National Institute of Urban Affairs
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Lodhi Road, New Delhi –110003

Request for Proposal for Selection of an Agency to prepare Urban River Management Plan (URMP) for Fifteen River Cities in the States of West Bengal, Bihar and Jharkhand (Package I)

Corrigendum/Addendum- II

Dated: 21-08-2024

Ref.: RFP No. NIUA/NMCG/2024-25/P: 166

S. No.	Reference Clause	Original paragraph	Revised paragraph
1	Tender issued on 26 July 2024 on NIUA website i.e. www.niua.in	Letter published on 13-08-2024 regarding "Extension of dates for replies of pre-bid queries and submission of RFPs by the bidders" on website i.e.https://niua.in/tenders	Please refer Corrigendum-I on NIUA website i.e. https://niua.in/tenders
2	Section 3 Pre-Qualification and Technical Evaluation Criteria Sl. No. 2 Technical Capacity (Pg 33)	The Consultant/s in its last 5 years of experience should have completed at least three projects each for (a) and (b), and at least two projects from across (c), (d) and (e) as mentioned below: a. Urban Planning and development – three projects compulsory b. River management/planning and development – three projects compulsory c. Urban waterbodies rejuvenation	The Consultant/s in its last **10 years** of experience should have completed at least three projects each for (a) and (b), and at least **three** projects from across (c), (d) and (e) as mentioned below: a. Urban Planning and development – three projects compulsory b. River management/planning and development – three projects compulsory c. Urban waterbodies rejuvenation d. Urban bio-diversity, ecology, landscape development

		d. Urban bio-diversity, ecology, landscape development e. Participatory approaches in urban planning The technical experience mentioned herein is the minimum eligibility criteria for completed projects for any consultant. Consultants may submit additional completed/ ongoing projects for claiming the Technical Capacity in accordance with Technical Evaluation Criteria.	e. Participatory approaches in urban planning The technical experience mentioned herein is the minimum eligibility criteria for completed projects for any consultant. Consultants may submit additional completed/ ongoing projects for claiming the Technical Capacity in accordance with Technical Evaluation Criteria.
3	Section 2. Instructions to Consultants E. Data Sheet (Pg 30)	The Proposals must be submitted no later than: Date: 23rd August 2024 Time: 17:00 Hrs IST	The Proposals must be submitted no later than: **Date: 6th September 2024** **Time: 17:00 Hrs IST**
4	Technical Evaluation Criteria for Selection of Consultants Sl. No. 3 Team Composition (Pg 37-39)	• **Urban Planning Expert (3 positions)** with more than 10 years of experience in urban planning and implementation projects, out of which 3 years' experience as Team Leader or 5 years as Deputy Team Leader in similar projects. Two of the urban planning experts should have at least 2 eligible assignments in Urban Planning /Development Consultancy as per eligible assignments mentioned in Sr. No 1 (a) Urban Planning and Development Experience. **Min. Qualification -** Graduation in Engineering/planning, Post-graduation in	• **Urban Planning Expert (3 positions)** with more than 10 years of experience in urban planning and implementation projects, out of which 3 years' experience as Team Leader or 5 years as Deputy Team Leader in similar projects. Two of the urban planning experts should have at least 2 eligible assignments in Urban Planning /Development Consultancy as per eligible assignments mentioned in Sr. No 1 (a) Urban Planning and Development Experience. **Min. Qualification -** Graduation in Engineering/planning/**geography/economics/architecture**, **and** Post-graduation in Engineering (civil/ environmental/ water resources), Urban / **Regional** /Environmental/ Infrastructure Planning, Water Resources Management or **any related discipline from a recognized institution.**

