Review Meeting 7th July 2020

CSE partnership with DoUD GoUP in supporting Effective Faecal Sludge and Septage Management for citywide sanitation

A summary of previous year activities, present status and plan for coming year

May 2020- April 2021
Programme Objective:

Strengthen capacities of UP state and city officials to implement city wide effective **Fecal Sludge and Septage Management (FSSM)** through **State Level Programme Support Unit** and **City Level Technical Support Unit (2 – Deep-dive Cities)**

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**MEMORANDUM OF UNDERSTANDING (MoU)**

**BETWEEN**

**DEPARTMENT OF URBAN DEVELOPMENT**
**GOVERNMENT OF UTTAR PRADESH**
**LUCKNOW, INDIA**

**AND**

**CENTRE FOR SCIENCE AND ENVIRONMENT**
**NEW DELHI, INDIA**

**ON**

**“SUPPORT FOR EFFECTIVE SEPTAGE MANAGEMENT IN UTTAR PRADESH”**

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**ARTICLE 10: COMMUNICATION AND REPORTING:**

All correspondence in connection with this MoU must be addressed to the following:

- **Principal Secretary**
  Department of Urban Development,
  Government of Uttar Pradesh
  75 First, Rapid Transit, Lucknow - 226006

- **Director General**
  Centre for Science and Environment
  41, Hellyer Moth Industrial Area
  New Delhi - 110001

IN WITNESS WHEREOF, the foregoing represents the understanding reached between the Parties on the matter as referred to in this MoU and does not create any legally binding obligations upon the Parties, and the duly authorized representatives of the Parties affix their signatures below:

Signed on this 3rd day of January, 2018 for and on behalf of:

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**Department of Urban Development**
**Government of Uttar Pradesh**

---

**Centre for Science and Environment**

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CSE & DoUD – MoU
Jan 2018
Dr Suresh Rohilla
Senior Director

City – level Technical Support

Bhitush
Programme Manager

Bijnor

Chunar

Ekta
Programme Officer

Harsh
Research Associate

Manish
Research Associate

Vandana
Research Associate

Bhitush

School of Water and Waste

Mahreen
Programme Manager

Shivali
Programme Manager

Sumita
Deputy Programme Manager

Dhruv
Sr Research Associate

Jyoti
Research Associate

Shivani
Research Associate

CSE FSM Laboratory

Vinod
Sr. Scientist

Arvind
Sr. Scientist

Sama
Research Scientist

Vinay
Research Scientist

Mrinal
Lab head

14 member dedicated team; State & City support

State – level Programme Support

Lucknow

Rahul
Programme Manager

Naveen
Deputy Prog. Manager

Nida
Programme Officer

Sarim
Research Associate
Snapshot of CSE in Uttar Pradesh...

(Sept 2016 - Apr 2018): Capacity Building of State and Non-State Actors in Ganga Basin for City Sanitation Planning

- 4 selected towns/cities in UP
- 25 capacity building activities
- 965 Days of work time

(Jan 2018 - Apr 2020): Partnership with DoUD (U.P.) in Effective Faecal Sludge and Septage Management for Citywide Sanitation

- State Support: PSU Office in Lucknow
- Deep-dive City-level Support in Chunar and Bijnor
- Capacity building – Trainings, Workshop & Exposure Visits
- Assessment of Excreta Management in 66 Cities in U. P.
- 7200 Days of work time
Key activities in support of FSSM for Citywide Sanitation in Uttar Pradesh
Overview of Capacity Building Activities in Uttar Pradesh
(Trainings and Exposure Visits over the past 5 years)

7 Trainings

6 Exposure visits

- CSP Training – Part 1
- CSP Training – Part 2
- CSP Training – Part 3
- Sanitation Safety Planning
- Technical Training on planning and designing DWWTs/FSTP
- Lab Training I
- Lab Training II

- National Exposure Visit
  Pondicherry, Chennai and Bangalore

- International Exposure visit to Malaysia

- International Exposure visit to Philippines
- National Exposure Visits to Odisha FSTPs
- International Exposure Visits to Bangladesh
- International Exposure visits as part of ‘Multi Country Twinning Programme’

More than 300 participants from U.P.

