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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY 600 FIFTH STREET, N.W. WASHINGTON, D.C. 20001

AMENDMENT NO. 6 TO INVITATION FOR BIDS FOR

SUPPLY, DELIVERY AND INSTALLATION OF THE PORTABLE JACKS

TO WHOM IT MAY CONCERN:

The Invitation for Bids for Bid Documents accompanying IFB FQ15096/ER requesting Bids for the above project are hereby changed in part as listed below.

1. Volume 2 Technical Specifications, Pg 253

Delete	<u>Substitute</u>	Description
Volume 2, Technical Specifications	Volume 2, Technical Specifications	Revised

2. Volume 3 Drawings, Pg 254

Delete	Substitute	Description
Volume 3, Drawings	Volume 3, Drawings and Pictures	1. Portable Lift Control Cabinet Locations, capacity and Electrical Cable Length – P.1 2. End Jacking Pads and Side Lifting Pads end frame Ass-r End (B1-CAR) – P. 2 to 7 3. End Jacking Pads and Side Lifting Pads End Underframe Assy-r End (B-CAR) – P. 8 to 13 4. End Jacking Pads and Side Lifting Pads Jacking Pad Installation (A-CAR) – P.14 5. Picture: 8 Jacks lifting a Married Pair

2. Acknowledgment

Offerors are required to acknowledge receipt of this amendment on Bid Form in the spaces provided. Failure to acknowledge all amendments may cause the Bid to be considered non- responsive to the invitation, which would require rejection of the Bid.

Richard Owens

Procurement Manager/Contracting Officer. Office of Procurement



Washington Metropolitan Area Transit Authority

VOLUME 2 TECHNICAL SPECIFICATIONS ######

Introduction

Portable train car lifts (portable jacks) are required for inspection and maintenance operations within the new West Falls Church Annex Service & Inspection (S&I) facility. The new S&I facility accounts for the capacity to provide maintenance to four (4) married pair Trains, two (2) married pairs by means of permanent lifts (existing in the facility) and two (2) additional married pairs by means of Portable Lifts or jacks (to procure hereby). As WMATA continue improving regional mobility and connecting communities through the new Silver Line project, the need to expand the existing Yard at West Falls Church is imperative in order to consistently deliver quality service to the Metro clients.

Current Scope of Work

The Contractor shall supply, install (including interconnection, programming, calibration, and synchronization) and test the following:

- Two (2) sets (8 ea per set) 20 metric ton capacity mobile lifting jacks
- Two (2) control panels, one per each set of eight, to synchronize the operation of the eight (8) jacks.
- The Contractor shall also supply 4 ea, 20 metric tons capacity mobile lifting jacks with no control panel that will be used as spares.
- The Contractor shall provide heavy-duty screw type mobile lifts (jacks) to be controlled:
 - 1. singularly (each column)
 - 2. in sets of eight (8) by a remote hand held pendant
 - 3. in sets of eight (8), by a wireless central control console
 - 4. and any combination of the three above
- Lift operation in sets shall be synchronized such that variation in between any column shall not exceed four (4) millimeters maximum. Lifts shall be moveable by hand on concrete floor.

The Contractor shall supply the following equipment:

Equipment	Amount	
Mobile lifting jacks (Portable Jacks)	16	
Spares mobile lifting jacks (Portable Jacks)	4	
Control panels to synchronize the operation of eight (8) jacks	2	
Electrical requirements	The Contractor shall provide all electrical cable and plugs type HBL460P7W necessary to operate all the Jacks. Reference Volume 3 Drawings for electrical infrastructure existing in the Facility and length of Cables.	



The Lifts shall meet the following requirements:

Lifting capacity per jack:	20 tons	
Lifting capacity per set of eight jacks:	160 tons	
Lowest position of cantilever (claw) above upper	400 mm	
edge of rail (floor):		
Highest position of cantilever (claw) above upper	not less than 1950mm	
edge of rail (floor):		
Vertical Stroke:	not less than 1565mm	
Lifting/lowering speed:	12 to16 inch per minute	
Control Panel Receptacle Voltage:	480 V AC, 3 ph, 60 Amps	
Protection of electrical equipment:	IP 54 or higher	
Lifting pads	Retractable/horizontally adjustable	
Central Control Panel	Wireless remote controlled system	
Synchronized precision for set	4 mm or .16 in	
Noise Level	< 70 db (A)	
Documentation:	Two fold each: GA drawing, Spare Parts List, Wiring	
	Diagram, Lubrication Plan, Operation and	
	Maintenance manual. Refer to Deliverables section.	
Warranty	24 months from the day installed and tested, to	
	include the replacement of all materials and	
	components which becomes useless due to a	
	defective material and incorrect manufacturing.	
Coating:	Blast cleaning according to SIS 05 5900 Standard, SA	
	grade 2-1/2. Color: Yellow, RAL 1007	
Regulations:	EN 1493, ISO Standard, DIN Standard, IEC	
	Regulations, VDE Regulations, and OSHA	

