Gulariya Municipality

Introduction

- Total area: 91.19 sq. Km; Total wards: 14 (236 TLOs);
- Total HHs: 10,922; Population: 60,379 (Female 29,300);
- Urban: 15-20%; Peri-urban: ~ 80%;
FSM Process

Capture/Storage
- Awareness raising and Behavioural Change;
- WASH Coordination Committees and local Plans;
- Motivation and Monitoring of sanitation facilities;

Treatment/Reuse
- Coordination and sensitizing stakeholders (11 months);
- Design and Construction (7 months);
- Collaboration/partnership for construction and O&M of FSTP;

Emptying/Transport
Coordination and Collaboration with municipality and informal sector;
FSM Chain
Capture/Storage

- Individual toilets – 10,922;
- Institutional – 319;
- Public toilet – 5;
- ~ 90% pits and ~ 10% septic tanks/bio-gas/Ecosan;
• Manual pit emptying – 50% by informal sector;
• Introduction of mechanical pit emptying by informal sector;
• Mechanical emptying by Municipality (tender awarded to procure cesspool vehicle TATA 909);
• FS generation – ~30 m³/day
- Design capacity 3 m³ per day

Compost production – 5000 kg/year (approx.)
Business Model

Customers $5,960

Municipal Service Provider $6,450

Compost $1,180

Informal Service Provider $3,680

TPO

Visitors Fee $50

Visitors $700

Customers
FSM
Challenges

Capture/Storage
- Lack of standard design & construction practices of septic tank & pits;
- Inadequate reinforcement and monitoring of building bye-laws (septic tank is mandatory);

Emptying/Transport
- Unavailability of emptying services and unregulated services;
- Personal safety and hygiene of manual pit emptiers;

Treatment/Reuse
- Stakeholders were doubtful on O&M of STP – odour;
- Religious concerns – FSTP would pollute water;
FSM

Strategies to overcome challenges

• Increased awareness and common goal/target – Total Sanitation;
• Extensive consultations, orientations, meetings, discussions, presentations video shows and field visits;
• Recognising feedbacks/suggestions and incorporation;
• Endorsement in the municipal and district plan;
Recommendations

- Pay adequate attention to acquire land for FSTP;
- Actively engage all relevant stakeholders;
- Collaborate and partner with key stakeholders;
- Ensure ownership and leadership from the local government crucial to get support from stakeholders;
THANK YOU!

- Fecal Sludge is not wastewater