Participation from Uttar Pradesh (Sept 2016-Apr 2018)

State 57%

- Agra 4%
- Ramnagar 7%
- Chunar 7%
- Gangaghat 7%
- Bijnor 7%
- RCUES 11%
- Executive Officer 11%
- Junior Engineer 11%
- Environmental Engineer 3%
- Municipal officers 7%
- State 57%

Diversity of Participation from Uttar Pradesh (Sept 2016-Apr 2018)

60+ participants from U.P. Jal Nigam
To understand the gaps in sanitation across Ganga basin, Shit Flow Diagram for 66 major cities in the state of Uttar Pradesh are developed.

These SFDs are used to develop the state level SFD and basin level SFD.
State Workshop FSSM in Lucknow Oct’18

Key Note Speakers
- Shri Manoj Kumar Singh, PS, DoUD
- Ms Sunita Narain, DG, CSE
- Shri G S Priyadarshi, SMD, AMRUT
- Ms Madhu Krishna, Country Lead, BMGF

Guest Speakers / Resource Persons
- CEO WaterAid India, Rep. WaterAid Bangladesh, IWMI Sri Lanka, Technology Providers in FSSM,
- Remote session: IWK, Malaysia, BWD, Philippines, Rep. ASCI – supporting A.P.

Launch of Reports & Tools

MANAGING SEPTAGE IN CITIES OF UTTAR PRADESH
An analysis of the pollution due to 50 cities, through SFB

SANi-KiT
PREPARING A CITY SANITATION PLAN
Snapshot of Uttar Pradesh FSSM Progress 2019-20

• Operationalized FSTP in Jhansi and Unnao (October 2019)
• FSTP implementation Status
  • Under Construction
    • AMRUT: 4 cities (Lakhimpur, Raebareli, Loni, Modinagar)
    • Namami Gange: 1 city (Chunar) – CSE Knowledge Partner
  • Contractor selected for FSTPs: 31 (Cities)
  • Contractor selected for Co-Treatment: 4 (Cities)
  • Tenders under evaluation of Co-Treatment: 17 (Cities)

• Septage Management policy operationalized in Oct 2019.
• Several city have started registration and licensing of De-sludgers for decanting faecal sludge at Sewage Pumping Station / Sewage Treatment Plant.
• City level FSSM Bye-laws approved in Bijnor, Chunar, Jhansi.
• CSE city-level FSSM guidelines approved by Chunar City Council.
State-Level Programme Support in Uttar Pradesh: Planned Vs Achieved

2019-20
# STATE LEVEL SUPPORT: Planned Vs Achieved

<table>
<thead>
<tr>
<th>Planned (March’19)</th>
<th>Status (July’20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endorsement of <strong>State FSSM Policy</strong> with a focus on complete value chain</td>
<td>• Septage Management policy issued on Oct’19</td>
</tr>
<tr>
<td>State level trainings, workshop and exposure visit for effective FSSM</td>
<td>1 - State Trainings (July’19), 1 - National Exposure Visit to Odisha (July’19) and 1 – International Training cum Exposure Visit to Bangladesh (Feb’19) 3 – training under AMRUT capacity building initiative Orientations to ~60 municipal functionaries through Directorate of Local Bodies.</td>
</tr>
<tr>
<td>Report for Co-Treatment of FS in STP (Bharwara STP Lucknow)</td>
<td>Report of Co-Treatment of FSS in STP presented to PS DoUD in Aug 2020. <strong>Co-Treatment tendered in 21 cities</strong> and CSE Lab testing initiated at STP in Bharwara, Lucknow to assess impact of FS on STP.</td>
</tr>
</tbody>
</table>
Supporting UPJN in FSTP implementation

• **Consultation with Private Sector** for participation in FSTP tenders.

