

**50404**

To: The Board of Acquisition and Contract

From: Thomas J. Lauro  
Commissioner of Environmental Facilities

Date: January 11, 2016

Re: Request for **Authority to Solicit Bids by Public Advertisement for**  
Contract No. **EF-1601**  
Inspection and Maintenance Service of Blowers at the Mamaroneck &  
Ossining WWTPs

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Attached for your consideration is a resolution, which, if approved by your Honorable Board, would authorize the Department of Environmental Facilities to solicit bids by public advertisement for the above referenced project. The work under this contract consists of providing all necessary labor, materials, parts and equipment required to perform the following:

1. Inspection and Class II level service of the single-stage centrifugal blowers at the Ossining Wastewater Treatment Plant (total of three units).
2. Inspection and Class I level service of the single-stage centrifugal blowers at the Mamaroneck Wastewater Treatment Plant (total of three units).

The Contract duration will be for two hundred and seventy (270) days.

At the Ossining WWTP process air blowers provide compressed air to the treatment process on a continuous basis, 24 hours per day, 365 days per year. The manufacturer Turblex/Siemens recommends a Class II service be performed on these blowers since they have not previously been serviced after many years of operation. The services to be performed on each of the three (3) blowers include the following:

- Replace inlet filters, check lube oil levels, calibrate inlet guide vanes,
- Inspect operation of all valves, blow-offs and surge detection,
- Verify all control signals, test limit switches and confirm surge valves are operating properly,
- Dismantle compressor air-end for inspection/cleaning/service,
- Inspect/clean variable vanes and check vane geometry
- Dismantle gear box, inspect gearwheels, bearings and seals
- Replace ball bearings on both shafts, inboard and outboard
- Inspection/demonstration of all valves, blow-offs and surge detection,

- Replace flex seals, o-rings, seal rings, gaskets, and shim set,
- Correction and optimization of multiple blower operation; and
- Alignment of equipment units upon reassembly

The blowers at the Mamaroneck WWTP provide compressed air to the treatment process on a continuous basis, 24 hours per day, 365 days per year. The manufacturer Turblex/Siemens recommends a Class I service be performed on the blowers after 18,000 hours of equipment operation or sooner if conditions dictate. The plant has recently experienced some issues with the blower operation and has reached the point where a Class I service is needed. The services to be performed on each of the three (3) blowers include the following:

- Replace inlet filters, check lube oil levels, calibrate inlet guide vanes,
- Inspection/demonstration of all valves, blow-offs and surge detection,
- Verify all control signals, test limit switches and confirm surge valves are operating properly,
- Dismantle compressor air-end for inspection/cleaning/service,
- Inspect/clean variable vanes and check vane geometry
- Replace flex seals, o-rings, seal rings, gaskets, and shim set,
- Correction and optimization of multiple blower operation; and
- Alignment of equipment unit upon reassembly

Undertaking the work described above will help to ensure the critical equipment at both facilities are operating at its peak efficiency. The blowers, which are no longer covered by a manufacturer's warranty due to their advanced age and time in service, are needed to maintain aeration in the process stream. Interruptions in service will adversely affect operation of the plant and put the County at risk of a discharge permit violation.

The objective of this contract is to obtain the services of a service provider with factory-authorized technicians who have the specialized tools and training to properly maintain the equipment.

Personnel from the Department of Environmental Facilities will manage and supervise the work performed by the selected Contractor. Verification by DEF is for payment and tracking purposes only and in no way relieves responsibility from the Contractor for completing the work as described herein. The Contractor will be responsible to comply with all applicable safety regulations and industry standards. This Contract is deemed to fulfill a public purpose as the services provided under this Contract protect the building and facilities owned by the Department of Environmental Facilities and enables the Department to carry out its basic mission to provide wastewater treatment and maintain satisfactory water and air quality.

Approval of the attached resolution is respectfully requested.

# RESOLUTION

Upon a communication from the Commissioner of Environmental Facilities, be it hereby

**RESOLVED**, that the Commissioner of Environmental Facilities be, and he hereby is authorized to solicit bids by public advertisement on the following Contract:

Contract No. **EF-1601**

Inspection and Preventive Maintenance Service of Single-Stage Centrifugal Blowers at the Mamaroneck & Ossining Wastewater Treatment Plants

and be it further;

**RESOLVED**, that adequate and sufficient security for the faithful performance of this contract shall be deemed to be receipt of a Performance Bond in the amount of 30% of the total contract amount, and in a form approved by the County Attorney. The Bond Underwriter or Surety must appear on the U.S. Treasury's listing of approved sureties (Department Circular 570) and all Sureties must be licensed to transact business in New York as a surety company; and be it further;

**RESOLVED**, that this advertisement for bids will state that Pursuant to Section 308.01 of the Laws of the County of Westchester, it is the goal of the County to use its best efforts to encourage, promote and increase the participation of business enterprises owned and controlled by persons of color or women - Minority Business Enterprise (MBE) and Women Business Enterprise (WBE); and be it further

**RESOLVED**, that such advertisement shall appear in the following:

**THE JOURNAL NEWS (Southern Edition)**

Fund	Dept	Major Program, Program & Phase or Unit	Object/Sub	Trust Account	Dollars
N/A					

Account to be charged/credited

Budget Funding Year (s) _____	Start Date: _____ End Date: _____
(must match resolution)	
Funding Source _____	Tax Dollars <u>100%</u> _____
	State Aid _____
	Federal Aid _____