













### laws for Faecal Sludge and Septage Management in Towns of Uttar P

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Centre for Science and Environment,



# erview

Objective of the study

Methodology for the study

UP state scenario with FSSM Bye-Laws

Components of Bye-Laws

Model FSSM Bye-Law Structure and features

Procedure for Gazette Notification of FSSM Bye-Laws (Bijnor Case)

Action for ULBs for FSSM Bye-Laws constitution

Open discussion



# ective of the Study

- 1. To understand the importance of FSSM
- 2. To create a guidelines cum framework for formulation of faecal sludge and septage management Bye-Laws.
- To develop a model bye-laws for faecal sludge, septage, and wastewater management Bye-Law template that can be used by any city of Uttar Pradesh



### nodology



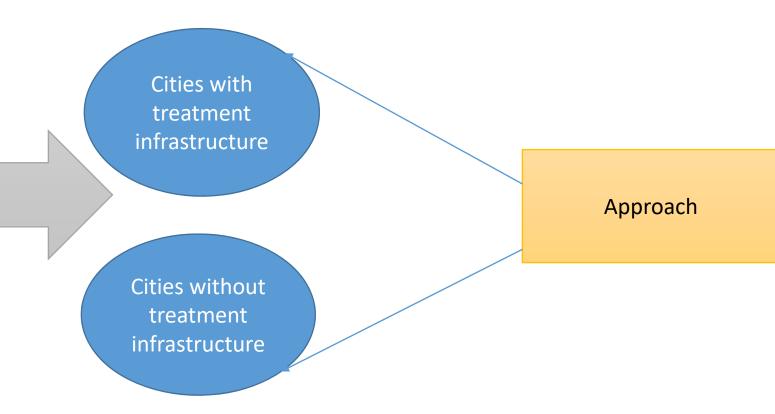
#### Reviewed Bye-Laws:

- 1. Odisha FSSM Bye-Laws Gazette (adopted the structure)
- 2. Tamil Nadu Government Gazette, 2022, Bye-laws on Faecal Sludge and Septage Management.
- 3. Policy on Faecal Sludge and Septage Management, 2018, Government of Telangana.
- 4. Bye-laws for Faecal Sludge and Septage Management (FSSM), 2020, as per, The Uttrakhand State Protocol for Septage Management.
- 5. Bijnor Faecal Sludge, Septage and Wastewater Management Bye-Laws, 2022, Gazette Notification, Government of Uttar Pradesh.
- 6. Draft Septage Management Bye-Laws, Manapparai Municipality 2020, Tamil Nadu
- 7. Guidelines for Faecal Sludge and Septage Management in Uttar Pradesh, 2018, Centre for Science and Environment, New Delhi.
- 8. FSSM Policies of Telangana, Maharashtra, Jharkhand, and Rajasthan.