• **Inputs to the tender documents** for increasing participation.

• **Support in lab testing of operationalized FSTPs** including FSTP in Unnao, Jhansi and Co-Treatment of FS in STP in Bharwara (Lucknow) – (as per of Lab Study evaluating FSTP performance across India)

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**FS TP in Loni under construction**

**FS Co-Treatment at STP in Modinagar under construction**

**CSE lab testing at Unnao FSTP; operationalized since Oct 2019 (1st through AMRUT)**
Report for Mainstreaming Co-Treatment of Faecal Sludge in STPs in Uttar Pradesh

- Presentation to PS DoUD for ‘Mainstreaming of Co-Treatment of FSS in STPs’
- The report recommended different pre-treatment modules (Solid-Liquid separation) for faecal sludge before being discharged in STP.
- Decision taken to implement Co-Treatment with Solid-Liquid separation STPs including Bharwara STP Lucknow.
Feasibility study for Pilot: FSTP (Western Prayagraj – Peri Urban Areas)

- Field visits to targeted areas

FSTP Site Identification in progress

PILOT 6 KLD FSTP Proposal submitted to District Magistrate

- Funding through BMGF
- 5 Potential land parcels identified in coordination with Revenue Department.
- Land finalization in progress before COVID-19 lockdown
‘Alliance for Urban Transformation’:
A Platform of Collaboration and Convergence at Department of Urban Development (U.P.)

• Inaugural Meeting held on **13th Feb 2020**, PS DoUD, SMD AMRUT and Director, Directorate of Local Bodies with 15 Development Partners.

• 2nd Meeting held virtually with Agenda for collaborative support for COVID-19 response.
Radio sessions with Radio Mirchi: Awareness generation FSSM in urban U.P.

Theme of the talk: 'Toilet Ke Baad Kya'
 focusing on FSSM

Highlighting issues like:
- Impact on Public health and River Pollution due to improper disposal of Faecal Sludge.
- What is a proper septic tanks and why we need to build properly designed septic tanks.
- CSE’s initiatives and support to cities for mainstreaming effective FSSM.

Deeper engagement for FSSM with ‘MalAsur’ or ‘Demon of Defeca’ proposed in coming period
Trainings and Exposure Visits
Training cum Exposure Visit to FSTPs in Odisha for FSSM July 2019

• The training target 20+ engineers from UP Jal Nigam involved in FSTP implementation.
• Field visit to Faecal Sludge Treatment Plants in Odisha.
• Master trainers with FSSM experience from Malaysia and Philippines.
**International Training cum Exposure Visits: FSSM in Bangladesh**

8-12 February 2020

‘Knowledge sharing between participants from Bangladesh, Nepal and India’

### U.P. participants supported by CSE

<table>
<thead>
<tr>
<th></th>
<th>Name and Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shri Shiv Pujan Yadav Addl. Commissioner attached to Directorate of Local Bodies. U.P.</td>
</tr>
<tr>
<td>2</td>
<td>Shri Durgeswar Tripathi Executive Officer, Bijnor Nagar Nigam</td>
</tr>
<tr>
<td>3</td>
<td>Shri Anand Kumar Dubey Project Manager, GPCU, Prayagraj, U P Jal Nigam</td>
</tr>
<tr>
<td>4</td>
<td>Shri Afzal Khan Project Manager, GPCU, Mirzapur, U P Jal Nigam</td>
</tr>
<tr>
<td>5</td>
<td>Sudhansu Kumar Project Engineer, GPCU, Lucknow, U P Jal Nigam</td>
</tr>
<tr>
<td>6</td>
<td>Shri Mohit Vikram Singh Assistant Engineer, Bijnor, U P Jal Nigam</td>
</tr>
</tbody>
</table>

