South Hadley Electric Light Department

INVITATION TO BID

AERIAL LIFT AND UTILITY BASE

South Hadley Electric Light Department is accepting sealed bids **until 1:00 P.M., Thursday, February 25, 2021** at the SHELD Office, 85 Main Street, South Hadley, MA, at which time the proposals will be publicly opened.

Bidders are to submit **two (2) copies** of each sealed bid. The signed "Certification of Signature Sheet" must be included.

Please state net delivered price and approximate delivery date. Delivery time will be a factor in awarding the contract.

The right is hereby reserved to reject any and all proposals that in the opinion of the Municipal Light Board may not be in the best interest of the Light Department.

For any technical questions or concerns regarding the Aerial Lift and Utility Base IFB, please call Ed Morrin (413) 341-8958 or e-mail him at emorrin@sheld.org . The Bid is also available on our website: www.sheld.org , under "About", "RFP and Specifications". If you would prefer to have the information emailed to you, please contact kmendoza@sheld.org .

Please indicate "**Proposal for Aerial Lift and Utility Base** " on the outside of a sealed envelope and send or deliver, in duplicate, to:

Proposal for Aerial Lift and Utility Base
South Hadley Electric Light Department
85 Main Street
South Hadley, MA 01075

No fax or electronic bids will be accepted. All bids must be clear and legible in order to be considered.

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

AERIAL LIFT AND UTILITY BASE

BID PROPOSAL FORM FOR FEBRUARY 25, 2021 1:00PM

AERIAL LIFT AND UTILITY BASE

QTY: 1

UNIT COST: _____

TOTAL COST: _____

DELIVERY TIME (weeks): _____

MANUFACTURER: _____

MODEL # : _____

VENDOR NAME/CONTACT INFO: _____

_____

_____

PLEASE ATTACH INFORMATION ON ANY CHANGES, ADDITIONS, SUBSTITUTIONS OR IF YOU ARE UNABLE TO MEET A LINE ITEM.

ALSO ATTACH THE COMPLETED "CERTIFICATION OF SIGNATURE SHEET".

CERTIFICATION OF SIGNATURE SHEET

The undersigned hereby certifies that under the penalties of perjury that his bid is in all respects bonafide, fair and made without collusion or fraud with any other person. As used in the subsection, the word "person" shall mean any natural person, joint venture, partnership, corporation or any other business entity.

The undersigned further certifies that under pains and penalty of perjury that to the best of my knowledge and belief, the vendor/contractor has filed all state tax returns and paid all state taxes required under law and has complied with all laws of the Commonwealth of Massachusetts relating to taxes.

COMPANY NAME AND ADDRESS: _____

_____

_____

_____

TELEPHONE AND FAX NUMBER: _____

FEDERAL I.D. NUMBER: _____

DATE: _____ _____

Signature of Corporate or Company Officer

_____

Print Name

_____

Email Address

IF THE REMIT ADDRESS IS DIFFERENT THAN THE ADDRESS TO WHERE THE PURCHASE ORDERS ARE MAILED, PLEASE ENTER BELOW:

Remit to: _____

_____

_____

_____

Approval of this contract will not be granted unless this certificate clause is signed by the applicant. This request is made under the authority of Mass. G.L. c. 62C S. 49A.

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

AERIAL LIFT AND UTILITY BASE

SPECIFICATIONS

The intent of this specification is to supply one new articulating insulated bucket truck material handler, one utility line body mounted on a suitable cab chassis complete and ready to place in service. This truck is to meet all current state and federal, Division of Motor Vehicle codes. This unit to be new 2021 product and delivered with a complete one-year warranty.

1. AERIAL DEVICE:

A. Over-center material handling aerial device, mounted over rear axle, with full pressure, open center hydraulic system, closed center system is unacceptable.
B. Boom over Boom design.
C. Platform Height - Fifty (50) feet to bottom of bucket.
D. Working Height - Fifty-five (55) feet.
E. Platform Capacity - 500 pounds in the bucket, tool outlet, bucket rotator, hydraulic articulation, and extended jib.
F. Horizontal and Vertical Reach – Thirty-Nine (39) ft. reach with lower boom at maximum articulation and upper boom horizontal. Forty-three (43) ft. reach with lower boom at zero degrees and upper boom at 180 degrees.
G. Upper Boom Articulation – One Hundred ninety-three (193) degrees.
H. Lower Boom Articulation - One hundred Sixteen (116) degrees.
I. Upper and Lower Booms both elevated by hydraulic cylinders; cable or chain unacceptable.
J. Boom Tip - all hoses and leveling must be contained inside boom. Exposed hose bundles not acceptable. All steel at boom tip to be covered with fiberglass or plastic.
K. Rotation shall be continuous.
L. Throttle Control - Two speed control at bucket, lower controls, and left and right rear of body.
M. Permanent dielectric test bands are provided on the upper boom.