		Engineering (civil/ environmental/water resources), Urban/Environmental/ Infrastructure Planning, Water Resources Management or related discipline from a recognized institution	
		• **Urban Environment Expert (3 positions)** with more than 7 years of experience in urban infrastructure planning and design specially in aspects related to water supply, sewage management, storm water management, solid waste management etc. Each expert should have at least 1 eligible assignment in urban environmental planning/environmental infrastructure development consultancy as per eligible assignments mentioned above **Min. Qualification -** Graduate in environmental engineering/planning and Post graduate in urban environmental planning, public health engineering, environmental engineering or related discipline.	• **Urban Environment Expert (3 positions)** with more than 7 years of experience in urban infrastructure planning and design specially in aspects related to water supply, sewage management, storm water management, solid waste management etc. Each expert should have at least 1 eligible assignment in urban environmental planning/environmental infrastructure development consultancy as per eligible assignments mentioned above **Min. Qualification -** Graduate in **civil /** environmental engineering/ planning and Post graduate in urban environmental planning/ public health engineering/ environmental engineering/ **management** or **any related discipline from a recognized institution.**
		• **Urban Bio-diversity/Ecology Expert (3 positions)** with more than 7 years of experience in urban bio-diversity/ecology conservation projects, waterbodies/wetland rejuvenation projects, urban forestry etc. Each expert	• **Urban Bio-diversity/Ecology Expert (3 positions)** with more than 7 years of experience in urban bio-diversity/ecology conservation projects, waterbodies/wetland rejuvenation projects, urban forestry etc. Each expert should have at least 1 eligible assignment experience as mentioned in (c)

		should have at least 1 eligible assignment experience as mentioned in (c) Urban Waterbodies Rejuvenation or (d) Urban bio-diversity, ecology, landscape development. Cumulatively both (c) and (d) should be covered. **Min. Qualification -** Graduate in landscape architecture, forest management, life sciences and post-graduation in life sciences, forest management, environmental sciences, environmental management or related discipline	Urban Waterbodies Rejuvenation or (d) Urban bio-diversity, ecology, landscape development. Cumulatively both (c) and (d) should be covered. **Min. Qualification -** Graduate in **architecture**/landscape architecture/ forest management/ life sciences and post-graduation in life sciences/ forest management/ environmental sciences/ environmental management/ **biology/ zoology/ botany** or **any related discipline from a recognized institution.**
		• **GIS Mapping Expert (2 position)** with more than 7 years of experience in GIS/Remote Sensing based mapping and creating spatial outputs (thematic maps) for projects like master plan, city development plan, sanitation plan etc. **Min. Qualification -** Graduation in engineering/planning, Post Graduate in GIS and Remote Sensing, Urban Planning/Engineering with specialization in GIS based mapping	• **GIS Mapping Expert (2 position)** with more than 7 years of experience in GIS/Remote Sensing based mapping and creating spatial outputs (thematic maps) for projects like master plan, city development plan, sanitation plan etc. **Min. Qualification -** Graduation in engineering/planning/**geography and** Post-Graduation in GIS and Remote Sensing/ Urban Planning/Engineering from a recognized institution with specialization in GIS based mapping **or any related discipline from a recognized institution.**
		• **Lead Researcher (15 positions)** with more than 5 years of experience in urban/environmental planning projects like master plan, city development plan, city sanitation plan, environmental	• **Lead Researcher (15 positions)** with more than 5 years of experience in urban/environmental planning projects like master plan, city development plan, city sanitation plan, environmental management plan etc. Each lead researcher should have at least 1 eligible assignment experience as lead

