

ISSUING DEPARTMENT INPUT DOCUMENT

CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

New
 OTR
 Sole Source
 Bid Waiver
 Emergency
 Previous Contract/Project No. None

Contract
 Re-Bid
 Other – _____
 LIVING WAGE APPLIES: YES NO

Requisition No./Project No.: 425137_
 TERM OF CONTRACT 10 YEAR(S) WITH 1 YR YEAR(S) OTR

Requisition /Project Title: Wheel Truing Machine

Description:

Purchase, installation, and employee training of an Underfloor Wheel Truing Machine (Machine) as a turn-key ready to use project. Awarded Bidder shall provide all labor, materials, permits, and equipment required to remove and relocate the existing Machine and install the new Machine. A 5-year basic and a 5-year extended warranty will be included in the contract.

Issuing Department: DTPW
 Contact Person: Wendy Morales
 Phone: 786-469-5319

Estimate Cost/Value: 7,500,000.00
 GENERAL
 FEDERAL
 OTHER PTP 100%

Funding Source:

ANALYSIS

Commodity Codes:	559-91			
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):
 YES
 NO

RECOMMENDATIONS

	Set-Aside	Subcontractor Goal	Bid Preference	Selection Factor
SBE				

Basis of Recommendation:

Bid Preference - no local manufactures of this equipment in MDC

Signed: J. Lee	Date sent to SBD: 7/27/22
	Date returned to SPD:

SECTION 2

ADDITIONAL/SPECIAL TERMS AND CONDITIONS

2.1 PURPOSE

The purpose of this solicitation is to award a contract to a single Bidder for the purchase, installation and employee training of an Underfloor Wheel Truing Machine (Machine) as a turn-key ready to use project. Awarded Bidder shall provide all labor, materials, permits, and equipment required to remove and relocate the existing Machine and install the new Machine.

2.2 TERM OF CONTRACT

This Contract shall commence on the first calendar day of the month succeeding approval of the Contract by the Board of County Commissioners, or designee, unless otherwise stipulated in the Purchase Order or Notice to Proceed issued by the Department of Transportation and Public Works, and shall remain in effect until such time as the goods are delivered and/or services, including the 5-year basic and 5-year extended warranties, are completed and accepted by the County's authorized representative.

2.3 OPTION TO RENEW

Intentionally omitted

2.4 PRE-BID CONFERENCE AND SITE VISIT (RECOMMENDED)

A pre-bid conference and site visit will be held on XXXday, XXXX XX, 2022, at 9:00AM (Local Time), at the Lehman Center Maintenance facility, 6601 SW 72 Ave, Miami, Florida 33166. The conference shall be held on the maintenance shop floor near the existing wheel truing machine by maintenance track #1 North bay door to allow for social distancing requirements.

It is highly recommended, but not mandatory, that a representative of interested firms attend. The meeting will be publicly noticed and open to the public, and therefore exempt from "Cone of Silence".

Bidders are advised to examine the solicitation documents and site conditions carefully and be thoroughly aware of all requirements that may in any manner affect the work required. No additional allowances will be made because of lack of knowledge of the terms, conditions, specifications and site conditions. Bidders should bring the solicitation document to the conference as additional copies will not be available. Representatives from the County will be present to discuss this solicitation.

2.5 METHOD OF AWARD

Award of this contract will be made to the responsible Bidder with a responsive bid whose offer represents the lowest price for as described herein, meets the minimum requirements below, and all specifications in Section 3 of this solicitation.

2.6 QUALIFICATION CRITERIA

Bidders must meet the following requirements to be considered for award:

2.6.1 Bidder shall be regularly engaged in the business of manufacturing and installing Underfloor Wheel Truing Machines similar to the machine described herein. Bidder shall provide three (3) **different** references from customers to whom the Bidder has provided similar turn-key machine(s) described throughout this Solicitation. The three references shall be in the form of a letter, on company letterhead, detailing the type of machine, installation, and overall project, signed and dated by an authorized employee of the reference. **In lieu of the references from the Bidder or Bidder's Subcontractor, the County will consider the references from Bidder's key personnel in accordance with Resolution No. 1122-21.**

The references should include the customer's company name, and the contact's name, title, address, telephone number, and e-mail address of the contact person who can verify that the **Bidder/key personnel/Subcontractor** has successfully provided the services **(Section 4: Bid Submittal – Required Criteria)**. These references shall ascertain to the County's satisfaction that **the Bidder/key personnel/Subcontractor** has sufficient expertise in the industry and its firm is properly equipped to perform the required services.

