6 |
| Parvati | 75.3 | 77.3 | 89.9 | 78.4 | 91.0 |
| Koregaon Park | 71.2 | 75.2 | 82.6 | 78.4 | 78.5 |
| Khadaki | 77.7 | 70.5 | 75.0 | 80.1 | 87.9 |

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--------------------------|---|---|---|--|--|
| M G Road | 80.9 | 81.5 | 82.6 | 84.0 | 85.4 |
| University Road Chowk | 75.2 | 78.7 | 89.5 | 87.5 | 76.9 |
| Aundh Parihar Chawk | 74.4 | 67.7 | 79.7 | 74.1 | 101.0 |
| Thergaon | 79.7 | 77.0 | 79.1 | 79.2 | 82.4 |
| Navi Sangavi | 74.4 | 70.1 | 76.2 | 77.9 | 77.3 |
| VishrantWadi | 74.8 | 77.5 | 78.5 | 79.6 | 89.0 |

Chart 6.4: Noise levels during Ganesh festival in Pune



5. Nashik

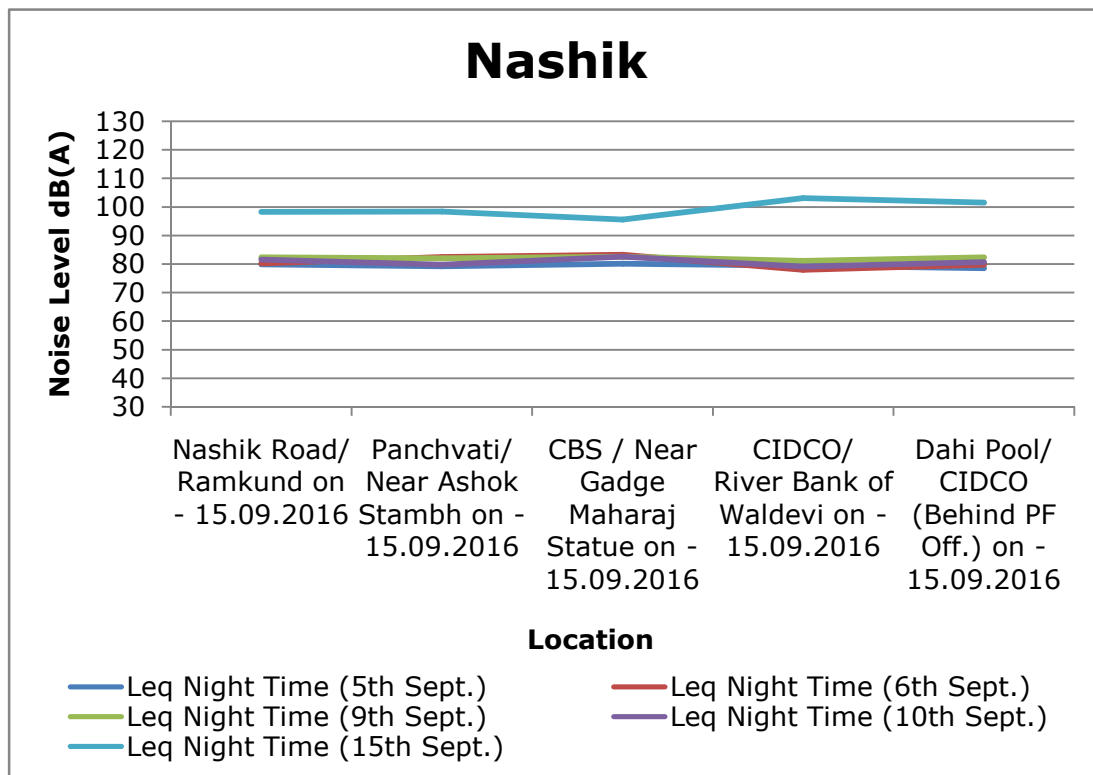
The highest noise level in Nashik was observed at River Bank of Waldevi with 103.1 dB(A) on 15th September. It is one of an important spot for visarjan and the increase in noise level was mainly due to the crowd gatherings for visarjan.

Table 6.5: Equivalent Continuous (L_{Aeq})dB(A), Noise Levels in Nashik

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--|---|---|---|--|--|
| Nashik Road/ Ramkund on - 15.09.2016 | 79.9 | 80.2 | 82.3 | 81.6 | 98.2 |
| Panchvati/ Near Ashok Stambh on - 15.09.2016 | 79.2 | 82.4 | 82.0 | 79.7 | 98.4 |

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--|---|---|---|--|--|
| CBS / Near Gadge Maharaj Statue on - 15.09.2016 | 80.1 | 83.2 | 82.6 | 82.5 | 95.5 |
| CIDCO/ River Bank of Waldevi on - 15.09.2016 | 79.4 | 78.0 | 81.1 | 79.1 | 103.1 |
| Dahi Pool/ CIDCO (Behind PF Off.) on - 15.09.2016 | 78.5 | 79.7 | 82.3 | 80.6 | 101.5 |

Chart 6.5: Noise levels during Ganesh festival in Nashik



6. Aurangabad

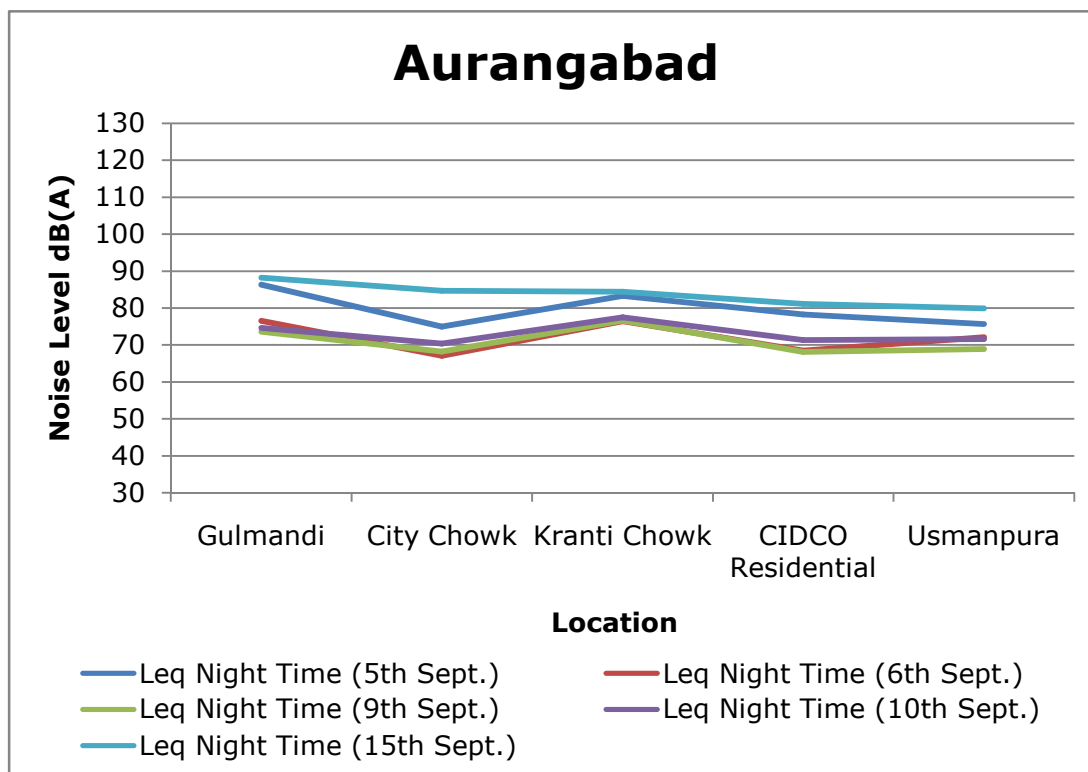
In Aurangabad the noise level was observed high on the last day of monitoring that is on 15th September. The highest noise level of 88.2 db(A) was observed at Gulmandi on the same day of noise monitoring.

Table 6.6: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Aurangabad

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--------------|---|---|---|--|--|
| Gulmandi | 86.3 | 76.5 | 73.6 | 74.6 | 88.2 |
| City Chowk | 75.0 | 67.1 | 68.2 | 70.4 | 84.7 |
| Kranti Chowk | 83.3 | 76.4 | 76.6 | 77.5 | 84.4 |

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--------------------------|---|---|---|--|--|
| CIDCO Residential | 78.3 | 68.5 | 68.1 | 71.3 | 81.1 |
| Usmanpura | 75.7 | 72.1 | 68.9 | 71.6 | 79.9 |

Chart 6.6: Noise levels during Ganesh festival in Aurangabad



7. Nagpur

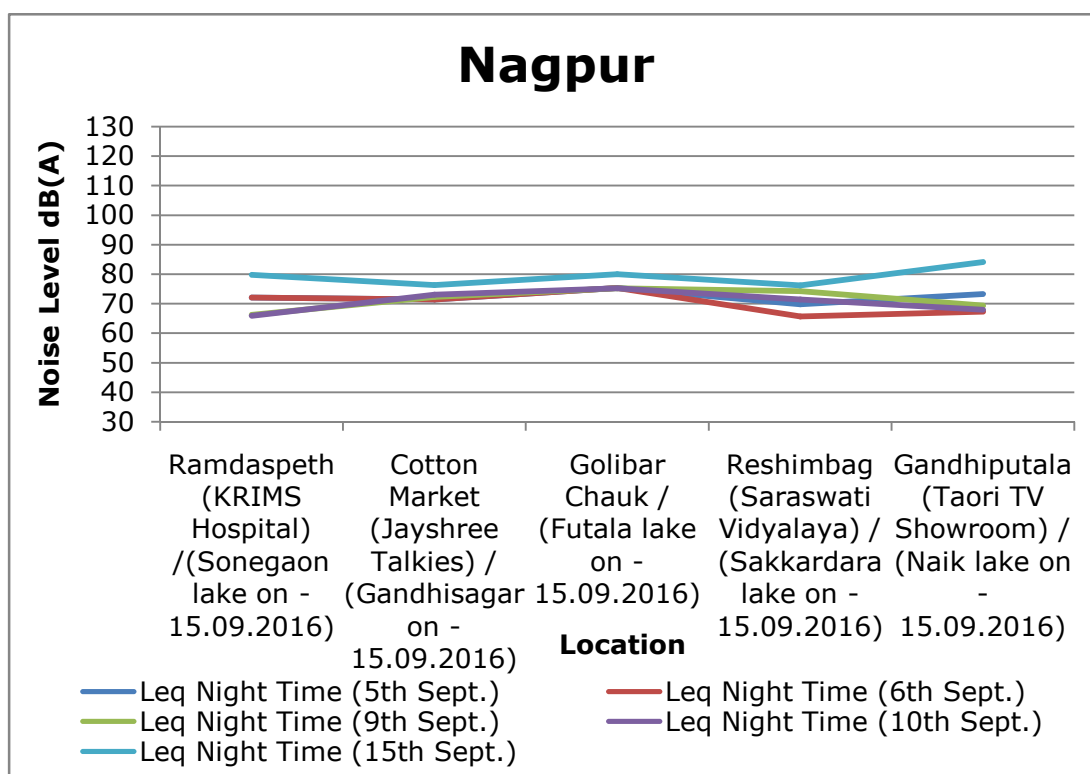
In Nagpur also the noise level was high on 15th September. The highest noise level was observed at Naik lake with 84.1 dB(A).

Table 6.7: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Nagpur

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---|---|---|---|--|--|
| Ramdaspath (KRIMS Hospital) /(Sonegaon lake on - 15.09.2016) | 72.1 | 72.1 | 66.2 | 65.9 | 79.8 |
| Cotton Market (Jayshree Talkies) / (Gandhisagar on - 15.09.2016) | 71.4 | 71.4 | 72.3 | 73.0 | 76.3 |
| Golibar Chauk / (Futala lake on - 15.09.2016) | 75.3 | 75.3 | 75.2 | 75.2 | 80.0 |

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---|---|---|---|--|--|
| Reshimbag (Saraswati Vidyalaya) / (Sakkardara lake on - 15.09.2016) | 69.8 | 65.7 | 74.2 | 71.4 | 76.2 |
| Gandhiputala (Taori TV Showroom) / (Naik lake on - 15.09.2016) | 73.2 | 67.3 | 69.3 | 67.9 | 84.1 |

Chart 6.7: Noise levels during Ganesh festival in Nagpur



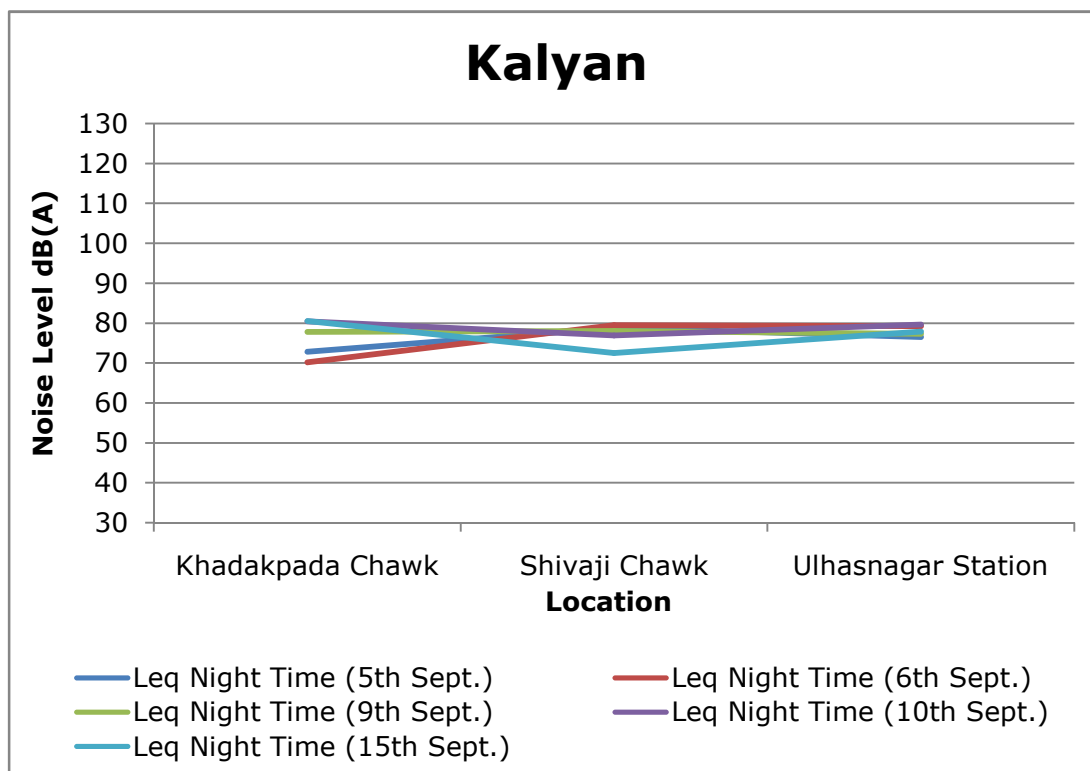
8. Kalyan

In Kalyan the highest noise level was observed at Khadakpada Chawk on 15th September with 80.5 dB(A). The increase in noise level was due to the usage of loud speakers in mandal and during possession.

Table 6.8: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Kalyan

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--------------------|---|---|---|--|--|
| Khadakpada Chawk | 72.8 | 70.2 | 77.8 | 80.4 | 80.5 |
| Shivaji Chawk | 78.8 | 79.5 | 78.0 | 76.9 | 72.5 |
| Ulhasnagar Station | 76.5 | 79.2 | 77.3 | 79.6 | 77.9 |

Chart 6.8: Noise levels during Ganesh festival in Kalyan

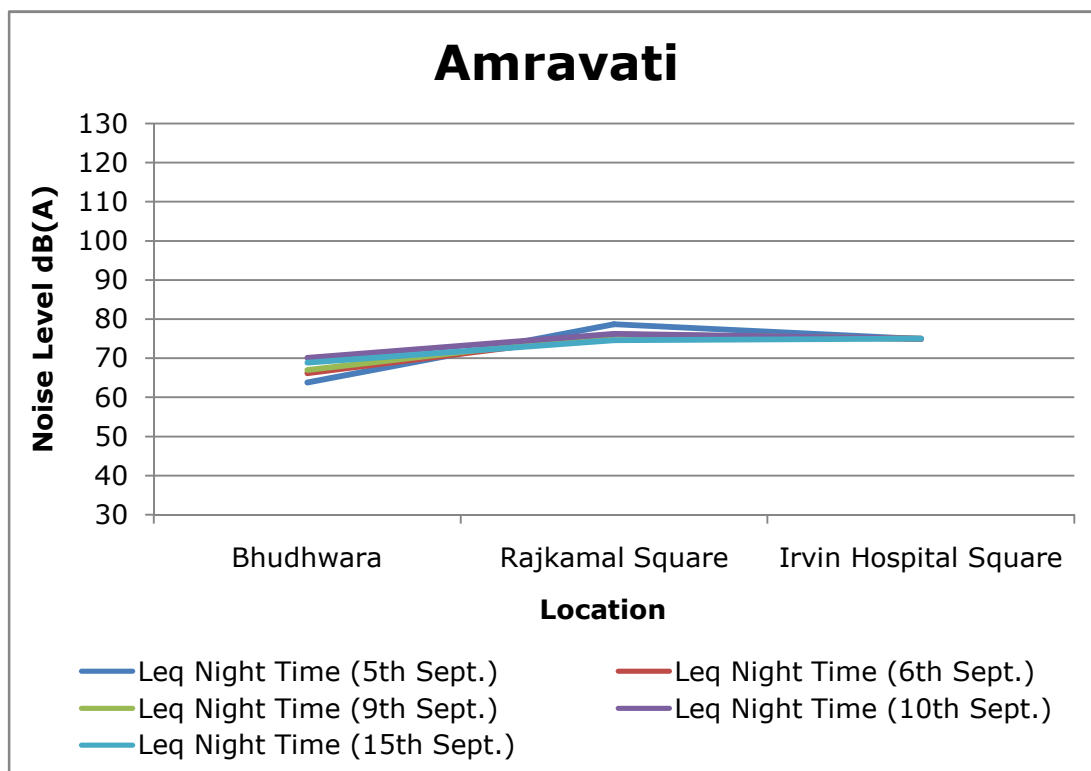


9. Amravati

The maximum noise level in Amravati was observed at Rajkamal Square of 78.7 dB(A) on 5th September.

Table 6.9: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Amravati

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|-----------------------|---|---|---|--|--|
| Bhudhwara | 63.8 | 66.2 | 67.0 | 70.1 | 68.9 |
| Rajkamal Square | 78.7 | 76.1 | 76.1 | 76.2 | 74.6 |
| Irvin Hospital Square | 74.9 | 74.9 | 75.0 | 75.0 | 75.0 |

Chart 6.9: Noise levels during Ganesh festival in Amravati


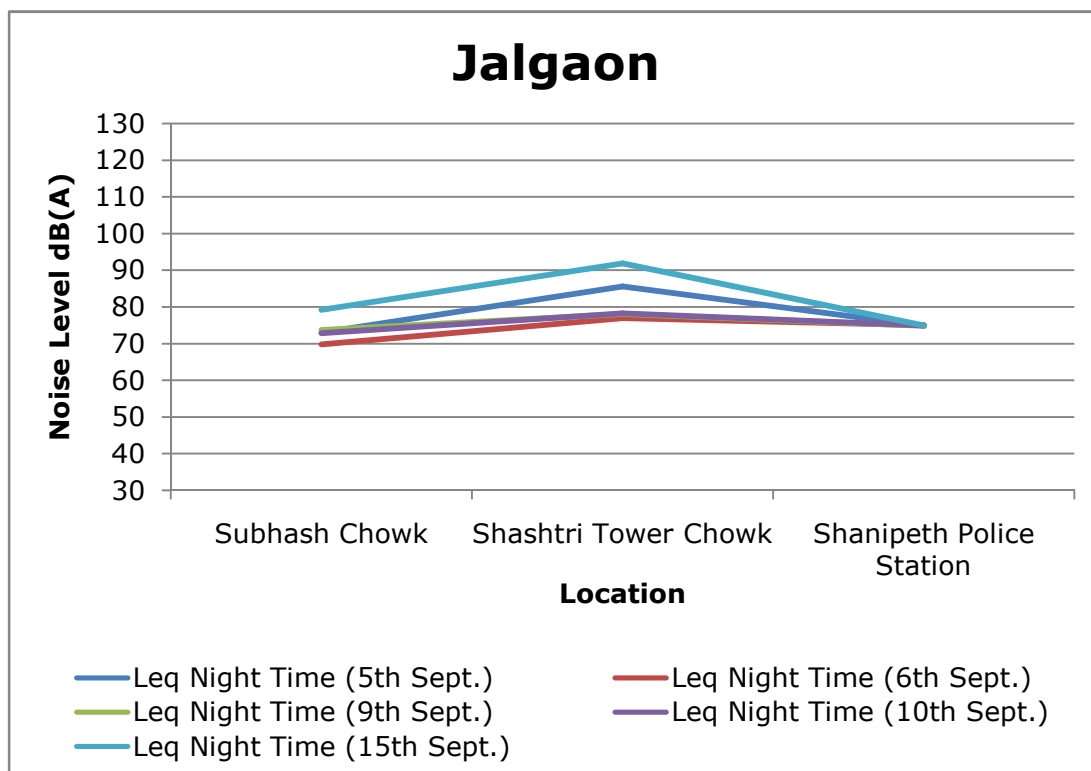
10. Jalgaon

The highest noise level was observed at Shashtri Tower Chowk with 91.8 dB(A) on 15th September which was caused due to the possession of idols for visaarjan.

