

Swachha Maharashtra Mission (Urban)



Dapoli

An Open Defecation Free City in Maharashtra

Declared on 2nd October 2015

Journey of a town towards becoming ODF

**Urban Development Department
Government of Maharashtra**

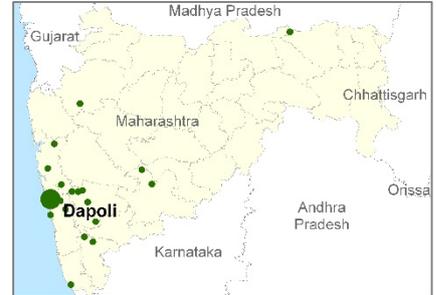
Contents

1	City Profile	1
2	Sanitation Scenario in Dapoli prior to the launch of mission	1
3	Targets set by the Nagar Panchayat under SMMU	1
4	Initiatives by the Nagar Panchayat	2
4.1	Household Level Sanitation Surveys	2
4.2	Awareness Generation and Advertising of Scheme	2
4.3	Individual Toilet Scheme under SMM	2
4.4	Monitoring of likely Open Defecation (OD) spots to prevent OD	3
4.5	Operation and Maintenance of the Community Toilets	3
4.6	Faecal Sludge Management through Biogas Plant	4
5	Declaration and Validation of ODF City by the Government	5
6	Strategy for Sustainability	5
7	Strategy for Moving towards ODF++ City	5
8	Team behind Success	6

Dapoli, Maharashtra

1 City Profile

Dapoli is a Nagar Panchayat (NP) in Ratnagiri district, Maharashtra, with a population of 15,713 as per census 2011. The town has an area of 21.57 sq.km and acts as the main town (Taluka headquarters) for several small surrounding villages. Dapoli is famous as a hill station and is also recognized as 'Mini Mahabaleshwar'. It is 215 km from the state capital of Mumbai.



Map 1: Dapoli and other ODF cities

2 Sanitation Scenario in Dapoli prior to the launch of mission

According to Census 2011, out of 3474 HH in the city 3145 households had toilets on premises, 114 households were dependent on community toilets and 215 households defecated in the open. 94 per cent of the toilets are connected to septic tanks whereas 6 per cent are connected with piped sewer system as per census 2011. Effluent from septic tanks and grey water from kitchen and bathroom is being collected through open drains and allowed to flow in the *Jog nala* across the city without any treatment. Septage from septic tanks is emptied by DNP who owns a vacuum emptier tank.

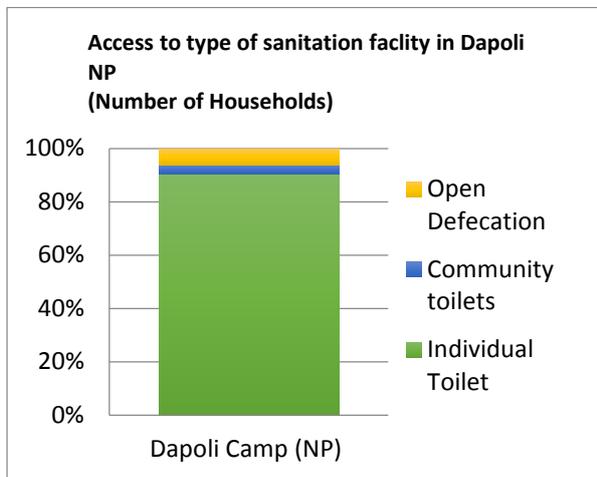
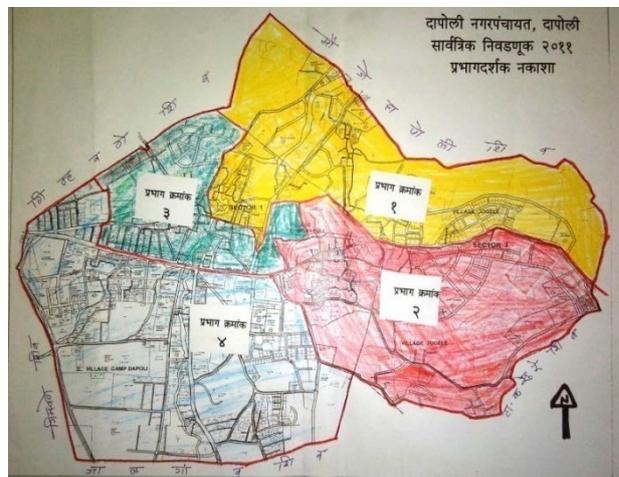


Figure 1: Access to sanitation facility



Map 2: Dapoli, zonal boundaries

Source: Census 2011

3 Targets set by the Nagar Panchayat under SMMU

Making city open defecation free by moving towards 100% own toilets is one of the targets set by DNP. Apart from this, making community toilets clean along with adequate water supply is another target. To ensure that no one practises open defecation within the DNP limits, awareness generation along with morning and evening OD spot visits were also part of the Nagar Panchayat's objectives.

