

City of Portsmouth  
Portsmouth, New Hampshire  
Public Works Department

Bid#14-18  
40 Yd. Heavy Duty  
Closed Top Octagon Containers  
&  
Stationary Compactors  
**INVITATION TO BID**

The Portsmouth Public Works Department is seeking to purchase four (4) solid waste containers and two (2) stationary compactors.

Sealed bid proposals, plainly marked “Bid#14-18 40 Yd. Heavy Duty Closed Top Octagon Containers and Stationary Compactors” on the outside of the envelope, addressed to the Finance/Purchasing Department, City Hall, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801, will be accepted until 2:00 p.m. September 7, 2017 at which time all bids will be publicly opened and read aloud.

This bid is available at <http://www.cityofportsmouth.com/finance/purchasing.htm> or by contacting the Finance/Purchasing Department at the following number: (603) 610-7227.

Addenda to this bid document, if any, including written answers to questions, will be posted on the City of Portsmouth website at <http://www.cityofportsmouth.com/finance/purchasing.htm> under the project heading. Addenda and updates will NOT be sent directly to vendors. Questions may be addressed to the Purchasing Coordinator at [purchasing@cityofportsmouth.com](mailto:purchasing@cityofportsmouth.com).

The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

## INSTRUCTION TO BIDDERS

### I. Preparation of Bid Proposal

- A. The Bidder shall submit its proposal upon the form furnished by the City (attached). Prices shall be given in both words and figures.
- B. Corrections made to amounts or information requested on the bid form should be made by crossing out the error and entering the new price or information above or below it. The correction must be initialed. In case of discrepancy between the prices written in words and those written in figures, the prices written in words shall govern.
- C. The bidder's proposal must be signed by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture; by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the owner. If the proposal is made by an individual, his/her name and post office address must be shown, by a partnership the name and post office address if each partnership member must be shown; as a joint venture, the name and post office address of each must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business addresses of the President, Secretary, and Treasurer.
- D. All words, figures, corrections shall be in ink or typed. All signatures shall be in ink.
- E. Addenda to this proposal, if any, including written answers to questions, will be posted on the City of Portsmouth website at <http://www.cityofportsmouth.com/finance/purchasing.htm> under the project heading. Addenda and updates will NOT be sent directly to firms. Bidders submitting a proposal should check the web site for addenda and updates after the release date. Bidders should print out, sign and return addenda with the proposal. Failure to do so may result in disqualification.

### II. Delivery of Bid Proposals

When sent by mail, the sealed proposal shall be addressed to the owner at the address and in the care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening of the bids will be returned to the bidder, unopened. Faxed bid proposals are not acceptable.

### III. Withdrawal of Bid Proposals

A bidder will be permitted to withdraw his/her proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposals.

### IV. Public Opening of Bid Proposals

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

### V. Irregular Proposals and Disqualification of Bidders

Bid proposals that are irregular may be rejected. Irregular bid proposals include the following:

- A. Failure to use the bid form provided or alteration of the form.
- B. Unauthorized additions, conditional or alternated bids, incomplete bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- C. The addition of any provision reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

Bidders may be disqualified and the bid proposal rejected for the following reasons:

- A. More than one proposal for the same work from an individual, firm, or corporation under the same or different name;
- B. Evidence of collusion among bidders;
- C. Failure to submit all required information requested in bid specifications;
- D. Bidder is not qualified or able to provide the services or product(s) described in the bid specifications; or
- E. Disqualification is in the best interest of the City of Portsmouth.

### AWARD

#### I. Consideration of Proposals and Award

After the proposals are opened and read, bid results will be available to the public. In case of discrepancy between the prices written in words and those written figures, the prices written in words shall govern.

Within 30 calendar days after the opening of proposals, if an award is made, it will be made to the lowest, responsible, qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by mail at the address indicated on the proposal.

The award shall not be considered official until such time that a purchase order, fully executed contract or an award letter has been issued by the Finance Director.