Table 6.10: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Jalgaon

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--------------------------|---|---|---|--|--|
| Subhash Chowk | 73.0 | 69.8 | 73.7 | 72.8 | 79.2 |
| Shashtri Tower Chowk | 85.6 | 76.9 | 78.1 | 78.2 | 91.8 |
| Shanipeth Police Station | 74.8 | 75.0 | 74.8 | 74.9 | 74.9 |

Chart 6.10: Noise levels during Ganesh festival in Jalgaon



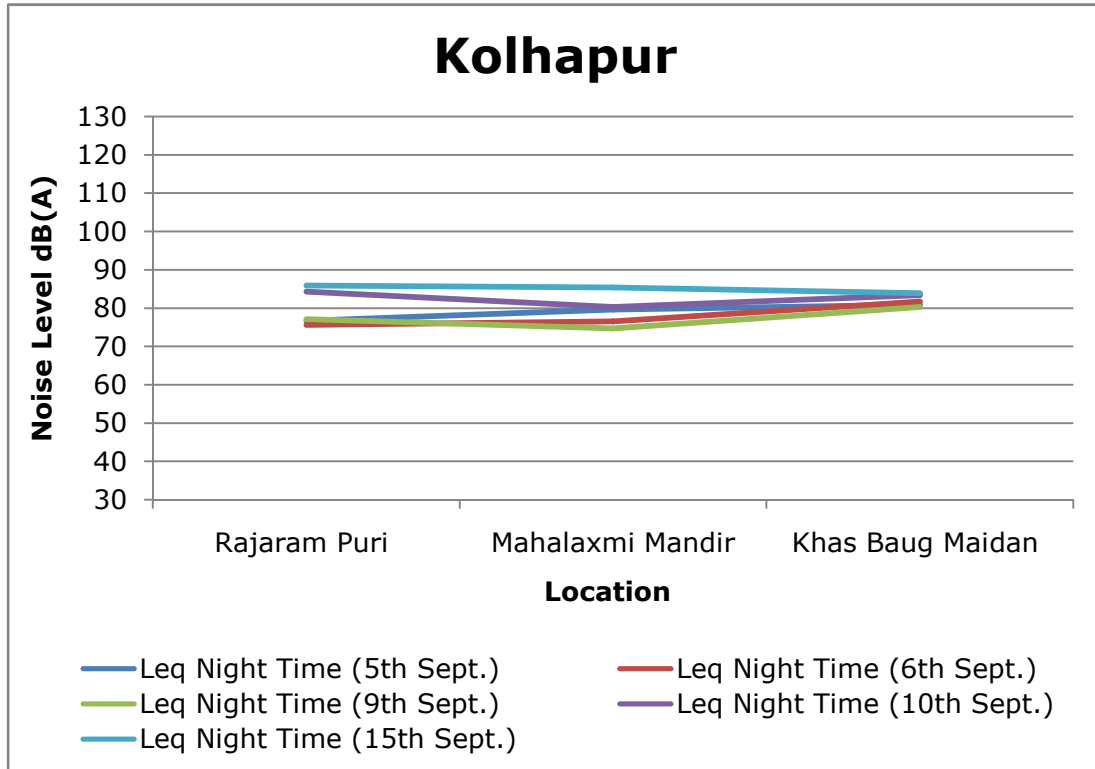
11. Kolhapur

In Kolhapur also the last day of Ganesh festival was found to be noisy. The maximum noise level was observed at Rajaram Puri with 85.9 dB(A)

Table 6.11: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Kolhapur

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|------------------|---|---|---|--|--|
| Rajaram Puri | 76.7 | 75.6 | 77.1 | 84.3 | 85.9 |
| Mahalaxmi Mandir | 79.6 | 76.5 | 74.7 | 80.3 | 85.4 |
| Khas Baug Maidan | 80.9 | 81.7 | 80.3 | 83.4 | 83.9 |

Chart 6.11: Noise levels during Ganesh festival in Kolhapur



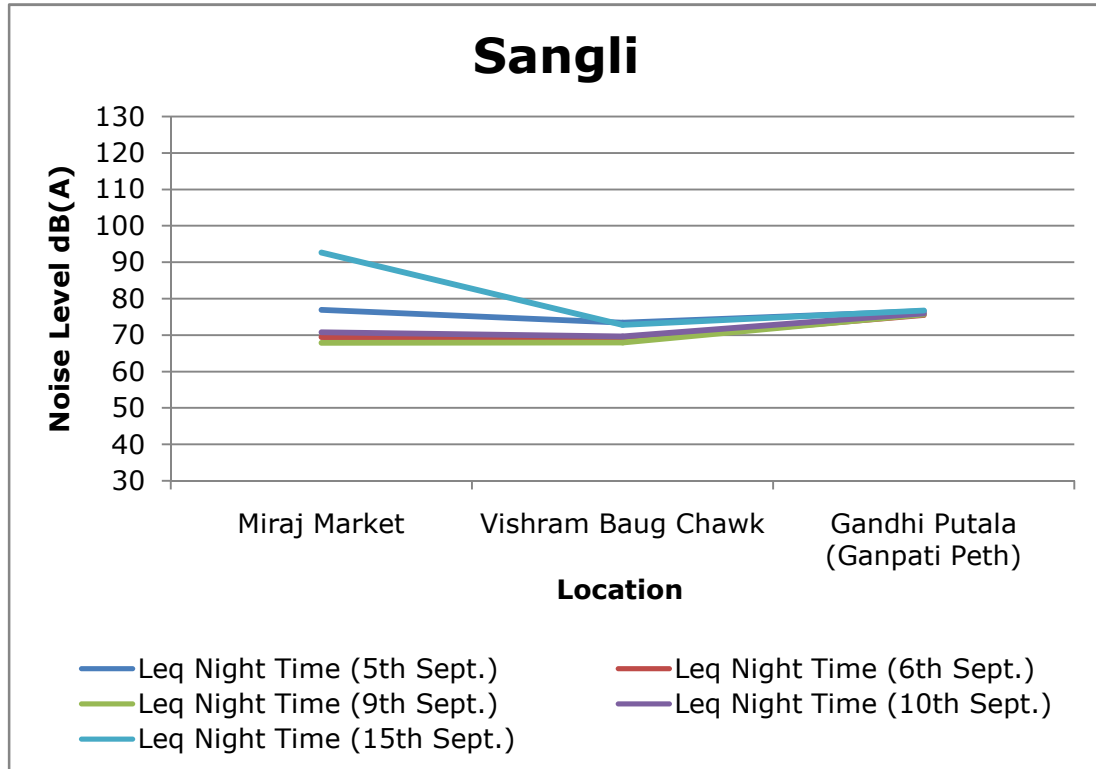
12. Sangli

In the three location monitored in Sangli area, Miraj market was found to have high noise level. The highest noise level was observed at the same on 15th September with 92.6 dB(A).

Table 6.12: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Sangli

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|-------------------------------------|---|---|---|--|--|
| Miraj Market | 76.9 | 69.4 | 67.8 | 70.7 | 92.6 |
| Vishram Baug Chawk | 73.4 | 68.5 | 67.9 | 69.6 | 72.8 |
| Gandhi Putala (Ganpati Peth) | 76.5 | 75.5 | 75.7 | 75.9 | 76.7 |

Chart 6.12: Noise levels during Ganesh festival in Sangli



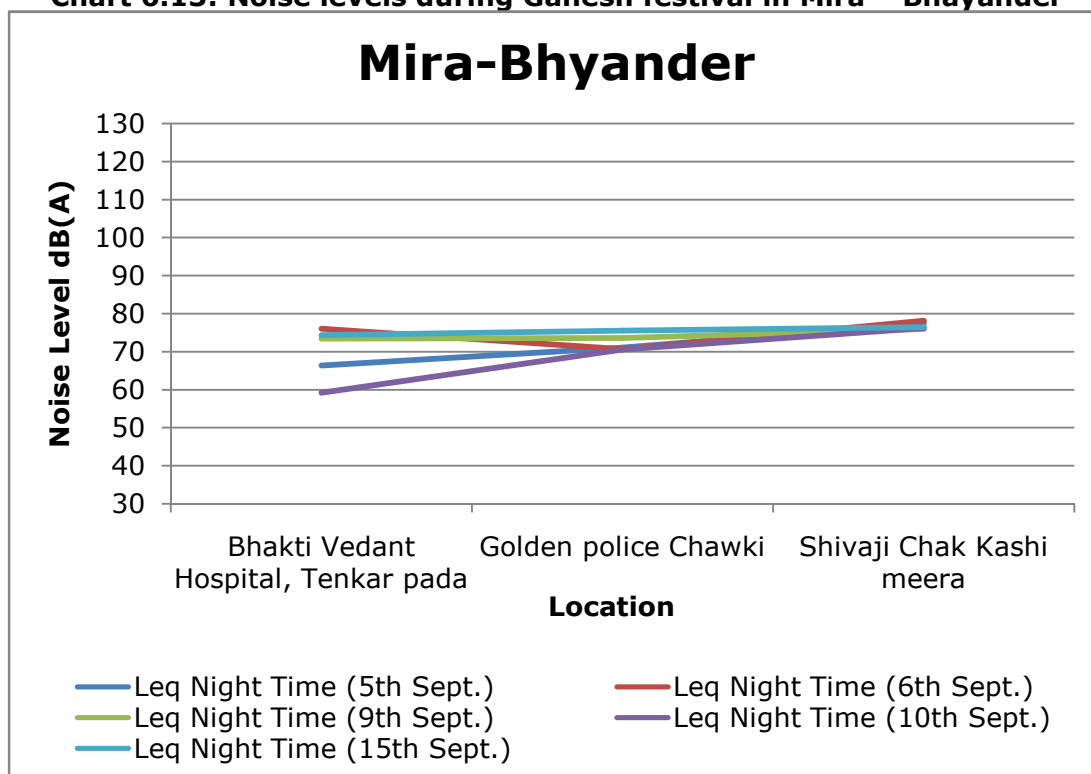
13. Mira - Bhayander

In Mira - Bhayander, the highest noise level was observed on the second day of noise monitoring at Shivaji Chawk Kashi meera with 78.1 dB(A).

Table 6.13: Equivalent Continuous (L_{eq}) dB(A) Noise Levels in Mira - Bhayander

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--|---|---|---|--|--|
| Bhakti Vedant Hospital, Tenkar pada | 66.3 | 76.0 | 73.4 | 59.2 | 74.3 |
| Golden police Chawki | 71.0 | 70.6 | 73.6 | 70.5 | 75.5 |
| Shivaji Chak Kashi meera | 77.4 | 78.1 | 75.9 | 76.2 | 76.4 |

Chart 6.13: Noise levels during Ganesh festival in Mira – Bhayander

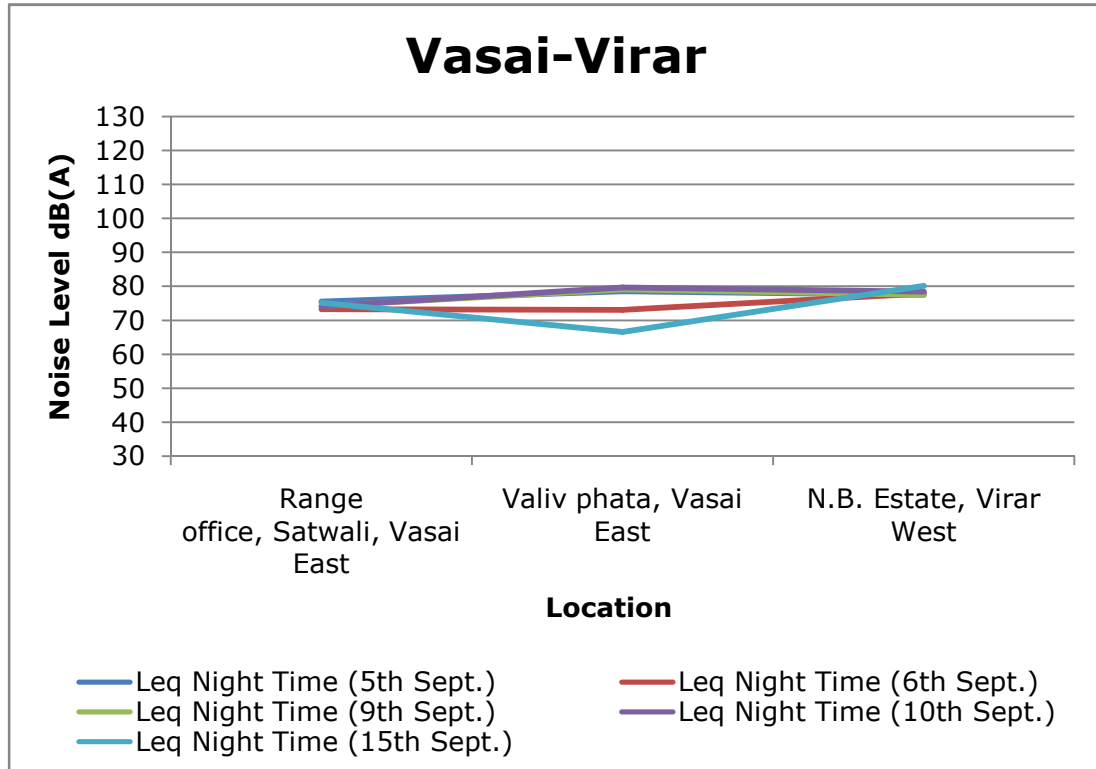


14. Vasai - Virar

In Vasai – Virar, the maximum noise level was observed at N.B. Estate, Virar West on 15th September night time with 80.1 dB(A).

Table 6.14: Equivalent Continuous (L_{eq}) dB(A) Noise Levels in Vasai - Virar

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|-----------------------------------|---|---|---|--|--|
| Range office, Satwali, Vasai East | 75.5 | 73.3 | 74.2 | 74.1 | 75.1 |
| Valiv phata, Vasai East | 78.5 | 73.1 | 79.1 | 79.7 | 66.6 |
| N.B. Estate, Virar West | 77.5 | 77.9 | 77.5 | 78.4 | 80.1 |

Chart 6.14: Noise levels during Ganesh festival in Vasai - Virar


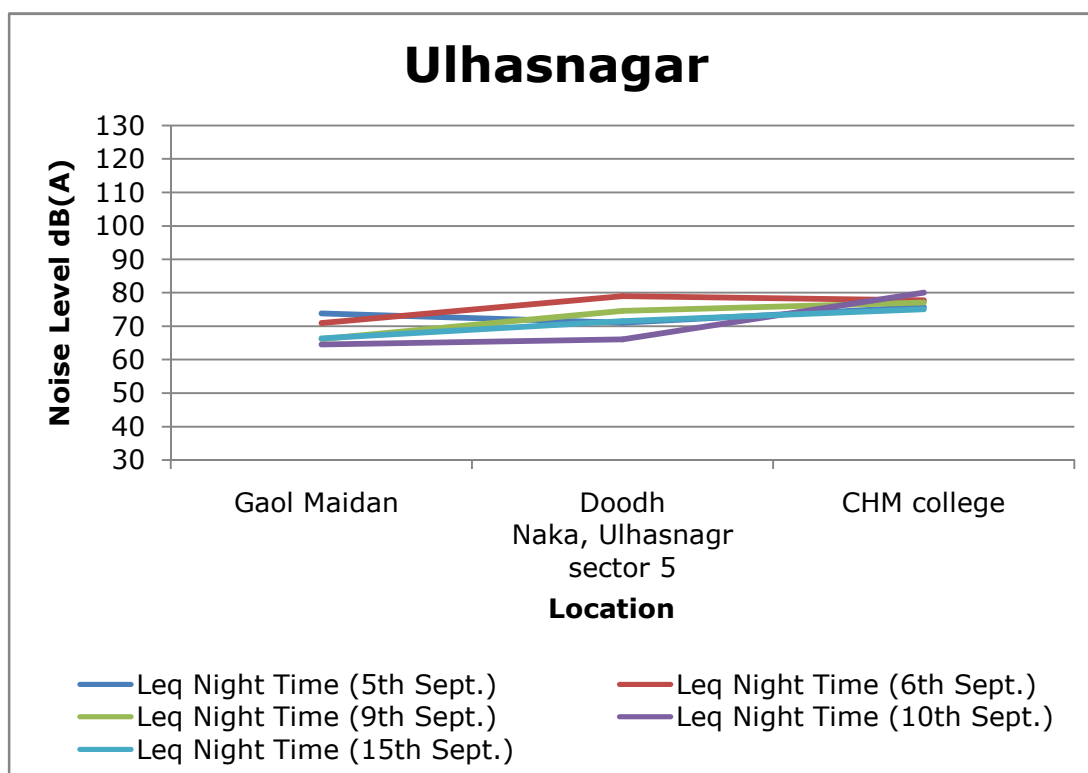
15. Ulhasnagar

The maximum noise level was observed at CHM College with 80.0 dB(A) on 10th September which was mainly caused by the traffic conjection of the crowd gadered for visarjan.

Table 6.15: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Ulhasnagar

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--------------------------------|---|---|---|--|--|
| Gaol Maidan | 73.8 | 70.9 | 66.1 | 64.5 | 66.3 |
| Doodh Naka, Ulhasnagr sector 5 | 71.0 | 79.0 | 74.6 | 66.0 | 71.5 |
| CHM college | 75.7 | 77.7 | 77.0 | 80.0 | 75.0 |

Chart 6.15: Noise levels during Ganesh festival in Ulhasnagar



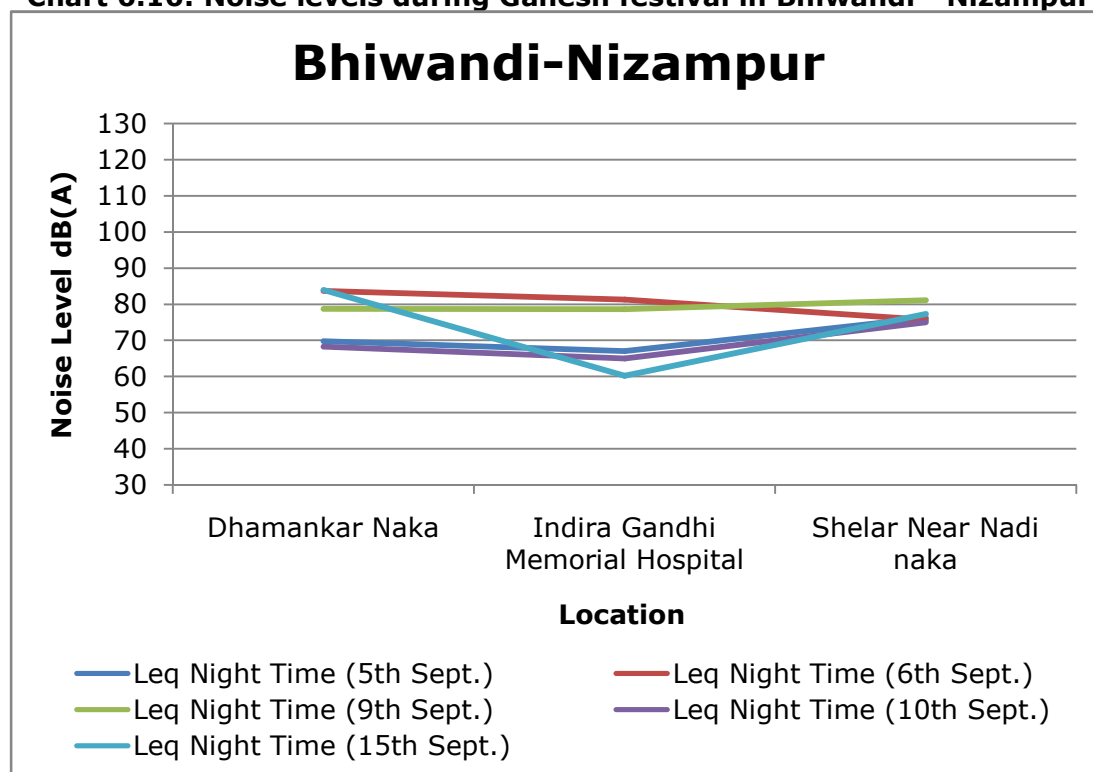
16. Bhiwandi - Nizampur

The highest noise level of 83.9 dB(A) was observed both at Dhamankar Naka on 15th September.

Table 6.16: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Bhiwandi - Nizampur

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---------------------------------|---|---|---|--|--|
| Dhamankar Naka | 69.8 | 83.7 | 78.7 | 68.3 | 83.9 |
| Indira Gandhi Memorial Hospital | 67.0 | 81.3 | 78.6 | 65.0 | 60.2 |
| Shelar Near Nadi naka | 76.2 | 75.7 | 81.1 | 75.0 | 77.3 |

Chart 6.16: Noise levels during Ganesh festival in Bhiwandi - Nizampur



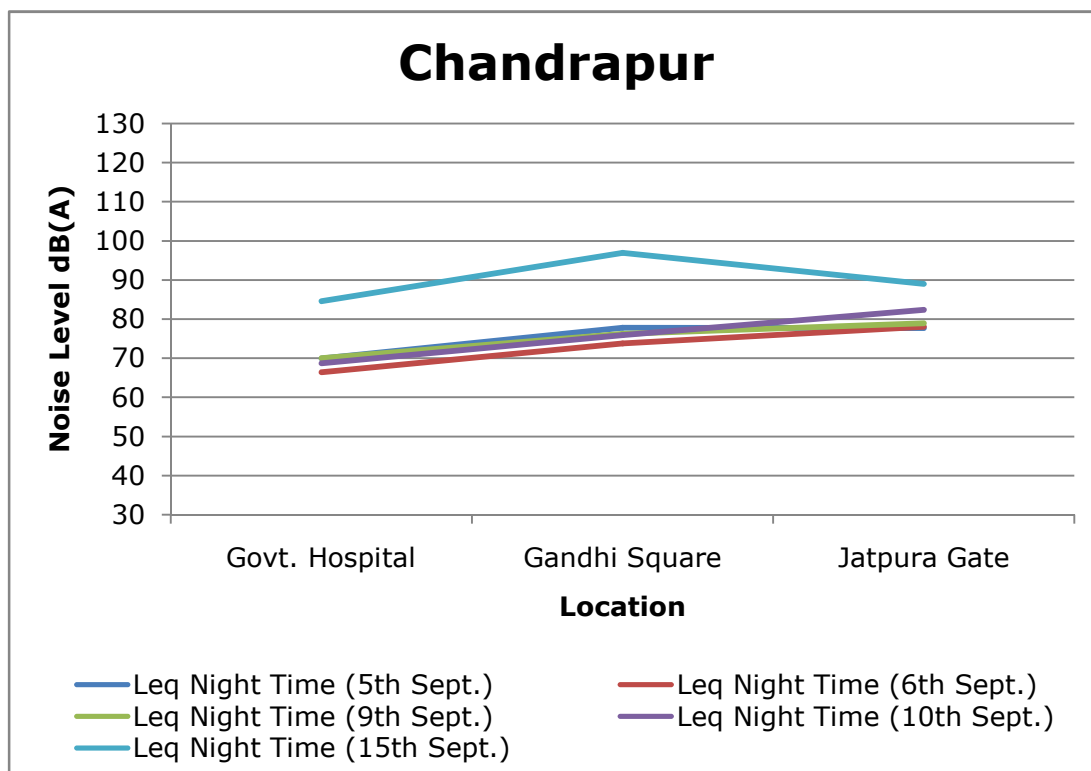
17. Chandrapur

The highest noise level of 96.9 dB(A) was observed at Gandhi Square on the last day of visarjan which was caused mainly due to the traffic congestion.

