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Revised

October 12, 2022

ELECTRONIC MAIL

To: 24 Pre-Qualified On-Call Contract Consultants of LA Sanitation

LA SANITATION ON-CALL CONSULTANT SERVICES CONTRACT ISSUANCE OF TOS SN-162 – HWRP PIPE GALLERIES INTEGRITY AND RESILIENCY ASSESSMENT

LA Sanitation (LASAN) is soliciting responses from 24 Prime Consultants on the Pre-Qualified On-Call List. Attached are details of required services for the Task Order Solicitation (TOS). To be considered responsive, Prime Consultants must attend a **mandatory** virtual pre-proposal meeting to be held on:

Date and Time: Wednesday, September 7, 2022, from 12:00 P.M. to 1:00 P.M.
Location: Virtual: meet.google.com/vbq-dhzb-gev
By Phone: (US) +1 513-816-0907 PIN: 529 232 675#
RAMP ID: See RAMP Opportunity ID: 203998

All questions regarding this TOS before the meeting must be submitted in writing via e-mail to:

- Mr. Bryan Johnson, bryan.johnson@lacity.org
- Ms. Wanda Epps, san.oncall@lacity.org

Please note that inviting your subcontractors to the meeting is optional.

The **revised deadline for proposal submission** is **Friday, October 28, 2022, before 2:00 P.M.** If your firm is interested in this TOS, please submit a proposal via e-mail by the indicated due date to the following LASAN staff:

- Mr. Bryan Johnson, bryan.johnson@lacity.org
- Ms. Wanda Epps, san.oncall@lacity.org

Thank you for your interest and we look forward to receiving your response to this TOS. Should you decide not to submit a proposal, a **negative response is requested** with a brief explanation of the reason. Your decision to not submit a proposal will not affect your eligibility for future work.

Sincerely,

Nancy Lantin, Sr. Management Analyst II
On-Call Contracts Representative
Administration Division
LA Sanitation and Environment

zero waste • zero wasted water

AN EQUAL EMPLOYMENT OPPORTUNITY - AFFIRMATIVE ACTION EMPLOYER

Recyclable and made from recycled waste



NL:wae

Attachment: Scope of Services

c: Master Files
 Consultants
 Timeyin Dafeta, LASAN
 Bryan Johnson, LASAN
 Thu-Van Ho, LASAN
 Hyginus Mmeje, LASAN
 Margarita Cruz, LASAN
 David Santos, LASAN

**City of Los Angeles
LA Sanitation and Environment (LASAN)**

On-Call Consultant Services Contract

Task Order Solicitation (TOS) SN-162 for the

HWRP Pipe Galleries Integrity and Resiliency Assessment

September 2022

1. Introduction

The City of Los Angeles' Hyperion Water Reclamation Plant (HWRP) is the main water reclamation facility serving the City of Los Angeles and 26 other contract cities and agencies in the Hyperion service area. It receives sewage from 4 million people living in its 600 square mile service area. HWRP is situated on 144 acres of beachfront property just south of Los Angeles International Airport. It was designed to accommodate both dry and wet weather days with a maximum daily wastewater flow of 450 million gallons per day (MGD) and a peak wet weather flow of 850 MGD. Due to water conservation efforts and water recycling at the two upstream water reclamation plants (Donald C. Tillman and Los Angeles-Glendale Water Reclamation Plants), its influent dry-weather flow has decreased from 350 MGD in early 2000s to the current averaged flow of 260 MGD.

HWRP has the treatment process consisted of preliminary screening, enhanced primary treatment, pure oxygen secondary activated sludge treatment, egg-shaped digesters for anaerobic digestion, solid bowl centrifuges for thickening and dewatering, biosolids storage and handling facilities, and advanced foul air handling and treatment systems. Thus, HWRP Operators and Process Control Engineers rely on information from the DCS (distributed control system) which relays process, equipment and status updates from the field onto a User Interface which allows personnel to quickly respond.