4 Initiatives by the Nagar Panchayat

4.1 Household Level Sanitation Surveys

In order to make the town ODF, Nagar Panchayat recognized the need for a database on existing sanitation situation for Dapoli. They conducted city level survey for 6040 households in August 2015 to generate sanitation database required to identify beneficiaries for construction of individual toilets. From the survey it was found that 30 households defecate in open.

4.2 Awareness Generation and Advertising of Scheme

Realising importance of awareness generation at household level, Nagar Panchayat carried out awareness generation activities through public announcements, displaying banners on public places, conducting ward level meetings with households lacking access to individual toilets, making presentation in schools, advertisements in newspaper etc. In order to achieve the aim of Swachh Maharashtra Mission (SMM), DNP called for the active members of the society and NGOs and involved them in activities of awareness generation. The linkage between open defecation and its ill effects were explained through these IEC activities. As understanding of the issue seeped in, the people's attitude and outlook started changing gradually, and this had an impact on their behaviour.

Councillors and other staff members extended door to door awareness about the individual toilet scheme to those who were dependent on community toilets and resorted to open defecation. The households were informed about the financial help under SMM and the method and procedure of application for construction of toilet during these door to door visits.



Photograph 1: Public meeting



Photograph 2: Awareness programme in a School

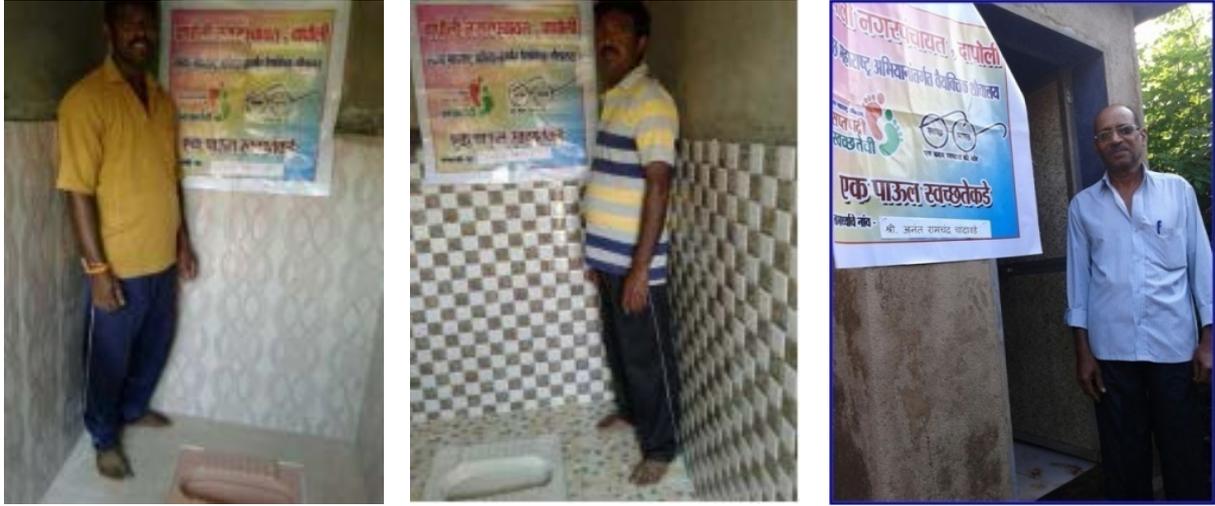


Photograph 3: Community/Ward level Meeting

4.3 Individual Toilet Scheme under SMM

Surveys helped to identify the households who lacked sanitation facilities. DNP administration followed up with such households at ward level to make them construct their toilet. Dapoli NP had organised ward level meetings for distribution of application forms and provided support to fill up the application form for toilet construction under SMM in cases where household were facing issues with filling in the information.

