Market Consultation Questionnaire

Hybrid Annuity Model (HAM)

This questionnaire aims to gather your inputs on capabilities, preferences, and challenges related to adopting HAM and/or PPP (Public Private Partnership or Purchasing Power Parity) for the upcoming Rajasthan Urban Infrastructure Development Project Phase-V. The project encompasses areas such as water supply, wastewater collection systems, treatment and reuse, CETP, solid waste management, flood management, urban mobility and parking, and IT interventions, including command-and-control centers.

Your responses will help shape the evaluation criteria, contract packaging, risk allocation strategies, payment security terms, and Key Performance Indicator (KPI) frameworks. Further details about RUIDP Ph-V are provided in **Annexures 1 and 2** below.

Primary Information

Company Profile and Overview

Provide a brief overview of your company.

Full legal name of organization:		
Country of registration or incorporation or residence:		
Contact Name and email address:		
Company address:		
No. of years of operation:		
Website address:		
Contact No.		
Domain experience (Construction and O&M):		
(Please choose from the options below	<i>(.)</i>	
□ Water	☐ Wastewater treatment / Reuse	
□ CETP	☐ Urban mobility/parking	
☐ Flood Management /Drainage	☐ IT, command and control centers	
☐ Solid Waste Management		
Number of HAM and/or PPP contracts (> ₹50 Cr.) executed in the last 10 years:		

Questionnaire

Please choose your preferred response(s) from the options provided below. If applicable, you may select more than one option.

	Q1. Contract Packaging Approach Preference/s
	 □ Consolidated packages grouped by domain (e.g. Water / Wastewater) □ Packages covering multiple towns/cities □ High value works bid separately □ Itemized packages (smaller individual works)
	Preferred contract value per package:
	Q2. Mobilization advance (against submission of equivalent bank guarantee)
	Percentage □ 10% □ 15% □ 20% □ No mobilization advance required
	Mobilization advance payment on contract signing stage ☐ 100% upon contract signing ☐ 50% upon contract signing and rest upon 50% milestone work completion ☐ No mobilization advance required
	Should the mobilization advance be interest-free? ☐ Yes ☐ No
	Q3. Payment Security
	Which mechanism should be preferred for payment security? □ Escrow account □ Budget allocation □ Government guarantees □ Others (please specify):
	Should annuities be indexed to inflation? ☐ Yes ☐ No
•	What should be expected CAPEX from private entity? □ 40% □ 50% □ 60% □ Flexible, based on project □ Others (please specify):

Q4. Preferred Contract Tenure and risk

•	Please indicate your preferred contract tenure (construction and O&M period) □ 5–7 years □ 8–10 years □ 11–15 years □ 16 years or more
•	Who should bear risks related to land acquisition, force majeure, utility shifting? ☐ Government/ULB ☐ Contractor ☐ Shared responsibility ☐ Case-by-case basis
	Q5. Bid evaluation & Qualification
•	Which evaluation approach is most suitable? ☐ Merit-point criteria (technical + financial) ☐ Technical thresholds ☐ Primarily financial strength and past experience ☐ Any other approach encouraging wider participation
	Q6. Brownfield Project Complexities
•	How should takeover of existing assets be managed? ☐ Condition assessment and phased replacement ☐ Fixed % pipe replacement ☐ Immediate O&M transfer with parallel construction ☐ Case-specific strategies
	Q7. Performance Metrics & KPIs
•	Should outcome be converted into CAPEX KPIs and OPEX KPIs? ☐ Yes ☐ No
•	Should performance be linked directly to payment? ☐ Yes ☐ No
•	How confident are you to achieve the KPIs? □ 25% □ 50% □ 75% □ 100% □ Others (please specify):
•	Please provide comment below if project be made 100% performance-based (maximum of 50 words):