Table 6.17: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Chandrapur

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|----------------|---|---|---|--|--|
| Govt. Hospital | 69.9 | 66.4 | 70.0 | 68.7 | 84.6 |
| Gandhi Square | 77.8 | 73.8 | 76.2 | 75.9 | 96.9 |
| Jatpura Gate | 77.7 | 78.0 | 78.9 | 82.4 | 89.0 |

Chart 6.17: Noise levels during Ganesh festival in Chandrapur

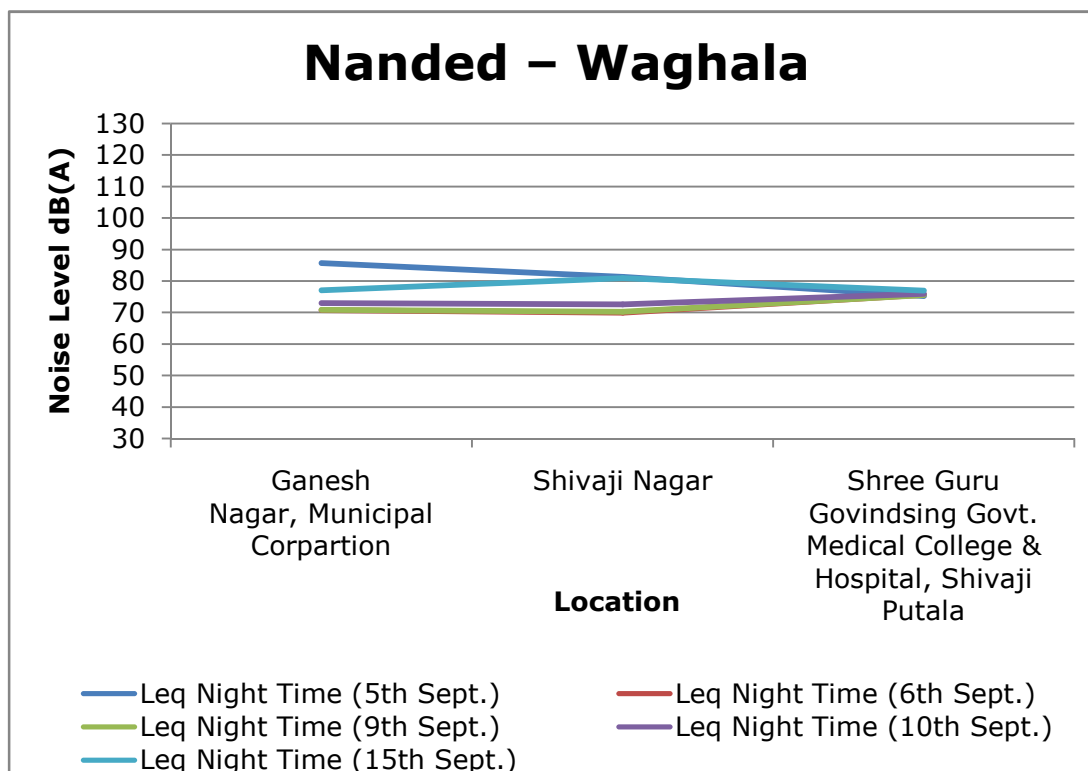


18. Nanded - Waghala

In Nanded - Waghala, the maximum noise level of 85.7 dB(A) was observed on 15th September at Ganesh Nagar, Municipal Corporation.

Table 6.18: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Nanded - Waghala

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|--|---|---|---|--|--|
| Ganesh Nagar, Municipal Corporation | 85.7 | 70.7 | 70.8 | 73.0 | 77.0 |
| Shivaji Nagar | 81.3 | 69.9 | 70.2 | 72.5 | 80.9 |
| Shree Guru Govindsing Govt. Medical College & Hospital, Shivaji Putala | 75.2 | 75.6 | 75.5 | 75.9 | 76.9 |

Chart 6.18: Noise levels during Ganesh festival in Nanded – Waghala


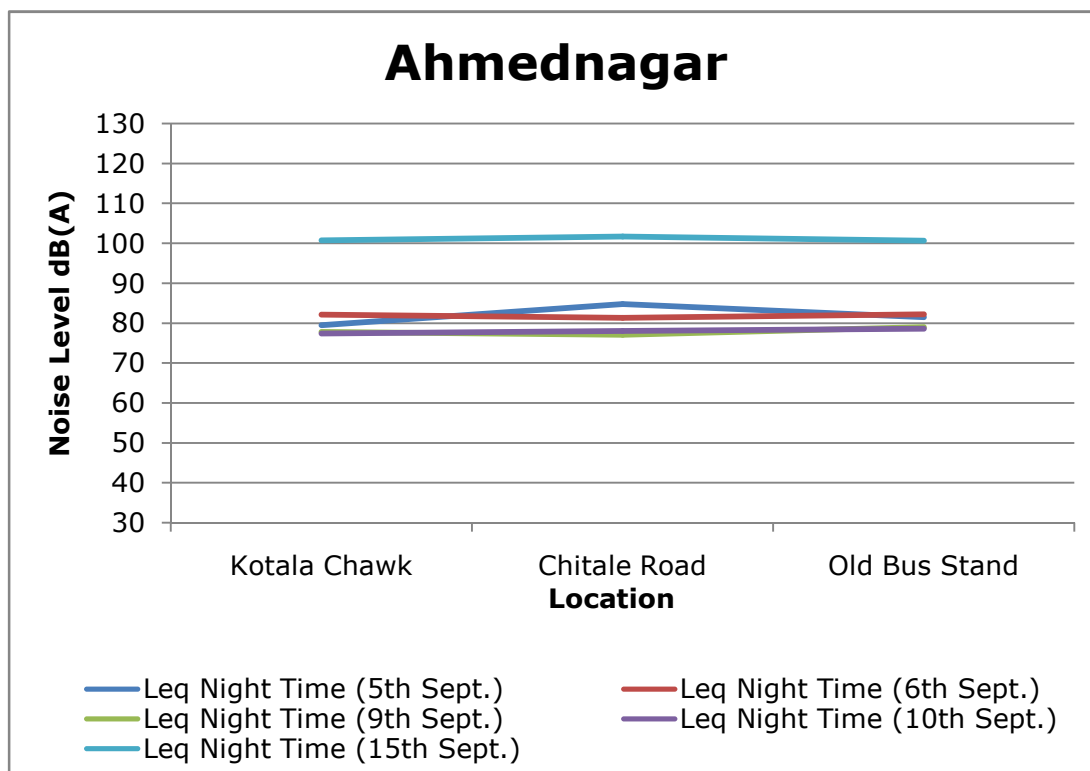
19. Ahmednagar

In Ahmednagar also the noise level was high on 15th September. The highest noise level was observed at Chitale road with 101.7 dB(A).

Table 6.19: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Ahmednagar

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---------------|---|---|---|--|--|
| Kotala Chawk | 79.5 | 82.1 | 77.8 | 77.4 | 100.7 |
| Chitale Road | 84.8 | 81.3 | 77.1 | 78.0 | 101.7 |
| Old Bus Stand | 81.5 | 82.2 | 79.0 | 78.6 | 100.6 |

Chart 6.19: Noise levels during Ganesh festival in Ahmednagar



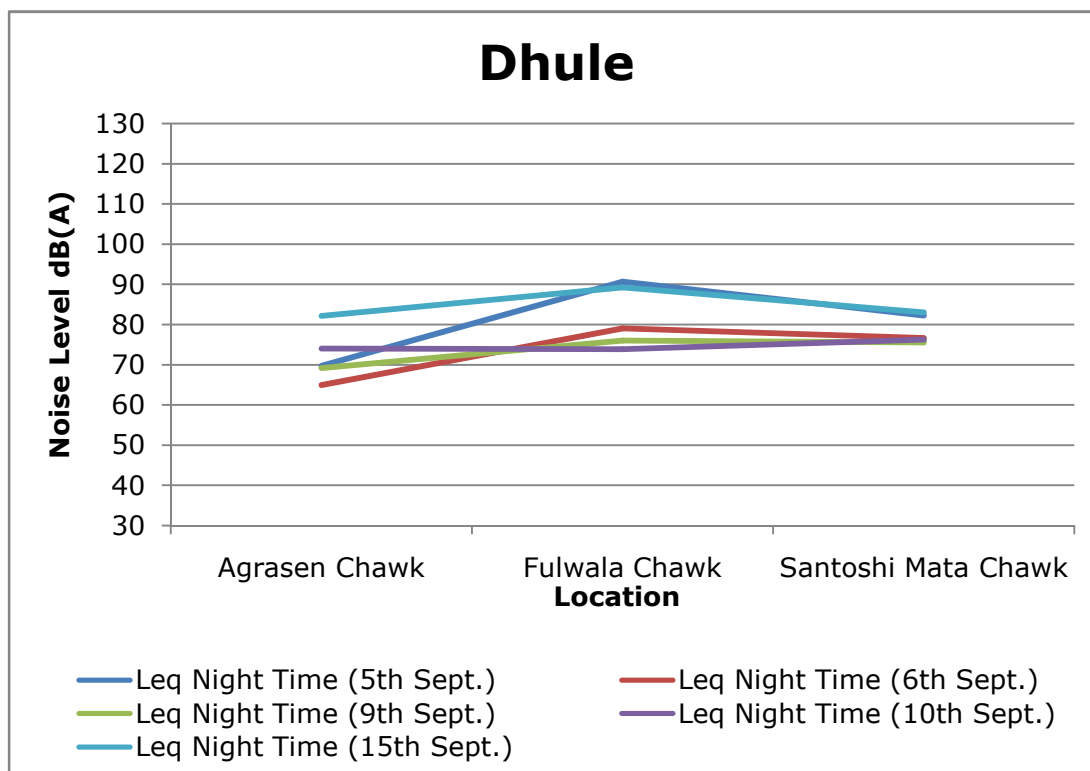
20. Dhule

In Dhule the highest noise level was observed at Fulwala Chawk on 5th September with 90.6 dB(A).

Table 6.20: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Dhule

| Location | L _{eq} Night Time (5 th Sept.) | L _{eq} Night Time (6 th Sept.) | L _{eq} Night Time (9 th Sept.) | L _{eq} Night Time (10 th Sept.) | L _{eq} Night Time (15 th Sept.) |
|---------------------|--|--|--|---|---|
| Agrasen Chawk | 69.7 | 64.9 | 69.1 | 74.0 | 82.1 |
| Fulwala Chawk | 90.6 | 79.0 | 76.0 | 73.8 | 89.2 |
| Santoshi Mata Chawk | 82.2 | 76.6 | 75.5 | 76.2 | 83.0 |

Chart 6.20: Noise levels during Ganesh festival in Dhule

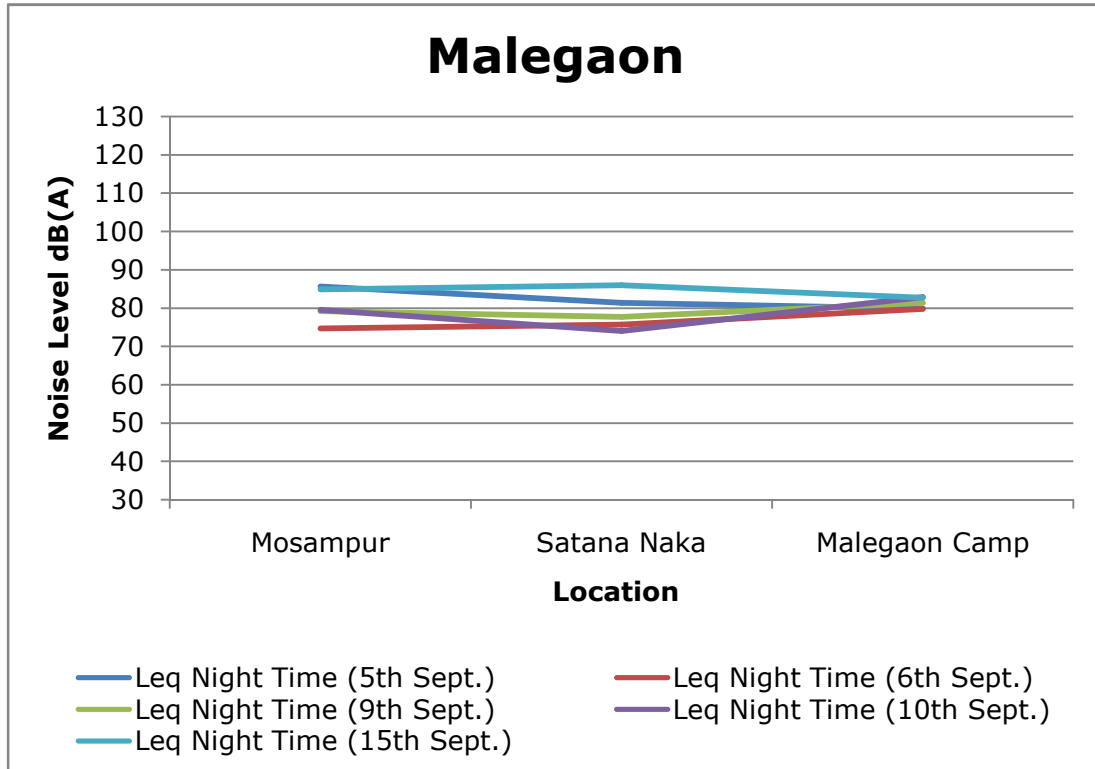


21. Malegaon

The maximum noise level in Malegaon was observed at Satana Naka of 86 dB(A) on 15th September.

Table 6.21: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Malegaon

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---------------|---|---|---|--|--|
| Mosampur | 85.6 | 74.7 | 79.2 | 79.5 | 84.9 |
| Satana Naka | 81.4 | 75.7 | 77.7 | 74.0 | 86.0 |
| Malegaon Camp | 79.9 | 79.8 | 81.4 | 82.9 | 82.7 |

Chart 6.21: Noise levels during Ganesh festival in Malegaon


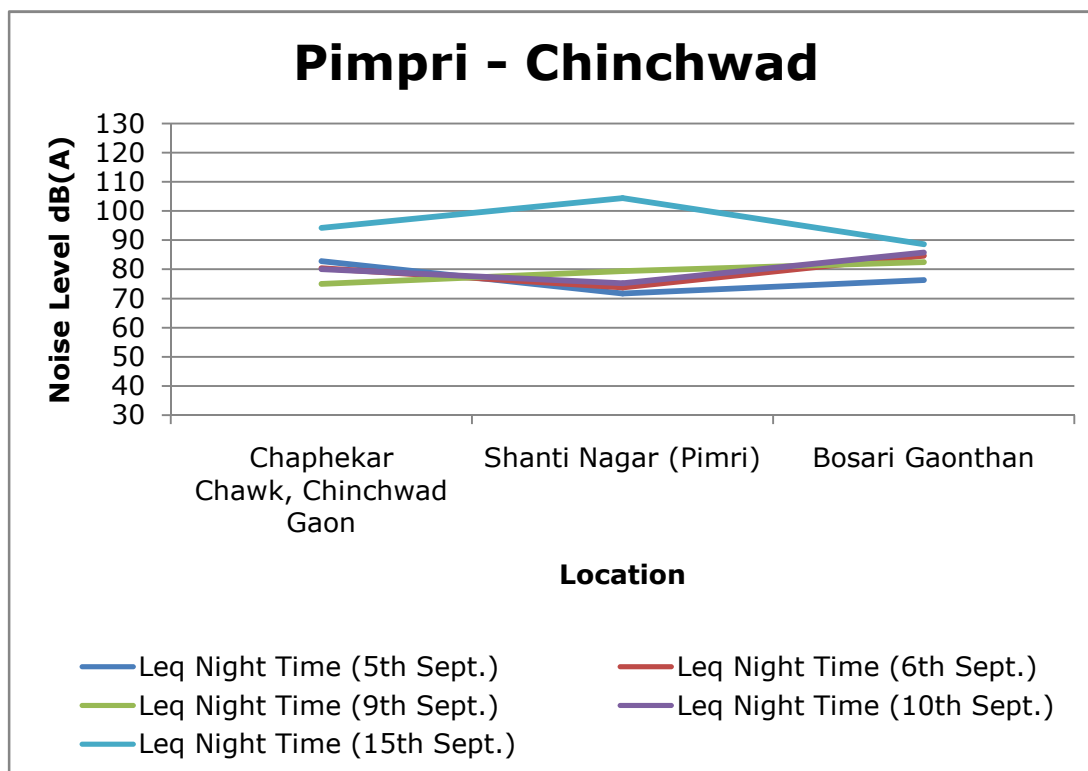
22. Pimpri - Chinchwad

In Pimpri - Chinchwad a total of 3 location where monitored. The highest noise level was observed at Shanthi Nagar with 104.4 dB(A) on 15th September.

Table 6.22: Equivalent Continuous (L_{eq}) dB(A) Noise Levels in Pimpri - Chinchwad

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---------------------------------|---|---|---|--|--|
| Chaphekar Chawk, Chinchwad Gaon | 82.8 | 80.4 | 75.0 | 80.1 | 94.2 |
| Shanti Nagar (Pimri) | 71.7 | 73.8 | 79.4 | 75.2 | 104.4 |
| Bosari Gaonthan | 76.3 | 84.7 | 82.5 | 85.7 | 88.6 |

Chart 6.22: Noise levels during Ganesh festival in Pimpri - Chinchwad

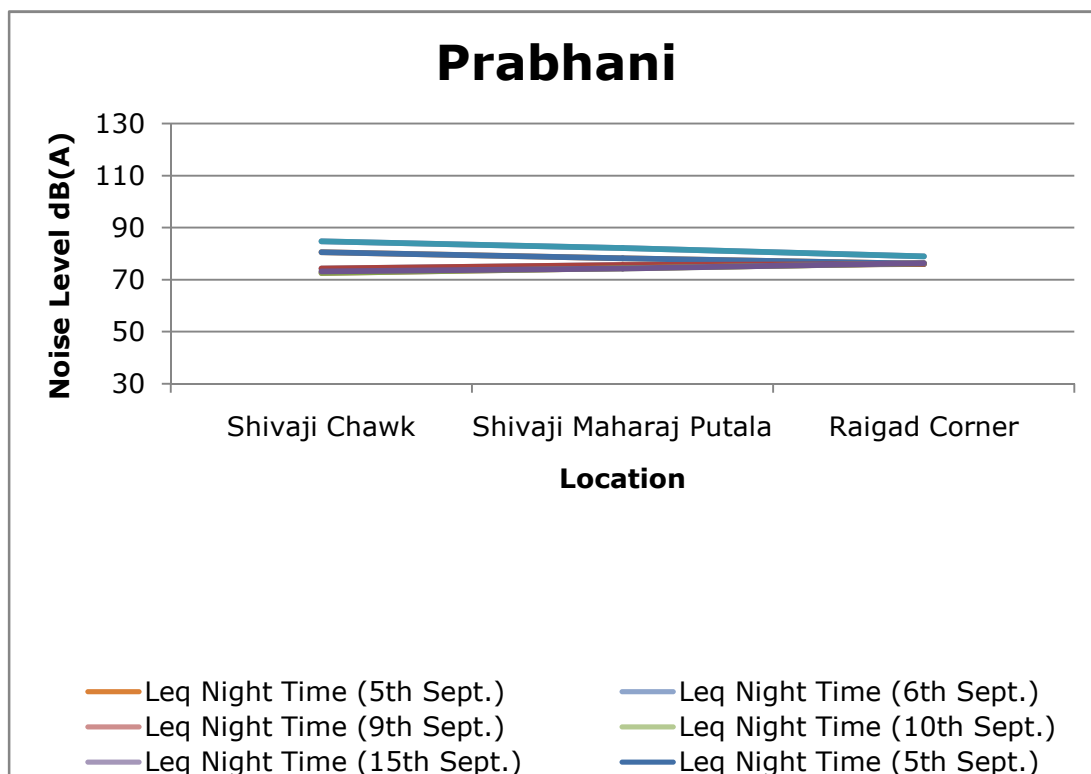


23. Prabhani

In Prabhani, the highest noise level was observed at Shivaji Chawk with 84.7 dB(A) on 27th September. The noise level during night time exceeded the permissible limit. The increase in noise level is due to the pandals and also traffic caused due to the proceedings of visarjan.

Table 6.23: Equivalent Continuous (L_{eq}) dB(A) Noise Levels in Prabhani

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|-------------------------------|---|---|---|--|--|
| Shivaji Chawk | 80.6 | 74.3 | 72.6 | 73.2 | 84.7 |
| Shivaji Maharaj Putala | 78.2 | 75.6 | 74.4 | 74.3 | 82.1 |
| Raigad Corner | 76.1 | 76.0 | 76.3 | 76.4 | 79.0 |

Chart 6.23: Noise levels during Ganesh festival in Prabhani


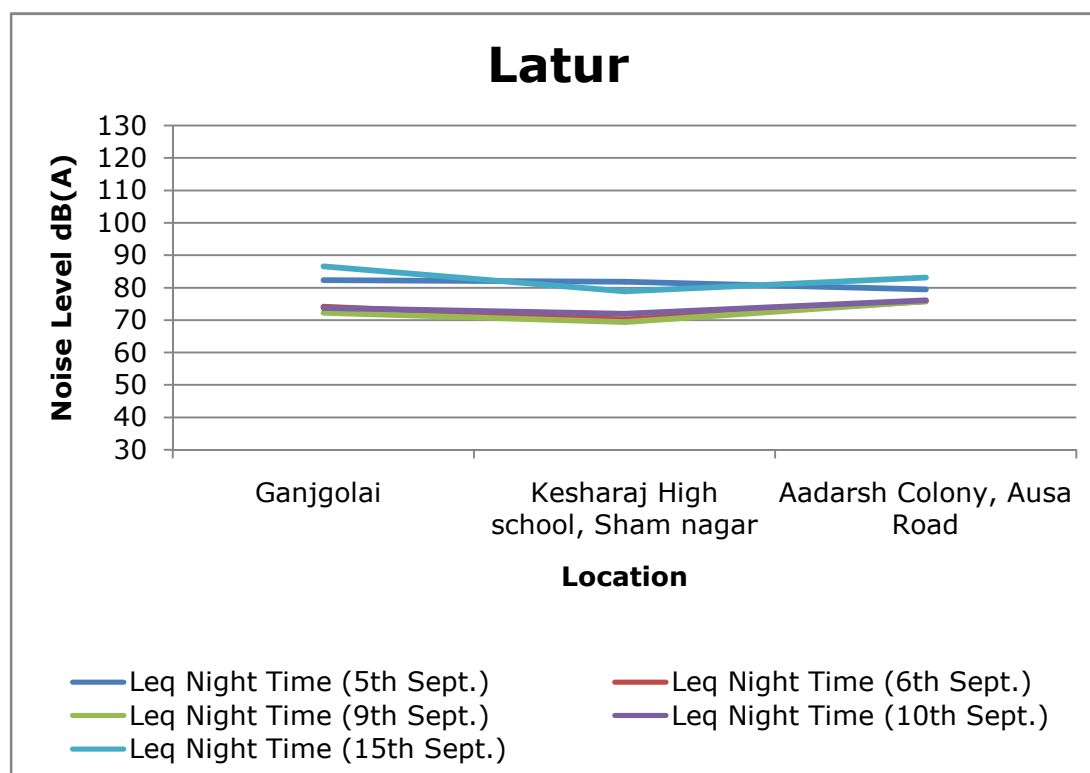
24. Latur

The maximum noise level of 86.5 dB(A) in Latur was also observed at Ganjgolai on 15th September.