No presumption of award shall be made by the bidder until such documents are in hand. Verbal notification of award is not considered official. Any action by the bidder to assume otherwise is done so at his/her own risk and the City will not be held liable for any expense incurred by a bidder that has not received an official award.

#### III. Reservation of Rights

The City reserves the right to cancel the award at any time before final notification of the successful bidder without any liability against the City. The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

## **Bid Specifications**

The intent of this bid is to purchase four (4) solid waste containers and two (2) stationary compactors.

An equivalent product will be considered that meets the bid specifications. The City in its sole discretion will determine if it satisfies the bid specifications

### **WASTEQUIP ACCURATE or Equivalent 40 Yd. Heavy Duty CLOSED TOP OCTAGON CONTAINER**

#### **1.0 GENERAL SPECIFICATIONS for 40 Yd. Closed Top Octagon Container**

**1.1 WORK INCLUDED:** Furnish 4 (Four) Solid Waste Containers in accordance with this Specification. Container systems shall be of the type as manufactured by Wastequip Accurate or equivalent.

**1.2** Design is based upon solid waste container systems as manufactured by Wastequip Accurate and the terminology used herein may include reference to that manufacturer's proprietary product. Such reference shall be construed only as establishing the quality of materials and workmanship, to be used under this section and shall not, in any way, be construed as limiting competition.

**1.3** To ensure system compatibility and equipment warranty responsibility, all components of the solid waste container system shall be furnished by the container manufacturer, unless otherwise approved in advance by the Engineer.

**1.4** The Solid Waste Container Systems shall be a current model year Wastequip Accurate Model R40CT22OCTHD, Standard production unit 22' long, 8' wide, 108" overall height.

#### **2.0 COMPACTION RATING:**

**2.1** The Closed Top Container shall be rated for use with compactors with a compaction force rating of #90,000 lbs. maximum.

#### **3.0 CONTAINER CONSTRUCTION:**

##### **3.1 FLOOR:**

**3.1.1** Floor shall be 1/4" plate, and shall have 3" structural channel on 12" spacing. Rails shall be 2" x 6" x 1/4" structural tube, all prime material. Solid steel bullnose inserted into tube for added strength, (butt welded on outside of tubes, not acceptable). Gussets on

every other cross member, 3/16" plate. Wheels shall be heavy-duty construction, front 8" diameter x 5" wide, rear 8" diameter x 10" wide. Wheel axle mounting brackets will be a minimum of 1/2" thick steel, 8" x 9". Rollers shall be 4" diameter x 4" long. Shaft for roller must be inserted through the bullnose. The hook is 1-1/4" hi-tensile steel, inserted thru 1" hook plate, locked in and full welded both sides. Hook and hook plate must carry a lifetime guarantee.

### **3.2 SIDES:**

**3.2.1** Sides shall be of 7 gauge lower, 7 gauge upper formed plates, two piece upper, two piece lower, with one horizontal and one vertical seam, full welded on outside and stitched on the inside. Bottom of side plate welded to floor plate on outside. Upper side piece shall be formed to allow adequate lap for roof panel support. Sides shall be tapered front to rear 8" total.

### **3.3 ROOF:**

**3.3.1** Roof shall be 7 gauge plate, full welded both inside and outside.

### **3.4 DOOR:**

**3.4.1** Door shall have horizontal and vertical 3" x 4" x 1/4" structural tubes. All tubes shall be prime material, one piece, no splits or joints. Opening for compactor shall be framed in 3" x 4" x 1/4" gauge structural tubing. Twelve 3/8" diameter "J" hooks shall be provided. Door plate shall be 7 gauge. Machined hinges 8" long with grease fitting – 3 hinges on sides. Semi-automatic cam locking system with vertical lift handle. Fabricated from 1-1/4" heavy steel bar, "Posi-Lock" cams and 1/2" "Posi-Lock" keepers on the door. This design is for the maximum protection of the operator. All areas of stress are reinforced and double welded. (Only vertical lift cam lock will be acceptable.)