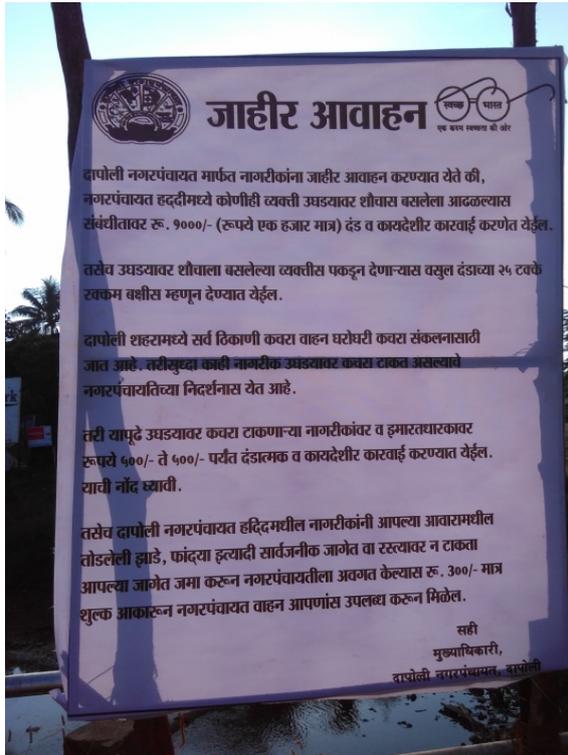
Nagar Panchayat adopted the state model for selecting beneficiaries for providing local and state subsidy to those who wanted to build individual toilets. Nagar Panchayat received a total of 129 applications for construction of individual toilets.



Photograph 2: Individual Toilets under SMM

4.4 Monitoring of likely Open Defecation (OD) spots to prevent OD

Dapoli NP has formed two Good Morning *Pathak* of 5 staff members each to identify the OD spots within the town and prevent people from defecating at these spots. The squad monitors the OD spots, during early morning from 5 a.m. to 8 a.m. The squad would take photographs of those defecating in open and would publish them along with defaulter's names in the local newspapers. A fine of Rs. 1000 would also be imposed on the people found defecating in open. The squad is co-ordinated by Chief Officer.



Photograph 3: Banners showing Penal Actions against OD

4.5 Operation and Maintenance of the Community Toilets

There are 11 community toilet blocks catering to the HHs without individual toilets. These toilets are provided with adequate water and care is taken for their cleanliness. Regular cleaning as well as repairs has been outsourced to a private contractor. The contractor

undertakes cleanliness of toilets and urinals twice a day. The council has appointed dedicated permanent staff for supervision of the work. Frequent cleanliness of toilet, adequate water availability and maintenance of community toilets has helped in reducing open defecation to a large extent.



Photograph 4: Clean community toilets

4.6 Faecal Sludge Management through Biogas Plant

Dapoli city do not have any sewerage system and all the desludging and transportation is through vacuum suction tanks. DNP has one such vacuum suction tank of 3000 litres capacity and is operated by Nagar Panchayat (no private operator provides desludging services). The desludging services are provided on demand and are irregular. DNP emptied about 150 septic tanks in the year 2014-15. Septic tanks of 11 Community/public toilets are however emptied regularly twice in a year.



Photograph 5: Biogas plant

DNP has 5 tonne capacity of biogas plant that converts waste to energy. The waste used as feedstock includes both organic solid waste and faecal sludge from septic tanks. Thus, faecal sludge is given treatment through biogas plant and the energy generated is used in pre-treatment process of solid waste. However, some portion of faecal sludge is still disposed on

agricultural lands free of cost. Nagar Panchayat is in process of purchasing land for sludge management and also has received grant for purchasing generator to convert biogas into electricity which would be used for lighting purpose in the gardens.

5 Declaration and Validation of ODF City by the Government

On 2nd October, 2015 Dapoli declared itself as an ODF city and submitted a report to the Government of Maharashtra (GoM). On the same date DNP was also awarded by the Hon. Chief Minister of Maharashtra during the State level event organised by the GoM. Further, on 30th December 2015, State Level Validation Committee conducted an in-depth validation as per the process set and the checklist provided by the GoM. Dapoli NP passed the validation stages and is now listed as an “ODF City” in Maharashtra.



Photograph 6: Validation visit by State committee

6 Strategy for Sustainability

DNP plans to conduct door to door IEC activities (mostly including council members and DNP staff) about the individual toilet scheme every Saturday and Sunday till they achieve 100 percent individual toilet construction. DNP has decided to provide all the needed technical support to the households who wish to construct individual toilets from the HHs own funds.

Dapoli NP has passed a resolution under which a fine of Rs. 1000 found be imposed on those who would be found defecating in open. Also, the person who would inform Nagar Panchayat about those defecating in open would be rewarded with 25 percent of the total fine. Banners and posters showing these strict actions against open defecation have been displayed in public places to let people know about the consequences of the same.

Early morning visits to likely OD spots will be continued by DNP's pathak- initially for 6 months on daily basis and then on intervallic basis as per the need.

7 Strategy for Moving towards ODF++ City

Government of Maharashtra has developed a framework to achieve the status of ODF+/ODF++ city as a part of integrated sanitation improvement strategy for the ULBs in Maharashtra as per below table. DNP has already achieved the first set of indicators of the framework and declared ODF city status on 2nd October 2015.

