Ministry of Housing and Urban Affairs
Government of India

स्वच्छ भारत
एक कदम स्वच्छता की ओर

Fight Against COVID-19

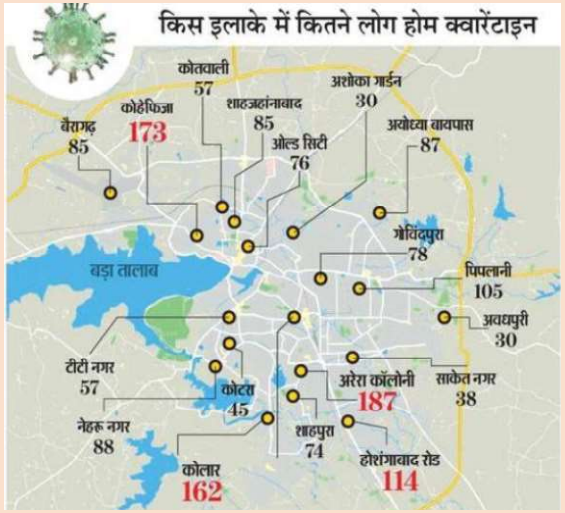
Sample Best Practices by Urban Local Bodies

Waste Management from Quarantined Households

Bhopal Mun Corp.

5 Dedicated **DTDC vehicles** have been allocated in **each cluster** for waste collection by **Bhopal biomedical incinerator service provider.**

They collect waste in **sealed dechlorinate bags and transfer them to incineration plants for processing**.



Home Quarantined Locations

Incinerator

New Delhi

20000 Homes are under quarantine

Bio-medical waste is being collected from doorsteps in yellow bags by trained workers equipped with protective gear

One vehicle in every zone has been deployed to collect waste from quarantined homes. It will then be transported to the **waste-to-energy plant in Okhla** for proper disposal.

Shahdara North Zone

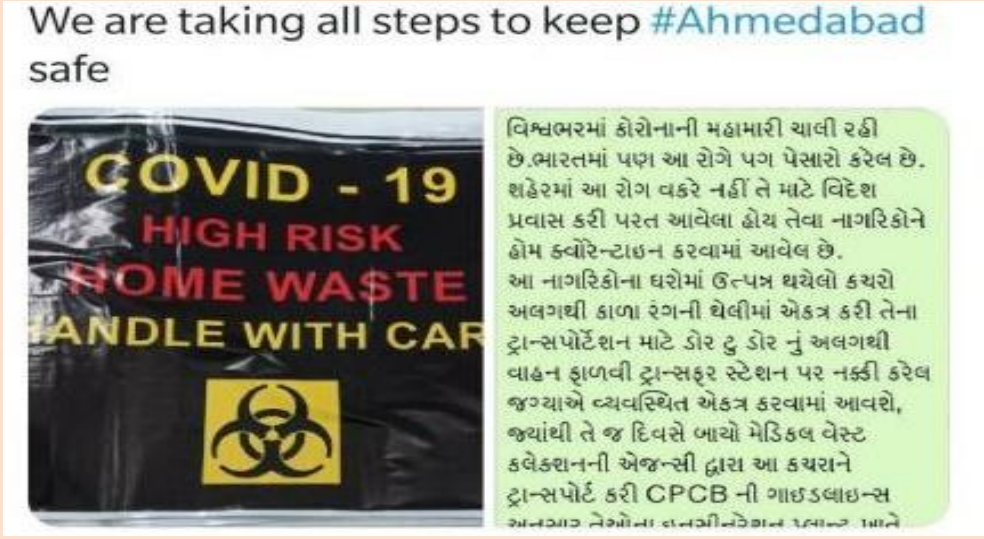
SHAHDARA north zone has assigned a **Special Task Force** to collect biomedical waste from quarantined households.

Waste collected is directly taken to the incinerator for shredding

Ahmedabad Mun Corp.