2. OUTRIGGER:

A. Two (2) sets (4) Outriggers with integral holding valves; individual control valves mounted under tailshelf; two right and two left.
B. Front outriggers to be full “A” Frame type and rear outriggers to be “A” Frame type and not interfere with body load area.
C. Front Outriggers mounted between cab and body.
D. All four (4) outriggers to have pivot feet.
E. Tower, Front and Rear Outriggers mounted to a heavy duty subframe made from 6”x 6”x 1/4” steel tubing w/5/16” top and bottom plates, full length.
F. Outrigger boom interlock, all four outriggers must be extended before the aerial lift is operational. Each outrigger must have a roller switch enclosed in a steel housing for protection on the outside of the outrigger leg. Wand type switches are not acceptable.

G. Equip with outrigger motion alarm.
H. Outrigger/boom selector valve to be located in the right-side outrigger valve stack.

3. LOWER BOOM:

A. Lower Boom equipped with fiberglass insert to provide 18" of clear insulation
B. Lower Boom Support - between cab and body, mounted to chassis frame.
C. Include ratchet strap and boom hold down.

4. UPPER BOOM:

A. Upper boom - fiberglass length of one hundred fifty-nine (159") inches clear insulation, minimum articulation 193 degrees.
B. Basket must come to the ground.
C. Automatic Upper Boom auto latch - locks upper boom in place until PTO is engaged.
D. Include ratchet strap and boom hold down

5. HYDRAULIC:

A. Full Pressure Open Center hydraulic system. Closed center systems are unacceptable.
B. 35 Gallon Oil Reservoir - mounted Between the Cab and Body; 35 gallons Hydraulic Oil, Strainer, Dip Stick and Shut-off Valve.
C. Filter mounted in top of hydraulic tank for ease of replacement.
D. Hydraulic pump to be direct mounted to PTO.
E. Hot shift on power take-off, for transmission with a red light on dash.
F. Insulated Engine Stop/Start at basket controls and at right rear outrigger controls.
G. Pressure gauge at lower controls.
H. Single Conductor Wire Holder, Swivel Type, with adapter for Jib.
I. Emergency lowering system to be 12V operated from the bucket, the lower controls & the right rear of body. Must be able to control all boom functions and outriggers, must be fused. .
J. All hoses below rotation shall be steel braid.
K. All hoses above rotation shall be non-conductive.
L. Hydraulic Tool Outlets at right rear of body with HTMA quick disconnect fittings and dust caps: control valve mounted in outrigger controls, right rear.

6. POWER TAKE-OFF:

A. A PTO is to be mounted to the transmission.
B. Shift control in the cab and a dash mounted PTO engaged warning light shall be installed.
C. Hour meter to record PTO run time.
D. Red Light on dash to indicate that power take-off is engaged.

7. BASKET AND CONTROLS:

A. Shall be single man, side hung fiberglass platform curb side mounted.
B. Dimensions 24" x 30" x 42" deep.
C. Hydraulic basket rotator shall have a 115 degree forward.
D. A hydraulic bucket rescue system shall be provided on bucket. Hydraulic tilt control located at upper and lower control with yellow control handle and must have interlock to prevent inadvertent operation.

E. Heavy duty waterproof bucket vinyl cover.
F. A 70 KV liner will be provided with the bucket.
G. Basket to have access step 12" by 6"inside/outside, step to face front.
H. Basket must be removable without disturbing controls.
I. Single stick, rotator, jib tilt, jib extend, winch, tools, tool outlets, basket tilt, emergency dump, two speed throttle and emergency lowering shall be provided at the bucket and shall rotate with the basket.
J. 2 Speed Throttle Control at bucket, lower controls, left and right rear of body.
K. Single stick to be model PTE 6000, no twisting required.
L. Single stick top control must be made of nonconductive material and be tested to maximum of 30 kv with no more than 400 micro amps leakage.
M. Independent Hydraulic Tool Lines - at bucket equipped with 3 position valve - Neutral, Pressure, Release - to release trapped pressure which facilitates connecting tool couplers; equipped with HTMA quick disconnect fittings and dust caps.
N. Tool line pressure limited to 2,000 PSI. Adjustable relief valve and Adjustable flow divider.
O. Top Controls - Full Pressure, Open Center, Single Stick with safety interlock.
P. Separate Emergency Hydraulic Dump Control located adjacent to and independent of bucket controls; dumps all hydraulic bucket and accessory winch, jib, etc. functions.