Table 6.24: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Latur

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---|---|---|---|--|--|
| Ganjgolai | 82.3 | 74.1 | 72.2 | 73.7 | 86.5 |
| Kesharaj High school, Sham nagar | 81.8 | 70.1 | 69.3 | 71.9 | 78.8 |
| Aadarsh Colony, Ausa Road | 79.4 | 75.8 | 75.8 | 76.1 | 83.1 |

Chart 6.24: Noise levels during Ganesh festival in Latur



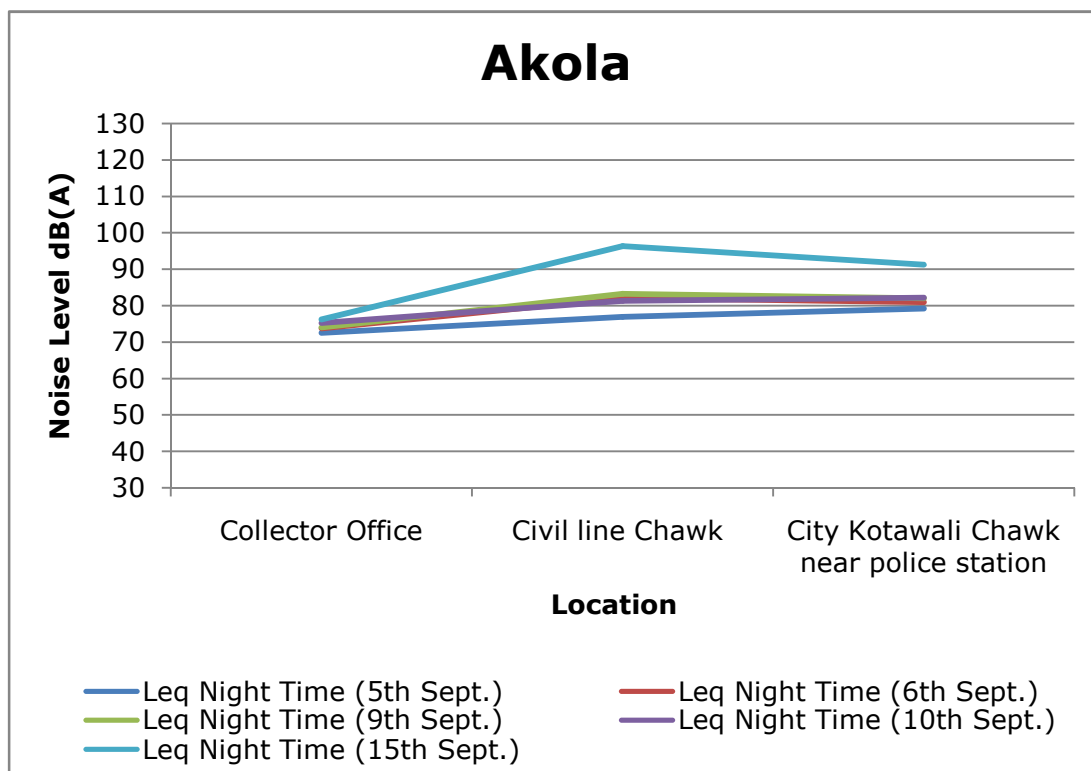
25. Akola

In Akola also the highest noise level of 96.3 dB(A) was observed on 15th September at Civil line Chawk / Ratanlal plot.

Table 6.25: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Akola

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|---|---|---|---|--|--|
| Collector Office | 72.5 | 73.7 | 74.0 | 75.2 | 76.2 |
| Civil line Chawk | 76.9 | 82.1 | 83.2 | 81.3 | 96.3 |
| City Kotawali Chawk near police station | 79.2 | 80.9 | 82.0 | 82.2 | 91.2 |

Chart 6.25: Noise levels during Ganesh festival in Akola



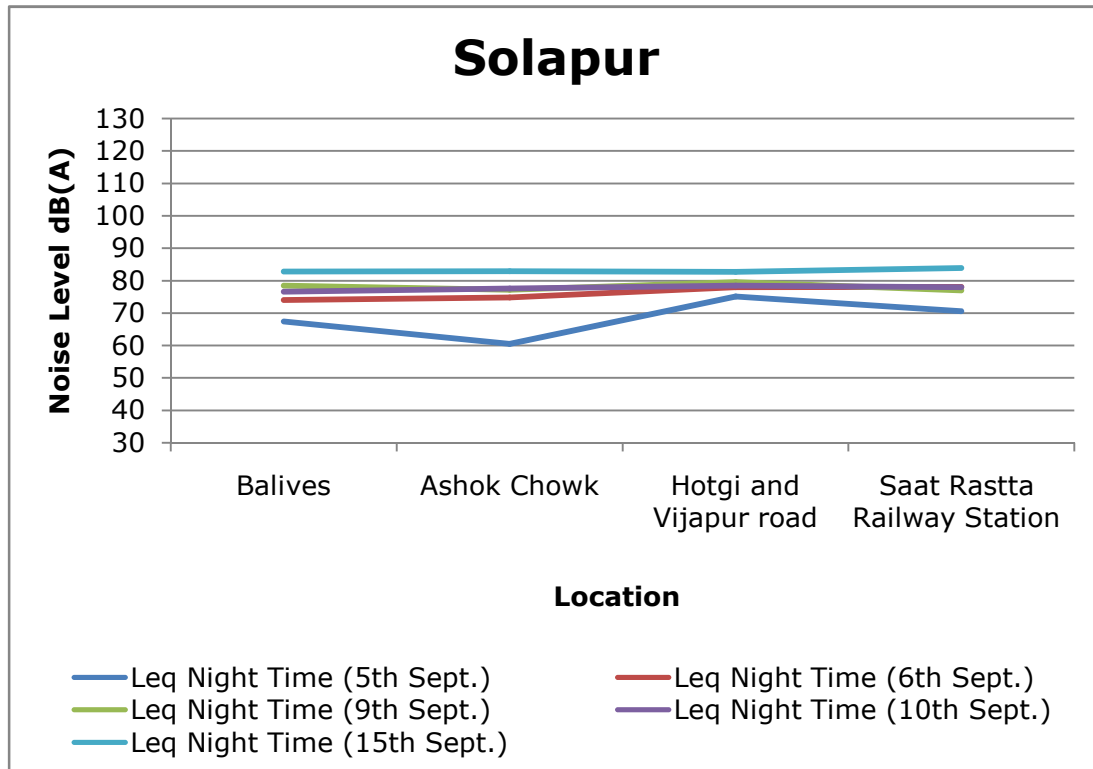
26. Solapur

The highest noise level in Solapur was observed near Saat Rastta Railway Station with 83.9 dB(A) on 15th September.

Table 6.26: Equivalent Continuous (L_{eq}) dB(A), Noise Levels in Solapur

| Location | L_{eq} Night Time (5 th Sept.) | L_{eq} Night Time (6 th Sept.) | L_{eq} Night Time (9 th Sept.) | L_{eq} Night Time (10 th Sept.) | L_{eq} Night Time (15 th Sept.) |
|-----------------------------|---|---|---|--|--|
| Balives | 67.4 | 74.0 | 78.4 | 76.6 | 82.8 |
| Ashok Chowk | 60.5 | 74.8 | 77.1 | 77.5 | 82.9 |
| Hotgi and Vijapur road | 75.1 | 77.9 | 79.5 | 78.4 | 82.7 |
| Saat Rastta Railway Station | 70.5 | 78.0 | 76.9 | 77.9 | 83.9 |

Chart 6.26: Noise levels during Ganesh festival in Solapur



Comparative Study of Noise levels

Comparative study of the last to years, i.e. 2015 – 2016 shows that the average noise levels in all the cities are lesser this year in almost all the regions.

Comparative study shows the following results in different cities of Maharashtra:

Mumbai: Comparative study shows that this year the noise level was observed higher in only Kandivali (W) as compared to last year. All other region showed lesser noise level this year.

Navi Mumbai: The noise level in Navi Mumbai was lesser in all location this year than previous year on all 5 days.

Thane: In Thane, the noise level was higher at Wagle Estate- Raila Devi Lake on the second and fourth day of monitoring and at Main Road- Gaondevi Mandir, Naupada on the third day of noise monitoring.

Pune: There was increase in noise level at Mahatma Phule Madai and Satara Road on the first and third day of noise monitoring respectively.

Nashik: The noise level of Nashik was higher at CBS and River Bank of Waldevi on the second and last day of noise monitoring respectively.

Aurangabad: The noise level in Aurangabad on the first day of monitoring was high as compared to the previous year.

Nagpur: The observed noise level was more or less the same as observed last year.

Kalyan: Bhiwandi and Ulhasnagar station was observed with average high noise levels this year.

Amravati: The noise level in Amravati remained the same as perious year with no increase or decrease.

Jalgaon: In Jalgaon, the average noise level have increased in the last day of monitoring as compared to last two years.

Kolhapur: The average highest noise level in Kholapur this year was observed at Mahalaxmi Mandir.

Satara:In Satara, there was no difference in the noise level observed as compared to last year.

Annexure V Noise Levels during Ganesh Festival for last 2 years in different cities of Maharashtra

Conclusion

This year 132 locations from 26 Municipal Corporation of Maharashtra for 5 days period during Ganesh Festival i.e. on 5th, 6th, 9th, 10th & 15th September 2016 for 6 hours from 6 PM to 12 AM for each location which comprise of residential, commercial and silence zone. There was a significant decrease in the noise levels observed in almost all areas

Municipal Corporation like Mumbai, Pune, Thane, Kalyan, Nagpur etc. showed tremendous decrease in the noise levels. The main noise level increase is more due to the increase in traffic and lesser due to the festival. People are becomed more and more aware about the ill-effect of the noise pollution which have given such good returns. It should also be noted that police also was very active in controlling the noise level this year.

The awareness of noise pollution is increased within the public through different media like newspaper, television etc. Many people celebrate an Eco friendly Ganesh Festival to control environmental pollution. The decrease in noise pollution is also a result of this awareness.

Definitions

A-Weighting

"A-weighting" is the frequency weighting characteristic as specified in IEC 123 or IEC 179 and intended to approximate the relative sensitivity of the normal human ear to different frequencies (itches) of sound.

A-weighted Sound Pressure Level

The "A-weighted sound pressure level" is the sound pressure level modified by application of the A-weighting. It is measured in dBA, A-weighted, and denoted as dBA.

Decibel

The "decibel" is a dimensionless measure of sound level or sound pressure level; see sound pressure level.

Equivalent Sound Level

The "equivalent sound level" sometimes denoted L_{eq} , is the value of the constant sound level which would result in exposure to the same total A-weighted energy as would the specified time-varying sound, if the constant sound level persisted over an equal time interval. It is measured in dBA.

Fast Response

"Fast response" is a dynamic characteristic setting of a sound level meter meeting the applicable specifications.

Percentile Sound Level

The "x percentile sound level", designated L_x , is the sound level exceeded x percent of a specified time period, It is measured in dBA.

Sound

"Sound" is an oscillation in pressure, stress, particle displacement or particle velocity, in a medium with internal forces (e.g. elastic, viscous), or the superposition of such propagated oscillations, which may cause an auditory sensation.

Sound Level

"Sound level" is the A-weighted sound pressure level.

Sound Level Meter

A "sound level meter" is an instrument which is sensitive to and calibrated for the measurement of sound.

Sound Pressure Level

The "sound pressure level" is twenty times the logarithm to the base 10 of the ratio of the effective pressure (p) of a sound to the reference pressure (Pr) of 20 μ Pa. Thus the sound pressure level in dB = $20 \log_{10} P/Pr$.

Glimpses of the Event

Juhu Chowpati - Mumbai



Mira-Bhyander - Mumbai



Kandivali (W) - Mumbai



Borivali - Mumbai



Parel - Mumbai



Girgaon Chowpati - Mumbai



Kotala Chawk - Ahmednagar



Bosari Gaonthan - Pimpri-Chinchwad



Chaphekar Chawk - Pimpri-Chinchwad



Kothrud - Pune

VishrantWadi - Pune



Nashik Road - Nashik



Dahi Pool - Nashik



City Kotawali Chawk - Akola



Collector Office - Akola



Govt. Hospital - Chandrapur



Gandhi Square - Chandrapur



Agrasen Chawk - Dhule



Satana Naka - Malegaon



Fulwala Chawk - Dhule



Malegaon Camp - Malegaon



ANNEXURE I

Annexure I - Detailed list of locations

| Sr. No. | City | Location name (details) |
|---------|-------------|---|
| 1. | Mumbai | <p>Andheri - Azad Nagar, Sarvajanik Utsav Samiti</p> <p>Bandra - Sarvajanik Ganeshutsav Mandal</p> <p>Bhandup - Jay Bajrang Mitra Mandal</p> <p>Borivali - Manav Mitra Mandal</p> <p>Byculla - Sarvajanik Ganeshutsav mandal</p> <p>Chembur (East) - Near Ashish Talao / Ashish Theatre</p> <p>Chembur (West) - Sahyadri Krida Mandal Tilak Nagar</p> <p>Chinchpokali (E) - Lalbaug Raja Sarvajanik Ganeshutsav Mandal</p> <p>Chinchpokali (W) - Parsiwadi Mitra Mandal</p> <p>Dadar (East) - Khodadad Circle, Dadar TT</p> <p>Dadar (West) - Sai Ganesh Sadan, Senapati Bapat Marg, Sarvajanik Ganeshutsav Mandal, Sunder Nagar</p> <p>Elphinstone - Shiv Sai Sarvajanik Ganeshutsav Mandal, B.M. Marg</p> <p>Ghatkopar - Amar Mitra Mandal, Tilak nagar</p> <p>Girgaon Chowpati - Akhil Chowpati Bhirvi Lane, Sarvajanik Ganeshutsav Mandal</p> <p>Grant Road - Saltar Road Sarvjanik Ganeshutsav Mandal</p> <p>Juhu Chowpati - Om Kareshver Shiv Mandir (Trust)</p> <p>Kandivali (East) - Thakur Village</p> <p>Kandivali (W) - Balla Mitra Mandal</p> <p>Khar - Sarvajanik Ganeshutsav Mandal</p> <p>Mulund - Sargam Mitra Mandal</p> <p>Mumbai Central - Belasis Road, B.I.T. Chawl</p> <p>Parel - Sarvajanik Ganeshutsav Mandal Bal Gopal Mandal</p> <p>Santacruz (East) - Milan Subway, Neet & Geet Society</p> <p>Vikhroli - Balmitra Kala Mandal</p> <p>Wadala - G.B.S. Sarvajanik Ganeshutsav Mandal, Shree Ram Mandir</p> |
| 2. | Navi Mumbai | <p>Airoli - Traffic Police Chouki (before Mulund Airoli Bridge)</p> <p>CBD Belapur - MGM Hospital Chowk, Near Police Chowki</p> |

| Sr. No. | City | Location name (details) |
|---------|-------|---|
| | | Kopar Khairane - Sector-10, D-Mart Main Road Uran - Ganpati Chowk Vashi - Shivaji Chowk Near Bus Depot |
| 3. | Thane | Gokhale Road-Malhar Cinema Jambli Naka- Lake immersion Point Main Road- Gaondevi Mandir, Naupada Pokhran Road- Vartak Nagar Chowk Wagle Estate- Raila Devi Lake Court Naka Mental Hospital Bedekar Hospital Kalwa- Chatarpati Shivaji Maharaj Hospital |
| 4. | Pune | Shivaji Nagar (Sakhar Sankul) Karve Road (Nul stop) Swar Gate (Tilak Road) Satara Road (Balaji Nagar) Shaniwar Peth (Shanivar Wada) Yerawada (Near Gunjan Theatre) Laxmi Road (Shagun Chowk) Kothrud (Near Shivaji Putala) Mahatma Phule Madai (Near Mandai) Sarus Baug (Mitra Mandal Chowk) Hadapsar (Nera Bhaji Mandai) Parvati Koregaon Park Khadaki (Near Bazar) M G Road (Babajan Chowk) University Road Chowk |

| Sr. No. | City | Location name (details) |
|---------|------------|---|
| | | Aundh Parihar Chawk |
| | | Thergaon (Dange Chowk) |
| | | Navi Sangavi (Krushna Chauk) |
| | | VishrantWadi |
| 5. | Nashik | Nashik Road/ Ramkund on - 15.09.2016 |
| | | Panchvati/ Near Ashok Stambh on - 15.09.2016 |
| | | CBS / Near Gadge Maharaj Statue on - 15.09.2016 |
| | | CIDCO/ River Bank of Waldevi on - 15.09.2016 |
| | | Dahi Pool/ CIDCO (Behind PF Off.) on - 15.09.2016 |
| 6. | Aurangabad | Gulmandi |
| | | City Chowk |
| | | Kranti Chowk |
| | | CIDCO Residential |
| | | Usmanpura |
| 7. | Nagpur | Ramdaspath (KRIMS Hospital) /(Sonegaon lake on - 15.09.2016) |
| | | Cotton Market (Jayshree Talkies) / (Gandhisagar on - 15.09.2016) |
| | | Golibar Chauk / (Futala lake on - 15.09.2016) |
| | | Reshimbag (Saraswati Vidyalaya) / (Sakkardara lake on - 15.09.2016) |
| | | Gandhiputala (Taori TV Showroom) / (Naik lake on - 15.09.2016) |
| 8. | Kalyan | Khadakpada Chawk |
| | | Shivaji Chawk |
| | | Ulhasnagar Station |
| 9. | Amaravati | Bhudhwara |
| | | Rajkamal Square |
| | | Irvin Hospital Square |
| 10. | Jalgaon | Subhash Chowk |
| | | Shashtri Tower Chowk |
| | | Shanipeth Police Station |

| Sr. No. | City | Location name (details) |
|----------------|--------------------------|--|
| 11. | Kolhapur | Rajaram Puri (Near Rajaram Puri) |
| | | Mahalaxmi Mandir |
| | | Khas Baug Maidan (Near Khas Baug Maidan) |
| 12. | Sangli | Miraj Market |
| | | Vishram Baug Chawk |
| | | Gandhi Putala (Ganpati Peth) |
| 13. | Mira-Bhyander | Bhakti Vedant Hospital, Tenkar pada |
| | | Golden police Chawki |
| | | Shivaji Chak Kashi meera |
| 14. | Vasai-Virar | Range office, Satwali, Vasai East |
| | | Valiv phata, Vasai East |
| | | N.B. Estate, Virar West |
| 15. | Ulhasnagar | Gaol Maidan (Commecial & Residentail) |
| | | Doodh Naka, Ulhasnagr sector 5 |
| | | CHM college |
| 16. | Bhiwandi-Nizampur | Dhamankar Naka |
| | | Indira Gandhi Memorial Hospital |
| | | Shelar Near Nadi naka |
| 17. | Chnadrapur | Govt. Hospital |
| | | Gandhi Square |
| | | Jatpura Gate |
| 18. | Nanded-Waghala | Ganesh Nagar, Municipal Corpartion, Nanded |
| | | Shivaji Nagar |
| | | Shree Guru Govindsing Govt. Medical College & Hospital, Shivaji Putala, Nanded |
| 19. | Ahmednagar | Kotala Chawk |
| | | Chitale Road |
| | | Old Bus Stand |
| 20. | Dhule | Agrasen Chawk |

| Sr. No. | City | Location name (details) |
|---------|------------------|---|
| | | Fulwala Chawk |
| | | Santoshi Mata Chawk |
| 21. | Malegaon | Mosampur |
| | | Satana Naka |
| | | Malegaon Camp |
| 22. | Pimpri-Chinchwad | Chaphekar Chawk, Chinchwad Gaon |
| | | Shanti Nagar (Pimri) |
| | | Bosari Gaonthan |
| 23. | Parbhani | Shivaji Chawk |
| | | Shivaji Maharaj Putala, (near S.P. Office) |
| | | Raigad Corner, Jintur road |
| 24. | Latur | Ganjgolai |
| | | Kesharaj High school, Sham nagar, Amba Jogai Road |
| | | Adarsh Colony, Ausa Road |
| 25. | Akola | Collector Office |
| | | Civil line Chawk / Ratanlal plot |
| | | City Kotawali Chawk near police station |
| 26. | Solapur | Balives |
| | | Ashok Chowk |
| | | Hotgi and Vijapur road |
| | | Saat Rastta Railway Station |

ANNEXURE II

Annexure II - Sound Level Meter

MS 6701, Type II



ANNEXURE III

Annexure III - Noise Pollution (R & C) Rules, 2000 amendment dt. 21st April 2009

ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २०००
ची प्रभावीपणे अंमलबजावणी करण्यासाठी
प्राधिकरणाची नियुक्ती करण्याबाबत

महाराष्ट्र शासन

पर्यावरण विभाग, मंत्रालय,

शासन निर्णय क्रमांक : ध्वनीप्र-२००९/प्र.क्र.९५/तांक-१

नविन प्रशासन भवन, १५ वा मजला, मादाम कामा रोड, मुंबई - ४०० ०३२

दिनांक: २१ एप्रिल, २००९

- वाचा - १) शासन निर्णय क्रमांक : ध्वनीप्र-२०००/प्र.क्र.२४/तांक ३, दिनांक १६ ऑगस्ट, २००० आणि दिनांक १५ जून, २००१
२) मे. उच्च न्यायालयाच्या मुंबई खंडपीठामध्ये दाखल करण्यात आलेल्या सार्वजनिक हिताच्या याचिका क्र. (१) २०५३/२००३, (२) ७४/२००७, (३) ८५/२००७ आणि (४) १/२००९ मधील दिनांक २६/२/२००९ चे आदेश

प्रस्तावना :-

पर्यावरण विभाग, शासन निर्णय क्र. एन.पी./२०००/२४/क्र.३, दिनांक १६/८/२००० व दिनांक १५/०६/२००१ रोजी ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० च्या २ (क) नुसार, राज्यातील पोलीस आयुक्त असलेल्या शहरामध्ये पोलीस उप आयुक्त व इतर ठिकाणी जिल्हा पोलीस अधीक्षक यांना एक सदस्य प्राधिकरण म्हणून ध्वनी प्रदूषण नियमाची अंमलबजावणी करण्यासाठी नियुक्ती करण्यात आली आहे.

मा. उच्च न्यायालय, मुंबई खंडपीठाने वरील याचिकांमध्ये महाराष्ट्र शासन व इतर विभागांनी ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० ची प्रभावी अंमलबजावणी करण्याकरीता दिनांक २६/२/२००९ रोजी ठराविक निर्देश दिलेले आहेत. त्यानुसार स्थानिक स्वराज्य संस्थांनी शहरी भागात शांतता झोन जाहीर करणे आवश्यक आहे.