Solid Waste Management Department of AMC has designed a **specially marked garbage bags for people under Home Quarantine.**

Those handling this waste have been trained separately



Innovations in Sanitization of Public Places

South Delhi Municipal Corporation

Sanitisation of around **4200 public places**

Jetting machines used for sprinkling sanitisers
containing sodium hypo-chloride solutions
or
bleaching solutions for disinfection

400 power spray pumps deployed for disinfecting the hotspots and other public places

East Delhi Municipal Corporation

For the disinfection process, **two disinfectant pumps and 4 “Jataayu” litter pickers** put in use.

Jataayu works on the principle of vacuum and **helps minimise human contact with waste**

Special vacuum machines used to ensure **minimum human contact while clearing the garbage**

EDMC launches sanitisation drive

Paras.Singh@timesgroup.com

New Delhi: After the city administration found it tough to manage the migrant labourers who had gathered at Anand Vihar interstate bus terminal to go to their hometowns recently, the civic body is now struggling with two major challenges—clearing the garbage and sanitising the entire area.

A East Delhi Municipal Corporation (EDMC) official said that a mega sanitation and disinfection drive is underway for the past three days. "We are clearing the waste and disinfecting the public places along the route till UP border so that possibility of any further outbreak is minimised. Ten auto tippers have been deployed to shift the garbage to Ghazipur landfill site," said the official.

"Thousands of leftover packets and wrappers had created a sanitation crisis in the area. Special vacuum machines are being used to ensure minimum human contact while clearing the garbage," he said.

A dedicated team of employees was deployed to disinfect the foot overbridge. "Its railings were touched by thousands of people, and hence no risk of transmission could have been taken," the EDMC official said.

"Two trucks with fumigation sprinklers are deployed on the bus terminal premises to cover both the sides of the road from the bus stop till Kaushambi side. Two disinfectant pumps and four 'Jatayu" litter pickers have also been deployed," he added.

Jatayu works on the vacuum sucking principle and reduces the contact of sanitation workers with the garbage. "This also lessens the risk of contamination.

Navi Mumbai Mun Corp.

NMMC has already disinfected and sanitized **100%** of the public places within its area.

23 vehicles are put into service to carry out this exercise.

100 spray pumps have been specially procured to sanitize the slums and the hard to reach narrow streets and by-lanes.

Nagpur Mun Corp.

NMC is spraying the solution of Sodium Hypochlorite using **Fire Tenders** in the whole city.

They are doing so using 11 Fire tenders of capacity **3000 liters, 5000 liters** and one of **16000 liters**.

Ghaziabad Mun Corp

535 vehicles to sanitise cities

Several cleanliness drives organized across city.

Kanpur Mun Corp

82 public spaces sanitized along with hospitals

Bhavnagar Mun Corp.

BMC is carrying out sanitisation and disinfection procedures regularly. **Fire Tenders** have also been involved in disinfecting public places.

Bangalore(BBMP) and Hubli Dharwad

Special Sanitation drives conducted in various locations of all ULBs which otherwise had high footfall. Efforts are made to remove all **Garbage Vulnerable Points**.

Municipal Corporation Chandigarh

Municipal Corporation Chandigarh is doing sanitization of all public places/buildings by spraying of **sodium hydrochloride 10% & herbal surface spray**

High-touch areas of all public places and buildings are being regularly cleaned and **disinfected**

Major areas are covered under **twice sanitization** (day and night shifts) and special teams are being deputed for the same

Inclusive and Easy Access to Hygiene During COVID 19

Mobile Handwashing Facility for Slum Dwellers
Nandyal Municipal Corporation, AP

Nandyal Municipal Corp brings equality to its people by arranging **Mobile Hand Wash Facility** in slums where people do not have access to hand sanitizer.

Installation of water tanker to open vehicle with four tap connections and four wash basins.

