

Government of Chhattisgarh

Policy for

FAECAL SLUDGE & SEPTAGE MANAGEMENT

CHHATTISGARH

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Introduction

Chhattisgarh is urbanizing at an accelerated pace, as the urban population increased by 31.14% between 2001 and 2011 (on par with India's urban growth rate of 32.15%). As per Census 2011, around 23.24% (59.37 lakh people) of Chhattisgark's total population lived in urban areas, and current growth trends indicate that this number is expected to grow exponentially in the upcoming years. The number of Urban Local Bodies (ULBs) increased from 75 in 2000, to 168 in 2015 with addition of 93 new ULBs or a 124% increase. It is incumbent on these ULBs to implement and manage urban services including safe sanitation, faecal sludge 8 septage management.

Further as per Census 2011, a mere 9.1% urban Households in Chhattisgarh were connected with a piped sewerage network. On the other hand, more than half the urban population (50.71%) relied on on-site sanitation systems such as Septic Tanks (48.6%), Pit latrines (1.15%) and other systems (0.96%) for collection of faecal sludge and wastewater. This clearly indicates that on-site sanitation far supersedes piped sewerage system and is the primary sanitation system in Chhattisgarh. Chhattisgarh has an ambitious target of constructing 3.52 lakh toilets by 2017 in urban areas under SBM, and while it is expected to eliminate the undignified practice of open defecation, it only addresses the first component of the sanitation value chain. The pertinent issue of proper collection, conveyance, treatment and disposal of the faecal sludge/septage is likely to remain.

Thus, given the limited coverage of piper sewer system, absence of sewage treatment facilities, and prominence of on-site sanitation as the primary sanitation system in urban areas faecal Sludge and Septage Management (FSSM) is expected to assume the central role in providing safe, hygienic and sustainable sanitation services in Chhattisgarh. Rightly so, FSSM has also been identified as a central challenge in achieving the vision of an 'Open Defecation Free' India and Chhattisgarh. In the spirit of the 'Draft National Policy on Urban faecal Sludge and Septage Management (FSSM), 2016', this document on 'State Urban faecal Sludge Management Policy for Chhattisgarh' identifies issues of safe sanitation in urban areas and provides an outline for establishing and effectively operationalizing FSSM at state and city level in Chhattisgarh.

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Key Issues and Challenges

The road ahead for Chhattisgarh in operationalizing FSSM across the state will be a challenging one. It is estimated (based on Houselisting and Housing data in Census, 2011), that around 15.9 lakh litres of faecal sludge is produced daily from septic tanks, public latrines and pit latrines alone, while almost 2.63 lakh litres of human waste is generated from open defecation. A further 2.61 lakh litres of faecal sludge (not including the wastewater) is generated from piped sewer system and service latrines, which is more often than not, disposed in an unsafe manner.

The issues and challenges have been surmised under three broad categories:

1.2.1 Limited Awareness and Capacities

- Uniform lack of awareness and capacities for faecal Sludge and Septage Management in urban areas of Chhattisgarh, especially among the residents, service providers and the ULBs.
- Active participation and organization is missing among the residents limited knowledge on FSSM practices, no community level monitoring of existing operations, untimely desludging of septic tanks by households, prevalence of undesirable toilet hygiene and usage, construction of on-site systems not at par with standards, etc.
- ULBs not properly introduced to planning for FSSM, technologies, standard procedures, management framework, manpower requirements, etc., and thus are unable to take necessary action/initiatives.
- Insufficient capacities and coordination between ULBs and State government. ULBs often lack capacities to mobilize resources (funds, manpower, expertise, equipment, etc.) on their own to deliver effective services, while the transfer of resources from the state govt. to local govt, becomes a tedious process.

1.2.2 Lack of Proper Planning, Design & Implementation of Sanitation infrastructure

- Most stakeholders (such as various state government departments, ULBs, residents, desludging operators, service providers, etc.) are not up-to-date on latest developments in FSSM modern technologies, standard construction techniques, operating procedures, safety & hygiene safeguards, etc.
- Toilet systems such as septic tanks, single/twin pit pour flush latrines, etc. are not constructed as per design specifications – BIS and NBC, and thus there are frequent incidences of leaks, breakages, failures and contamination of soil, air and water.
- Desludging operators and Service providers are not properly trained and do not use safety equipment during operations.
- Currently, there is a complete absence of any wastewater/septage treatment facility in Chhattisgarh. Although new STPs are being proposed in a few towns under AMRUT other cities and smaller towns would require dedicated septage and faecal sludge processing/ treatment facilities for safe disposal or reuse.