2.6.2 Bidder shall be the manufacturer and installer of the machine offered. No offers from third parties will be considered. Proof shall be in the form of a letter on company letterhead stating the bidder is the manufacturer and installer of the machine offered **(Section 4: Bid Submittal – Required Criteria)**.

2.6.3 Bidder shall assign a competent company representative who is cognizant of industry standards and is authorized to discuss matters pertaining to the resultant contract, to provide the County with support and information. The company representative shall be able to communicate with the County and shall have full authority to act on behalf of the Bidder on all matters related to the resultant contract. Bidders are required to provide their designated company representative's name, phone number, and e-mail address. All resources shall be available twenty-four (24) hours a day to provide immediate support and expedite services **(Section 4: Bid Submittal – Required Criteria)**.

The County reserves the right to request additional information during evaluation to determine the Bidders' qualification.

2.7 PRICES

If a Bidder is awarded a contract as a result of this solicitation, the price offered by the Bidder shall remain fixed and firm during the term of contract. The price offered shall include, but not be limited to, all regulatory and other fees, all permits, applicable taxes, all cost for delivery, assembly and setup, field testing, and technical, maintenance, and operational training for proper use of all equipment and accessories purchased herein, and any and all costs required to deliver a ready-to-work System as described in this solicitation.

2.8 METHOD OF PAYMENT

The County will provide progress payments to the awarded Bidder as listed below:

- 2.8.1 After the machine is delivered – 25%
- 2.8.2 After installation, final set-up and testing – 55%
- 2.8.3 After all training is completed and all documentation is delivered – 20%

2.X DELIVERY AND DOWN TIME

Delivery, installation, and final testing shall be no more than 18 months after Notice to Proceed and/or Contract Award. Maximum down time between removal of the existing machine and installation/operation of the new machine shall not exceed 90 days (the 90 day "downtime" timeclock begins when the existing machine is removed and stops when the new machine is installed and operational).

2.X LIQUIDATED DAMAGES FOR DOWN TIME

Liquidated damages of \$3,500/day shall be applied if down time specified above exceeds 90 days.

2.X WARRANTY

The awarded Bidder shall provide a minimum 5-year basic warranty, covering parts, labor, and all required servicing, which shall start upon final acceptance by the County. An extended warranty covering parts and labor shall be provided for a minimum of 5 additional years for major components such as castings, beams, roller systems, main drive components, and hydraulics.

The awarded Bidder shall be capable of providing repair action for warranty matters within 24 hours of notification at any time from DTPW, with qualified technicians whenever the machine is out of service.

2.X OMISSION FROM SPECIFICATIONS

The apparent silence of the specifications and any addendum regarding any details or the omission from the specifications of a detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail, and that only new materials and workmanship of first quality are to be used. All interpretations of this specification shall be made upon the basis of this agreement.

SECTION 3

SCOPE OF WORK/TECHNICAL SPECIFICATIONS

3.1 SCOPE OF WORK

Miami-Dade Department of Transportation and Public Works (DTPW) new Underfloor Rail Vehicle Wheel Truing Machine (milling type machine) will be used to support and profile the rail wheels of existing Budd Fleet in addition to profiling the rail wheels of the newly acquired fleet of 136 Hitachi Rail Vehicles.

The rail vehicles are heavy rail married pairs, weighing approximately 100,000 lbs./vehicle, using 28-inch wheels with disc brakes. The William Lehman Facility currently employs an underfloor Hegenscheidt single wheel set truing machine that will be replaced. Awarded Bidder shall provide all labor, material and equipment required to remove and relocate the existing Wheel Truing Machine located and the installation site of the new Wheel Truing Machine. The Awarded Bidder will have access to an existing overhead crane, which will be used to transport the existing machine from its installed location to an entry point at the maintenance shop, located at Lehman Center Yard, 6601 NW 72nd Ave, Miami FL 33166. The Awarded Bidder shall bear responsibility for disposing of or placing all existing Wheel Truing Machine Components in the trash dumpster area located approximately 500 feet north of the maintenance shop. Note: DTPW Warehouse staff will arrange for county auction and pick up of equipment once placed in the dumpster/disposal area.

The new machine shall be an automatic underfloor Computer Numerically Controlled (CNC) milling machine, capable of lifting, measuring, and machining one axle, both wheels simultaneously. This machine will be operated via a central control panel which allows continuous access to all machine functions in an optimal and protected Operator position.