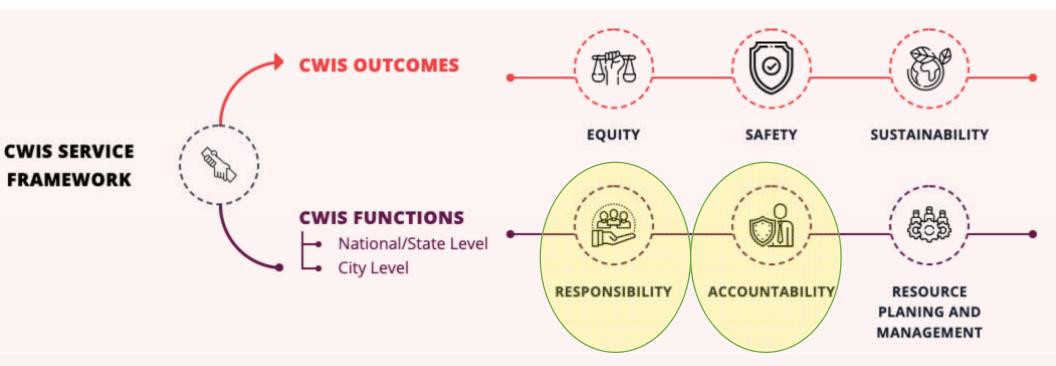
## roach

odel Bye-Laws for faecal sludge, septage and stewater management template



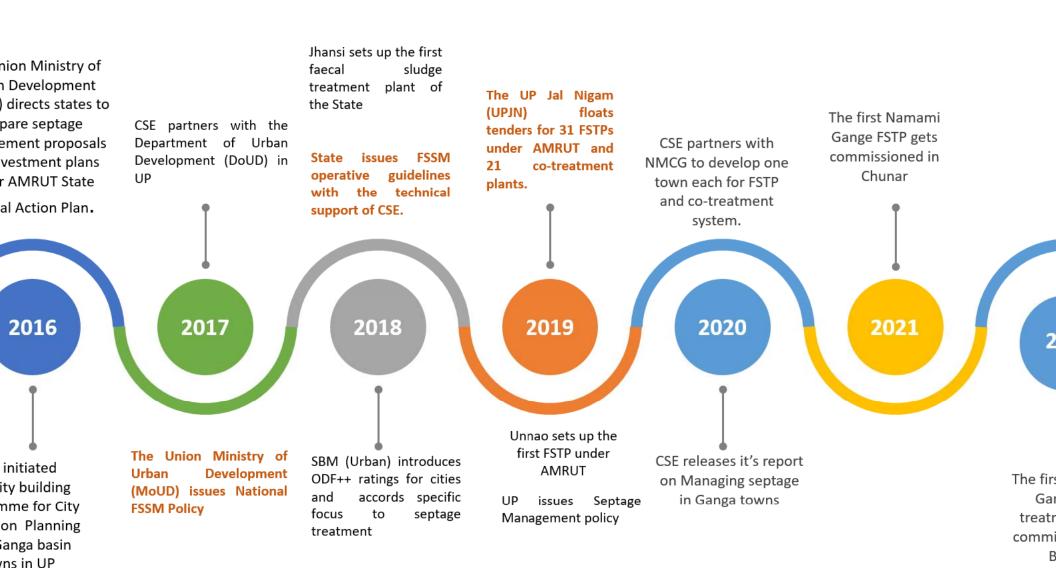


# y we are discussing these Bye-Laws as CWIS on

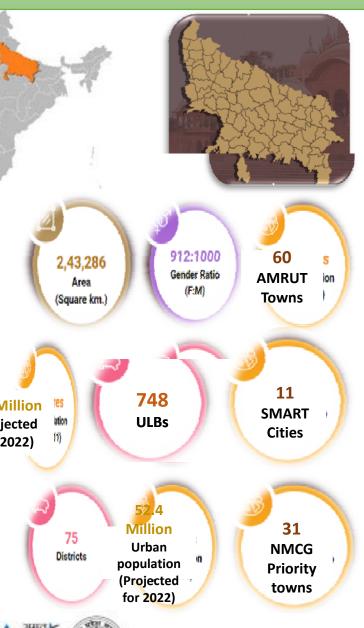


Citywide Inclusive Sanitation (CWIS) is a public service approach to advance <u>Equitable</u>, <u>Safe</u>, and <u>Sustainable</u> outcomes, by strengthening the design and implementation of core public system functions of <u>Responsibility</u>, <u>Accountability</u>, and <u>Resource Planning and Management</u>.

# State: Faecal Sludge Management Journey



### **Pradesh State: Sanitation Profile**



#### **Urban Sanitation Status**

90% of population is not served by sewage or septage treatment facilities



67.9%

Population dependent on nonsewered sanitation systems<sup>1</sup>

<sup>1</sup> Estimated using extrapolated population dependent on non-sewered sanitation systems, considering data provided in Census 2011