शासन निर्णय :-

१) मा. उच्च न्यायालयाच्या आदेशानुसार तसेच ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० च्या कलम ३ (५) नुसार स्थानिक स्वराज्य संस्थांनी शहरी भागात शांतता झोन त्वरीत जाहिर करून योग्य ते आदेश काढावेत. तसेच शहरात शांतता झोनचे फलक लावून आदेशाची प्रभावी अंमलबजावणी करण्यासाठी योग्य ती प्रसिध्दी करावी.

- १) शैक्षणिक संस्थांच्या सभोवताली १०० मीटर क्षेत्र
- २) सर्व न्यायालयांच्या सभोवतीली १०० मीटर क्षेत्र
- ३) रुग्णालयांच्या सभोवताली १०० मीटर क्षेत्र

२) ध्वनी प्रदूषणाची वाढती पातळी व निरनिराळे प्रदूषण स्रोत विचारात घेता, शासनाच्या निरनिराळ्या विभागांनी सद्यःस्थितीत ते राबवीत असलेल्या नियमाद्वारे ध्वनी प्रदूषण नियंत्रण व नियमनाची अंमलबजावणी करावी. त्याकरिता परिशिष्ट १ मध्ये नमूद केल्याप्रमाणे, शासनाच्या संबंधित विभागांच्या अधिपत्याखालील संस्थांच्या अधिकाऱ्यांना पदनाम प्राधिकरण म्हणून जाहीर करण्यात येत आहे. याबाबत संबंधीत

रोटा/एच-०१००[५००-५-२००९]-१

विभागांनी स्वतंत्र आदेश निर्गमित करावेत. सदर प्राधिकरण, ते राबवित असलेल्या नियमांच्या तरतुदीनुसार तसेच ध्वनी प्रदूषण (नियंत्रण व नियमन) नियम, २००० च्या तरतुदीनुसार ध्वनी प्रदूषण नियंत्रण व नियमनाची कार्यवाही करण्यास सक्षम असेल.

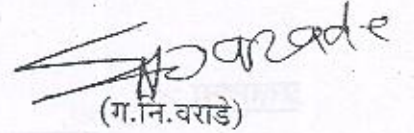
A.

३) ध्वनी प्रदूषण करणारे उपकरणे / स्रोत जसे D.G. Sets (15-500 KVA); Coal Washeries ; Fire Crackers Generator Sets with Diesel (upto 1000 KVA) manufactured on or after 1st July, 2003 ; Vehicles a manufacturing stage from the year, 2003 and 1st April, 2005 respectively as well as Noise Limits for Automobiles and Domestic appliances and construction equipments at the manufacturing stage laid down under the provisions of the Environment (Protection) Act, 1986 and Rules made there under इत्यादीची, सभोयतालच्या हवेतील ध्वनी प्रदूषण गुणवत्तेच्या विहित मर्यादा परिशिष्ट २ मध्ये नमूद केल्याप्रमाणे असेल.

४) या शासन निर्णयान्वये, पर्यावरण विभागाने यापूर्वी दिनांक १६ ऑगस्ट, २००० आणि दिनांक १५ जून, २००१ रोजी या विषयाबाबत निर्गमित केलेला शासन निर्णय खारीज करण्यात येत आहे. हा शासन निर्णय निर्गमित झाल्याच्या दिनांकापासून लागू राहील.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने.

B.


(ग.नि.वराडे)

संचालक (पर्यावरण)

प्रत माहितीसाठी :-

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मा.उपमुख्यमंत्र्यांचे प्रधान सचिव

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सर्व मा. मंत्री / राज्यमंत्री यांचे खाजगी सचिव

सर्व जिल्हाधिकारी

सर्व पोलीस आयुक्त / उप आयुक्त

सर्व जिल्हा पोलीस अधिक्षक / उप अधिक्षक

पर्यावरण विभाग सर्व अधिकारी / कार्यासन / निवडनस्ती - तांक १

परिशिष्ट - १

एच-०१०० -१३

ध्वनी प्रदूषण व नियमन व नियंत्रणाची अंमलबजावणी करण्यासाठी शासनाच्या अधिपत्याखाली असलेल्या संस्थांमधील संबंधीत अधिका-याची पदनाम प्राधिकरण म्हणून नियुक्ती

| Sr. No | Officer /Agency | Concerned Department | Duties |
|--------|--|--|--|
| 1. | District Magistrate, Sub-Divisional Magistrate, | Revenue | Corresponding Rules for the enforcement of the Noise Pollution Control measures within their respective jurisdiction. |
| 2. | Police Commissioner or any other officer not below the rank of the Deputy Superintendent of Police designated for the maintenance of Ambient Air Quality Standards, as mentioned in the Rule 2(c) of Noise Pollution(Regulation and Control) Rules, 2000. | Home | The Police Authorities will be responsible for initiating further legal actions in respect of the violations.. |
| 3. | Municipal Commissioner, Additional/Deputy Municipal Commissioner/ Chief Officer of Municipal Council/Committee Govt. of Maharashtra not below the rank of the Deputy Superintendent of Police. | Urban Development | <p>Corresponding Rules for the enforcement of noise standards laid down under the Environment (Protection) Rules, 1986 at source for construction projects, utilities for buildings (ACs, DG sets etc.), domestic appliances, development and other activities in their jurisdiction.</p> <p>The urban local bodies shall be responsible for demarcation of the silent zones as per the Noise Rules, 2000 and displaying the same adequately.</p> <p>The urban local bodies shall include an Action Plan for noise control in the Environmental Status Report submitted by them annually, including noise monitoring and noise mapping studies.</p> <p>The Local Body and Urban Development Deptt., Govt. of Maharashtra will not grant any permissions for development activities in consistent with or in conflict with the categorization of zone. In case of overlapping zones, stringent standards will prevail over in that particular area.</p> |
| 4. | Registrar /Head Master of the Educational Institutions duly approved by the concerned Government not below the rank of the Deputy Superintendent of Police | Higher & Technical Education/ School Education | Corresponding Rules for the enforcement and maintenance of the Ambient Noise Standards laid down for domestic appliances, automobiles etc. in respect of any activity in its jurisdiction. |
| 5. | Dean/Superintendent of the Government Hospitals not below the rank of the Deputy Superintendent of Police | Public Health | Corresponding Rules for the enforcement and maintenance of the Ambient Noise Standards laid down for domestic appliances, automobiles etc. in respect of any activity in its |

| | | | |
|----|---|-----------------------------|--|
| 6. | Head of M.M.R.D.A., M.S.R.D.C., C.I.D.C.O., having local jurisdiction constituted under various Laws and Public Works Department. | Urban Development | <p>jurisdiction.</p> <p>Corresponding Rules for the enforcement and maintenance of Noise Standards laid down under the Environment (Protection) Rules, 1986 at source for construction projects, utilities for buildings (ACs, DG sets etc.), domestic appliances, development and other activities in their jurisdiction</p> <p>These Developmental Authorities should include adequate noise abatement measures in their project activities such as noise barriers to the bridges and flyovers, tree plantation for roads etc.</p> |
| 7. | Member Secretary and any officer Maharashtra Pollution Control Board not below the rank of the Deputy Superintendent of Police | Environment Department | <p>(i) Monitoring of Ambient Noise Levels in case of specific requests from other authorities referred in the table and communicating the results to the respective Authorities for further necessary action at their end.</p> <p>(ii) For the enforcement of Noise Pollution Control Measures and Standards in industrial areas.</p> |
| 8. | <p>(i) Any officer from the State Transport Department / Deputy Regional Transport Officer in their respective jurisdiction not below the rank of the Deputy Superintendent of Police</p> <p>(ii) Head of Maharashtra State Road Transport Corporation or any officer/ Depot Manager not below the rank of the Deputy Superintendent of Police.</p> <p>(iii) Traffic Police Authorities not below the rank of the Deputy Superintendent of Police</p> | Home Department (Transport) | <p>Enforcement and maintenance of the Noise Standards laid down under Environment (Protection) Rules, 1986 and Motor Vehicles Act, 1939 for the new and operating vehicles within their respective jurisdiction.</p> <p>The noise levels generated by the in-use vehicles should be monitored while grant of Pollution Under Control Certificate.</p> |

परिशिष्ट- २

Schedule
(Under rule 3(1) and 4(1)) of Noise Pollution (Control and Regulation) Rules, 1999

Ambient Air Quality Standards in respect of Noise

| Area Code | Category of Area/Zone | Limits in dB(A) Leq* | |
|-----------|-----------------------|----------------------|------------|
| | | Day Time | Night Time |
| (A) | Industrial Area | 75 | 70 |
| (B) | Commercial Area | 65 | 55 |
| (C) | Residential Area | 55 | 45 |
| (D) | Silence Zone | 50 | 40 |

- i. Day time shall mean from 6.00 a.m. to 10.00 p.m.
- ii. Night time shall mean from 10.00 p.m. to 6.00 a.m.
- iii. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institutions and courts. The silence zones are zones which are declared as such by the competent authority.
- iv. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A" , in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq : it is an energy mean of the noise level, over a specified period.

2. Standards / Guidelines for control of Noise Pollution from Stationary Diesel Generator (DG) Sets.

(A) Noise Standards for DG sets (15-500 KVA)

The total sound power level, L_w of a DG set should be less than, $94+10 \log_{10} (KVA)$, dB(A), at the manufacturing stage, where, KVA is the nominal power rating of a DG set. This level should fall by 5 dB(A) every five years, till 2007, i.e. in 2002 and then in 2007

(B) Mandatory acoustic enclosure/acoustic treatment of room for stationary DG sets (5KVA and above).

Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.

The acoustic enclosure / acoustic treatment of the room should be designed for minimum 25 dB (A) Insertion Loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under such circumstances, the performance may be checked for noise reduction upto actual ambient noise level, preferably in the night time). The measurement for Insertion Loss may be done at different points at 0.5 m from the acoustic enclosure/room, and then averaged.

The DG set should also be provided with proper exhaust muffler with insertion loss of minimum 25dB (A).

- A. (C) **Guidelines for the manufacturers/users of DG sets (5 KVA and above).**
01. The manufacturer should offer to the user a standard acoustic enclosure of 25 dB(A) Insertion Loss and also a suitable exhaust muffler, with Insertion Loss of 25 dB(A).
 02. The user should make efforts to bring down the noise levels due to the D.G. set, outside his premises, within the ambient noise requirements by proper siting and control measures.
 03. The manufacturer should furnish noise power levels of the unsilenced DG sets as per standards prescribed under (A).
 04. The total sound power level of a D.G. set, at the user's end, shall be within 2 dB(A) of the total sound power level of the DG set, at the manufacturing stage as prescribed under (A).
 05. Installation of a DG set must be strictly in compliance with the recommendations of the DG set manufacturer.
 06. A proper routine and preventive maintenance procedure for the DG set should be set and followed in consultation with the DG set manufacturer, which would help to prevent noise levels of the DG set from deteriorating with use.

3. Noise Level Standards for Coal Washeries

Operational / Working Zone -- not to exceed 85 dB(A) Leq for 8 hours exposure.

The Ambient Air Quality Standards in respect of noise as notified under Environment (Protection) Rules, 1986 shall be followed at the boundary line of the coal washery.

Code of Practice of Coal Washery

Water or Water mixed chemical shall be sprayed at all strategic coal transfer points such as conveyors, loading/unloading points etc. As far as practically possible conveyors, transfer points etc. shall be provided with enclosures.

- * The crushers/pulverizers of the coal washeries shall be provided with enclosures, fitted with suitable air pollution control measures and finally emitted through a stack of minimum height of 30m, conforming particulate matter emission standards of 150 mg/Nm³ or provided with adequate water sprinkling arrangement.
- * Water sprinkling by using fine atomizer nozzles arrangement shall be provided on the coal heaps and on land around the crushers/pulverisers.
- * Area, in and around the coal washery shall be pucca either asphalted or concreted.
- * Water consumption in the coal washery shall not exceed 1.5 cubic meter per tonne of coal.
- * The efficiency of the settling ponds of the waste water treatment system of the coal washery shall not be less than 90%.
- * Green belt shall be developed along the road side, coal handling plants, residential complex, office building and all around the boundary line of the coal washery.
- * Storage bunkers, hoppers, rubber decks in chutes and centrifugal chutes shall be provided with proper rubber linings.

* Vehicles movement in the coal washery area shall be regulated effectively to avoid traffic congestion. High pressure horn shall be prohibited. Smoke emission from heavy duty vehicle operating in the coal washeries should conform the standards prescribed under Motor Vehicle Rules, 1989.

4. Noise Standards for fire-crackers

A.(i) The manufacturer, sale or use of fire-crackers generating noise level exceeding 125 dB(A) or 145 dB(C)_{pk} at 4 meters distance from the point of bursting shall be prohibited.

(ii) For individual fire-cracker constituting the series (joined fire crackers), the above mentioned limit be reduced by $5 \log_{10} (N)$ dB, where N=Number of crackers joined together.

B. The broad requirements for measurement of noise from fire-crackers shall be-

(i) The measurements shall be made on a hard concrete surface of minimum 5 meter diameter or equivalent.

(ii) The measurement shall be made in free field conditions i.e., there shall not be any reflecting surface upto 15 meter distance from the point of bursting.

(iii) The measurement shall be made with an approved sound level meter.

C. The Department of Explosives shall ensure implementation of these standards.

5. Noise Limits for Generator Sets run with diesel

Noise limit for diesel generator sets (upto 1000 KVA) manufactured on or after 1st July, 2003

The maximum permissible sound pressure level for new diesel generator (DG) sets with rated capacity upto 1000 KVA, manufactured on or after the 1st July, 2003 shall be 75 dB(A) at 1 meter from the enclosure surface.

The diesel generator sets should be provided with integral acoustic enclosure at the manufacturing stage itself.

The implementation of noise limit for these diesel generator sets shall be regulated as given in below mentioned paragraph.

Requirement of certification

Every manufacturer of engine or every importer of engine or product must have valid certificates of Type Approval and certificates of Conformity of Production for each year, for all engine models being manufactured or for all engines or product models being imported, after the effective date with the emission limit as specified in earlier paragraph.

6. (1) Noise limits for vehicles applicable at manufacturing stage
from the year, 2003.

| Sr.No. | Type of Vehicle | Noise Limits dB(A) | Date Implementation of |
|--------|---|--------------------|-------------------------------|
| (1) | (2) | (3) | (4) |
| 1. | Two Wheeler | | 1 st January, 2003 |
| | Displacement upto 80 cm ³ | 75 | |
| | Displacement more than 80 cm ³ but upto 175 cm ³ | 77 | |
| | Displacement more than 175 cm ³ | 89 | |
| 2. | Three Wheeler | | 1 st January, 2003 |
| | Displacement upto 175 cm ³ | 77 | |
| | Displacement more than 175 cm ³ | 80 | |
| 3. | Passenger Car | 75 | 1 st January, 2003 |
| 4. | Passenger or Commercial Vehicles | | 1 st July, 2003 |
| | Gross vehicle weight upto 4 tonnes | 80 | |
| | Gross vehicle weight more than 4 tonnes but upto 12 tonnes | 83 | |
| | Gross vehicle weight more than 12 tonnes | 85 | |

(2) Noise Limits for vehicles at manufacturing stage applicable on and from 1st April, 2005

| Sr.No. | Type of vehicles | Noise Limits |
|--------|--|--------------|
| 1.0 | Two Wheelers | |
| 1.1 | Displacement upto 80 cc | 75 |
| 1.2 | Displacement more than 80 cc but upto 175 cc | 77 |
| 1.3 | Displacement more than 175 cc | 80 |
| 2.1 | Three Wheelers | |
| 2.1 | Displacement upto 175 cc | 77 |
| 2.2 | Displacement more than 175 cc | 80 |
| 3.0 | Vehicles used for the carriage of passengers and capable of having not more than nine seats, including the driver's seat | 74 |
| 4.0 | Vehicles used for the carriage of passengers having more than nine seats including the driver's seat and a maximum Gross Vehicle Weight (GVW) of more than tonnes | |
| 4.1 | With an engine power less than 150KW | 78 |
| 4.2 | With an engine power of 150 KW or above | 80 |
| 5.0 | Vehicles used for the carriage of passengers having more than nine seats including the driver's seat: Vehicle used for the carriage of goods. | |
| 5.1 | With a maximum GVW not exceeding 2 tonnes | 76 |
| 5.2 | With a maximum GVW greater than 3 tonnes but not exceeding 3.5 tonnes | 77 |
| 6.0 | Vehicles used for the transport of goods with a maximum GVW exceeding 3.5 tonnes | |
| 6.1 | With an engine power less than 75 KW | 77 |
| 6.2 | With an engine power of 75 KW or above but less than 150KW | 78 |
| 6.3 | With an engine power of 150 KW or above | 80 |

7. Noise Standards Part E:-

A. Noise limits for Automobiles (Free Field Distance at 7.5 meter in dB(A) at the manufacturing stage.

| | | |
|-----|--|----|
| (a) | Motorcycle, Scooters and Three Wheelers | 80 |
| (b) | Passenger Cars | 82 |
| (c) | Passenger or Commercial vehicles upto 4 MT | 85 |
| (d) | Passenger or Commercial vehicles above 4 MT and Upto 12 MT | 89 |
| (e) | Passenger or Commercial vehicles exceeding 12 MT | 91 |

B. Domestic appliances and construction equipments at the manufacturing stage to be achieved by 31st December, 1993.

| | | |
|-----|---|-------|
| (a) | Window Air Conditioners of 1 ton to 1.5 ton | 68 |
| (b) | Air Coolers | 60 |
| (c) | Refrigerators | 46 |
| (d) | Diesel generator of domestic purposes | 85-90 |
| (e) | Compactors (rollers), Front Loaders, Concrete Mixers, Cranes (moveable), Vibrators and Saws | 75 |

ANNEXURE IV

Annexure IV - Hourly Noise Levels on 5th, 6th, 9th, 10th & 15th September 2016 during Ganesh Festival at different locations in Maharashtra

ANNEXURE V

Annexure V - Map of all 26 Municipal Corporation with respective location spotted

Mumbai

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 69.5 | 79.7 | 74.7 | 75.9 | 72.2 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.1 | 74.4 | 74.3 | 68.6 | 79.7 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.5 | 82.1 | 75.2 | 85.8 | 77.7 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 77.5 | 74.3 | 71.9 | 80.1 | 84.4 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.7 | 76.8 | 76.5 | 76.2 | 82.8 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.4 | 78.0 | 78.0 | 76.7 | 76.5 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.5 | 77.6 | 76.0 | 81.5 | 75.3 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 62.9 | 82.8 | 68.5 | 73.1 | 74.6 |

Mumbai



| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 74.4 | 76.2 | 75.0 | 69.9 | 70.5 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 64.7 | 81.2 | 68.6 | 76.9 | 70.0 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 70.3 | 81.9 | 65.7 | 68.1 | 86.3 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 69.9 | 75.7 | 76.7 | 76.0 | 81.8 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 70.2 | 81.1 | 64.5 | 74.3 | 75.7 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.6 | 82.2 | 70.8 | 79.7 | 74.2 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 70.8 | 74.7 | 62.8 | 83.5 | 74.7 |

Mumbai

Mulund

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 67.6 | 73.3 | 74.3 | 78.8 | 72.4 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.0 | 77.4 | 77.1 | 78.8 | 77.4 |

Bhandup
Bhandup West

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.4 | 79.7 | 75.2 | 76.6 | 81.5 |

Vikhroli

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.0 | 83.0 | 70.0 | 76.9 | 76.7 |

Ghatkopar

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 74.2 | 70.6 | 63.3 | 80.6 | 81.5 |

Chembur (W)

Chembur (E)

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.2 | 81.0 | 77.4 | 78.1 | 89.9 |

Kandivali (E)

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.8 | 75.6 | 74.6 | 79.4 | 82.0 |

Andheri East

Mumbai

Kandivali (W)

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 81.5 | 75.9 | 76.3 | 77.1 | 75.1 |

Borivali

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.3 | 79.6 | 80.8 | 75.6 | 74.6 |

Andheri

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.1 | 76.6 | 70.6 | 73.3 | 76.0 |

Andheri West

Gorai 2

Navi Mumbai

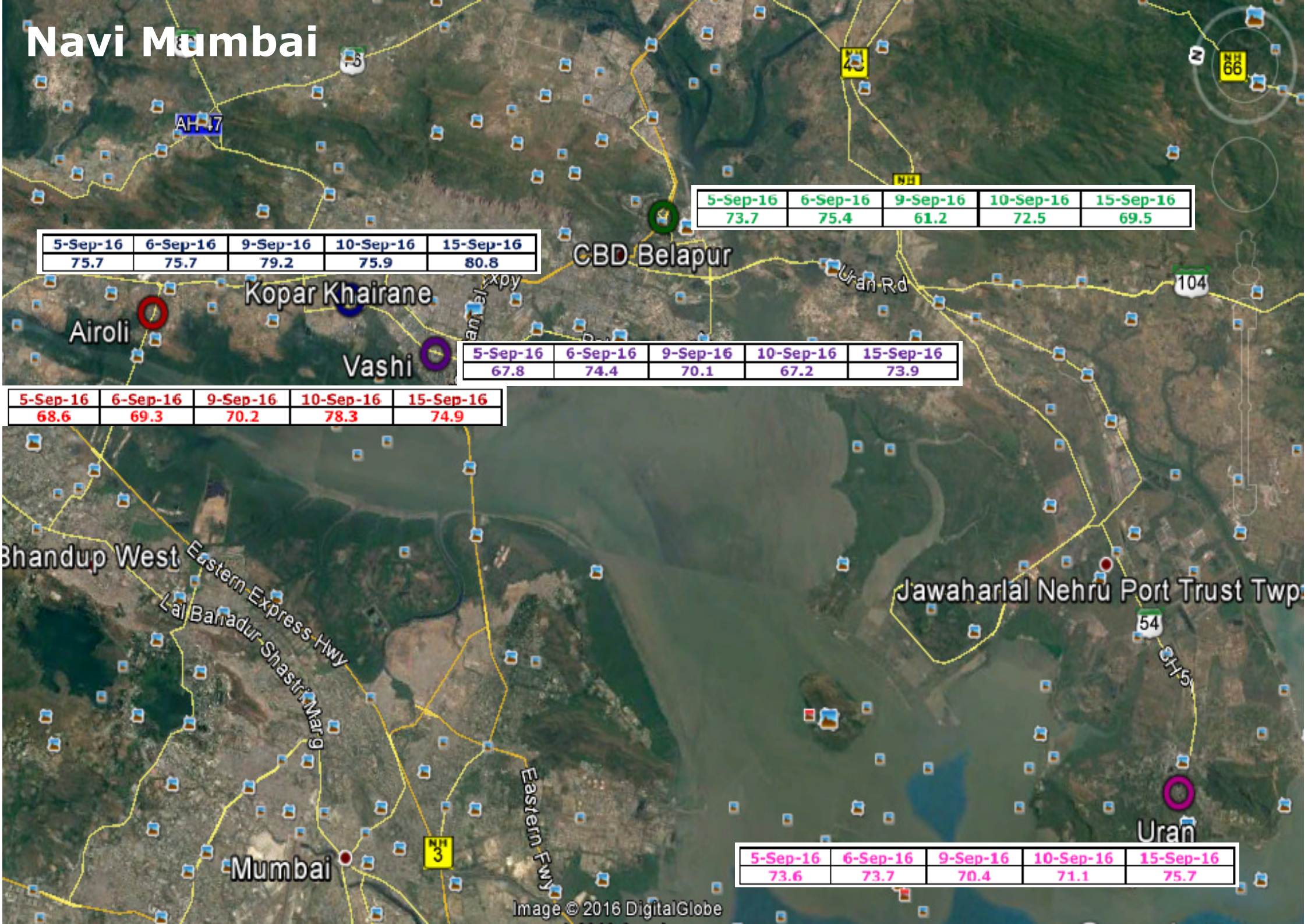
| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.7 | 75.7 | 79.2 | 75.9 | 80.8 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.7 | 75.4 | 61.2 | 72.5 | 69.5 |

