



Safaimitra Suraksha Challenge

A Report on Capacity Building Workshop for City Officials

2020-21





Ministry of Housing and Urban Affairs
Government of India

Safaimitra Suraksha Challenge

*A Report on Capacity Building
Workshop for City Officials*

2020-21

Submitted to
MINISTRY OF HOUSING AND URBAN AFFAIRS (MoHUA)



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Task: Delivery of online training sessions and technical assistance to 246
participating cities under Safaimitra Suraksha Challenge

Project team

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Preface

We are very grateful to the Ministry of Housing and Urban Affairs, Government of India for entrusting the National Institute of Urban Affairs, as an anchor organisation for the training and capacity building efforts to facilitate the *Safaimitra Suraksha* Challenge launched to eradicate the practice of unsafe sewer management in over 246 cities across India.

Intending to achieve the goals of the challenge, NIUA adopted a two-pronged approach - collaborating with the training organisations and service providers and encouraging them to partner with the cities based on the needs of the ULBs. To implement this challenge, NIUA collaborated with over thirty training institutes and organisations. These organisations were mapped spatially and in terms of their capacities. The representatives and nodal officers were trained to aware and edify the importance and need of this challenge.

Ensuring that the content delivery is demand-driven and addresses the needs of its stakeholders, NIUA conducted a Rapid City Need Assessment to understand the needs of the cities. The institute has provided the platform to the cities, partner organisations, and various other agencies to interact with each other to discuss the needs and the kind of support and engagement required during the challenge.

The interactive sessions brought all stakeholders together on a single platform. The resource persons included domain experts from public and private sectors, procurement specialists, service providers, innovators and communication professionals. It also helped ULBs exchange good practices, thereby promoting peer-to-peer learning.

By building the capacities of the people across India, the institute hopes to contribute towards the journey of the prohibition of manual scavenging and safeguarding and empowering the lives of the *safaimitra* across India.

The report on 'Training of city officials under Safaimitra Suraksha Challenge' summarises the challenge and its objectives and expected outcomes. Additionally, the report covers the activities and the role of the NIUA and highlights a few commendable success stories. Lastly, it concludes with the feedback of the stakeholders and provides recommendations for successful completion of the challenge and similar initiatives in the future.

I congratulate the SMSC team at NIUA for their efforts and hope that they leverage the experiences gained in the process of facilitating this challenge.

Hitesh Vaidya
Director
National Institute of Urban Affairs

Acknowledgment

Being part of the arduous and critical mission to eradicate unsafe practices in sewage cleaning and maintenance has been a very rewarding experience. We are thankful to the Ministry of Housing and Urban Affairs (MoHUA), Government of India, for giving us the opportunity and the United Nations Industrial Development Organization (UNIDO), for its support, to anchor the Safaimitra Suraksha Challenge across India.

We would like to make a special mention of Mr. Kamran Rizvi, Additional Secretary, Mr. Naveen Agarwal, Director and Mr. Binay Kumar Jha, Director, from the Ministry of Housing and Urban Affairs (MoHUA) for their invaluable guidance at every step. We also wish to acknowledge the efforts of Mr. Rohit Kakkar, Technical Advisor, and Mr. Anil Prakash, Advisor, NIUA, and the team members of National PMU, Mr. Prabal Bhardwaj and Mr. Rahul Jha. We are indebted to Mr. Rene van Berkel, Ms. Katarina Barunica Spoljaric, Mr Tomasz Pawelec, Mr. Nand Pal Singh and Ms. Manasa Suresh from UNIDO for continuous supervision throughout the process.

The journey of the Safaimitra Suraksha Challenge in the challenging times of the COVID-19 pandemic has been possible due to the commitment and flexibility of the officials of the municipal corporations across India. We are grateful to our training partners, resource persons and members of the other relevant organisations who have spared their valuable time and contributed their expertise to enlighten the city officials as and when required. We extend our sincere gratitude to each one of them.

We are grateful to Mr. Hitesh Vaidya, Director, National Institute of Urban affairs (NIUA) for his leadership and guidance at every stage.

Paramita Datta Dey
Team Lead

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1. About the Challenge

The Ministry of Housing and Urban Affairs (MoHUA), Government of India, launched a national competition titled “Safaimitra Suraksha Challenge” on 19 November 2020. The Challenge, aptly launched on World Toilet Day, aims to prevent ‘hazardous cleaning’ of sewers and septic tanks and promote their mechanized cleaning.

Chief Secretaries, State Mission Directors, and other senior State/ Union Territory and city officials came together and pledged their commitment on behalf of 246 cities to mechanize all sewer and septic tank cleaning operations by 30 April 2021. They gave their commitment to work towards preventing any deaths from hazardous entry into sewers and septic tanks.

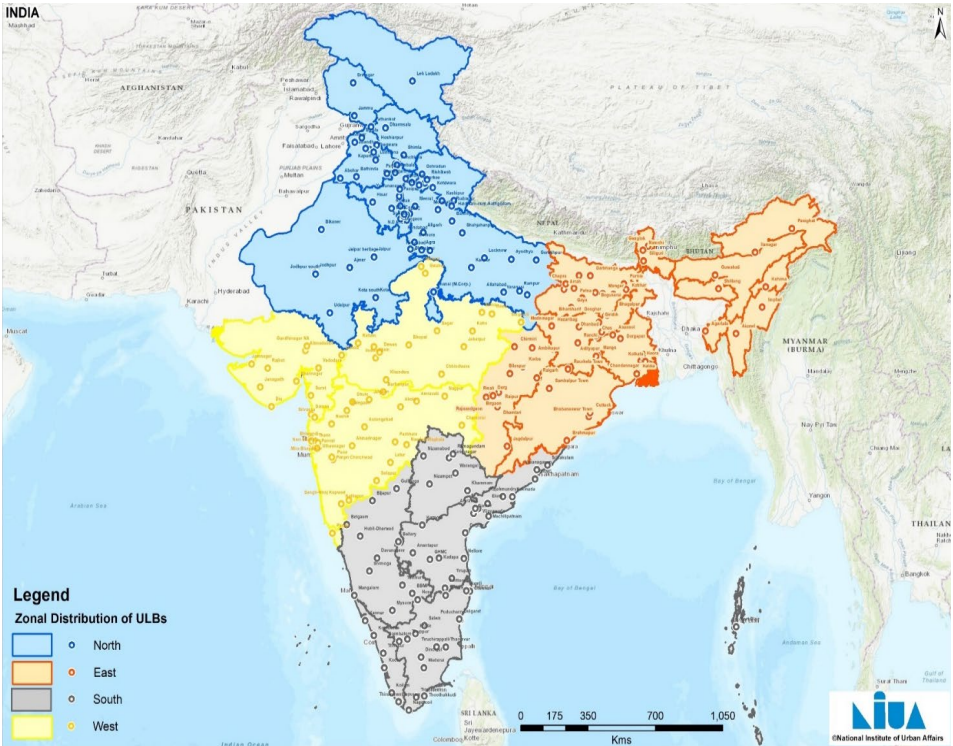


Figure 1 Number of cities participating under Safaimitra Suraksha Challenge

Speaking on the occasion, Shri Hardeep Singh Puri (Honorable Minister of State MoS, I/C, MoHUA), said, “The Prohibition of Employment as Manual Scavengers and their Rehabilitation Act (2013) and various judgements of Hon’ble Supreme Court expressly prohibit hazardous cleaning, i.e. manual entry into a septic tank or sewer without protective

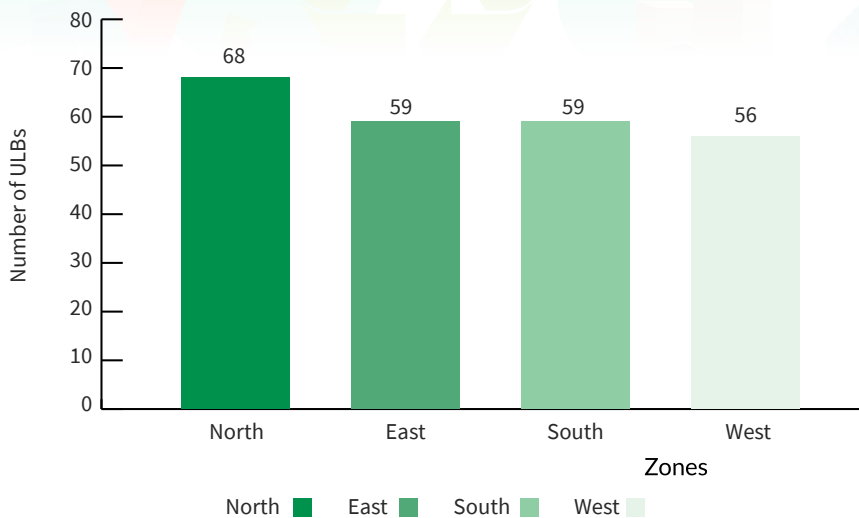


Figure 2 No. of ULBs participating in the challenge

gear and observing operating procedures. Despite this, recurring episodes of human fatalities among those engaged in cleaning of septic tanks and sewers, typically belonging to the economically disadvantaged and marginalized communities of society, continue to be an issue of concern.” Shri Puri highlighted that the success of the challenge does not only depend on the intent and commitment of political representatives, bureaucrats or Municipal authorities but also the citizens of the country. The objective of this challenge is to encourage more cities and towns to adopt ‘Mechanized Cleaning of Sewers and Septic Tanks’ as a practice.

The Safaimitra Suraksha Challenge (SMSC) focuses extensively on creating citizen awareness and infrastructure creation for mechanized cleaning and capacity building of the workforce. To register complaints and provide real-time solutions on desludging or sewer overflow, a dedicated helpline number has been set up. An independent agency will conduct the on-ground assessment of participating cities in May 2021. The results of the challenge would be declared on 15 August 2021 and participating cities will be awarded in three sub-categories – those with a population of more than 10 lakhs, 3-10 lakhs, and up to 3 lakhs. Total prize money of Rs 52 Crores will be given to winning cities across all categories.

A set of advisories prepared by the Central Public Health and Environmental Engineering Organisation (CPHEEO), MoHUA were also launched on 19th November 2020. These included a ‘Training Module for Sanitary Workers on Cleaning of Sewer and Septic Tanks’, a document on ‘Equipment & Workforce Norms for Managing Waterborne Sanitation in India’

and a Consultative Document on 'Land Application of Faecal Sludge'. MoHUA also released a series of posters as part of a citizen-centric behaviour change and communication campaign on the subject of hazardous cleaning of sewers and septic tanks. All these documents are available on the Swachh Bharat Mission - Urban portal.

1.1 Objectives and Outcomes of this challenge

The challenge aims to aware, edify and build the capacity of people to promote the mechanized cleaning of sewers and septic tanks across India. The specific objectives and outcomes of the challenge are as follows:

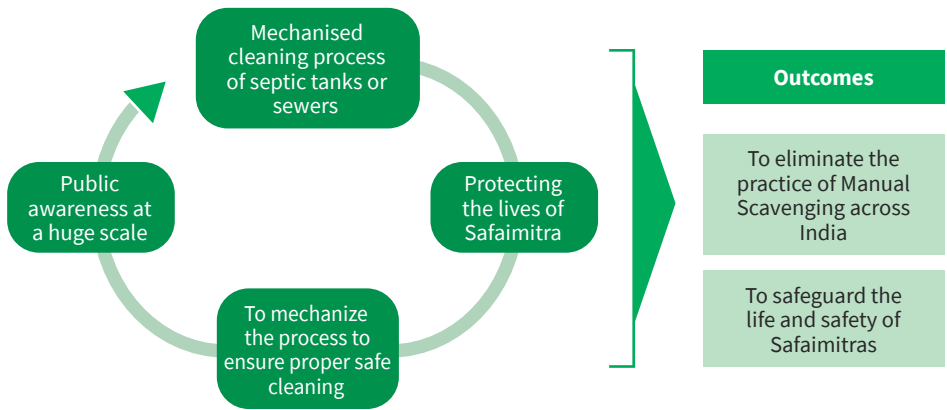


Figure 3 Objectives and Outcome of Safaimitra Suraksha Challenge

2. Role of NIUA

MoHUA nominated the National Institute of Urban Affairs (NIUA) to anchor the capacity-building initiative for this challenge. The major role of the institute spans the following: conducting ToT sessions (explaining the aims and objectives of the challenge); creating a knowledge repository; organizing need-based training sessions for the Urban Local Bodies; and facilitating technical support to the city officials for better implementation.

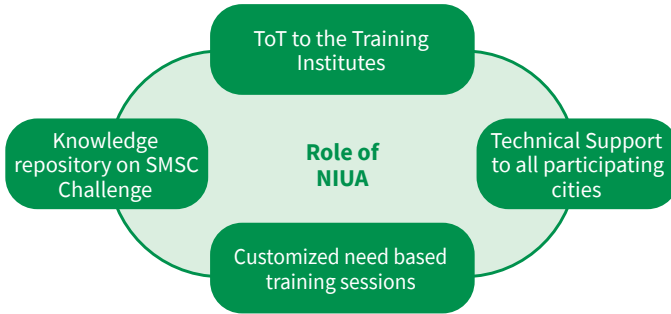


Figure 4 Role of NIUA under Safaimitra Suraksha Challenge

To initiate the challenge, the institute has taken various steps. The first step was to map the training organisations across India that can enhance the capacities of the officials of ULBs.

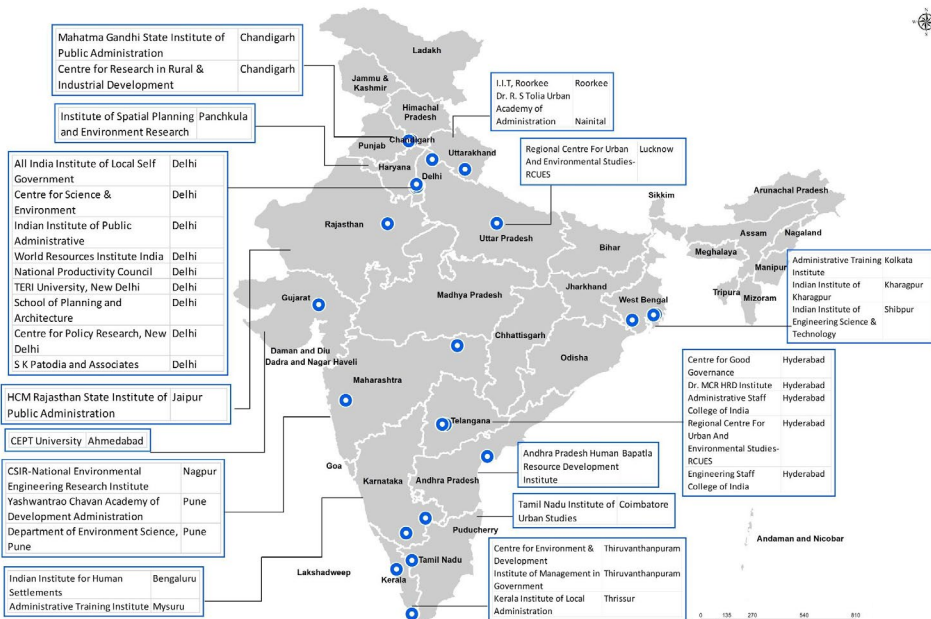


Figure 5 Mapping of training Institute across India

Following this, the organisations were asked about their willingness to extend support, and those that were willing were mapped into a roster. Over 30 partner organisations across India, expressed their willingness to assist the chosen 246 cities. As a third step, these organisations were mapped based on their potential nature of engagement. This involved capacity building, implementation and execution Figure 5. Some organisations additionally offered other kinds of engagements like action research, GIS Mapping, IEC assistance, etc. This nature of engagement was further matched with the needs expressed by ULBs.

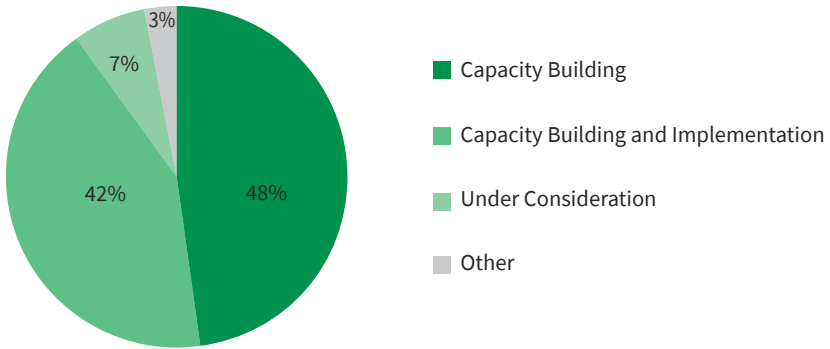


Figure 6 Engagement offered by Training organisations

Accordingly, the city officials were encouraged to approach the organisation/training institute for support required under the SMS challenge.

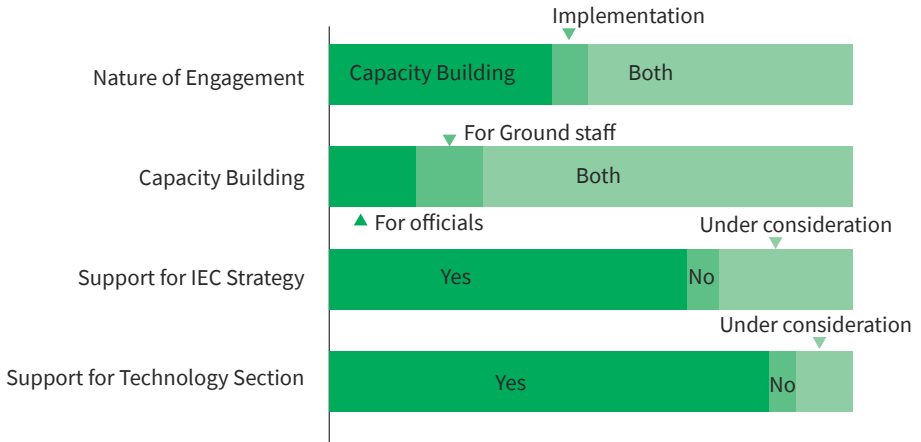


Figure 7 Analysis of Rapid Need Assessment of City Needs

3. Activities and outcomes achieved under Safaimitra Suraksha Challenge by NIUA

NIUA conducted five workshops to date. The details of the workshops are summarized in Table 1. A one-month window was provided between each workshop to let the cities participate and implement their plan of action.

Table 1 Brief about the workshops conducted by NIUA under SMSC challenge

Sl. No.	Title	Date	Theme/Topics covered
1	Orientation Meeting for Safaimitra Suraksha Challenge	4 th December 2020	To orient more than 30 partner organisations about the Safaimitra Suraksha Challenge
			To conduct Rapid city need Assessment
2	Collab Meet For Cities And Partners	28 th December 2020	Introduction and findings of the rapid city need assessment and partner potentials
			Activities, steps needed and support available from MoHUA, NIUA and other partner organizations for the SMS challenge
3	Coordination Meet -1 For Cities And Partners	15 th January 2021	Experience sharing by partner organization
			Affordable and Innovative technologies for mechanised sewage cleaning
			Understanding the mechanism of Loan Mela
			Brief on the use of equipment for mechanised cleaning
4	Coordination and Experience Sharing Meeting -II For Cities And Partners	10 th February 2021	Experience sharing by partner organizations
			FAQs related to MIS
			Different kinds of IT solutions for SMSC
			Importance and use of IEC and communication campaign
			Experience sharing by partner organization

Sl. No.	Title	Date	Theme/Topics covered
5	Open House For Safaimitra Suraksha Challenge	16 th March 2021	FAQs related to the challenge
			Insights on skill development for the challenge
			FAQs related to National Helpline Number '14420'

On 4th December 2020, the institute organized the 'Orientation meeting for the cities and training institutes' in association with MoHUA, to orient the city officials and training entities for effective implementation of this challenge across India. In continuation, based on the FAQs and the queries of the participants, another workshop was conducted on 28th December 2020, 'Collab Meet for SMSC', for better understanding and clarifying the doubts that cities have with regards to the activities and components, steps to be followed and the kind of support a city can avail through various agencies, institutes, etc.

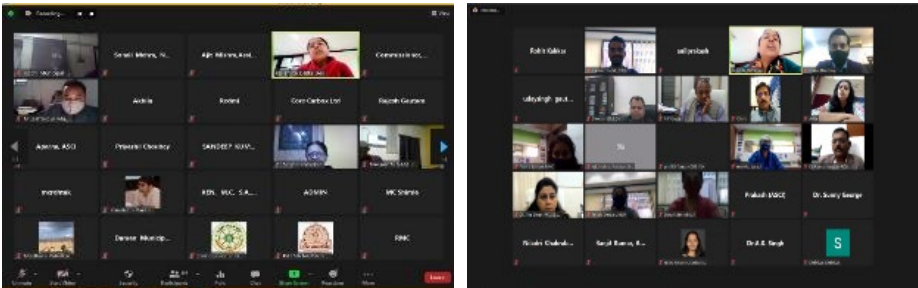


Figure 8 Orientation and Collab meet organised by NIUA under SMSC



Figure 9 Coordination and Experience sharing Workshop-II

Enlightening and equipping the cities and entities with the knowledge and the required capacity to participate, the institute came up with an experience-sharing platform, where a city and a training partner can highlight their initiatives, strategies and action plans. This was held on 15th January 2021 and 10th February 2021 namely 'Coordination and Experience sharing Meeting-I' and 'Coordination and Experience sharing Meeting-II' respectively. On 16th March 2021, an Open house meeting was organised to discuss the insights on skill development and FAQs related to the challenge and the National helpline number. Through these five workshops, NIUA has successfully built the capacity of more than 500 people across India.

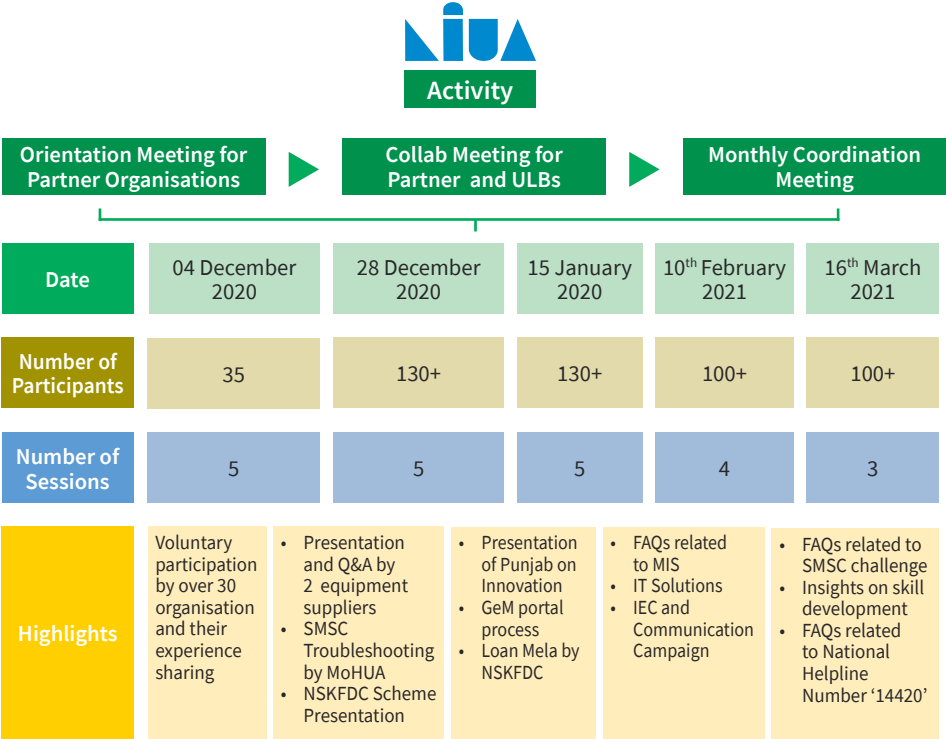


Figure 10 Outcomes of the activities undertaken by NIUA under SMSC challenge

4. Success Stories

This section elucidates few commendable success stories as part of the challenge.

4.1. Telangana

The Greater Warangal Municipal Corporation (GWMC) of Telangana State have effectively participated in the challenge and organized various initiatives for creating awareness on the same. The GWMC has created awareness on the usage of PPE to sanitation workers, conducted yoga, sports, and health camp for Safaimitra, and distributed PPE kits. On the other hand, the Karimnagar Municipal Corporation has conducted door-to-door awareness campaigns.



**Figure 11 Citizen Empowerment
24X7 Helpline**



**Figure 12 Public
Awareness Campaigns**



Figure 13 Mechanized cleaning, men and machine

4.2. Ladakh

The Municipal Committee Leh has organized a day-long training on the 'Municipal Governance and Sanitation workers' for the ward members of Leh and Kargil districts. They have also conducted Focused Group Discussion in the unplanned colony Changspa (Ward No.3). The residents were educated about the penal actions against the hazardous cleaning of septic tanks or Dry Toilets under the PEMSRA Act, 2013. At the closing ceremony of the LG Ice Hockey Cup, an awareness campaign was organized to eradicate manual scavenging.



Figure 14 Capacity Building (Private trained desludging operators)



Figure 15 Training on Municipal Governance and Sanitation workers for the ward members



Figure 16 Focused Group Discussion at Changspa



Figure 17 Awareness Campaign at LG Ice Hockey Cup

4.3. Punjab

In Punjab, 2485 Safaimitras have completed training programme under this challenge. Some training pictures from Bathinda and Abohar, Punjab follow in the subsequent section.

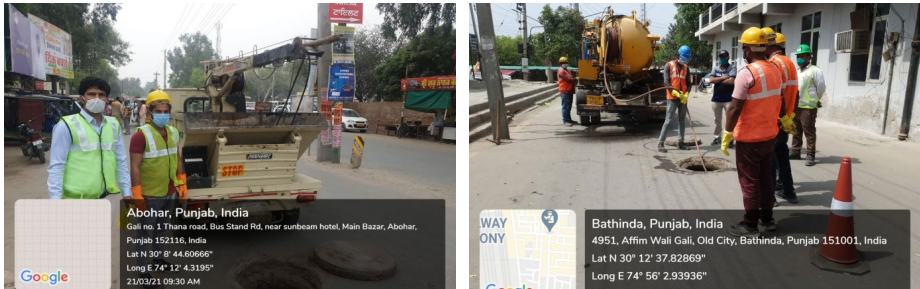


Figure 18 Training on Mechanised Cleaning

4.4 Nellore

Nellore Municipal Corporation has developed and adopted innovative approaches under this challenge.

To detect overflow of machine-holes, the corporation has developed an innovative sensor-based device. This device functions by detecting overflow through the sensor and alerts the same by buzzer and also sends a message (SMS) to the registered mobile. This is primarily planned to be attached at machine-hole hotspots. Also, a cost-effective Manual de-silter is developed by the corporation to remove silt from deep machine holes. The corporation had conducted various public awareness campaigns through Radio Jingles, a message from leaders, Video messages, Social media campaigns, Print media (newspaper, banners, posters, pamphlets), Promotional campaigns (Street plays, rallies, marathons, Involvement of youth, children and elderly, etc.), etc. to eradicate manual scavenging and had distributed safety gears and PPE kits for safeguarding the lives of safaimitra.

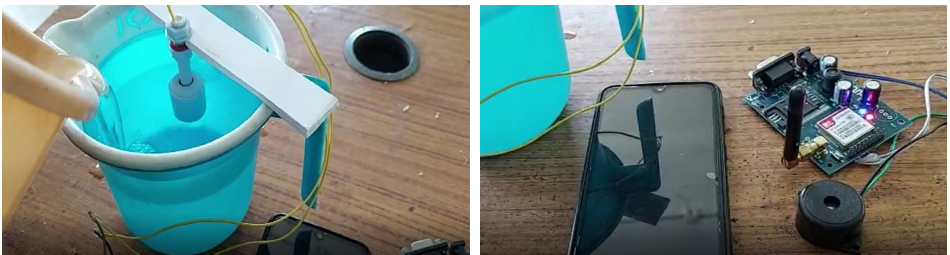


Figure 19 Testing Prototype



Figure 20 On-field testing prototype



Figure 21 Innovative model developed for removal of slit from the machine holes



Figure 22 Safety gears and PPE kits

4.5 Behrampur

Behrampur Municipal Corporation created a digital platform for FSM to assist the urban local body in managing, monitoring, and streamlining FSM (Faecal Sludge Management) service delivery.

Through enabling systematic FSM performance management, the Platform can assist the state and local governments in:

- Exercising effective cost control which is especially crucial for FSM given that O&M costs makeup 60-75%of total FSM systems' costs
- Informing data-driven policy decisions on costs, tariffs, and additional upgrading requirements
- Setting and monitoring levels of service for citizen satisfaction.

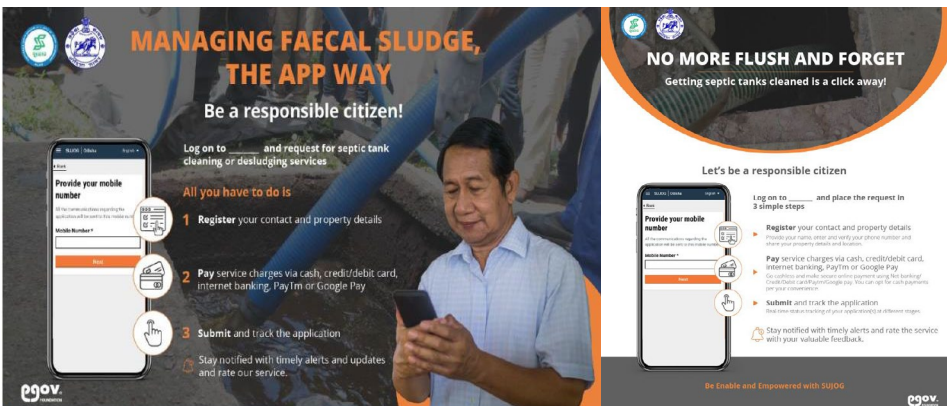


Figure 23 Digital platforms for FSM

Also, the corporation has deployed mini cesspool vehicles for mechanized and subsidized desludging process in slums having narrow lanes and has successfully availed the benefits of the loan under “scheme for rehabilitation of manual scavengers” and made 7 women safaimitras as entrepreneurs with sewer cleaning & septic tank cleaning machines.



Figure 24 Mini cesspool vehicle for mechanized and desludging process in slums



Figure 25 Berhampur Swachhata Bahini

Public awareness campaigns through radio jingles, social and video messages have been initiated by the corporation. The primary aim was to aware the sanitation workers of their health and safety and to sensitize the citizens with respect to the possible hazards that can take place in the absence of mechanized cleaning.

ସଜ୍ଜତାର ବାଲା ଧ ମିଳନ ରେଡିଅମ୍ ପ୍ରଚେତନତା ରଥରେ ସଜ୍ଜ ସାଧୁ ସହ ରଥ ଗତିଲା ବ୍ଲକ୍ ନମ୍ବର ୩୫ ରେ ।

“ମୋ ଖାତ୍ ମୋ ଉର୍ଦ୍ଧ”

Tweet

BERHAMPUR MUNICIPAL CORPORATION
@BrahmapurCorp

BeMC organized a Street Play as a part of the **"#SafaiMitraSurakshaChallenge"** on 28.02.21 at WN 03 to prevent hazardous cleaning of septic tanks & promote their mechanized cleaning. Awareness was raised among the citizens to use 14420 Helpline Number. @MoHUA_India @HUDDeptOdisha

7:17 pm · 28 Feb 21 · Twitter for Android

Figure 26 Public awareness through radio jingles, social media and video messages

4.6 Nizampet

For enlightening and uplifting the Safaimitra, Nizampet Municipal Corporation has conducted the following IEC activities for public awareness under the Safaimitra Suraksha Challenge.

1. Yoga Training

The training was carried out by the members of Pragathinagar Yoga center at Puchalapalli Leela Sundarayya function hall, Pragathinagar. In which all Safaimitras attended yoga and awareness session on the associated health benefits of yoga.



Figure 27 Yoga sessions for Safaimitra

2. Flash play on official web portal

Flash play was shown on the official website of Nizampet municipal corporation. Through this people were getting aware about the duration of cleaning of septic tank, how and where to contact for the septic tank or sewer line Cleaning and Complaint, and about the protocols that safaimitras need to follow during septic tank or sewer cleaning if not then the legal actions that will be imposed on the responsible person.

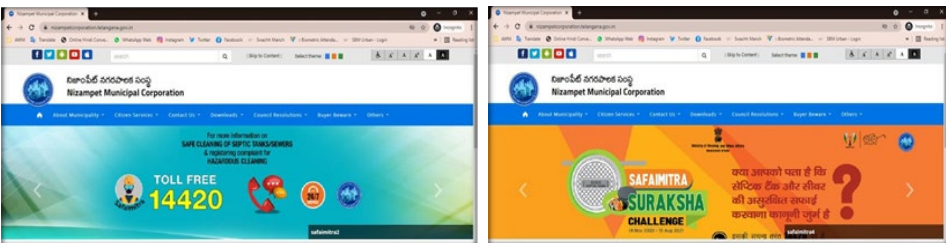


Figure 28 Flash play on Nizampet corporation website for safaimitras

3. Awareness Message

For creating awareness the Nizampet Corporation had taken various initiatives like spreading awareness messages through desludging vehicles, door-to-door messages, or through wall painting. People should be well versed about the cleaning of the septic tank, know-how and where to contact for Septic tank or Sewer line cleaning and Complaint, etc.



