

**TOWN OF ARLINGTON
MASSACHUSETTS**

BID NO. 15 - 32

Sealed bids, pursuant to the Uniform Procurement Act, Ch. 30B, are invited and will be received by the Town Manager, Town of Arlington, Massachusetts, until **10:00 A.M., Thursday August 20, 2015**, at the Office of the Purchasing Director, 730 Massachusetts Avenue, Arlington, Massachusetts, at which time and place they will be publicly opened and read for furnishing:

Backhoe Loader (Used)/Dept. of Public Works

Bids received after this time will not be accepted. Specifications and Proposal Forms may be obtained at the Office of the Purchasing Director, 730 Massachusetts Avenue, Arlington, MA, 02476

Proposals must be submitted on forms provided and in a sealed envelope plainly marked:

BID #15-32 Backhoe Loader (Used)/Dept. of Public Works
Thursday, August 20, 2015 @ 10:00 A.M.

For further information please contact Domenic R. Lanzillotti, Purchasing Officer @ (781) 316-3003.

The Town Manager reserves the right to cancel any Invitation for Bid and/or to reject in whole or in part any and all bids, when it is deemed in the best interest of the Town to do so.

TOWN OF ARLINGTON

Adam W. Chapdelaine
Town Manager

August 6, 2015

PROPOSAL SHEET

BID: BACKHOE LOADER (USED)/DEPT. OF PUBLIC WORKS
BID OPENING: THURSDAY AUGUST 20, 2015, 10:00 A.M.
BID # 15-32

ADAM W. CHAPDELAINÉ
TOWN MANAGER
ARLINGTON, MA 02476

WE, THE UNDERSIGNED, AGREE TO FURNISH AND DELIVER THE FOLLOWING, TO THE TOWN OF ARLINGTON, MASSACHUSETTS, IN ACCORDANCE WITH THE INVITATION FOR BID AND SPECIFICATIONS FURNISHED TO US.

PROVIDE DESCRIPTIVE LITERATURE OF PRODUCT WITH SUBMISSION.

1 EACH – BACKHOE LOADER (USED)

MAKE _____ MODEL _____

YEAR _____

FIRM DELIVERY DATE _____

DELIVERED PRICE \$ _____

COMPANY NAME _____

SIGNED BY (COMPANY OFFICIAL) _____
NAME TITLE

ADDRESS _____

DATE _____

TEL. NO. _____

FAX NO. _____

EMAIL _____

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity, or group of individuals.

(Signature of individual submitting bid or proposal)

(Name of individual submitting bid or proposal)

Name of Business

Date

Pursuant to M.G.L. Chapter 62C, Section 49A, I certify under the penalties of perjury that I have complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

Social Security Number or
Federal Identification Number

Signature of Individual or Responsible
Corporate Officer and Title

NON-COLLUSION FORM
MUST BE SIGNED AND
SUBMITTED WITH BID

GENERAL BID SPECIFICATIONS JCB 212s BACKHOE LOADER

I. General

Used construction duty, 12 foot class backhoe loader not to exceed 4,800 hours on the meter in good working order.

All specifications advertised must comply with SAE recommended practice or ISO standards. Minimum operating weight of 12,500 lb. with standard equipment installed,

I. SAFETY AND SECURITY

Unit to be equipped with rollover protective structure (ROPS) and falling objects protective structure (FOPS). Retractable seat belt meeting. Unit to also be equipped with lever type park brake that is dry disc mounted on the transmission output shaft.

II. ENGINE

Naturally Aspirated, water-cooled, 4-cycle, direct injection diesel engine. Equipped with cold start aid (ether start aid will not be accepted). Coolant protection to -30 degrees F. .

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| Displacement: | 4 cylinder, 259 in ³ (4.25 liter) minimum. |
| Air Cleaner: | Filtration provided by two-stage system consisting of primary and secondary elements. |
| Fuel Filtration: | Two-stage fuel filtration system utilizing a water/sediment separator and spin-on secondary filter element. |
| Lubrication: | Full flow pressure lubrication with spin-on filter cartridge. |
| Horsepower Output: | Minimum 67 SAE net engine HP at 2,200 RPM with 215 foot pounds of torque. |
| Throttle Control: | To be hand and foot operable. |

III. TRANSMISSION

Shall feature synchronized shifting in all gears with power shift between forward and reverse.