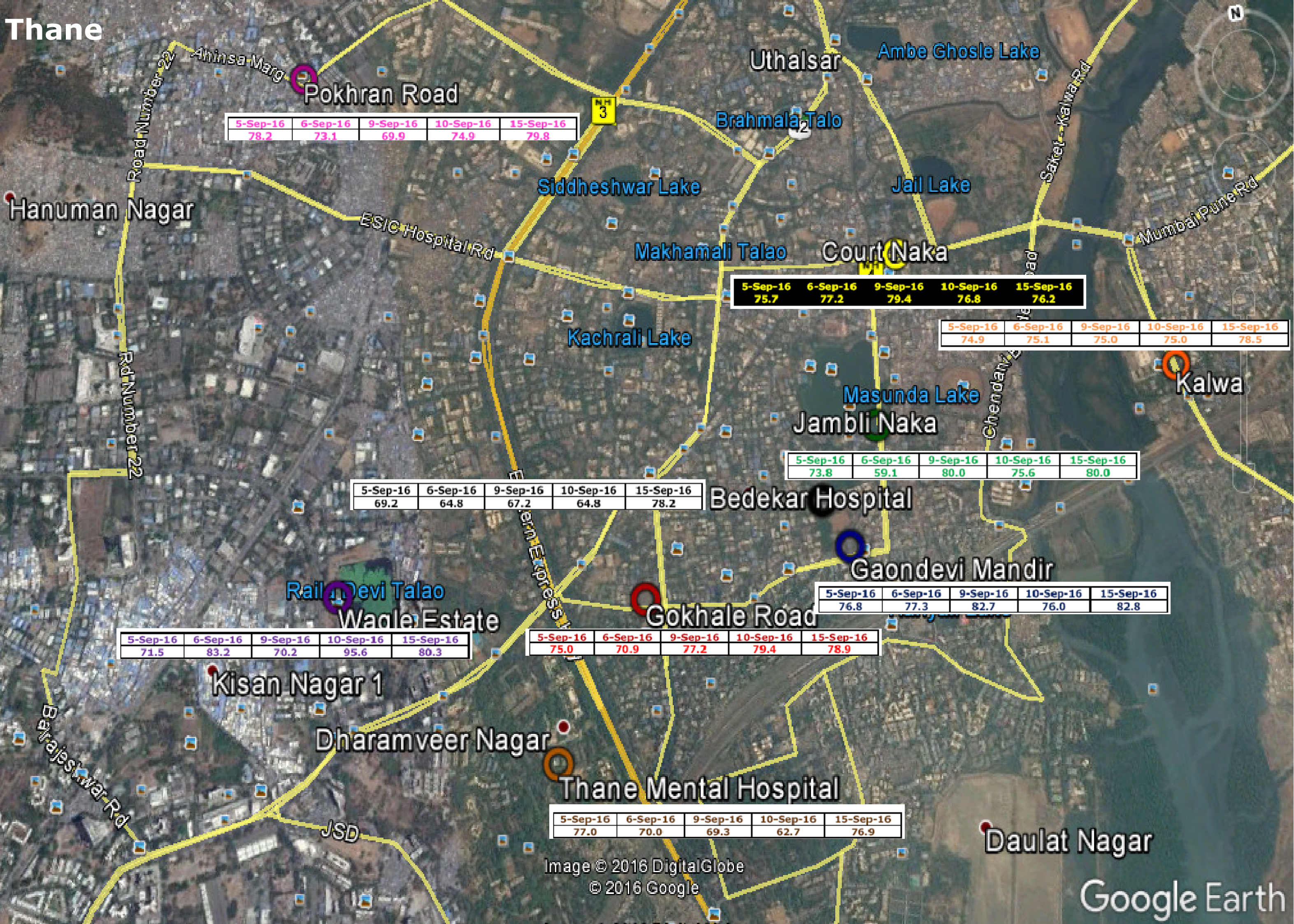
| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 67.8 | 74.4 | 70.1 | 67.2 | 73.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 68.6 | 69.3 | 70.2 | 78.3 | 74.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.6 | 73.7 | 70.4 | 71.1 | 75.7 |



Thane



Rajgurunagar

Shivaji Nagar

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 85.4 | 76.5 | 80.8 | 78.1 | 98.6 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 70.4 | 70.4 | 75.6 | 78.3 | 86.0 |

Kothrude

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 83.8 | 84.4 | 86.6 | 86.0 | 89.6 |

Sarus Baug Hadapsar

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 69.4 | 70.4 | 78.5 | 80.4 | 84.4 |

ArgadeShiwar

Karve Road

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.4 | 89.9 | 86.2 | 80.5 | 94.5 |

Swargate

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.2 | 78.3 | 89.7 | 91.7 | 90.0 |

Chakan

Bordara

Satara Road

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.0 | 78.0 | 90.5 | 83.8 | 90.8 |

Aambethan

Kharabwadi

Kuruli

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 81.0 | 82.4 | 89.8 | 85.0 | 87.1 |

Yerawada

Parvati

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.3 | 77.3 | 89.9 | 78.4 | 91.0 |

Shelu

Mahalunge

Moi

Chakan Shivajipur Rd

NH 50

N

N

N

N

N

N

N

N

Pune

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 71.2 | 75.2 | 82.6 | 78.4 | 78.5 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 74.8 | 77.5 | 78.5 | 79.6 | 89.0 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 80.9 | 81.5 | 82.6 | 84.0 | 85.4 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 77.7 | 70.5 | 75.0 | 80.1 | 87.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 109.3 | 82.4 | 85.0 | 84.4 | 103.8 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 84.2 | 78.2 | 74.3 | 78.6 | 91.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 74.4 | 70.1 | 76.2 | 77.9 | 77.3 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.2 | 78.7 | 89.5 | 87.5 | 76.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 74.4 | 67.7 | 79.7 | 74.1 | 101.0 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.7 | 77.0 | 79.1 | 79.2 | 82.4 |

Nashik

Sneha Nagar

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.2 | 82.4 | 82.0 | 79.7 | 98.4 |

Panchvat

Nashik Rd
Nashik Road

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.9 | 80.2 | 82.3 | 81.6 | 98.2 |

Dahi Pool
Nashik

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.5 | 79.7 | 82.3 | 80.6 | 101.5 |

CBS

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 80.1 | 83.2 | 82.6 | 82.5 | 95.5 |

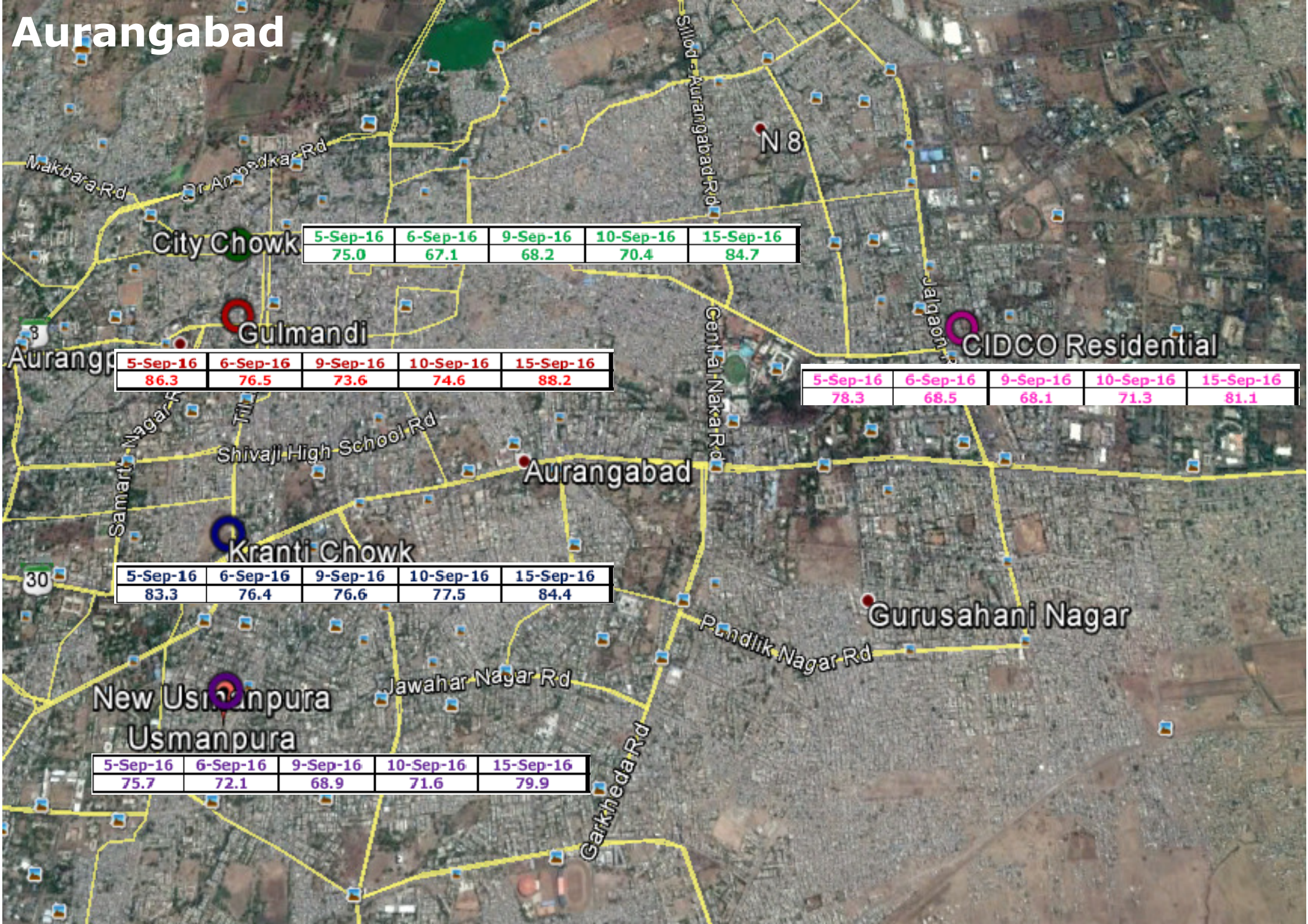
Mahatma Nagar

CIDCO

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.4 | 78.0 | 81.1 | 79.1 | 103.1 |

Pathardi Phata

Aurangabad



Nagpur

Golibar Chauk

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.3 | 75.3 | 75.2 | 75.2 | 80.0 |

Jayshree Talkies

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 71.4 | 71.4 | 72.3 | 73.0 | 76.3 |

Ramdaspeth

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 72.1 | 72.1 | 66.2 | 65.9 | 79.8 |

Reshimbag

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 69.8 | 65.7 | 74.2 | 71.4 | 76.2 |

Ambazari

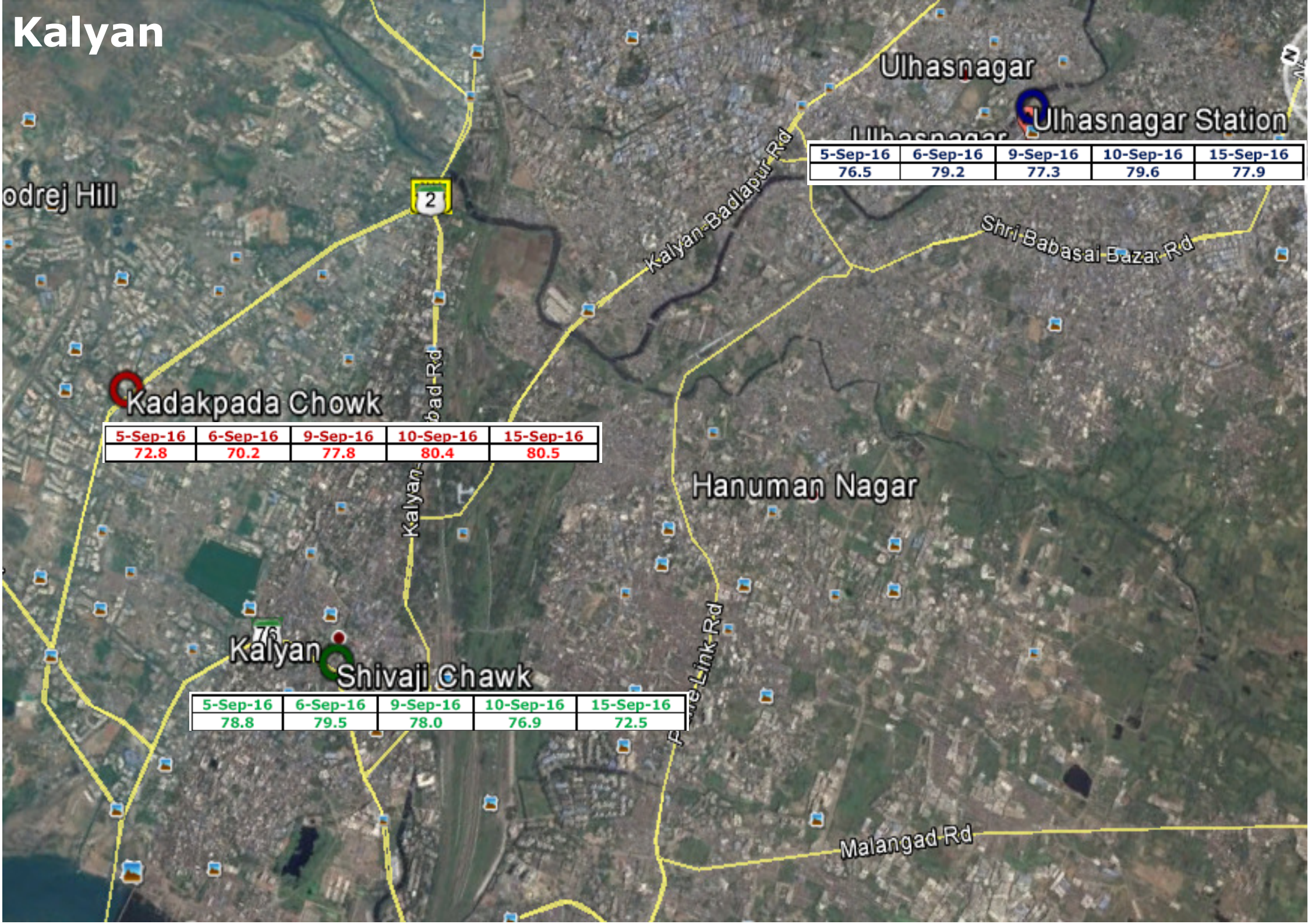
Gandhiputala

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.2 | 67.3 | 69.3 | 67.9 | 84.1 |

Kamala

Dattatray

Kalyan

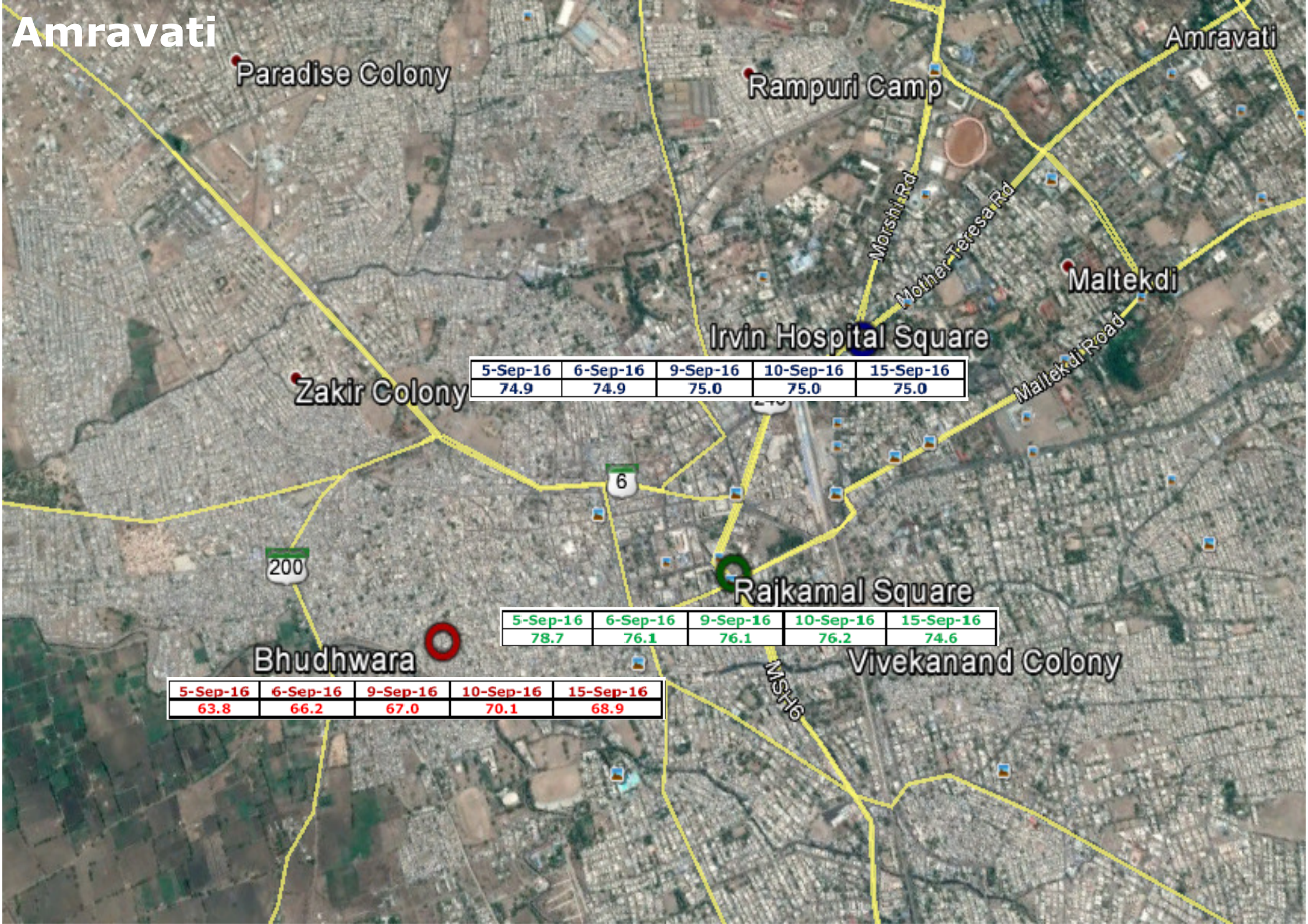


| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.5 | 79.2 | 77.3 | 79.6 | 77.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 72.8 | 70.2 | 77.8 | 80.4 | 80.5 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.8 | 79.5 | 78.0 | 76.9 | 72.5 |

Amravati



Paradise Colony

Rampuri Camp

Amravati

Morshi Rd

Mother Teresa Rd

Maltekdi

Irvin Hospital Square

Maltekdi Road

Zakir Colony

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 74.9 | 74.9 | 75.0 | 75.0 | 75.0 |

6

200

Rajkamal Square

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.7 | 76.1 | 76.1 | 76.2 | 74.6 |

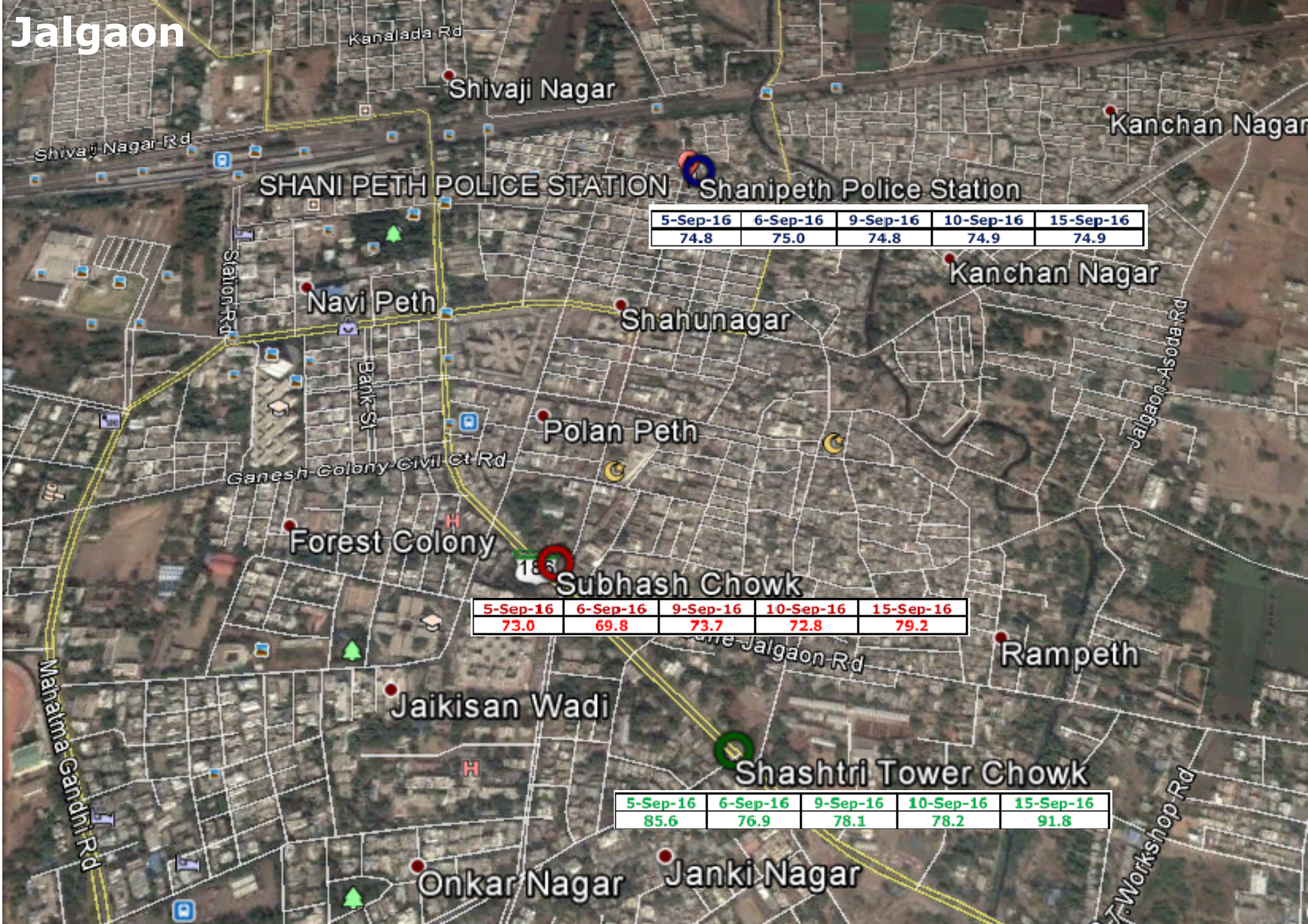
Bhudhwara

Vivekanand Colony

MS 16

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 63.8 | 66.2 | 67.0 | 70.1 | 68.9 |