**3.4.2** Binder grab plates will be 1/2" x 10" x 21" one piece steel with 5" x 5" burnout for packer binders

### **3.5 BULKHEAD:**

**3.5.1** 7 gauge with two (2) vertical structural supports.

### **4.0 PAINT: Hunter green**

**4.1** Container to be scraped and ground and free of sharp edges. All surfaces to be thoroughly cleaned and primed with one (1) coat of Low V.O.C. alkyd primer or equivalent, followed by one (1) coat of Low V.O.C. enamel or equivalent. (STANDARD COLORS ONLY.)

- 5.0**     **SILENCE OF SPECIFICATIONS:** The apparent silence of this specification and any supplemental specifications as to any detail or the omission from it of detailed description concerning any point shall be regarded as meaning that only materials of first quality and correct type, size and design are to be used. All workmanship is to be first quality. All interpretations of this specification shall be made upon the basis of this statement.
- 6.0**     **DETAIL INSPECTION:** Upon delivery of the container, the customer will inspect the container to assure compliance with specifications. Failure to meet specifications authorizes the customer to purchase container elsewhere. Any increase in cost or handling shall be paid by the defaulting contractor.

**Bid Specifications**

**WASTEQUIP MANUFACTURING COMPANY, LLC  
MODEL 645XHD-7-30 STATIONARY COMPACTOR  
Or Equivalent**

An equivalent product will be considered that meets the bid specifications. The City in its sole discretion will determine if it satisfies the bid specifications. See attached Compactor Model details.

**The following are minimum acceptable specifications. Indicate if specifications comply or deviate from the minimum acceptable specifications in the column titled “Comply/Deviation”.**

**1.0 GENERAL SPECIFICATIONS:**

**1.1 WORK INCLUDED:** Furnish two (2) Solid Waste Compactor Systems in accordance with this Specification. Compactor/Container systems shall be of the electric/hydraulic type as manufactured by Wastequip or equal.

**1.2** Design is based upon solid waste Compactor systems as manufactured by Wastequip and the terminology used herein may include reference to that manufacturer’s proprietary product. Such reference shall be construed only as establishing the quality of materials and workmanship, to be used under this section and shall not, in any way, be construed as limiting competition.

**1.3** To ensure system compatibility and equipment warranty responsibility, all components of the solid waste compactor/container system shall be furnished by the compactor/container manufacturer unless otherwise approved in advance by Engineering. Warranty will be two (2) years structural, one (1) year parts and one (1) year labor.

**1.4** The Solid Waste Compactor System shall be a current model year Wastequip Model 645XHD-7-30 standard production unit. The specifications of the solid waste compactor/container are to be the minimum acceptable standards for the project, or equal.

<b>2.0 <u>CHARGE BOX DETAILS:</u></b>	Comply/Deviation
<b>2.1</b> Charging Box Dimensions and Capacity.	_____
<b>2.1.1</b> 4.12 CU. YD. WASTEC rated.	_____
<b>2.1.2</b> Compaction chamber clear opening dimensions 100 1/2” L x 60” W	_____
<b>2.1.3</b> Theoretical rating 239 cubic yards per hour at 100% utilization.	_____