Two **soap dispensers** also installed

Innovative No-Hands Touch Wash Basin
Bhopal Municipal Corporation

Following the No Touch Diktat for COVID prevention, BMC has devised a unique wash basin which functions when foot lever is pressed

Following the principle of Waste out of Wealth, Wash Basins have been made out of discarded tanks

संक्रमण से बचने कबाड़ से जुगाड़

वॉश बेसिन... हाथ लगाने की जरूरत नहीं, पैर से लीवर दबाते ही नल से आएगा पानी

भोपाल | कोरोना के संक्रमण से बचने के लिए जरूरी है न हाथ मिलाएं और न ही किसी वस्तु को छुएं। इसी को देखते हुए शहर में कबाड़ से जुगाड़ कर कुछ वॉश बेसिन, सैनिटाइजर मशीन बनाए गई हैं। ये नवाचार संक्रमण को रोकने के लिए प्रभावी हो सकते हैं।

टंकी से बनाया वॉश बेसिन

हाथ धोने के लिए इस्तेमाल किए जाने वाला वॉश बेसिन भी संक्रमण का कारण बन सकता है। इसे रोकने के लिए नगर निगम के वर्कशॉप इंचार्ज बृजराज सिंह सेंगर ने वेल्डर के सहयोग से ऐसा वॉश बेसिन डेवलप किया है जो पैर से ऑपरेट हो रहा है। ऐसा पहला वॉश बेसिन स्मार्ट सिटी दफ्तर पर रखा है। सेंगर ने बताया कि ऐसे 50 वॉश बेसिन और बनाए जा रहे हैं।

सैनिटाइजेशन ऐसे भी..

अपार्टमेंट्स और बड़े ऑफिस भवनों को सैनिटाइज करने के लिए निगम के इंजीनियर हबीब रहमान ने जुगाड़ से मशीन बनाई है। इसमें फोर स्ट्रोक इंजिन के साथ पंप लगाया गया है और इसे एक हजार लीटर की पानी की टंकी से जोड़ दिया गया है। इसमें सैनिटाइजर भरा हुआ है। इसे एक ऊंचे पर रखा है। मशीन में लगे 150 फीट के पाइप से बड़े अपार्टमेंट्स और सरकारी व निजी दफ्तरों में भीतर तक सैनिटाइजेशन किया जा सकता है।

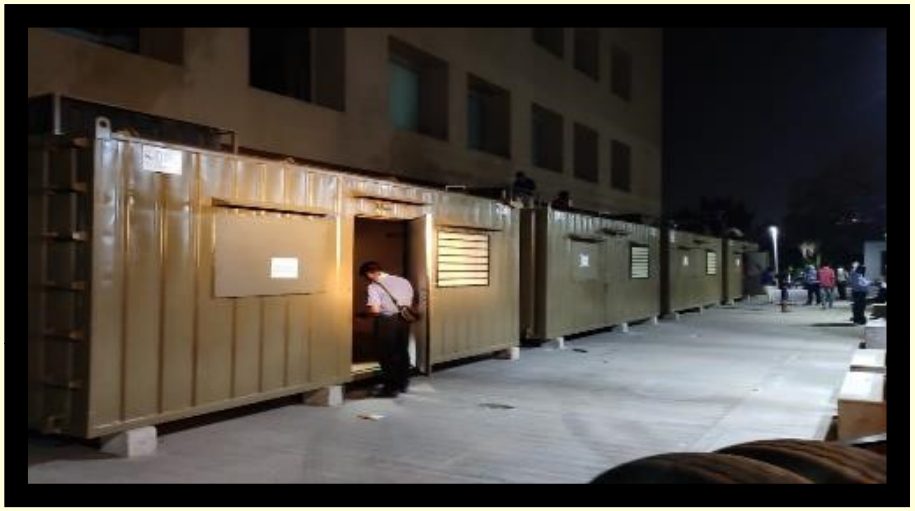
हाथ लगाए बिना नल चालू

भोपाल स्टेशन के कोचिंग डिपो में कर्मचारियों द्वारा उपलब्ध संसाधनों से फुट ऑपरेटेड वॉशबेसिन का निर्माण किया गया है। इसमें नल को छुए बिना ही हाथों को धोया जा सकता है। इधर, रेलवे कोच फैक्ट्री निशातपुरा में स्लीपर श्रेणी के एक कोच को हॉस्पिटल के आइसोलेशन वार्ड में मोडिफाइड कर दिया गया है।