On July 11, 2021, HWRP experienced a major sewage spill into the Pacific Ocean, and nearly catastrophic flooding of the facility. Critical equipment and motor vehicles were severely damaged. In addition, the flooding of the plant itself caused electrical systems and pumps to go offline, which caused the plant to have reduced treatment capability for weeks, affecting discharge to the bay, causing odor complaints from neighboring communities, and impacting the water provided to the advanced treatment facilities at the West Basin Municipal Water District. In response to this event, an Ad-Hoc Advisory Committee, composed of two Board of Public Works commissioners and who brought together a group of thirteen Advisors with wide-ranging experience and perspectives. The Committee issued their findings report of the July 11 flooding incident on February 10, 2022. The report included their own analysis of consultant and LASAN information, and their recommendations to reduce future flooding risks, improve operations, and ensure that HWRP is well-positioned for its transition to a wastewater recycling facility by 2035. LASAN has incorporated these recommendations into the HWRP Flood Protection Action Plan.

To mitigate future emergencies and better prepare for unexpected conditions, HWRP has moved forward with the following recommended safety measures in the pipe galleries and any prone areas subjected to flooding: (1) analyze and determine if modifications of electrical systems (such as electrical equipment locations, motors, electrical panels, and high/medium voltage duct banks) and pumps can be made to prevent electrical systems and pumps from going offline, while still maintaining essential operations; (2) assessment of pipe (Victaulic) couplings for integrity, and (3) analyze and determine if modifications can be made to the pipe gallery doors and entryways and manhole seals, in an effort to make them waterproof, can be made to prevent water from traveling throughout the pipe galleries to other critical plant facilities during a flood that may be caused from the Headworks and/or other facilities (such as, Intermediate Pump Station (IPS), Clarifiers, EPP, etc.), to prevent electrical systems and pumps from going offline, and ensuring the ability to maintain essential operations.

HWRP Pipe Galleries

A complex network of pipelines and channels, known as the pipe galleries, extends from the north end of the Plant to the south end of the Plant, underneath street level, which houses pipes that convey sewage, return activated sludge (RAS), waste activated sludge (WAS), scum, cooling water, and high pressure effluent between the different processes of the Plant. Additionally, the pipe galleries also house drainage systems, ventilation systems, plumbing systems, instrument air systems, and some pumps.

The RAS system includes RAS flowmeters, 54 RAS pumps (normally, one pump is dedicated to each clarifier and the remaining two are standby units), nine 42-inch RAS discharge pipelines. The secondary scum system pumps scum collected from secondary clarifiers, which is then pumped by 36 horizontal centrifugal pumps (2 pumps per pair of clarifiers), and is measured by a 4-inch magnetic flowmeter in the pump discharge headers. The waste activated sludge system removes excess activated sludge through a 20-inch diameter pipe connected to a 42-inch RAS discharge pipeline, which is also measured by 18 12-inch magnetic flowmeters located between the clarifiers. (Figures 1, 2, and 3)



Figure 1 – RAS pumps



Figure 2 – RAS Discharge Line in Pipe Gallery



Figure 3 – Scum pumps in RAS pump room

Drainage systems relevant to the pipe galleries are provided to empty module trains taken out of service. Mixed liquor emptied from reactor modules is directed to reactor drainage pump stations, located in the pipe gallery tunnels, which are driven by four 30-hp pumps. Ventilation systems related to the pipe galleries provide continuous flow of fresh air within the various tunnel, control, and electrical facilities. Outside air is drained by gravity through the access stair located at the opposite end of each tunnel and is collected near the floor along the entire length of the tunnel in round ducts varying in diameter from 12- to 36-inches. (Figure 4)



Figure 4 – Pipe Gallery Tunnel Vent

Plumbing systems related to the pipe galleries consist of high pressure effluent (HPE) lines that are used for the filling of the reactor basins, facility wash-downs, and pump seal water systems. (Figure 5)



Figure 5 – Pipe Gallery Tunnel HPE Line

Instrument air systems related to the pipe galleries are used in the oxygen dissolution system, and encompasses pneumatically operated valves, LEL analyzers, and bubbler tubes. Instrument air is supplied by the plant-wide instrument air distribution system, through two 2-inch diameter instrument air headers, located in the pipe gallery tunnel between the reactor modules and the final clarifiers, which supply instrument air to the users through 1-inch lines running along the three pipe gallery tunnels for the reactors. (Figure 6)