		management plan etc. Each planner should have at least 1 eligible assignment experience as lead researcher as mentioned in (a) Urban Development and Planning projects and (e) Participatory approaches in urban planning and development projects **Min. Qualification -** Graduation in engineering/planning and Post-graduation in Engineering, Urban/Environmental/Infrastructure Planning or related discipline	researcher as mentioned in (a) Urban Development and Planning projects and (e) Participatory approaches in urban planning and development projects **Min. Qualification -** Graduation in engineering/planning/**architecture/geography/economics/ sociology** and Post-graduation in Engineering/ **management/** Urban/Environmental/Infrastructure Planning/ **Architecture/Urban Design** or **any related discipline from a recognized institution**.
5	Technical Evaluation Criteria for Selection of Consultants Sl. No. 1 Firm Credentials (Pg 34)	Experience in similar assignments and studies – Completed and Ongoing (on-going projects will be considered only if more than 80% professional fees/assignment value received). The consultant shall have completed a minimum of 8 eligible assignments – three compulsory assignments as per (a), three compulsory assignments as per (b) and rest two assignments from (c), (d) and (e) as per the following: (a) **Urban planning and development** experience - (three assignments compulsory) - The consultant shall demonstrate experience in assignments focused at urban planning projects at city scale like Master Plan, Development Plan, Sanitation Plan, Environmental Management Plan, City	Experience in similar assignments and studies – Completed and Ongoing (on-going projects will be considered only if more than 80% professional fees/assignment value received). The consultant shall have completed a **minimum of 9** eligible assignments – three compulsory assignments as per (a), three compulsory assignments as per (b) and rest **three** assignments from (c), (d) and (e) as per the following: **(a) Urban planning and development experience -** (three assignments compulsory) - The consultant shall demonstrate experience in assignments focused at urban planning projects at city scale like Master Plan, Development Plan, Sanitation Plan, Environmental Management Plan, City Investment Plan, City Vision Document, **Smart City Plan** for a minimum population of 1 lakh and above, and minimum project value of

		Investment Plan, City Vision Document for a minimum population of 1 lakh and above, and minimum project value of INR 25 lakhs for each project shall be considered for evaluation (Upto 3 projects: 250 marks, 4-6 projects: 350, More than 6 projects: 450 marks) (b) **River management/planning and development experience** (three assignments compulsory) - The consultant shall demonstrate experience in projects related to river-front development, drain rejuvenation, river linked livelihood (tourism, fishing, agriculture) or any other assignment having river as subject of study with a minimum project value of INR 25 lakhs for each project shall be considered for evaluation (Upto 3 projects: 250 marks, 3-5 projects: 350, More than 5 projects: 450 marks)	INR 25 lakhs for each project shall be considered for evaluation (**3 projects**: 250 marks, 4-6 projects: 350, More than 6 projects: 450 marks) **(b) River management/planning and development experience** (three assignments compulsory) - The consultant shall demonstrate experience in projects related to river-front development, drain rejuvenation, river linked livelihood (tourism, fishing, agriculture) or any other assignment having river as subject of study with a minimum project value of INR 25 lakhs for each project shall be considered for evaluation (**3 projects:** 250 marks, 4-6 projects: 350, More than 6 projects: 450 marks)
6	General		Baseline Assessment for preparing Urban River Management Plan (URMP) have been added as **Annexure 1.**
7	General		Brief on detailing of interventions towards preparation of an Urban River Management Plan (URMP) has been added as **Annexure 2.**
8	Section 7 (Pg 72)		Project implementation Schedule have been added as **Annexure 3** and Revised timeline for deliverables and payment schedule as **Annexure 4.**

Annexure – 1

Baseline Assessment for preparing Urban River Management Plan (URMP)

The consultants are required to prepare a baseline assessment report capturing the existing status and gaps with respect to each objective of the URMP Framework. Capturing the existing situation, on-going projects under implementation and planned projects for future implementation are critical while preparing the city's URMP.

The municipal boundary of the city shall be the basis of conducting the baseline assessment and identifying the projects/interventions to fulfil the gaps towards achieving the Ten URMP objectives. However, given that river management goes beyond the riverbank area, the URMP shall include both pan-city and riverbank specific actions.

The baseline assessment shall be mainly based on the secondary data available with relevant departments/open source data and primary data in the form of stakeholder consultations and primary data from ground mainly with regards to strengthening of the understanding of existing situation, identification and detailing of gap areas. The Consultants are not expected to undertake extensive topographical, hydrological, geological etc. studies as part of the baseline assessment.

The baseline mapping shall be in the form of GIS based spatial maps to represent existing situation and gaps observed for each of the URMP objective. The Consultants can use open source satellite image and toposheets for geo-spatial analysis and generate relevant maps on GIS platform.