1.2.3 Weak Institutional Framework

- Ambiguity in delineation of responsibilities and overlapping mandate among various government agencies at state and city level.
- Absence of dedicated service level benchmarks for FSSM.
- Limited availability of Standard Designs, Operating Procedures, Guidelines, Manuals, dedicated norms, etc. for city-wide FSSM to aid the ULBs for effective planning and implementation.
- Insufficient funds available for creating/OBM of city wide FSSM infrastructure. They are further unaware of various suitable service delivery mechanisms for financially viable operations.
- ULBs are not empowered to collect sanitation taxes, services charges, etc. required to maintain a steady revenue stream and sustaining FSSM infrastructure.

1.3 Policy Vision

To ensure improved quality of life for the urban population, specially the vulnerable sections of the society, through sustainable Faecal Sludge and Septage Management services, by taking a holistic and participatory approach, while protecting precious environmental resources.

Policy Goals

The primary aim of this policy is to establish FSSM as a central component in delivery of safe sanitation service in Chhattisgarh by creating a favourable environment for its effective implementation across all urban areas in a pragmatic, sustainable and participatory manner. The Policy will strive for:

Ensuring timely collection & treatment

Encouraging a shift towards scheduled desludging of septic tanks, pit latrines, etc. (periodically within 2 – 3 years) in all ULBs, while generating awareness and incentivizing households for the same. All collected faecal sludge should reach the treatment facility (without arbitrary and illegal disposal) and treated as per standards for safe disposal/reuse. Greater emphasis on technologies that consume very less power, use biological processes.

Ensuring optimum resource recovery

The treatment facility would maximize reuse of treated wastewater and sludge for various public and commercial purposes. This will contribute in part towards cost recovery and even profit generation

Greater Awareness and Active Participation

The residents would become active participants in the implementation and monitoring process, while all stakeholders would be sensitized and sufficiently made aware of the processes, procedures, components, etc. of FSSM. Multiple channels (digital, broadcast, print, physical, etc.) for communication, learning and stakeholder engagement would be used.

Creating an enabling institutional and regulatory framework

The mandate, roles & responsibilities of all government departments and other stakeholders would be clearly defined and necessary steps taken for augmenting their capacities. Appropriate institutions, management & monitoring systems and standard procedures would be put in place at

state and city level that incrementally strengthen FSSM operations in urban areas. The institutional framework would also enable an environment conducive for greater participation of private

Innovation in service delivery and management

Improving service delivery, management and monitoring by introducing technological interventions such as I.T. enabled single window system, GIS/GPS aided planning and operations, custom MIS modules, etc. and greater emphasis on private participation in service delivery.

A strong partnership network

Multi-sector partnership of government agencies/ULBs with other public/private organisations, groups and institutions for collaborating on knowledge improvement, funding, improved services, business opportunities, research & innovation, stakeholder engagement, peer learning, etc. Formal and Informal platforms would be established for networking arrions various ULBs, service providers, associations, etc.

Expected outcomes

While the goals set out broad aspirations and intention of the policy, the expected outcomes are tangible end results if the goals are achieved.

- Safe handling and complete containment of faecal Sludge and Septage during collection, conveyance, treatment and disposal
- Greater Progress in transition from reactive on-call service to periodic & scheduled service, along with formalization of service providers (masons, operators, tankers, etc.)
- Significant reduction in contamination of soil and water (surface and underground) due to human waste
- Noticeable improvement in public health indicators including morbidity and mortality rates across urban areas in the state - reduced incidences of water-borne diseases
- New opportunities and avenues emerges where sanitation and FSSM services emerge, based on cost recovery and profit generating business models
- Augmented capacities across institutions (State and city-level) that could possibly be replicated in other sectors

Actions

Strategic Policy Actions

1.5.1 IEC 8 Stakeholder Engagement

A rigorous awareness campaign should be undertaken to educate various stakeholders about Faecal Sludge and Septage Management. ULBs can be tasked with spreading awareness among residents about govt, schemes, scheduled desludging, various incentives, good sanitation practices and monitoring of FSSM operations. This would be done with the involvement of ward councillors, community leaders, local registered groups, etc. State government can identify institutions and agencies to undertake awareness and communication operations at state and ULB level. Multiple channels may be used for the same - such as media (social, print, broadcast, etc.), advertising, flyers/ brochures/ booklets, workshops, road shows, rallies, announcements, meetings, etc.