Figure 6 – Two Parallel Instrument Air Lines (Green Color) in the Pipe Gallery

During the July 11 flooding incident, water began to overflow into the pipe gallery underneath the Headworks. Notable standing water lines on the face of the walls and pipes in the pipe gallery showed heights reaching four feet in some areas. From there, the flow spread to different areas of the Plant through the interconnected pipe gallery channels and impacting electrical systems, equipment, and pumps, in the pipe galleries. (Figures 7 and 8)



Figure 7 - Pipe Gallery underneath Headworks in B Street Tunnel



Figure 8 - Flood Waterline on Pipe Shell in Pipe Gallery underneath Headworks in B Street Tunnel

The following is a brief summary of the electrical system for the reactors and final clarifiers, which is supplied from the Switchyard Facility through two 13.8-kV high voltage switchgears that supply 4,800-volts to a Unit Substation (US) located within each electrical building, where power is then reduced to 480-volts and supplied to the five motor control centers (MCCs) located in each electrical building:

Electrical Building	(U.S.)	Motor Control Centers
1-2	59	MCC-59 and MCC-62
3-4	65	MCC-65 and MCC-68
5-6	71	MCC-71 and MCC-74
7	77	MCC-78
8-9	79	MCC-56 and MCC-79

From the MCCs, power is distributed to various electrical processes and non-process equipment.

2. Scope of Services

HWRP is seeking a qualified consulting firm to provide technical support in the identification, assessment, and evaluation of all electrical systems and equipment including motors, panels, and pipe couplings, as well as pumps in the HWRP pipe galleries, to propose best technologies and best practices for short term and long term planning for pump elevation placement, safe access to them, and for the rehabilitation or replacement of electrical systems and equipment, including but not limited to panels, pumps, pipes, voltage duct banks and system components related thereto, where their integrity has been compromised following the sewage flood in July 2021 and/or any future spill or emergency incident(s).

In addition, the qualified consulting firm will also provide technical support in the identification, assessment, and evaluation of all manhole seals and doors and entryways in pipe galleries, EPP, and other critical plant facilities, to propose best technologies for the installation of waterproof doors/submarine doors.

Develop an action plan for implementation; develop conceptual reports; to perform any additional tasks that may be required as part of the assessment, installation, and reporting, as directed by the LASAN HWRP Project Manager. Provide project management.

The consultant will evaluate and assess the existing systems and equipment in the HWRP Pipe Galleries and other critical facilities subject to flooding.

- Evaluate the electrical panels, high/medium voltage duct banks, piping, and pumping equipment for reliability. Assess the effectiveness of the equipment.
- Provide recommendations for rehabilitation or replacement of electrical panels, high/medium voltage duct banks, piping and pumping equipment in the pipe galleries.
- Evaluate the pipe gallery doors and entryways for reliability and flood susceptibility, and for an ability to replace with waterproof/submarine doors.
- Evaluate value versus risk of (1) replacing existing Pipe Gallery doors and entryways with waterproof/submarine doors or (2) installing new waterproof/submarine doors to separate pipe gallery sections, with the goal of substantially reducing or eliminating the flood susceptibility of the Pipe Gallery and increasing the flood isolation ability of various pipe gallery rooms.
- Determine any additional related needs to mitigate vulnerabilities, while improving the readiness, reliability, and resiliency of the HWRP Pipe Gallery and facilities related thereto.

Task 1: Project Management

Consultant will maintain proactive management across all project activities and facilitate project success by meeting the schedule, objectives, and LASAN's expectations for project results, and provide an avenue for communication between Consultant team, LASAN and all stakeholders.

- Project Direction and Management includes managing project, staffing, budget, schedule, quality assurance, and deliverable review.
- Project Initiation and Kickoff Meeting to discuss related topic items, health and safety, work breakdown structure, quality management, near-term deliverables, and communication protocols.
- Meetings include coordination meetings and conference calls with LASAN to discuss project status, progress, and resolution of any potential project issues. Consultant shall prepare draft agendas in advance of project meetings for review by LASAN and prepare meeting minutes within 48 hours of meetings completion and distribute to the team.
- Provide LASAN with at least monthly cost control plot of planned versus actual expenditure, including a summary of known or anticipated schedule delays and recovery plan to bring back schedule and cost in line, so that project will be completed on time and on budget.