Figure 29 Awareness messages through desludging vehicles, door-to-door messages and wall painting

4. Rally and 5k Run Event

The 5K Freedom Run was initiated to promote Safaimitra Suraksha challenge helpline number '14420', a ban on manual scavenging and single-use plastic. The run started from the Pragathinagar STP plant towards Pargathi Nagar Kaman bawarchi. About 500 People were awarded during this event. Another rally Campaign was initiated to enlighten the people through slogans and banners on the consequences of the use of single-use plastic, ban on manual scavenging, and fine for breaking the rule. It was started from Bhavya Anandam and ended at HP petrol pump ward no 14. About 700 People were aware of the consequences and the fine for the same.



Figure 30 Rally and 5k Event organised by the corporation for Safaimitras

4.7 Shahjahanpur

The Shahjahanpur Corporation has initiated various IEC activities such as Door-to-door audio messaging through door-to-door collection vehicles, Posters, Street plays, Ads on vehicles, etc to aware and effectively implement this challenge.



Figure 31 IEC activities organised by Shahjahanpur



Figure 32 Distribution of PPE kits to safaimitras

The corporation has also adopted innovative ways to reduce hazardous cleaning by implementing the 'Safai Mitra Rakshak' award among the citizen of ULB. They have issued a notification for the "Safai Mitra Rakshak Award" for the persons who complain through 14420 or WhatsApp on the registered No. for unsafe and Unhygienic Cleaning of septic Tank. Award will be given on 2nd October 2021 on the Birth Anniversary of Mahatma Gandhi.

4.8 Singrauli

Public awareness campaigns were organized by Singrauli Municipal Corporation through social media campaigns and video messages. The primary aim was to aware the sanitation workers of their health and safety and to sensitize the citizens with respect to the possible hazards that can take place in the absence of mechanized cleaning.

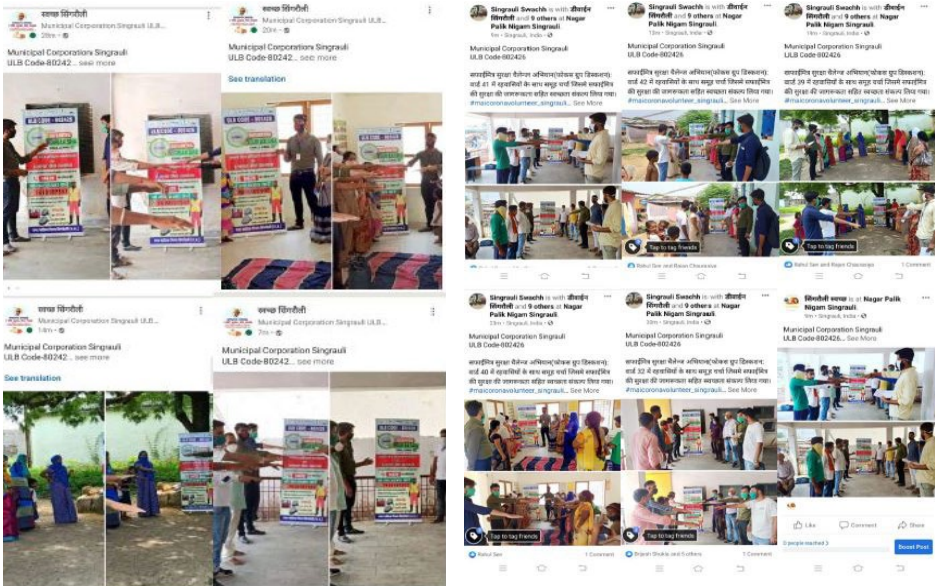


Figure 33 Social Media campaigns

Also, the corporation has adopted innovative approaches under this challenge. They had established the Trans Bio-Filter (ETP) at Tali Nala which is located at Ganiyari. The approximate capacity is around 10 to 20 KLD and 20-30 KLD on rainy and non-rainy days respectively. A unique effort is being made to treat the water from the drains. The easiest and most cost-effective wastewater treatment solution, the trans bio-filter concept is “design with nature” how to work cooperatively with nature, while at the same time learning the tools of modern science. It’s a decentralised system for the treatment of wastewater at its source.

An Aerobic Bio-filtration (ETP) plant has been constructed near the nallah dam site, which has a capacity of 30kld and after treating the water, it produced 30,000 Ltr. of treated water which is being used for three different purposes: -

- Free use for gardening of PMAY Awaas
- Being sold to Contractor Garbage plant
- Free use for local agriculturists for irrigation purposes



Figure 34 ETP plant at Ganiyari

4.9 Adityapur

The Adityapur Municipal Corporation undertook various IEC activities to promote the mechanised cleaning of sewer and septic tanks.



Figure 35 IEC activities by Adityapur Municipal Corporation

4.10 Panchkula

The Panchkula municipal corporation has been distributing PPE kits with different gears as per guidelines for Safai Mitras. They have also initiated various public awareness campaigns through uni poles and municipal corporation portal to aware the sanitation workers of their health and safety and to sensitize the citizens with respect to the possible hazards that can take place in the absence of mechanized cleaning.



Figure 36 The Corporation distributing PPE kits to safaimitras

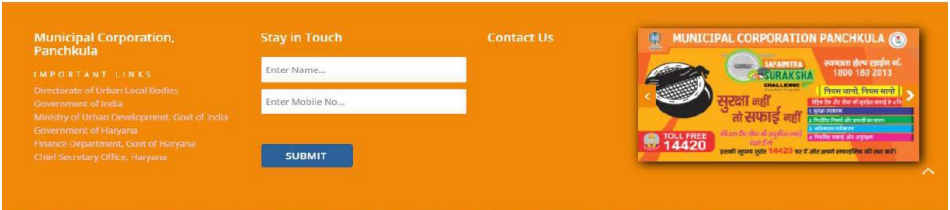
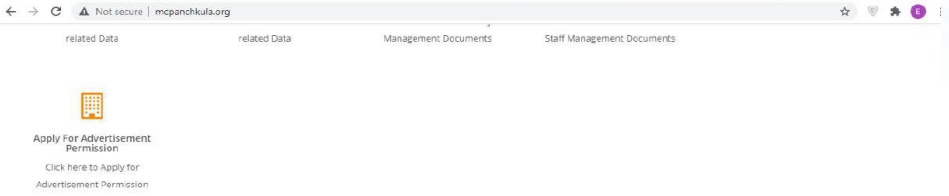






Figure 37 Public awareness campaigns through unipoles and municipal corporation portal

5. Resource Persons' Profile

For conducting the training program under SMSC challenge across India, sector experts from various agencies, organizations, and Institutes were engaged to deliver the sessions to the cities. The profiles of the sector experts are provided in this report.

Table 2 Resource persons' profile under Safaimitra Suraksha Challenge

Name	Bio
 <p data-bbox="133 782 301 804">Dr Nitesh Sharma</p>	<p data-bbox="353 491 1025 850">He's an advisor to the Urban Department of Government of Chhattisgarh and has experience of over 20 years in the Urban Sector covering diverse fields of Urban development such as Sustainable Development, Solid Waste Management, Livelihood Missions, Water Supply, etc. In his many achievements, the one which highlights itself is bringing Chhattisgarh State to rank one all over India in Swachh Survekshan 2019 and taking Ambikapur to become the 2 cleanest cities of India. He has pioneered and championed the cause of sustainable sanitation. He was instrumental in the implementation of the Ambikapur Model across the state of Chhattisgarh under the banner of Mission Clean city. He holds a doctorate along with an MBA and Bachelor of Engineering degree in Electronics and Communication. With this wide range of educational qualifications and multi-sector experience he understands the requirements of sustainable cities and also understands how to achieve the same.</p>
 <p data-bbox="133 1127 301 1149">Mr Jobin Joseph</p>	<p data-bbox="353 884 1025 1149">Mr Jobin Joseph is an IEC Expert (Consultant) to the Urban Department, Government of Chhattisgarh. He has experience of over 5 years in Planning, Executing, Monitoring and Evaluation of IEC/BCC Campaigns. He was instrumental in the implementation of campaigns based on sanitation, hygiene, household waste segregation, plastic waste management, Eradication of manual scavenging, uplifting the socio-economic status of sanitation workers for the Urban Department and campaigns on road safety for Chhattisgarh police. With his B.Tech. in Media and Social work experience, he has widely helped Chhattisgarh Government in improving the living environment by the implementation of strategically planned IEC Campaigns.</p>
 <p data-bbox="133 1438 301 1460">Mr Manohar Krishna</p>	<p data-bbox="353 1195 1025 1439">He is a graduate in Commerce and an MBA from the Indian Institute of Management, Bangalore. He was always passionate about the environment and in the early nineties he and an ex-colleague set up Kam-Avida with a meagre share capital of INR 501/-. In a time when cleaning was looked down upon and considered a job reserved for the backward sections of society – Krishna ventured in head-first, to develop the Solid and Liquid Waste Management Industry in India. Under the company-wide philosophy of Cleaning and Maintenance with Ease and Dignity, Kam-Avida now boasts of over 7000 machines running nationwide and hundreds of lives of Safai Karamchari's improved.</p>

Name	Bio
 <p data-bbox="156 403 322 449">Mr Sanjay Kumar Deharia</p>	<p data-bbox="374 211 1049 403">He's posted in Madhya Pradesh as a Regional Business facilitation manager for execution, implementation, Training capacity building and Business facilitation. He has more than 16 years of experience in the e-gov profession including Public procurement policy and the GeM process. He has delivered more than 250 GeM workshops/Webinars and sessions successfully including Buyers Central Govt / State Govt / PSUs / Banks and institutions and industries associations MSME associations and industry partners like FICCI, DICCI, PHDCCI, LUB, CCI etc.</p>
 <p data-bbox="156 715 322 736">Ms Akhila Sivasdas</p>	<p data-bbox="374 493 1049 732">She is a founder member and Executive Director of the Centre for Advocacy and Research. She has been working in the WASH sector from 2006 both in mega and capital cities -Delhi, Jaipur, Bhubaneswar, Pune and Kolkata and in many other smaller Towns-Jodhpur and Sambalpur. Over this decade and a half and more so in the last five to six years in the context of the urban Swachh Bharat Mission she and her team have had the opportunity to work in a very granular way on improving the knowledge, aspiration and collective effort of the urban poor to access and avail safely managed sanitation. It is this experience and expertise she will be sharing with us</p>
 <p data-bbox="156 1028 322 1048">Dr Himani Tiwari</p>	<p data-bbox="374 811 1049 1002">She is a coordinator under the City Manager's Association, Directorate of Local Bodies, and Government of Rajasthan. She has an expertise of 23 years in the WASH Sector with a speciality in the role of Community Participation. She also has a was an experience of around 10 years as an Associate Professor in the Environment Sector and 5 years experience in USAID. Her biggest achievement was, being awarded by the Hon'ble CM, Govt. of Rajasthan twice (2016 and 2018) under the Swachh Bharat Mission at the State Level.</p>
 <p data-bbox="156 1303 322 1323">Mr Rakesh Kasba</p>	<p data-bbox="374 1103 1049 1294">He's Co-founder and innovator at JALODBUST. Inventor, implementer, and entrepreneur serving those who serve. Aspiring to reach 6.00 lakh Villages and 4000 Towns to end Manual Scavenging. JALODBUST, a globally awarded innovation, will provide sight, smell and splash-free emptying of faecal sludge from pit based toilets and manholes. He's a Project Manager of Mega Projects, Ex. Govt Officer and has 30+ Years in Hydro Power Construction, now a full-time hardware-led social entrepreneur.</p>

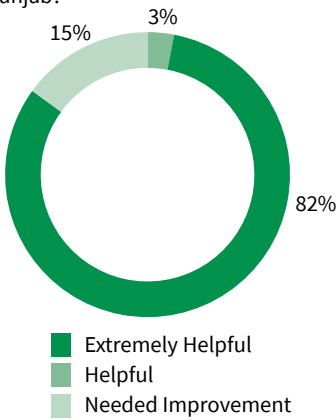
Name	Bio
 <p data-bbox="127 401 306 432">Mr Mandeep Singh</p>	<p data-bbox="353 266 1026 317">He's at GG enterprise with expertise in the use of equipment's for mechanised cleaning</p>
 <p data-bbox="127 669 306 705">Mr Niladri Chokrabarti</p>	<p data-bbox="353 556 816 582">He's a faculty at Institute for Human Settlements.</p>
 <p data-bbox="127 951 306 976">Mr Pashim Tewari</p>	<p data-bbox="353 722 1026 987">He is an expert in urban development and sustainable studies, having worked extensively with the state and local governments in India. Presently, he is the Technical Director at All India Institute of Local Self Government (AIILSG). Before joining AIILSG, he has worked with SEEDs India and as an Advisor ICT in Delhi Mumbai Industrial Development Corridor. He is spearheading projects in AIILSG (North and West). His strength lies in developing and implementing frameworks for making environmentally friendly and sustainable cities. He has also worked extensively with UNDP, UNWOMEN and other developmental agencies for developing reports and publication on several subjects including MNERGA, RGGVY, Climate change, etc.</p>
 <p data-bbox="127 1221 306 1246">Mr Mohit Verma</p>	<p data-bbox="353 1069 1026 1188">He is working as an Executive Engineer in Punjab Water Supply and Sewerage Board, Ho, Chandigarh. He has expertise in Sewerage Treatment, Low-cost Mechanization, implementation of mechanization, Low-cost In-Situ remediation, application of IIT in drinking water sampling and surveillance.</p>
<p data-bbox="127 1337 306 1362">Mr Manohar Reddy</p>	<p data-bbox="353 1286 1026 1405">He's an Environmental Engineer at Swachh Andhra Corporation. He's Professional in renewable energies and conversion technologies specialized in Integrated waste management & energy recovery and Rural development along with hands-on experience in industrial automation and specific process logic development</p>

6. Feedback

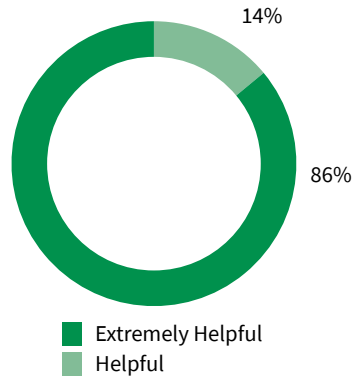
During the workshop under this challenge, polls were conducted to understand the feedback of the participants on the online sessions organized by NIUA.

The summary of “*Coordination and Experience Sharing Meeting -I*” feedback polls are as follows:

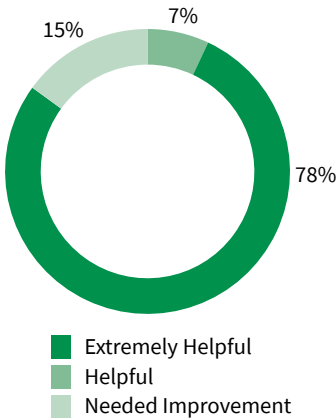
Question 1: How helpful was today’s Session on the innovation of sewer cleaners and suckers by Mr Mohit Verma, Government of Punjab?



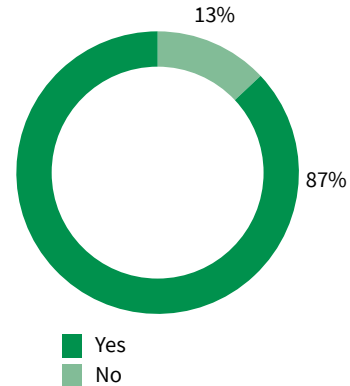
Question 2: How helpful was today’s Session on procurement from GeM Portal by Mr Himanshu?



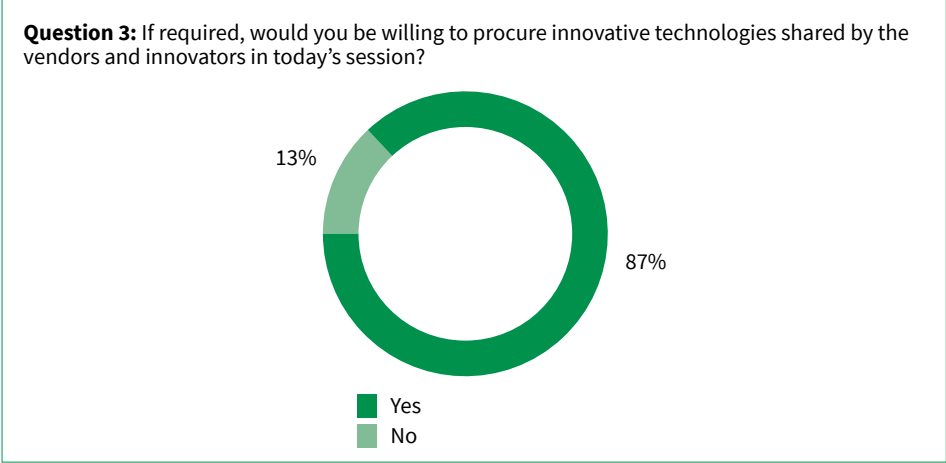
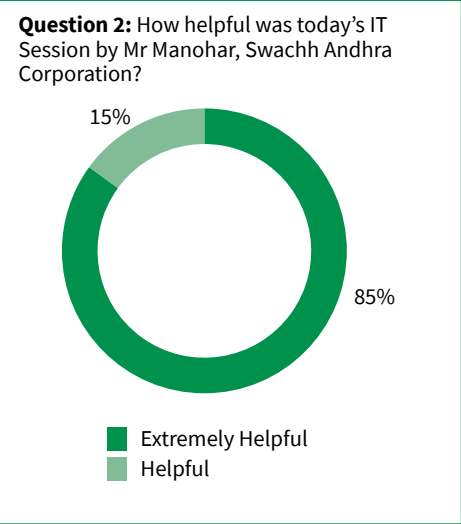
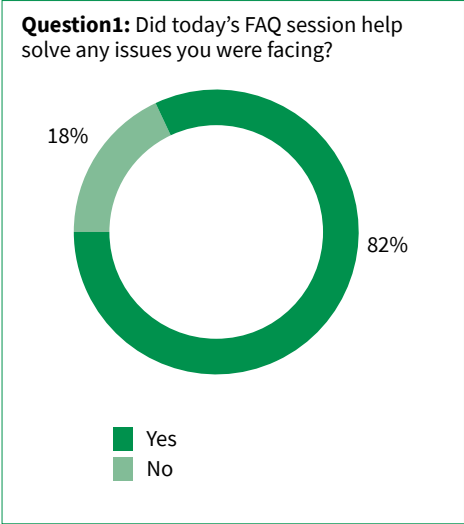
Question 3: How helpful was today’s Session on Beneficiary loans from NSKFDC by Mr K K Bhagat?



Question 4: Does experience sharing from other agencies and NGOs provide direction to your work?



The summary of “*Coordination and Experience Sharing Meeting -II*” feedback polls are as follows:



7. Recommendation and Way Forward

The ongoing pandemic prompted NIUA to hold the capacity building sessions online. Despite the challenges of the online mode, the participation in most of the sessions was over 150 participants. In many cases, several officials joined from one connection. Therefore, in terms of people who benefitted, the number is much higher. The sessions have led to an improved awareness in Urban Local Bodies (ULBs) on ways to efficiently adapt and manage mechanized cleaning of sewers and septic tanks.


Several ULBs have expressed the desire for handholding in the procurement of equipment and further imparting sessions to improve the skill of workers for the operation and maintenance of equipment and machines procured. As more cities join the challenge subsequently, it would help to celebrate success, discuss challenges and setbacks to prevent many from committing the same mistakes.

To make an impact at the grass-root level, there is an immediate need to conduct continuous capacity building programmes on livelihood options and skill development of Safaimitras. The following suggestions can be considered:


- Conduct regular and customized training programs on affordable technologies, operation and maintenance of equipment and their Standard Operating Procedures (SOPs) for concerned officials and Safaimitras
- Empowerment of Safaimitras for skill development and alternate livelihood options
- Encourage adoption of innovative solutions offered by and start-ups and other solution providers
- Improve awareness among citizens through novel and transformative IEC campaigns on septic tank construction, desludging cycle, available techniques for cleaning, city helpline number, etc.
- Encourage more experience sharing and peer-to-peer learning on various aspects of the challenge
- Integrate the objectives of Safaimitra Suraksha Challenge (SMSC) with those of Swachh Bharat Mission - 2.0 - this challenge will eventually need to be extended to all cities that are part of SBM 2.0.
- Create an online training platform for monitoring capacity-building activities. This online platform may act as a repository of knowledge where comprehensive modules, information on good practices, posters, handbooks, etc. can be made available.
- Integrate SMSC indicators in the upcoming ranking of cities under Swachh Survekshan. This will help in monitoring and assessment of registered de-sludging operators, health and safety of sewer maintenance staff and use of mechanized cleaning machines.
- The above needs to be augmented by continuous technical assistance to ULBs for selection of machines and equipment, Information Education and Communication (IEC) strategies, MIS related support and assistance in the procurement process for equipment and machinery.

Annexure - I


Agenda of the Meetings




Ministry of Housing and Urban Affairs
Government of India



National Institute of Urban Affairs



स्वच्छ भारत
एक कदम स्वच्छता की ओर




SAFAIMITRA
SURAKSHA
CHALLENGE
From 2020 to 31 Aug 2021

COLLAB MEET FOR CITIES AND PARTNERS
As part of SMS challenge
December 28, 2020


Agenda	
2:30 - 2:40 pm	Introduction and findings of rapid city needs assessment & partner potentials - Ms. Paramita Datta Dey, Programme Lead, NIUA, New Delhi
2:40 - 3:40 pm	Activities, steps needed and support available from MoHUA , NIUA and partner organizations for SMS challenge - Mr. Rohit Kakkar, Deputy Advisor (CPHEEO), Ministry of Housing and Urban Affairs (MoHUA), Government of India, Mr. Anil Prakash, SBM- U (MoHUA)
3:40 – 4:00 pm	Experience sharing by partner organizations
4:00– 5:00 pm	Q&A session Panel members - Mr. Rohit Kakkar, Advisor, CPHEEO, MoHUA Ms. Sanghamitra Bhattacharyya, Mr. Anil Prakash, Mr. Prabal Bhardwaj, SBM-U (MoHUA)
5:00– 5:15 pm	Closing remarks



Ministry of Housing and Urban Affairs
Government of India



National Institute of Urban Affairs



स्वच्छ भारत
एक कदम स्वच्छता की ओर



SAFAIMITRA
SURAKSHA
CHALLENGE
From 2020 to 31 Aug 2021

COORDINATION MEET - 1 FOR CITIES AND PARTNERS
As part of SMS challenge
January 15, 2021

Agenda	
2:30 - 2:40 pm	Welcome Remarks by Ms. Paramita Datta Dey, Programme Lead, NIUA
2:40 - 3:20 pm	Use of Affordable and Innovative Technologies in Punjab - Mr. Mohit Verma, Executive Engineer, Punjab Water Supply and Sewerage Board, Government of Punjab
3:20 - 4:00 pm	Process Flow for Shortlisting and Procurement of Items from GEM Portal– Mr. Himanshu Chaturvedi, PMU, MoHUA
4:00 - 4:30 pm	Highlights of Loan Mela by NSKFDC - Mr. K. K. Bhagat, Chief Manager (Projects), NSKFDC
4:30– 5:00 pm	Use of Equipment for Mechanised Sewage Cleaning– Presentation by Mr. Priyashil Choubey, TPS Infrastructure limited
5:00– 5:20 pm	Experience of Capacity Building for officials of Bruhat Mumbai Municipal Corporation - Dr. (Prof.) Sneha Palnitkar, CEO, Waste Management Resource Centre, and Ms. Madhura Palnitkar, Programme Director, Centre for the Study of Social Change
5:20 5:30 pm	Closing remarks

COORDINATION AND EXPERIENCE SHARING MEETING - II
For cities and partners as part of SMS challenge
February 10, 2021

Agenda

2:30 - 3:00 pm	FAQs related to MIS for Safaimitra Suraksha Challenge- Mr. Anil Prakash, SBM- U (MoHUA)
3:40- 3:30 pm	IT related solutions for SMS Challenge(including integrating local helpline numbers with common helpline number, and necessary architecture, etc.)- Shri. Sampath Kumar, State Mission Director, Andhra Pradesh
3:30 - 4:00 pm	Use of IEC and communication campaigns in SMS Challenge- Mr. Nitesh Sharma, Advisor, SUDA, Chhattisgarh
4.00 – 5.00 pm	Experience Sharing by Partner Organizations: -Mr. Niladri Chakraborti, Faculty, IIHS -Mr. Paschim Tiwari, Technical Director, AILSG Delhi
5:00– 5:15 pm	Closing remarks

OPEN HOUSE FOR SAFAIMITRA SURAKSHA CHALLENGE
March 16, 2021

Agenda

3:15 - 3:30 pm	Introduction and Welcome Note- Ms. Paramita Datta Dey, Programme Lead, NIUA
3:30 - 4:00 pm	FAQs related to Safaimitra Suraksha Challenge -Mr. Rohit Kakkar, Deputy Advisor (CPHEEO), MoHUA, GoI -Mr. Anil Prakash, NIUA, MoHUA
4:00 - 4:30 pm	Insights on Skill Development for Safaimitra Suraksha Challenge -Mr. Prabal Bhardwaj, PMU, SBM-U (MoHUA)
4.30 - 4.45 pm	FAQs related to National Helpline Number for Safaimitra Suraksha Challenge '14420' - Mr. Rahul Jha, PMU, SBM-U (MoHUA)
4:45 - 5:00 pm	Closing remarks- Ms. Paramita Datta Dey, Programme Lead, NIUA

Annexure - II

List of Participating Cities

LIST OF PARTICIPATING CITIES

Sl. No.	State	Participating cities
1	Andaman & Nicobar Islands	Port Blair
2	Andhra Pradesh	Anantapur
3	Andhra Pradesh	Chittoor
4	Andhra Pradesh	Eluru
5	Andhra Pradesh	Guntur
6	Andhra Pradesh	GVMC Visakhapatnam
7	Andhra Pradesh	Kadapa
8	Andhra Pradesh	Kakinada
9	Andhra Pradesh	Kurnool
10	Andhra Pradesh	Machilipatnam
11	Andhra Pradesh	Nellore
12	Andhra Pradesh	Ongole
13	Andhra Pradesh	Rajahmundry
14	Andhra Pradesh	Srikakulam
15	Andhra Pradesh	Tirupati
16	Andhra Pradesh	Vijayawada
17	Andhra Pradesh	Vizianagaram
18	Arunachal Pradesh	Itanagar
19	Arunachal Pradesh	Pasighat
20	Assam	Guwahati
21	Bihar	Ara
22	Bihar	Begusarai
23	Bihar	Bhagalpur
24	Bihar	Biharsharif
25	Bihar	Chapra
26	Bihar	Darbhanga
27	Bihar	Gaya
28	Bihar	Katihar
29	Bihar	Munger
30	Bihar	Muzaffarpur
31	Bihar	Patna
32	Bihar	Purnia
33	Chandigarh	Chandigarh

34	Chhattisgarh	Ambikapur
35	Chhattisgarh	Bhilai charoda (m)
36	Chhattisgarh	Bhilai nagar
37	Chhattisgarh	Bilaspur
38	Chhattisgarh	Birgaon (m)
39	Chhattisgarh	Chirmiri
40	Chhattisgarh	Dhamtari (m)
41	Chhattisgarh	Durg
42	Chhattisgarh	Jagdalpur
43	Chhattisgarh	Korba
44	Chhattisgarh	Raigarh
45	Chhattisgarh	Raipur
46	Chhattisgarh	Rajnandgaon
47	Chhattisgarh	Risali
48	Dadra and Nagar Haveli, Daman and Diu	Daman
49	Dadra and Nagar Haveli, Daman and Diu	Diu
50	Dadra and Nagar Haveli, Daman and Diu	Silvassa
51	Delhi	East delhi (EDMC)
52	Delhi	New Delhi Municipal Council
53	Delhi	North delhi (North MCD)
54	Delhi	South delhi (SDMC)
55	Goa	Panaji
56	Gujarat	Ahmedabad
57	Gujarat	Bhavnagar
58	Gujarat	Dahod
59	Gujarat	Gandhinagar
60	Gujarat	Jamnagar
61	Gujarat	Junagadh
62	Gujarat	Rajkot
63	Gujarat	Surat
64	Gujarat	Vadodara
65	Haryana	Ambala
66	Haryana	Faridabad
67	Haryana	Gurgaon
68	Haryana	Hisar
69	Haryana	Karnal
70	Haryana	Panchkula
71	Haryana	Panipat
72	Haryana	Rohtak
73	Haryana	Sonipat
74	Haryana	Yamunanagar

75	Himachal Pradesh	Dharmsala
76	Himachal Pradesh	Shimla
77	Jammu and Kashmir	Jammu
78	Jammu and Kashmir	Srinagar
79	Jharkhand	Adityapur
80	Jharkhand	Chas
81	Jharkhand	Deoghar
82	Jharkhand	Dhanbad
83	Jharkhand	Giridih
84	Jharkhand	Hazaribag
85	Jharkhand	Mango
86	Jharkhand	Medininagar (Daltonganj)
87	Jharkhand	Ranchi
88	Karnataka	Belagavi CC
89	Karnataka	Bellary
90	Karnataka	Bruhat bengaluru mahanagara palike
91	Karnataka	Davanagere
92	Karnataka	Gulbarga
93	Karnataka	Hubli-dharwad
94	Karnataka	Mangalore
95	Karnataka	Mysore
96	Karnataka	Shivamogga CC
97	Karnataka	Tumakuru CC
98	Karnataka	Vijayapura CC
99	Kerala	Kannur (m)
100	Kerala	Kochi
101	Kerala	Kollam
102	Kerala	Kozhikode
103	Kerala	Thiruvananthapuram
104	Kerala	Thrissur
105	Ladakh	Leh
106	Madhya Pradesh	Bhopal
107	Madhya Pradesh	Burhanpur
108	Madhya Pradesh	Chhindwara
109	Madhya Pradesh	Dewas
110	Madhya Pradesh	Gwalior
111	Madhya Pradesh	Indore
112	Madhya Pradesh	Jabalpur

113	Madhya Pradesh	Katni
114	Madhya Pradesh	Khandwa
115	Madhya Pradesh	Morena
116	Madhya Pradesh	Ratlam
117	Madhya Pradesh	Rewa
118	Madhya Pradesh	Sagar
119	Madhya Pradesh	Satna
120	Madhya Pradesh	Singrauli
121	Madhya Pradesh	Ujjain
122	Maharashtra	Ahmednagar
123	Maharashtra	Akola
124	Maharashtra	Amravati
125	Maharashtra	Aurangabad
126	Maharashtra	Bhiwandi nizampur
127	Maharashtra	Chandrapur
128	Maharashtra	Dhule
129	Maharashtra	Greater mumbai
130	Maharashtra	Jalgaon
131	Maharashtra	Kalyan dombivali
132	Maharashtra	Kolhapur
133	Maharashtra	Latur
134	Maharashtra	Malegaon
135	Maharashtra	Mira-bhayandar
136	Maharashtra	Nagpur
137	Maharashtra	Nanded waghala
138	Maharashtra	Nashik
139	Maharashtra	Navi mumbai
140	Maharashtra	Panvel
141	Maharashtra	Parbhani
142	Maharashtra	Pimpri chinchwad
143	Maharashtra	Pune
144	Maharashtra	Sangli
145	Maharashtra	Solapur
146	Maharashtra	Thane
147	Maharashtra	Ulhasnagar

148	Maharashtra	Vasai virar
149	Manipur	Imphal
150	Meghalaya	Shillong
151	Mizoram	Aizawl
152	Nagaland	Kohima
153	Odisha	Bhubaneswar
154	Odisha	Brahmapur (M corp)
155	Odisha	Cuttack
156	Odisha	Raurkela town (m)
157	Odisha	Sambalpur town (m)
158	Puducherry	Oulgaret
159	Puducherry	Puducherry
160	Punjab	Abohar (m cl)
161	Punjab	Amritsar
162	Punjab	Batala (m cl)
163	Punjab	Bathinda
164	Punjab	Hoshiarpur (m cl)
165	Punjab	Jalandhar
166	Punjab	Kapurthala
167	Punjab	Ludhiana
168	Punjab	Moga
169	Punjab	Pathankot
170	Punjab	Patiala
171	Punjab	Phagwara
172	Punjab	S.A.S. Nagar (mohali)
173	Rajasthan	Ajmer
174	Rajasthan	Bharatpur (m cl)
175	Rajasthan	Bikaner
176	Rajasthan	Jaipur Greater
177	Rajasthan	Jaipur heritage
178	Rajasthan	Jodhpur North
179	Rajasthan	Jodhpur south
180	Rajasthan	Kota North
181	Rajasthan	Kota south
182	Rajasthan	Udaipur (m cl)
183	Sikkim	Gangtok
184	Sikkim	Namchi
185	Tamil Nadu	Avadi
186	Tamil Nadu	Chennai

187	Tamil Nadu	Coimbatore
188	Tamil Nadu	Dindigul
189	Tamil Nadu	Erode
190	Tamil Nadu	Hossur
191	Tamil Nadu	Madurai
192	Tamil Nadu	Nagarcoil
193	Tamil Nadu	Salem
194	Tamil Nadu	Thanjavur
195	Tamil Nadu	Thoothukudi corporation
196	Tamil Nadu	Tiruchirappalli
197	Tamil Nadu	Tirunelveli
198	Tamil Nadu	Tiruppur
199	Tamil Nadu	Vellore
200	Telangana	Greater Hyderabad Municipal Corporation
201	Telangana	Karimnagar
202	Telangana	Khammam
203	Telangana	Nizamabad
204	Telangana	Nizampet
205	Telangana	Ramagundam
206	Telangana	Warangal
207	Tripura	Agartala
208	Uttar Pradesh	Agra
209	Uttar Pradesh	Aligarh
210	Uttar Pradesh	Prayagraj (M Corp.) (G)
211	Uttar Pradesh	Ayodhya M.corp
212	Uttar Pradesh	Bareilly
213	Uttar Pradesh	Firozabad (m.corp.)
214	Uttar Pradesh	Ghaziabad
215	Uttar Pradesh	Gorakhpur
216	Uttar Pradesh	Jhansi
217	Uttar Pradesh	Kanpur
218	Uttar Pradesh	Lucknow
219	Uttar Pradesh	Mathura-vrindavan (nn)
220	Uttar Pradesh	Meerut
221	Uttar Pradesh	Moradabad
222	Uttar Pradesh	Rampur
223	Uttar Pradesh	Saharanpur
224	Uttar Pradesh	Shahjahanpur (npp)
225	Uttar Pradesh	Varanasi