The indicative outputs including the list of maps to be generated for each URMP of a city is mentioned in **Table 1.**

Table 1 – Indicative data checklist and expected outputs

URMP Objective	Indicative Outputs	List of Maps/Information (indicative)
1 - Regulation of Activities in Floodplain	• Summary/compilation of river-related policies and guidelines (e.g. state specific policies, regulations, NGT orders etc.) • Review of Master Plan/ Development plan/ building bye-laws - presence/ absence of river centric considerations • River floodplain analysis – permissible activities, areas of concern • Existing/ongoing/proposed projects in the river floodplain • Floodplain management score (to derive URM_{index}) - refer URMP framework • SWOT analysis	• **Base Map -** Development Authority/City Boundary, ward boundary, cantonment or any other special area, major roads and railway network, river, drains, waterbodies, wetlands, major green area/forests, regional level parks/large open areas, major landmarks) • **Urban Sprawl** map • **Activity mapping** within the flood plain • **Landcover change** within the flood plain
2 - Pollution Free River	• Existing situation of citywide liquid waste (domestic, commercial, industrial etc.) management – assessment of value chain including sources of generation, containment, conveyance, treatment, re-use and disposal of liquid waste, institutional framework for service delivery, ongoing and planned interventions in liquid waste management (scope, status, funding, implementing agency, timelines etc) • Existing solid waste management (domestic, commercial, religious etc.) – assessment of value chain including sources of generation, collection, transport, treatment, re-use and disposal of solid waste, institutional framework for service delivery, ongoing and planned interventions in liquid waste management	• **Wastewater treatment infrastructure** (sewer network, Location and capacity of STP and FSTP- existing & proposed, sewerage zones with network coverage) • **Sanitary infrastructure** (toilet coverage, location of Public toilet/community toilets, location of slums, hot spots etc.) • **Solid waste management** (location of landfill site, transfer station, dhalao, legacy dumpsites and major dumping sites) • **Monitoring of drains** (outfall locations-discharge and quality, monitoring

URMP Objective	Indicative Outputs	List of Maps/Information (indicative)
	• Hotspot analysis - Pollution hotspots along river/major drains/waterbodies from liquid and solid waste disposal perspective, outfall discharge locations • River water quality • Net Dissolved Oxygen Score (to derive URM_{index}) – DO of river at entry and exit locations (city boundary) (refer URMP framework) • SWOT analysis	locations, treatment mechanisms- e.g. bioremediation), • Pollution hotspots
3 - Rejuvenation of Waterbodies	• Create database of waterbodies (lakes, ponds, tanks, wetlands etc.) – location, area, natural/constructed, primary use, waterbodies with water/dry, water quality (if available), waterbody encroached (yes/no), abutting land use • Existing/ongoing/planned projects for rejuvenation of rivers/waterbodies • Institutional and governance framework for waterbodies management • Key issues/concerns with regards to waterbodies management • SWOT Assessment • Waterbody Revival Score (to derive URM_{index}) - refer URMP framework	• **Map of waterbodies** showing parameters as identified in the database
4 - Enhancing Riparian Buffer	• Understanding of the existing riparian buffer stretches along the rivers/major drains – detailing in terms of length and width of the riparian stretches, type of plant species, potential stretches for developing the riparian buffer etc. • Existing sectional profile of the riparian stretch – 3-4 locations representing different riparian profile • Existing/ongoing/planned projects for developing riparian stretches • Institutional and governance framework • SWOT Assessment	• **Riparian Buffer** map – existing riparian areas within the buffer zone along rivers/major drains as per the state norms