31 cities out of 735

Have sewage treatment plants



40 cities

Have sewage and septa infrastructure

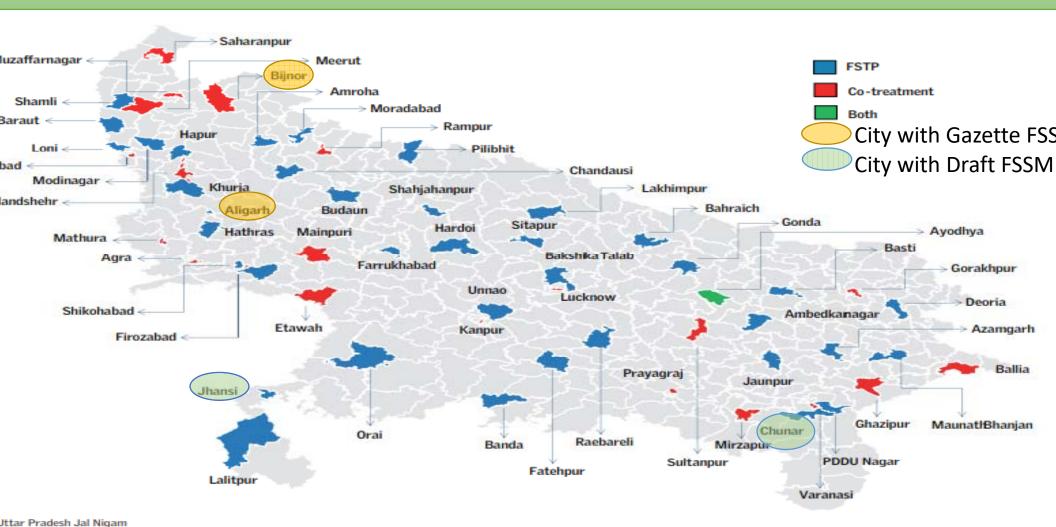


75 cities ou of 735

Have existing/ proposed sewage septage infrastructure



### ate scenario with Faecal Sludge & Septage Management Bye



 Currently Uttar Pradesh state has an Uttar Pradesh Septage Management Policy, which articulates following three septage management (SM) visions:



"By end of 2023, all ULBs have implemented SM solutions in an inclusive manner empowering all stakeholders in the process."

tinued..

#### State workshop on Septage Management to City Wide Inclusive Sanitation-29<sup>th</sup> July, 2022

Total participants- 150+ Total ULBs present- 50+





state is under the process of operationalizing 60+ FSSM projects.

study "Septage Management for Citywide Inclusive Sanitation in Uttar esh" assess the sustainability of these 60+ FSSM projects (launched o

es formation of FSSM Bye-Laws as a priority capacity building and avior change communication factor.



# acture of Bye-laws

gement and disposal of wastewater from the premises of a property.

Sanitation Systems:

ies and compliance by owner or occupier.;

igns, constructions and maintenance of OSS

ing and registration for collection and transport of FSS:

dging/ Collection and transportation of FSS:

sal of Faecal Sludge Septage (FSS):

ies of ULB with treatment facility;

ies of ULB without treatment facility;

nent & Reuse/Safe Disposal of Faecal Sludge and Septage (FSS):

ntification of treatment/disposal site.

sible options in case of no treatment facility-

) Cluster Approach

ii) propose for treatment with interim plan.

istrative Measures:

stration and enforcement of Bye-Laws;

oring, Penalties for contravention, Authority and powers with ULB to ensure compliance.



# Components of Bye-Laws



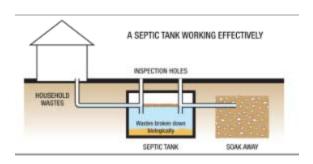
## er-interface/collection/storage (constitution)

ment and disposal of wastewater from the premises of a property - following ways proposed

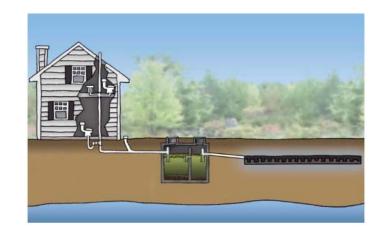
city has a sewerage system necting all the toilets of the (user interface) to sewers



