

Madhya Pradesh Urban Services Improvement Project – Additional Financing

Towards City-Wide Inclusive Sanitation Mainstreaming

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India – Madhya Pradesh Urban Services Improvement Project – Additional Financing Background Information

- Project period: Sept 2020-Sept 2027
- Total cost :\$385.7 million
 - ADB :\$270.0 million
 - Government :\$115.7 million



Output 1: Water supply and integrated storm water and sewage infrastructure improved.

Output 2: Institutions strengthened, and capacity developed.

Benefiting population: 1.6 million



Output – Water Supply Infrastructure Improved

Source



Treatment and SCADA



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

Clean water storage



Distribution System



House connection



Output: Integrated stormwater and sewage infrastructure Improved

Six Urban Local Bodes

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



MP-ADB-BMGF Collaboration for Mainstreaming City-Wide Inclusive Sanitation

Supported by Technical Assistance 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 	ELEMENTS CHECKLIST
✓ Area 1: CWIS Planning Tools - Evidence-based	 Area 2: Integrated Urban Planning - Coordinated with: water, drainage, solid waste management, multisectoral, and municipal governance 	 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 	HOW

OUTCOME

Steps of MPUSIPAF's CWIS planning :



CWIS Planning tools and assessment framework

Decision-making matrix						
Criteria	Sub-Criteria					
General Characteristics	Population, Settlement typology, Topography, Health/hygiene					
Sanitation Profile	Existing sanitation @HH level, Connection, Existing/future sanitation plan, Groundwater vulnerability					
Transport and Accessibility	Accessibility, Road shape & width, distance from the treatment facility					
Water Supply	Per capita water supply					
Socio-economic profile	Economic vulnerability, Social Acceptability					
Readiness and Sustainability	Organization Mandate, Operations framework, Local governance at wared level, Enabling Policy framework, Political will, Public finance, and Feasibility of private sector participation					
Climate change	Vulnerability mapping					



Pandemic

Multiplicity

CWIS Compliance Framework

Outcome : Equity-Safety-Sustainability

Function: Responsibility, Accountability, Resource Planning and Management

Integrated Municipal Information System Catalyzing Sustainability of CWIS Outcomes

IMIS Landscape

- Municipal GIS-based database and CWIS baseline of the town
- Strategic sanitation planning and decision-making tools for authorities
- Service delivery management
- Municipality's 'regular business process mapping
- Real time monitoring and evaluation – tax payments, service delivery, KPIs
- Link to external databases health, emergency response
- Plan infrastructure investment



Driving Efficiency, Responsiveness and Accountability of Municipalities

WHAT IMIS FACILITATES | CATALYSING CWIS OUTCOMES



- d) public health and environmental outcomes and
- e) pro-poor, gender intentional and socially inclusive targets.

	DATA REQUIRMENT	CWIS OUTCOME		CWIS FUNCTION		PLANNING	MANAGEMENT	M & E		
		SF	SB	EQ	RP	AC	RPM			
АТА	Administrative boundary							а	b	
	Building footprint		\checkmark				\checkmark	a, b, c	a, b, c, d	a,c,d,e
	Road network		\checkmark				\checkmark	a,b,d	a,c	
	Land use	\checkmark						a,b,d	a,c,f	
	Settlements (planned)	\checkmark						a,b,d	a,c,f	a,c
	Low Income Settlement	\checkmark					\checkmark	a,b,c,d,e	b,c,d,f	a,c,d,e
3AN	Contour	\checkmark	\checkmark				\checkmark	b		
JRE	Water logged area	\checkmark						b		
_	Area with environmentally sensitive activities	\checkmark						b,d	a,c	
	Soil	\checkmark					\checkmark	b		
	Water table	\checkmark					\checkmark	b		
	Population density	\checkmark					\checkmark	b	a, b	d
SANITATION	Storm water drainage network	\checkmark					\checkmark	b	а	а
	Sewerage network	\checkmark					\checkmark	a,b,d,e	a, b,c	a,d
	Containment	\checkmark						a, b, c,d,f	a, b, c, d	a,d,e
	Public services (PT/CT) with service information	\checkmark						a, b, c,d,f	a, b, c, d	a,d,e
	Emptying and Transportation Infrastructure and Services	\checkmark	\checkmark	\checkmark			\checkmark	a,b,c,d,f	a,b,c,d	a,b,d,e
	Treatment Plants	\checkmark					\checkmark	b	а	b, c
	Landfill site	\checkmark						b	а	
	City water supply areas						\checkmark	b		
REVENU E	Tax zone	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		a, b	a, b, c, d	b, d
	Service provider		\checkmark					a,b,c,d,e,f	a, b	а
SS	Fecal sludge data (Collection and Reuse) Public services	\checkmark						a,b	а	b
JSINE ERATI TA - IN	Public services							a, b, c,d,e,f	a, b, c, d	b,c,d,e
	Customer data inc. revenue							a,b,c,d,e	a,b,c,d	a,b,c,d,e
DA	Fecal sludge data (Collection and Reuse) Public services Customer data inc. revenue Customer feedback data		\checkmark					a,c,d,e	A,b,c,d	a, b, d
• -	Public service feedback	\checkmark	\checkmark				\checkmark	a,c,d,e,f	е	a, b, d

Note: **RP**-Responsibility, **AC**-Accountability, **RPM**-Resource Planning & Management, **SF**-Safety, **SB**-Sustainability, **EQ**-Equity

Evidence Based Planning – GIS based analysis and Strategy – Nagada City

Development of NSS suitability analysis

Primary Analysis

- Demarcated Areas Suitable for NSS/SS based on Population Density and Built up maps Prepared
- · Perform socio-economic Analysis draw preliminary Info on Suitability for NSS/SS

Secondary Analysis

Overlaying sewer Network Map and Identify Conflict areas

Tertiary Analysis

- Based on Climate and topography- develop Vulnerability map
- Strengthen Rationale for NSS/SS Systems





ACCELERATING INCLUSIVE SANITATION

Primary Analysis

- Demarcated Areas Suitable for NSS/SS based on Population Density and Built up maps Prepared
- Perform socio-economic Analysis draw preliminary Info on Suitability for NSS/SS

Secondary Analysis

· Overlaying sewer Network Map on Primary analysis Map and Identify Conflict areas

Tertiary Analysis

- Based on Climate and topography- develop Vulnerability map
- Strengthen Rationale for NSS/SS Systems



Secondary Analysis







Tertiary Analysis

Provides detailed strategies to integrated NSS component into the sanitation planning to ensure inclusive and resilient sanitation coverage.



2. MANAGEMENT

 ♥ OP1
 ♥ OP2
 ♥ OP3
 ● OP4
 ♥ OP5
 ♠ OP6

Convergence of IT, Mobile Technology, Municipal Business Process



Web-based App (IMIS) for desk office work



Mobile Apps for field assessment, survey and service delivery



Link external Interfaces For online Payment Apps of link to local or national databases



MONITORING & EVALUATION

Using a powerful Dashboard for Real-Time Status of Services









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Thank you!

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