Q8. O&M Responsibilities

•	How should energy bills and consumables be reimbursed? ☐ At actuals ☐ Fixed sums ☐ Through annuity ☐ Employer responsibility only
	Q9. Taking over strategy
•	 In brown field project what would be your advice? □ Employer doing O&M until end of construction period and then hand over. □ Contractor taking over from day one, running it and maintain, and paid under the same contract □ Contractor taking over from day one, running it and maintain, and paid under a separate supplemental contract on collaborative O&M approach □ Others (please specify):
	Q10. Social & Environmental Safeguards
•	What level of responsibility should contractors have? ☐ Full responsibility for land acquisition and clearances ☐ Shared with employer ☐ Limited compliance to statutory requirements only ☐ Case-specific compliance
	Q 11. Main Challenges of HAM and/or PPP
	What major challenges do you expect in execution of the HAM/PPP projects? (Maximum of 100 words)
	Please explain your preference (Maximum of 100 words).

Background Note

Executing Agency: Government of Rajasthan

(Local Self Government Department)

Implementing Agency: RUDSICO

Project Management Unit: RUIDP (RUDSICO–EAP)

Proposed Funding: Asian Development Bank and World Bank

Purpose of this Note:

To provide a concise overview of the upcoming multi-sector pipeline and the HAM and/or PPP approach, enabling you to provide informed feedback through the attached questionnaire and the Jaipur market survey meeting.

Scope and Indicative Pipeline:

- (i) **Wastewater** (296 towns|~₹6,662 Cr): Sewerage networks, pumping, STPs/DEWATS, reuse mains; tertiary treatment and conveyance for productive reuse; automation/SCADA.
- (ii) Water Supply (80 towns | ~₹5,246 Cr):
 24×7 service, DMA-based NRW reduction, metering (AMI/AMR),
 WTPs/ESRs/pumping, GIS + hydraulic models, SCADA/digital twin.
- (iii) **CETP** (~₹870 Cr):

New & upgradation in key RIICO/industrial clusters; MBR/AOP/RO, OCEMS, ZLD where mandated, reuse pipelines, sludge/brine management.

- (iv) **Urban Mobility** (7 cities initial | ~₹2022 Cr): ITMS/ATCS, NMT & pedestrian works, junction upgrades, smart parking.
- (v) Flood Management & CCC/Heritage (56 towns | ~₹500 Cr + ~₹701 Cr): Priority drainage, pumps & sensors integrated with ICCC/CCC; heritage and tourism amenities.
- (vi)Solid Waste Management (32 towns |~₹650 Cr):
 Solid Waste Management, Legacy Waste, Transfer Station, Sanitary Land Fill,
 Decentralized Waste Management- Zero Waste Model

Contracting Approach under Discussion:

- HAM for large integrated packages in water, wastewater, CETP (design-build + 10–15 yrs O&M). Government grant during construction + availability-linked annuity with KPI deductions.
- PPP/DBFOT for revenue-bearing assets (e.g., parking, select tourism amenities); EPC for small/standalone works.
- Payment security: State budgeted escrow; independent verification (IVA) for KPI/M&V; price indexation framework (to be finalized).

Risk Allocation (indicative):

- Govt/ULB: land & right-of-way, statutory clearances, power connections, baseline data access, tariff policy/notifications.
- Concessionaire: design/construction, commissioning, O&M performance, staffing, spares, warranties, ESHS compliance.
- CETP specific: mix of user charges + annuity; influent quantity/quality risk sharing to be defined.

Key Performance Expectations (illustrative):

- Water: 24×7 continuity (where applicable), end-user pressure standards, NRW
 ≤15%, 100% BIS quality, 100% metering.
- Wastewater: coverage expansion, 100% STP compliance, reuse ≥40% by 2031 (phased), OCEMS for large plants.
- CETP: ≥95% OCEMS uptime, ≥95% compliance with SPCB norms, defined reuse volumes; safe sludge/brine handling.
- Mobility/ITMS: ATCS uptime SLA, journey-time reliability; smart parking occupancy & revenue KPIs.
- Flood/CCC: reduction in waterlogging points/duration; pump availability; real-time integration with CCC.