cting toilets (User Interface) tralized treatment units like



3. Connecting toilets (User Interface) to containment units (OSS)





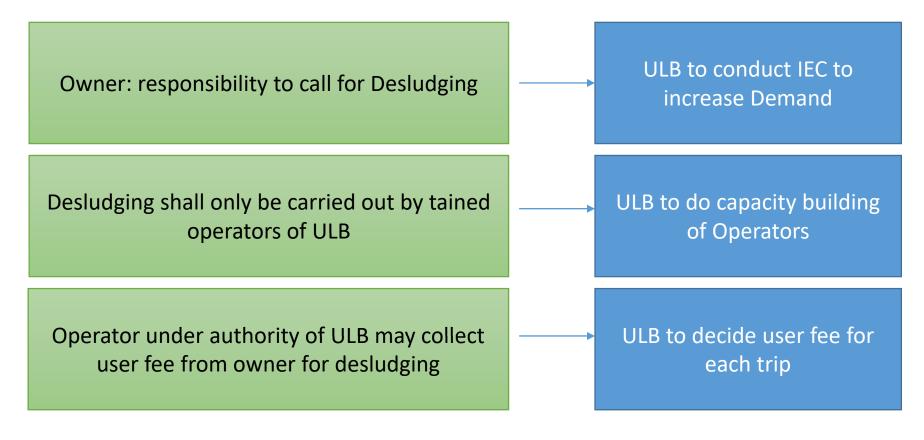
#### Slide 14

HY1

Harsh Yadava, 9/25/2022

# tying/desludging/conveyance and Transportation

anism for mechanized desludging and transport of FSS: Only registered desludging vehicles to be utilized for ng purpose





#### nued...

to

for

ement

ion of

gers

#### ration, Application, Licensing- Process

	Paste a Passport size photograph with ULB Stamp
	Name (s) of the applicant: (Mr/Ms);
	Nationality :( India/Other):
	Address of correspondence:
	Address of Head Office/ Regd. Office:
	Telephone Number: (O).
	(M)
	Email ID:
	Registration No. of vehicle(s):
	(2)
	Fitness certificate of the vehicle(s) valid upto:
	(1)
	(2)
	(1)
	(2)
0.	Pollution certificate of the vehicle(s) valid upto:
	(2)
1.	Vehicle(s) whether fitted with GPS tracker (Yes/No):
2.	Details of payment of processing fee for license
D.D	No.:
	C. C. a. 1.11 ( .15 a 1 ) ( .15
5. 1	.ist of attached documents (self-attested copy) (tick):
	Identity Proof Registration Pollution Address Proof  Certificate(s) Certificate(s) (s)
	Fitness Certificate(s) Driving License Certificates of Passport Size
	Insurance and Photo
	List of employees Policy schedule
	List of employees
	l number of attachments: xxx
	certify that information given by me/us in column 1 to 13 are true to the best of my knowledge and belief. I also certify that I have and understood the attached terms & conditions and agree to abide by them. I agree that if any information given by me is found
	and understood the anached terms to conditions and agree to acide by them. Fagree that it any information given by the is found  given by
	Signature of applicant(s)
	Date:

2. Application to registration for licensing forms

#### Appendix-2

Form 2: Award of the License to Collect, Transport and dispose FSS

License for collection, transportation and disposal of Faecal Sludge &septage in ULB (Name of NN/NPP/NP)



In accordance with all the terms and condition of the By-laws/ Regulations, Municipalities Act rules, the special license conditions accompanying this license and applicable rules and laws of Government of Uttar Pradesh, the permission is hereby granted to:

1.	me(s) of the applicant: (Mr. / Ms.):		
2.	Address of head Office /Regd. Office:		

For the collection, transportation & disposal of faecal sludge & septage from onsite containments in ULB (Name of NN/NPP/NP)

This license is based on information provided in the FSS Collection, Transportation and Disposal License Application Form. This license is effective for a period of one year from date of issue, set forth below.

3. License No:								
::Effective Date:								
Eunication Da	to							

The license may be suspended or revoked for condition of Non – Compliance and is not transferable. The original license shall be kept on file in the license office. A copy of this license shall be carried in every registered vehicle used by the license.

Municipal Commissioner/ Executive officer/ Designated Officer/operator/owner (Name of NN/NPP/NP)