Innovative Quarantine Facilities

Quarantine Cubes

Amdavad Municipal Corporation



Quarantine beds at Zydus Hospital

Called **'quarantine cubes'**, these screening rooms will have **negative air pressure air-conditioning facility** which will not allow the virus to go out of the room.

Quarantine Rooms Made out of Buses

Bhopal Municipal Corporation

Bhopal Municipal Corporation along with the **Sarthak Foundation** have come up with an innovative idea to create quarantine facilities.

22 low-floor buses which are no longer in commission are going to be used as quarantine rooms.

The 32 feet long buses would have enough space to set up **10 beds** and a **small doctor' compartment**

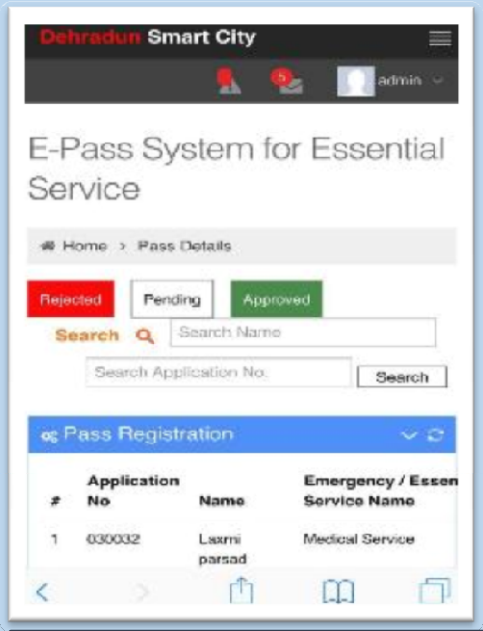
Installation of Sanitization Cabins at Major Government Hospitals

Surat Municipal Corporation

- A special cabin of dimension 5 ft. x 8 ft. x 9 ft. is setup at major government hospitals.
- The cabin is transparent **with non-skid flooring. It has 2 water mist fans for fogging.**
- These fans have 12 litres water capacity that uses Alkyl-Dimethyl-Benzyl-Ammonium-Chloride for Sanitization in 1:800 ratio.
- It works by **spreading the disinfectant through the mist fans** and hence fogging the human body including their hair and clothes within few seconds.

Support Centres/
Digital Technologies
for COVID 19

Special Call Centre for repeated phone contact & counselling **Amdavad Mun Corporation**



E-Pass facility introduced for essential services by **Dehradun**

Smart City Control Room which is operational 24*7 Kanpur

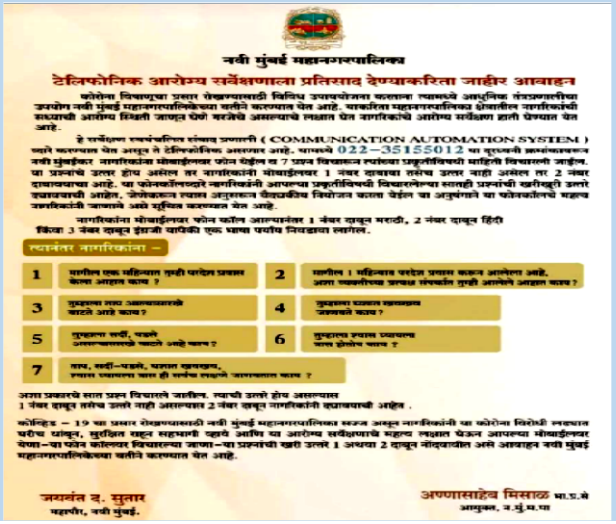
Navi Mumbai Municipal Corp.