226	Uttarakhand	Dehradun
227	Uttarakhand	Haldwani
228	Uttarakhand	Hardwar
229	Uttarakhand	Kashipur
230	Uttarakhand	Kotdwara
231	Uttarakhand	Rishikesh
232	Uttarakhand	Roorkee (nn)
233	Uttarakhand	Rudrapur
234	West Bengal	Asansol
235	West Bengal	Bidhannagar
236	West Bengal	Chandannagar MC
237	West Bengal	Durgapur
238	West Bengal	Haldia
239	West Bengal	Howrah MC
240	West Bengal	Kolkata MC
241	West Bengal	New Town
242	West Bengal	Siliguri
243	Uttar Pradesh	Noida
244	Jharkhand	Jamshedpur
245	Odisha	Puri
246	Odisha	Balaosre

Annexure - III

Presentations

First

LAUNCH MEETING

19 November, 2020



ZONE WISE MAPPING OF ORGANIZATIONS AND INSTITUTES FOR TECHNICAL ASSISTANCE

NIUA's SUPPORT TO SAFAIMITRA SURAKSHA CHALLENGE

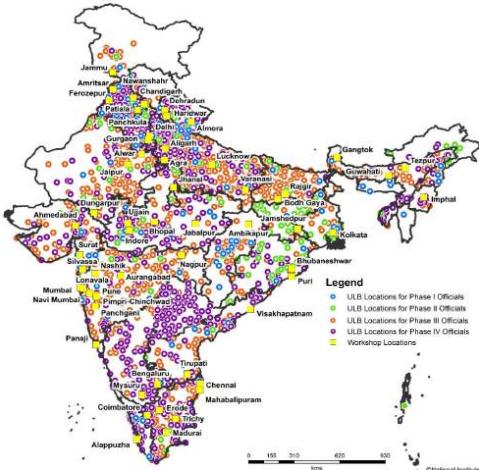
MoHUA has nominated NIUA to lead the capacity building initiative for the "Safaimitra Suraksha Challenge"

A ToT will mobilize the Regional Training Organizations on the Challenge

The ULBs will be assisted by the Regional Training Organizations to participate in the challenge



NIUA's ACHIEVEMENT IN CAPACITY BUILDING PROJECT UNDER SBM-U (2016-2020)



6160
Participants



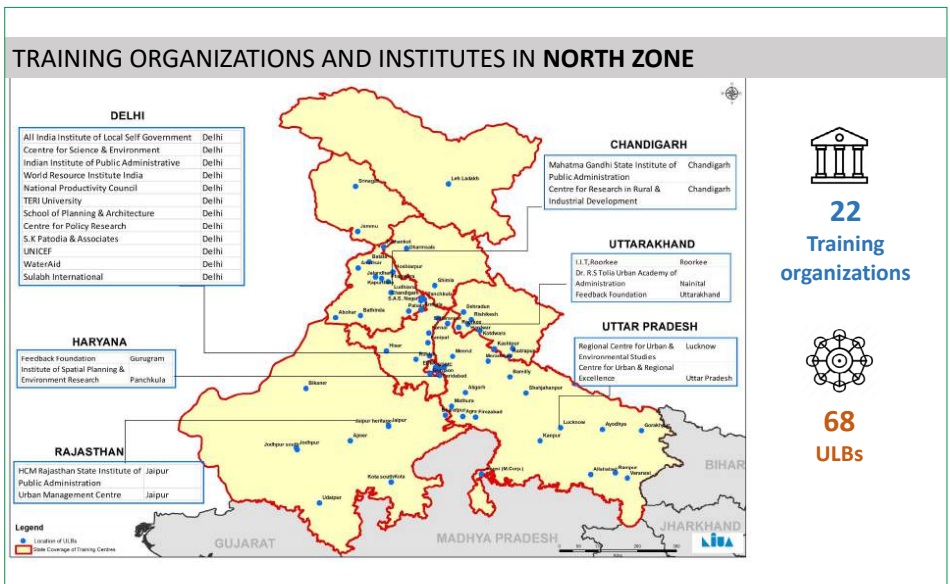
3221
ULBs participated



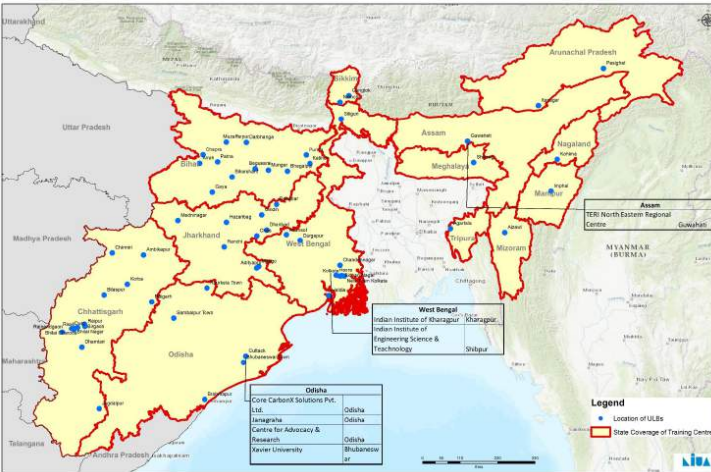
154
Workshops



58
Locations across India



TRAINING ORGANIZATIONS AND INSTITUTES IN EAST ZONE



7
Training organizations



59
ULBs

TRAINING ORGANIZATIONS AND INSTITUTES IN WEST ZONE

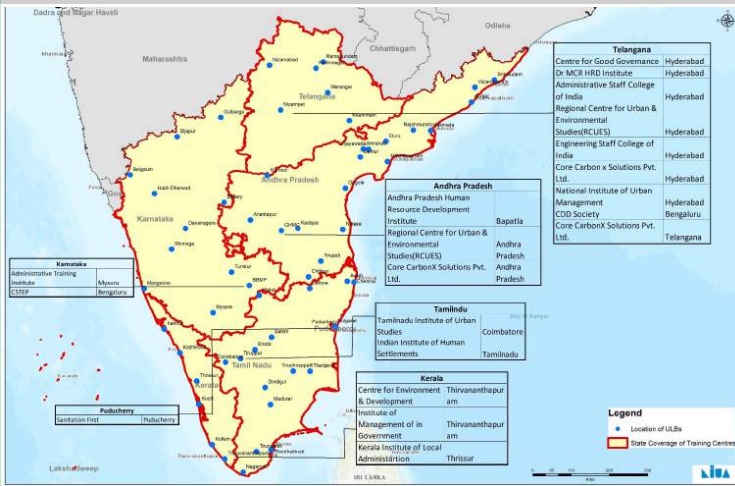


10
Training organizations



56
ULBs

TRAINING ORGANIZATIONS AND INSTITUTES IN SOUTH ZONE



20
Training organizations



59
ULBs

Thank You

National Institute of Urban Affairs
1st and 2nd Floor, Core 4B, India Habitat Centre,
Lodhi Road, New Delhi, Delhi 110003
Contact number - 011-2464 3284
email : director@niuua.org, hvaidya@niuua.org, niuua-sbm@niuua.org

Second
ORIENTATION MEETING
04 December, 2020



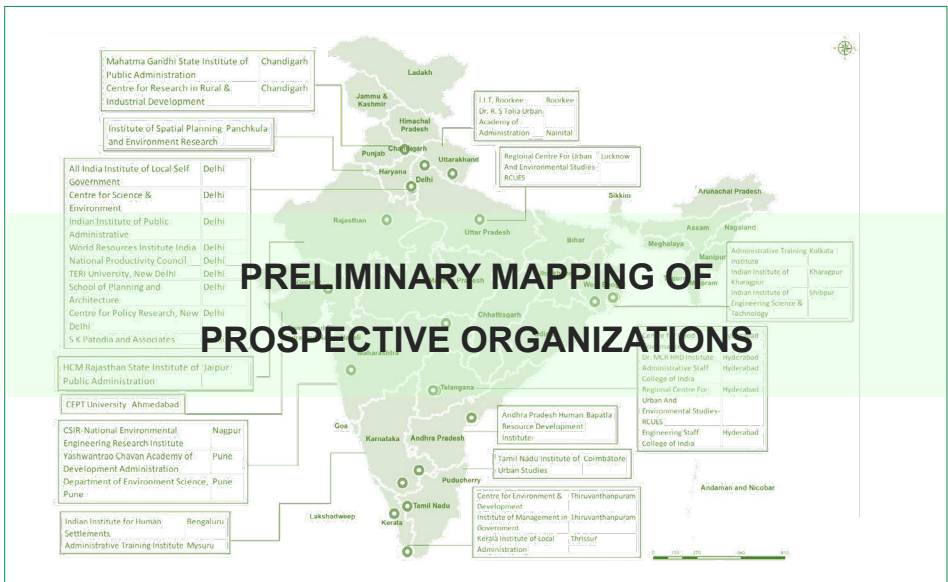
**MAPPING OF ORGANIZATIONS
FOR
TECHNICAL ASSISTANCE TO STATES AND ULBs**

NIUA's SUPPORT TO SAFAIMITRA SURAKSHA CHALLENGE

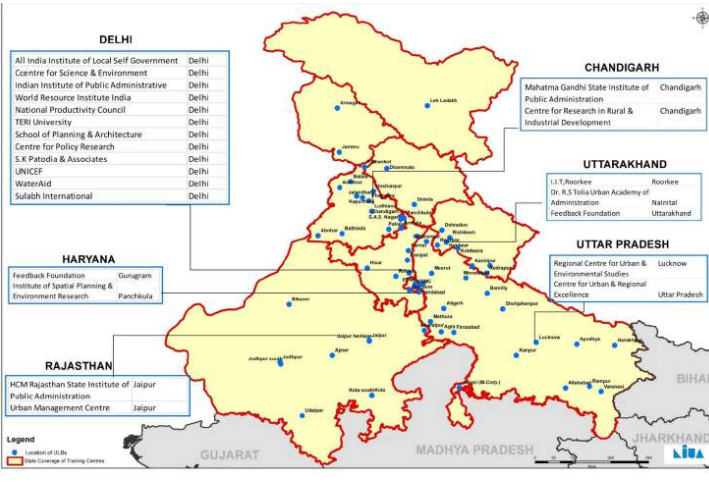
MoHUA has nominated NIUA to anchor the capacity building initiative for the "Safaimitra Suraksha Challenge"

An orientation meeting to mobilize partner organizations for the Challenge

The States and ULBs will be assisted by partner organizations to participate in the challenge



TRAINING ORGANIZATIONS AND INSTITUTES IN NORTH ZONE

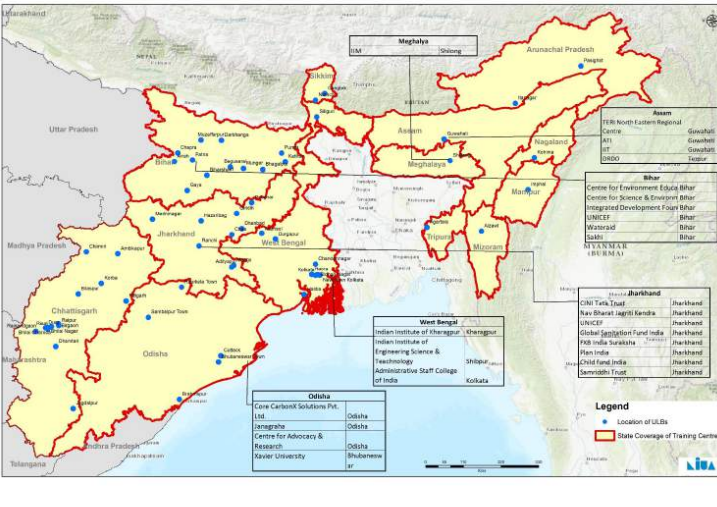


22
Organizations



68
ULBs

TRAINING ORGANIZATIONS AND INSTITUTES IN EAST ZONE

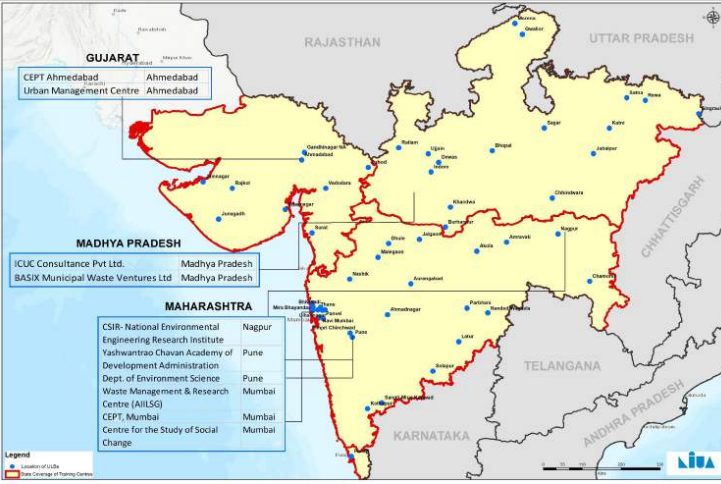


24
Organizations



59
ULBs

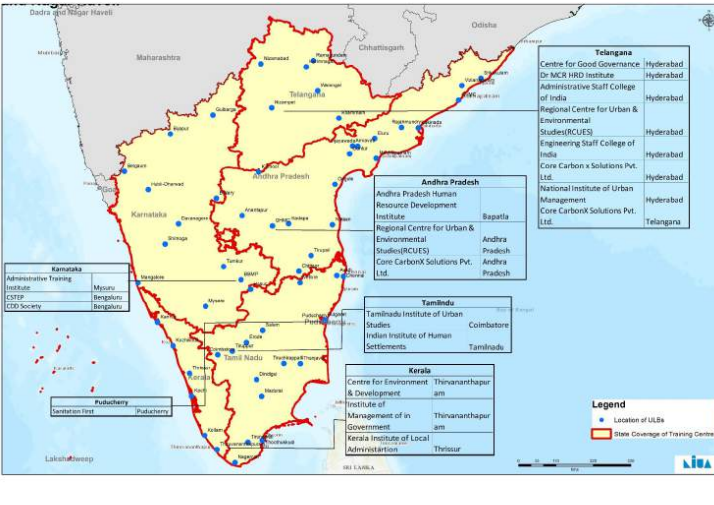
TRAINING ORGANIZATIONS AND INSTITUTES IN WEST ZONE




10
Organizations


56
ULBs

TRAINING ORGANIZATIONS AND INSTITUTES IN SOUTH ZONE

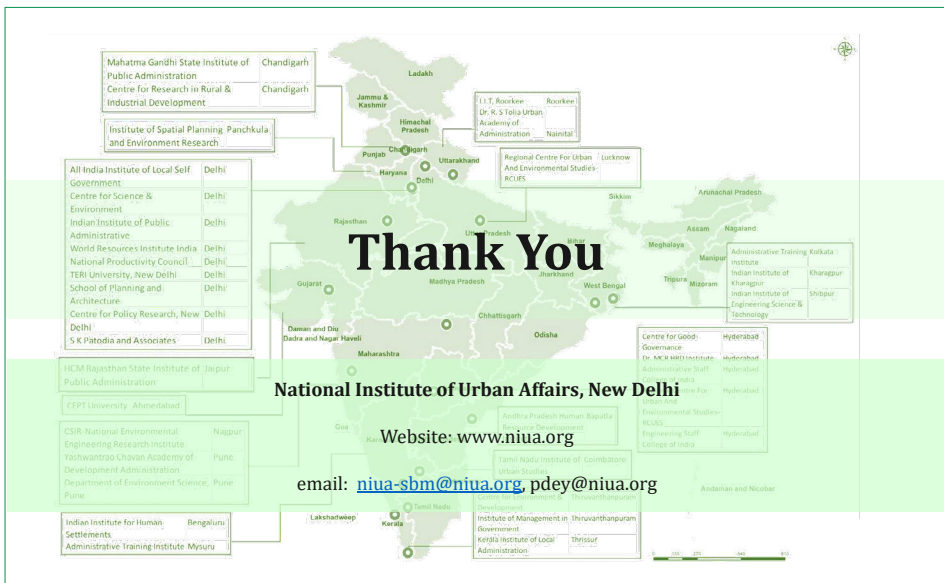



20
Organizations


59
ULBs

ACTIVITY PLAN

Activity	Tentative dates
Orientation meeting	4-Dec-20
Coordination meeting for cities and agencies - North Zone	15-Dec-20
Coordination meeting for cities and agencies - West Zone	16-Dec-20
Coordination meeting for cities and agencies - South Zone	17-Dec-20
Coordination meeting for cities and agencies - East Zone	18-Dec-20
Submission of activity plan to NIUA from the organizations in consultation with cities	30-Dec-20
1 st Monthly coordination meeting with organizations	19-Jan-20
2 nd Monthly coordination meeting with organizations	9-Feb-20
3 rd Monthly coordination meeting with organizations	9-Mar-20
4 th Monthly coordination meeting with organizations	9-Apr-20



Third
COLLAB MEET FOR CITIES AND PARTNERS
28 December, 2020



COLLAB MEETING
FOR
SAFAIMITRA SURAKSHA CHALLENGE
28 December 2020

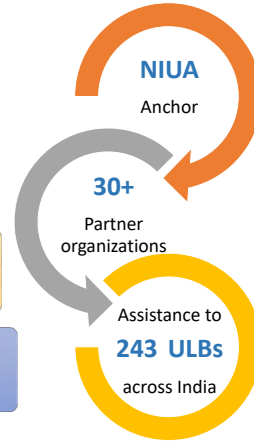
NIUA's SUPPORT TO SAFAIMITRA SURAKSHA CHALLENGE

MoHUA has nominated NIUA to anchor the capacity building initiative for the "Safaimitra Suraksha Challenge"

Orientation meeting to mobilize partner organizations for the Challenge – 4 Dec 2020

Collab Meeting with Cities and partners – 28 Dec 2020

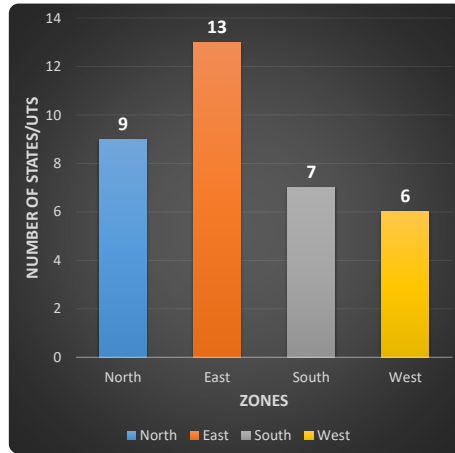
The States and ULBs will be assisted by partner organizations to participate in the challenge



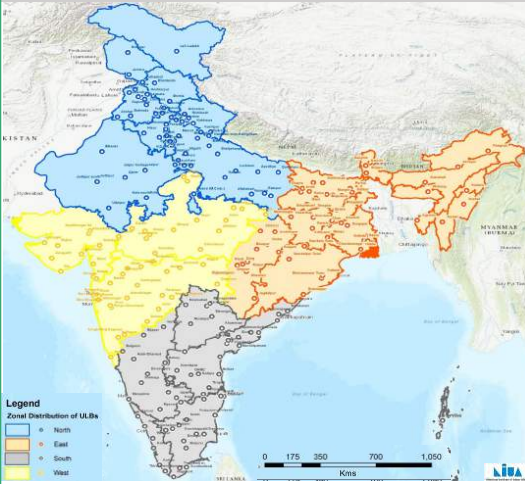
ZONAL DISTRIBUTION OF STATES/UTs

35 States and UTs are involved in the challenge

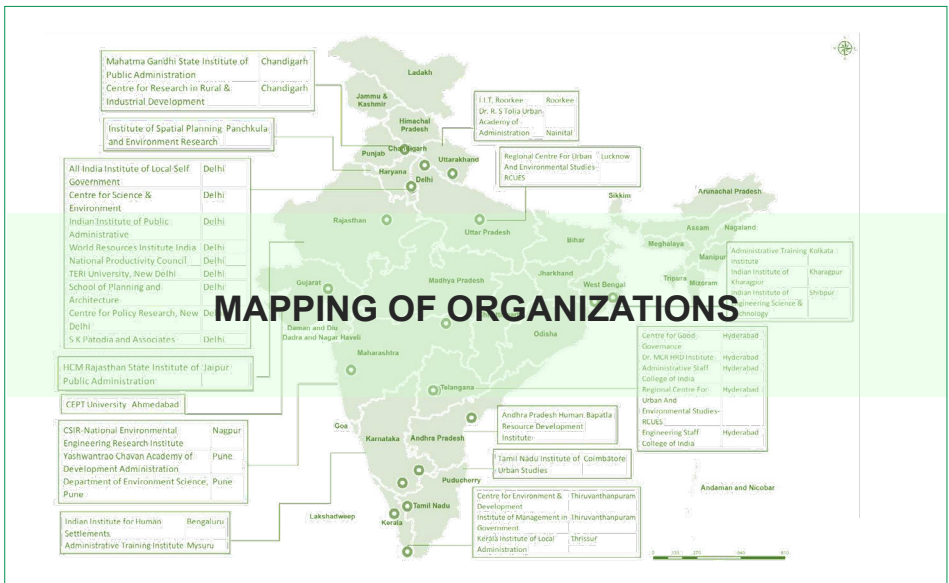
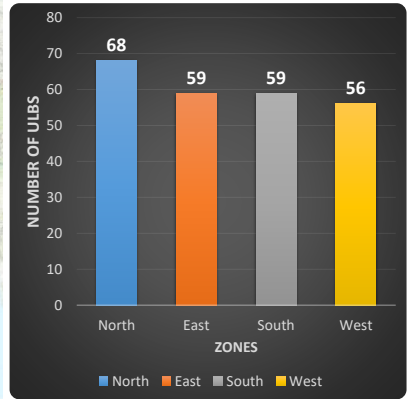
State/UTs	Zone	
Chandigarh	Punjab	
Delhi	Rajasthan	
Haryana	Uttar Pradesh	North
Himachal Pradesh	Uttarakhand	
Jammu & Kashmir	Leh	
Arunachal Pradesh	Mizoram	
Assam	Nagaland	East
Bihar	Odisha	
Chattisgarh	Sikkim	
Jharkhand	Tripura	
Manipur	West Bengal	
Meghalaya		
Andaman & Nicobar Island	Puducherry	South
Andhra Pradesh	Tamil Nadu	
Karnataka	Telangana	
Kerala		
Dadar & Nagar Haveli	Gujarat	West
Daman & Diu	Madhya Pradesh	
Goa	Maharashtra	



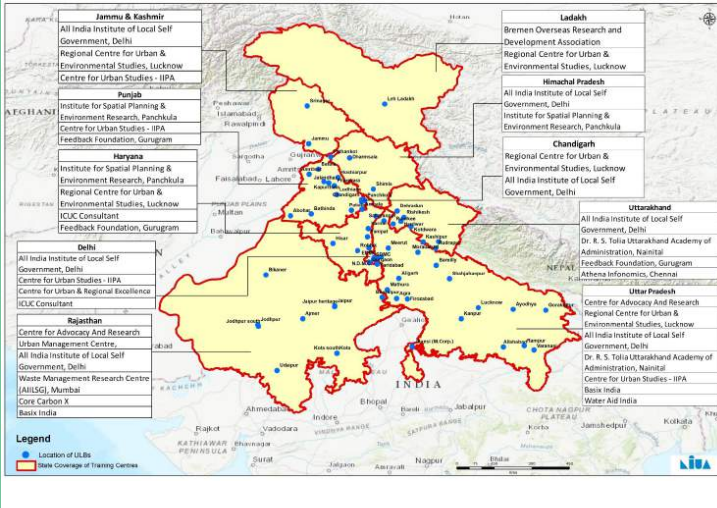
ZONAL DISTRIBUTION OF ULBs



Total 243 ULBs have been selected by MoHUA



TRAINING ORGANIZATIONS AND INSTITUTES IN NORTH ZONE

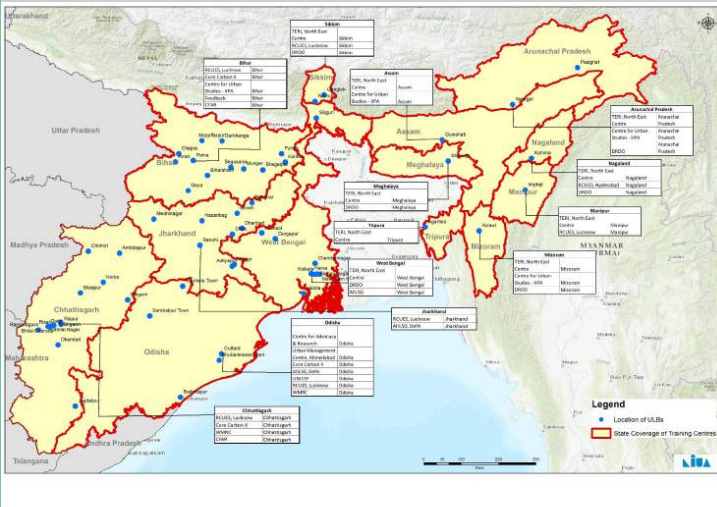


18
Organizations



68
ULBs

TRAINING ORGANIZATIONS AND INSTITUTES IN EAST ZONE

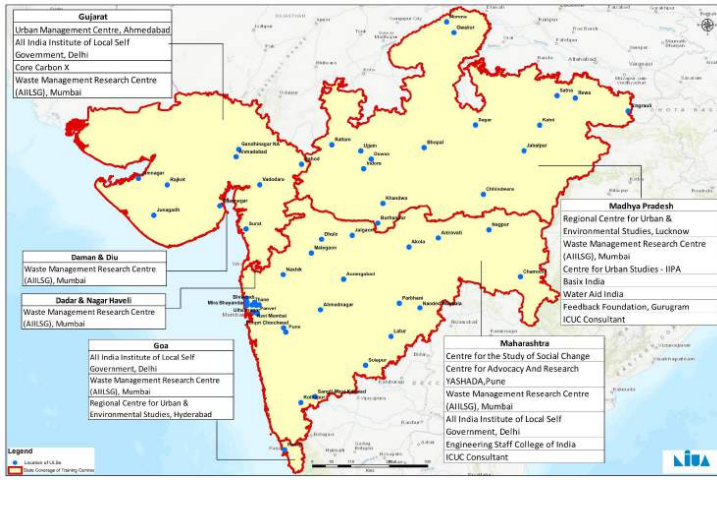


12
Organizations



59
ULBs

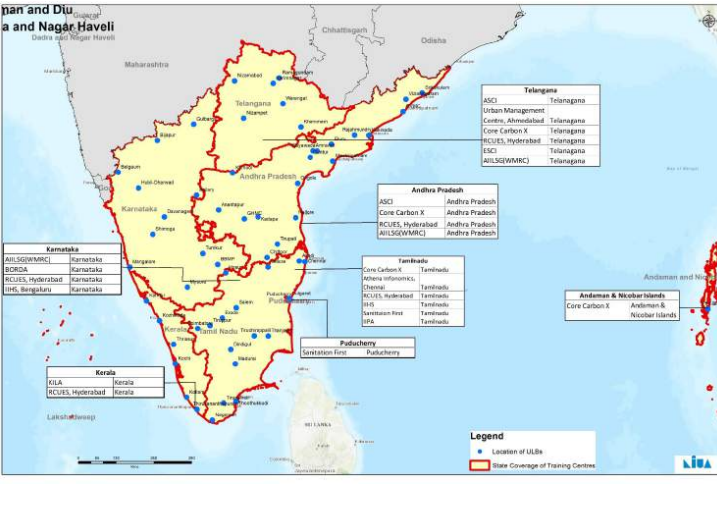
TRAINING ORGANIZATIONS AND INSTITUTES IN WEST ZONE




16
Organizations


56
ULBs

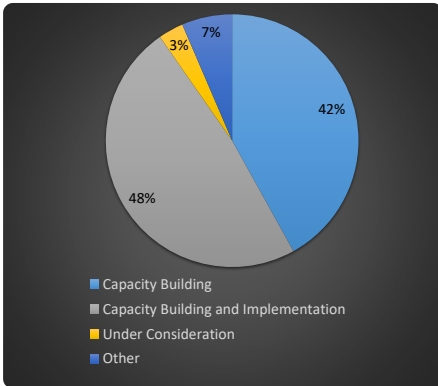
TRAINING ORGANIZATIONS AND INSTITUTES IN SOUTH ZONE




15
Organizations


59
ULBs

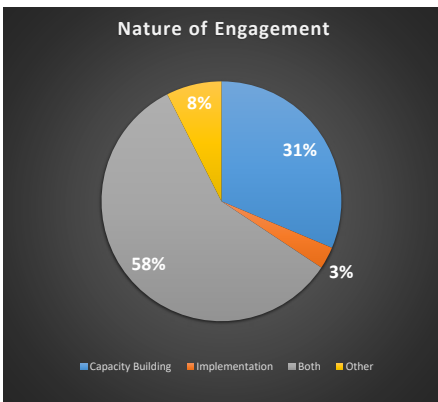
ENGAGEMENT OFFERED BY ORGANISATIONS



* Others include IEC, Research Studies and GIS based MIS

- 31 Organisations have shown interest to support the cities in this journey.
- The potential nature of engagement varies from capacity building, implementation and execution.
- Other kinds of engagements include Research, GIS Mapping, etc.
- Organisations and cities will further plan the nature of engagement

ANALYSIS OF CITY NEEDS ASSESSMENT (As Conveyed By Cities)



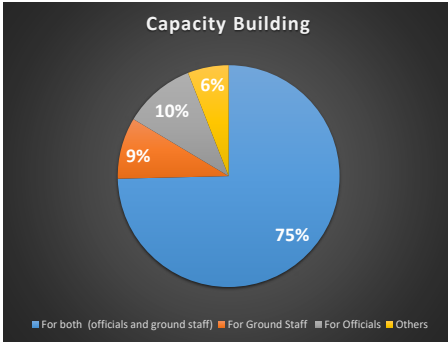
* Total number of response from cities – 67

Others include –

- Infrastructure development & enhancement of existing system.
- Financial assistance for procurement of mechanized cleaning equipment/vehicles and PPE Kits
- Financial assistance for construction of Sewer network in the ULB.
- Equipment for sewer cleaning.



ANALYSIS OF CITY'S CAPACITY BUILDING NEEDS (As Conveyed By Cities)



Others include training for -

NGOs
Non Government Organisations

RWAs
Resident Welfare Associations

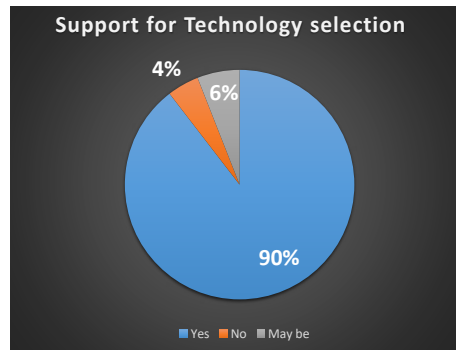
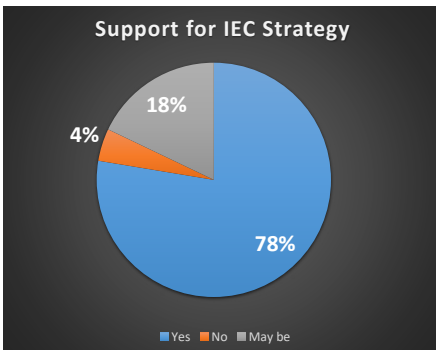
SHGs
Self Help Groups

SLFs
Slum Level Federations

TLFs
Town Level Federations

* Total number of response from cities – 67

Analysis of city capacity building needs (as conveyed by cities)



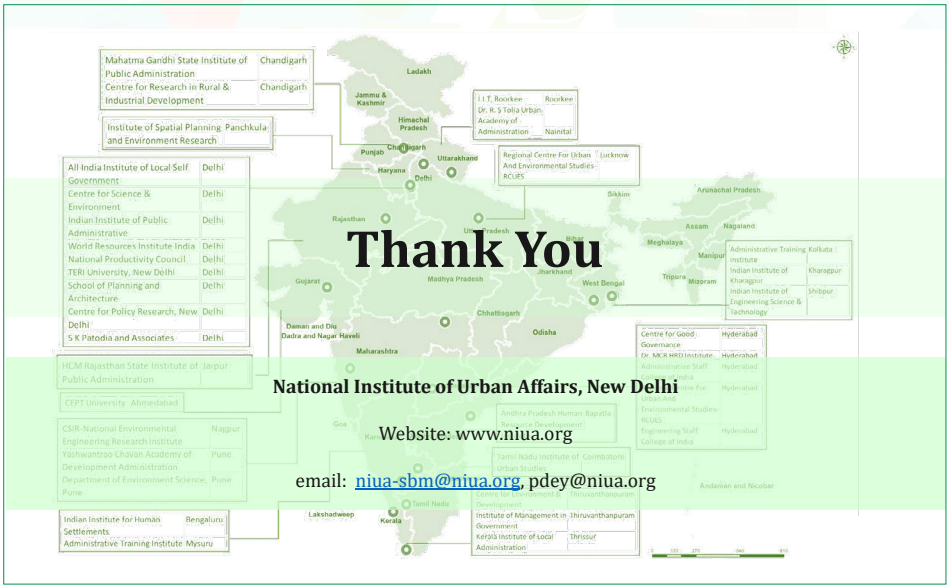
* Total number of response from cities – 67

FAQ's from Cities

1. What are the activities and/or components of this challenge?
2. What are the steps that need to be taken by ULB to participate in this challenge?
3. Who will support them in coming up with an action plan?
4. What kind of support can ULBs avail from MoHUA, NIUA, Organisations, and other agencies (Financial, Technical, Capacity Building, other)?

