

SMART SEWERAGE

Guideline No. 2.4 (iii) provides for sanitation as a core element of a Smart City. The key features of a performance based management contract for a Smart Sewerage System are given below.

1. Single agency responsible for Study, Rehabilitation, Augmentation and Maintenance of Sewerage network for long term i.e. 10-15 years with objective to provide maximum coverage and connection to the households, maintain the entire sewerage network for efficient collection so as to ensure adequate sewage flow to STP.
2. DEWATS/FSM (Decentralised waste water treatment system/ Faecal sludge management) can be integrated and made part of the PBMC.
3. Zonal approach of Management and implementation to monitor overflow of manhole or leakage in the network.
4. Assets mapping on GIS for maintaining all data, records and assets for future use in maintenance.
5. Online monitoring of identified manholes at important locations for overflow for sending message to server and recording through SCADA using GSM modem.
6. Provision of SCADA for integration with existing system at Sewage treatment plant for recording control at all important delivery points (at the outlet of WTPs) and at the entry of points of sewerage zones.
7. Payment to the contractor linked with performance during the entire contract.
 - I. **Study Survey and Design phase:** 60: 40 (Work done: successful commissioning).
 - II. **System Rehabilitation and augmentation work:** 80:10:10 (Actual Work done: Commissioning of laid system: Commissioning of entire Zone)
 - III. **Payment on Operation Maintenance Services and Coverage:** 60:40 (Basic service delivery: Specific service delivery)
8. The implementation stages are (a) Study Survey and Design period – 12 months (b) System Rehabilitation and augmentation work 12 to 48 months (c) Operation Maintenance Services and Coverage–12 to 120 months
9. Penalty for non-achievement of minimum Basic service delivery level i.e. Payment linked to number of instances of Sewer spills, penalty for delay in complaint redressal
10. Bonus for early completion of work and delay damage for delay in completion

and incentive for achieving the additional coverage beyond the benchmark fixed.