Automated Response System

Phone Line - **022-35155012**

A unique concept to ascertain the health of the general public residing in the city limits. The respondent is asked **7 questions about his/her health**

By providing responses to these 7 questions, the public health authorities can evaluate the condition of the person and take necessary action if required.



Pimpri Chinchwad Municipal Corp.

SARATHI

Public Grievance System

An Effort to Connect Citizens with Medical Officers.

Standardized information about Covid-19 has been made available on a single platform, in simple language and FAQ format.

Smartphone Apps

Navi Mumbai Mun Corp.

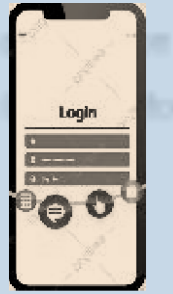
"NearMe" App

It shows the nearby places like hospitals, government offices, markets etc.

Bhavnagar Municipal Corporation

Techno App

Surveying Health and Symptoms of Individuals



Pimpri Chinchwad Mun Corp.

PCMC Smart Sarathi

Online engagement & survey with Quarantine patients

Surat Mun Corp.

SMC COVID – 19 Tracker

Tracking quarantined areas

Jalandhar District Administration

District Administration of Jalandhar has launched an **app via Alluzo** and a **WhatsApp based service** to order essential services which are available on **government prices**.

Groceries and food items can be ordered by and delivered to the people at their homes.

Step has been taken to **promote the idea of social distancing and the stay-at-home philosophy** which is essential to control the spread of COVID-19

Monitoring Mechanisms

24*7 Control Rooms

Pimpri Chinchwad Mun Corp. - **War Room**

Amdavad Mun Corp- **Control Room**

Kanpur Mun Corp- **Control Room**

Lucknow Mun Corp- **Control Room**

Kerala – **Designated Corona Cell**

BBMP and Hubli Dharwad – **Developed Smart Control Rooms**

These Control Rooms have been created to ensure that all **questions and queries** of citizens can be answered by professionals.

This is also important to curb the **spread of fake news**.

Catering to the needs of Marginalized Groups

Distribution of Eatables

Ahmedabad Municipal Corporation

Special arrangements for distribution of food packets and vegetables made

Ghaziabad Municipal Corporation

Food packets **distributed amongst labourers** and others in need

Rajkot Municipal Corporation

Provision of **food items and groceries for sanitation workers**

Community Kitchens

Alappuzha

All ULBs of the district have started **Community Kitchen** for **migrant labourers** and distributing food, **serving over 2000 migrant labourers** per day in total.

