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Sustainable Procurement ADB India Experience

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Why Sustainable Procurement Matters?





Public procurement drives markets and innovation



70–90% of lifecycle impact is locked in at design and contracting stage.



Circular approaches reduce waste, emissions, and lifecycle cost.



ADB aligns procurement with SDGs, Paris agreement and low-carbon development pathways.

Pillars of Sustainable Procurement at ADB



ENVIRONMENTAL



Solar panels, rainwater harvesting, low-flow fixtures, fly ash bricks, low-VOC paints, and green certification, waste circularity.

ECONOMIC



Life cycle costing, Building Management Systems (BMS)

SOCIAL



Inclusive spatial planning, community engagement, and safe working conditions.

INSTITUTIONAL



Defined agency roles, oversight mechanisms, and mandatory Bundled Contracts with O&M Responsibilities



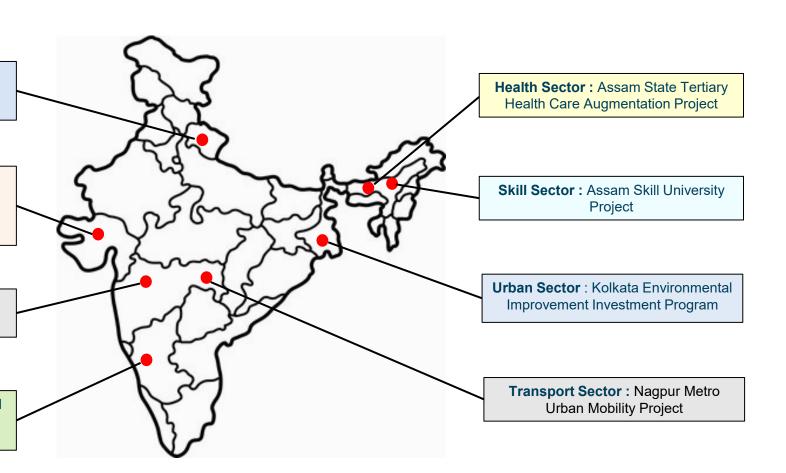
ADB India Experience

Urban Sector: Uttarakhand Integrated and Resilient Urban Development Project - Additional Financing

Public Sector : Promoting Research and Innovation through Development of Fintech Institute at Gujarat International Finance Tec-City Project

Transport Sector: Maharashtra Roads Connectivity for Inclusive Growth Program

Agriculture Sector: Karnataka Integrated and Sustainable Water Resources Management Investment Program



Urban Sector: Case of Embedding Low-Carbon Materials in Constructions



PROJECT BRIEF

Name: Uttarakhand Integrated and Resilient Urban Development Project - Additional Financing

Cost: \$200 m

Agency: Govt of Uttarakhand

Component:

Water Supply, Sanitation



OUTCOME

- 67,850 tons CO₂ emissions reduction
- \$55 m climate mitigation financing unlocking
- Nationally Determined Contributionclimate action Plan - Paris agreement
- Operational cost savings, increased asset life

INTERVENTION

- Use of Green Cement
- Use of Energy efficient electro-mechanical equipment (minimum IE3 performance compliant)

CONTRACT MODALITY

- Design-Build and Operate
- Whole Life Cycle Costs
- Merit Point Criteria

Urban Sector: Case of Digital-Driven Water Loss Management



PROJECT BRIEF

Name: Kolkata Environmental Improvement Investment

Program

Cost: \$100 m

Agency: Govt of West Bengal

Component:

24x7 Urban Water Supply



OUTCOME

- Improved water supply
- Improved surface water efficiency in select areas
- Enhanced decisionmaking through realtime data and predictive maintenance
- Financial Sustainability

- SCADA,
- NRW Measurement
- volumetric measurement and tariff determination,
- Design-build Contract modality
- Performance based maintenance Contract (Payment linked KPIs)

Transport Sector: Case of Reduced Demand For Raw Materials



PROJECT BRIEF

Name: Maharashtra Roads Connectivity for Inclusive Growth Program

Cost: \$400 m

Agency: Govt of Maharashtra

Component:

- All weather road
- Bridge
- Road and bridge information systems



OUTCOME

- Conservation of natural resources : Reduced demand for limestone, sand, clay
- Reduced embodied carbon
- Promotion of green construction supply chains

- Use of Fly ash and Ground Granulated Blast Furnace Slag (GGBS) in Concrete.
- Use of polymer fiber in concrete mix design
- Proposed monitoring through DLIs

- EPC contract modality
- 2-year Construction period + 10-year O&M
- Performance based Payment

Reduced urban air poliution

Transport Sector: Case Of Sustainability Of Public Transport



PROJECT BRIEF

Name: Nagpur Metro Urban

Mobility Project

Cost: \$200 m

Agency: Govt of Maharashtra

Component:

metro rail network



OUTCOME

- Lower GHG emissions
- Reduced air pollution due to shift in use of public transport
- Improved environmental sustainability, efficiency, safety

- Station design as per IGBC Green MRTS norms
- Rooftop solar panels on stations
- Energy-Efficient Rolling Stock
- Third party monitoring

- Design-Build and Operate Contract Modality
- Performance-Based contract (Payments linked to measurable outputs)
- Innovation and lifecycle cost-based evaluation

Health Sector: Case of Integrating DB (&CM) Contracting Approach to Sustainable Heath Infra



PROJECT BRIEF

Name: Assam State Tertiary Health Care Augmentation Project

Cost: \$398 m

Agency: Govt of Assam

Component:

- Upgrade existing hospital
- Upgrade Medical college



OUTCOME

- Improved healthcare service delivery through better infrastructure performance-Single-point responsibility
- Locally sourced construction materials to reduce the carbon footprint
- Comprehensive maintenance: Operational cost savings, increased asset life

- Solar panels, RWH, low-flow fixtures, fly ash bricks, GRIHA rating
- Energy-efficient medical equipment
- Reusable medical tools and linens

- Design-Build Contract Modality
- Performance-Based Specifications
- Life cycle costing
- Bundled Contracts with O&M Responsibilities
- Merit Point Criteria

Skill Sector: Case of Integrating Green Building Standards into Procurement



PROJECT BRIEF

Name: Assam Skill University

Cost: \$112 m

Agency: Govt of Assam

Component:

- University campus
- University management and operating systems
- Training resource



OUTCOME

- Promotion of green jobs and sustainability-oriented skill development
- Ecological potential of the area maximized
- Reduced energy and resource consumption
- Water conserved, waste Minimized

- Conducting green building studies and obtaining GRIHA rating
- Using Green refrigerant in Water chilling machine
- Climate considerations ensuring max light and ventilation

- Design-build contract modality
- Clear technical specifications couple with performance benchmarks.
- KPI linked SLAs

Public Sector: Case of embodied carbon monitoring pilot to reduce carbon footprint



PROJECT BRIEF

Name: Promoting Research and Innovation through Development of Fintech Institute at Gujarat International Finance Tec-City Project

Cost: \$23 m

Agency: Govt of Gujarat

Component:

Fintech Institute



OUTCOME

- Embodied Carbon-monitoring pilot project
- Reduced carbon footprint
- Inclusive and sustainable fintech ecosystem developed (Sustainable Vision 2030 for Gujarat)

- Carbon footprint measurement
- Comply with green building standards
- Climate mitigation measures to reduce emissions like automated waste collection systems, district cooling systems, WTP with zero discharge etc

- Performance-Based Procurement
- Payments linked to measurable outputs
- Design-build and Operate contract modality
- Innovation and lifecycle cost optimization

Agriculture Sector: Case of community procurement as a social enabler



PROJECT BRIEF

Name: Karnataka Integrated and Sustainable Water Resources Management Investment Program

Cost: \$150 m

Agency: Govt of Karnataka

Component:

- Modernization of irrigation infrastructures
- Minor canal and community area development works



OUTCOME

- Increased community
 livelihood securityEconomic opportunities
 to improve rural
 incomes
- Improved social inclusion and ownership
- Strengthened local community governance and participatory decision-making

- Minor canal and CAD works entrusted to CSOs (WUCS)
- Technical support from line agency (irrigation department)
- Capacity building of the community

- Community procurement modality
- Community procurement manual
- MoU signing with line aganecy.



Thank You!