Deliverables

A. OPERATION MANUALS AND MAINTENANCE MANUALS

The Contractor shall provide the following to the Project Manager:

- Five (5) hard copies (inserted in binders) and one (1) electronic copy (pdf format) of the Operation Manuals and Maintenance Manuals on the day of the delivery of the portable jacks.
- At least two (2) of the Manuals shall consist of laminated or similarly protected pages throughout.
- Operation and maintenance manuals shall include, but not necessarily be limited to, the following detailed information:
- 1. Equipment function, normal operating characteristics, limiting operations.
- 2. Demonstrate assembly, disassembly, and installation instructions of all equipment. Technical manuals shall include testing, troubleshooting charts with corrective action and scheduled maintenance instructions.
- 3. Operating instructions for start-up, routine and normal operation, regulation and control, shutdown, and emergency conditions.
- 4. Incorporate the equipment's lubrication and maintenance instructions.
- 5. Parts list and predicted life of parts subject to wear.
- 6. Outline, cross-section, and assembly drawings; engineering data; and electrical diagrams, including elementary diagrams, wiring diagrams, connection diagrams, word description of wiring diagrams and interconnection diagrams.



- 7. Test data and performance curves.
- 8. List of recommended spare parts with a price list and a list of spare parts provided under these specifications.
- 9. Copies of installation instructions, parts lists or other documents packed with equipment when delivered.
- 10. Product Technical Specifications.
- B. Equipment and component manufacturer's warranty of 24 months to include the replacement of all materials and components which becomes useless due to a defective material and incorrect manufacturing.

Performance and Acceptance Criteria

- The Contractor shall perform an on-site training class in the maintenance and operation of the
 jacks within a week after the delivery of the Jacks to the Yard. Day and time will be coordinated
 closer to delivery date.
- The training shall include two sessions for two different shifts of a minimum duration of one day (7.5 hours) per each session. Training schedule to consist of 5 hours of maintenance related training and 2.5 hours of operational related training.
- The Contractor shall provide a presentation and materials (including computer or laptop computer, projector, etc.) to educate, train, and teach personnel (maximum of 16 students per session) thereby enabling the staff to operate, service, and maintain the equipment satisfactorily.
- The training shall include on-site instructions, twenty (20) handouts manuals per session, classroom aids, and all other items required to satisfactorily train each personnel.
- Practical training on equipment shall occupy a significant portion of all training classes.
- The training shall be held at the Lunch/Training Room and Shop areas of the WMATA's West Falls Church Yard Storage and Inspection Annex Building.
- Training must also include a demonstration of the operation of the jacks by means of lifting two (2) married pair trains.

Technical Specifications

Development to meet the following standards; EN 1493, ISO Standard, DIN Standard, IEC Regulations, VDE Regulations, and OSHA

Product technical specifications shall be submitted as part of the Deliverables package

Performance Schedules

The Contractor shall deliver the Work including but not limited to the training and installation within a period of 180 days after the Notice to Proceed

Location of work and any constraints

The Contractor shall deliver the portable jacks (via FOB destination) to:

WMATA's West Falls Church S & I Yard Attention: Mr. Raúl Cintron, Project Manager (202) 527-1130 cell. 7251 Idylwood Rd, Falls Church, VA 22043,

Delivery hours are between 6:30 am and 12:30pm. The Contractor shall contact Mr. Raul Cintron, via the above contact details, 2 calendar days prior to the delivery date. Any damage(s) incurred in shipping the equipment is the sole responsibility of the Contractor.

DRAWING INDEX

DRAWING No.	TITLE	PAGE
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D4113-000424-b	END JACKING PADS AND SIDE LIFTING PADS END FRAME ASSY-R END (B1-CAR)	2 TO 7
D4113-000205-c	END JACKING PADS AND SIDE LIFTING PADS END UNDERFRAME ASSY-F END (B-CAR)	8 TO 13
D4112-000039-d	END JACKING PADS AND SIDE LIFTING PADS JACKING PAD INSTALLATION (A-CAR)	14



