Digital & Resilience Requirements:

- GIS single source of truth calculated hydraulic models/digital twin, SCADA/IoT, AMI smart metering, data governance & cybersecurity.
- Climate- and disaster-resilient design; universal access & inclusion (GESI), safeguards (IEE/EMP, GRM).

Your Feedback (questionnaire prompts):

- 1. HAM commercials: Preferred grant–annuity mix; annuity tenor/frequency; indexation; mobilization/retention; payment security (escrow, guarantees).
- 2. Packaging & size: Single-sector vs multi-sector bundles; optimal capex/O&M sizes; geographic clustering.
- 3. Risk sharing: Views on demand/revenue risk in water reuse & CETP (influent quality/quantity), utilities interfaces, and relief events.
- 4. Performance & M&V: Practical KPIs and deduction regime; role/scope of IVA; data & telemetry requirements.
- 5. Digital stack: Integration effort for GIS–SCADA–AMI–CCC; openness to digital twin deliverables and O&M models.
- 6. Mobilization & O&M: Realistic timelines, local supply chain/skills, OEM obligations, spares, warranties.
- 7. Urban mobility/parking: Appetite for revenue risk (parking/advertising) vs. availability payments.

Proposed Geographic Grouping for Tranche 1 (illustrative, for packaging/market sounding):

- **Circle 1** North & West Rajasthan Highly urbanized: Bikaner; Jodhpur; Sikar; Jhunjhunu; Ganganagar; Churu; Pali
- Circle 2 Central Rajasthan Highly urbanized: Ajmer; Jaipur; Tonk Satellite towns: Malpura, Dudu; Sri Madhopur; Khatushyam Ji; Ajeetgarh; Kuchaman
- Circle 3 South & South-East Rajasthan Highly urbanized: Kota; Udaipur; Bharatpur; Banswara Satellite towns: Sangod; Ramganjmandi; Nadbai

Note: Lists are indicative; final packaging will be refined post market sounding/DPRs.

Acronyms:

- AMR Automated Meter Reading
- AMI Advanced Metering Infrastructure
- ATCS Adaptive Traffic Control System
- BIS Bureau of Indian Standards
- CAPEX Capital Expenditure
- C&D Construction and Demolition (waste/material)
- CCC Command and Control Centre
- CETP Common Effluent Treatment Plant
- DBFOT Design–Build–Finance–Operate–Transfer
- DEWATS Decentralised Wastewater Treatment System
- DPR Detailed Project Report
- DMA District Metered Area
- EAP Externally Aided Projects
- ESR Elevated Service Reservoir
- GESI Gender Equality and Social Inclusion
- GIS Geographic Information System
- GoR Government of Rajasthan
- ICCC Integrated Command and Control Centre
- IEE Initial Environmental Examination
- IoT Internet of Things
- IP (context: "price indexation framework") Indexation/Inflation Protection (use "price indexation")
- ITMS Intelligent Traffic Management System
- IVA Independent Verification Agency
- JV Joint Venture
- KPI(s) Key Performance Indicator(s)
- LAR Land Acquisition and Resettlement
- LSGD Local Self Government Department
- M&V Measurement and Verification
- MBR Membrane Bioreactor
- NMT Non-Motorized Transport
- NRW Non-Revenue Water
- OCEMS Online Continuous Effluent Monitoring System
- OEM Original Equipment Manufacturer
- OPEX Operating Expenditure
- PD/PIU/PMU Project Director / Project Implementation Unit / Project Management Unit
- PPP Public-Private Partnership
- RIICO Rajasthan State Industrial Development and Investment Corporation
- RUIDP Rajasthan Urban Infrastructure Development Project
- RUDSICO Rajasthan Urban Drinking Water, Sewerage and Infrastructure Corporation
- RUDSICO-EAP Rajasthan Urban Drinking Water, Sewerage and Infrastructure Corporation – External Aided Projects
- SCADA Supervisory Control and Data Acquisition
- SLA Service Level Agreement
- SPV Special Purpose Vehicle
- STP Sewage Treatment Plant
- ULB Urban Local Bodies
- WTP Water Treatment Plant
- ZLD Zero Liquid Discharge