Task 2: Identification, Assessment, and Evaluation of (1) Existing Pipe Gallery Equipment, inclusive of Electrical Panels, Pumps, and Pipes, and of (2) Existing Pipe Gallery Doors, Entryways, and Related Facilities

The consultant will evaluate the existing pipes, pumps, electrical panels, and voltage duct banks in the pipe gallery of HWRP.

- Assess the structural integrity of the supporting structures, the extent of corrosion to the piping and pumping systems, including valves, all low pressure and high-pressure piping, and isolation valve assemblies.
- Evaluate the existing electrical panels, voltage duct banks, and related instrumentation.
- Assess the structural integrity of the gallery doors and entryway structures, including supporting elements; and manholes.
- Identify any deficiencies and the need for rehabilitation, following the sewage flooding experienced in July 2021, to bring the equipment up to code, and into compliance with changing regulatory requirements, maintenance, and design restrictions.
- Provide recommendations for the modification or otherwise of the system to improve efficiency and safety.

Task 2 Deliverables: A technical report, in electronic format, describing the changes required to achieve long term reliability, operational efficiency and address the challenges hampering the smooth and safe operation of the system, under normal operating conditions and in light of sewage flood conditions.

Task 3: Identify and Evaluate Remedial Measures for (1) Addressing the Deficiencies in the HWRP Pipe Gallery Equipment: Electrical Panels, Pumps, and Pipes, and for (2) Addressing the Flood Susceptibility of the Pipe Gallery Doors, Entryways, and Related Facilities.

- a. The consultant will identify and evaluate new technologies and best practices for addressing the problems identified under Task 2. Discuss any mitigation measures for improving the reliability of the electrical system and the piping system, and pipe gallery doors and entryways. The new technology and best practices should consider the sewage flood conditions experienced in July 2021 and concerns resulting therefrom.
- b. The consultant will identify and evaluate new technologies and best practices for HWRP. This may include performing the following:
 - i. Testing new equipment
 - ii. Conduct pilot and benchmark studies if feasible
 - iii. Request and compare quotes from vendors
 - iv. Evaluate the feasibility of installing a new system and identify any physical modifications required for the electrical, piping, and pumping system prior to installation

Task 3 Deliverables: Draft and final report of analysis and quotes of new additions and changes to the system and/or improvements available.

Task 4: Propose Best Technologies for the Remedial Measures to (1) Address the Deficiencies in the HWRP Pipe Gallery Components: Electrical Panels, Pumps, and Pipes, and to (2) Address the Flood Susceptibility

of the Pipe Gallery Doors, Entryways, and Related Facilities

The consultant will propose new technologies for HWRP regarding Tasks 2 and 3. The final proposed technology will be evaluated and compared to other technologies. A cost for installing the proposed technology and implementing the best practices will also be provided, and if possible, indicating the time it takes to install and implement.

Task 4 Deliverables: Prepare and submit final Conceptual Report showing details of Alternative Proposals and recommend the most cost-effective alternative for implementation.

Task 5: Other Additional Tasks

Perform any additional tasks that may be required as part of the study as directed by the LASAN Project Manager.

3. COVID VACCINATION REQUIREMENT FOR CONSULTANTS/CONTRACTORS

For the purposes of this section the terms contractor and consultant are interchangeable and deemed to have the same meaning; and the terms subcontractor and subconsultant are interchangeable and deemed to have the same meaning.

Employees of Contractor and/or persons working on its behalf, including, but not limited to, subcontractors (collectively, "Contractor Personnel"), while performing services under this Agreement and prior to interacting in person with City employees, contractors, volunteers, or members of the public (collectively, "In-Person Services") must be fully vaccinated against the novel coronavirus 2019 ("COVID-19"). "Fully vaccinated" means that 14 or more days have passed since Contractor Personnel have received the final dose of a two-dose COVID-19 vaccine series (Moderna or Pfizer-BioNTech) or a single dose of a one-dose COVID-19 vaccine (Johnson & Johnson/Janssen) and all booster doses recommended by the Centers for Disease Control and Prevention. Prior to assigning Contractor Personnel to perform In-Person Services, Contractor shall obtain proof that such Contractor Personnel have been fully vaccinated. Contractor shall retain such proof for the document retention period set forth in this Agreement. Contractor shall grant medical or religious exemptions ("Exemptions") to Contractor Personnel as required by law. If Contractor wishes to assign Contractor Personnel with Exemptions to perform In-Person Services, Contractor shall require such Contractor Personnel to undergo weekly COVID-19 testing, with the full cost of testing to be borne by Contractor. If Contractor Personnel test positive, they shall not be assigned to perform In-Person Services or, to the extent they have already been performing In-Person Services, shall be immediately removed from those assignments. Furthermore, Contractor shall immediately notify City if Contractor Personnel performing In-Person Services (1) have tested positive for or have been diagnosed with COVID-19, (2) have been informed by a medical professional that they are likely to have COVID-19, or (3) meet the criteria for isolation under applicable government orders.

