

DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

☒ New ☐ OTR ☐ Sole Source ☐ Bid Waiver ☐ Emergency Previous Contract/Project No. IB-00427
Contract
☐ Re-Bid ☐ Other LIVING WAGE APPLIES: ☐ YES ☒ NO
Requisition No./Project No.: RQMT1700030 TERM OF CONTRACT 0 YEAR(S) WITH 0 YEAR(S) OTR

Requisition /Project Title: 6,000 LB ELECTRIC HEAVY DUTY FORKLIFTS

Description: Purchase of (2) 6,000 lb. electric powered forklifts for DTPW. One-time purchase.

Issuing Department: DTPW Contact Person: Dan Wilson Phone: 305-884-7519
Estimate Cost: \$86,000.00
Funding Source: GENERAL FEDERAL OTHER
FTA

ANALYSIS

Commodity Codes:	<u>560-75</u>				
Contract/Project History of previous purchases three (3) years Check here <input type="checkbox"/> if this is a new contract/purchase with no previous history.					
	<u>EXISTING</u>	<u>2ND YEAR</u>	<u>3RD YEAR</u>		
Contractor:					
Small Business Enterprise:					
Contract Value:	\$	\$	\$		
Comments:					
Continued on another page (s): <input type="checkbox"/> YES <input type="checkbox"/> NO					

RECOMMENDATIONS

	Set-aside	Sub-contractor goal	Bid preference	Selection factor
SBE				
Basis of recommendation: <div style="border: 1px solid black; height: 30px; width: 100%;"></div>				
Signed: <u>Brian Webster</u>		Date sent to SBD: <u>7/24/18</u>		
Copy to: <u>oca@miamidade.gov</u>		Date returned to DPM: <div style="border: 1px solid black; width: 150px; height: 20px;"></div>		

SECTION 3.0 TECHNICAL SPECIFICATIONS

SPECIFICATIONS FOR ELECTRICALLY POWERED 6,000 LB. FORKLIFTS

3.0 Scope

These specifications define the requirements for the procurement of two (2) ready to use electrically powered forklift for Miami-Dade Transit. This forklift will be used at the William Lehman Rail Vehicle Maintenance facility located in Miami-Dade County. This environment includes grease, solvents, dust and ground debris. The electric forklift shall be a sit down type four wheel electric forklift equipped with a seat belt, grid style overhead guard, electronic monitoring system, and multi- functional dash display. The unit shall meet all applicable OSHA and ANSI standards and shall be UL approval Type E.

3.1 Minimum Requirements

The forklift shall be equipped with all of the manufacturer's standard equipment and meet the following supplemental minimum requirements. Dimensional drawings of the proposed forklift along with a lift chart plainly showing that the unit can perform the work should be furnished by vendor with their bid submittal.

3.1.1 Capacity and Performance

The unit shall be a forklift with a minimum 6,000 lb. lifting capacity at a 24 inch load center at 130 inches. The forklift shall have a rated capacity capable of lifting at least 4,000 pounds at a 30 inch load center using: one (1) the 60 inches forks and one (1) with 48" forks described in section 3, Paragraph 3.1.3. All ratings on the machine and in its brochures and brochures should acknowledge these minimum lift standards at the cited weight, load centers and fork height.

Travel speed shall be 8 mph minimum fully loaded on a hard smooth level surface.

3.1.2 Masts

The mast shall have a minimum tilt capability of 10 degrees forward and 5 degrees rearward. The mast lowered (overall height with mast closed or lowered) shall not be greater than 89 inches.

3.1.3 Forks

One (1) forklift is to be provided with sixty inch (60") long forks and be constructed of heavy duty forged steel, and meet or exceed maximum load capacity of the unit.

One (1) forklift is to be provided with forty eight inch (48") long forks and be constructed of heavy duty forged steel, and meet or exceed maximum load capacity of the unit.

Mast shall be furnished with adjustable fork carriage with provision for locking forks in position to prevent the forks from drifting on the carriage during operation.

The forklift is to be furnished with integral side shifter and it shall have the capacity to shift forks at least 3 inches left and right.

3.1.4 Chassis

The forklift shall have a chassis with frame and suspension designed to meet the specified performance and capacity requirements as recommended by the manufacturer to accommodate this application. Materials used for structure and body shall be inherently corrosion resistant or adequately protected from corrosion. The load rating for axles and tires shall be no less than the gross vehicle weight.

3.1.4.1 Dimensions

Forklift dimensions shall be of industry stand for electrically powered 6,000lb forklift.

3.1.4.2 Power Plant

Power plant shall enable the electric forklift to meet the specified performance and capacity requirements. Power plant requirements are based on drive voltage 36/48 volts.

3.1.4.3. Electrical System

The electric package shall be capable of meeting the forklift's manufacturer performance and capacity requirement for the weights and tasks specified. The electric forklift shall be powered by an AC drive control with a 36/48-volt battery voltage. The AC traction motors shall be brushless, the unit shall have an on/off key switch and a power disconnect switch.

The unit shall be equipped with LED headlights, LED tail lights and LED stop lights mounted on grid style overhead guard, and LED amber strobe light located as recommended by the manufacturer for this application.

A multi- functional dash display for quick access to forklift functions, diagnostic and troubleshooting shall be provided. It should include battery state of charge, and hour meter.

A 36/48 volt, 1105 Amperes Hour Capacity (AHC) battery with 3-phase, 480 Volt charger shall be provided. Battery shall allow a minimum of 8 hours working hours per battery charge and the battery charger shall be UL approval.

3.1.4.4 Hydraulic System

Manufacturer's standard hydraulic system equipped should be equipped with feather type controls to reduce hydraulic pressure spikes and shocks and vibration levels. The AC hydraulic motors shall be brushless.

3.1.4.5 Brakes

The forklift shall be equipped with service brakes and automatic parking brake recommended by the manufacturer for this application.

The forklift shall be provided with regenerative braking system activated when the accelerator pedal is released.

3.1.4.6 Steering

Manufacturer's standard power steering system is required. Steering wheel shall be provided with wheel spinner knob.

3.1.4.7 Wheels

The unit shall have solid tires for this application.

Wheels shall be removable without disturbing the wheel bearings.

3.1.5 Safety

Unit shall have:

- Horn and back-up alarm.
- Controls that return to neutral when released.
- A bracket mounted ABC fire extinguisher in a location easily accessible to the operator.
- Side view mirrors

3.1.6 Paint Color

Yellow

3.1.7 Manuals

Two (2) sets of parts, operation, and maintenance manuals shall be provided with each unit delivered. Electrical schematics specific to the units delivered.

3.1.8 Training

The awarded bidder will be required to provide a minimum of 1 training session for electric forklift operation and 1 training session for electric forklift maintenance and repair. Typical size of 10 participants, including DTPW Training Instructor, per training session at a location and time designated by DTPW will be identified after contract award. Each training session shall be at least four (4) hours long.

An exact copy of the training presentation, in Microsoft PowerPoint, shall be provided to the DTPW training manager, at no additional cost, prior to the first training session, as a permanent record and for future usage by DTPW.

3.1.9 Warranty

The award bidder shall supply, subsequent to award, and be responsible for the equipment warranty. The equipment shall have a warranty free of deductibles with no less than the following industry defined coverage:

- Twelve months (12) or 2,000 hours full forklift
- Twenty- four months (24) or 4,000 hours on the power train
- Extended Warranty: 5 years/8,000 hours on major components, parts only

3.1.10 Pricing

Prices offered shall include all equipment as specified including freight, manuals, training, warranty, and dealer preparation for service.