8. <u>LOWER CONTROLS:</u>

A. To be mounted at pedestal, full pressure, open center design.
B. Lower Controls, with guard, located on turret curbside; separate selector valve overrides upper controls.

9. <u>MATERIAL HANDLING SYSTEM:</u>

A. A boom tip winch and a jib are to be located on the bucket shaft opposite bucket.
    1. Telescopic material handling Jib mounted on streetside of upper boom.
        a. 8 ft. minimum overall length.
        b. 6 ft. minimum extension.
        c. 5 Adjustment Holes at 12” increments.
        d. Jib can be extended or retracted from bucket.
        e. Jib to be rectangular cross section for ease of extension and retraction.
        f. Include Head Sheave.
        g. Jib to extend hydraulically.
        h. Jib must be able to be re-pinned under load.
        i. Jib to articulate hydraulically - minimum 125 degrees of articulation without repinning.
    2. Hydraulic Worm Gear Winch - 1,900 lb. capacity; 75 ft. of 1/2” Synthetic Winch Line with swivel hook - mounted at end of fiberglass upper boom; control at bucket controls and lower controls.
    3. Maximum capacity is 1500 lbs. full drum, but usable capacity will vary with upper boom angle.
    4. Capacities are not reduced based on lower boom angle.
    5. No required distance between upper and lower booms to obtain rated capacities.
    6. Capacities based on 400 lbs. in basket, tool outlets, basket rotator, hydraulic

articulating, and extendable jib.

7. Load chart to read 925 lb. capacity with jib extended 4 ft., in any non-overcenter upper boom position.
8. Unit equipped with load chart at upper boom to indicate actual lifting capacity of unit considering all options. Capacities considering upper boom angle and jib extension must be on same load chart.

10. ELECTRICAL:

A. All marker lights to be LED, with sealed harness 33050 R&Y.
   2 red side marker lights on rear of body
   2 red reflectors on rear sides of body
   2 red reflectors on rear of body
   2 amber clearance lights at front of body to be shielded from rear view mirrors
   2 red clearance lights at rear of body
   3 red identification lights on rear.
B. 2 – 4" LED recessed stop/directional lights in platform extension.
   2 – LED back up lights recessed into platform extension.
C. Amber strobe mounted on angle off boom rest street side.
D. License Plate Light
E. Back up Alarm
F. 2 LED red stop, tail & turn lights mounted rear of cabinets, includes reverse light.
G. Trailer socket at pintle hook 7 pin configuration. Customer to furnish P.N.
H. LED strip lighting in all cabinets. Master switch on dash.
I. PTO hour meter on dash.
J. Red Light on dash to indicate power take off is engaged.

11. UTILITY BODY:

A. Body

1. Heavy duty line construction body for use with material handling aerial unit.
2. Body to be factory undercoated.
3. Body to be 154" long x 96" wide.
4. Side cabinets to be constructed of fiberglass
5. Side cabinets leveling 48" high x 154" long. 4 compartment type on right; 4 compartment type on left. Top of floor to top of cabinets 28".
6. 99" FBCA chassis.
7. Center floor space -60" wide, Floor 3/16" four-way safety diamond plate thru wended to 6" #8 structural steel cross members. Walk area to be covered with safety tread material.
8. Front and Rear Cross members to extend through to outside edge of cabinets to relieve tension in front and rear of cabinets
9. Full width, 14gauge wheel well liners spaced away from lower edge of cabinets Outside of fenders equipped with fiberglass molded edges.
10. Spring loaded door holders (overcenter).
11. Weatherproof doors equipped with recessed stainless steel door locks, rotary handle style-all keyed alike, individual key locking
12. Recessed door locks riveted on door with steel hinges.

13. Front headboard to be aluminum
14. Entire front of body to be aluminum or aluminum diamond plate, headboard extended to outside edge of compartments and lower rock guards to be extended to bottom of headboard. Cabinet side facing bed covered with aluminum diamond plate.