Emptier

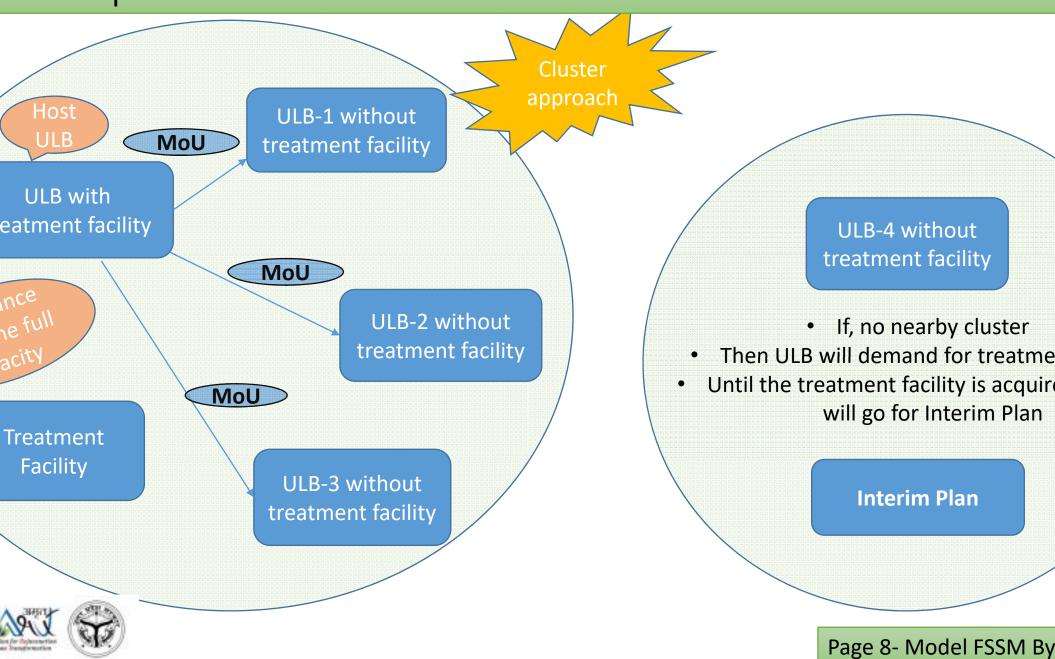
#### 3. Award of License form

#### **Licensing logic?**

- To regularize the in system of desludging by private desludgen.
- To keep records of properties desludge
- To ensure proper monitoring of FSSI town
- To avoid illegal dur
- Ensure load at FST treatment facility.



### ent/Disposal and reuse



nued...

ULB with treatment

the operators about treatment
y and its operation timings
for cluster approach until low
ency of decanting
time to time to operators
Il about routes exempted to
cort FSS.

FSS quality
d keeping
to cluster ULB about
intinuation
check up for desludging

#### **Duties of ULB without treatment**

- Urge for cluster approach and create a MoU
- Notify private desludgers about the cluster treatment facility and allowed timings for decanting FSS
- 3. Regular check in advance with Host with about allowable quantity of FSS at the treatment facility.
- 4. If no cluster in tangible limits of the ULB then approach center to provide treatment facility
- 5. Until treatment facility is constructed create an interim facility for safe disposal of FSS
- 6. Record keeping
- 7. Health check ups & Insurance of operators
- 8. Tipping fee to be paid to "Host ULB"

#### Appendix-8

Form 5: Memorandum of Understanding for allowance of safe at "Treatement Facility" available at "Host ULB."

Form for Memorandum of Understanding between Name of the ULB (NN/NPP/INAME of Host ULB) for allowing the safe disposal of FSS at the Treatment Facilit

#### Memorandum of Understanding

Under Faecal Sludge and Septage Management, for fulfilling the conditions red Disposal of Faecal Sludge and Septage (FSS), coming from the containments of community toilets with in the administrative boundaries of XYZ ULB (Name of "ULB), at "Treatment Facility" under the administration of "Host ULB" (Name of agreement.

First Party

Second Party

"XYZ ULB ( Name of the approaching ULB),

"Host ULB" (Name of the Host ULB)

Clauses:

- That the "Party First" will allow the safe disposal Faecal (FSS) coming from the administrative boundaries of "Pa "Treatment Facility" from the date DD/MM/YY start da (End date)
- "Party First" will inform the daily allowed quantity of Fa "Treatment Facility" in order avoid compromising the lo own administrative area.
- That the "Second Party" according to the understanding xxx as Tipping Fees per round of disposal of Faecal Sludg to "Party First"
- That the "Party First" will share the necessary details lik
  of the treatment facility, allowed approach roads, allow
  maintenance shut of the treatment facility etc. from tim
- That the any difficulties coming in between while doing tasks will be shorted amicably by both parties.
- That the "Party second" will only allow the licenced desi dispose FSS at the Treatment facility of Party First.
- Party First would ensure the entry of licensed Desludger "party second" on their licenses into Treatment Facility

Party Firs

Signature of MC/EO

Sign

#### Form for Creating Memoran Understanding



CPCB.