URMP Objective	Indicative Outputs	List of Maps/Information (indicative)
	• Riparian Buffer Score (to derive URM_{index}) - refer URMP framework	
5 - Increased Reuse of Treated Used Water	• Domestic used water generated, volume of treated used water at STPs under public domain, quality of treated used water (effluent) • Existing re-use practices – location, nature of use application, volume utilised, mode of conveyance • Identification of potential avenues for application of treated used water, demand estimation • State/city specific guidelines/policies/regulations/discharge norms/fit for purpose standards in context of reuse of treated used water • Ongoing initiatives/planned interventions for increasing the use of treated used water in various applications • SWOT assessment • Waste/used water Reuse Score (to derive URM_{index}) - refer URMP framework	• **Treated Usedwater Reuse Map** – location of STPs (installed capacities/volumes treated), mapping of areas of application of re-use (existing/potential), infrastructure for conveyance and use of treated usedwater
6 – Maximum Good Quality Return Flow	• Condition assessment of major drains – carrying capacity, discharge outfalls, discharge volume and quality • Current mechanism of cleaning of drains (institutional mechanism, cleaning frequency, regulatory measures e.g. penalties or initiatives focusing on behavioural change etc.)	• **Drainage map** (major and minor drains, hotspots, discharge, quality, outfall points etc.) • Urban Flooding Hotspots • Potential Groundwater recharge zones • Groundwater level trends (preferably last 10 years)

URMP Objective	Indicative Outputs	List of Maps/Information (indicative)
	• Urban Water Balance Scenario focusing particularly on groundwater sustainability (water demand-supply scenario, runoff through drains, wastewater treatment and disposal etc.) • Groundwater management (monitoring of groundwater levels and quality, trend analysis, groundwater recharge potential) • Encroachment of drains (including dumping of solid waste into drains) • Urban flooding scenario • Existing/ongoing/planned projects for drain management • SWOT assessment • Return Flow Score (to derive URM_{index}) - refer URMP framework	• Groundwater quality map
7 - Eco-friendly Riverfront Projects	• Situational analysis of riverfront areas (river frontage, number of ghats, details of ghats along with footfall and economic activities around, crematoria, boat landing points, dhobi ghats, riverfront parks, other commercial and recreational activities, eco-friendly riverfront scores of different ghats, miscellaneous (e.g. parking, toilet facilities, lighting, safety etc.), riverfront trails • Assessment of eco-friendliness of ghats and other riverfront areas • Ongoing/planned riverfront development projects • SWOT assessment • Eco-friendly Riverfront Score (to derive URM_{index}) - refer URMP framework	• **Riverfront Areas** map showing ghats, crematoria, cremation grounds, boat landing areas, parks, any other special feature (e.g. riverfront restaurants), recreation and commercial activities, etc. • **Proposed riverfront development areas** map

URMP Objective	Indicative Outputs	List of Maps/Information (indicative)
8 – Leveraging on the Economic Potential of the River	• Understanding of major river/waterbodies linked economic activities - agriculture, fishing, navigation, recreation (resort, water sports, bio-diversity parks, gardens), riverside markets (formal/informal), dhobi ghats, sand mining, river-based tourism (river cruises), religious places and others • Assessment of potential of various river linked economic activities as mentioned • Institutional and governance structure for activities along the river stretches • State/city policy, guidelines, regulations pertaining to development of river fronts and other economic linked activities • SWOT assessment • River Economy Score (to derive URMindex) - refer URMP framework	• **River Economy map** highlighting various river linked economic activities (as mentioned)
9 - River Sensitive Behaviour among Citizens **And** **10 - Engage Citizens in River Management Activities**	• Existing avenues of citizen engagement in river management and linked activities undertaken by the ULB • Understanding of organisations (NGOs, foundations, citizen groups, samitis etc.) engaged in management of rivers and associated eco-system, role and nature of engagement, engagement model with the ULB • Activities conducted by the ULB and other government departments (ghat and river-bank clean-up activities, sensitisation programmes, IEC activities, use of social and print media, government as well as CSR expenditure towards river management) • Large gatherings on river banks (e.g. melas) and their sustainability • Citizen Sensitization Score(to derive URMindex)- refer URMP framework • Citizen Engagement Score (to derive URMindex) -refer URMP framework	• Avenues of citizen engagement (event, nature of engagement)

Annexure 2

Brief on detailing of interventions towards preparation of an Urban River Management Plan (URMP)

Based on the baseline assessment as discussed above, the consultants are responsible for identifying projects/interventions to address the gaps as assessed for each objective of the URMP.