The installation will be a turn-key effort.

3.X CODES AND STANDARDS

The manufacturer shall comply with and adhere to all state, local and federal codes, standards, and permit requirements. The manufacturer shall obtain the necessary permits and comply with all Miami-Dade County codes and regulations for installation of the machine. Note: permits are not required for removal of old machinery equipment.

3.X LIFE CYCLE

The machine must be manufactured to last for thirty years. The manufacturer must specify all maintenance requirements and intervals.

3.X QUALITY ASSURANCE

Within 90 days after the Notice to Proceed (NTP) the Contractor shall submit and maintain a quality assurance program that shall be made available to DTPW for review and approval. Records and standards which provide evidence of quality, accountability and traceability shall also be provided by the Contractor within 90 days of the NTP.

3.X SPARE PARTS AND TOOLS

As part of the contract, the Contractor shall provide the following lists:

- 3.X.X A recommended spare parts list for parts that are critical to machine operation, and that must be in possession by DTPW in order that the machine will not be out of service for extended periods of time.
- 3.X.X A recommended list of tools required for repair, maintenance, testing, and calibration of the equipment.
- 3.X.X A recommended list of wear parts and consumables for a two-year period.

3.X TRAINING

The Contractor shall provide training at DTPW's rail facility for seven (7) Machinists, one Supervisor, and one DTPW Instructor. The training will consist of classroom theory and systems operations, as well as on-the-job training. Each class shall have a minimum duration of 16 hours and classes must be flexibly arranged throughout a 3-week period between the hours of 6 a.m. to 6 p.m. to accommodate all 9 employees.

The classroom training will involve at least two separate classes with no more than half of the Machinists in each class. The on-the-job training will consist of two Machinists at one time and will operate the machine until the Contractor determines that the Machinists have an acceptable understanding of all aspects of the machine.

In addition, extended on-the-job training will be provided to all personnel until they reach a Contractor's certified level of machine operation.

On-the-job training will also be provided in two groups for machine maintenance.

3.X MANAGEMENT PLAN

The machine contractor shall submit a Project Management Plan to DTPW for review and approval no later than 30 days after Notice to Proceed (NTP) is issued. The Plan shall present personnel and organization, controls, planning and schedule for the project. The Plan shall include but not be limited to the following:

- 3.X.X Identification of the project manager (not necessarily a full time equivalent), Engineer, Field Service Engineer/Manager at DTPW site. Any change in approved project personnel shall require DTPW approval prior to execution of the change.
- 3.X.X Project control methodology including warranty, Turn key Project schedule starting at NTP and covering design, manufacturing, factory testing, delivery, installation, acceptance testing, safety inspection and certification.

3.X DRAWING CONTROLS AND REVISIONS

- 3.X.X Subcontractor or management plan for "subs" that has contracts above \$200,000.
- 3.X.X Component serial and part numbering plan
- 3.X.X Shipping and rigging plan giving shipping and insurance carriers by name and duration of transit.
- 3.X.X Procedure for allowing review and approval by DTPW for any design or machine configuration change or modification.

3.X PROJECT SCHEDULE

Within 30 days after NTP in accordance the management plan and other sections of the contract, the contractor shall submit a project schedule that identifies all interim milestones such as but not limited to: NTP, key design stages (if necessary), order of major components, manufacturer, submittals of manuals, training manuals, final assembly drawings, parts catalogs, factory testing, shipping, delivery and installation, accepting testing, safety inspection and certification. The schedule shall be in Primavera or MS Project.

3.X INSTALLATION

Contractor shall be responsible for ensuring that the new wheel truing machine fits and functions properly with the existing structure. The Contractor shall make minor modifications to the existing structure as necessary without compromising it along with the approval of DTPW project manager. Drawings/plans, along with proposed changes to the existing structure must be submitted and approved prior to any installation work commencing. DTPW project manager shall provide a response with comments or approval of plans within a 2-week period of submittal. Comments provided by DTPW project manager shall be satisfied prior to approval of plans. The Contractor shall be solely responsible for proper fit/function of the wheel press machine. The Contractor shall also be solely responsible and take necessary measures to avoid damage or compromise the existing structure (to include electrical, water and drainage components) and other existing equipment within the Lehman maintenance facility.