1.5.2 Institutional and Regulatory Framework

A dedicated FSSM cell & committee can be set-up within UDD, Govt of Chhattisgarh and further State- level FSSM rules and guidelines would be formulate that will include Standard operating procedures and training material for ULBs, Manuals for service providers, models drawings/DPRs/Bid Documents, model Septage Management rules for ULBs, technological options, etc. All informal FSSM operations (by masons, desludging operators, cleaners, etc.) would be formalized via appropriate channels, such as licensing by ULBs, formal trainings, access to formal finance, etc. Roles of various stakeholders including State government departments, ULBs, residents, service providers and private sector partners shall be clearly defined for reducing ambiguities and overlap of functions.

1.5.3 Partnership Building

A strong network of partners in various sectors and of various backgrounds would be established, including renowned specialists/experts, Corporates, Research/Academic established, Civil Societies/NGOs, private service providers, Danor agencies, Bilateral/ Institutions, Civil Societies/NGOs, private service providers, Danor agencies, Bilateral/ Multilateral agencies, etc. for bolstering capacities and knowledge in the sector. There will be a minoreased need to encourage greater private participation in service delivery and is an increased need to encourage greater private participation in service delivery and financing of FSSM activities by creating an enabling regulatory environment and creating opportunities.

1.5.4 Funding and Financing

New and Innovative modalities for financing FSSM would be explored, which may include – ppp, CSR funds, Guarantee funds, Donor grants, WSPF, etc. Greater emphasis would be given to FSSM models that ensure Cost recovery and profit generation, especially through given to FSSM models that ensure Cost recovery and profit generation, especially through collect freated end product (wastewater and sludge). ULBs would be empowered to collect service charges, tipping fees, sanitation taxes, etc. in order to maintain a steady revenue stream for OEM of FSSM assets and services. Synergy would be ensured between funds and goals of various Central government programs such as AMRUT, SBM, Smart funds and goals of various Central government programs such as AMRUT, SBM.

1.5.5 Implementation Support and Service Delivery

State government will play a facilitating role in implementing of FSSM at state and city level. Necessary support will be given to ULBs for timely preparation and implementation of city level FSSM plans, strategy and rules. A system of incentives and penalties may be devised to encourage greater participation among residents, compliance by service be devised to encourage greater participation among residents, compliance by service providers (heavy penalties for illegal waste disposal, while monetary incentives for disposal at designated site), and better performance of ULBs. Residents who get their septic tanks cleaned as per schedule or in a timely manner can be given a discount in septic tanks cleaned as per schedule or in a timely manner can be given a discount in septic tanks cleaned as per schedule or in a timely manner can be given a discount for the service charge/municipal taxes, while others would have to pay a higher amount for

1.5 6 Monitoring and Evaluation

The state will evaluate FSSM operations at city level through dedicated service level benchmarks (such as San-Benchmark Framework suggested in Draft National FSSM Policy) for all ULBs. A performance based system of incentives and penalties may be devised for rewarding high performing ULBs and encouraging ULBs with poor performance to improve. Local Communities and Registered Groups would be involved in monitoring and compliance of FSSM operations, with encouragement by the ward councillors.

1.5.7 Capacity Building and Training

Capacity assessment should be carried out across state government departments and ULBs, and necessary measures to be taken to fill the gaps. External agencies would be engaged and proper modules would be prepared for training government officials, service providers, ULBs, etc. on relevant FSSM practices, technologies, operating procedures, techniques, financial assessment, etc.

1.6 Annexures

1.6.1 Regulatory Framework

The existing national and state level framework in terms of legislation, policy, programs, standards, guidelines, etc. has been presented below. This provides a brief background on the current regulatory regime, important considerations and priorities, setting a context for this policy.

Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2013	The Employment of Manual Scavengers and Construction of Dry Latrines (Prohibition) Act, 1993	Municipal Solid Waste (MSW) Rules, 2016	74th Constitutional Amendment Act, 1992	Legislations Environment (Protection) Act, 1986 and the Water (Prevention and Control of Pollution) Act, 1974
It intends to empower "District level survey committee" 8 "State level survey committee" towards the complete abolition of manual scavenging without certain obligations. "Hazardous cleaning" in relation to sewers and septic tanks is banned and that manual cleaning of sewers and septic tanks, if necessary, may be carried out only in very controlled situations, with adequate safety precautions, and in accordance with specific rules and protocols for the purpose.	ban on dry latrines, i.e., latrines with no water-seal or flushing mechanism, and the employment of persons for manually carrying human excreta	disposal and treatment of faecal sludge and septage, before or after processing, at landfills and for use as compost; and final and safe disposal of post-processed residual faecal sludge and septage to prevent contamination of ground water, surface water and ambient air;	Responsibility for the planning and delivery of urban services, including sanitation, lies with urban local bodies under local municipal laws and the 74th Constitutional Amendment Act, 1992.	Brief This Act applies in principle to every establishment, agency, or individual discharging any pollutant into the environment. 'Pollutant' includes treated or untreated sewage. It provides a framework for control of effluent, wastewater and septage discharge