The nature of projects/interventions could be in the form of planning and policy measures, hard measures (infrastructure/riverfront projects) and soft measures like community sensitisation and capacity building programs etc. The projects needs to be prioritised over short, mid and long term based on the criticality of the issue as identified in the baseline assessment. The duration to be defined for short/mid/long term measures can be different for different river cities as per the technical and financial resources available with the respective city.

Please refer the URMPs of Kanpur, Ayodhya and Chhatrapati Sambhaji Nagar available on https://niua.in/rca/knowledge-resources/ for the nature of interventions. However, this is only for reference and not restrictive. Various other types of interventions may emerge from the river cities under the study.

The extent of detailing of each intervention, should be such that it can be taken up by the city for implementation (pre-DPR stage). The proposed interventions shall have site specific data and conceptual design that builds upon site specific primary assessments. For example under Objective 4 – Enhance Riparian Buffer, if stretches for providing the buffer are to be proposed then it should be based on field assessment including availability of actual land on site, land ownership, inventory of native species, feasibility of implementation from technical perspective etc. The degree of detailing for each intervention should be such that, if selected for implementation, then the same can be taken forward for DPR preparation. The consultants are not expected to take detailed on-site assessments like topographic surveys, soil testing, hydrological studies, total station survey etc.

The indicative (and not restrictive by any means) information to be captured under each proposed intervention is mentioned below:

1. **Problem statement/need for the project** – drawing direct linkages with gaps as identified during baseline assessment
2. **Description of the project/intervention** – type of intervention, newly proposed or convergence with ongoing/planned intervention, project feasibility, place and area of implementation, key project components, layout map highlighting project location, conceptual design and constituting elements, estimated CAPEX and OPEX costs etc.
3. **Implementation timeline** – short, mid, long term
4. **Key stakeholders responsible for planning and implementation of the intervention** – roles and responsibilities, implementation strategy, framework for long term sustainability.

5. **Funding avenues for the implementation** – national/state mission, city's own revenues, Private/CSR or any other funding avenue, financing model
6. **Expected outcomes/benefits from the project** – key beneficiaries (from social, environment and economic perspectives)

Annexure 3

Project implementation Schedule (Revised)

S No	Activity	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6				Month 7				Month 8			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	25	26	27	28
1	**Inception Phase** • City onboarding and introduction of the agency • Inception report submission • 1st URMP WG Meeting - Inception Meeting																																
2	**Baseline Phase** • Draft Baseline Assessment (Report/Presentation) • 2nd URMP WG Meeting - discuss baseline assessment • Incorporate feedback of the WG and finalise Baseline assessment																																
3	**URMP Phase** • URMP Interventions - identification and detailing (draft URMP) • 3rd URMP WG Meeting - to discuss draft URMP • Incorporate feedback of the WG and finalise URMP																																

Annexure 4

Timeline for submission of deliverables and Payment Schedule (Revised)

S. No	Activity	Deliverables	Payment Schedule
1	Mobilise team and prepare inception report	(a) Inception Report (digital format)	20% of the total contract value
2	Facilitate formation of the Multistakeholder URMP Working Group and Conduct 1st meeting of the working group (inception meeting)	(b) Formal letter from ULB on formation of the URMP Working Group (c) Minutes of the meeting approved by the URMP Working Group Chair	
3	Baseline assessment report (draft)	(d) Draft Baseline Report and Presentation (digital copy) for each city	
4	Conduct 2nd Multistakeholder URMP Working Group Meeting and Final Baseline Assessment Report	(e) Final Baseline Assessment Report and Presentation (in digital and one hard copy for each city (f) Minutes of the Meeting approved by the URMP Working Group	30% of the total contract value
4	Draft URMP	Draft URMP Report (digital copy) and Presentation for each city	20% of the total contract value
5	Conduct 3rd Meeting of the Multistakeholder URMP Working Group and prepare Final URMP Report	Minutes of Meeting of the 3rd URMP WG Meeting Final URMP Report (digital and one hard copy) and Presentation for each city	25% of the total contract value
6	Submission of raw data files, pictures, working files, GIS shape files etc.	All data in hard copy and digital format	5% of the total contract value

- All the payments shall be made only after verification and acceptance of the reports by NIUA.

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