Next Steps...

Activity	Tentative dates
Orientation meeting <i>(completed)</i>	4-Dec-2020
Collab meet for cities and organizations	28-Dec-2020
Submission of activity plan to NIUA from organizations in consultation with cities	05 Jan-2021
	15 - Jan-2021
	10 -Feb -2021
Coordination meetings (Planning, updates and experience sharing)	10 -Mar-2021
	10 – Apr- 2021





SAFAIMITRA SURAKSHA CHALLENGE

19 Nov 2020 to 15 Aug 2021



SE LIKELY AGAINST MIRA ROAD CONTRACTOR

Killer cesspool
Tamil Nadu tops the list in cases of deaths due to manual scavenging reported since 199

STATE	DEATHS
Tamil Nadu	154
Gujarat	138
Karnataka	72
U.P.	71
Haryana	51
Rajasthan	33
Madhya Pradesh	30
Delhi	18
West Bengal	18

Man drowns in Jahangirpuri sewer

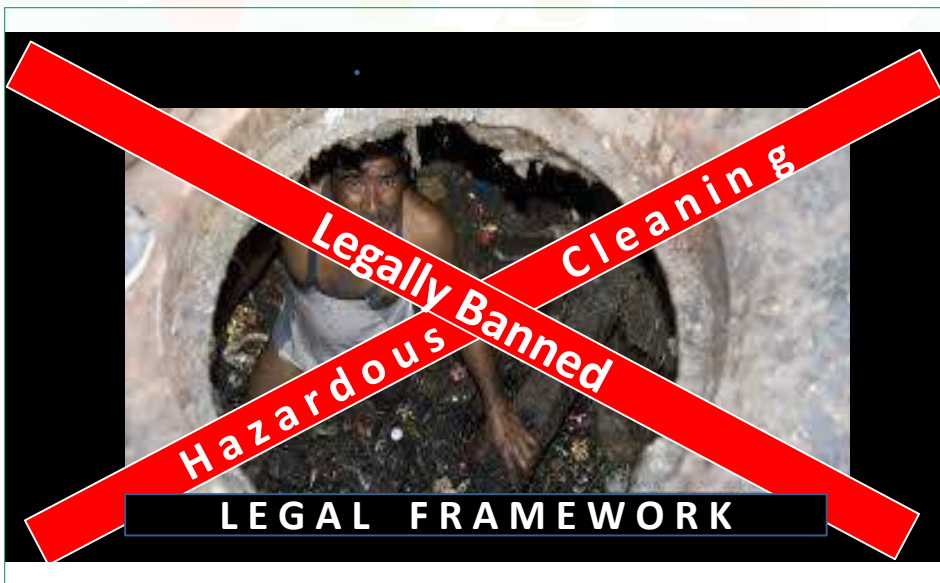
Capital's killer sewers claim another life

National Competition

City Challenge on Man-hole to Machine-hole Transformation

Year	Deaths
2016	48
2018	68
2019	110

*SOURCE: SOCIAL JUSTICE MINISTRY IN THE LOK SABHA ON FEBRUARY 11, 2020



Hazardous Cleaning of Sewers and Septic Tanks: Penal Consequences

PEMSRA Act*, 2013 Deals with two distinct aspects – (a) manual scavenging, and (b) hazardous cleaning

*Prohibition of Employment as Manual Scavengers and their Rehabilitation Act

Section 2(1)(d) of the Act

The Act defines “**hazardous cleaning**” as manual cleaning of a sewer or a septic tank **without the protective gear, cleaning equipment, and observance of safety precautions** prescribed under the Rules

Under Section 7 of the Act

It is an offence to directly or indirectly employ or engage any person for hazardous cleaning. **Thus, violation of the aforementioned safety precautions is an offence under the Act, even in cases when hazardous cleaning does not result in death or serious injuries.** This prohibition applies to individual persons as well as local authorities and agencies.

Under Section 9 of the Act

Punishment for 1st Time:

- Fine Upto 2 years of Jail;
- Or Fine Upto Rs. 2 lakh
- Or Both

Punishment for subsequent offences:

- Fine upto Five Years of Jail
- Or Fine upto Rs.5 lakh
- Or Both



Provision under section 9

Procedure : Section 9 is made cognisable and non-bailable under section 22

1. Any person coming across an **instance of hazardous cleaning** of a sewer or septic tank **can give this information to the police**, who are then required to file an FIR
2. The **police** can subsequently **arrest the accused without warrant** and the accused will be required to approach a Court for bail.
3. Under **section 21** of the Act, the offence may be tried summarily before a **Judicial Magistrate** of the first class. This results in simpler process for trial and conviction, **without the requirement of framing a formal charge**.

Nature of Evidence : Proving the Offence under section 9

1. Act **only requires evidence of hazardous cleaning** being carried out by a worker in direct or indirect engagement or employment with the person being prosecuted
2. **Example:** If an officer of a local authority is found to be engaging workers for manual cleaning of a sewer without the written permission of the CEO, the **lack of such permission could provide evidence** of the offence being committed
3. Similarly a **photograph or video** of a worker cleaning a septic tank without prescribed safety equipment, can constitute evidence of an **offence by the person engaging or employing such worker**



Key Points
to
Remember

Important Timelines

- Launch of Challenge : 19th November 2020
- Preparatory period : 19th Nov to 31st March 2021
- Monthly Progress Evaluation : February, March and April 2021
- IEC Activities update on portal : January 2021 onwards
- Application by Cities : 2nd - 30th April 2021
- Documents to be uploaded : 20th April 2021
- Evaluation : 1st May 2021 – 30th June 2021
- Results : 15th August 2021

Safaimitra Suraksha Challenge-2021 (SSC-2021)

- **Monthly Progress** to be updated **mandatorily by 5th day** on **SBM portal** –
 - **February 2021** progress to be updated **by 5th March 2021**
 - **March 2021** progress to be updated **by 5th April 2021**
 - **April 2021** progress to be updated **by 25th April 2021**
- **SSC-2021** will be **evaluated** by an **independent third party agency**
- **Assessment Agency** will create a **portal for SSC-2021**.
- **ULBs** are expected to upload their **supporting documents** and **pictures of IEC/Public Awareness** campaign on this portal. **Supporting documents** to be updated by **20th April 2021**
- **Pictures of IEC/Public Awareness** campaign are also expected to be updated on **Swachh Manch** and **ULBs Face Book Page**
- The **assessment agency** may ask for any other **document which are required for the evaluation**. **ULB** will be given **48-Hours window** to upload the same – **state will also be alerted simultaneously**.

Safaimitra Suraksha Challenge-2021 (SSC-2021).....contd.

- If **satisfactory documents not given** upon requests, **zero marks will be given** – agency will take a call on all such cases **in consultation with the Ministry**.
- **Progress claimed** by the ULB against each indicator will be **validated through call/field visits**.
- Log Books/supporting documents, supporting the progress, should be maintained at the plant/24X7 call centre only – to be provided/uploaded, if asked.
- Ministry will share the IEC creatives for ULBs to disseminate. ULBs may also design similar creatives to promote the campaign
- **Safaimitra** : Any worker engaged in cleaning of Septic tank/sewer lines

Safaimitra Suraksha Challenge-2021: Evaluation Criteria

1. Citizens Empowerment – Total Marks 200

1. 24X7 Helpline
24X7 Helpline Number, Portal and WhatsApp number for queries/ complaints **50**



2. Public Awareness Campaigns
Citizens/Service providers familiar with Do's and Don'ts of the business **150**



Evaluation Period	Validation Period	Validation Mode	Weightage
February 2021	March 2021	On-Call	20%
March 2021	April 2021	On-Call	30%
April 2021	May 2021	On-field/Face 2 Face	50%

Note: Other indicators will be validated during field visits in the month of May-June



Evaluation Process

City Challenge

Is City Qualifying the Conditions

- 1 RSA and SRU
- 2 ODF+
- 3 Ban on SUP

NO

OUT

YES

Performance Parameters : 1,000 Marks

Core Parameters 700 Marks (70%)	Eco-System Parameters 300 Marks (30%)
<ol style="list-style-type: none"> 1. Citizen's Empowerment <ul style="list-style-type: none"> • 24X7 Helpline • Public Awareness Campaigns 2. Mechanised Cleaning <ul style="list-style-type: none"> • Equipment & Infrastructure • Workforce 3. Mechanised Cleaning: Soft Measures <ul style="list-style-type: none"> • Capacity Building • Empowerment of Safaimitra 	<ol style="list-style-type: none"> 1. Periodic preventive maintenance 2. Adoption of Innovative Approach 3. Standardization of Septic Tank 4. Treatment Capacity 5. Sustainable O&M

City with Maximum Marks will be the Winner





Summary

Key Performance Areas : Total 1000 Marks

Qualification Conditions for Participating Cities

1. Setting-up RSA and SRU
2. Certified ODF+
3. Ban on Single-Use Plastic

Core Parameters : 700 Marks

1. Citizen's Empowerment

- 24X7 Helpline
- Public Awareness Campaigns

Marks
200

2. Mechanised Cleaning: Men & Machine

- Equipment & Infrastructure
- Workforce

Marks
400

3. Mechanised Cleaning: Soft Measures

- Capacity Building
- Empowerment of Safaimitra

Marks
100

Eco-System Parameters: 300 Marks

1. Periodic preventive maintenance

Marks
100

2. Sustainable O&M

Marks
50

3. Treatment Capacity

Marks
50

4. Adoption of Innovative Approach

Marks
50

5. Standardization of Septic Tank

Marks
50



70%
Core Parameters
(Drivers)

700 Marks

1. Citizens Empowerment – Total Marks 200

1. 24X7 Helpline

24X7 Helpline Number, Portal and WhatsApp number for queries/ complaints

50



2. Public Awareness Campaigns

Citizens/Service providers familiar with Do's and Don'ts of the business

150



2. Mechanised Cleaning: Men & Machine – Marks 400

1. Equipment & Infrastructure (as per CPHEEO norms)

Basic
Maintenance
Machines

200

Special
Equipment

50

PPE & Safety
Gears

50

Note: If mandatory PPEs mentioned (in red) in the list not in place, 20% marks will be deducted from this section carrying total 400 marks



Mechanised Cleaning: Men & Machine (contd.)

2. Workforce as per CPHEEO norms



Requisite
Water borne
Safaimitras
(Sanitation
Commandos)
in place

100
Marks



3. Mechanised Cleaning: Soft Measures – Marks 100

1. Capacity Building

Training / Skill Development of Safaimitras/workers engaged in cleaning of Septic Tank/Sewer lines

60 Marks



Standard Operating Procedure for Cleaning of Sewers and Septic Tanks

Central Public Health and Environmental Engineering Organisation (CPHEEO)

Mechanised Cleaning: Soft Measures ..(Contd.)

2 (a). Empowerment of Safaimitra

Rehabilitation of informal Safaimitras ..linking with social welfare schemes, Ration Cards, Education for Children etc.

20 Marks



Mechanised Cleaning: Soft Measures ...(contd.)

2 (b). Empowerment of Safaimitra

Rehabilitation of
informal Safaimitras
..linkage with
**Entrepreneurship/
Lilvehood
Opportunities**

20 Marks



30%
Eco-System Parameters
(Enablers)

300 Marks

Periodic Preventive Maintenance – Total Marks 100

Scheduled de-sludging of Septic Tanks and Sewer manholes

50 Marks



All Critical Hot Spots mapped

25 Marks



**% of Wards connected to closed system (septic tank/sewers)
% of Septic Tanks Geo-tagged**

25 Marks



Sustainable O&M – Total Marks 50

Whether **Revenue** collected is **matching** the total **O&M expenses**



Treatment Capacity of FSTP/STP & Actual Treatment – Marks 50

Whether **treatment capacity** is **matching** with the total faecal sludge/sewage **generated/collected**

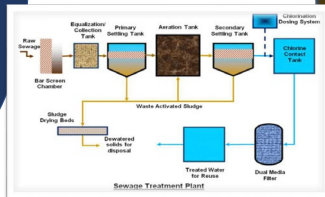


What % of faecal sludge/sewage is **actually treated**



Innovations – Marks 50

Like **low-cost solutions**, **faster solution**, **alert system**, **efficiency improvement** etc.



Standardization of Septic Tanks – Marks 50

Septic tanks to be constructed as per the **prescribed design and specifications**



Standardized septic tank design to be incorporated in **building by-laws**



% of Septic tanks in compliance with **IS 2470 Code**



Thank You

Safaimitra Suraksha Challenge- November, 2020- December, 2021



Aim- In keeping with the spirit and letter of the law-*Prohibition of Employment as Manual Scavengers and their Rehabilitation Act 2013* - to enforce/comply with the ban on hazardous cleaning of sewer/ septic tanks by ensuring that the city government and urban local bodies and citizen adopt the practice of mechanized cleaning of sewer and septic tanks

Initiative of Bhubaneswar Municipal Corporation (BMC):

- Identification of all informal sanitary workers involved in cleaning sewer lines and septic tanks/single pits (slums) with the support of Centre for Advocacy and Research (CFAR)
- Integration of these informal groups into formal Imparting Training on Standard Operating Procedures (SOP) on cleaning of sewers and septic tanks
- Ensuring mechanical cleaning of sewers and septic tanks/pits
- Equipped with cleaning tools, protective gears and safety devices

Training Booklet on *Standard Operating Procedure for Cleaning Sewers and Septic Tanks* developed by CPHEEO will be used to finalize the training module for sanitary workers and thereafter train them starting from master trainers to all including all their employers, supervisors and community facilitators



- Ensuring protective gears and safety devices are provided.
- Ensuring all procedures laid for safety managed cleaning of sewer lines and septic tanks are regulated. This will be achieved by educating all concerned about dos and don'ts and ranking the performance Ward wise. Every month one or more Wards declared as Ward of the Month



- BMC will also dovetail the safaimitra suraksha challenge with on-going process of implementing mechanized cleaning of septic tanks and pits in 437 slums of Bhubaneswar



- Establishment of Single Window mechanism managed by women, men and transgender across 41 Wards with support of CFAR
North Zone-20 Wards
South East -9 Wards
South West-12 Wards



- Single Window managed by Single Window Forum (SWF) members at the Ward Level and Volunteers and Community Management Committee (CMC) members at the slum level generate and aggregate demand for desludging of pits/ tanks.
- BMC in coordination with SWF, volunteers and CMC streamlined the service by training the desludge operators, volunteers, SWF and CMC members.

- On World Toilet Day, 19 November, 2020 the small cesspool vehicles was flagged off and cost fixed at Rs. 492.



- IEC and MuSafaiwala/Mass Rally/Awareness campaigns are conducted for public awareness and to strengthen community and citizen engagement across the 67 Wards of the city



- For effective awareness and communication among citizens in the city communication materials are developed (dos and don'ts as stipulated in the training manual on Cleaning of Sewer lines and Septic tanks) with support of CFAR.



- Strengthen legal literacy and respect for the law- *PEMSRA, 2013*
- Create from Master Trainers lead communicator to sensitize all stakeholders using all platforms especially mass and social media Become role models and inspiration for other workers
- Take the campaign to resident welfare associations, market associations, schools and colleges and raise awareness
- Build a movement of *Friends of Sanitary Workers*

Fourth
COORDINATION MEET-I FOR CITIES AND PARTNERS
15 January, 2021



Punjab Water Supply and Sewerage Board

**INITIATIVE TAKEN BY PWSSB TO STOP MANUAL
SCAVENGING**
An innovative completely In-house Project



PUNJAB WATER SUPPLY AND
SEWERAGE BOARD



Prohibition of Employment as Manual Scavengers and their Rehabilitation Bill, 2013



Need for Low Cost Mechanization

- High Capital cost of market available solutions
- High Operation Cost of existing solutions
- Financial burden on daily usage on ULB (just like a white elephant)
- Due to high operation cost & high repair cost being used as accidental maintenance only
- Huge size constraints & not designed as per local sight conditions

3

Benefits of Preventive maintenance

- More than 80% of sewerage network in a town comprises branch sewer (upto 12" dia)
- If branch sewer and machine holes on it cleaned once a year main sewer will never require cleaning.
- Preventive maintenance reduces accidental maintenance and rehabilitation cost
- Overall preventive cost = 1/10th of rehabilitation cost in a year
- Preventive maintenance improves functionality of sewerage system

4

SAFAIMITRA SURAKSHA CHALLENGE

Ministry of Housing and Urban Affairs
Government of India

LOW COST MECHANIZATION SOLUTIONS FOR SEWER CLEANING
Equipment Designed & Developed by Punjab Water Supply & Sewerage Board

MODERN MINI SEWER JETTING CUM SUCTION

MODERN MINI SEWER JETTING MACHINE

MECHANICAL WINCH

MODERN MACHINE HOLE DESILTER

MODERN E-AUTO MACHINE HOLE DESILTING MACHINE



PUNJAB WATER SUPPLY AND SEWERAGE BOARD

Uniform / Protective gears given to Sewermen



Uniform implemented in Deptt (now uniform after finalization from center Govt will be implemented)

- Given to each sewerment by Deptt for wearing while working in field.
- Safety helmet
- Protective eye wear
- Safety mask
- Night Reflector Stripe
- Violet single piece Dangri/Uniform
- Hand Gloves
- Gum Boots
- Approx cost Rs 650/- + taxes.



PUNJAB WATER SUPPLY AND SEWERAGE BOARD

Manual manhole mechanical desilting winch



Available on GEM Portal



Approx Cost 2000/- Rs

7



PUNJAB WATER SUPPLY AND SEWERAGE BOARD

Moto Mouse Jetter

https://www.youtube.com/watch?v=z0cT0dQsX4ko&t=51s

Trolley Mounted Sewer Jetting cum Suction Machine



Key Features

- Compact and can be pulled even by a motorcycle and manual means
- Easy operation no skilled labour required
- Can operate in narrow lanes where normal machine can't go
- Negligible fuel consumption
- Running cost even more less than even bamboo Roding
- Less capital cost with minimum repair cost

Available on GEM Portal

Approx Cost 35000/- Rs



PUNJAB WATER SUPPLY AND SEWERAGE BOARD

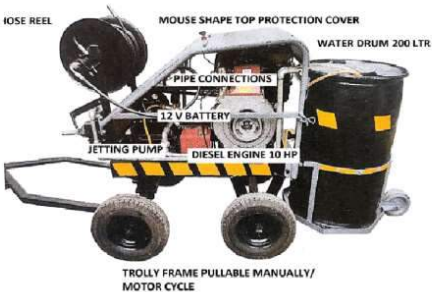
MOTO MOUSE JETTER



ਮੁੱਖ ਕਾਰਜਕਾਰੀ ਅਧਿਕਾਰੀ ਦੁਆਰਾ ਡਿਜ਼ਾਈਨ ਕੀਤੀ ਇਹ ਮਸ਼ੀਨ ਮਨੁੱਖੀ ਸ਼ਕਤੀ ਦੇ ਬਿਨਾਂ ਚੱਲ ਸਕਦੀ ਹੈ ਅਤੇ ਇਸਦੀ ਵਰਤੋਂ ਨਿਰੀਖਣ ਲਈ ਨਿਰਮਾਣ ਅਤੇ ਮਰਦਮਸ਼ੁਮਾਰੀ ਵਿੱਚ ਬਹੁਤ ਹੀ ਕਾਮਯਾਬ ਹੈ। ਇਸਦੀ ਵਰਤੋਂ ਨਿਰੀਖਣ ਲਈ ਨਿਰਮਾਣ ਅਤੇ ਮਰਦਮਸ਼ੁਮਾਰੀ ਵਿੱਚ ਬਹੁਤ ਹੀ ਕਾਮਯਾਬ ਹੈ।

ਮੁੱਖ ਕਾਰਜਕਾਰੀ ਅਧਿਕਾਰੀ ਦੁਆਰਾ ਡਿਜ਼ਾਈਨ ਕੀਤੀ ਇਹ ਮਸ਼ੀਨ ਮਨੁੱਖੀ ਸ਼ਕਤੀ ਦੇ ਬਿਨਾਂ ਚੱਲ ਸਕਦੀ ਹੈ ਅਤੇ ਇਸਦੀ ਵਰਤੋਂ ਨਿਰੀਖਣ ਲਈ ਨਿਰਮਾਣ ਅਤੇ ਮਰਦਮਸ਼ੁਮਾਰੀ ਵਿੱਚ ਬਹੁਤ ਹੀ ਕਾਮਯਾਬ ਹੈ।

ਮਸ਼ੀਨ
24.06.2020
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http://pwsb.org.in/india/communities/2603062442871



ਮੁੱਖ ਕਾਰਜਕਾਰੀ ਅਧਿਕਾਰੀ ਦੁਆਰਾ ਡਿਜ਼ਾਈਨ ਕੀਤੀ ਮਸ਼ੀਨ ਦਾ ਵਰਤੋਂ

ਮਸ਼ੀਨ 23 ਘੰਟਿਆਂ ਦਾ ਕਾਰਜ ਕਰ ਸਕਦੀ ਹੈ। ਇਸਦੀ ਵਰਤੋਂ ਨਿਰੀਖਣ ਲਈ ਨਿਰਮਾਣ ਅਤੇ ਮਰਦਮਸ਼ੁਮਾਰੀ ਵਿੱਚ ਬਹੁਤ ਹੀ ਕਾਮਯਾਬ ਹੈ।



ਮਸ਼ੀਨ ਦਾ ਵਰਤੋਂ ਨਿਰੀਖਣ ਲਈ ਨਿਰਮਾਣ ਅਤੇ ਮਰਦਮਸ਼ੁਮਾਰੀ ਵਿੱਚ ਬਹੁਤ ਹੀ ਕਾਮਯਾਬ ਹੈ।



Moto Mouse Jetter



Conventional Jetting machine

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Comparison of conventional jetting machine with Moto Mouse Jetter

S No	Description	Conventional jetting machine	Moto Mouse Jetter
			
1	Cost of Machine	25 00-30 00 Lacs	3 50 Lac
2	Spate for repair	Complex spare parts due to vehicle repair	simple & easily available
3	Repair cost of machine	Costly	Economical
4	Efficiency in cleaning	Less effective due to cannot go in narrow lanes & small streets	Quick and more effective due to easy movement in narrow lanes and application in small sewers
5	Running O&M Cost	1000/- Rs per Hour	50 Rs per hour (even less than conventional bamboo roding)
6	Manpower required	Skilled	Non skilled or semi skilled



PUNJAB WATER SUPPLY AND
SEWERAGE BOARD

<https://www.youtube.com/watch?v=YJhdBNc-2Vg>

MOTO MOUSE GRABBER



Designed & Developed in house by :
Punjab Water Supply Sewerage Board
Plot No 1-B, Sec-27, Chandigarh



Moto Mouse Grabber

vs

**Conventional
traditional
machines**





PUNJAB WATER SUPPLY AND SEWERAGE BOARD

Comparison of existing desilting machine with Moto Mouse Grabber

S No	Description	Normal Desilting Machine	Robotic Desilting machine	Moto Mouse Grabber
				
1	Cost of Machine	10.00 Lacs	40.00 Lacs	2.75 Lac
2	Spare for repair	Complex spareparts due to vehicle repair	Imported and complex electronic parts	simple & easily available
3	Repair cost of machine	Costly	Very costly	Economical
4	Efficiency in cleaning	Less effective due to vehicle grabbing only	Moderate effective due to lateral movements	quick and more effective due to side arm
5	Running O&M Cost	300-400 Rs per Hour	1000 Rs approx per hour	50 Rs per hour
6	Manpower required	Semi Skilled	Skilled 1-4	Non skilled or semi skilled
7	Safety devices	No provision	Gas Sensor, Camera	Gas detection sensor, 360 degree camera, GPS



PUNJAB WATER SUPPLY AND SEWERAGE BOARD

ECO Desilter E-Auto Mounted Machinehole Desilting Machine

https://www.youtube.com/watch?v=krRZOL_OdBI

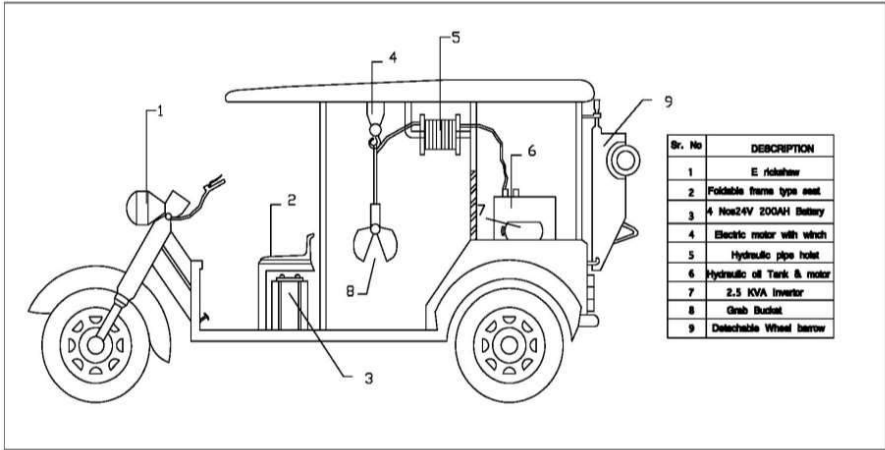


Available on GEM Portal

Key Features




- Compact and can be pulled by a E-Rikshaw does not require any special driver.
- Easy operation no skilled labour required
- Can operate in narrow lanes where normal machine can't go
- No fuel required, pollution free, noise free
- Negligible Running cost in comparison to manual cleaning
- Less capital cost with minimum repair cost






Approx Cost 475000/- Rs



PUNJAB WATER SUPPLY AND

Comparison of existing desilting machine with Eco Desilter

S No	Description	Normal Desilting Machine	Robotic Desilting machine	Eco Desilter
				
1	Cost of Machine	10.00 Lacs	40.00 Lacs	4.00 Lac approx
2	Spare for repair	Complex spareparts due to vehicle repair	imported and complex electronic parts	simple & easily available
3	Repair cost of machine	Costly	Very costly	Economical
4	Efficiency in cleaning	Less effective due to verticle grabbing only, no side cleaning facility (slow cleaning rate)	Moderate effective due to lateral movements inside a manhole (slow cleaning rate due to complex mechanism)	Quick and more effective due to lateral cleaning with hydraulic side arm (fast cleaning rate)
5	Running O&M Cost	300-400 Rs per Hour	1000 Rs approx per hour	15-20 Rs per hour
6	Manpower required	Semi Skilled	Skilled	Non skilled & even special driver not required
7	Safety devices	No provision	Gas Sensor, Camera	Gas detection sensor, 360 degree camera, GPS

Detail of Low Cost sewer cleaning equipments on GEM Portal by various fabricators in Punjab State											
Sr No	Type of Machine	Product id	Gem Catalog ID	Product name	Category	Model	Provider Name	MRP	Offer price	Photo of Product	Gem Link
1	Trolley Mounted mini jetting cum suction machine	5767740-8573386504	5116877-1108971326-cat	Modern Jetting cum Suction Machine	Mini Jetting Machine	Mini Jetting cum Suction Machine	Modern Foundry	420000	370000		https://mkp.gem.gov.in/mini-jetting-machine/modern-jetting-cum-suction-machine/p-5116877-1108971326-cat.html#variant_id=5116877-1108971326
2	Trolley Mounted mini jetting cum suction machine	1206038-92852861309	5116877-8969562987-cat	Bharat sewerage jetting cum suction machine	Mini Jetting Machine	trolley mounted jetting cum suction machine	Bharat Traders	450000	390000		https://mkp.gem.gov.in/mini-jetting-machine/bharat-sewerage-jetting-cum-suction-machine/p-5116877-8969562987-cat.html#variant_id=5116877-8969562987
3	Trolley mounted machine hole desilter	5767740-81770084535	5116877-76003414389-cat	Modern Machinehole desilter	Trolley Mounted Manhole Cleaning Machine	Trolley mounted Machinehole desilter	Modern Foundry	350000	310000		https://mkp.gem.gov.in/trolley-mounted-manhole-cleaning-machine/modern-machinehole-desilter/p-5116877-76003414389-cat.html#variant_id=5116877-76003414389
4	E Auto Mounted Desilting machine	5767740-87232603109	5116877-30526787914-cat	Modern E auto machinehole desilting machine	Desilting Machine	E auto mounted desilting machine	Modern Foundry	550000	482000		https://mkp.gem.gov.in/desilting-machine/modern-e-auto-machinehole-desilting-machine/p-5116877-30526787914-cat.html#variant_id=5116877-30526787914
5	Trolley Mounted mini jetting machine	5767740-18840968030	5116877-97609888371-cat	Modern Jetting cum Suction Machine	Mini Jetting Machine	V1.0	Modern Foundry	380000	330000		https://mkp.gem.gov.in/mini-jetting-machine/modern-mini-jetting-machine/p-5116877-97609888371-cat.html#variant_id=5116877-97609888371
6	Trolley Mounted mini jetting machine	1206038-7402550742	5116877-53806320172-cat	Bharat sewer jetting machine	Mini Jetting Machine	Trolley mounted sewer jetting machine	Bharat Traders	395000	320000		https://mkp.gem.gov.in/mini-jetting-machine/bharat-sewer-jetting-machine/p-5116877-53806320172-cat.html#variant_id=5116877-53806320172
7	Trolley Mounted mini jetting machine	3478230-96738648532	5116877-90139674344-cat	Mini sewer cleaning jetting machine	Mini Jetting Machine	Trolley type sewer cleaning high pressure jetting Machine	Traders Modern	300000	320000		https://mkp.gem.gov.in/mini-jetting-machine/mini-sewer-cleaning-jetting-machine/p-5116877-90139674344-cat.html#variant_id=5116877-90139674344

Proposal for calculation of machine for sewer cleaning with the help of NSKFC Loan system for individual person						
Sr No	Description	Cost (In Rs.)			Cost(In Rs.)	
1	Cost of jetting cum Suction Machine	350000			Cost of E-Rikshaw mounted Manhole desilter	450000
2	Subsidy amount	175000				200000
Loan amount considering 4% interest amount						
3	Period of return of loan	5 years			Period of return of loan	5 years
4	Monthly installment	3500			Monthly installment	5000
5	Considering monthly repair and maintenance cost of machine lumpsum	2500			Considering Annual repair and maintenance cost of machine lumpsum	5000
6	Consumable diesel / electricity per month	11500			Considering consumable hydraulic oil / electricity per month	5000
7	Monthly salary of Safaimitra	20000			Monthly salary of Safaimitra	20000
8	PPE Kit and safety equipments	1000			PPE Kit and safety equipments	1000
9	Provision of accidental insurance, equipment insurance, medical insurance, mobile & first Aid & other consumables	1200			Provision of accidental insurance, equipment insurance, medical insurance, mobile & first Aid & other consumables	1200
	Total Monthly Cost (Rs.)	39700			Total Monthly Cost (Rs.)	37200

Total Monthly cost Rs 76900/- (Say 77000/-) for using jetting cum Suction Machine& E-Riskhaw mounted manhole desilter collectively

Calculations for category A :- Manhole Depth (≤ 7 ft)

Nos of manholes cleaned in a day			6	manholes	
Cleaning of Branch reach			6	Nos	
Nos of working days in a month			22	days	
Manholes cleaned in month			132	Nos	
Total Branch sewer cleaned in month			3.30	Km	
Total Expenditure one manhole and one reach of sewer cleaned			600.00	GST extra on production of receipt	
			20		

Calculations for category B:- Manhole Depth (7-10 ft)

Nos of manholes cleaned in a day			5	manholes	
Cleaning of Branch reach			5	Nos	
Nos of working days in a month			22	days	
Manholes cleaned in month			110	Nos	
Total Branch sewer cleaned in month			2.75	Km	
Total Expenditure one manhole and one reach of sewer cleaned			700.00	GST extra on production of receipt	
			21		

Calculations for category C:- Manhole Depth (≥10 ft)

Nos of manholes cleaned in a day			4	manholes	
Cleaning of Branch reach			4	Nos	
Nos of working days in a month			22	days	
Manholes cleaned in month			88	Nos	
Total Branch sewer cleaned in month			2.20	Km	
Total Expenditure one manhole and one reach of sewer cleaned			900.00	GST extra on production of receipt	

22

Note - 5% annual increase on basic rate shall be considered till 5 years period.