tors and insurance

e to be enforced as per the

### inistrative Measures and Penalties

um of Appeal preferred before the Appellate Authority						
Appeal preferred before the Appellate Authority						
thority						
(Designation)						
pellant:						
ipal Officer who issued order appealed against						
Designation						
rder appealed against:						
eal;						
on .						
opeal in brief (Attach copy of the order appealed against)						
Details of any to be enclosed in separate ate sheet)						
<u>Verification</u>						
(name of the appellant ),son/daughter/wife ofhereby						
s furnished in the appeal are to the best of my knowledge and belief, true and						
t suppressed any material fact.						
Signature of the Appellant						
ed as enclosure:						
tear here						
tedi licie						
Acknowledgment						
f appeal along with enclosure from						
Date:						
Seal and signature of authorized officer						
By order of <u>ULB (Name of NN/NPP/NP)</u>						
(Seal and signature of Municipal Commissioner/ Executive officer)						
LUD (Name of NN/NDD/ND)						

- Administration & enforcement powers of these regulations are vested in Municipal Commissioner/Executive Officer or designated official by ULB
- ULB may levy **user fees** for FSSM services.
- ULB to inspect OSS, Desludging vehicles & treatment facility time to time for effective implementation of FSSM
- Appeal: Person or User aggrieved from ULB official can appeal to MC/EO. For appeal against MC/EO are to be done in Taskforce

#### **Penalties**

- Direct discharge of excreta to drains
- Untreated FSS discharge from FSTPs, DRE, or co-treatment
- FSS disposal to unauthorized areas
- for unscientific construction or design of containment systems
- Un-registered desludging vehicles

#### Appendix-5

#### **Penalties and fines**

S. No.	Description	Regulation(s)	Indicative fines (in ₹
1.1	Direct/unsafe discharge of wastewater into drain/road/open area	3	50
1.2	Continuing breach 2nd instance	3	<mark>50</mark>
1.3	Continuing breach 3rd and subsequent	3	15 per day
2.1	Unscientific design and construction of OSS	5	<mark>50</mark>
2.2	Continuing breach 2nd instance	5	<mark>50</mark>
2.3	Continuing breach 3rd and subsequent	5	15 per day
3.1	Plying of vacuum tanker(s) without ULB registration	6	<mark>50</mark>
3.2	Continuing breach 2nd instance	6	<mark>50</mark>
3.3	Continuing breach 3rd and subsequent	6	15 per day
4.1	Plying of vacuum tanker(s) without valid certification(s) as recommended in the Traffic Rules	7	<mark>50</mark>
4.2	Continuing breach 2nd instance	7	<mark>50</mark>
4.3	Continuing breach 3rd and subsequent	7	15 per day
5.1	Non-compliance to attend accidental spillage		1000
5.2	Continuing breach 2nd instance	19,20	<mark>1000</mark>
5.3	Continuing breach 3rd and subsequent	19,20	100 per da
6.1	Discharge of untreated FSSW from FSSTP/STP	27,28,33	10000
6.2	Continuing breach 2nd instance	27,28,33	10000
6.3	Continuing breach 3rd and subsequent	27,28,33	1000 per da
7.1	Discharge of untreated FSS at location other than that Notified by ULB	27,28,33	10000
7.2	Continuing breach 2nd instance	27,28,33	10000
7.3	Continuing breach 3rd and subsequent	27,28,33	1000 per da

Source: adopted from Odisha FSSM Re



### tte process taken in Bijnor City

Stakeholder's consultation rkshop/हितधारक परामर्श कार्यशाला

- Formation of a City Sanitation Taskforce and sensitizing them on FSSM
- Consulting all sanitation workers, private emptiers, RWA''s, Public leaders, ward members etc. Next draft the FSSM Bye-laws and keep it in the council meeting for any challenge or further clarities
- Making a final draft for newspaper notification



Newspaper notification for challenges on bye-laws/उप-नियमों पर किसी भी चुनौती के लिए समाचार पत्र अधिसूचना It is necessary put each and every aspect of every laws in at least two famous local newspapers.

- Put the bye-laws on municipality noticeboard
- Wait for a 30 or 45 days for any challenges or from the citizens on the draft bye-laws
- In case of any query, please clarify it to the pethere are challenges then put again the issue meeting and repeat the notification process in newspapers.