4. Term of Engagement and Cost Estimate

The term of engagement is nine months from the issuance date of the Notice to Proceed

with an option of 6-month extension. It is estimated that the cost ceiling for this TOS is approximately \$524,000.

5. Solicitation Schedule (Tentative)

- Issue Task Order SolicitationDate of Cover Letter.
- Receive Solicitation Responses.....As indicated in Cover Letter.
- Conduct Interviews if necessary.....6 weeks after issuance of TOS.
- Select and Negotiate.....8 weeks after issuance of TOS.
- Execute Task Agreement Form.....16 weeks after issuance of TOS.
- **Estimated Project Start Date: January 6, 2023**

6. Solicitation Response Requirements

Solicitation Responses shall not exceed twenty (20) pages, exclusive of cover, dividers and resumes. Solicitation Responses shall be submitted to the following LASAN staff via email, no later than 2:00 P.M. on the proposal due date indicated in the cover letter:

- Bryan Johnson, bryan.johnson@lacity.org
- Wanda Epps, san.oncall@lacity.org

Solicitation Responses shall include:

- Resume demonstrating that the candidate is capable of meeting the requirements of the Scope of Work. Resume shall include work experience history with dates, and references from past employers, owners, and/or organizations.
- Provide a proposed individual cost breakdown by tasks.
- Provide a breakdown of estimated time for completion of task.
- Proposed Billing Salary Rate Summary for the proposed candidate with all respective direct and indirect costs, markups, expenses, overhead rates and profit. (See Attachment A).
- MBE/WBE/SBE/EBE/DVBE/OBE subcontractors utilized and the percent utilization. (See Attachment A)

Note: Department of Public Works only recognizes:

- ☐ MBE/WBE certifications certified by City of LA – Bureau of Contract Administration (LABCA), LA County Metropolitan Transportation Authority (MTA), CalTrans, The Southern California Minority Supplier Development Council (SCMSDC), or Women's Business Enterprise National Council (WBENC)-WEST; and any member of California Unified Certification Program (CUCP); and
- ☐ SBE/EBE/DVBE certifications certified by LABCA or State of California – Department of General Services (CA-DGS)
- ☐ A firm can only be a MBE or WBE (not both) for a pledged amount
- ☐ A firm with multiple certifications is acceptable (i.e., a MBE/SBE/EBE/DVBE firm will fulfill 4 of 6 required categories)
- Provide a copy of valid MBE/WBE/SBE/EBE/DVBE Certifications of MBE/WBE/SBE/EBE/DVBE subcontractors utilized.
- **If a subconsultant needs to be added to Schedule A, use Mini Outreach**

Subconsultant Phone Log template uploaded to RAMP (Regional Alliance Marketplace for Procurement) for this TOS.

- Statement pertaining to the candidate's availability.

7. Selection Criteria

The selection team will evaluate the proposals with the following criteria:

- A. Consultant Qualifications, Experience, and Expertise
 - Proven capability in conducting scientific studies and analysis supporting water and wastewater facilities planning.
 - Capability and experience in providing the Scope of Services as demonstrated by the proposal.
 - Expert knowledge and work experience associated with understanding of the issues, options, and approaches related to the HWRP treatment process.
 - Knowledge and understanding of the LASAN's strategies and goals in integrated water facilities planning and related activities.
 - Expert knowledge and experience in facilities planning issues in relation to wastewater and recycled water, as well as City operations and practices.
- B. Personnel Qualifications, Experience, and Expertise
 - Expert knowledge and work experience associated with understanding of the issues, options, and approaches related to the treatment process.
 - Expert knowledge and experience in facilities planning issues in relation to wastewater and recycled water as well as City operations and practices.
- C. Technical Approach
 - Familiarity and understanding of HWRP treatment and operations.
 - Familiarity and understanding of HWRP goals, mission, and objectives.
- D. Project Management Approach
 - Ability to effectively and rapidly meet ongoing needs for the related stakeholder activities.
 - Experience and proven track record with local stakeholders.
- E. Competitive Fees and Costs
 - The value offered to the City considering cost in comparison to capabilities and experience of the candidates.
 - Direct and indirect costs, markups, expenses, overhead rates and profit will be considered.