3.X MAINTENANCE REQUIREMENT

In addition to any warranty provisions provided within these specifications, the Manufacturer shall provide a Maintenance Agreement for the truing machine and associated systems for a period of 5 years after the date of Final Acceptance. Included in the agreement shall be two (2) complete servicing and inspection visits of the machine and all associated systems and controls per year for each of the 5 years. Each inspection shall be no less than 16 hours and be conducted on a weekday during normal business hours. The inspections shall coordinate with the planned preventative maintenance schedule. During each visit, County's operations and maintenance staff will assist as on the job training for each task. In addition to 16 hours per visit, Manufacturer shall provide 8 hours of operation monitoring for the purpose of ensuring normal functioning of the machine.

Following each inspection, the Manufacturer shall prepare and submit to the County a written report with two (2) copies, stating the condition and wear tolerances of the equipment and all associated systems and controls, outlining any modifications to the maintenance recommendations or operational procedures and respond in writing to questions raised by the County's personnel during the inspection period.

As part of the first inspection only, Manufacturer shall, at no cost to the County, completely inspect, service and adjust the wheel truing machine, the sliding rail arrangement, the chip collection system, the conveyor belt, and accessories and replace any parts showing undue wear, or tendencies toward malfunction, or any items indicating a need for modifications or design change. This shall be furnished as part of the warranty obligation by the manufacturer.

Each of the service inspections shall be performed by the Manufacturer's service representative(s). All costs involved with each of these inspections such as labor, travel, accommodations, charges, fees, and tool costs shall be paid in full by the Manufacturer.

Manufacturer shall notify the County in writing at least two (2) weeks prior of the intent to conduct each system service inspection.

3.X SERVICE SUPPORT REQUIREMENTS

The Contractor shall provide 5 years of service, with one visit per year minimum frequency. In addition, the Contractor shall be capable of providing emergency response action for troubleshooting and repair of the machine with immediate over-the-phone service from 6 A.M. to 10 P.M., seven days a week, Eastern Standard Time, and guaranteed 24-hour response time to DTPW's facility with qualified technicians.

3.X DESCRIPTION OF MACHINE

The machine required is an Underfloor Rail Wheel Truing Machine (milling type machine) which will allow simultaneous truing of two 28" diameter wheels mounted on a single axle with a minimum production rate of at least 35-55 minutes per wheelset.

4 milling heads (2 for each side), as spares (in addition to the 2 milling heads installed in the machine), must be provided along with the machine. The wheel truing machine shall be delivered with 6 milling heads in total.

All machines that are proposed must have a service-proven history of reliable operation. All technology used in the design and fabrication of the machine must be service-proven. Miami-Dade DTPW shall be the sole judge of this requirement.

3.X BASIC MACHINE

The machine shall contain a machine base, crossbeams with tools blocks, rams, and hold down units, inboard bearing supports, roller carrier and axle guide roller assemblies, profile wear and diameter measuring units, CNC controls, and hydraulics.

In addition, the basic machine will include a chip disposal system, a cabinet for a printer and network accessories, adequate lighting and hard copy manuals, schematics, and drawings with Electronic copy of all manuals, schematics, and drawings.

3.X RAIL VEHICLE INFORMATION

Truck Wheelbase	6' 10" – 8' 6"
Wheel Diameter, new	28"
Wheel Diameter, worn limit	25.5"
Between gauge points	4' 7-11/16"
Between backs of flanges	4' 5-3/8"
Single vehicle weight, empty	100,000 lbs.

Clearance, top of rail to bottom of truck, worse case. 3"

3.X DATA ACQUISITION SYSTEM

A system is required to collect wheel set data, including pre-measuring data, nominal truing data, and post measuring data.

3.X DUST AND FUME EXTRACTING SYSTEM

Each machine is required to have a system to remove contaminated air from the work area and supply fresh air.

3.X ANTI-SLIPPAGE MONITORING SYSTEM

This system is required to monitor the slippage between the drive roller and the wheel set. When slippage occurs, based on a pre-set percentage of slippage, the tools will automatically retract from the cut. One system is required for each machine.

3.X MONITORING SYSTEM

Cameras, intercom communication, and two monitors (each monitor with intercom capability) must be supplied. The cameras will be mounted to give a complete view of the operator's area. One monitor will be mounted in the Chief Supervisor's office and the other in the Supervisor's office. The cameras, intercom system, and monitors must communicate with each other and be integrated with the emergency stop button/function. An audio and visual alarm shall be triggered at the two monitor locations and the wheel truing machine area when the emergency stop button is activated.