B. Compartments Right Hand Side

1. #1- Right front - 48” high x 25-3/4” wide x 18” deep with vertical door. With six (6) drawer unit with 3” x 13” drawers as wide as possible. All drawers on slides & equipped with latches and one (1) fixed shelf above drawer
2. #2 - Right front - Access opening 25” wide for access into body. Equipped with two (2) grip strut steps, mounted 4” below body. Grab handle.
3. #3 - Right front - 48” high x 21” wide x 18” deep with vertical door. Six (6) material hooks (1-4-1)
4. Right center compartment to be 53-1/2" wide x 20” high x 18” deep with horizontal hinged door. One shelf midway with dividers.
5. #4 - Right rear - – 29” wide x 48” high x 18” deep with vertical door with water cask stand and strap. Five (5) material hooks (0-3-2). Provide cutout for outrigger in bottom of this compartment.
6. Rubber goods box 105" L x 10" H x 18" W mounted on top of body right side compartment. Equipped with one top opening door and one drop down door at the rear. Top of box to be covered with grip strut.

C. Compartments Left Hand Side

1. Full length shelf, 154”, located 9" down in left side compartment with door and key locking handle at rear.
2. #1 - Left front – 26” wide x 48 high x 18” deep with vertical door with three (3) adjustable shelves 2” lip with adjustable dividers.
3. #2 - Left front - 19" wide x 48” high x 18” deep with vertical door with seven (7) material hooks (2-3-2).
4. #3 - Left front - 27 " wide x 48” high x 18” deep with vertical door with 2 adjustable shelves 2” lip with adjustable dividers.
5. Left center compartment to be 53" wide x 20” high x 18” deep with horizontally hinged door with 8 adjustable dividers at 8”.
6. #4 – Left rear - 29" wide x 48” high x 18” deep with vertical door with five material hooks (1-4-0). Provide cutout for outrigger at bottom of compartment.

D. Body Accessories

1. Ladder trough, left side, 21" wide x 154" long with 2” roller at the rear include 2 rubber hold down straps.
2. Aluminum box left side of body 120” long, 18” deep, 10” high. Two top opening doors, mounted over ladder rack, provide 8” of clearance between bottom of ladder rack and bottom of box
3. Two (2) grip strut cable steps at rear of body, 15” wide.
4. Two grab handles at rear, one right and one left. Two additional grab handles mounted to rear of compartments left and right rear.

5. T-100A pintle hook with chassis reinforcement and 2 safety eyes, mounted approximately 27" ground to center of eye
5. Mud flaps
6. 24" rear platform extension of 6” channel and 3/16” to include thru compartment covered with diamond plate to include through compartment with doors opening to both sides.
7. Two (2) grip strut access steps from bed to top of compartment right side for basket access.
8. One (1) grip strut to top of right side for basket access.
9. Grab handle for access to bucket at lower controls.
10. Undercoat body.
11. Four (4) Wood Outrigger Pads. (24”x24”)
12. Outrigger Pad Holders 25” x 25”x 6” to be mounted underbody.
13. Two (2) Rubber Dock Bumpers at rear frame.
14. Red and white reflective tape on rear channel of tailshelf. Red and white reflective tape on side of body. Red reflective tape on knuckle of upper boom.
14. Tie-off loops for safety chains at rear of body.
15. Non-skid entire floor.
16. Chock block holders to be recessed into body wheel wells, 2 right and 2 left.
17. Furnish two (2) rubber chock blocks.

12. PAINT:

A. Paint body white to match cab.
B. Aerial unit to be white to match cab.
C. Fiber glass upper boom, lower boom insert, bucket and all fiber glass guards to be painted manufacture’s standard white.

13. PRE-DELIVERY REQUIREMENTS:

A. Manuals furnished with the completed unit:
   1. Two service manuals.
   2. Two parts manuals.
   3. Two operator’s manuals
B. Testing:
   1. Stability test done in accordance with ANSI and OSHA standards.
   2. Electrical and structural requirements must comply with ANSI A92.2 standards.
   3. All tests shall be in writing, certified and accompany the unit upon delivery.
   4. Di-electric Test Unit after installation
C. Safety Harness - Lanyard and “D” ring attachment.

Any changes, additions, substitutes or if unable to meet a line item specification shall be noted and information must be provided to reflect the changes.