8. Suggested MBE/WBE/SBE/EBE/DVBE/OBE Participation Levels

The City has set anticipated participation levels (APLs) for sub-consultants as follows: 18% MBE, 4% WBE, 25% SBE, 8% EBE, and 3% DVBE. Minority, women, small, emerging, disabled veteran owned and controlled businesses must be considered along with other business enterprises whenever possible as sources of sub-consulting services.

Note: Sub-consultants that are not listed on Consultant's current Schedule A - LIST OF POTENTIAL MBE/WBE/SBE/EBE/DVBE/OBE SUBCONSULTANTS (which includes any previously approved mini outreach) cannot be included in a

proposal and/or utilized without the performance of a mini outreach and approval of said outreach by LASAN. A Request to Add Sub(s) should be made at least 10 business days prior to proposal due date. If a consultant needs to add a sub to their Schedule A, please see the Mini Outreach Phone Log and Instructions to Add Sub document associated with this TOS and available for download within the Regional Alliance Marketplace for Procurement (RAMP). When a CONSULTANT receives from LASAN an approved Request to Add Sub(s), approved sub(s) then may be included in the proposal. **Exception:** If Request to Add Sub(s) is in the process of being approved by LASAN, CONSULTANT may submit a proposal that includes the yet to be approved sub. The Request to Add Sub(s) must have been submitted prior to the proposal due date deadline.

9. **Task Order Manager**

The LASAN On-Call Contract Representative: Nancy Lantin, Sr. Management Analyst II, Administration Division, (213) 485-2158.

The Task Manager for this designated TOS is: Bryan E. Johnson, Environmental Engineering Associate, Hyperion Water Reclamation Plant (HWRP), (310) 648-5826.

10. **Disclaimer**

The City may or may not decide to award any or part of this task order based on its sole convenience and shall not be responsible for any solicitation response costs.

ATTACHMENT A

COST REIMBURSEMENT - BILLING SALARY RATE BASIS															
Firm Name	Status	Last Name	First Name	Position	Raw Rate (\$/hr)	Approved Overhead Rate	Profit	Billing Rate (\$/hr)	Effective Date	Note					
Prime Firm	Prime														
Prime Firm	Prime														
Prime Firm	Prime														
Subcontracting Firm Name 1	MBE/SBE/EBE														
Subcontracting Firm Name 2	WBE/SBE/EBE														
Subcontracting Firm Name 3	MBE/SBE														
Subcontracting Firm Name 4	WBE/SBE														
Subcontracting Firm Name 4	SBE/EBE/DVBE														
Subcontracting Firm Name 5	SBE/EBE														
Subcontracting Firm Name 6	OBE														
SUMMARY															
Firm Name	Status	Fee	%Fee												
Prime															
Subcontracting Firm Name 1	MBE/SBE/EBE														
Subcontracting Firm Name 2	WBE/SBE/EBE														
Subcontracting Firm Name 3	MBE/SBE														
Subcontracting Firm Name 4	WBE/SBE														
Subcontracting Firm Name 4	SBE/EBE/DVBE														
Subcontracting Firm Name 5	SBE/EBE														
Subcontracting Firm Name 6	OBE														
Total Direct Labor Cost of the Prime															
Total Subcontract Expenses															
5% Administrative Fee (markup)															
Other Direct Costs (with no markup)															
Total Task Order Amount															
Total Subconsultant Participation															
Pledged	MBE	WBE	SBE	EBE	DVBE	OBE									
% of Total Task Order	%	%	%	%	%	%									
\$ Amount	\$	\$	\$	\$	\$	\$									