### NMCG Officials supported by CSE

<table>
<thead>
<tr>
<th></th>
<th>Name and Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shri Saumyasib Mukhopadhyay Senior Environmental Specialist, NMCG</td>
</tr>
<tr>
<td>2</td>
<td>Shri Vijay Kumar Yadav Assistant Civil Engineer, NMCG</td>
</tr>
</tbody>
</table>
Training under AMRUT capacity building initiative

• Trainings (Capsule I, II and III) held Sept’19, Jan’20 and Feb’20
• 20 participants attended each of the three capsules
Orientation of Municipal Functionaries on FSSM through Local Bodies Directorate

• 5 session - **60 + municipal functionaries**.

• ‘**Knowledge Resource Centre**’ at Directorate Local Bodies, Gomti Nagar Office. With **guidelines and IEC material for Municipal Functionaries**.
City-Level Programme Support in Bijnor & Chunar

Planned Vs Achieved
2019-20
**CITY LEVEL SUPPORT (Focus City (1) - Bijnor): Planned Vs Achieved**

<table>
<thead>
<tr>
<th>Planned (April’19)</th>
<th>Status (June’20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training on <strong>designing of containment systems</strong> for masons/plumbers</td>
<td>Training conducted from 16th Jan to 18th 2020, <strong>model septic tank and twin pit constructed</strong> by the trained masons.</td>
</tr>
<tr>
<td>City to develop <strong>FSSM bye-laws and enforcement mechanisms for containment systems</strong></td>
<td><strong>City FSSM Bye-laws</strong> is approved by the board, will get notified in next meeting. Notification got delayed due to Covid-19 Pandemic</td>
</tr>
<tr>
<td><strong>Capacitate truck operators or de sludgers</strong> to ensure that they decant the collected sludge in designated treatment sites</td>
<td>City-level <strong>training conducted to capacitate private emptiers</strong> plying in the city from 14-15 October 2019</td>
</tr>
<tr>
<td>Provide technical support in setting up <strong>Model Fecal Sludge Treatment Plant (FSTP)</strong></td>
<td><strong>Feasibility study for Co-Treatment done</strong>, draft DPR ready. Land for co-composting procured.</td>
</tr>
<tr>
<td>Conduct <strong>City Sanitation Task Force (CSTF) meeting</strong> on a rolling basis to ensure the ongoing effectiveness and efficiency in the project’s implementation</td>
<td>Conducted virtual <strong>CSTF Meeting</strong> on 26th May’20. More meetings planned for the coming year.</td>
</tr>
<tr>
<td>Training of sanitary workers, provision of PPE, Covid awareness week- painting competition, slogan writing competition, social media campaign, wall paintings in low income settlements</td>
<td></td>
</tr>
</tbody>
</table>
### CITY LEVEL SUPPORT (Focus City (2)- Chunar): Planned Vs Achieved

<table>
<thead>
<tr>
<th>Planned (April’19)</th>
<th>Status (June’20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set up technical support unit</td>
<td>CSE representative stationed at Chunar closely supporting nagar palika parishad</td>
</tr>
<tr>
<td>Provide technical support in implementation of faecal sludge treatment plant</td>
<td><strong>FSTP under construction</strong>, project running behind schedule due to hindrances caused by the pandemic.</td>
</tr>
<tr>
<td>Training on designing of containment systems for masons/plumbers</td>
<td>Training conducted from 21\textsuperscript{st} Jan to 23\textsuperscript{rd} Jan 2020, <strong>model septic tank and twin pit constructed by the trained masons.</strong></td>
</tr>
<tr>
<td>Technical Support for Trenching for temporary Faecal Sludge disposal</td>
<td>Temporary <strong>trenching site is up and running</strong> and will cater to disposal of faecal sludge till the time FSTP is up and running</td>
</tr>
<tr>
<td><strong>Capacitate truck operators or de sludgers</strong> to ensure that they decant the collected sludge in designated treatment sites</td>
<td>City-level <strong>training conducted to capacitate private emptiers</strong> plying in the city from 14-15 October 2019</td>
</tr>
<tr>
<td>Conduct <strong>City Sanitation Task Force (CSTF) meeting</strong> on a rolling basis to ensure the ongoing effectiveness and efficiency in the project’s implementation</td>
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</tr>
<tr>
<td>Training of sanitary workers, provision of PPE, Covid awareness week- painting competition, slogan writing competition, social media campaign, wall paintings in low income settlements</td>
<td></td>
</tr>
</tbody>
</table>
Faecal Sludge Treatment Plant in Chunar
A pilot through NMCG with CSE as Knowledge Partner for the project