Thanks

qc.pwssb@gmail.com, eeqc.pwssb@punjab.gov.in

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Government e-marketplace

Procurement Cycle



GeM
Government
e Marketplace

Efficient • Transparent • Inclusive



Flow of Presentation

- Learning Objective 1: How to Login as organisation/ Office and users on GeM
 - Two Stages
 - Step-1: Login as Organisation/Office
 - Step-2: Login as Secondary Users
- Learning Objective 2: How to procure Goods & Services on GeM



Important Aspects of while procuring on GeM portal

- Parties in GeM
 - ✓ Buyer
 - Who can buy
 - How to register to buy
 - How to buy
 - ✓ Seller
 - Who can sell
 - How to register to sell
 - ✓ DGS&D
 - Role and responsibilities
- Each has its predefined role and responsibilities



Steps for Login as Organisation/Office/HOD

- **Step1:** Login to <https://gem.gov.in>
- **Step2:** Click on Login/Register Webpage
- **Step3:** Fill the required login credentials and Click Login

LOGIN

LOGIN CREDENTIALS

USER ID *
Username

PASSWORD *
Password

CAPTCHA *
Type the answer

5+5

Forgot Password?

LOGIN



Click
LOGIN



Flowchart for Login as Organization/HOD



GeM Website

Go to
www.gem.gov.in

Register/
login
Webpage

Click on "Login/Register"
tab on the top right
corner of GeM Website

Login
Section

Fill the required credential
and click on LOGIN

5



Steps to Procurement



- Login as a Buyer
- Go to the Market option
- Select the required product category
- Narrow down your selection by providing details of your requirement on three criteria
- Select the desired product and proceed with purchase / adding to cart



Administrative Filter



1. Put the administrative filter
2. Quantity required
3. Delivery Location
4. Year of experience with government
5. Supplier Rating

ADMINISTRATIVE ▼

QUANTITY REQUIRED* ▼

>= >

DELIVERY LOCATIONS* ▼

▼

YEAR(S) OF EXPERIENCE WITH GOVT. ▼

>= >

SUPPLIER STAR RATING ▼

1 STAR

2 STAR

3 STAR

4 STAR



Financial Filter



1. Put the financial filter
2. Product amount range
3. Annual turnover of the supplier
4. PMA-Value addition
5. Profit & Loss of supplier

FINANCIAL ▼

PRICE ▼

>

₹ 24900 ₹ 64033

ANNUAL TURNOVER (AVG.) IN INR ▼

>= >

PMA-VALUE ADDITION IN INDIA(INR %) ▼

>= >

PROFIT LOSS ▼

PROFITABLE (AVG.) FOR LAST 3 YR



Product Description



Put the product technical specification as per requirement of buyer.

- As brand
- As model
- Processor etc

PRODUCT SPECIFICATIONS	
BRAND	<input type="checkbox"/>
<input type="checkbox"/> KBS	
<input type="checkbox"/> MILLENNIUM	
<input type="checkbox"/> DATAMINI	
<input type="checkbox"/> DELL	
<input type="checkbox"/> ACER	
MODEL	<input type="checkbox"/>
<input type="checkbox"/> KBS P32SL (KBS)(PSL32)(DEMO)	
<input type="checkbox"/> PSL32	
<input type="checkbox"/> TORNADO MT D16	
<input type="checkbox"/> P32HE	
<input type="checkbox"/> FESTIVA MG-H.C-13	
PROCESSOR MAKE	<input type="checkbox"/>
<input type="checkbox"/> INTEL	
<input type="checkbox"/> AMD	



Important Note



- All filters applied by the buyer at the selecting product always remain on GeM and it may see by the HOD means the buyer have adequate justification as per requisite quality.



The Purchase Process – 141 A

- If the total purchase amount upto Rs. 50,000,
- If the total purchase amount above Rs. 50,000






Purchase Process

1. When the purchase amount is **Less than Rs 50, 000**:
 - There is no need of doing comparison.
 - Buyer can select any product as per their specifications.
2. When the purchase amount is **more than Rs 50, 000**:
 - It is mandatory to do comparison of the products first.
 - Buyer need to select the L1 product.
 - [\GeM__Market Comparison Sheet.pdf](#)



Comparison Sheet



Specifications	Product 1	Product 2	Product 3
			
Sellers	1 Seller(s)	1 Seller(s)	1 Seller(s)
Technical Specifications			
MSRP/Unit	₹ 88,000.00	₹ 88,000.00	₹ 20,000.00
Unit Price	₹ 0.000.00	₹ 21,600.00	₹ 10,000.00
Total Price	₹ 88,000.00 X 10 = ₹ 8,80,000.00	₹ 21,600.00 X 10 = ₹ 2,16,000.00	₹ 10,000.00 X 10 = ₹ 1,00,000.00
Brand	HP	HP	HPM
Model	15c1185U	15	15E
Processor Make	Intel Core i3 Gen 8th Gen	Intel	Intel
Processor Configuration	2.00 GHz 3000U	1.80 GHz, 2 MB Cache, 6 Core	1.80 GHz, 2 MB Cache, 4 Core
Type of Operating System	Free OS	Windows	Windows
Warranty (Year)	1	3	3
Display Size (Inch)	15.6	15.6	15.6
Display Resolution	1920 X 1080 Pixel	1920 X 1080 Pixel	1920 X 1080 Pixel
Hard Disk Size (GB)	1000	500	500
RAM Size (GB)	8	8	8
Expandable Ram (GB)	8	8	8
Type of HDD		SATA	SATA
Processor Name		Pentium N3710	Pentium N3710
Wireless Connectivity		802.11 B/g/n (Single Antenna) - BT 4.0	802.11 B/g/n (Single Antenna) - BT 4.0
Battery		4 Cell	4 Cell
Battery Warranty (Year)		1	1
RAM Speed (MHz)		1600	1600
Type of RAM		DDR 3	DDR 3



Purchase Options



1. Direct Purchase
2. Bidding
3. Reverse Auction



Direct Purchase



For the purchases in the above condition:

- Go on product of screen and select product at top of right for comparison of products maximum upto four products.

- Select the product(s).

- If the amount is less than 50, 000 then buyer can go For any product.

- Add to cart.



BUYER

Direct Purchase



- And the same may "add to cart" by clicking on add to cart button.

This is the best product with applied filters



KBS KBS KBS P32SL (KBS)(psi32)(DEMO) ₹ 24,900 X 2 = 49,800/-



- Go to cart and select the product which need to be purchased and Direct Purchase option.

Select	Comp. Sheet	Product Detail	Model No.	Quantity	Added On	Unit Price	Sub Total
<input type="checkbox"/>		KBS P32SL (KBS)(psi32) (KBS)	KBS P32SL (KBS)(psi32) (DEMO)	2	13-08-2018 5 Days Left	₹ 24900	₹ 49,800.00
Grand Total							₹ 49,800.00



BUYER

Direct Purchase



- The total purchase price upto Rs. 50,000 buyer may go for direct purchase by clicking **direct purchase button**.
- Demand generation page will be displayed on screen.
- Fill the required details and upload Financial Approval.

DEMAND GENERATION (FOR ORDER/CONTRACT)

DEMAND INFORMATION

DEMAND NO. DEMAND DATE

LAST DELIVERY DATE BUYER*

SELECT CONSIGNEE* SELECT PAYMENT AUTHORITY*

FINANCIAL APPROVAL (ONLY PDF FILE)

No file chosen

COMPARISON SHEET

ACCOUNTING DETAILS

DESIGNATION OF OFFICIAL PROVIDING ADMIN APPROVAL DESIGNATION OF OFFICIAL PROVIDING FINANCIAL APPROVAL

IFD CONCURRENCE REQUIRED? *

YES NO

SELECT DDO* GRANT NO.

FUNCTION HEAD (FOR FINANCIAL YEAR 2016-2017)

Select Function Head *

OBJECT CODE CATEGORY

BUDGET TO BE BLOCKED

BUYER

- Select DDO along with Code
- Fill Grant No.
- Select Function Head
- Select Object Code
- Click On Block Budget



BUYER



By filling the required information press submit button and OK to generate the demand.

PRODUCTS DESCRIPTION

S. No	Product Name	Model No.	Brand	Offer Price	Discount	Ordered Quantity	Total Amount
1	KB5 P325L (KB5) (ps132)	KB5 P325L (KB5) (ps132)(DEM0)	KB5	24900.00	0.00 %	2	49800.00

ACCOUNTING DETAILS

DESIGNATION OF OFFICIAL PROVIDING ADMIN APPROVAL
 DIG: _____

DESIGNATION OF OFFICIAL PROVIDING FINANCIAL APPROVAL
 DIG: _____

IFD CONCURRENCE REQUIRED? *
 YES NO

BUDGET AVAILABILITY *
 YES NO

BUDGET TO BE BLOCKED
 49800.00



BUYER



- After clicking of Ok button, demand no. will be generated on screen and notification will be sent to the HOD, and Buyer.

New demand has been generated successfully. Your demand no. is **GEMD2335-24** and Demand Date is **03-10-2016**

A NOTIFICATION HAS BEEN SENT TO FOLLOWING:

Officials	Email	Mobile No.
Buyer	anurag1@nic.in	9650444119
HOD	nareyankg@nic.in	9650444119



BUYER

Direct Purchase



- Go to main page and click on "manage product" menu and click on demand/order list.
- Buyer will see different demand generated and click on process button.

Demand/Order Status Dashboard

Demand Details				Order Details								
S.No	Demand No.	Date	Product	Price	Order No.	Date	Order Status	Last Delivery Date	Buyer	Consignee	Payment Authority	Action
1	GEMD2152-5	19-08-2016	KBS P325L (KBS) (psi32) (KBS)						Diksha Madan	Prerna Sehgal	Saurabh Maheshwari	Process
2	GEMD2152-4	19-08-2016	All In one Desktop (acer)						Diksha Madan	Diksha Madan	Saurabh Maheshwari	Process



BUYER

Direct Purchase



- By clicking on process button, buyer will find the sanction order page.

- Click on

[Generate Sanction Order.](#)

DEMAND DETAILS

DEMAND INFORMATION

DEMAND NO.: DEMAND DATE:

LAST DELIVERY DATE: CONSIGNEE:

PURCHASER: PAY AUTHORITY:

FINANCIAL APPROVAL:

PRODUCTS DESCRIPTION

S.No	Product Name	Model No.	Brand	Quantity	Offered Price	Discount	Total
1	KBS P325L (KBS) (psi32)	KBS P325L (KBS) (psi32)	KBS	2	48800.00	0%	48800.00
Grand Total							₹ 48800.00

ACCOUNTING DETAILS

DESIGNATION OF OFFICIAL PROVIDING ADMIN APPROVAL:

DESIGNATION OF OFFICIAL PROVIDING FINANCIAL APPROVAL:

RFI CONCURRENCE PRECEDENT NO:

RFI DATES NO: RFI DAILY DATE:

BUDGET AVAILABILITY: BUDGET TO BE BLOCKED:



BUYER

Direct Purchase



1. Fill OTP on required box and e-sign it.
2. Buyer may see e-signed sanction order.
3. Thereafter, click on approve and **generate contract**.

DEMAND DETAILS

DEMAND INFORMATION

DEMAND NO: 08/102550-0 DEMAND DATE: 18-08-2018

LAST DELIVERY DATE: 08-08-2018 CONSIGNEE: FEDERAL POLICE (PUNJAB/INDIA)

PURCHASER: EKOCHA MASSARA (DUP/INDIA/IND) PAN AUTHORITY: SAUBHAGY-MAHE SHIVRAI (SAUBHAG/INDIA)

FINANCIAL APPROVAL: [VIEW APPROVAL FILE](#)

PRODUCTS DESCRIPTION

S. No.	Product Name	Product No.	Brand	Quantity	Offered Price	Amount	Total
1	8007 (BLACK) (M&M) (GARD)	1000-2000-10000	W&W	4	4000000	16,000,000	16000000
Grand Total							₹. 48000.00

ACCOUNTING DETAILS

DE SIGNATURE OF OFFICIAL PROVIDING FINANCIAL APPROVAL:

DE SIGNATURE OF OFFICIAL PROVIDING FINANCIAL APPROVAL:

IF E-COMPLIANCE REQUIRED? NO

IF E-SIGN NO.

BUDGET AVAILABILITY? YES

IF E-SIGN DATE:

BUDGET TO BE BLOCKED:

E-SIGNED SANCTION:

E-SIGNED SANCTION:

[VIEW SIGNED SANCTION](#)

[APPROVE AND GENERATE CONTRACT](#)



Ministry of Planning and Economic Affairs



- These documents duly signed digitally (**e-sign**) by the Buyer will be made available online to the concerned DDO, PAO and Seller/Supplier.
- The DDO and PAO shall have access to the Contract Agreement /Supply Order/Purchase Order online In order to ensure that the Bill is generated at the stage of payment in accordance with the contractual provisions.

An **electronic signature**, or e-signature, refers to data in electronic form, which is logically associated with other data in electronic form and which is used by the signatory to sign.



Direct Purchase

- After generating the contract, the seller/supplier will dispatch the along with the issue of online invoice on Gem portal.
- A invoice will be online available to the buyer and DDO/PAO regarding invoice cum bill.
- Then GeM portal will send a SMS/ email alert to the Buyer, on submission of Invoice.



CONSIGNEE



Direct Purchase

- After intimation of invoice, consignee needs to login.
- The Buyer/consignee receives the Goods/Services and issues an online Provisional Receipt Certificate (PRC), within 48 hours, [\PRC.pdf](#)
- It contains the details regarding:-
 - Quantity received
 - Date of receiving of consignment.



CONSIGNEE

Provisional Receipt Certificate (PRC)



PROVISIONAL RECEIPT CERTIFICATE	
Sanction No.: GEM/2016-17 Sanction Date: 27-09-2016 Contract No.: GEM/2016-17 Contract Date: 27-09-2016 Provisional Receipt Certificate No.: GEM/2016-17 Provisional Receipt Certificate Date: 27-09-2016	
ORGANIZATION DETAILS Type: Central Autonomous Ministry/Department: M & Finance Dept Expenditure Organization Name: NIFM	
BUYER DETAILS GEM Unique ID: GEM/2016-GO-21819 State: Jharkhand Contact No.: 786523665 Address: FARIDABAD, HARYANA, 131002	
SELLER DETAILS GEM Unique ID: GEM/2016/NIFM Test Product Sub-Unit: Company Name: NIFM Test Product Seller Contact No.: 989044219 Address: NIFM Faridabad, Sector 08	
CONSIGNEE DETAILS GEM Unique ID: GEM/2016-GO-21819 Name: Pooja Sahgal Organization: Ministry of Finance Contact No.: 9876543210 Address: NIFM, Sector 08, Faridabad, HARYANA, 131001	
ACCOUNTING DETAILS Disposition of official providing CAD: Disposition of official providing DBO Administrative approval: Administrative approval: JTD Occurrence Request? No JTD Diary No: JTD Diary Date: Budget availability: Yes Budget to be blocked: 36100.00	

INVOICE DETAILS					
Invoice Number:	GEM/2016-17/N1				
Invoice Date:	27-09-2016				
Order Received Date:	27-Sep-2016				
PRODUCT DETAILS FROM CONTRACT					
#	Item Description	Make & Model	Ordered Quantity	Unit	Price per Unit inclusive of all Duties and Taxes (in INR)
1	NIFM L.Laptop (NFM)	NIFM L.Laptop	2	Per	18,050.00
Total Order Value (in INR)					Rs. 36,100.00
CONSIGNMENT DETAILS					
This Receipt certificate (PRC) issued is on said to contain basis and not meant for claiming any payment for the supplies made against the contract. It is certified that the Seller has delivered a consignment of the Goods as per the following particulars:					
#	Item Description	Accounting Unit	Qty Ordered	Quantity of Goods provisionally received	Actual Date of receipt of consignment of Goods
1	NIFM L.Laptop (NFM)	Per	2	2	27-Sep-2016 12:00



CONSIGNEE



- After verification Including assessment of quality and quantity, the Consignee will Issue on-line digitally signed Consignee's Receipt & Acceptance Certificate (CRAC) for that stage within 10 days of date of issue of PRC.

[..CRAC.pdf](#)

- The CRAC would clearly indicate:
- the Order quantity
- rejected quantity (if any, with reasons for rejection including shortages/damaged /unaccepted quality)
- quantity accepted and cleared for payment



Consignment Receipt and Acceptance (CRAC)

CONSIGNEE RECEIPT & ACCEPTANCE CERTIFICATE	
ORGANIZATION DETAILS	BUYER DETAILS
Type: Central Autonomous	GEN User ID: GEM20166022810
Ministry/Department: 24.3 Finance, Div. Expenditure	Name: Shikha Malik
Organization Name: NIFM3	Contact No.: 766023662
	Address: FARIDABAD, HARYANA, 131002
SELLER DETAILS	CONSIGNEE DETAILS
GEN Order ID: GEM2016NIFM Yem Product Set40314	GEN Order ID: GEM20166022810
Company Name: NIFM Yem Product Seller	Name: Pooja Sengul
Contact No: 965044419	Designation: Revenue Assistant
Address: NIFM Faridabad, Sector 08	Contact No.: 965044419
	Address: NIFM, Sector-48, Faridabad, HARYANA, 121002
ACCOUNTING DETAILS	
Disposition of official pending: CAO	Disposition of official pending: DDD
Admin approval:	Financial approval:
ITD Compliance Flagged?: No	ITD Query No:
ITD Query Date:	
Budget available: Yes	Budget to be blocked: 36100.00

INVOICE DETAILS								
Invoice Number:	GEM2182.3TN1							
Invoice Date:	27-09-2016							
Order Received Date:	27-Sep-2016							
PRODUCT DETAILS FROM CONTRACT								
#	Item Description	Make & Model	Ordered Quantity	Unit	Price per Unit inclusive of all Duties and Taxes (in INR)			
1	NIFM L11 Laptop (NIFM)	NIFM L11 laptop	2	Pcs	18,050.00			
Total Order Value (in INR)					Rs. 36,100.00			
CONSIGNMENT DETAILS								
Item #	Description	Unit	Qty Ordered	Qty Received	Qty Accepted	Qty Rejected	Reason for Rejected Items	Price per Unit inclusive of all Duties and Taxes (in INR)
1	NIFM L11 Laptop (NIFM)	Pcs	2	2	2	0		18,050.00
Total Receipt of Order Value (in INR)								Rs. 36,100.00



- Notification regarding receiving of supplies will be sent to buyer, consignee, HOD and Supplier

Supplies against contract no. GEMD2335-24 has been received provisionally by consignee.

A NOTIFICATION HAS BEEN SENT TO FOLLOWING:

Officials	Email	Mobile No.
Buyer	anureg@nic.in	9650444119
Consignee	prerna@nic.in	9650444118
HOD	narayankg@nic.in	9650444119
Supplier	ks_narayan@hotmail.com	9650444119



DDO



- After issuing PRC and CRAC, the information regarding receipt and acceptance of goods has been sent to supplier on GeM Portal.
- Now, DDO/PAO will login to process payment.
- Login as PAO/DDO, go to **manage products** at the top.
- Under Manage Products select **Indent/Order list**



- After selecting Indent/order list PAO/DDO will navigate to the demand/order list.
- The latest demand generated will be displayed at the top.
- Under the column **Action**, select Process

DDO

Demand/Order Status Dashboard

DEMAND/ORDER LIST

Demand Details					Order Details							
S. No	Demand No.	Date	Product	Price	Order No.	Date	Order Status	Last Delivery Date	Buyer	Consignee	Payment Authority	Action
1	GEMD2335-16	21-09-2016	NIFM L2Laptop (NIFM)	54150.00	GEMD2335-16	21-09-2016	Recommended for Payment	05-10-2016	Anurag Singh	Prerna Kumar	Varun Kumar	Process Contract Summary View Summary
2	GEMD2335-14	21-09-2016	NIFM L2Laptop (NIFM)	36100.00	GEMD2335-14	21-09-2016	Recommended for Payment	05-10-2016	Anurag Singh	Prerna Kumar	Varun Kumar	Process Contract Summary View Summary
3	GEMD2335-13	21-09-2016	Laptop (NIFM) (NIFM)	27000.00	GEMD2335-13	21-09-2016	Order Placed	05-10-2016	Anurag Singh	Prerna Kumar	Varun Kumar	Contract Summary View Summary
4	GEMD2335-12	20-09-2016	NIFM L2Laptop (NIFM)	18050.00	GEMD2335-12	20-09-2016	Recommended for Payment	04-10-2016	Anurag Singh	Prerna Kumar	Varun Kumar	Process Contract Summary View Summary



After clicking on Process, payment authority will be navigated to "bill processing by HOD" page.



DDO

BILL PROCESSING BY DDO

Contract No.: GEMC2335-16
Contract Date: 21-09-2016

REFERENCE SIGNED DOCUMENTS

[FINANCIAL APPROVAL](#)
[SANCTION ORDER](#)
[CONTRACT](#)
[SELLER'S INVOICE](#)
[PROVISIONAL RECEIPT CERTIFICATE](#)

[CONSIGNEE RECEIPT & ACCEPTANCE CERTIFICATE](#)
[BUYER BILL PROCESS](#)

ORGANIZATION DETAILS

Type: Central Government
Ministry: Mid Finance - Dis Expenditure
Department: NPM Finance - Dis Expenditure
Organization Name: NPM TR02

SELLER DETAILS

SEW Unique ID: GEM/2016/SUPM/Net Product Seller/204
Company Name: NPM TMS Product Seller
Contact No.: 98554478
Address: NPM Financial Sector 4B

BUYER DETAILS

SEW Unique ID: GEM/2016/PO02335/1
Name: Acting Singh
Contact No.: 98554478
Address: NPM Finance Sector 4B, part 1st, -HARYANA

ACCOUNTING DETAILS

Designation of official DO providing financial approval: [Blank]
Designation of official DO providing financial approval: [Blank]
IFD Consumption Required? Yes
IFD Date: 21-09-2016
Contract Number: 034
Function Head: 205000000000
Object Head: 10
Category Head: 0
Budget availability: No
Budget to be booked: 5400.00

INVOICE DETAILS FROM ERAC

Invoice Number: GEM2016/1611
Invoice Date: 21-09-2016
Order Number: 16224242
Order Date: 21-09-2016
Invoice Date: 21-09-2016
Invoice Date: 21-09-2016

SELLER INVOICE DETAILS

SEW Invoice No: GEM2016/1611
Invoice Number: 02733483
Invoice Date: 21-09-2016

PRODUCT DETAILS

S	Item Description	Make & Model	Ordered Qty	Unit	Price	Product Total (including all taxes & fees)
1	NPM Laptop (net)	NPM Laptop	5	Pcs	11418.00	57090.00
TOTAL ORDER VALUE (IN INR)						57090.00

CONSIGNMENT DETAILS

S	Item Description	Make & Model	Ordered Qty	Qty Received	Qty Returned	Qty Rejected	Unit	Price per Unit (including all taxes & fees)
1	NPM Laptop (net)	NPM Laptop	5	5	0	0	Pcs	11418.00
TOTAL ORDER VALUE (IN INR)								
INR. 57,090.00								

BILL PROCESS BY BUYER

Has the bill value been paid with original Delivery Receipt?
Yes

INSTRUMENT NUMBER (IN INR):
Rs. 5400.00

Payment Number (IN INR):
Rs. 5400.00

[FINANCIAL APPROVAL](#)



Payment Process



PAO/DDO can have access to different documents namely:

DDO

1. Financial Approval
2. Sanction order
3. Contract
4. Seller Invoice

BILL PROCESSING BY DDO

Contract No.: GEMC2335-16
Contract Date: 21-09-2016

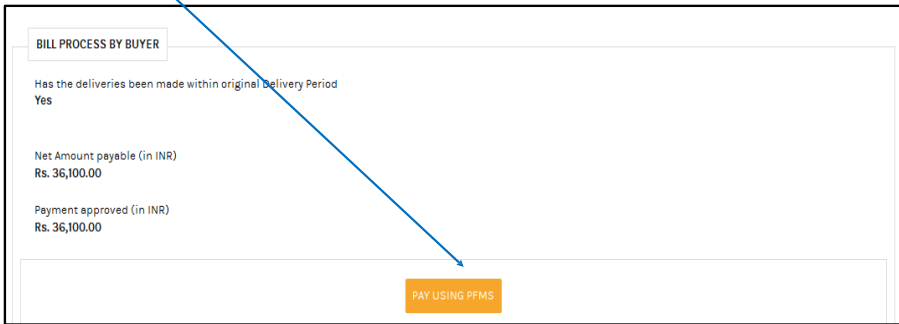
REFERENCE SIGNED DOCUMENTS

[FINANCIAL APPROVAL](#)
[SANCTION ORDER](#)
[CONTRACT](#)
[SELLER'S INVOICE](#)
[PROVISIONAL RECEIPT CERTIFICATE](#)

[CONSIGNEE RECEIPT & ACCEPTANCE CERTIFICATE](#)
[BUYER BILL PROCESS](#)

Payment Process

- Click on Pay Using PFMS/SBI Payment gateway at the below.



BILL PROCESS BY BUYER

Has the deliveries been made within original Delivery Period
Yes

Net Amount payable (in INR)
Rs. 36,100.00

Payment approved (in INR)
Rs. 36,100.00

PAY USING PFMS

If the total purchase amount above Rs
50,000



Bidding and Reverse Auction



- **Bidding:- Bidding** is an offer (often [competitive](#)) to set a price by an individual or business for a product or service *or* a demand that something be done. Bidding is used to determine the cost or value of something.
- **Reverse Auction:** A **reverse auction** is a type of [auction](#) in which the roles of buyer and seller are reversed. In a reverse auction, the sellers compete to obtain business from the buyer and prices will typically decrease as the sellers underbid each other.



Bidding



Bidding



- If the buyer wants to participate in Bidding, then buyer needs to select the L1 product and "add to cart" by clicking on add to cart button.
- After adding the product to the cart and selecting to purchase, the buyer will have three options: Bidding, Reverse Auction and Direct Purchase. Select **"BIDDING"**.

	Select	Comp. Sheet	Product Detail	Model No.	Quantity	Added On	Unit Price	Sub Total
			Window Air Conditioner 1.5 Tr-3 Star Rating (Gujrat)	GL15WR74	10	20-08-2016 5 Days Left	₹ 23760	₹ 237,600.00
Grand Total								₹ 237,600.00
← CONTINUE SHOPPING		🗑️ CLEAR CART		BIDDING		REVERSE AUCTION		DIRECT PURCHASE

- Fill the required details:-
- Delivery days
- Mention the Bid start and end date.
- Quantity
- Extra specifications(if needed)
- Click on **"CREATE BID"**

CREATE BID SECTION

PRODUCT CATEGORY: **COMPARISON SHEET**

#	Title	Unit	Qty
1	Processor/Printer	Unit	
2	Processor Configuration	1.00 GHz, 2.0 GB memory, 4 GB drive	
3	Open Office Operating System	Windows	
4	Memory	3	MB
5	Storage/SSD	16	GB
6	Storage/Harddisk	140	GB
7	Hard Drive Size	250	GB
8	RAM size	2	GB
9	Storage in Item	16	GB
10	Type of SSD	SATA	
11	Processor/Printer	Processor/Printer	
12	Processor/Printer	Processor/Printer	

BID VERIFICATION

ALL INDIA

BID START DATE/TIME: 18/03/2018 00:00

BID END DATE/TIME: 18/03/2018 00:00

QUANTITY: 1

UNIT: Free Delivery at Site (As Contingency Risk)

CONTRACT: 00000000000000000000

PRINTER: gopesh@nic.in

EXTRA SPECIFICATIONS

TITLE: CPU

BID REMARKS:

CREATE BID




If the total purchase amount above Rs 50,000



For the purchases in the above condition:

- Go on product of screen and select product at top right for comparison of products maximum upto four products.
- Press compare button which shows on screen and OK.
- Buyer will find a comparison sheet.
- At the end of the comparison sheet, **GeM portal will display the L1 to purchase amongst all the available products on GeM portal.**

This is the best product with applied filters



NIFM NIFM v12 ₹ 18,050 X 2 = 36,100/-

ADD TO CART



If the total purchase amount above Rs 50,000



- And the same may “add to cart” by clicking on add to cart button.
- Go to cart and select the product which need to be purchased.
- The purchase price above Rs. 50, 000 then, buyer has three options:

Select	Comp. Sheet	Product Detail	Model No.	Quantity	Added On	Unit Price	Sub Total
<input type="checkbox"/>	<input type="checkbox"/>	Window Air Conditioner 1.5 Tr 3 Star Rating (Bujral)	GL15WRT4	10	20-08-2016 5 Days Left	₹ 23760	₹ 237,600.00
Grand Total							₹ 237,600.00
<input type="button" value="CONTINUE SHOPPING"/>		<input type="button" value="CLEAR CART"/>		<input type="button" value="BIDDING"/>		<input type="button" value="REVERSE AUCTION"/> <input type="button" value="DIRECT PURCHASE"/>	



If the total purchase amount above Rs 50,000
Reverse Auction



- Select the products to purchase.
- GeM portal will suggest the L1 product.
- Add to cart
- After selecting the product in the cart, GeM will give three options: Reverse Auction, Bidding, Direct Purchase
- Click on Reverse Auction button.

The screenshot shows the 'REVERSE AUCTION' interface on the GeM portal. It displays a list of items for bidding, including 'Window Air Conditioner 1.5 Tr 3 Star Rating (Bujral)' with a quantity of 10. The interface includes fields for 'BUYER'S LOCATION', 'BUYER'S ID', 'BUYER'S NAME', 'BUYER'S ADDRESS', 'BUYER'S CONTACT', and 'BUYER'S EMAIL'. There are also buttons for 'BIDDING', 'REVERSE AUCTION', and 'DIRECT PURCHASE'.



Reverse Auction



- Fill the required details:-
- Delivery days
- Mention the RA start and end date.
- Quantity
- Step value decrement
- Extra specifications(if needed)
- Click on **"Finalize RA"**

- After clicking on "Create RA", buyer will be navigated to Reverse Auction Details page where details about RA and product will be displayed.
- Accept the terms and conditions and Click on **"FINALIZE RA"**

REVERSE AUCTION	
Details - RA	
RA Number	62412361275
RA Status	Active
RA Owner	Amung Singh
RA Owner Department	MHM TSD&V M&A Finance - O/o Expenditure
Consignee Name	Promo Kumar
Consignee Address	MHM, F&T000000
RA Creation Date / Time	04-10-2018 00:00
RA Start Date / Time	11-10-2018 00:00
RA End Date / Time	12-10-2018 00:00
Delivery Days (From date of Contract)	10
Reference Unit Price	₹ 180,000.00
Bid Remarks	

Product Details	
Product Quantity	10
Product Specifications	<ul style="list-style-type: none"> Warranty - 3(3)years OSDRA 2014 - 2015 Type of HDD - 3.5inch-6 Type of RAM - Non Touch Type of Operating System - X Capacity Memory - 1024GB Expansion Port - 1(8)PCI,2(HD)SATA,4(USB)2.0 RAM Speed - 1600 Processor Core/Speed - 3 Graphics - 1 RAM Size - 16GB Quality Warranty - 3(3)years Processor Make - intel Display Type - led Hard Drive Size - 4TB/10TB Weight - 5kg Battery - 10-1500mAh Video Port - 1(DVI)D Display Resolution - 1920x1080px(Single Screen)2.0 Connectivity - 3(Internet) Wireless Connectivity - 1(8) Version of Operating System (Pre-installed) - 1 Display Size - 15.5inch(15.5) Use of Energy Star Certification - 1(10) Processor Name - i HDD Speed - 7200rpm(7200)
<input type="checkbox"/> I have read and agree to comply with and/or be bound by the Terms & Conditions of Government e-Marketplace (GEM).	
<input type="button" value="Finalize RA"/>	



https://gem.gov.in/training/training_module
<https://gem.gov.in/training/facilitators>

<https://youtu.be/9xEDt792TkQ>
<https://youtu.be/Fv7YliJQvj8>

Thank You




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OUR BRANCHES

DELHI	MUMBAI	KOLKATA	CHENNAI	JAMSHEDPUR	BHUBANESHWAR	BANGALORE	GUWAHATI
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INTRODUCTION

We are pleased to introduce our organization as one of the leading Indian Engineering Equipment Manufacturer. We are manufacturing a wide range of equipment required for Modernization and Mechanization of Solid Waste Management activities, Sewer line/Storm Water Drain cleaning and Maintenance and Mechanized Sweeping of Roads by Municipalities and Public Health Departments.

We also manufacture a wide range of equipment's for Industrial Sectors covering Cement Plants, Steel Plants, Mines, Metallurgical plants like Aluminum, Copper and Ports and harbors. You can review our Product Profile on our website www.tpsmfg.com.

Our organization is working with all the Municipal Corporations, Water Supply and Sewerage Board and various other bodies covered under the States Urban Development Ministries all over India. Our organization has a strength of about 650 Personnel. We are also executing large projects for these clients all over India and abroad. We are an organization with an excellent track record and reputation of more than 30 years.

TPS Infrastructure Limited has many firsts to its name and is synonymous with credible achievements in the above. In order to promote proper marketing of the products manufactured by the company and provide an efficient after sales service to various customers, the company has Marketing / Service offices all over India.

The Company has its manufacturing plants at Bhiwadi (Rajasthan).