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| Type: | Synchro shuttle with an 11" single stage dual phase torque converter and 4 forward and 4 reverse gears. |
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IV. FRONT AND REAR AXLES

Separate units, rear – rigidly mounted to mainframe, front – oscillates. Connected to transmission via drive shafts.

- Type: Heavy-duty double reduction. Outboard planetary gear, final reduction. Both front and rear axles are drive steer type to provide full time four wheel drive and four wheel steering.
- Steering: Hydrostatic power, full time all wheel steer system.

V. BRAKES

- Type: Sealed wet multiple disc. Single brake pedal operates all brakes simultaneously.
- Actuation: Hydraulically operated. Power assist.

VI. ELECTRICAL SYSTEM

- Type: 12-volt system with 72 amp alternator.
- Battery: Single, rated at 550 cold cranking amps. Low maintenance or maintenance free design.
- Lighting: Four halogen work lights front and two halogen work lights rear (total of six), stop lights, turn signals, four way hazard flashers.
- Circuit Protection: Fuses and relays located in common panel.

VII. SEAT/OPERATOR PLATFORM

- Seat: Suspension seat with adjustments for weight and fore/aft position. 2 inch retractable seat belt as standard.
- Platform: Enclosed Cab. Entry from left side. Full floor mat, fixed steering column, front windshield with wiper and washer, interior rear view mirror, four halogen work lights front and two rear (total of 6), pre-wired for beacon. Openable right side window, one piece rear window to open overhead, cup holders, storage compartment.

VIII. **LOADER - with Quick Attach:**

Unit to be equipped with an integrally mounted front-end loader meeting the following criteria:

Hydraulic quick coupling of front attachments as standard.
Three spool loader valve with hydraulic service to front coupler.
Parallel lift to maintain level load on raise and lower cycles.
Minimum .75 cubic yard capacity 4 in 1 heavy duty bucket.
Loader lift to equal or exceed 4,800 lbs.
Loader bucket breakout force to equal or exceed 7,900 lbs. Minimum of 8' dump height.
Loader control with integral transmission disconnect switch.

IX. **BACKHOE AND MAINFRAME AND HYDRAULICS:**

Unitized, one piece mainframe with integral backhoe meeting the following criteria:

Side shift frame with 3' 7" king post offset capability and straight leg stabilizers.
Two lever "backhoe" pattern controls.
Fabricated boom and dipper.
Auxiliary hydraulic service capable of operating a hydraulic hammer.
Backhoe with SAE Maximum dig depth to equal or exceed 12' 0"

Fixed dipper: Mainframe and stabilizers to be within the overall width of the machine with loader bucket installed.
Dipper lift at 8 ft to equal or exceed 2,200 lbs.
Boom lift at ground level to equal or exceed 1,500 lbs. Dipper breakout force to equal or exceed 5,400 lbf.
Bucket breakout force to equal or exceed 9,250 lbf.
Bucket rotation capable of 185 degrees minimum

X. **HYDRAULIC SYSTEM:**

Type: Open center

Hydraulic Pump: Single gear pump - 17 GPM flow at rated engine rpm.

System Pressure: 3,335 psi maximum

Hydraulic Separate oil reservoir not shared with other systems.

Reservoir: Externally mounted to mainframe for easy servicing.

Pipework: Structural steel pipe to withstand minor impacts.

XI. TIRES ALL WHEEL STEER:

Front and Rear: 12.5/80-18, 10 ply Industrial Lug Type

XII. SERVICEABILITY AND MAINTENANCE

Machine service and maintenance design to enhance operator convenience and ease of maintenance and including the following:

Operator standing on the ground must be able to check engine oil, transmission oil, brake fluid, engine coolant.

Operator standing on the ground must be able to top off engine oil, transmission oil, fuel, hydraulic fluid, brake fluid, engine coolant.

Removal of engine side panels must be without the use of tools.