Capacity: **10 KLD**
Area: 3797 sqm. + 1742 sqm. (for plantation)
Capital Cost: **INR 195.9 Lakhs**
Funding: Namami Gange
Implementing Agency: UP Jal Nigam
Contractor Name: ELEFO Biotech Private Limited

Trenching for temporary FS disposal
Status of FSTP in Chunar

A pilot through NMCG with CSE as Knowledge Partner for the project

• Tentative completion date: Oct’20
• ~30% work completed

Physical progress of FSTP in Chunar

<table>
<thead>
<tr>
<th>SI</th>
<th>Work Description</th>
<th>Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Technical modules</td>
<td></td>
</tr>
<tr>
<td>1.01</td>
<td>Screening chamber</td>
<td></td>
</tr>
<tr>
<td>1.02</td>
<td>Planted drying bed</td>
<td></td>
</tr>
<tr>
<td>1.03</td>
<td>Integrated settler &amp; anaerobic filter</td>
<td></td>
</tr>
<tr>
<td>1.04</td>
<td>Planted gravel filter</td>
<td></td>
</tr>
<tr>
<td>1.05</td>
<td>Integrated Collection Tank, Dual Media Filter, Activated Carbon Filter, UV Disinfection Unit</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Other civil, electrical and mechanical works</td>
<td></td>
</tr>
<tr>
<td>2.01</td>
<td>Site preparation</td>
<td>50%</td>
</tr>
<tr>
<td>2.02</td>
<td>Storm water drain</td>
<td></td>
</tr>
<tr>
<td>2.03</td>
<td>Operator room</td>
<td></td>
</tr>
<tr>
<td>2.04</td>
<td>Toilets</td>
<td>70%</td>
</tr>
<tr>
<td>2.05</td>
<td>Office room</td>
<td>70%</td>
</tr>
<tr>
<td>2.06</td>
<td>Sludge storage yard</td>
<td></td>
</tr>
<tr>
<td>2.07</td>
<td>Flexible pavement</td>
<td></td>
</tr>
<tr>
<td>2.08</td>
<td>Boundary wall</td>
<td>60%</td>
</tr>
<tr>
<td>2.09</td>
<td>Cutting &amp; stone pitching work</td>
<td></td>
</tr>
<tr>
<td>2.10</td>
<td>Retaining wall</td>
<td></td>
</tr>
<tr>
<td>2.11</td>
<td>Registers</td>
<td></td>
</tr>
<tr>
<td>2.12</td>
<td>Culvert</td>
<td></td>
</tr>
<tr>
<td>2.13</td>
<td>Additional works</td>
<td></td>
</tr>
<tr>
<td>2.14</td>
<td>Tools list</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Additional expenses</td>
<td></td>
</tr>
<tr>
<td>3.01</td>
<td>Access road connecting site to the existing main road</td>
<td></td>
</tr>
<tr>
<td>3.02</td>
<td>Plantation site showcasing reuse of by-products</td>
<td></td>
</tr>
</tbody>
</table>
Regular City Sanitation Task Force Meetings