PRODUCT RANGE



MUNICIPAL APPLICATION

LIQUID WASTE MANAGEMENT:-

- SEWER SUCTION MACHINE (CESSPIT EMPTIER)
- SEWER JETTING MACHINES
- SEWER SUCTION CUM JETTING MACHINES
- DE-SILTING MACHINES (SUPER SUCKER TYPE) WITH DUMP TANK FOR DE-SILTING AND CLEANING OF MAIN SEWER LINES
- MINI SEWER SUCTION MACHINES WITH DUMP TANK
- MULTI-PURPOSE SEWER CLEANING MACHINES
- SEWER SUCTION CUM JETTING MACHINE WITH WATER RECYCLING FACILITY

SOLID WASTE MANAGEMENT:-

- TRUCK MOUNTED AUTOMATIC AND SEMI-AUTOMATIC REFUSE COMPACTOR VEHICLES
- PORTABLE REFUSE COMPACTOR WITH HOOK LOADERS
- SOLID WASTE TRANSFER STATIONS EQUIPMENT AND HOOK LOADERS
- AUTO TIPPER & BINS

ROAD SWEEPERS:-

- TRUCK MOUNTED ROAD SWEEPING MACHINES
- RIDE-ON ROAD SWEEPING MACHINES
- SELF-PROPELLED ROAD SWEEPING MACHINES

ADVANTAGES OF MECHANIZED CLEANING OF LIQUID WASTE



- QUICK SOLUTION TO SEWER PROBLEMS LIKE SEWER OVERFLOW, SEWER BLOCKAGES ETC. TO ENSURE SMOOTH FLOW OF SEWAGE
- ELIMINATES MANUAL SCAVENGING
- ELIMINATES THE RISK TO HUMAN LIFE BY ELIMINATING ENTRANCE OF HUMAN IN SEWER MANHOLE/SEPTIC TANKS
- DESILTING OF UNDERGROUND SEWER LINE TO INCREASE/RESTORE THE FLOW CAPACITY OF SEWER SYSTEM WITHOUT ANY HUMAN ENTRANCE.
- REQUIRED LESS MANPOWER
- EASE OF WORK
- SAVES TIME



TPS RANGE OF PRODUCTS FOR SEWERLINE CLEANING



- SEWER SUCTION MACHINE (CESSPIT EMPTIER)
- SEWER JETTING MACHINES
- SEWER SUCTION CUM JETTING MACHINES
- DE-SILTING MACHINES (SUPER SUCKER TYPE) WITH DUMP TANK FOR DE-SILTING AND CLEANING OF MAIN SEWER LINES
- MINI SEWER SUCTION MACHINES WITH DUMP TANK
- MULTI-PURPOSE SEWER CLEANING MACHINES
- SEWER SUCTION CUM JETTING MACHINE WITH WATER RECYCLING FACILITY

SEWER SUCTION MACHINE (CESSPIT EMPTIER)



The Machine is suitable for Suctioning silt/slurry from sewer manhole/cesspit septic tank etc. by Vacuum Suction System and discharging the collected sludge by blowback facility/hydraulic tipping of the tank. Based on customer requirement for Tank capacity the capacity varies from 700 ~ 8000 liters suitable to be mounted on Truck Chassis ranging from 2.5~ 16 Ton GVW Truck Chassis.



SEWER SUCTION MACHINE (CESSPIT EMPTIER)



TRUCK CHASSIS MOUNTED SEWER SUCTION MACHINE (CESSPIT EMPTIER)

Tank Capacity	700	2000 Liters	3000 Liters	5000 Liters	8000 Liters
Truck Chassis	2.5 T GVW	4.9 T GVW	7 T GVW	11-12 T GVW	16 T GVW
Vacuum Pump	310 Cum/Hr.	318 Cum/Hr.	432 Cum/Hr.	540 Cum/Hr.	660 Cum/Hr.
Suction Hose	3 inch Dia. (3 Nos. X 5 Mtrs.	3 inch Dia. (3 Nos. X 5 Mtrs.	3 inch Dia. (3 Nos. X 5 Mtrs.	4 inch Dia. (3 Nos. X 5 Mtrs.	4 inch Dia. (3 Nos. X 5 Mtrs.
Hydraulic Tipping	Not Applicable	Not Applicable	Not Applicable	Provided	Provided

SEWER JETTING MACHINE



The High Pressure Jetting Machine is suitable for Dislodging and removing obstruction and blockages from Sewer line by High Pressure Water Jetting System. Based on customer requirement for Tank capacity, the capacity varies from 1000 ~ 8000 liters suitable to be mounted on Truck Chassis ranging from 2.5 ~ 16 Ton GVW Truck Chassis.



SEWER JETTING MACHINE



TRUCK CHASSIS MOUNTED SEWER JETTING MACHINE

Tank Capacity	1000 Liters	2000 Liters	3000 Liters	5000 Liters	8000 Liters
Truck Chassis	2.5 T GVW	4.9 T GVW	7 T GVW	11-12 T GVW	16 T GVW
Jetting Pump	70 LPM 130 Bar	70 LPM 130 Bar	153 LPM 130 Bar	220 LPM 138 Bar	260 LPM 150 Bar
Jetting Hose	12 mm Dia. 30 meters	19 mm Dia. 60 meters	19 mm Dia. 60 meters	25 mm Dia. 60 meters	25 mm Dia. 120 meters

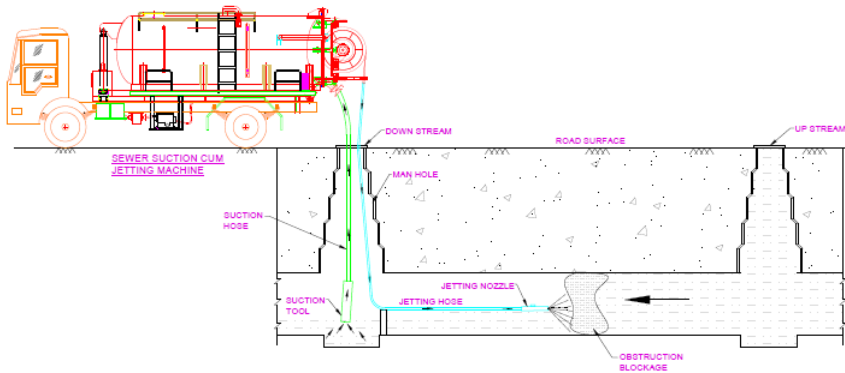
SEWER SUCTION CUM JETTING MACHINE



The combined High Pressure Jetting and Sewer Suction Machine is suitable for Dislodging and removing obstruction and blockages from Sewer line by High Pressure Water Jetting System and suctioning the sludge/slurry from sewer manhole, gully pit, septic tank etc. by Vacuum Suction System and discharge the collected sludge by hydraulic tipping of the container or by blowback arrangement. Based on customer requirement for Tank capacity the capacity varies from 4000 ~ 12000 liters suitable to be mounted on Truck Chassis ranging from 9 ~ 18.5 Ton GVW Truck Chassis.



SEWER SUCTION CUM JETTING MACHINE-WORKING



SEWER SUCTION CUM JETTING MACHINE



TRUCK MOUNTED SUCTION CUM JETTING MACHINE

Tank Capacity	4000 Liters (2000 liters for Sludge + 2000 liters for water)	6000 Liters (3000 liters for Sludge + 3000 liters for water)	8000 Liters (5000 liters for Sludge + 3000 liters for water)	10000 Liters (6000 liters for Sludge + 4000 liters for water)
Truck Chassis	9 T GVW	11 T GVW	16 T GVW	18.5 T GVW
Hydraulic Tipping	Not Available	Not Available	Provided	Provided
Vacuum Pump	318 Cum/Hr.	540 Cum/Hr.	660 Cum/Hr.	660 Cum/Hr.
Suction Hose	3 inch Dia. (3 Nos. X 5 Mtrs.	3 inch Dia. (3 Nos. X 5 Mtrs.	4 inch Dia. (3 Nos. X 5 Mtrs.	4 inch Dia. (3 Nos. X 5 Mtrs.
Jetting Pump	70 LPM 130 Bar	153 LPM 130 Bar/220 138 Bar	260 LPM 150 Bar	260 LPM 150 Bar
Jetting Hose	19 mm Dia. 60 meters	19 mm Dia. 60 meters/25 mm Dia. 60 Meters	25 mm Dia. 120 meters	25 mm Dia. 120 meters
Hose Reel Drive	Hydraulic Motor	Hydraulic Motor	Hydraulic Motor	Hydraulic Motor

SUPER SUCKER (DE-SILTING) MACHINE WITH DUMP TANK



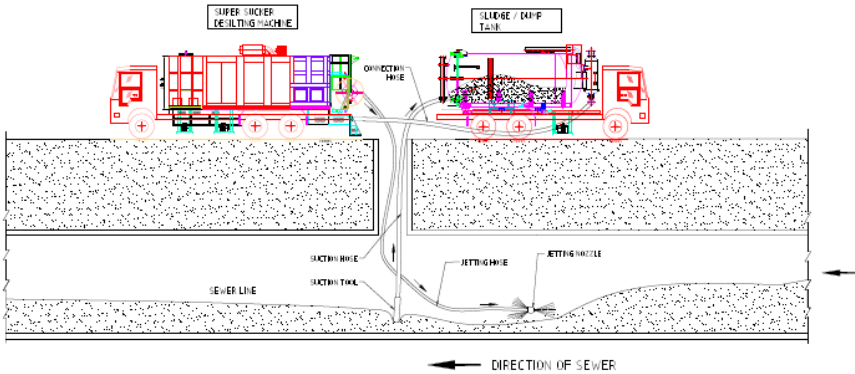
The Heavy Duty Truck Mounted Vacuum Loader with High Pressure Jetting System is suitable for dislodging the Silt/Sludge settled in the trunk sewer lines and for suctioning the free flowing sludge and slurry for De-silting the trunk Sewer Pipelines. This machine operates in conjunction with Truck Mounted Cyclonic Sludge/Silt Container/Dump Tank.



Capacity Variants

1. Super Sucker mounted on 16T GVW Truck Chassis with Dump Tank 11T Chassis.
2. Super mounted on 28 T GVW Truck Chassis with Dump Tank 16-18.5T Chassis.

SUPER SUCKER (DE-SILTING) MACHINE WITH DUMP TANK -WORKING



SUPER SUCKER (DE-SILTING) MACHINE WITH DUMP TANK



SUPER SUCKER (DE-SILTING) MACHINE WITH DUMP TANK

SUPER SUCKER UNIT

Truck Chassis	18.5 T GVW	28 T GVW
Auxiliary Engine	150 HP	220 HP
Vacuum Pump	2800 Cum/Hr. (FAD)	5000 Cum/Hr. (FAD)
Suction Hose	5 inch Dia. (2 Nos. X 7.5 Mtrs.)	6 inch Dia. (2 Nos. X 7.5 Mtrs.)
Water Tank	4000 liters	7000 liters
Jetting Pump	260 LPM 150 Bar	390 LPM 150 Bar
Jetting Hose	25 mm Dia. 120 meters	32 mm Dia. 120 meters

SLUDGE/DUMP TANK UNIT

Tank Capacity	6000 liters	12000 liters
Truck Chassis	11 T GVW	18.5 T GVW
Hydraulic Tipping	Provided	Provided
Lateral Cleaning System	Pump - 20 LPM 100 Bar with Washing Gun with hose.	Pump - 20 LPM 100 Bar with Washing Gun with hose.

MINI SEWER SUCTION MACHINE WITH DUMP TANK



The equipment consists of a split shaft PTO driven Vacuum Pump with accessories having a sludge tank capacity of 1000 Ltrs. mounted on Light Commercial Vehicle Chassis 2200-3000 Kgs. GVW for suctioning of sludge/slurry from cesspits. The Vacuum Pump driven from Vehicle engine through a split shaft PTO.



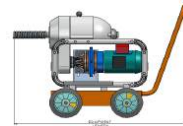
MULTI-PURPOSE SEWER CLEANING MACHINES



cleaning small sewer line upto 450 mm dia. with the help of high pressure jetting. The machine is provided with a hydraulically operated Grab Bucket for cleaning sewer manhole. The equipment is also provided with a Rodding machine capable of removing obstructions in the sewerline. The machine is mounted on Truck Chassis



Grab Bucket Desilting machine



Rodding machine

SUCTION CUM JETTING MACHINE WITH RECYCLING FACILITY FOR JETTING



TPS Recycler machine is designed for cleaning and maintenance of Sewer Pipelines. The equipment is a combination of suction machine and the Jetting Machine with Sewer Water filtration and Recycling facility



SEWER SUCTION CUM JETTING MACHINE WITH RECYCLING FACILITY FOR JETTING



TRUCK MOUNTED SEWER SUCTION CUM JETTING MACHINE WITH RECYCLING FACILITY FOR JETTING

Tank Capacity	8000 liters (5000 liters for Sludge + 2000 liters for Recycled water+1000 liters for fresh water)	10500 liters (6500 liters for Sludge + 3000 liters for Recycled water+1000 liters for fresh water)
Truck Chassis	18.5 T GVW	28 T GVW
Vacuum Pump	3000 Cum/Hr. (FAD)	5000 Cum/Hr. (FAD)
Suction Hose	5 inch Dia.	6 inch Dia.
Combined Suction and Jetting Boom/Derrick Arm	Derrick Arm	Combined Suction and Jetting Boom
Jetting Pump	240 LPM 150 Bar	390 LPM 150 Bar
Jetting Hose	25 mm Dia. 120 meters	32 mm Dia. 120 meters
Hydraulic Tipping	Available	Available
Water Recycling Facility	Provided	Provided

SALIENT FEATURES OF TPS RECYCLER MACHINE



COMBINED SUCTION-CUM-JETTING BOOM

- ❖Hydraulically swing able by 180° around the rear of the truck and forward telescopic movement by 1200mm
- ❖Allows for quick and easy setup at manholes even in awkward positions
- ❖The high pressure hose reel is also installed on the suction-hose-boom
- ❖The Suction and high-pressure hose can be lowered in tandem into the sewer shaft
- ❖Visual and audible warning in cab when boom not in travelling position.



TPS RANGE OF EQUIPMENTS FOR SOLID WASTE MANAGEMENT



TPS RANGE - SOLID WASTE MANAGEMENT- PORTABLE COMPACTOR STATION



TPS RANGE - SOLID WASTE MANAGEMENT – STATIC COMPACTOR WITH HYDRAULIC LOADING BUCKET



TPS RANGE - SOLID WASTE MANAGEMENT – STATIC COMPACTOR WITH TOP LOADING HOPPER



Waste Transfer Station is designed to receive garbage from Primary Collection Vehicles (Auto Tippers, Truck Tippers, Refuse Compactors, Dumper Placers etc.) compaction and transportation to the Processing Plant/Dumping Ground.



TPS RANGE – ROAD SWEEPING MACHINE



TPS RANGE OF EQUIPMENTS FOR MECHANIZED CLEANING OF ROAD/RUNWAY

TPS RANGE – ROAD SWEEPING MACHINE



RIDE-ON TYPE ROAD SWEEPING MACHINE



SELF-PROPELLED TYPE ROAD SWEEPING MACHINE

TPS RANGE – ROAD SWEEPING MACHINE



TRUCK MOUNTED ROAD SWEEPING MACHINE



LCV MOUNTED ROAD SWEEPING MACHINE



TRUCK MOUNTED RUNWAY SWEEPER

TPS MANUFACTURING PLANT IN BHIWADI



OUR QUALITY CERTIFICATES



Certification Partner Global

ISO 9001 : 2015
Quality Management
System



ISO 14001

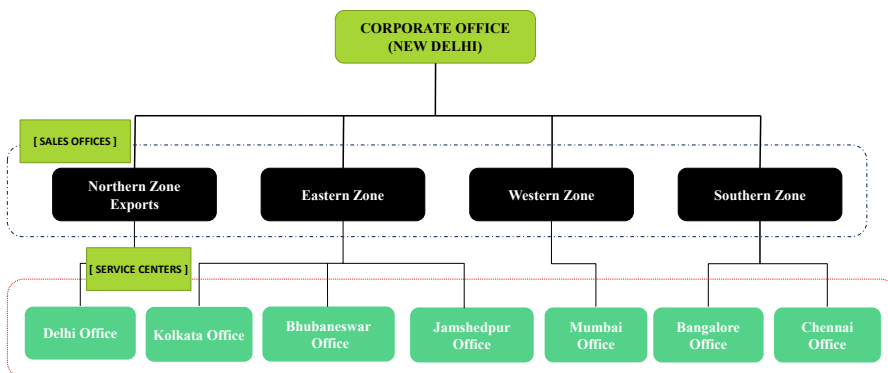
ISC GLOBAL

ISO 14001 : 2015
Environmental
Management System



OHSAS 18001 : 2007
OHSAS Management
System

TPS OFFICE NETWORK



THANK YOU



Experience Sharing

By

Centre for the Study of Social Change (CSSC), Mumbai

&

All India Institute of Local Self Government (AIILSG), Mumbai

Waste Management & Research Centre, Mumbai

15th January 2021

Interface with Stakeholders Information Sharing about SMSC with Elected Members of Municipal Corporation of Greater Mumbai

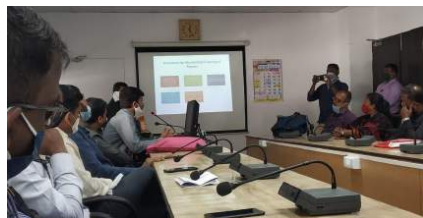




Information Sharing with Sr. Municipal Officials



Information Sharing with Sr. Municipal Officials



Workshop with SafaiMitras



Information Sharing with Sr. Municipal Officials



Workshops with Jr. Level Officials & Sanstha Members working on Sanitation at Community Level



Meeting with Communities



Measures of Health Hazards

 <p>Personal Protective Equipment (PPE)</p> <ul style="list-style-type: none"> • Mandatory to wear PPE to avoid any hazard while carrying out de-sludging services • Wear PPE to avoid direct exposure to Faecal Sludge. • Avoid unsafe working practice. • Avoid smoking while carrying out desludging services. 	 <p>Training Program</p> <ul style="list-style-type: none"> • Training program for de-sludging operators including emptier on health and safety measures. • Training programme on use of PPE. • Training program on use of First-Aid. • Provide medical insurance to the desludging operator including emptier etc. 	 <p>Immunization of Health and Safety</p> <p>Desludging workers should be immunised for: (Tetanus, Hepatitis A & B and Diphtheria).</p> <p>First-Aid equipment. Emergency eye wash facilities. Emergency contact numbers.</p>
--	--	--

Contents of Orientation

- Working at Ground Level
- Safety & Protective Measures
- Health Care
- Man to Machine Transition
- Livelihood Opportunities

Awareness for Citizens

- Segregation of Waste as per SWM Rules 2016 & Plastic Waste Management Rules 2016
- Management Rules 2016
- Storage of Segregated Waste & its Collection
- No throwing in Nalla & Gutter



Road Map

- On-Field Training with SafaiMitras –Mumbai Corporation of Greater Mumbai
- Webinars with Cities
- Orientation at Senior Level
- On Field Training with SafaiMitras at Ward Level in Cities in Maharashtra
- Preparation of Display Material(IEC)for Corporations
- Display of Safety Kit near Muster Chowki
- Experience Sharing amongst Corporations (online)
- Case Study Presentation

*Thank
you*



Fifth
COORDINATION AND EXPERIENCE SHARING MEETING-II
 10 February, 2021



IT Interventions in Fecal Sludge and Septage Management

Swachha Andhra Corporation
 Government of Andhra Pradesh



INDIVIDUAL
 HOUSEHOLD TOILETS



COMMUNITY & PUBLIC TOILETS



SOLID WASTE MANAGEMENT
 (TRANSPORTATION &
 PROCESSING)



LIQUID WASTE MANAGEMENT





Swachh Bharat Mission (URBAN) - Overview

Swachha Andhra Corporation is the nodal agency to implement the "Swachh Bharat Mission" Goals and Project Components in the Urban areas of the State.

Objectives:

- ❑ Elimination of Open Defecation, Maintenance of Hygiene & Cleanliness
- ❑ Eradication of Manual scavenging.
- ❑ Information, Education and Communication and Capacity Building activities
- ❑ Modern and Scientific Solid and Liquid Waste Management



Safaimitra Suraksha Challenge

To elevate lives of scavengers



Safaimitra: Any worker engaged in cleaning of septic tank/ sewer lines

It encourages cities to adopt Mechanized cleaning of Sewers and Septic Tank as a standardized practice, and act as a Lighthouse for other smaller cities in this regard

Who are participating cities?

The National Challenge is open to all registered **Municipal Corporations, Smart Cities and State/ UT capitals**

Award Categories:

Population Categories	1 st Prize	2 nd Prize	3 rd Prize
> 10 lakhs	Rs. 12 Crores	Rs. 6 Crores	Rs. 3 Crores
3 – 10 lakhs	Rs. 10 Crores	Rs. 5 Crores	Rs. 2.5 Crores
up to 3 lakhs	Rs. 8 Crores	Rs. 4 Crores	Rs. 2 Crores

In this regard, a toolkit and evaluation criteria for the competition is launched on the occasion of World Toilet Day (19th November 2020).

Participating city should mandatorily have the following:

- RSA (Responsible Sanitary Authority) and SRU (Sanitary Response Unit)
- Should at least have a ODF+ certificate
- Ban on SUP (Single Use Plastic)

MoHUA, GoI has nominated :

- MD, Punjab as Nodal officer for Low Cost Mechanization Solutions
- MD, Andhra Pradesh as Nodal for IT Systems
 - SSC Web and Mobile Portals for MIS
 - Citizen Grievance and Service Modules
 - Mobile App
 - Web Application
 - Toll Free - 14420



Safaimitra Suraksha Challenge To Save the Lives of Formal/Informal Workers engaged in Septic Tank/Sewer Cleaning



Bottomline

All informal Workers to be identified by the City to integrate them with formal mechanism in place for cleaning Septic Tanks/Sewer Lines

- Thrust on mechanized cleaning of sewers and septic tanks, to minimize necessity of human entry
- Availability of proper protective gears and equipment in case manual entry is unavoidable.
- Creation of conducive eco-system through:
 - trained workforce,
 - large scale citizen outreach,
 - 24x7 helpline,
 - enforcement mechanisms



Faecal Sludge and Septage Management (FSSM)

Faecal Sludge is the solid or settled contents of pit latrines and septic tanks. It comes from onsite sanitation system such as pit latrines, non-sewered public ablution blocks, septic tanks, aqua privies, and dry toilets."

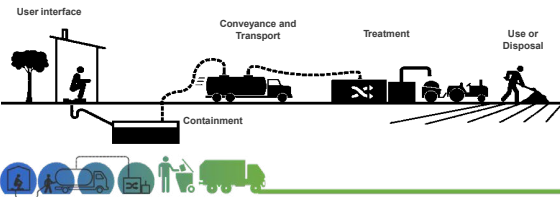
Septage is the liquid and solid material that is pumped from a septic tank, cesspool, or such onsite treatment facility after it has accumulated over a period of time. It is the combination of scum, sludge and liquid that accumulates in septic tanks.

Desludging is the process of removing both the scum and the sludge layers from your primary septic tank. Desludging at regular intervals of **3 years** is important to

- Avoid blockage of sewer drains
- Avoid contamination of water sources
- Save environment and health



Understanding the Sanitation Service Chain



ODF++: A city or ward can be declared/certified as ODF++ if the practice of open defecation or urination is controlled by establishing and maintaining CT/ PT's along with **safe and effective management of sewerage and septage / faecal sludge**

Water+: A city or ward can be declared/certified as Water+ with the practice of **safe and effective management of sewerage and septage / faecal sludge along with cost recovery mechanisms**

Faecal Sludge and Septage Management (FSSM)

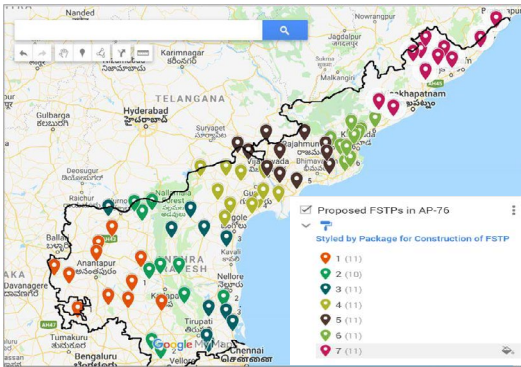


Gaps and issues in urban sanitation

- **Access:** Issues in access to toilets arise due to households having financial issues and space crunch for constructing individual toilets
- **Septage collection and conveyance:** Regular cleaning of septic tanks through a systematic extraction and collection procedure is essential to check environmental pollution.
 - Illegal Manual scavenging
 - No / Limited access to tanks
 - Lack of infrastructure, and a regulated schedule for cleaning
 - Lack of formal private players
- **Treatment and Disposal:** Typically, most small-medium towns and cities lack adequate centralized/ decentralized facilities and designated sites for sewage and for septage treatment and disposal.
- **Poor Awareness:** Faecal Sludge and septage management has been accorded low priority and there is poor awareness about its inherent linkages with public health
- **Fragmented Institutional Roles and Responsibilities:** There are considerable gaps and overlaps in institutional roles and responsibilities at the national, state, and city levels.
- **Lack of an Integrated City-wide Approach:** Faecal Sludge and septage management investments are currently planned in a piece-meal manner and do not take into account the full cycle of safe confinement, treatment and safe disposal.
- **Limited Technology Choices:** Technologies have been focussed and the disposal techniques are not environmental friendly no cost-effective, and sustainable investments for safe management and disposal has been thought off on a large scale.



ANDHRA PRADESH



About A.P

- Total number of ULBs – 110
- AMRUT cities =32 (Proposed STPs with co-treatment)
- Non AMRUT cities with stand alone FSTPs =77 + 1 with STP

Our Approach

- Co- treatment in AMRUT towns where STPs are currently developed
- Standalone FSTPs in non-Amrut towns
- Rural – urban integration

- 76 ULBs in AP organized into 7 clusters – for increasing bankability and for promoting PPP – HAM model
- Clustering based on geographical proximity to ensure operational effectiveness
- FSSM quality lab part of each cluster
- Third Party Agency for Quality Control and Quality Assurance of the FSTPs

IT Interventions in Fecal Sludge and Septage Management



Citizen Module

Complaints, Requests and Feedback

Citizen module of the App will be utilized to give complaints and requests for sewer lines, manholes and other sewerage issues. Feedback will be provided on the same platform.

Mechanized Transportation Module

Inventorisation of Vehicles and Equipments

All the registered vendors will be notified (Automatically / Manual) for collection of sewerage

ULB Module

Review and Assignment of work (with complete database)

Update of Complete infrastructure of Sewerage system
Assigning of Manual operating systems

Treatment Unit Module

Tracking of Fecal Sludge treatment

Daily log sheets of input, treatment and output parameters will be fed

Safaimitra Surakakasha Challenge

Compilation of Data base

ULBs will feed all the key parameters of the Challenge in the module



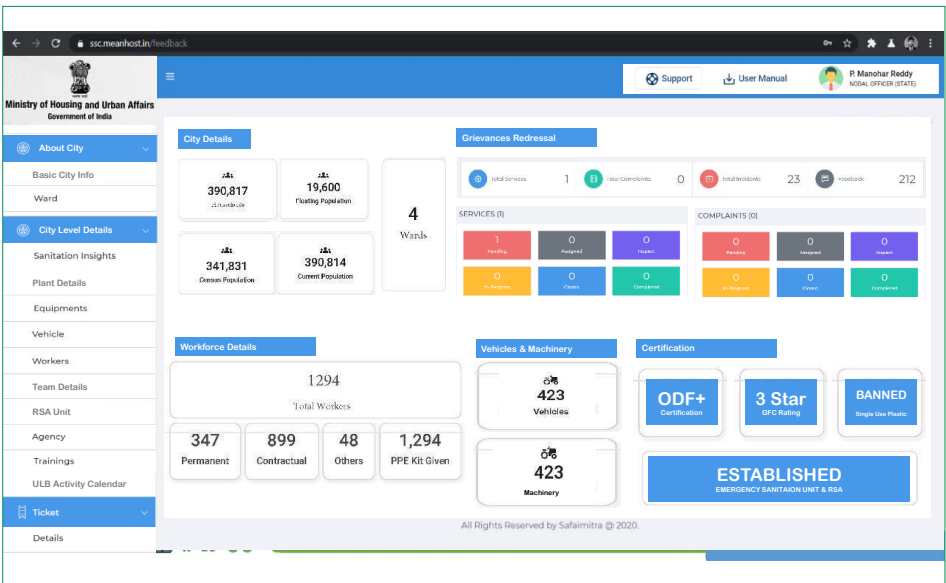
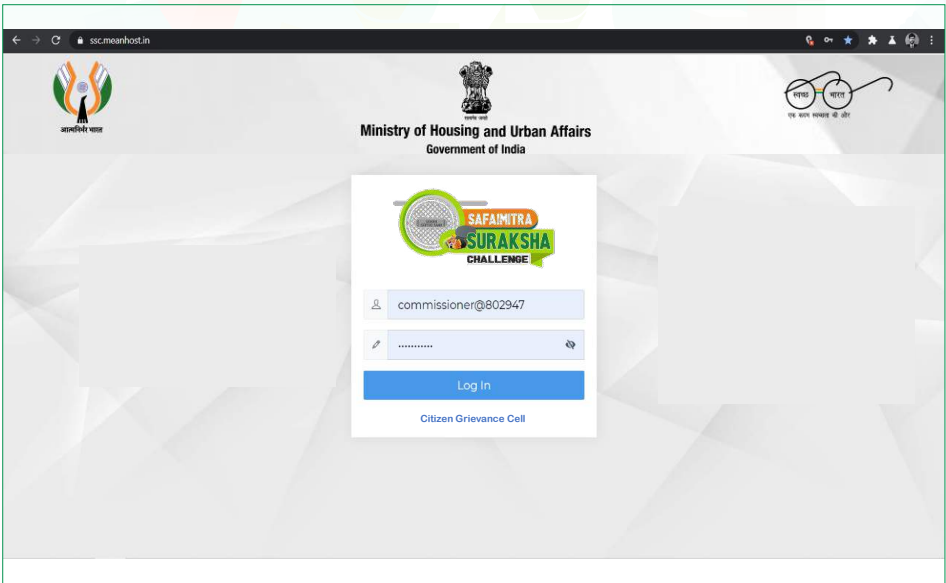


Region Name	District Name	ULB Name	Type	ULB Code	SSC Category	User Designation	User ID	Password	Remarks
Visakhapatnam	Visakhapatnam	Greater Visakhapatnam	Greater Municipal Corporation	802947	Category A	Head of the Department	commissioner@802947	802947@2021	
Visakhapatnam	Visakhapatnam	Greater Visakhapatnam	Greater Municipal Corporation	802947	Category A	Nodal Officer	nodal@802947	802947@gvmc	
Visakhapatnam	Visakhapatnam	Greater Visakhapatnam	Greater Municipal Corporation	802947	Category A	Supervisor	supervisor@802947	802947@2021	
Visakhapatnam	Visakhapatnam	Greater Visakhapatnam	Greater Municipal Corporation	802947	Category A	On-site Officer	phw0001@802947	phw0001@gvmc	Rest to be created by the supervisor
Visakhapatnam	Visakhapatnam	Greater Visakhapatnam	Greater Municipal Corporation	802947	Category A	ERSU	ersu.01@802947	ersu.802947@01	Rest to be created by the supervisor
Rajamundry	Krishna	Vijayawada	Municipal Corporation	802969	Category A	Head of the Department	commissioner@802969	802969@2021	
Rajamundry	Krishna	Vijayawada	Municipal Corporation	802969	Category A	Nodal Officer	nodal@802969	802969@gvmc	
Rajamundry	Krishna	Vijayawada	Municipal Corporation	802969	Category A	Supervisor	supervisor@802969	802969@2021	
Rajamundry	Krishna	Vijayawada	Municipal Corporation	802969	Category A	On-site Officer	phw0001@802969	phw0001@gvmc	Rest to be created by the supervisor
Rajamundry	Krishna	Vijayawada	Municipal Corporation	802969	Category A	ERSU	ersu.01@802969	ersu.802969@01	Rest to be created by the supervisor



Master (Left Tabs)	Sub-Master (Tabs)	Head of the Department		Nodal Officer		Supervisor		On-site Officer		ERSU		Call Centre	
		Screen Visibility	Access Role	Screen Visibility	Access Role	Screen Visibility	Access Role	Screen Visibility	Access Role	Screen Visibility	Access Role	Screen Visibility	Access Role
Dashboard		Yes	View only	Yes	View only	Yes	View only	No	NA	No	NA	Yes	View only
About City	Basic City Info	Yes	View and Approve	Yes	Edit	Yes	View only	Yes	View only	Yes	View only	Yes	View only
	Ward Details	Yes	View and Approve	Yes	Edit	Yes	View only	Yes	View only	Yes	View only	Yes	View only
City Level Details	Sanitation Insights	Yes	View and Approve	Yes	Edit	No	NA	No	NA	No	NA	No	NA
	Plant Details	Yes	View and Approve	Yes	Edit	No	NA	No	NA	No	NA	No	NA
	Equipments	Yes	View and Approve	Yes	Edit	Yes	View only	Yes	View only	Yes	View only	No	NA
	Vehicles	Yes	View and Approve	Yes	Edit	Yes	View only	Yes	View only	Yes	View only	No	NA
	Workers	Yes	View and Approve	Yes	Approve Only	Yes	Edit	No	NA	No	NA	No	NA
	Team Details	Yes	View and Approve	Yes	Approve Only	Yes	Edit	No	NA	No	NA	No	NA
	Responsible Sanitation Authority	Yes	View and Approve	Yes	Edit	Yes	View only	No	NA	No	NA	No	NA
	Trainings	Yes	View and Approve	Yes	Edit	Yes	View only	No	NA	No	NA	No	NA
	ULB Activity Calendar	Yes	View and Approve	Yes	Edit	Yes	View only	No	NA	No	NA	No	NA
	Ticket	Details	Yes	View only	Yes	View only	Yes	Approve Only	Yes	Edit	Yes	Edit	No
Status		Yes	View only	Yes	View only	Yes	View only	Yes	Edit	Yes	Edit	No	NA
Performance		Yes	View only	Yes	Edit	No	NA	No	NA	No	NA	No	NA
Safaimitra Suraksha Challenge	Core Parameters	Yes	View and Approve	Yes	Edit	No	NA	No	NA	No	NA	No	NA
	Eco Parameters	Yes	View and Approve	Yes	Edit	No	NA	No	NA	No	NA	No	NA
	Survey Report	Yes	View only	Yes	View only	No	NA	No	NA	No	NA	No	NA
	Alerts	Yes	View only	Yes	View only	No	NA	No	NA	No	NA	No	NA
User Administration	Info	Yes	View only	Yes	View only	No	NA	No	NA	No	NA	No	NA
	User List	Yes	View only	Yes	Edit	No	NA	No	NA	No	NA	No	NA
Grievance Cell	Contacts	Yes	View only	Yes	View only	No	NA	No	NA	No	NA	No	NA
		No	NA	No	NA	No	NA	No	NA	No	NA	Yes	Edit





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Government of India

Support User Manual P. Manohar Reddy
NODAL OFFICER (STATE)

ABOUT CITY

Home / City Basic Info / About City

DISPLAY NAME OF THE CITY

Display Name* Rajahmundry Area (In Sq. Km)* 44 Census(2011) Population 341831 Population From Ward 390917

Founding population 19000 City Current Population 390814 Is it a statutory town? Yes No

1. **OFF Name of the ULB ***
 None
 G.P.
 Gram Panchayat
 Water
 Upload Files

2. **Establishment of ERS/WSA At The ULB ***
 Yes
 No
 Upload Files
*Only PDF Files are accepted.