Jalgaon



SHANI PETH POLICE STATION

Shanipeth Police Station

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 74.8 | 75.0 | 74.8 | 74.9 | 74.9 |

Navi Peth

Shahunagar

Kanchan Nagar

Polan Peth

Forest Colony

Subhash Chowk

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.0 | 69.8 | 73.7 | 72.8 | 79.2 |

Rampeth

Jaikisan Wadi

Shashtri Tower Chowk

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 85.6 | 76.9 | 78.1 | 78.2 | 91.8 |

Onkar Nagar

Janki Nagar

Kolhapur

Samrat Nagar

Rajaram Puri

Takala Lake

Shahupuri

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.7 | 75.6 | 77.1 | 84.3 | 85.9 |

Kotitirth

Shivaji Udyam Nagar

New Shahupuri

Khasbag Maidan

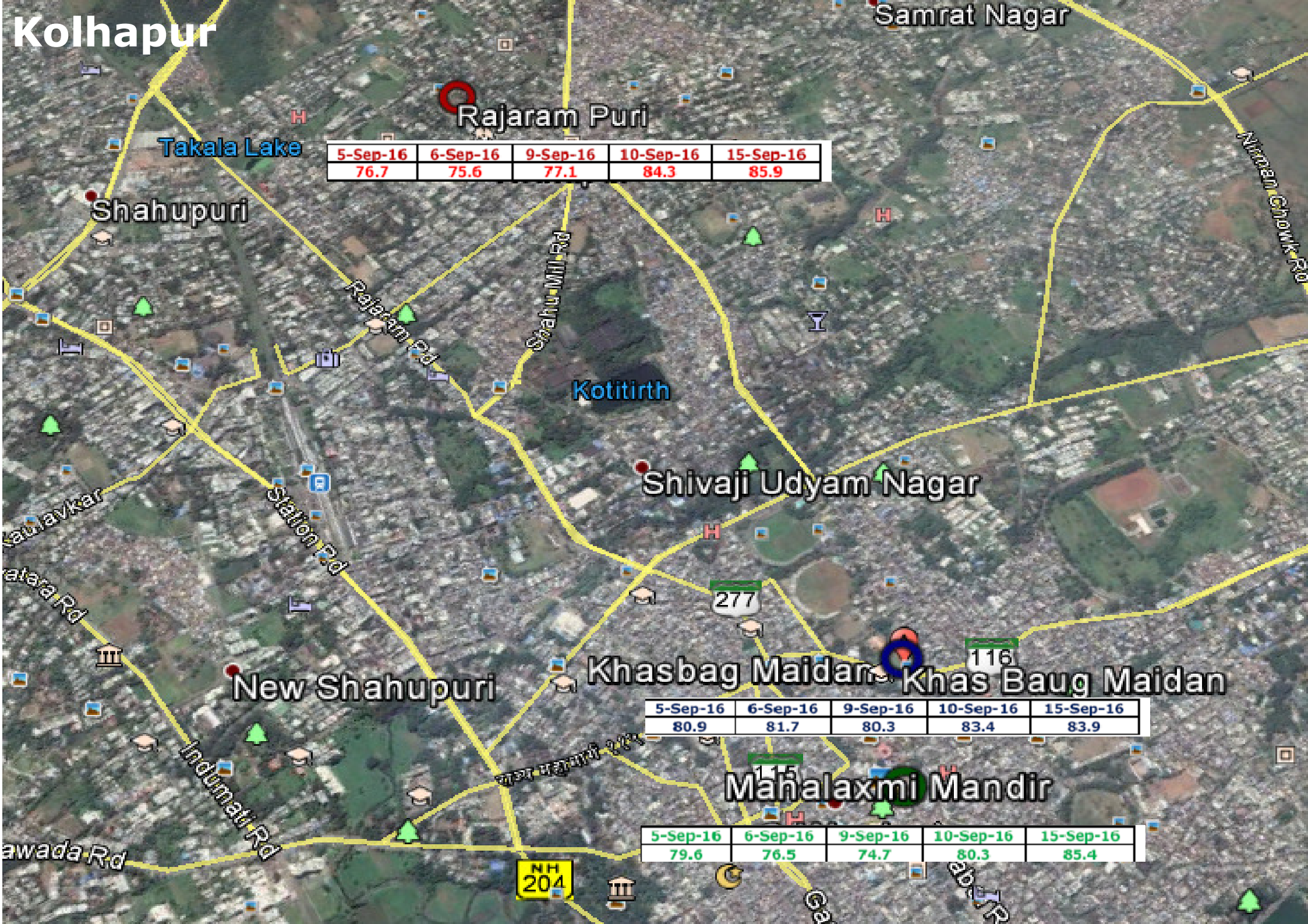
Khas Baug Maidan

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 80.9 | 81.7 | 80.3 | 83.4 | 83.9 |

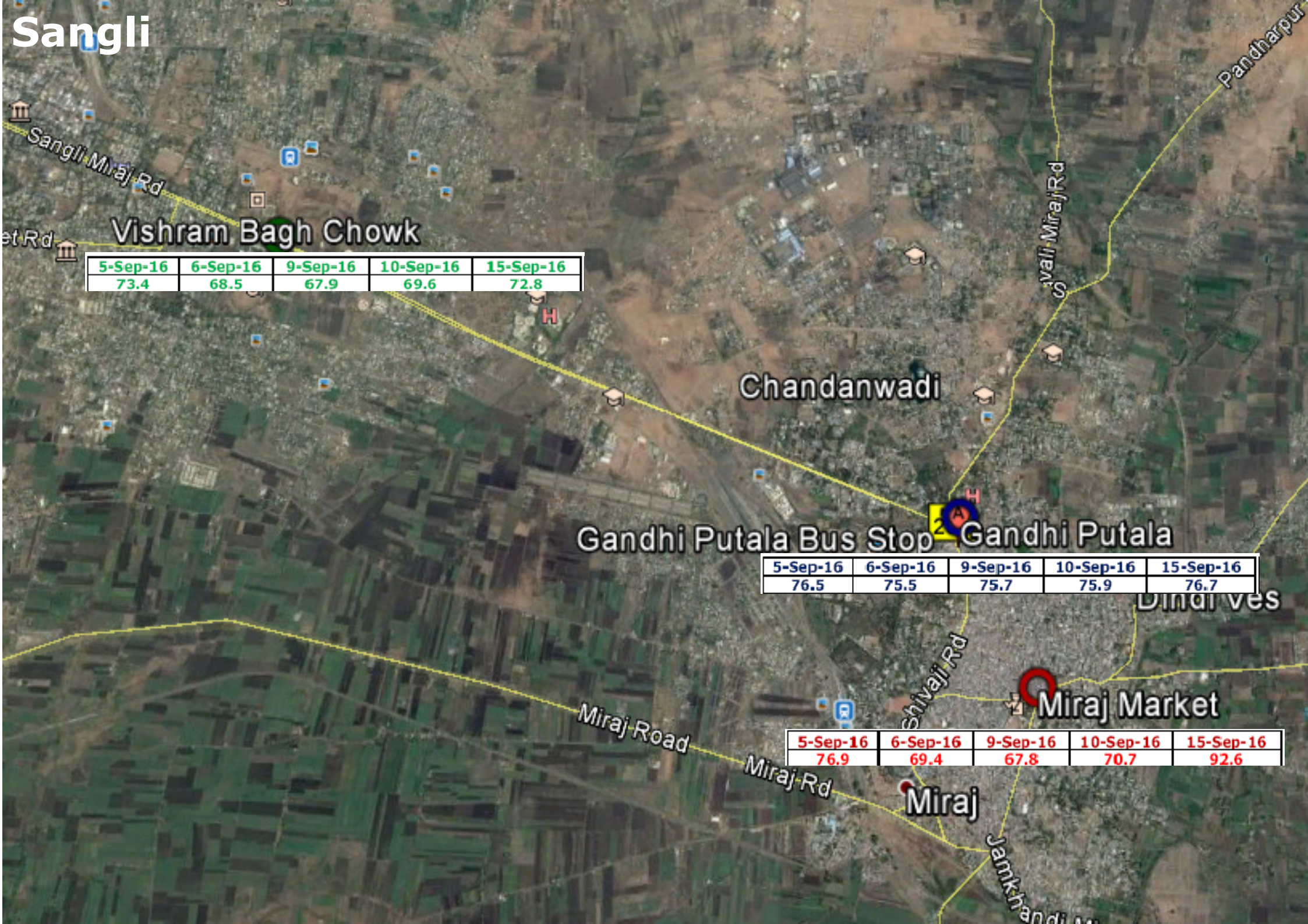
Mahalaxmi Mandir

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.6 | 76.5 | 74.7 | 80.3 | 85.4 |

NH 204



Sangli



Vishram Bagh Chowk

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.4 | 68.5 | 67.9 | 69.6 | 72.8 |

Chandanwadi

Gandhi Putala Bus Stop

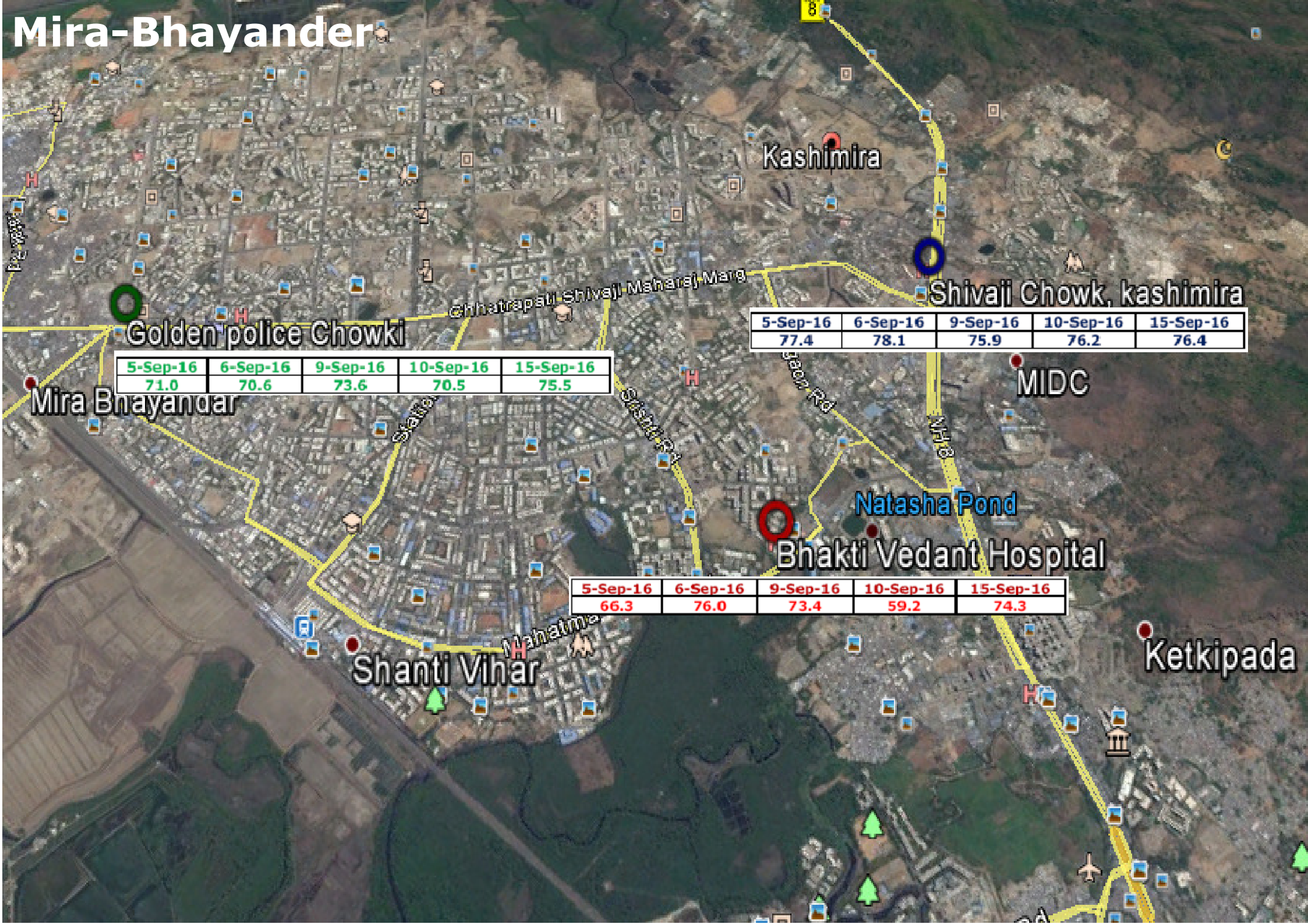
| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.5 | 75.5 | 75.7 | 75.9 | 76.7 |

Miraj Market

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.9 | 69.4 | 67.8 | 70.7 | 92.6 |

Miraj

Mira-Bhayander



| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 71.0 | 70.6 | 73.6 | 70.5 | 75.5 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 77.4 | 78.1 | 75.9 | 76.2 | 76.4 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 66.3 | 76.0 | 73.4 | 59.2 | 74.3 |

Vasai - Virar



Chandansar

Pelhar

Sativali

NH 8

Valiv phata

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.5 | 73.1 | 79.1 | 79.7 | 66.6 |

Bilalpada

Range office

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.5 | 73.3 | 74.2 | 74.1 | 75.1 |

Vasai

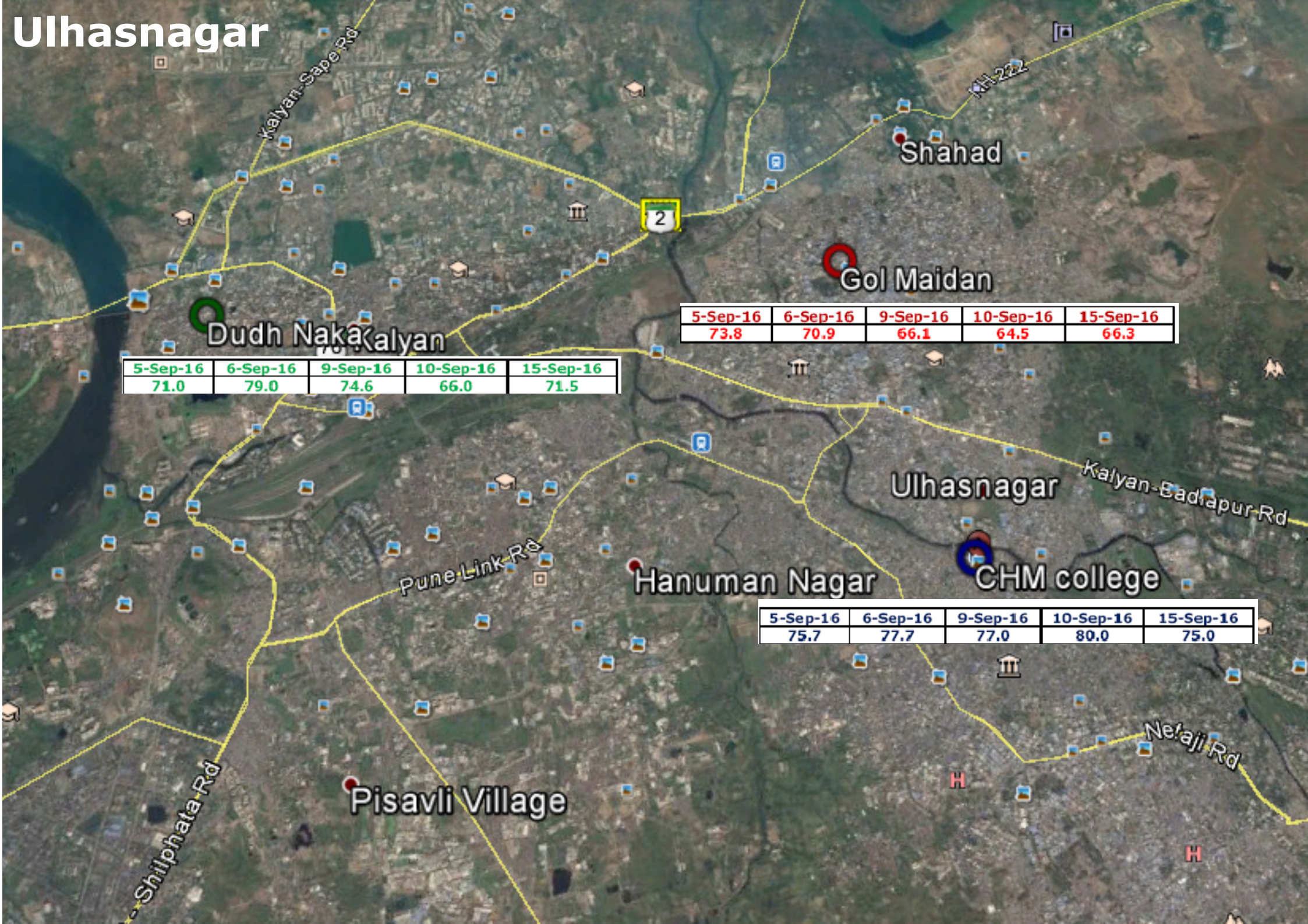
VS Rd

Indian Bank ATM M.B. Estate

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 77.5 | 77.9 | 77.5 | 78.4 | 80.1 |

Nala Sopara

Ulhasnagar



Duddh Naka

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 71.0 | 79.0 | 74.6 | 66.0 | 71.5 |

Gol Maidan

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 73.8 | 70.9 | 66.1 | 64.5 | 66.3 |

Ulhasnagar

CHM college

Hanuman Nagar

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.7 | 77.7 | 77.0 | 80.0 | 75.0 |

Pisavli Village

Bhiwandi Nizampur

Shelar Near Nadi naka

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.2 | 75.7 | 81.1 | 75.0 | 77.3 |

Gokul Nagar

BNCMC

Indira Gandhi Memorial Hospital

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 67.0 | 81.3 | 78.6 | 65.0 | 60.2 |

Dhamankar Naka

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 69.8 | 83.7 | 78.7 | 68.3 | 83.9 |

Bhiwandi

Bhiwandi-Murbad

Chandrapur

Ramala Talav

Jatpura Gate

Jal Nagar Ward

Chandrapur

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 77.7 | 78.0 | 78.9 | 82.4 | 89.0 |

Govt. Hospital

Bhiwapur war

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 69.9 | 66.4 | 70.0 | 68.7 | 84.6 |

Kasturba Rd

Gandhi Square

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 77.8 | 73.8 | 76.2 | 75.9 | 96.9 |

Rehman Nagar Rd

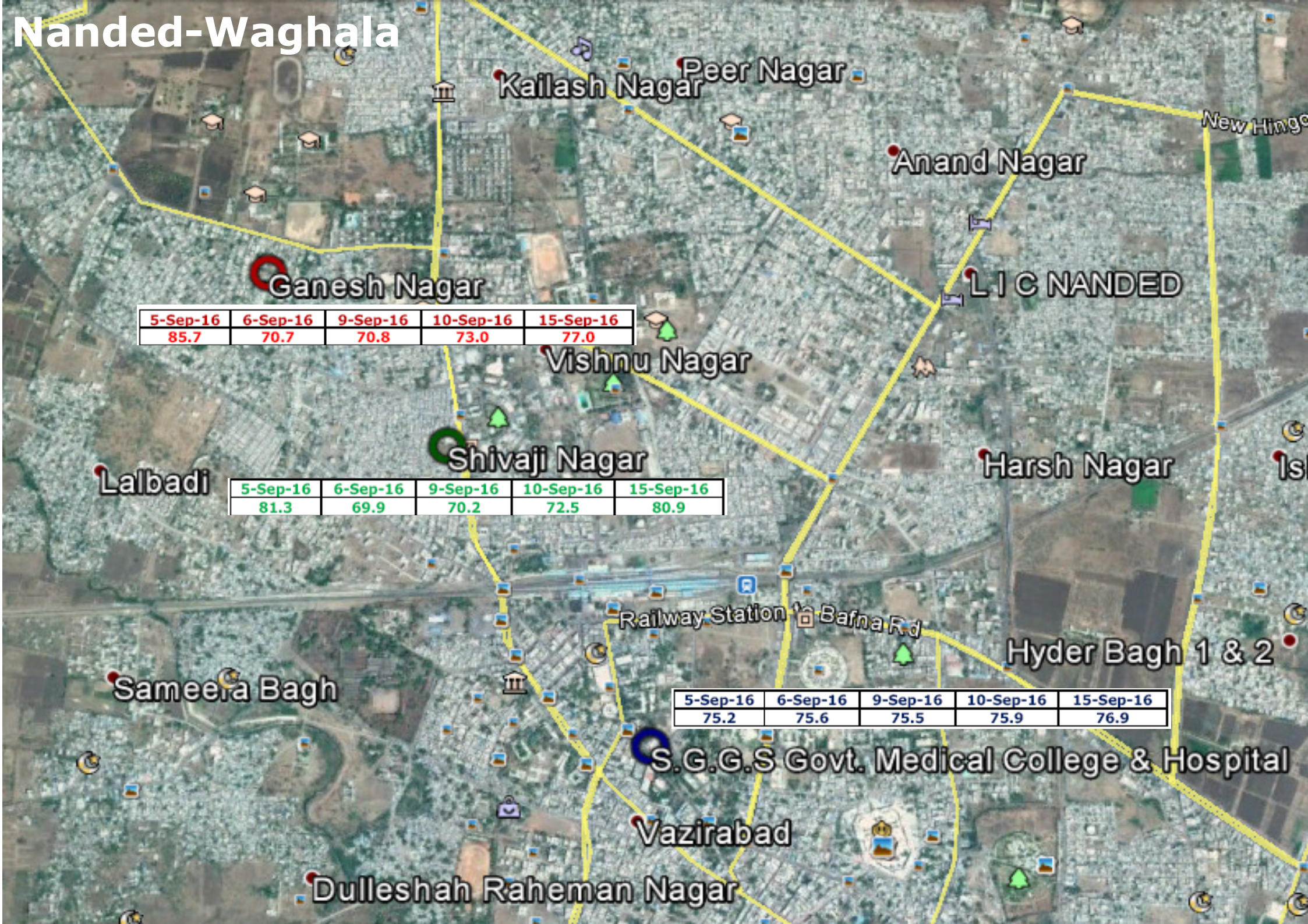
Gokul Galli

Nanded-Waghala

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 85.7 | 70.7 | 70.8 | 73.0 | 77.0 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 81.3 | 69.9 | 70.2 | 72.5 | 80.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.2 | 75.6 | 75.5 | 75.9 | 76.9 |