Based on the process training conducted by CSE, a CSTF was constituted in Bijnor and Chunar to develop and implement a city sanitation plan/city FSSM guidelines through stakeholder approach. The CSTF actively meets and take informed decisions with respect to sanitation in the cities.
Research & Technical Feasibility Support : 2019- 2020
Support for health and safety of workers during COVID-19
Supporting COVID-19 response in Uttar Pradesh

Key Activities
COVID-19 support in Bijnor & Chunar

Phase-1: support to Bijnor and Chunar
Protection of Sanitation Warriors during COVID:
• 300 sets of personal protective gear
• 2 Thermal Scanner
• IEC campaign relating to good practices during COVID-19 with messaging in Hindi and Urdu.

In phase-2:
Support 5 cities - PPE, thermal scanners as well as ‘Foot Operated Hand-Wash Stations
Pocket Book for Sanitation Workers
A guide to Sanitary Inspectors in cities to ensure Health and Safety of Sanitation Workers during COVID-19
5000 copies under print as CSE PSU - Local Bodies Directorate initiative
Training of Sanitation Workers COVID-19

2 no. State Level Training for Sanitary Inspectors (~30 SIs trained through virtual trainings)
- Lucknow, Bijnor and Chunar
- Prayagraj, Jhansi, Agra, Unnao, Gangaghat and Lakhimpur

Support for field level orientation of Sanitation Workers:
- 4 session in Bijnor, 6 in Chunar and 5 in Lucknow
Covid Awareness Drive
in Bijnor, Chunar and Lucknow

Launch of campaign

Over 2500 kids participated in Painting and Slogan writing competition

Wall paintings in low income settlements

Awareness generation around COVID-19 among women by CSTF members

Audio recording played every morning through mobile vans
Multilingual IEC collaterals for supporting COVID-19 response
Repository of COVID-19: Online Resources

• Advisories and Guidelines Issued
• Best Management Practices during COVID-19
• Communication Collaterals
• COVID-19 Blogs

Mal-Asur: ‘Demon of Defeca’ campaign

Creating awareness regarding need for proper Faecal Sludge and Septage Management

Launched by MoHUA on 4th June 2020 and by NMCG on 19th June 2020

Odisha and Telangana has already started this campaign

Pilot proposed in Chunar (U.P.) – NMCG priority town

Campaign suitable for towns with FS disposal sites available: Unnao, Kanpur, Lucknow, Prayagraj, Jhansi etc
Outreach & Media Coverage
on
Citywide Sanitation through various communication collateral
CSE OUTREACH ACTIVITIES ON FSSM / CITYWIDE SANITATION

<table>
<thead>
<tr>
<th>Type of Content</th>
<th>Number Completed</th>
<th>Views</th>
</tr>
</thead>
<tbody>
<tr>
<td>Films/Videos</td>
<td>11</td>
<td>18000</td>
</tr>
<tr>
<td>DTE Articles</td>
<td>4</td>
<td>80500</td>
</tr>
<tr>
<td>Articles in Annual Publications</td>
<td>2</td>
<td>10000</td>
</tr>
<tr>
<td>Articles / interviews / blogs on DTE Web</td>
<td>70</td>
<td>100000</td>
</tr>
<tr>
<td>Web – based tools</td>
<td>2</td>
<td>1000</td>
</tr>
<tr>
<td>Media - briefing</td>
<td>1</td>
<td>Sensitization of 25 hindi speaking journalists</td>
</tr>
<tr>
<td>Total</td>
<td>90</td>
<td>90</td>
</tr>
</tbody>
</table>

>2 Lakh Views

FSM in Delhi – A case study (8.3K Views)

Can faecal sludge be used as an organic soil conditioner (1.1K Views)

Faecal Sludge Management in Jhansi (7.2K Views)

How to prepare a Shit Flow Diagram (1.2K Views)

Centre for Science and Environment's capacity building initiative in the Ganga Basin (166 Views)