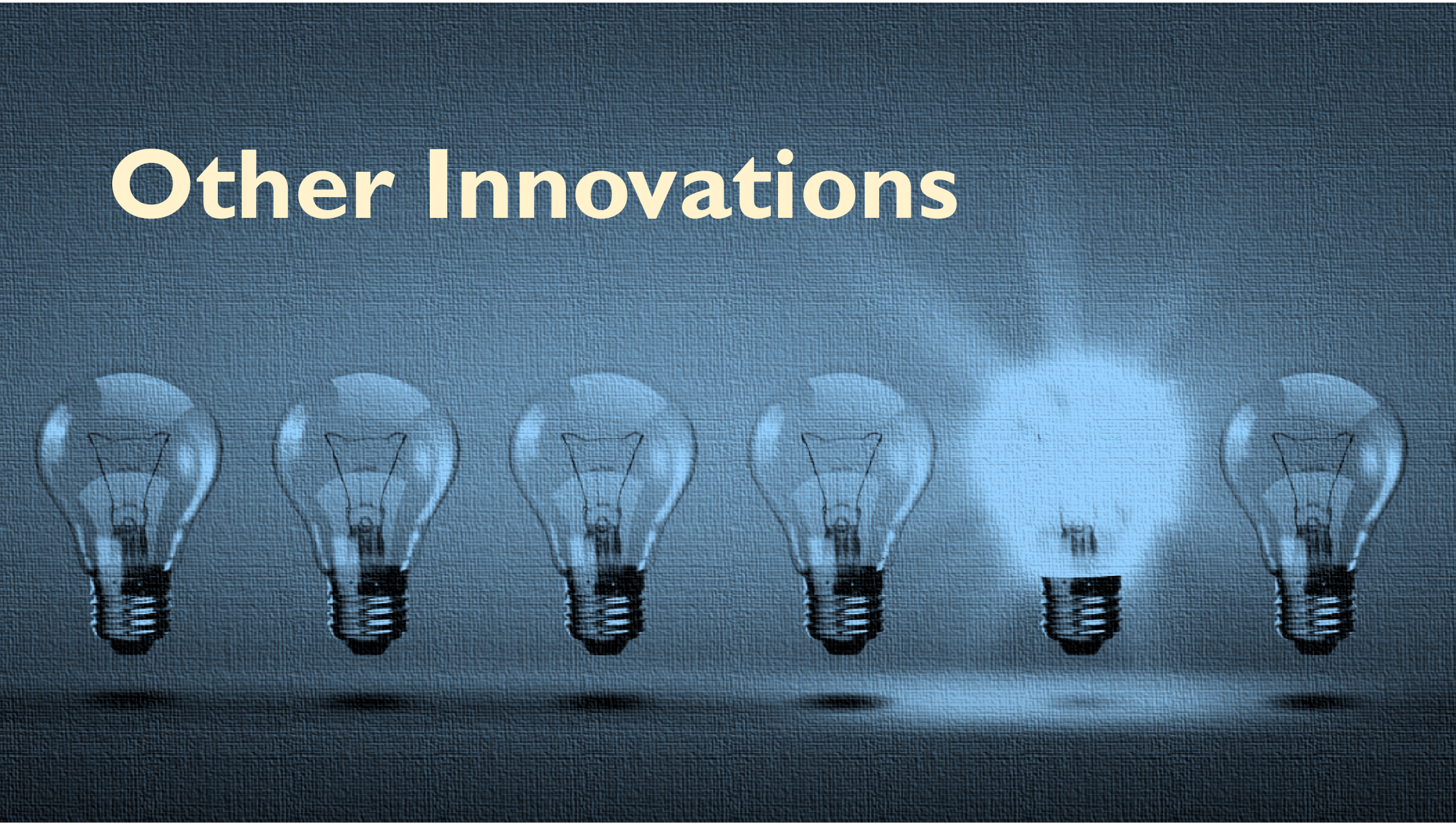
Kochi

Several community kitchens have been set up in Ernakulum, Kochi
Food is being provided for **free** to scores of people of **week sections**, especially the **homeless**

New Delhi

Sikh volunteers are preparing food in their community kitchen to distribute it among the **needy** at **Bangla Sahib Gurudwara**

Other Innovations



Public Address System (PAS)

A **public address system (PAS)** is an electronic sound amplification and distribution **system** with a microphone, amplifier and loudspeakers, used to allow a person to **address** a large **public**, for example for announcements of movements at large and noisy air and rail terminals.

Gandhinagar Municipal Corporation

Public awareness on COVID-19 is being spread through **Garbage Collection Vehicles Public Address System (PAS)**

Petlad Municipality

Door to Door vehicles and Announcement Rickshaws announce various day to day instructions and details related to the lockdown and **COVID-19** in general.

Vadodara Municipal Corporation

Regular **Door to Door Garbage Collection** and announcements through the garbage Vehicle's PA system regarding COVID-19 are made.

Surat Municipal Corporation

Each door to **door Garbage collection vehicle** has a PA System attached to it. Announcements related to **hygiene, social distancing**, COVID-19,etc. are given through this system.