Final Gazette of FSSM Bye-laws at Prayagraj/राजपत्र कार्यालय प्रयागराज में FSSM उपनियमों का राजपत्रीकरण

- Cover letter
- Finalized Bye-Laws
- Newspaper notification copies (a two newspaper copies)
- Clarification or query response re
- Challenge response and update notification (if any)



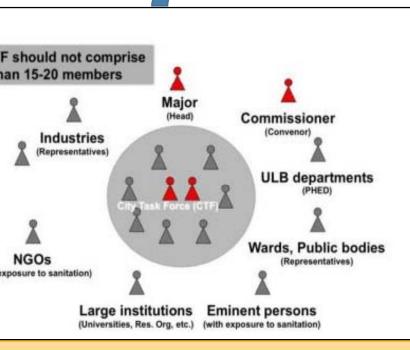
# to use Model-bye-law template (Draft..)

The Model By-laws are developed for Faecal Sludge, and Septage Management (FSSM) in cities of Uttar Pradesh. The following points must be read carefully to understand the usage of Model Byelaws

- In the model bye-laws, three distinct colours have been used for the ease of understanding and taking necessary action by the ULBs developing the ULB-specific bye-laws
- ii. The text highlighted with the following colors will denote the following
  - a. Xxx xxx: In this shade of color, the name and/or category of the respective ULB or the designation of the executive head of the ULB
  - b. Ddd ddd: Texts in the model bye-laws if highlighted with this colour would mean that the ULBs have to take ULB specific decision and in some cases the same would require discussion at various levels of the ULB. The current values highlighted with this colour is only for example, not to be taken in ditto.
- iii. The bye-laws appendix 5 and 9 of these by-laws are to be restructured completely according the local context of the administrative are of the ULB for which by-laws are being made.
- iv. While drafting the provisions for penalties in Model By-laws the ULB must decide what strategy they want to take for implementation of FSSM in the area.
- v. The Model By-laws could be used any type of ULB based on the availability treatment facility with ULB, any adjacent ULB or seeking for treatment facility
- vi. The interim treatment facility or temporary management of FSS for the ULBs seeking for ideal treatment infrastructure must adhere to standard state or national practices.



### on for ULBs for FSSM Bye-laws constitution



te a City Sanitation Taskforce (CSTF)



- Sensitization of (CSTF) on FSSM and Wastewater
- Initiate discussions on FSSM Bye-Laws (use template
- Decide on pre-thinking codes mentioned in FSSM by laws template

Draft FSSM Bye-Laws using model Bye-Laws template

- Call for Desludgers/ registrations
- Sensitize them about FSSM
- Make agreements
- Resolve issues & challenges
- Final draft of Bye-Laws
- Putting Bye-Laws in city council
- Local newspaper notification
- Resolving challenges
- Final Gazette notification

# ting Bye-laws: what ULBs need to decide

cide upon: (Fees)

Registration fees for private desludgers

h ULB

icense renewal fees

ipping fee

cide upon: Monitoring Pattern

Whether go for GPS monitoring or not?

Whether go for third party monitoring

system

Explore more .....

**Decide upon: Penalties** 

1. Direct discharge of excreta to drains

2.Untreated FSS discharge from FSTPs, DRE, or cotreatment

3. FSS disposal to unauthorized areas

5. For unscientific construction or design of containment systems

6. Un-registered desludging vehicles

7. Counts of breach ULB want to bear or penalize

**Decide upon: Interim Treatment (If applicable)** 

#### **Decide upon: Re-use of treated wastewater:**

- 1. Whether to use for horticulture;
- 2. Or construction;
- 3. Or agriculture
- 4. Explore more....



### ussion

all components covered in the Bye-Laws?

**nent A-** To ensure that all cities of Uttar Pradesh could initiate formulation Bye-Laws to create an ecosystem for management of Faecal sludge, septage water management merged template is prepared. It could be used by cities nent infrastructure

ould we create separate bye-laws on FSSM for ULB with treatment and ULB ut treatment facility or a merger document?

**nent B-** An approach to form a cluster of ULBs (may be 2 or 3) dependent u LB (Host ULB) that has a under utilized faecal sludge treatment facility

e cluster approach is limited until the host ULB would attain maximum frequacity: Possible suggestions?

v Bye-laws can be implemented effectively?