Ahmednagar

Wadgaon Gupta

Bhistabag

Ahmednagar Ahmednagar

Chitale Road

Old Bus Stand

Arangaon Meherabad Rd

NH 222

Kotala Chowk

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.5 | 82.1 | 77.8 | 77.4 | 100.7 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 84.8 | 81.3 | 77.1 | 78.0 | 101.7 |

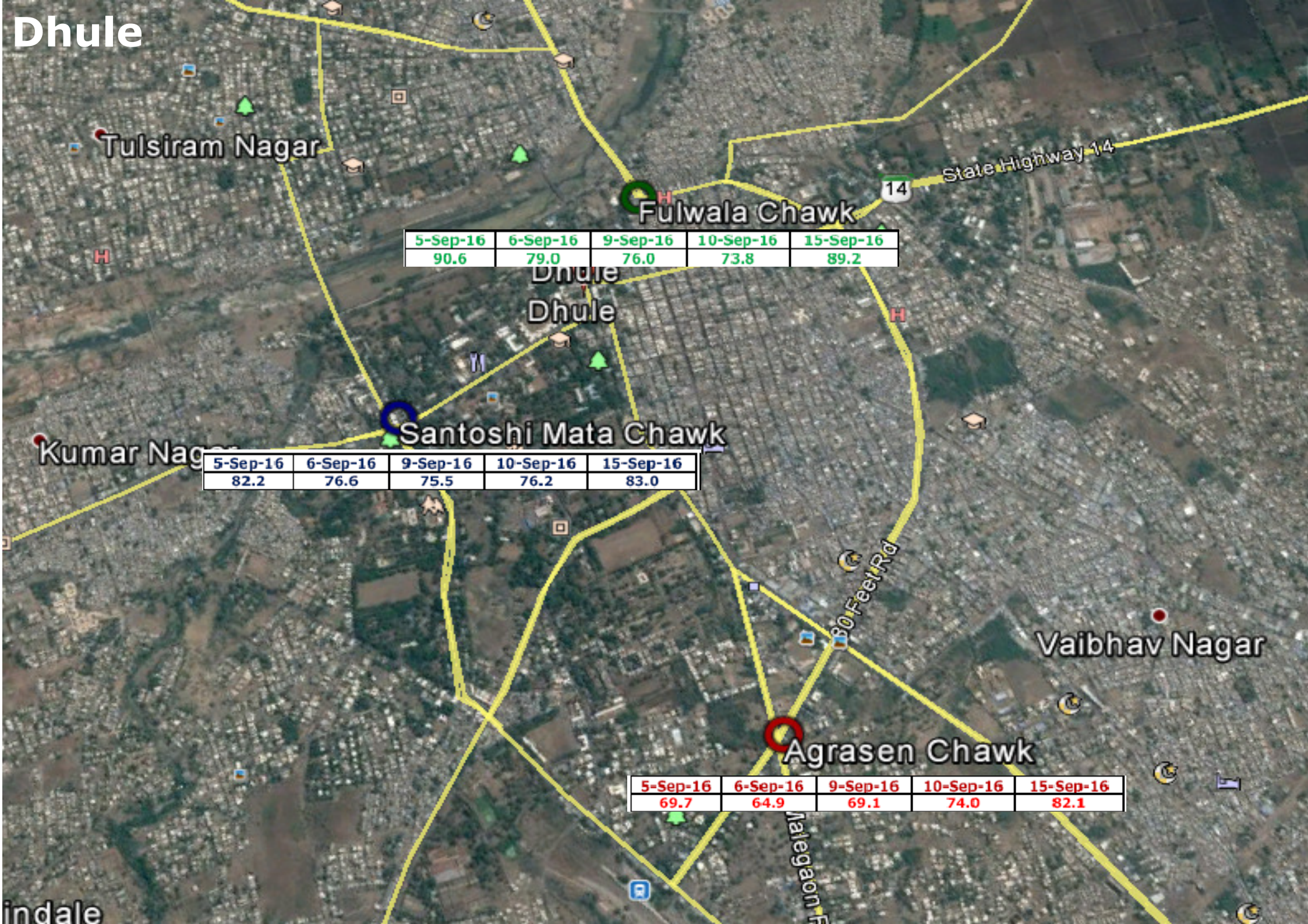
| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 81.5 | 82.2 | 79.0 | 78.6 | 100.6 |

145

2

27

Dhule



| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 90.6 | 79.0 | 76.0 | 73.8 | 89.2 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 82.2 | 76.6 | 75.5 | 76.2 | 83.0 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 69.7 | 64.9 | 69.1 | 74.0 | 82.1 |

Malegaon

Dnyaneshwar Nagar

Malegaon Camp

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.9 | 79.8 | 81.4 | 82.9 | 82.7 |

Malegaon Malegaon

Soygaon Lake

Mosampur

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 85.6 | 74.7 | 79.2 | 79.5 | 84.9 |

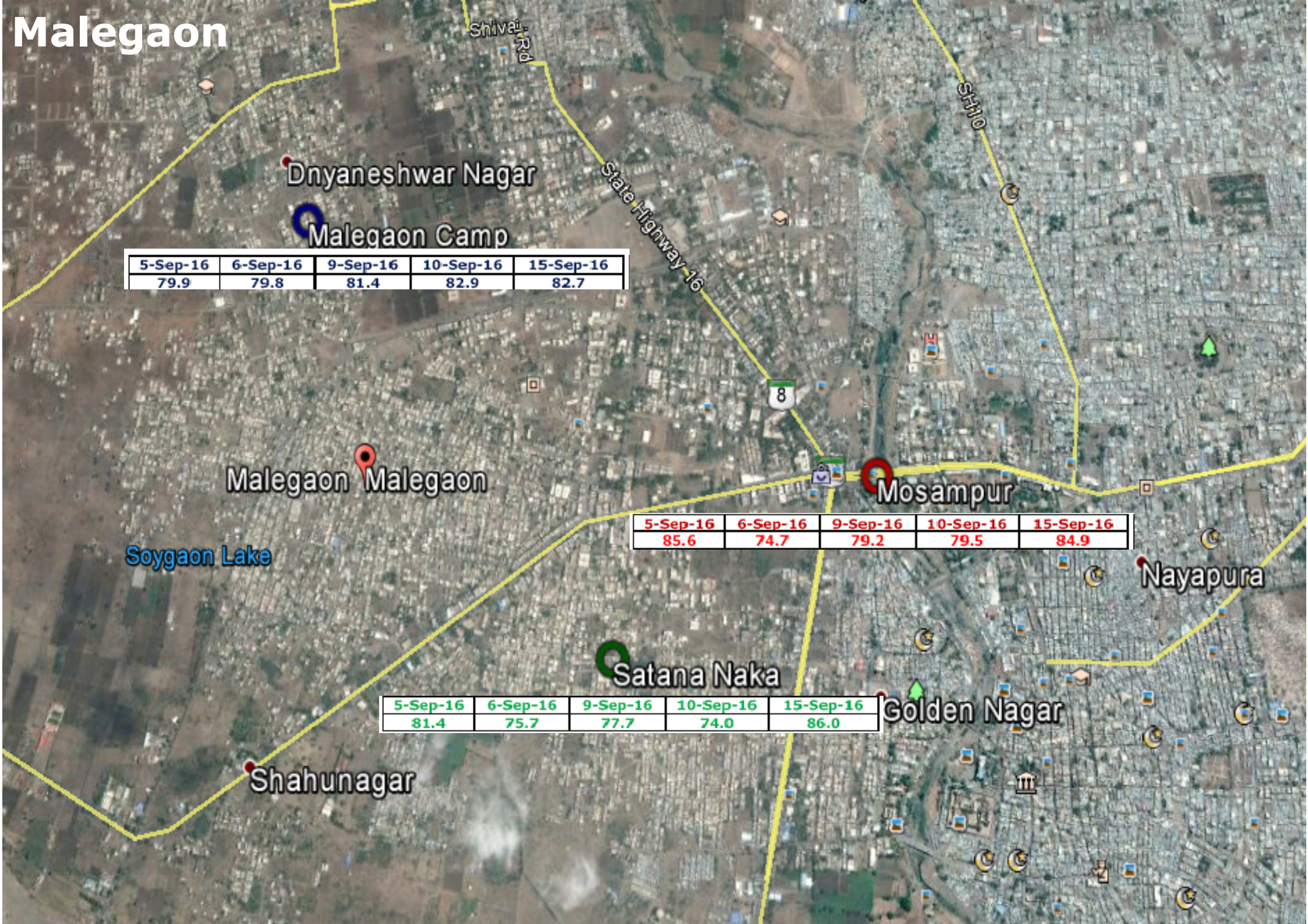
Nayapura

Satana Naka

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 81.4 | 75.7 | 77.7 | 74.0 | 86.0 |

Golden Nagar

Shahunagar



Pimpri-Chinchwad

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.3 | 84.7 | 82.5 | 85.7 | 88.6 |

Bosari Gaonthan

Shanti Nagar

Shastri Nagar

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 71.7 | 73.8 | 79.4 | 75.2 | 104.4 |

Pradhikaran

Pimpri-Chinchwad
Pimpri-Chinchwad

Chaphekar Chawk

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 82.8 | 80.4 | 75.0 | 80.1 | 94.2 |

Prabhani

Dr.Zakir Hussain Nagar

Iqbal Nagar

Jintur road

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 78.2 | 75.6 | 74.4 | 74.3 | 82.1 |

Parbhani
Parbhani

Shivaji Chawk,

Gandhi Park

Shivaji Maharaj Putala

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 80.6 | 74.3 | 72.6 | 73.2 | 84.7 |

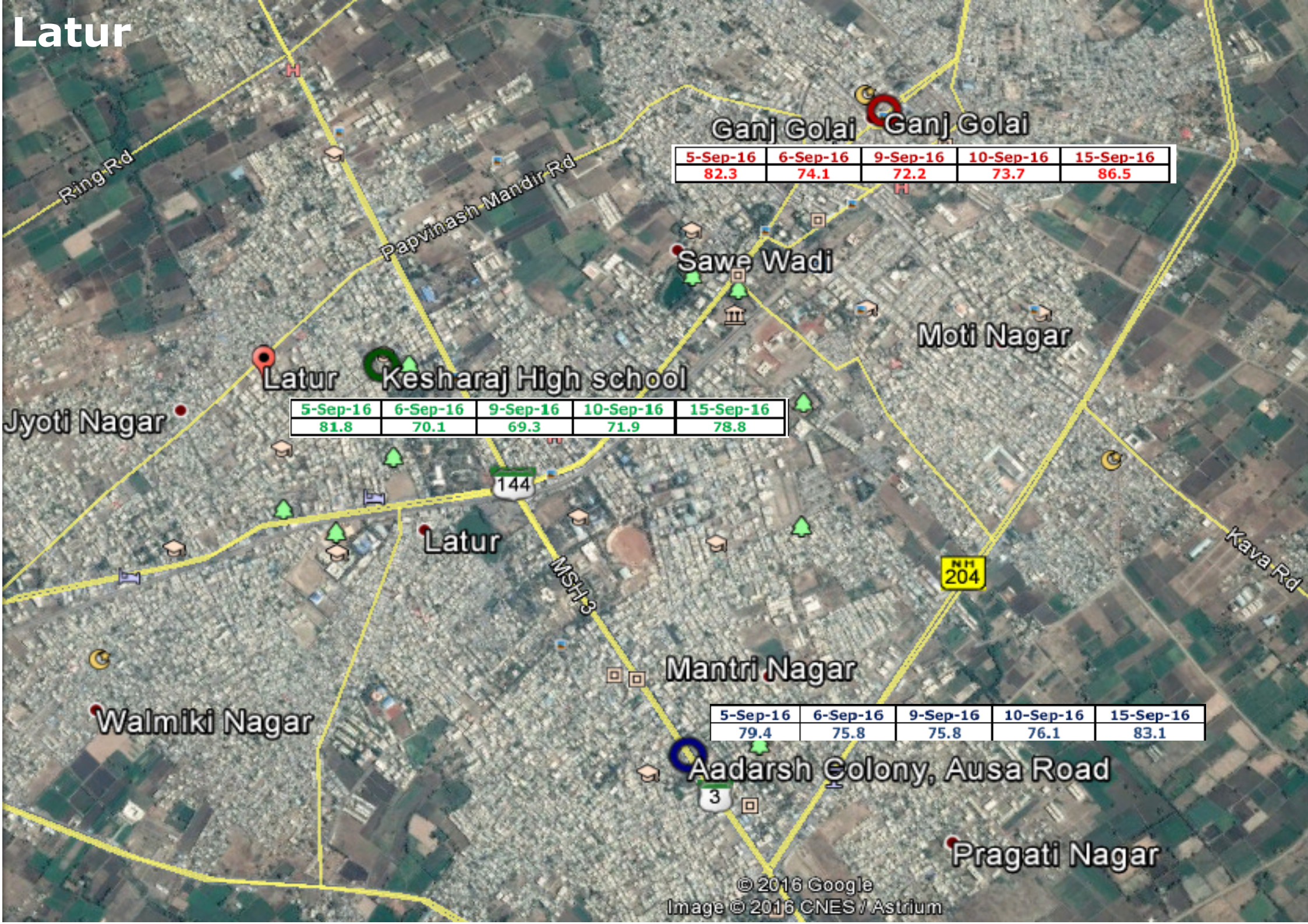
| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.1 | 76.0 | 76.3 | 76.4 | 79.0 |

Railway Station Rd

Khadrabad

Gawane Rd

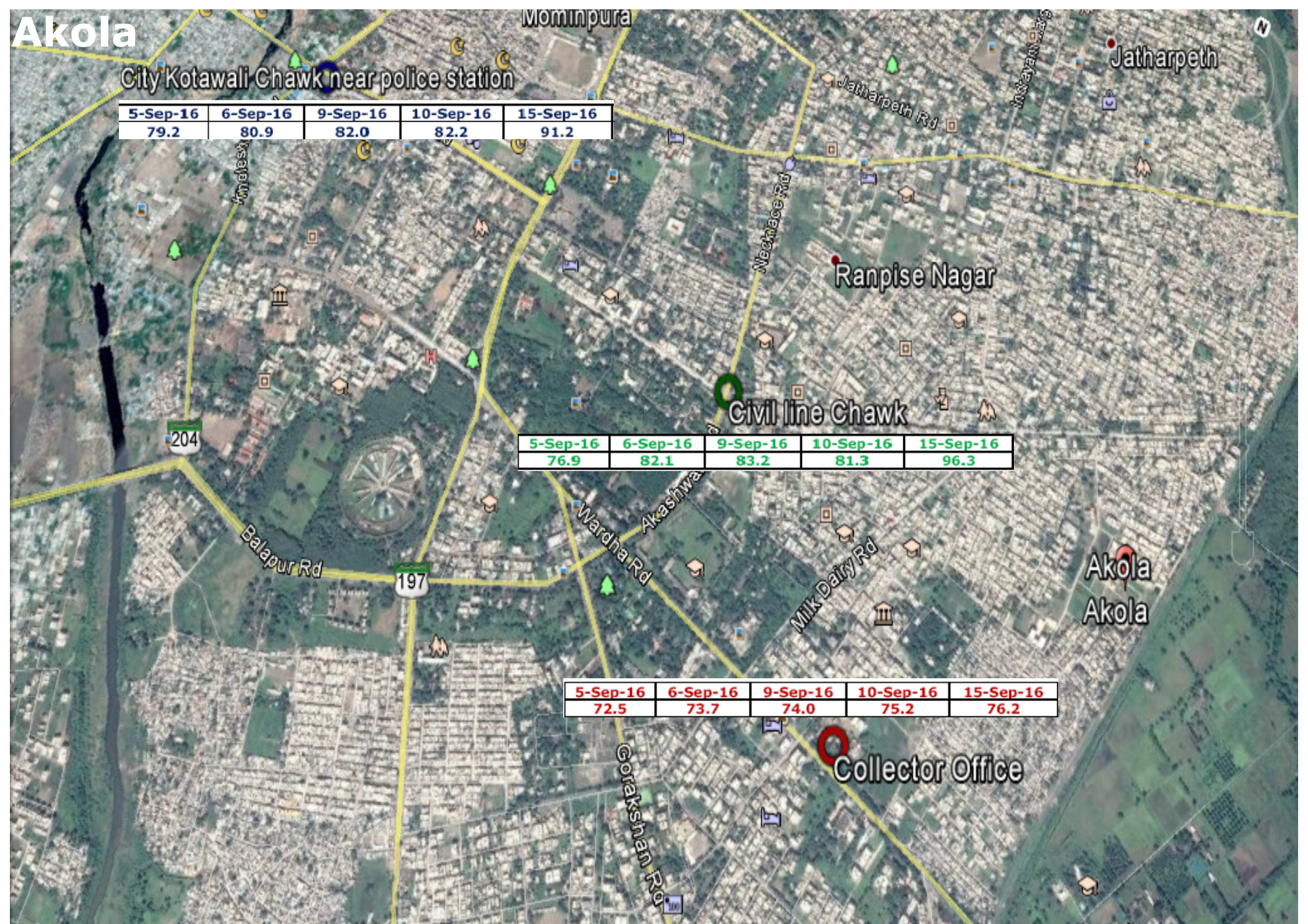
Latur



| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 82.3 | 74.1 | 72.2 | 73.7 | 86.5 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 81.8 | 70.1 | 69.3 | 71.9 | 78.8 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.4 | 75.8 | 75.8 | 76.1 | 83.1 |



Akola

City Kotawali Chawk near police station

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 79.2 | 80.9 | 82.0 | 82.2 | 91.2 |

Civil line Chawk

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 76.9 | 82.1 | 83.2 | 81.3 | 96.3 |

Collector Office

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 72.5 | 73.7 | 74.0 | 75.2 | 76.2 |

204

197

Balapur Rd

Wardha Rd

Akashwa

Milk Dairy Rd

Gorakshan Rd

Ranpise Nagar

Akola
Akola

Jatharpeth

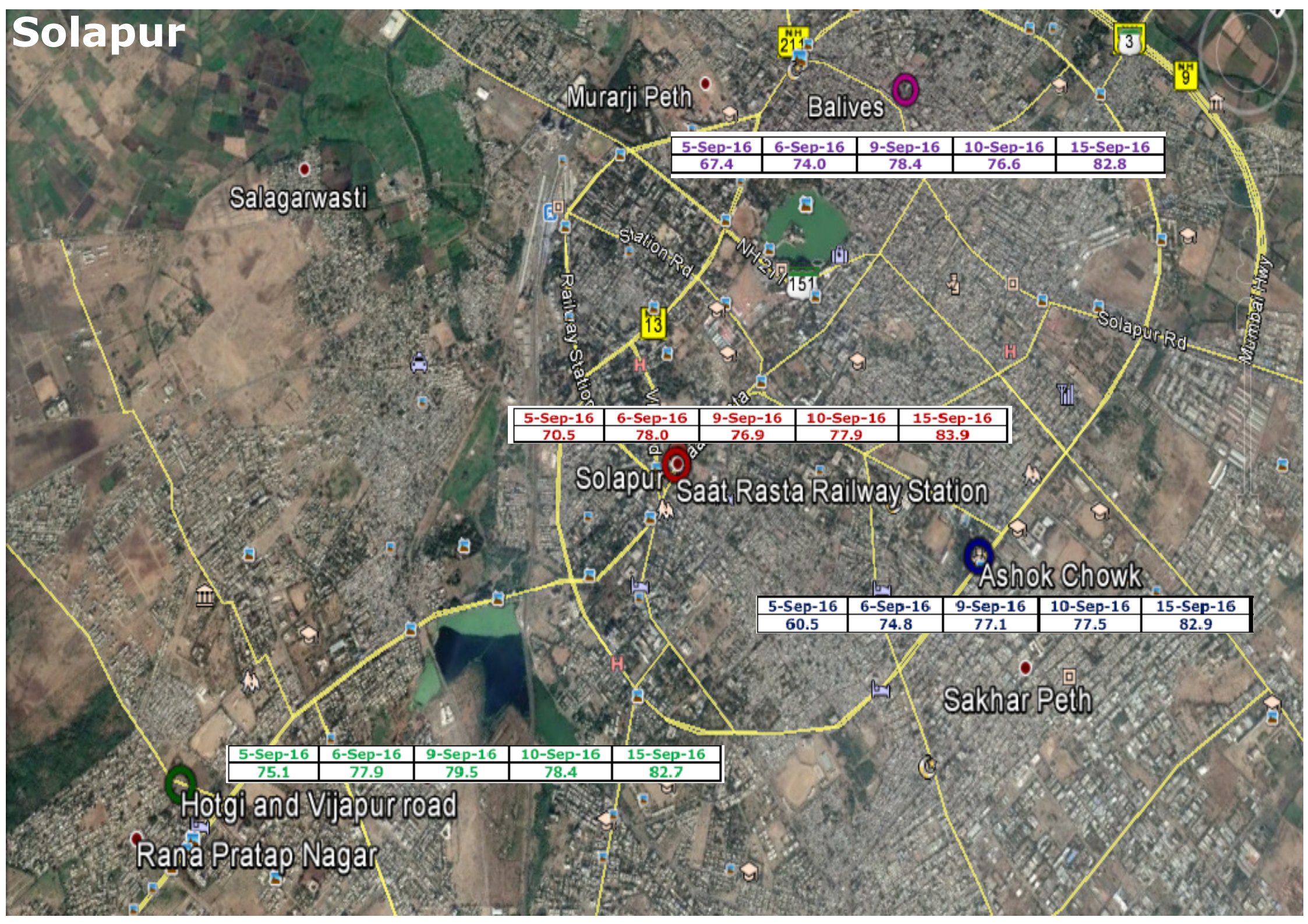
Mominpura

Jatharpeth Rd

Neelam Rd

Indrayan Rd

Solapur



| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 67.4 | 74.0 | 78.4 | 76.6 | 82.8 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 70.5 | 78.0 | 76.9 | 77.9 | 83.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 60.5 | 74.8 | 77.1 | 77.5 | 82.9 |

| 5-Sep-16 | 6-Sep-16 | 9-Sep-16 | 10-Sep-16 | 15-Sep-16 |
|----------|----------|----------|-----------|-----------|
| 75.1 | 77.9 | 79.5 | 78.4 | 82.7 |