3. **Ban On Single Use Plastic ***
 Yes
 No
 Upload Files
*Only PDF Files are accepted.

4. **Participating in Safaimitra Suraksha Challenge**
 Yes
 No

CONTACT DETAILS

Designation: Municipal Commissioner Contact Person: Mahabubath Kishore

Designation: Nodal Officer Contact Person: A. venkatesh

Edit Back

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NODAL OFFICER (STATE)

WARD LIST

Home / City Basic Info / Ward List

Click to Search

LIST OF WARDS

WARD NUMBER	WARD NAME	ZONE NAME	PINCODE	ACTION
1	1ST WARD	EAST	533105	
2	2ND WARD	EAST	533103	
3	3RD WARD	EAST	533103	
4	4TH WARD	EAST	533103	
5	5TH WARD	CENTRAL	533103	
6	6TH WARD	CENTRAL	533103	
7	7TH WARD	CENTRAL	533103	
8	8TH WARD	CENTRAL	533103	
9	9TH WARD	EAST	533103	
10	10TH WARD	EAST	533103	

Items per page: 10 1 - 10 of 50

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SANITATION INSIGHTS

Sanitation Insights Sanitation Insights

1. Whether The ULB Maintains An Inventory Of Septic Tanks That Need Desludging On A Timely Basis (Once In Every Three Years) *
 - NA
 - No
 - Yes
2. Estimated Number Of Septic Tanks Which Require Every Year *
3. Estimated Quantity Of Septage To Be Desludged From These Septic Tanks *
4. No Of Septage Collection Vehicles Required For Desludging The Estimate Quantity Of Septage Generated *

Sanitation Insights

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PLANT DETAILS

- 1) Do you have a Sewage or Faecal SLudge Treatment Plant *
 - STP FSTP
- 2) Capacity of the Plant
- 3) Status of the plant *
 - DPR Stage Construction Phase Operational Disfunctional / Maintenance
- 4) If STP, is the STP fitted with co-treatment facility *
 - Yes No

Sanitation Insights

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Government of India

Support User Manual P. Manohar Reddy KODLA (OFFICER STATE)

EQUIPMENTS

show 10 records

Showing 1 to 10 of 44 entries

Search here. [Download Excel](#)

Sno	Productid	Productname	Category	Status	Lastupdated	Sno	Subcategory	Action
1	1001	Air compressor for blower	PPE	1	2020-11-30T00:00:00	1	Basic Maintenance	Edit View
2	1002	Air line breathing apparatus	PPE	1	2020-11-30T00:00:00	2	Basic Maintenance	Edit View
3	1003	Air line respirator with manually operated air blower	PPE	1	2020-11-30T00:00:00	3	Basic Maintenance	Edit View
4	1004	Air Purifier,Gas mask/chin cortage	PPE	1	2020-11-30T00:00:00	4	Special Equipment	Edit View
5	1005	Artificial respiration/Reticulate	PPE	1	2020-11-30T00:00:00	5	Special Equipment	Edit View
6	1006	Barrier caution tape	PPE	1	2020-11-30T00:00:00	6	Basic Maintenance	Edit View
7	1007	Barrier cream	PPE	1	2020-11-30T00:00:00	7	Basic Maintenance	Edit View
8	1008	Barrier cone	PPE	1	2020-11-30T00:00:00	8	Basic Maintenance	Edit View
9	1009	Blower	PPE	1	2020-11-30T00:00:00	9	Basic Maintenance	Edit View

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VEHICLEMASTER

show 10 records

Showing 1 to 2 of 2 entries

Search here. [Download Excel](#)

Sno	Agencyid	Vehicle Id	Platenumber	Licence No	Expirydate	Health Status	Driverid	Driver Mobile	Driverlicenceno	Licence Expirydate	Ca
1	18001	7383	AP31BR7383	AP31BR7383	2020-12-11T00:00:00		1	9898002567	090909090909090900	2020-12-24T00:00:00	50
2	18001	7384	AP31BR7383	AP31BR7383	2021-01-07T00:00:00		2	9898002567	090909090909090900	2021-01-09T00:00:00	3

Previous 1 Next

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NOKA, OFFICE (STATE)

WORKER MASTER

Dashboard > Worker Master

show 10 records
Showing 1 to 10 of 68 entries

Search here. [Download Excel](#)

Sno	WorkerId	AgencyId	Name	Gender	Dob	Doj	Skintype	Designation	Mobile1	Mobile2	HealthHistory
1	20		SUBBA RAO9	Male	2020-11-30T00:00:00	2020-12-15T05:11:25:29	NA	SWEEPER	9898989898	9898989898	
2	60	18010	SUBBA RAO9	Male			NA	DRIVER	9898989898	9898989898	
3	18		SUBBA RAO8	Male	2020-11-30T00:00:00	2020-12-15T05:11:25:29	NA	SWEEPER	9898989898	9898989898	
4	59	11885	SUBBA RAO8	Male			NA	DRIVER	9898989898	9898989898	
5	16		SUBBA RAO7	Male	2020-11-30T00:00:00	2020-12-15T05:11:25:29	NA	SWEEPER	9898989898	9898989898	
6	58	11884	SUBBA RAO7	Male			NA	DRIVER	9898989898	9898989898	

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NOKA, OFFICE (STATE)

TEAM MASTER

Dashboard > Team Master

show 10 records
Showing 1 to 10 of 56 entries

Search here. [Download Excel](#)

Sno	Sno	TeamId	Teamname	Uibid	JobId	Remarks	Createddate	Status	Action
1	59	59	Team_1280	803002	1280	started work knw the status is Inprogress	2020-12-30T12:24:20.86	1	✎ 🔍
2	57	57	Team_1273	803009	1273		2020-12-23T18:15:31.01	1	✎ 🔍
3	56	56	Team_1270	803002	1270	Starting work	2020-12-23T12:33:38.657	1	✎ 🔍
4	47	47	Team_1262	803002	1262	Inprogress status	2020-12-22T12:25:30.673	1	✎ 🔍
5	40	40	Team_1249	803002	1249	Inprogress	2020-12-21T11:19:25.143	1	✎ 🔍
6	37	37	Team_1244	803002	1244	ok	2020-12-19T16:27:08.73	1	✎ 🔍
7	36	36	Team_1228	803002	1228		2020-12-19T15:54:17.373	1	✎ 🔍
8	38	38	Team_1227	803002	1227		2020-12-19T17:54:57.36	1	✎ 🔍
9	34	34	Team_1225	803009	1225		2020-12-19T10:32:36.647	1	✎ 🔍
10	32	32	Team_1224	803009	1224	Team add	2020-12-19T10:14:04.987	1	✎ 🔍

Previous 1 2 3 4 5 6 Next

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NODAL OFFICER (STATE)

AGENCY MASTER

show 10 records

Showing 1 to 10 of 16 entries

Search here. [Download Excel](#)

Sno	AgencyId	UlbId	Agencyname	Address	City	District	State	Pincode	Contact Person	Contact Phone	Contact Email
1	18003	802981	Agency 18003	XYZ	GUNTUR	113	2	NA	MCHANA VAMSI	9898989898	guntur@guntur.com
2	18002	802981	Agency 18002	XYZ	GUNTUR	113	2	NA	MCHANA VAMSI	9898989898	guntur@guntur.com
3	18001	802981	Agency 18001	XYZ	GUNTUR	113	2	NA	MCHANA VAMSI	9898989898	guntur@guntur.com
4	11895	803019	Agency 11895	Chittoor	Chittoor		2				
5	11894	803014	Agency 11894	Tirupati	Tirupati		2				
6	11893	803009	Agency 11893	Anantapur	Anantapur		2				
7	11892	803002	Agency 11892	Kurnool	Kurnool		2				

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Government of India

Support User Manual P. Manohar Reddy
NODAL OFFICER (STATE)

ULB TRAININGS

show 10 records

Showing 1 to 3 of 3 entries

Search here. [Download Data](#)

Sno	UlbId	TrainingId	Training Type	Training Name	Training Date	Training Mode	Location	Organizedby	Ulbstaff	Agencystaff	Doc Url	Cre
1	802981	1	WORKSHOP	SEPTIC TANKS DESIGN	2020-12-23T00:00:00	ON SITE						2020-02T14
2	802981	2	WORKSHOP	MIS PORTAL	2020-12-08T00:00:00	VIRTUAL						2020-02T14
3	802981	3	STREET PLAY	IEC ACTIVITY	2020-12-30T00:00:00	ON SITE						2020-02T14

Previous 1 Next

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NOKAL OFFICER (STATE)

ACTIVITY CALENDAR

December 2020

Previous Today Next Month Week Day

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

ADD NEW EVENT

Event Type

December 30, 2020 23:08

Type event information

[ADD NEW EVENT](#)

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Government of India

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NOKAL OFFICER (STATE)

TICKET DETAILS

show 10 records

Showing 1 to 1 of 1 entries

Search Here. [Download Export](#)

Sno	Ticket Id	Status	Before Pic	After Pic	Jobdate	Task Id	Assigned Date	Completed Date	Email	City Id	Pincode	War
1	1141	Open	NO IMAGE AVAILABLE	NO IMAGE AVAILABLE	14/12/2020	10001			stewart@gmail.com		533101	

Previous 1 Next

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TICKET STATUS Dashboard Ticket Status

Email Id / Mobile Number / Ticket Id *

Email Id / Mobile Number / Ticket Id

Submit

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- Basic City Info
- Ward
- City Level Details
 - Sanitation Insights
 - Plant Details
 - Equipments
 - Vehicle
 - Workers
 - Team Details
 - RSA Unit
 - Agency
 - Trainings
 - ULB Activity Calendar
- Ticket
 - Details
 - Status

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Government of India

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NODAL OFFICER (STATE)

PERFORMANCE STATUS pageinfoties.Dashboard pageinfoties.Performance

Core Parameters : 700 Marks

Eco-System Parameters : 300 Marks

Category	Sub-category	Score	Max Score
Core Parameters : 700 Marks	Citizen empowerment <ul style="list-style-type: none"> 24x7 Helpline Public Awareness Campaigns 	Score 0/200	200
	Mechanised cleaning <ul style="list-style-type: none"> Equipment & Infrastructure Workforce 	Score 0/400	400
	Mechanised cleaning - Soft measures <ul style="list-style-type: none"> Capacity Building Empowerment of Safaimitra 	Score 0/300	300
Eco-System Parameters : 300 Marks	Sustainable O&M	Score 0/50	50
	Treatment Capacity & Actual Treatment	Score 0/50	50
	Standardization of Septic Tank	Score 0/50	50
	Periodic Preventive Maintenance	Score 0/50	50

- Agency
- Trainings
- ULB Activity Calendar
- Ticket
 - Details
 - Status
- Safaimitra Suraksha
 - Performance
 - Challenge
 - Core Parameters
 - Eco Parameters
 - Survey Report
 - Info
 - Alerts
 - Info

Ministry of Housing and Urban Affairs
Government of India

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NOKAL OFFICER (STATE)

CORE PARAMETER Dashboard > Core Parameter

- Agency
- Trainings
- ULB Activity Calendar
- Ticket
- Details
- Status
- Safaimitra Suraksha**
 - Performance
 - Challenge
 - Core Parameters
 - Eco Parameters
 - Survey Report
 - Info
 - Alerts
 - Info

Please submit all question in **Qualifying the Conditions**

Answer Now

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NOKAL OFFICER (STATE)

ECO PARAMETER Dashboard > Eco Parameter

- Agency
- Trainings
- ULB Activity Calendar
- Ticket
- Details
- Status
- Safaimitra Suraksha**
 - Performance
 - Challenge
 - Core Parameters
 - Eco Parameters
 - Survey Report
 - Info
 - Alerts
 - Info

Please submit all question in **Qualifying the Conditions**

Answer Now

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Government of India

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NODAL OFFICER (STATE)

SAFAIMITRA CHALLENGE REPORTS

Dashboard > Total Requests

- Agency
- Trainings
- ULB Activity Calendar
- Ticket**
 - Details
 - Status
- Safaimitra Suraksha**
 - Performance
 - Challenge
 - Core Parameters
 - Eco Parameters
 - Survey Report
 - Info
 - Alerts
 - Info

Queries answered related to services available/legal obligations (QID:3)
[SHOW](#)

Complaints can be registered 24x7 (QID:4)
[SHOW](#)

Real Time Status of Complaints available including resolution (QID:5)
[SHOW](#)

Complaint is not closed till complainant is satisfied and 4 digit Happiness Code shared for closure or any other mechanism to ensure customer is satisfied before complaint is closed (QID:6)
[SHOW](#)

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Government of India

Support User Manual R. Manohar Reddy
NODAL OFFICER (STATE)

ALERTS

Dashboard > Alerts

- Agency
- Trainings
- ULB Activity Calendar
- Ticket**
 - Details
 - Status
- Safaimitra Suraksha**
 - Performance
 - Challenge
 - Core Parameters
 - Eco Parameters
 - Survey Report
 - Info
 - Alerts
 - Info

Alert 01 [DOWNLOAD](#)

Alert 02 [DOWNLOAD](#)

Alert 03 [DOWNLOAD](#)

Alert 04 [DOWNLOAD](#)

Alert 05 [DOWNLOAD](#)

Alert 06 [DOWNLOAD](#)

Alert 07 [DOWNLOAD](#)

Alert 08 [DOWNLOAD](#)

Alert 09 [DOWNLOAD](#)

Alert 10 [DOWNLOAD](#)

Alert 11 [DOWNLOAD](#)

Alert 12 [DOWNLOAD](#)

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SAFAI MITRA INFORMATION

DOWNLOAD BROCHURE

Important Timelines

- Launch of Challenge ➡➡ **19th November 2020**
- Preparatory period ➡➡ **19th Nov to 31st March 2021**
- Monthly Progress Evaluation ➡➡ **February, March and April 2021**
- TFC Activities update on portal ➡➡ **January 2021 onwards**

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Government of India

USER LIST

Click to Search

LIST OF USERS

USERNAME	ULB CODE	DEPARTMENT	DESIGNATION	ROLE	LOGIN ALLOWED?	ACTION
No Records Found..						

Items per page: 10 0 of 0

Ministry of Housing and Urban Affairs
Government of India

Support User Manual P. Manohar Reddy
NDWA, OFFICER (STATE)

CONTACTS

Home / Contacts Management / Contacts

Click to Search

LIST OF CONTACTS Add New

NAME	CONTACT LEVEL	DESIGNATION	MOBILE	EMAIL	CREATEDAT	ACTION
Dr KSLG SASTRY	ULB	Nodal Officer	9848308823		Dec 19, 2020	
P R Manohar	ULB	Nodal Officer	7680830222		Jul 30, 2020	
K Krishna Vani	ULB	Engineer	9490210846		Jul 30, 2020	
K Dinesh Kumar	ULB	Municipal Commissioner	9849902609	commissioner_nellore@yahoo.co.in	Sep 19, 2020	
T Harish	ULB	Nodal Officer	8686226952	harishatakg@gmail.com	Oct 23, 2020	
B Prahalad	ULB	Municipal Commissioner	7032711552		Jul 30, 2020	
Devika	ULB	Nodal Officer	9494564165		Aug 5, 2020	
Rama Chandra Reddy	ULB	Municipal Commissioner	9849905831	mrspet_67035@yahoo.co.in	Jul 17, 2020	
Deva Ravi Kumar	ULB	Municipal Commissioner	8008559284	chimakurthy.naganpanchayat@gmail.com	Jul 18, 2020	
Suekara Anjireddy	ULB	Engineer	8008559285	chimakurthy.naganpanchayat@gmail.com	Aug 4, 2020	

Items per page: 10 1 - 10 of 1300

Ministry of Housing and Urban Affairs
Government of India

Support User Manual P. Manohar Reddy
NDWA, OFFICER (STATE)

GRIEVANCE REDRESSAL

Dashboard / Grievance Redressal

Lodge your grievance

Citizen Name *

Mobile Number *

Alternative Mobile Number

Select state * **ANDHRA PRADESH**

Select ULB *

Select Ward *

Address *

Land Mark *

Ticket Type *

Query Raised

Description

Details of Query Raised

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Government of India

Support User Manual R Manohar Reddy
Nodal Officer (State)

GRIEVANCE REDRESSAL

Dashboard Grievance Redressal

Lodge your grievance

Citizen Name *
Citizen Name

Mobile Number *
Mobile Number

Alternative Mobile Number
Alternative Mobile Number

Select state *
ANDHRA PRADESH

Select ULB *
Select ULB

Select Ward *
Select Ward

Address *
Address

Land Mark *
Land Mark

Ticket Type *
Service

Query Raised
Details of Query Raised

- Desludging of Household Septic Tank
- Desludging of Community and Public Toilet SepticTanks
- Desilting of open drains
- Others

Description
Description

Ministry of Housing and Urban Affairs
Government of India

Support User Manual R Manohar Reddy
Nodal Officer (State)

GRIEVANCE REDRESSAL

Dashboard Grievance Redressal

Lodge your grievance

Citizen Name *
Citizen Name

Mobile Number *
Mobile Number

Alternative Mobile Number
Alternative Mobile Number

Select state *
ANDHRA PRADESH

Select ULB *
Select ULB

Select Ward *
Select Ward

Address *
Address

Land Mark *
Land Mark

Ticket Type *
Complaint

Query Raised
Details of Query Raised

- Overflow of water from sewer pipes
- Overflow of water from manholes
- Broken / No Manhole covers
- Improper Disposal of Fecal Waste/Septage
- Public Toilet(s) Cleaning
- Others

Description
Description

Mobile App

Introduction

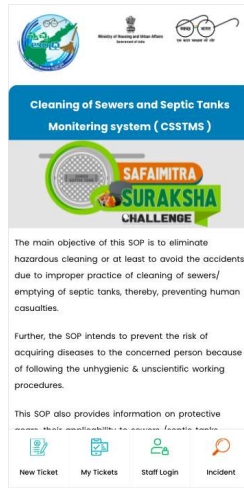
This app is developed for all internal and external use. For Survey and Incident reporting.

Safaimitra Suraksha

Main Agenda

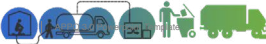
1. New Request
2. Track Order
3. Staff Login
4. Incident

Analytics on Survey



User Dashboard will be displayed on the screen after login .

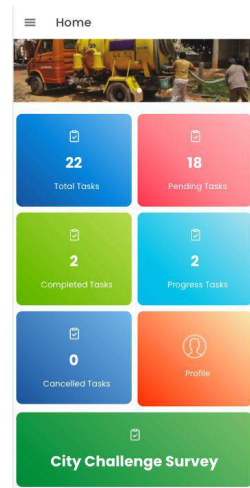
Dashboard contains – “Total Tasks”, “Pending Tasks”, “Completed Tasks”, “Progress Tasks”, “Cancelled Tasks”, “Profile” and “City Challenge Survey”



City Challenge Survey

Click on "City Challenge Survey" to take down the survey

Survey contains 4 sections on different category



City Challenge Survey

Click on "City Challenge Survey" to take down the survey

Survey contains "Two Sections"

Section 1: Core Parameters

Section 2: Eco-System Parameters



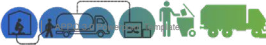
City Challenge Survey

Section 1: Core Parameters

Sub-Sections1: Citizen empowerment

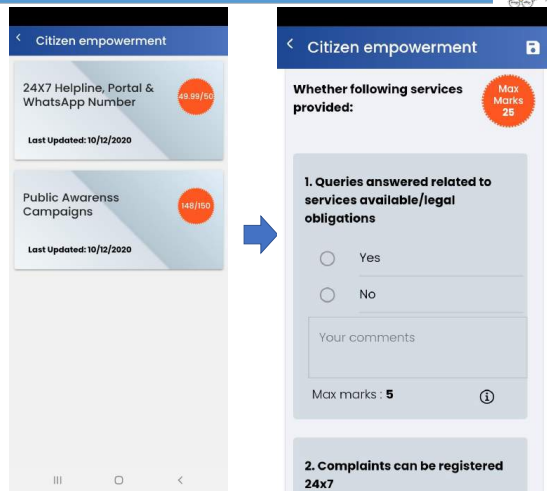
Sub-Sections2:Mechanised Cleaning

Sub-Sections3.: Mechanised Cleaning-Soft Measures



Citizen Empowerment Survey

Click on "Citizen Empowerment" user will navigate to the "Survey questions categories"



Mechanised Cleaning Survey

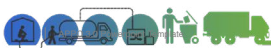
Click on Infrastructure & Equipment

Click on Workforce

< Mechanised cleaning

Infrastructure & Equipment

Workforce



Mechanised Cleaning –Soft Measures

Click on Capacity Building

Click on Empowement of Safaimitra

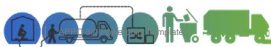
Click on Empowement of Safaimitra(b)

< Mechanised cleaning – Soft measures

Capacity Building

Empowement of Safaimitra

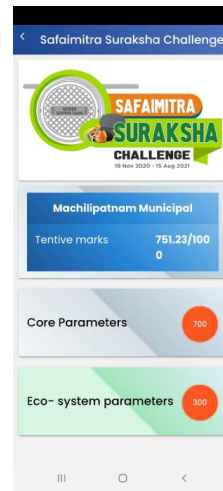
Empowement of Safaimitra(b)



Eco –System Parameters

Click on Eco –System Parameters

System will navigate to category wise questionnaire.



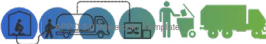
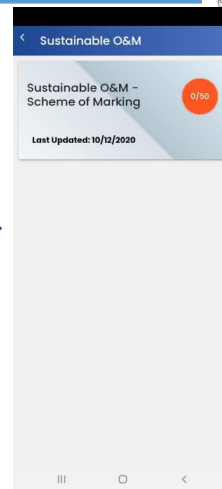
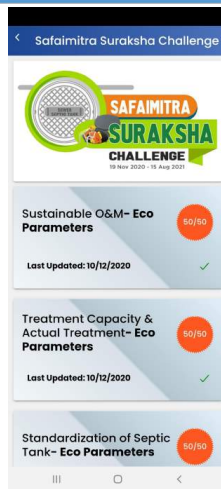
Eco- System Parameters

Click on "Sustainable O & M

Click on Treatment Capacity & Actual Treatment

Standardization of Septic Tank

Periodic Preventive Maintenance



Total Tasks

Click on Total Tasks

Total Task Summary

The screenshot shows a mobile application interface with a 'Home' screen and a 'Total Tasks' screen. The 'Home' screen features a grid of task status cards: Total Tasks (22), Pending Tasks (18), Completed Tasks (2), Progress Tasks (2), Cancelled Tasks (0), and a Profile card. A 'City Challenge Survey' button is at the bottom. The 'Total Tasks' screen shows a search bar and a list of tasks with details like user names (Radhika, John), phone numbers, and locations (Tenali, Guntur, Gravity).

Swachha Andhra Corporation
Government of Andhra Pradesh

Thank you

PUBLIC AWARENESS CAMPAIGN
IEC ACTION PLAN
SAFAI MITRA SURKASHA CHALLENGE &
FAECAL SLUDGE MANAGEMENT



URBAN ADMINISTRATION & DEVELOPMENT
DEPARTMENT, GOVT. OF CHHATTISGARH

Sanitation in Urban Chhattisgarh

- Chhattisgarh is the only State in the country with ODF++ Certification.
- Chhattisgarh becomes the fastest moving state towards attaining the status of ODF++ with all 166 ULBs certified with ODF++ in year 2020 and 112 ULBs were certified with ODF++ status in year 2019 which counts to be 75% of the total certified ULBs across PAN India in the year 2019.. As an early mover the first FSTP in Chhattisgarh was operational since Dec'16 and now every ULB in C.G. has its own scientific disposal of Faecal Matter.



Designating Safaimitra as “Captain Clean”

- Along frequent and proper measures with infrastructure creation for mechanized cleaning and capacity building, Chhattisgarh has also taken measures in creating citizen awareness uplifting social status of Safaimitra's. Since 2016 Chhattisgarh Government undertook massive communication campaign with Chhota Bheem as mascot to eliminate the existing taboo associated with cleaning and waste handling by inducing a sense of pride in being called as Captain Clean.

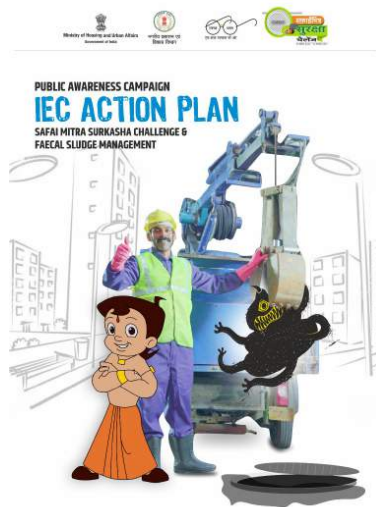


Our Approach...



LAUNCH OF IEC BOOKLET

- Leading the way in **IEC of Safaimitra Suraksha Challenge and Faecal Sludge Management** Chhattisgarh government is launching booklet with more pragmatic activities for easy mode of campaign execution by Urban Local Bodies. Through booklet the duties of citizens have been mentioned in an innovative way which aims at preventing hazardous cleaning of sewers/septic tanks, and promote mechanised cleaning. An effort has also been made to provide citizens with information related to their duties of periodic septic tank and sewer cleaning.
- Mix of three communication channels are adopted
 - a.) Mass Communication
 - b.) Mid Communication
 - c.) Inter-personal Communication



IEC Activities

- 24x7 Helpline number, Portal and WhatsApp Number
- Focussed Group Discussions in Vulnerable Areas
- Training of Safaimitras
- IEC Video and Jingles
- Ads in Railway Station
- Ads in Airport
- Ads in Theatres
- Ads in Regional Television Channels
- Ads in FM's
- Ads in Newspapers
- Ads in Magazines
- Munadi
- Tipper Branding
- Train Handles
- Sound System in Tipplers
- Social Media Creative
- Comic Book Distribution
- Hoardings
- Posters
- Posters for Service Providers
- Handbills
- Dustbin Stickers
- Sticker in Shops
- Cess-Pool Truck Branding
- Name Plate Stickers
- Auto Rickshaw Panel Advertising
- Pole Banners
- Street Play Script



24X7 HELPLINE NUMBER, PORTAL
AND WHATSAPP NUMBER



State Helpline no. Nidan 1100 is integrated with
Government of India's Helpline no. 14420



9981611100

will be whatsapp Helpline Number



FOCUSED GROUP DISCUSSIONS IN VULNERABLE AREAS



Fortnight Chaupals in unplanned colonies, Slums, Identified Hot Spots



TRAINING OF SAFAIMITRAS



1. Identification of Safaimitras
2. Registration of Safaimitras to Health Schemes
3. PPE Kit Distribution
4. Training of Mechanized Cleaning
5. Awareness of 14420 and their legal rights



IEC VIDEOS

AND JINGLES



Uncle ke Paani main Malasur

Video Spot | Duration - 01:19 Min

Purpose- Promoting Household Septic tank Cleaning



Uncle Jail Kahan Hai!!!

Video Spot | Duration- 01:42 Min

Purpose- Promoting Mechanized and Safe Cleaning of Septic tank/Sewer

ADS IN THEATRES

ADS IN RAILWAY STATIONS

SOUND SYSTEM IN TIPPERS

ADS IN REGIONAL TELEVISION CHANNELS

ADS IN FM CHANNELS

HOARDINGS

Ministry of Housing and Urban Affairs
Government of India

नगरीय विकास एवं
विस्तार विभाग

स्वच्छ सर्वेक्षण 2021

असुरक्षित साफाई कानूनी अपराध है

सुरक्षित साफाई

बचाओ-बचाओ साफाईमित्र को बचाओ

सेरिक टैक और सीयर की असुरक्षित साफाई होने पर **14420** में कॉल लगाओ

सुरक्षित साफाई कॉल 1100

साफाईमित्र सुरक्षा

चेन्नई

नगरपालिका - 600 001



HOARDINGS

असुरक्षित सफाई से सफाई मित्र को...

- जान का खतरा
- गंभीर बीमारी का खतरा
- परिवार/सहकर्मियों को भी संक्रमण का खतरा

1100 में कॉल कर सुरक्षित सफाई कराएं

बचाओ-बचाओ सफाईमित्र को बचाओ सेप्टिक टैंक और सीवर की असुरक्षित सफाई होने पर **14420** में कॉल लगाओ



HOARDINGS

पानी को मलासुर से बचाओ

1100 में कॉल कर हर 3 साल में सेप्टिक टैंक जरूर साफ़ कराएं

SEPTIC TANK के OVERFLOW से निकला मल यानी मलासुर नाली, नदी होते हुए आपके घर में आ सकता है !!!

HOARDINGS

सफाई करें अपराध नहीं

सेप्टिक टैंक और सीवर की असुरक्षित सफाई अपराधी नहीं है

सुरक्षा नहीं तो सफाई नहीं

- 1. सुरक्षा के उपकरण
- 2. सुरक्षा के कवच
- 3. सुरक्षा के उपकरण
- 4. सुरक्षा के उपकरण

ध्यान करें अनदेखा नहीं

सेप्टिक टैंक और सीवर की असुरक्षित सफाई की सुरक्षा तुल्य 1969 पर है

सुरक्षा नहीं तो सफाई नहीं

- 1. सुरक्षा के उपकरण
- 2. सुरक्षा के कवच
- 3. सुरक्षा के उपकरण
- 4. सुरक्षा के उपकरण

हर 3 साल में जरूर सेप्टिक टैंक साफ़ करवाओ

पानी को मत्स्य से बचाओ

सुरक्षित और सुरक्षित

सुरक्षित और सुरक्षित

अब वस!

सेप्टिक टैंक और सीवर की असुरक्षित सफाई करना कर्मचारी नहीं है

अब वस!

सेप्टिक टैंक और सेप्टिक टैंक की असुरक्षित सफाई के दौरान दम घुटे से सुरक्षा कमजोर हो जा सकती है लेकिन...

POSTERS

Ministry of Housing and Urban Affairs, Government of India

नगर विकास एवं शहरी सुरक्षा

सफाई मित्र

सर्वेक्षण 2021

14420 में कॉल कर असुरक्षित सफाई को रोके सफाई मित्र की जान बचाए

असुरक्षित सफाई का खतरा है

1100 में कॉल कर सुरक्षित सफाई कराए



POSTERS



Ministry of Housing and Urban Affairs
Government of India

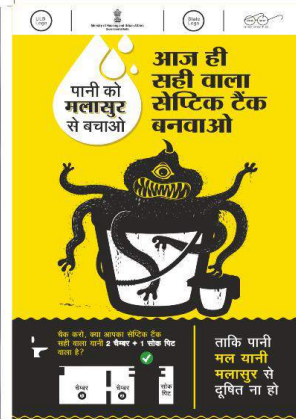
सफाई प्रवर्धन एवं
विकास विभाग

सफाई
सुरक्षा
चैलेंज

स्वच्छ
सर्वेक्षण 2021



POSTERS



NAME PLATE STICKER

NAME PLATE STICKER

SOCIAL MEDIA CREATIVES

SOCIAL MEDIA CREATIVES



TIPPER TROLLEY BRANDING



TIPPER TROLLEY BRANDING





DUSTBIN STICKER



DUSTBIN STICKER



SHOP STICKER



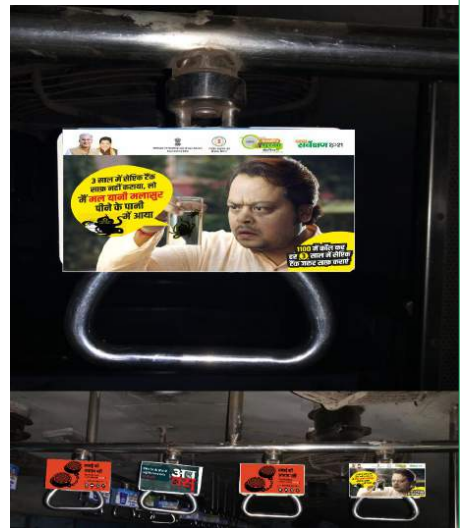




CESSPOOL TRUCK BRANDING



TRAIN HANDLE





Thank You

अब की बारी

स्वच्छ नमस्कार के साथ सुरक्षित नमस्कार की तैयारी



Tiruchirappalli City Corporation
TamilNadu

Total marks : 700

Core Parameters

I	Citizen Empowerment	Current status	Support provided by IHHS
a	24 X 7 Helpline	Active	Extending support for strengthening the existing system and subsequently popularising it
b	Public awareness campaigns	Initiated	TCC is piloting Kakkaman campaign designed by IHHS .
II	Mechanised Cleaning: Personnel & Machine		
a	Basic maintenance of machines	Jet trucks, suckers , gulpers etc. are available. Further procurement is being planned.	DSOs were oriented with portable blockage removal tool for septic tanks and sewer
b	PPE & safety gears	Basic PPEs and safety gears have been provided to <i>Safaimitra</i> . Safety gears that are required for emergency entries are yet to be in place.	Extending support for selecting appropriate PPE for DSOs working with TCC
c	Workforce as per CPHEEO norms	In place	
III	Mechanised Cleaning: Soft Measure		
a	Capacity Building	Training on usage and importance of PPE provided.	Trainings on government norms, proper disposal, safety procedures and first aid are in progress
b	Empowerment of <i>Safaimitra</i>	Soft loans are being provided to <i>Safaimitra</i> through TAHDCO.	Vocational Skill training are provided to safaimitra/ their family members. Support was extended for informal Safaimitra towards business plan development .