Managing COVID Hotspots
North Delhi Municipal Corporation

Sensitization of citizens under **home quarantine for safe disposal of bio-medical waste**

Isolation ward with 50 beds has been prepared

Screening OPD started on **27X7 basis**

Bio-chemistry Lab setup

Staff in peripheral centers undertaking **house to house and tele- monitoring of patients** **in Home Quarantine on daily basis**

Sirens help MP town maintain good hygiene during Covid-19 lockdown in Sagar

In Sagar, 186 kilometres from state capital Bhopal, the district administration has put in **place sirens which go off every three hours** and people start **washing their hands** wherever they are.

Initiatives by SHGs, NGOs & Volunteer Groups

Imphal

Women of Achumba Self Help Group, Singjamei, Imphal Manipur **create masks to help prevent contain the menace of COVID19**

Jammu & Kashmir

Fashion designers, small-time tailors and students volunteer to tide over the shortage of masks, body-bags and personal protective equipment vital for the front-line health workers.

Pauri, Uttarakhand

People from various Self-Help Groups in Pauri, Uttarakhand are working tirelessly to produce **masks on a large scale**. They have been doing this in coordination with the **National Urban Livelihoods Mission**.

Gharghoda, Chhattisgarh

Group of **Swachhata Didis** from Gharghoda donate a day's salary from their **honorarium** to the Chief Minister's Relief Fund.

Earthkids Foundation Gandhinagar

Earthkids Humanity Foundation is working in Gandhinagar city during the COVID-19 by **creating awareness about social distancing, handwashing and COVID-19 to more than 3000 labourers in the city and distributed masks to around 2000 labourers**

Aurangabad

The Chamber of Marathwada Industries and Agriculture (CMIA) women entrepreneurship promotion cell, jointly set up by MSME scheme and GIZ is providing **market access support to 11 women entrepreneurs** who are manufacturing cotton masks for Covid 19 prevention.

Bengaluru

Nuns of the **Apostolic Carmel (AC)** congregation are utilising the lockdown period for stitching **protective gowns** for the doctors of St John's Hospital, Bengaluru.

AC Sisters have stitched nearly **70** doctor gowns till now and have a target of making **100 more** protective dresses

In the NEWS!
#IndiaFightsCorona

Nabha residents **shower flowers** on sanitation worker!

Odisha govt sanctions **Rs 54 lakh to feed stray animals**

#50MealPackChallenge: Youth campaign delivers 5 lakh meals to needy during lockdown

……any many more stories of inspiration….

IEC Campaigns

IEC Materials may be accessed from swachhbharaturban.gov.in

https://drive.google.com/drive/folders/11ZzBK-dSzL0eChwsr2tC6wGD_xFxOY7A

What can we do for our Sanitation workers?
Procure and provide soap and sanitizer for those who work in your locality
SOAP

Ministry of Housing and Urban Affairs
Government of India
खुद को
खुद ही बचाना है।
घर से बाहर नहीं जाना है।।
कोरोना
को देश से भगाना है।
यह फर्ज मिलकर निभाना है।।

SAFETY MEASURES = सावधानियां ही बचाव कोरोना वायरस से
CORONA HELPLINE NO.
104|1100
20 सेकंड तक हाथ हैंडवाश/साबुन से धोएं
बार-बार होगा हाथ धोना
तो नहीं होगा कोरोना

How to dispose of waste from quarantined facilities?
If you are a resident of quarantined home, request sanitation worker to ensure the collected waste is kept separately.

How to dispose of waste from quarantined facilities?
All the waste coming from quarantined homes will be considered as Bio-medical Waste and managed only through incineration.

Ministry of Housing and Urban Affairs
Government of India

THANK YOU

and a big Salute to our Swachhata Heroes!

Sanitation workers are ensuring that our surroundings are clean so that we can fight COVID-19