How Neela Hauz, south Delhi's biggest water body was restored using natural process (26.2K Views)
Around 50 articles/cartoon strips/interviews on Ganga uploaded on DTE web (>1 Lakh Views)
OUTREACH IN UP (PRINT & ELECTRONIC MEDIA)-(100 +)

In urban UP, 87% of waste from toilets goes to rivers, farmlands.
Factsheets and analysis of Sanitation chain in 30 cities of Uttar Pradesh
150 Hard Copies
3000 Downloads

Practitioner’s Guide for FSSM (Eng. + Hindi)
1000 Hard Copies
1000 Downloads

Factsheets, reports, Guidelines prepared by CSE for FSSM
1500 Hard Copies
7500 Downloads

Factsheets and analysis of Sanitation chain in 66 cities of Uttar Pradesh
125 Hard Copies
1500 Downloads

Draft FSSM Guidelines of Uttar Pradesh (Eng. + Hindi)
150 Hard Copies
2000 Downloads
Action Plan 2020-21 for Uttar Pradesh:

State and City-Level Support for Effective FSSM for Citywide Sanitation
STATE LEVEL INTERVENTIONS : 2019-20

- State-Level Workshop to operationalize a ‘Forum of Cities that manage Excreta’ to track and evaluate ‘Front Runner Cities’ in Effective Citywide Sanitation.

- Support ‘Front Runner Cities’ (like Unnao, Lucknow, Prayagraj, Jhansi, Lakhimpur, Loni etc) in adopting effective FSSM and become a model for other cities.

- Pilot IEC campaign for effective FSSM using ‘Malasur - collaterals’

- State Level Trainings and Exposure Visit for mainstreaming best practices in FSSM.

- City-level FSSM guidelines / bye-laws developed for Chunar to be used as model for other cities to adopt.
CITY LEVEL INTERVENTIONS: 2019-20

Focus City (ONE) – Bijnor
(Focus on CSP Implementation)
• Licensing of Desludgers
• Technical support for the implementation of co-treatment/co-composting at STP of Bijnor
• On-going Support for implementation of city sanitation plan in Bijnor
• Tech support for pilot DWWTs.
• Training for Sanitation Workers.
• IEC campaign for COVID-19 awareness and effective FSSM

Focus City (two) – Chunar
(Focus on FSSM)
• Technical Support for GPS tracking of Emptying and Transportation of Faecal Sludge
• On-going support for implementation of city level FSSM guidelines including bye-laws.
• Technical support for implementation of FSTP.
• Training for Sanitation Workers.
• IEC campaign for COVID-19 awareness and effective FSSM
Research / Technical Support:

State Level Publications
1. Business Models and Best Practices for effective citywide FSSM
2. State Investment plan for scaling-up FSSM in U.P.

City Level
1. Planning and designing for Co-composting of FSS and MSW in Chunar / Bijnor
2. Business model for the implementation of short term CSP strategies for citywide sanitation solutions in Bijnor
2. Rapid City Sanitation Plan for Chunar
3. Standard operating procedure for FSTP in Chunar
Website / Page : CSE – DoUD PSU & TSU in Uttar Pradesh

Links to the page available from following pages:
NMCG: https://nmcg.nic.in/index.aspx
AMRUT – U.P.: http://www.amrutup.in/
SMCG – U.P.: http://smcg-up.org/
Directorate of Local Bodies: https://localbodies.up.nic.in/

https://www.cseindia.org/page/programme-support-for-fssm-in-uttar-pradesh
https://www.cseindia.org/page/technical-support-for-fssm-in-bijnor-uttar-pradesh
https://www.cseindia.org/page/technical-support-for-fssm-in-chunar-uttar-pradesh
State Support Needed for Citywide Sanitation

Funding Support/action plan for Cities

Administrative / coordination support in cities

Model documents for Cities in implementing FSSM

Effective FSSM & City-wide Sanitation
• THANK YOU