TN US SP

Total marks : 300

Eco - System Parameters

1	Periodic Preventive Maintenance	Current status	Support provided by IIHS
a	Scheduled desludging of septic tanks & sewer manholes	Periodic desludging of CT/PT is being practiced. Scheduled desludging of households is not practiced. However, there is provision for services at subsidised rate	<ul style="list-style-type: none"> Assessment of containment structure of all CT/PTs connected to onsite system Development of periodic desludging schedule. Handholding and monitoring support towards operationalising periodic desludging
b	All Critical hot -spots mapped	The city runs efficient Co-treatment facilities.	Geo-spatial mapping of all potential hotspots is being planned.
c	Sanitation Coverage % and geo-tagging	UGSS mapping has been completed. Geo tagging of septic tanks to be initiated.	
II Sustainable O&M			
a	Revenue collection and record keeping	To be strengthened.	App has been prepared to streamline record keeping, tipping fee collection and O&M process at decanting station.
III Treatment Capacity & Actual Treatment			
a	Collection and treatment	The City has two WSPs. Repair and maintenance works are being undertaken. Additional treatment plant is also in the pipeline.	WSP improvement plan along with estimates have been shared with TCC
IV Innovations			
a	Development/implementation of containment	Different technologies like DEWATS, shallow sewer system have been experimented	DRDO, Tiger Worm based technologies are being experimented

Eco - System Parameters

V	Periodic Preventive Maintenance	Current status	Support provided by IIHS
a	Incorporation into building bye laws.	Computerized approval system in place . However the existing system only scrutinise whether area has been earmarked for septic tank or not .	<ul style="list-style-type: none"> Model septic tank has been constructed at DRDA sanitation park to popularise the concept & dimension among the citizens. Facilitation of amendment of TNCDDBR Rule 2019 with incorporation with different standardisation

TN US SP



Thank you

TN | US | SP

JALODBUST™

- Eradicating 'Manual Scavenging'

Mechanizing Faecal Sludge Management for Dignified Livelihoods

Rakesh Kasba

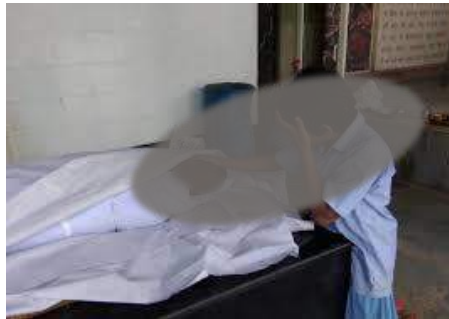
Cherries Engineering and Innovation India Pvt. Ltd., Bengaluru



JALODBUST™

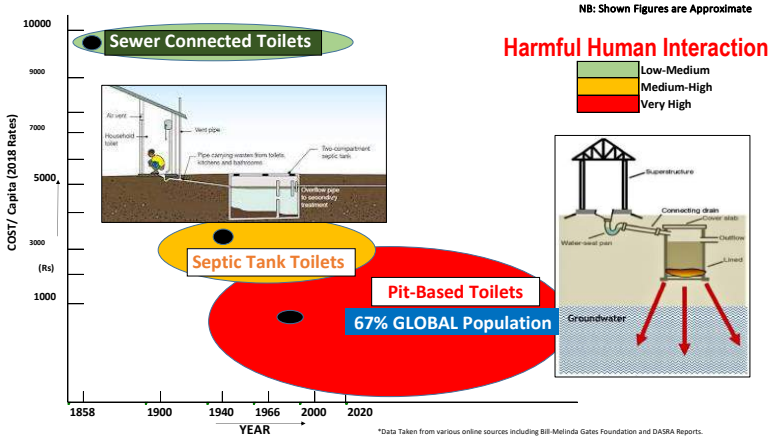
You made my Decision - 2018

Manual Scavenging, not only **damages** the society,
- it also **kills** !



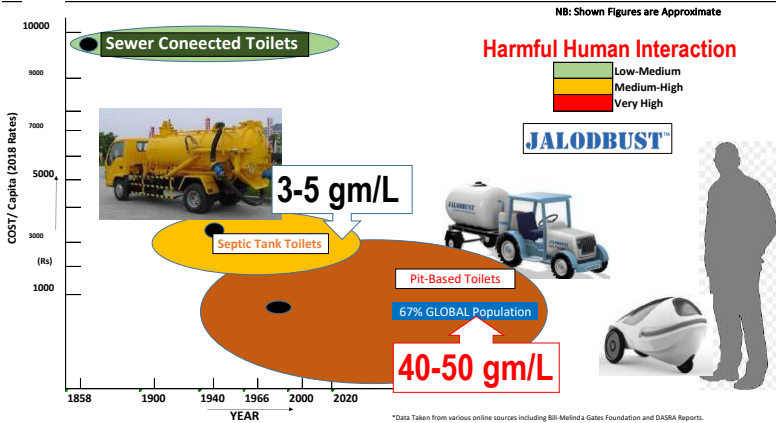
JALODBUST™

Common Toilets Technology



JALODBUST™

JALODBUST™ - 1st System for 'Toilet-Pit Sludge' handling



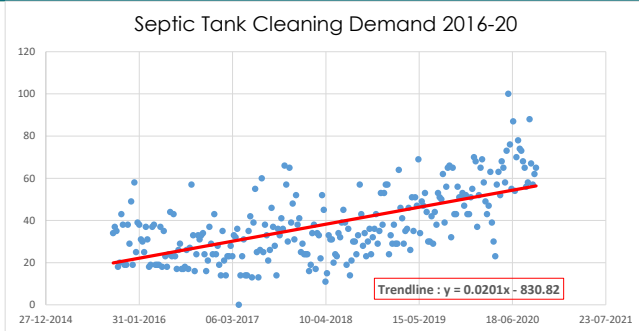
JALODBUST™

JALODBUST™ - Arrived Just in Time

10 Crore on-site sanitation toilets built in last 6 years need emptying, demand rising critically

~3 fold rise in Septic tank cleaning demand in 5 years

Google trends in Indian market show search for 'SEPTIC TANK CLEANING'



JALODBUST™

JALODBUST™ Sanitation Service while preserving human values

- Creating Livelihoods in sanitation with safety, dignity and earnings

the SIGHT, SMELL and SPLASH free
Fecal Sludge Handling For
Eradicating Manual Scavenging



Patent Applied (after Indian and International Search)

Application No. : 201841041735, Date: 05/Nov/2018

Entered in WIPO Gazette in July 2020

CONFORMING and STANDARDIZED

SUPPORTS SDG-6.2 and benefits SDG-8, SDG-10 and SDG-3

CONFORMS to Indian Manual Scavenging Act 2013*

STANDARDIZED to IS:302 Part-I, Class-III Appliance for Safety

CONFORMS to Govt. of India ODF++ Program (2019-2029)

JALODBUST™

The TEAM - with Experience, Commitment and Vigour



RAKESH KASBA
(Co-Founder)

PRODUCT & STRATEGY

Rakesh holds BE in Civil with 28+ years in Sediment, Sludge and Mud handling and Study in Hydro Power Construction and River Engineering. He has worked for 21 years in Govt., 8 years in Industry and 3+ years as a Hardware-led Social Entrepreneur.

He has applied for 5 patents so far



ERIKA KASBA
(Co-Founder)

HR & COMPANY AFFAIRS

Erika is an Advocate with BA:LLB(Hons.) from Christ's. She has a keen inclination towards Human values. She works part-time as she has joined XLRI-J in PGD-HR in year 2020.



RANJAN KAR

OUTREACH & BD

Ranjan is M.Tech in Electronics with MBA (HR). With 20 years in Govt. and 9 years in Pvt. Sector, he holds extensive experience in Business Development and CSR.

He leads an NGO and is likely to join as we progress into Complex Business deals and PR



PARTH
(Marketing Intern)

A final year Student of BBA, he has meritorious exposure in marketing as an intern with some prominent start-ups. He was awarded certificate of merit as an All India best Marketing Intern by founder Mr Kanak Shah. Parth is a public speaker with triple diamond in Toast Masters International.

He is likely to join on completion of his BBA.

SUPPORT ORGANISATIONS



SUMA SURESH
DIRECTOR GENERAL,
Program Manager

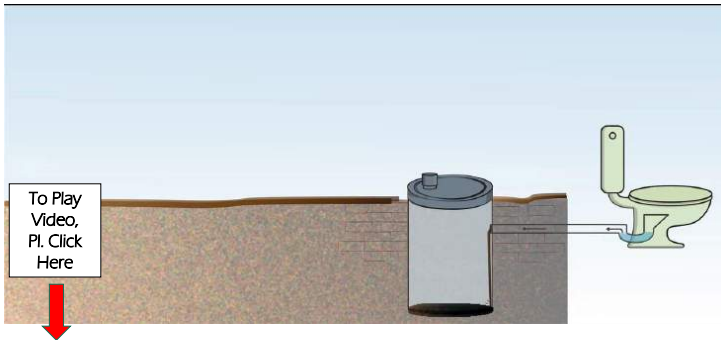


Dayananda Sagar
University

JALODBUST™

JALODBUST™ Removing Fecal sludge not only liquid septage

- Pit emptying going Critical, after building 10 Crore toilets in last 6 years



To Play
Video,
Pl. Click
Here

JALODBUST™

JALODBUST™ - The Laboratory/ Field Evidence



JALODBUST™

PRODUCT/SOLUTION READINESS LEVEL (Piloting and feedback)



JALODBUST™

Trials of SaniPreneur Livelihood Model



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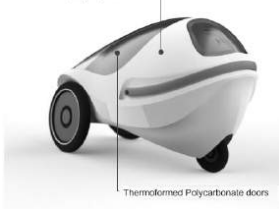
Novelty offered by JALODBUST™

JALODBUST™ for
Safe, Dignified and True Mechanization

ASME | ISHOW
Material/Color Variations



Rotomolded polyethylene



Existing Portable Mechanized Systems



JALODBUST™

One-Man Machine* with Man-isolation to end 'Manual Scavenging'

JALOBUST™ for
Safe, Dignified and True Mechanization



- * 'No tap at back' tanker design for Complete Mechanized Faecal Sludge Loading-Unloading.
- Based on JALOBUST™ patent (pending) technology

Mechanized Systems at Present



JALOBUST™

GLOBAL RECOGNITIONS



Winner ASMEISHOW 2020
American Society for Mechanical Engineers,
NY, USA

**SOCIAL
alpha**

1-Year E-I-R Fellowship,
FISE, Bengaluru, INCAA



Winner Global C-I-2019
HelloScience co, Denmark
By Stockholm, Sweden, China, etc



Entered in SPS&C Equipment Book 2019,
Noida, UP, IN, COEPI



Best in Category Award,
Efficiency in Work for Millions of Indian Workers,
ISC, IFCI, Sanitation Awards 2020, New Delhi

CATAPULT DESIGN

Catapult Design, USA,
In kind Design Sponsorship



WINNER Top-3 WildCard MISFITS &
WINNER Top-30 South Asia MISFITS



Top-30 by EarthTech 2020

k-tech

Karnataka Innovation & Technology Society
Government of Karnataka

WINNER Smart-Bio-2020 AWARD

GLOBAL MEDIA ACCOLADES



TimesNext features JALOBUST



tells us about JALOBUST



Year-end NewsLetter speaks
of JALOBUST in Detail

JALOBUST invited for inclusion in International database of Indian WASH Innovations and likely promotion by UNDP*

JALOBUST™

OUR GLOBAL PARTNERS

Prof. Amitabha Bandopadhyay, PhD; IITK, has kindly consented to incubate Mr Rakesh Kasba, founder and innovator of JALODBUST™ system at bio-Incubator of SIIC, IITK subject to signing of MoU and other conditions.

American Society of Mechanical Engineers, USA – Engineering Mentors & Promoters

HelloScience.io, Denmark – Collaborative Incubation and Global Promotion

TogetherInAction.org, Australia – Fund raising collaboration and Promoter

CatapultDesign, USA – JALODBUST™ Pride Design support

AIC-DSU Innovation Foundation, Bengaluru – Technical Business Incubation

Dayanand Sagar University, Bengaluru – MOU underway for R&D Collaboration

SwachaEcoSolutions.com, Bengaluru, India – MOU underway for Field implementation

SOCIAL ALPHA, Bengaluru, India – Business Mentoring, seed Support and Regd. Office



Market Landscape and Revenue Sources

2.0 MILLION MANUAL SCAVENGERS

1.0 BILLION LEACH PITS/ SEPTIC TANKS

5.0 \$ BILLION/ YEAR SERVICE

JALODBUST SOLUTION:

MECHANIZATION: LIBERATE THE SANITATION WORKER

LIVELIHOOD: DECENTRALIZED SANI ENTERPRISE

CIRCULAR ECONOMY: 5 LAKH TONS OF SOIL NUTRIENTS/ YEAR

SANITATION ENTREPRENEUR: CREATING LIVELIHOODS

INSTITUTIONAL BUYERS: MUNICIPALITIES & RURAL SANITATION

GLOBAL SOCIETIES: DEVELOPING GEOGRAPHIES

REVENUE SOURCES

MANUFACTURE & LICENSING,
INSTITUTIONAL SALES & FRANCHISE
NEW DEVELOPMENT AND R&D

JALODBUST™

Value Proposition of JALODBUST™ Sani-Preneur

One-man owned & Operated Mechanized Sanitation System for
Decentralized Sanitation Entrepreneur Model

Monthly net Income* Rs 26,132 (Rs 34,465 with manure) for the Sanitation Entrepreneur
Based on 10 Yrs @ 4% p.a Financing availability (NSKFDC, GoI Sanitation Equipment Financing Model)

JALODBUST Sani-Preneur (With Diesel/ Electric mobility)

Based on Community/ Village of 2000 families:

Emptying Leach pit once every 2 years (Average).

Cost per person/ month = Rs 5.00 (Family of 5 persons, emptying once in 2 years)

Financing Model of SaniPreneur

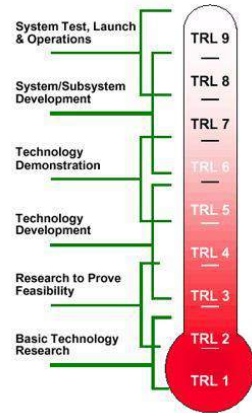
Net cost of JALODBUST Sani-Preneur	= Rs 9.50 Lakhs (Incl. Taxes)
EMI on loan	= Rs 9,618 (https://emicalculator.net)
Monthly Maintenance, Fuel etc. 1.5 % of Cost	= Rs 14,250 (1500 Kms/ month)
Monthly Revenue from Sanitation	= Rs 50,000 (1000 cleanings/ year @600 each)*
Monthly Revenue from Manure/ Sludge sale	= Rs 8,333 (1000 cleanings/ year @100 each)*
Net Monthly Income by SaniPreneur	= Rs 26,132 (Rs 34,465 after sale of Manure/ Sludge)



JALODBUST™

Technology Readiness Level of JALODBUST™

Sr.	Technology Maturity	Yes/ No
1.	Understanding of the Basic Technology	YES
2.	Study of Available Solutions	YES
3.	New Innovation/ Novelty	YES
4.	Laboratory Testing	YES
5.	Proof Of Concept Machine	YES
6.	Field Trials with Feedback from end user	YES
7.	Improvement by feedback	YES
8.	Technology ready for MVP (Min. Viable Product)	YES
	HENCE , TRL (Present)	8



JALODBUST™

www.jalodbust.com

info@jalodbust.com

THANK YOU!

JALODBUST™ technology for Sight, Smell and Splash free 'Flush to Farm' Mechanization

Rakesh Kasba, Founder (9480094320)

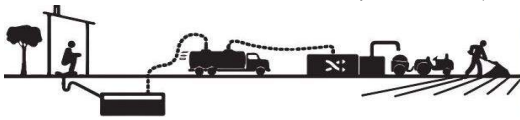
[:rakesh@jalodbust.com](mailto:rakesh@jalodbust.com)

Erika, Co-founder

[:erika@jalodbust.com](mailto:erika@jalodbust.com)

Ranjan Kar, Co-Founder (9515112024)

[:ranjan@jalodbust.com](mailto:ranjan@jalodbust.com)



JALODBUST™



Ministry of Housing and Urban Affairs
Government of India



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DEATHS BY MANUAL SCAVENGING ACROSS INDIA

39 Deaths In 100 Days: How Manual Scavenging Continues To Exist In India Despite It Being Illegal

The Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2003 prohibits manual scavenging, but it continues to exist due to sparsity of government workers and proper implementation of the law.



One manual scavenging death every five days: Official data

Data obtained by The Indian Express shows that only 109 of the 170 districts have filed their response, and only 62 have identified at least one manual scavenger.



Photo courtesy: '50 deaths since January 1, 2017' (Jia Pua)

Atleast **4.5 M** people are engaging in manual scavenging as their livelihood

(Source: Unofficial survey by Sulabh international social service organization)

Atleast **22,327** men die in India doing various kinds of sanitation work.

(Source: The Indian express)

Approximately **98%** men and women are diagnosed with fatal diseases.

(Source: Indian journal of occupational and environmental medicine)



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MANDATES

UNIVERSAL DECLARATION OF HUMAN RIGHTS:

Article 03 : Everyone has the right to life, liberty and the security of person

Article 27 : Everyone has the right to share in scientific advancement and its benefits

CONSTITUTION OF INDIA : FUNDAMENTAL RIGHTS

Article 21 : Right to Life with Dignity.

Directive Principles :

Article 42 : Make provision for just and humane conditions of work.

Article 46: Promote the welfare of weaker section of society

The Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2013



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EVOLUTION IN ACTS

THE EMPLOYMENT OF MANUAL SCAVENGERS AND CONSTRUCTION OF DRY LATRINES (PROHIBITION) ACT, 1993

- for conversion of dry latrines into water-seal latrines and
- prevention of construction of dry latrines were not stringent enough to eliminate this practice
- for abolishing manual scavenging
- Considered as an offence

NATIONAL COMMISSION FOR SAFAI KARMCHARIS ACT 1993

- An Act to constitute a National Commission for Safai Karmcharis

THE PROHIBITION OF EMPLOYMENT AS MANUAL SCAVENGERS AND THEIR REHABILITATION ACT, 2013

- To eliminate manual scavenging
- Mechanised cleaning
- Mandatory use of Safety gears and PPE while carrying out any hazardous activity
- Provisions for penalty
- Considered as an offence

Despite the legal Act in place and several directions from Hon. Supreme Court – inadequate implement the act on ground.

In this background - the “Safaimitra suraksha challenge” is initiated.



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SAFAIMITRA SURAKSHA CHALLENGE - INTRODUCTION

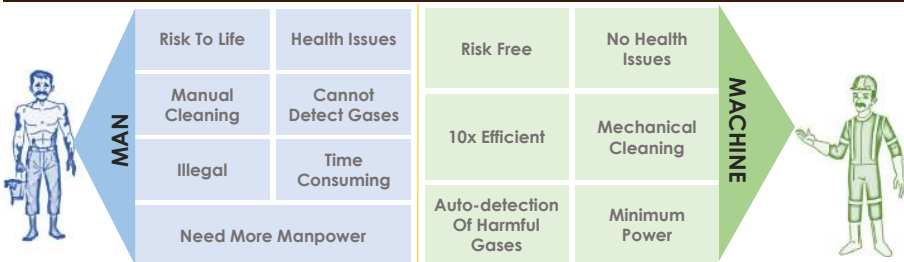
Launched on 19th November 2020

- **243 Cities across the country came together to take a pledge** to mechanize all sewer and septic tank cleaning operations by 30th April 2021.
- **No person needs to enter a sewer or septic tank**
- **Promotes mechanized cleaning**
- **Eradicate manual scavenging** through this challenge
- **No life of any sewer or septic tank cleaner is ever lost again**
- **Address the issue of 'hazardous' cleaning**



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MAN-HOLE TO MACHINE-HOLE



SAFAIMITRA SURAKSHA CHALLENGE MEETS 6 OUT OF 17 SUSTAINABLE DEVELOPMENT GOALS



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EXPECTED OUTCOMES

- **100 % Prohibition on Manual Scavenging** and Safaimitra involved in mechanized cleaning
- **Informal workers** involved in sanitation activities **are identified** and involved in the **formal process**.
- Team of **Safai Commandos**- Well **trained Safaimitra** involved in desludging activities
- **Distribution and mandatory use of PPE and safety gears** by all frontline workers involved in cleaning activities
- All **Safaimitra are empowered** and linked to the schemes
- **Reporting of an offence by the public** through established Toll free number call center



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Swachhata Udyami Yojana (SUY)

- NSKFD under its Swachhata Udyami Yojana (SUY) provides financial assistance for procurement and operation of sanitation related equipments/vehicles with a view to promote mechanised cleaning.
- The purpose of the SUY scheme is to prevent manual hazardous cleaning and to promote mechanised cleaning.
- Two broad implementation models of SUY are as under:

For Target Group



- Loans upto Rs. 50 Lakhs for mechanised cleaning equipments through channelizing agencies
- 4% rate of interest with upto 10 years repayment period
- 1% interest rebate for women and 0.5% for timely repayment

For Urban Local Bodies (ULBs)



- Direct loans to ULBs for mechanised cleaning equipments costing up to Rs. 50 Lakhs per unit
- 4% rate of interest with 1% rebate for timely repayment
- Repayment period of up to 10 years

- AILSG is empanelled for providing support to all the ULBs in the State of Bihar , Jharkhand, Telangana and Andhra Pradesh.



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Support of AILSG under SUY

This is the initiation step for the project.

AILSG would assist the Beneficiaries to understand the nuances of the Project

AILSG would assist the beneficiaries to receive Loan

ULB willing to provide assured work contract to the beneficiary from the target group and nominate some Safai Karamcharis for the said work

Nominating beneficiaries from the target group by the ULBs. Beneficiary will submit proposal for sanction and release of funds to Channel Agency (CA) of NSKFDC

Sanction and release of funds by NSKFDC based on proposal received from the CA

Regular payment of EMI by the Beneficiary/ULB to the CA and by CA to NSKFDC

Provision of regular mechanised cleaning work by the ULB to the beneficiary

Procurement of mechanised cleaning equipment by the Beneficiary with loan and subsidy under SUY Scheme of NSKFDC

Help the ULB and the Beneficiaries to achieve individual Goals.

This step is important for financial stability of the project

Handholding Support for Beneficiaries



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ACTIVITIES DONE UNDER SAFAIMITRA SURAKSHA CHALLENGE 'FOR DHULE MUNICIPAL CORPORATION'



Call center established
Helpline 14420 activated



Training for Safaimitra
conducted (11th & 12th Jan. 2021)



Procured bandicoot robot to
clean underground sewerage

Recently Dhule Municipal Corporation got **69th National level Skoch award** for the project
Project Name: **Eradication of Manual Scavenging using Robotic Scavenger Machine (Bandicoot)**
(A CSR initiative from BPCL)



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SAFAIMITRA TRAINING PROGRAM AT DMC



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ACTIVITIES DONE UNDER SAFAIMITRA SURAKSHA CHALLENGE 'FOR DHULE MUNICIPAL CORPORATION'



Installation of Banners
to create Citizen awareness on
this critical issue



Tender Published
for purchasing of PPE Kit and
Jetting Machine



Call center established
Helpline 14420 activated for
registration of complaint
and provide real-time
solutions



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ACTIVITIES DONE UNDER SAFAIMITRA SURAKSHA CHALLENGE 'FOR DHULE MUNICIPAL CORPORATION'



Messaging on Promotion of Safaimitra Suraksha Challenge



- Capacity Building Calendar for 1st Batch of 52 participants.
- Capacity Building Program of Desludging Operators.
- ULB level Training Program for Safaimitra



Activation of Toll Free No. and Establishment of SRU under process



- Certificates for recognition of Best performing worker of Safaimitra to adopt Mechanised Cleaning
- Safaimitra covered under different health insurance schemes.

Assessment of Workforce, Equipment & Infrastructure (as per CPHEEO norms) is ongoing



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ACTIVITIES PLANNED UNDER SAFAIMITRA SURAKSHA CHALLENGE 'FOR DHULE MUNICIPAL CORPORATION'



Housing loan Mela for Safaimitra



Heath checkup of all Safaimitra In the Municipal Corporation



Distribution of PPE kit to all Safaimitra

Apart from this, the Municipal Corporation is planning to procure new machineries to clean underground sewerage



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ACTIVITIES PLANNED UNDER SAFAIMITRA SURAKSHA CHALLENGE 'FOR AMHEDNAGAR MUNICIPAL CORPORATION'



Housing loan Mela for Safaimitra



Health checkup of all Safaimitra In the Municipal Corporation



Distribution of PPE kit to all Safaimitra



Training for Safaimitra to be conducted



Citizen Awareness on this critical issue

Apart from this, the Municipal Corporation is planning to procure new machineries to clean underground sewerage



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ACTIVITIES PLANNED UNDER SAFAIMITRA SURAKSHA CHALLENGE

ACTIVITIES PLANNED FOR CHANDRAPUR MUNICIPAL CORPORATION

CITIZEN'S EMPOWERMENT THROUGH:

- 24x7 Helpline Number
- Conduct Public Awareness Campaigns during the period

PROMOTE MECHANIZED CLEANING:

- Ensure availability and help procure Mechanized Cleaning Vehicles and Equipment
- Requisite Resources along with PPE kit and Safety Gears

SOFT MEASURES FOR MECHANIZED CLEANING:

- Capacity Building of Delsudging Operators (in-house)
- Continuous Empowerment of Safaimitra

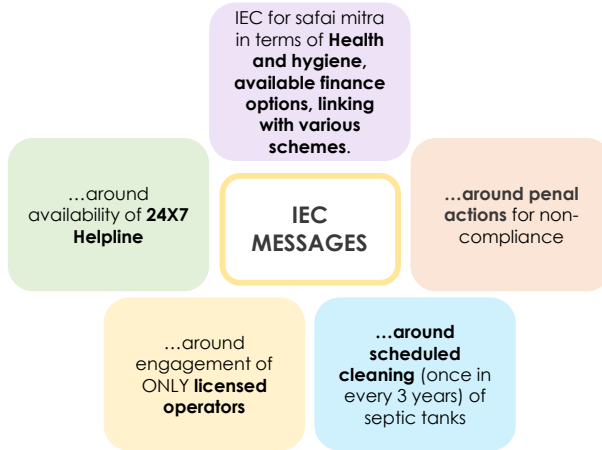
ECO-SYSTEM ENABLERS:

- Continue the periodic maintenance of Septic Tanks
- Inspection of the Standardize Septic Tanks and its mapping



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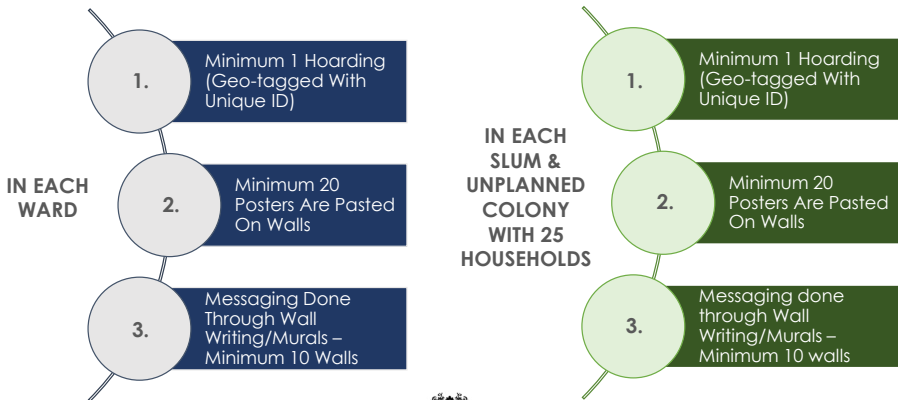
ACTIVITIES PLANNED FOR IEC MESSAGES FOR CITIZENS, EMPLOYEES



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ACTIVITIES PLANNED FOR PUBLIC AWARENESS FOR CITIZENS, EMPLOYEES

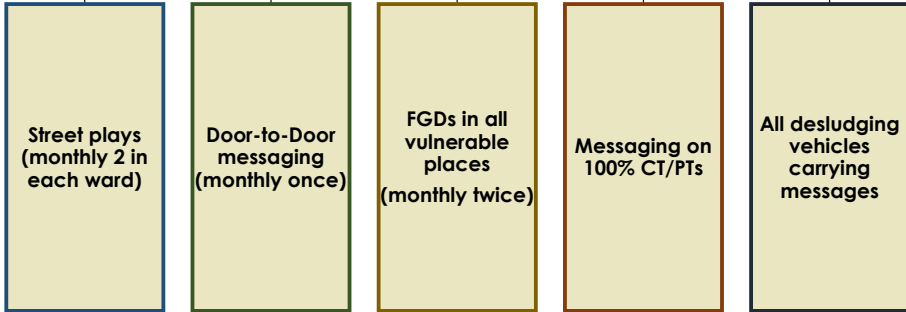
Public Awareness activities through Hoarding, Posters, Wall Writing/Murals about importance of following correct legal practices for cleanings



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ACTIVITIES PLANNED FOR PUBLIC AWARENESS FOR CITIZENS, EMPLOYEES

Public Awareness campaign, in all wards about importance of following correct legal practices for cleaning



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ACTIVITIES PLANNED FOR CAPACITY BUILDING OF SAFAIMITRAS

Capacity Building

Training Of Safaimitras

A. on safety measures and legal norms to be followed,

B. mechanized cleaning

EMPOWERMENT THROUGH REHABILITATION

Minimum **20%** of informal Safaimitras are integrated with private de-sludging operators

100% informal Safaimitras, linked with at least 3 social welfare schemes and given ration cards

Linking with **Entrepreneurship Opportunities** through convergence / soft loans / NSKFDG or any other scheme

100% children of Safaimitras to be enrolled in schools



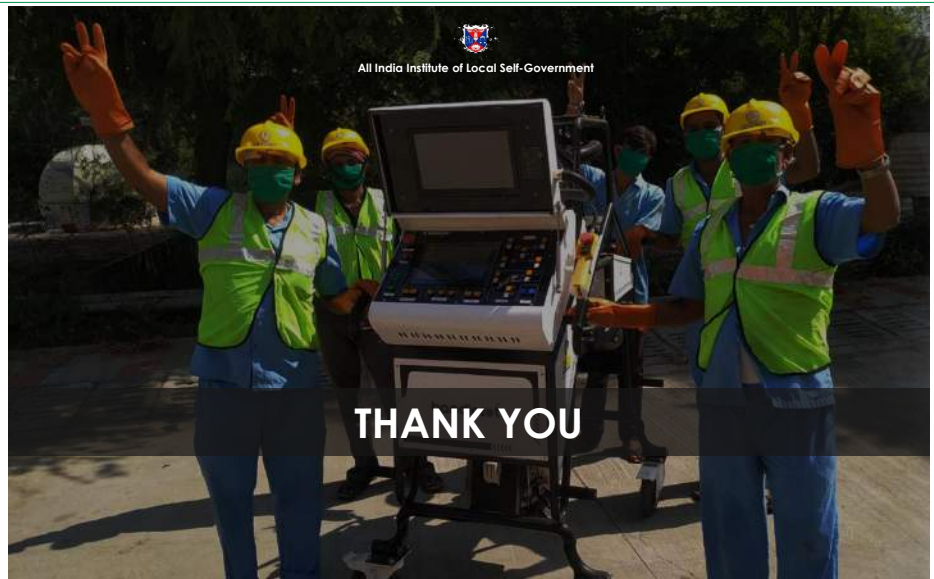
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LEARNINGS AND WAY FORWARD FOR AIILSG TEAM

- Safai Karmachari as well as citizens are aware about the importance of this critical issue
- This challenge is bringing a change in life of Safaimittra and their families through
 - ✓ Compulsory Use of PPE
 - ✓ Regular health Checkup
 - ✓ Making finance available for education, home etc.
- Considered as caste oriented work in India, this challenge will definitely change the scenario
- The new terminology for 'Man-hole' is 'Machine-hole'
- More emphasis needs to be given on the Public Awareness
- Availability of the Infrastructure and equipment, Capacity building are the key challenges.



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National Institute of Urban Affairs

National Institute of Urban Affairs

1st Floor, Core 4B, India Habitat Centre, Lodhi Road, New Delhi - 110003

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E-mail: niua@niua.org • Website: www.niua.org