Own toilet coverage in DNP is 91% as per Census 2011 and DNP is making efforts to achieve 95%+ coverage of own toilet by on-going construction of own toilets under the mission by February 2016. Thus, the city can easily reach the status of ODF++ in near future if it introduces regular and scheduled septic tank emptying service along with safe treatment of wastewater and collected septage. DNP had prepared a plan for implementation of underground sewerage

	Elimination of OD practices	Access to toilets	Conveyance and treatment of faecal waste
ODF City	<ul style="list-style-type: none"> • Not a single person found defecating in the open • No traces of faeces are visible in the city at any time of the day. 	<ul style="list-style-type: none"> • All the properties have access to either own toilet or community/ public toilet 	<ul style="list-style-type: none"> • All toilets are connected to a disposal system
ODF+ City	<ul style="list-style-type: none"> • Not a single person found defecating in the open • No traces of faeces are visible in the city at any time of the day. 	<ul style="list-style-type: none"> • At least 80% of residential properties have access to own toilets • Remaining properties have access to functional community/public toilets 	<ul style="list-style-type: none"> • All toilets are connected to a disposal system • Regular and safe collection, conveyance and treatment of all the faecal matter
ODF++ City	<ul style="list-style-type: none"> • Not a single person found defecating in the open • No traces of faeces are visible in the city at any time of the day. 	<ul style="list-style-type: none"> • At least 95% of residential properties have access to own toilets • Remaining properties have access to functional community/public toilets 	<ul style="list-style-type: none"> • All toilets are connected to safe disposal system • Regular safe collection, conveyance and treatment of all faecal matter and waste water including septic tank effluent and grey water

8 Team behind Success

Team members in Dapoli who have made a significant contribution towards making Dapoli an open defecation free town includes:

- Mr. Javed Muhammad Maniyar - President
- Ms. Sanjeevani Sankarao Dalvi- Chief Officer
- Mr. Nitin Narayan Shinde - Sanitation Committee Chairman
- Mr. Nitin Virsen Mayekar, Vinita Vinayak Shigwan, Khalid Abdalla Rakhange, Smt. Nikit Narendra Parab - Sanitation Committee Members
- Mr. Vijay Vrushikant Mohite - Sanitation Department Head
- **Good Morning Squad members:**
 - Ward 1 and 2**
 - Shrikant K. Pawar - Squad head
 - Santosh S. Gaikawad, Rajesh J. Jadhav, Raju A. Jadhav, Sachin B. Ghag - Members
 - Ward No. 3 and 4**
 - Deepak P. Gorivale - Squad head
 - Shailesh S. Pawar, Manoj B. Tambe, Sanjay S. Dhopat, Gajanan M. Mhasakr - Members
- **Citizens of Dapoli Nagar Panchayat**



Swachhta Pledge

Mahatma Gandhi dreamt of an India which was not only free but also clean and developed.

Mahatma Gandhi secured freedom for Mother India.

Now it is our duty to serve Mother India by keeping the country neat and clean.

I take this pledge that I will remain committed towards cleanliness and devote time for this.

I will devote 100 hours per year, that is two hours per week, to voluntarily work for cleanliness.

I will neither litter nor let others litter.

I will initiate the quest for cleanliness with myself, my family, my locality, my village and my work place.

I believe that the countries of the world that appear clean are so because their citizens don't indulge in littering nor do they allow it to happen.

With this firm belief, I will propagate the message of Swachh Bharat Mission in villages and towns.

I will encourage 100 other persons to take this pledge which I am taking today.

I will endeavour to make them devote their 100 hours for cleanliness.

I am confident that every step I take towards cleanliness will help in making my country clean.



भारत सरकारचा पुढाकार
स्वच्छ महाराष्ट्र करू साकार



संकल्प स्वच्छतेचा

- सहभागाचा ढाम निघांर
- व्यापक लोकसहभाग मिळवणार
- १०० टक्के शौचालयाचाच वापर करण्यासाठी प्रवृत्त करणार
- कचऱ्याचे संकलन, वर्गीकरण, वाहतूक करणार
- कचऱ्यावर शास्त्रोक्त प्रक्रिया करणार
- सांडपाण्यावर प्रक्रिया करणार
- स्वच्छ व हरित महाराष्ट्र साकारणार

सप्तपदी : स्वच्छ व हरित महाराष्ट्रासाठी ...

*This report is part of a series documenting the efforts made by 19 cities in Maharashtra towards becoming open defecation free. These cities have laid the foundation of "ODF Maharashtra" as envisaged under **Swachh Maharashtra Mission (Urban)***

*It has been prepared in consultation with Urban Local Government and **Urban Development Department, Government of Maharashtra**, with support from **CEPT University, Ahmedabad** and **All India Institute of Local Self Governments (AIIISG), Mumbai** under the **Performance Assessment System (PAS) Project**.*



Government of
Maharashtra

