



City of Miami Beach, 1755 Meridian Avenue, 3rd Floor, Miami Beach, Florida 33139, www.miamibeachfl.gov
PROCUREMENT DEPARTMENT
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Date: March 29, 2023
To: ALL INTERESTED PARTIES
FROM: Nestor Abarca
Procurement Contracting Analyst III
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Subject: Intent to Award Pursuant to Sole Source Exemption ITS-2023-399-NA for a High-Density Polyethylene (“HDPE”) Downstream Defender System needed to capture and retain sediments, oil, trash, and floatable debris during the King Tide occurrences from surface water runoff at four locations within the City of Miami Beach.

This notice is released pursuant to Section 2-367 (d) of the Miami Beach City Code. The purpose of this notice is to notify interested parties that pursuant to Section 2-367 (d), of the Miami Beach City Code, that the City intends to make a non-competitive award for the goods or services, as stated below, available only from a single source.

Goods or services required:

1. Currently, the Public Works Department is seeking to obtain four 2.55 M HDPE Downstream Defender System. Each DownStream Defender System shall include internals installed in a 2.55 M Diameter HDPE manhole reinforced for above-ground use. The 2.55 M HPDE DD is estimated to remove 95% of particles down to 175 microns at 1500 GPM.
2. The HDPE Downstream Defender Systems will be installed at four locations within the City of Miami Beach (“City”) flooding with as much as two feet of water due to high groundwater and rain entering the stormwater system. Some of these locations are in residential neighborhoods, and some are along major streets within the City. At each location, traffic flow is impeded, and pedestrian flow is unsafe and almost impossible.
3. **Treatment Performance.** The stormwater treatment system should be sized to meet the permit discharge requirements of a turbidity of no more than 29 NTU greater than the background turbidity in the bay and 40 mg/l TSS at the pumping flow rate required. The 2.55 M HDPE Downstream Defender has the treatment capabilities mandate by permit for the small footprint needed for space constraints.
4. **Flow Capacity.** Public Works has determined through experience that a pumping rate of approximately 1,500 GPM is required to prevent flooding in the areas of concern. It is therefore critical that any stormwater treatment system have a full treatment capacity with overflow of at least this flow rate or some of the stormwater will be discharged without treatment. The 2.55 M HDPE Downstream Defender can meet the treatment mandated by permit at 1,500 GPM flow rates.
5. **Materials of Construction.** Since the stormwater treatment system will be used above ground and moved every year, the materials of construction of the treatment system need to be very strong, resistant to heat and sunlight and at the same time light weight to be able to deploy onsite every 6 months. The Public Works Department has determined that the best material of construction for this site is HDPE because it meets all these criteria. The Downstream Defender is manufactures in HDPE material for these applications.
6. **No Power Required.** All sites do not have easy access to power. Bringing in temporary power or utilizing a separate generator would cause additional safety and logistic concerns and for this reason Public Works has determined that one of the constraints of the treatment system

is that it cannot require power. The 2.55 M HDPE Downstream Defender requires no power or moving parts for stormwater treatment.

7. **No Water Required.** Most of the sites do not have easy access to either potable or reuse water. Since temporary water lines would be difficult to implement and subject to vandalism and even to potential potable water system contamination, Public Works has determined that one of the constraints of the treatment system is that it cannot require an outside water source. The 2.55 M HDPE Downstream Defender requires no water for stormwater treatment.
8. **Vac Truck Accessible.** The Public Works Department owns several vac trucks which are currently used for other purposes including pumping out manholes, pumping, and maintenance of existing below-ground DownStream Defenders.
9. **Flexible and Mobile.** The treatment units will need to be put in place every year prior to the wet season and removed once the wet season is over. The units will then be moved to the Public Works Yard and stored until the next season. Additionally, the treatment systems will need to be relocated around the City from time to time as the need for pumping the stormwater changes within the City. They may also occasionally be used as a treatment for temporary dewatering on various projects throughout the City. All of these uses require a stormwater treatment that can be loaded onto a truck with a fork truck and moved around the streets of the City by Public Works service personnel without the use of a crane or other specialized equipment. The 2.55 M HDPE Downstream Defender is lightweight and easy to transport unlike other solutions available in the market.
10. **Footprint.** Several of the treatment systems will need to be located in major streets essentially taking up no more than a parking space and, in some cases, partially blocking a lane of traffic. For this reason, a small footprint is absolutely critical. A treatment system that is too large or requires excess maintenance would be a potential safety concern to motorists and to Public Works Staff. The 2.55 M HDPE Downstream Defender requires no more than half a parking spot. The DownStream Defender is the perfect device for this application because it is made from structurally re-enforced HDPE, resistant to heat and sunlight and is light enough to be easily moved in a temporary application for use during the wet season. The HDPE Downstream Defenders will be moved into position and will occupy approximately ½ of a parking spot for the wet season, then removed and put into storage during the off season. They are flexible enough to be moved to any application in the City where treatment is required by City staff with existing city equipment and could even be mounted on a small trailer and moved around the City on a regular basis if desired. Additionally, Miami Beach already has multiple successfully installed DownStream Defenders which have been on place for years, and Public Works is familiar with the performance and cleaning associated with them.

Supplier to be awarded: Hydro International

Reason for Sole Source: Hydro International has provided a sole source letter to the City of Miami Beach to certify that in the State of Florida, the 2.55 M HDPE Downstream Defender System is only offered directly through Hydro International and not through manufacturer representatives or distributors. Therefore, Hydro International is the only vendor that is able to provide the City with the 2.55 M HDPE Downstream Defender System. The Downstream Defender System offers the stormwater vortex separation device and is the only advanced vortex separator on the market without an internal bypass mechanism, meaning that 100% of the stormwater inflow entering the system is treated, ensuring maximum removal of pollutants. It is the only above-ground structurally re-enforced HDPE vortex separation stormwater treatment system available that can meet the treatment within the required footprint. The DownStream Defender is also the only HDPE above-ground vortex separator without a by-pass and with a large enough capacity and adequate performance to handle this project. The DownStream Defender is unique in that it provides a very high level of stormwater treatment in a very small above-ground footprint of about half of a car parking spot which is extremely important since some will be used on the main streets during tourist season.

Estimated value of award: \$209,600.00 (one-time purchase), but subject to budget appropriations by the City Commission.

THIS NOTICE IS NOT A REQUEST FOR COMPETITIVE OFFERS. However, any firm that believes it can meet the requirements stated herein may give written notification to the contracting analyst stated above within 7 calendar days from the date of this notice. Supporting evidence must be furnished in sufficient detail to demonstrate the ability to comply with the requirement(s) listed. Responses are due on or before Wednesday, April 5, 2023, at 3:00PM ET. A determination by the City of Miami Beach not to compete this proposed contract based on responses to this notice is solely within the discretion of the City of Miami Beach.

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