

ADB–Gates Foundation
Learning Week
1–4 December 2020

Madhya Pradesh Urban Services Improvement Project-Additional Financing

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Madhya Pradesh Urban Services Improvement Project -Additional Financing

Madhya Pradesh.

- Fifth most populated state of India with a total population of 72.6 million
- Eighth most urbanized state of India with 20.1 million of urban population
- Low-income states with high urban poverty rate of 21%
- Total urban local bodies : 378
- limited technical, financial & institutional capacities

Issues/ Problems

- low water supply service coverage with intermittent operations, weak water pressures, and wastewater infiltration risk
- untreated wastewater discharged into local environments, compromising livability of the towns and creating health and safety hazards



- Board date: 25 Sept 2020
- Completion Date: March 2028
- Modality : sector loan (project)
- Total cost : \$385.7 million
 - ADB : \$270.0 million
 - Government : \$115.7 million
- Loan agreement : 12 October 2020

Output – Water Supply Infrastructure Improved

Source
development/transmission



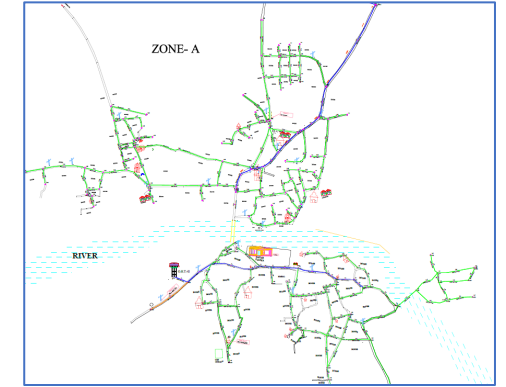
Treatment and SCADA



Clean water storage



Distribution System



62 Urban Local Bodies (ULBs)

Universal coverage

100% metering

Volumetric tariff coupled with Government of Madhya Pradesh Led

Urban Property tax reforms

e-Governance – billing and collection

Customer service center

Water Safety Plan

House connection



Output: Integrated stormwater and sewage infrastructure improved

6 ULBs

Rehabilitation and construction of drains

Improving of existing water bodies

Cross drainage works

Sewage collection, treatment and safe disposal

Sewerage system - network works

Treatment

Sludge utilization

Fecal sludge management

e-Governance

Customer service center



Existing
situation

Integrated Urban Planning – Two ULBs



Existing situation



After project (to be)

Mainstreaming City-Wide Inclusive Sanitation
Women safety audit

Output

Institutional strengthening and capacity development for sustainable services



Institutional strengthening of ULBs

Sustainability plans

Behavior Change Communication

Internship program for women student



ADB-BMGF COLLABORATION FOR INCORPORATION OF CITY-WIDE INCLUSIVE SANITATION

Supported by TA HUBs

Economic growth,
urban livability improved, and infant mortality
reduced in Madhya Pradesh

Mainstreaming City-Wide Inclusive Sanitation

Everyone in the city has access to and benefits from sustainable sanitation services,
and special focus on vulnerable, women and children

RESPONSIBLE AND ACCOUNTABLE

- GOMP priority
- Mandate for roles and institutions
- Regulations & KPs
- Data systems, monitoring & evaluation

SAFE AND RELIABLE

- Diverse and technical solutions
- Safe service delivery
- Occupational health & safety measures

EQUITABLE & INCLUSIVE

- Fair allocation of resource, service quality & design of tariffs
- Gender & social inclusion

SUSTAINABLE

- Motivated, equipped capacity to sustain
- Viable service providers
- Recovery & reuse
- Natural resource management

✓ Area 1: CWIS Planning Tools - Evidence-based

✓ Area 2: Integrated Urban Planning - Coordinated with: water, drainage and solid waste management

✓ Area 3: 6 ULBs Detailed Project Report - Incremental, with realistic, feasible steps, part of long-strategies using adaptive planning