3.X CERTIFIED CALIBRATION WHEEL SET

A Certified wheel set for calibration will be delivered with a stand. The wheel set shall be provided by DTPW.

3.X WINCH SYSTEM

A vehicle pulling winch system is required.

3.X PERSONNEL PROTECTION SYSTEM

A remote safety system to include video monitoring capability is required to maintain one-person operation.

3.X TEST AND ACCEPTANCE PLANS

The awarded Bidder shall provide factory test plans and acceptance test plans for DTPW's review and approval.

The factory plan shall include factory testing of the fully assembled machine at the Contractor's site prior to shipping. DTPW reserves the right to have its engineers witness all testing of the unit. All machine features and functions shall be demonstrated to function properly and in accordance with the DTPW approved contractors test plans and procedures. After the functional tests, two single axles shall be mounted and machined to verify machining quality and automatic features. DTPW will provide and ship to the Contractor two wheel and axle sets for these tests.

The acceptance test plan shall include machining of 12 complete mounted trucks to confirm vehicle winch operation, and automatic functions under load along with the machining quality of thread profiles. DTPW engineers will witness and approve all testing. The testing must demonstrate automatic setup, wheel equalization truck to truck, axle to axle on the same truck and wheel to wheel on the same axle. The above shall not exempt the contractor from executing all requirements for machine testing to **American Association of Railroad (AAR)** and other US standards.

SECTION 4

BID SUBMITTAL REQUIRED CRITERIA

	TO BE COMPLETED BY ALL BIDDERS
	Refer to Paragraph 2.5 to ensure that Bidder's responses and attachments comply with the Solicitation's requirements. However, the County reserves the right to request additional information during evaluation.
	Bidder Requirements
2.6.1	<p>Bidder or Bidder's Subcontractor shall be regularly engaged in the business of providing liquid waste handling services to be considered for award. Bidder or Bidder's Subcontractor shall provide three (3) <i>different</i> references from customers to whom the Bidder has provided or is currently providing liquid waste handling services as described throughout this Solicitation. In lieu of the references from the Bidder or Bidder's Subcontractor, the County will consider the references from Bidder's key personnel in accordance with Resolution No. 1122-21.</p> <p>The references should include the customer's company name, and the contact's name, title, address, telephone number, and e-mail address of the contact person who can verify that the Bidder/Subcontractor/Bidder's key personnel has successfully provided the services. These references shall ascertain to the County's satisfaction that the Bidder has sufficient expertise in the industry and its firm is properly equipped to perform the required services.</p> <p>Reference Company Name No. 1: <input type="text"/></p> <p>Is reference for the Bidder, Subcontractor, or key personnel: <input type="text"/></p> <p>If Subcontractor, then identify the name of the Subcontractor: <input type="text"/></p> <p>If key personnel, then identify the name of the key personnel: <input type="text"/></p> <p>and make sure that company key personnel worked for is listed <u>above</u> as "Reference Company 1."</p> <p>Contact's name: _____ Title: _____</p> <p>Address: _____</p> <p>Phone Number: _____ Email: _____</p> <p>Reference Company Name No. 2: <input type="text"/></p> <p>Is reference for the Bidder, Subcontractor, or key personnel: <input type="text"/></p> <p>If Subcontractor, then identify the name of the Subcontractor: <input type="text"/></p> <p>If key personnel, then identify the name of the key personnel: <input type="text"/></p> <p>and make sure that company key personnel worked for is listed <u>above</u> as "Reference Company 2."</p>

	<p>Contact's name: _____ Title: _____</p> <p>Address: _____</p> <p>Phone Number: _____ Email: _____</p> <p>Reference Company Name No. 3: <input type="text"/></p> <p>Is reference for the Bidder, Subcontractor, or key personnel: <input type="text"/></p> <p>If Subcontractor, then identify the name of the Subcontractor: <input type="text"/></p> <p>If key personnel, then identify the name of the key personnel: <input type="text"/></p> <p>and make sure that company key personnel worked for is listed <u>above</u> as "Reference Company 3."</p> <p>Contact's name: _____ Title: _____</p> <p>Address: _____</p> <p>Phone Number: _____ Email: _____</p>	
<p>2.6.2</p>	<p>Letterhead stating the bidder is the manufacturer and installer of the machine offered.</p>	
<p>2.6.3</p>	<p>Bidder shall assign a competent company representative and identify below.</p> <p>Designated company representative name: _____</p> <p>Phone Number: _____</p> <p>E-mail address: _____</p>	