Policies, Missions & Guidelines	Brief
National Urban Sanitation Policy, 2008	It intends to make all Indian cities and towns become totally sanitized, healthy and liveable and ensure and sustain good public health and environmental outcomes for all their citizens with a special focus on hygienic and affordable sanitation facilities for the urban poor and women.
Chhattisgarh Environment Policy	Encouraging optimal use and recycling of wastewater, Use of bio-fertiliser for organic farming, generating fuel from biomass, Decentralizing the monitoring of environmental compliance by empowering local governments and communities,
Guidelines for Swachh Bharat Mission (Urban), 2014	It intends to eliminate open defecation, eradication of Manual Scavenging and to effect behavioural change regarding healthy sanitation practices in Urban areas.
National Assion on Sustainable Habitat (NMSH), 2010	National Mission on Sustainable Habitat (MMSH) is a component of the action plan for climate change, focus on waste recycling.
Atal Mission for Rejuvenation and Urban Transformation	Improving basic services (water supply, sewerage & septage, urban transport) in cities through reforms in urban governance, augmentation of basic infrastructure and establishing a sound institutional framework for effective delivery, through an incremental approach

The policy document tries to build upon the existing legislative, policy and regulatory framework, and amalgamates it into a single cohesive document, that would guide FSSM implementation in the urban areas of Chhattisgarh.

1.6.2 Role of Stakeholders

Agency	Role	Roles and Responsibilities
Urban Development Department	•	Overall supervision and coordination of FSSM operations in Chhattisgarh
	•	Formulating a roadmap for realisation of the State FSSM Policy
State Urban Development Agency	•	Nodal Agency for managing FSSM operations for Chhattisgarh
	•	Responsible for preparation of the State FSSM Guidelines, Standard Operating Procedures, User Manuals, Model
		FSSM rules for ULBs, drafting state acts and policies
	•	Coordinating networking among various stakeholders
	•	Responsible for building partnerships
Chhattisgarh Environment	•	Provide NOC for Licensing of Desludging trucks and
	•	Enforce compliance of the relevant environmental laws and rules during the collection, transport, treatment
		and disposal of taecal sludge and septage - through inspections, environmental monitoring, etc.
	•	Address grievance related to environmental hazards due to FSSM operations
	•	Assist in formulation of relevant advisories, guidelines, manuals, etc. to ensure environmental compliance for FSSM operations
Social Welfare Department		Ensuring compliance of provisions under the "The Prohibition of Employment as Manual Scavengers and their Rehabilitation Act, 2013"
Other State Government Departments	•	Sufficiently incorporating the provision of this policy in their projects, schemes, programs, policies, plans, guidelines, activities, etc.
	•	Provide necessary sectoral inputs towards State FSSM strategy, rules, acts, guidelines, etc.

Agency	Roles and Responsibilities
Households	Periodic cleaning and desludging of Septic Tanks as per Schedule
	 Timely payment of service charge/sanitation tax/other fees, if anu, towards FSSM services
	Regular maintenance and monitoring of septic tanks
Desludging Operators	 Timely collection of waste from households as per schedule and disposing waste at designated locations
	 Strict adherence to code of conduct/standard operating
	 Regular maintenance of equipment and vehicles Maintaining up-to-date logs, manifests and reports
Service Providers - Masons, Designers	 Acquire requisite skills through training and capacity building to design and construct quality septic tanks as per ISO norms
Private Sector	 Active participation in service delivery of FSSM at state and city level
Financial Institutions	 Providing financial assistance to desludging operators for purchasing new vehicles or upgrading existing equipment Extending low-interest loans to households for construction, repair of toilets and septic tanks Possible source of finances for creation of community or city level assets - community toilets, treatment plants, transfer stations, etc.
Multilateral, Bilateral and other International Institutions	 Integrate pravision of FSSM Policy into the programs, projects and activities
Academic, Research and Civil Society Organisations	Undertake primary research to further safe and sustainable FSSM Develop models for safe and sustainable delivery of FSSM services to all
	Support implementation of FSSM activities at ground level Ruise awareness and sensitization on the importance of
	Provide monitoring support to the ULB on any unsafe
	proclices that impact effective FSSM Set up regular interactions with the ULB to discuss
	operational issues and be part of the solution