✓ Area 4: Capacity building, Sanitation regulatory reforms

IMPACT

OUTCOME

ELEMENTS
CHECKLIST

HOW

Scope of Work and Outputs – BMGF's Technical Advisory Team



AREA 1 CWIS PLANNING TOOLS

- **CWIS Compliance Assessment Framework**
- **Feasibility study approach and methodology** to include technical solutions, sustainability measures
- **Best practices document** highlighting innovative technical solutions, reuse/recycle models, integrated sanitation system, ICT based municipal service management systems
- **Decision matrix framework** for delineation of areas suitable for relevant sanitation interventions
- **Checklists** and **stakeholder consultation** formats



AREA 3 6-TOWN SANITATION PLANNING

- **Existing DPRs review** to assess compliance with CWIS principles
- **Strategic plan for NSS, groundwater resource protection**
- **Sustainability module** on various project segments and **sustainability implementation road map** including project critical success factor (CSF)
- Develop **social infrastructure improvement plan** including gender mainstreaming and implementation plan
- **IMIS requirement analysis, customization and implementation** for 1 out of 6-towns sanitation planning
- **Capacity building curriculum outline**

AREA 2 2-TOWN INTEGRATED URBAN PLANNING

- Develop **Strategic plan for NSS** including innovative, cost efficient and climate resilient infrastructure solutions, groundwater vulnerability assessment and management
- Propose **sustainability module on various segments** for inclusion in relevant sections of project design, planning and operations
- **Sustainability implementation road map** including project critical success factor (CSF)
- Develop **social infrastructure improvement plan** including gender mainstreaming and implementation plan
- **Integrated Municipal Information System (IMIS) Customization and Implementation** /Support in Strategic Sanitation Planning for 1 town



AREA 4 SANITATION REGULATORY REFORMS AT STATE LEVEL

- **Draft FSM policy** of Madhya Pradesh
- **Update FSM guideline** of Madhya Pradesh
- Sanitation **regulatory reforms** for state applicability
- **Sustainability planning road map** for MP
- **IT/ICT based planning** for service delivery

Achievements, Challenges and Way Forward

ACHIEVEMENTS

- **CWIS planning & assessment tools developed** – feasibility assessment approach & methodology, decision matrix framework, mobile based app
- **Typology matrix** developed to demarcate areas with Non-Sewer Sanitation in 6 towns
- **NSS concept proposal, sustainability modules & IMIS** recommendations for 6-towns
- **Master Bid Document** agreed by MPUDC
- MPUDC **Nodal teams** for IUP and wastewater management outputs
- Typology maps developed for two IUP ULBs – CWIS assessment

CHALLENGES

- **Retrofitting of CWIS** is inefficient
- **Limited knowledge, skills and experience** amongst existing consultants, MPUDC
- **Availability, reliability and credibility** of data pertaining to sanitation, buildings, settlements
- **Covid induced restrictions** towards reconnaissance and field studies, primary data collection
- **Virtual coordination**

WAY FORWARD

- CWIS approach to be **mainstreamed** at the **project concept stage**
- Focus on risk informed and climate resilient guideline for CWIS
- Data driven planning, design, management, monitoring and evaluation - Integrated Municipal Information Systems (IMIS) be an integral part of investment
- **Capacity and knowledge enhancement** of stakeholders pertaining to CWIS approach should receive resolute focus
- Investment to focus on **financial resource planning** and management models for sustainability
- Community engagement model development for sustainability
- Support for **building ecosystem**, system change and **outcome-oriented mindset**

Everyone in the city has access to and benefits from sustainable sanitation services, and special focus on vulnerable, women and children

Ongoing Project and Pipeline Projects – CWIS

BANGLADESH

- **Ongoing**

- Third Urban Governance, Infrastructure Improvement Project

- **Pipeline**

- Second Coastal towns Environmental Infrastructure Improvement Project (2022)
- Integrated Urban Development Project (UGIIP-4) (2023)

NEPAL

- **Pipeline**

- Integrated water supply and sewage management Project (2023)