**2.2 RAM DETAILS:**

**2.2.1** Face – 1/2" steel with (2) 3/4" plate supports and additional angle stiffeners. \_\_\_\_\_

**2.2.2** Sides 1/4" formed plate. \_\_\_\_\_

**2.2.3** Top 1/4" steel with 3" channels @ 12" spacing and 4" x 3" tube longitudinal top stiffeners. \_\_\_\_\_

**2.2.4** Bottom – 3/8" AR plate w/3" channels @ 24" spacing. \_\_\_\_\_

**2.3 PACKER FABRICATION DETAILS:**

**2.3.1** Floor plate 1/2" AR w/4" channel supports @ 12" spacing. \_\_\_\_\_

**2.3.2** Sides – 3/8" plate, 4" x 3" tube vertical stiffener and 3" x 2" Tube horizontal stiffener. \_\_\_\_\_

**2.3.3** Breaker Bar – 8" x 8" x 1" steel angle and 8" x 22.8# backing channel. \_\_\_\_\_

**2.3.4** Two (2) 8" channels x 22.8# with diagonal tube bracing provide rear stability. \_\_\_\_\_

**2.3.5** 12" channels surrounding hopper. \_\_\_\_\_

**2.3.6** Top rail: 5" x 3" x 1/4" tube/ Bottom rail: 4 x 4 x 3/8" angle gusseted. \_\_\_\_\_

**2.3.7** Additional floor and side stiffeners. Top deck sheet is standard. \_\_\_\_\_

**3.0 ELECTRICAL AND HYDRAULIC:**

**3.1** Motor 30 HP, 1800 RPM, T.E.F.C. 230/460 volt, 60 HZ, three phase wiring. \_\_\_\_\_

**3.2** 24V control circuit. System driven Guardian control panel and start-stop station are in NEMA 4 enclosures, designed to meet drip, dust, oil and rust-resistant tests. \_\_\_\_\_



- 3.3** Automatic cycle – turn key selector clockwise and release, the ram will extend, retract and stop automatically. Multi cycle capable. \_\_\_\_\_
- 3.4** Guardian Control panel with featured AMS (Automatic Maintenance Scheduler) and on board Self Diagnostic LCD Display. Manual forward with increased compaction pressure, manual reverse and emergency stop included. \_\_\_\_\_
- 3.5** Ram cylinders (1) 7” bore, 4.5” chromed rod, 120” stroke. Cylinder shall be steel bushed and pins shall be CR steel. \_\_\_\_\_
- 3.6** Hydraulic pump (gear) – at 27.0 GPM total Nominal and protected with a check valve. All pumps rated 3,000 PSI \_\_\_\_\_
- 3.7** Efficient 56 Gallon Reservoir with low temperature hydraulic oil, vent cap and external spin-on filter on the suction line. Oil level sight indicator and temperature gauge included. \_\_\_\_\_
- 3.8** Normal ram force 80,800 lbs. minimum. Maximum ram force – (@ face) 88,500 lbs. with 14” ram penetration. \_\_\_\_\_
- 3.9** Cycle time 62 seconds. \_\_\_\_\_
- 3.10** The start-stop station, using 30mm controls, includes 100% full container light and shut down system with override pack-out pressure to clear hopper. \_\_\_\_\_
- 3.11** The power unit will be completely self-contained and shall come complete with 12’-0” of hoses and power unit cover. The compactor shall accomplish a complete cycle with the use of an electronic limit switch. \_\_\_\_\_
- 3.12** The side height of the compactor from the ground shall be a minimum of 48 in. \_\_\_\_\_
- 3.13** Unit shall be “UL/CUL” Listed and be manufactured in compliance with ANSI Z.245.21. \_\_\_\_\_
- 3.14** Removable rear access cover with a minimum of (2) 20.5 x 29 in unrestricted access for inspection, maintenance and repair. \_\_\_\_\_
- 3.15** Removable left/right side access covers with a minimum of 26 x 27 in unrestricted access for inspection, maintenance and repair. \_\_\_\_\_

**4.0 OTHER DETAILS:**

4.1 Compactor weight: approximately 11,500 lbs. with power unit. \_\_\_\_\_

4.2 Ram penetration: 15” \_\_\_\_\_

4.3 Ram height: 30 1/2" \_\_\_\_\_

**5.0 PAINT: Hunter Green**

5.1 Compactor/Container to be scraped and ground and free of sharp edges. All surfaces to be thoroughly cleaned and primed with one (1) coat of a high Solids Low V.O.C. alkyd primer or equivalent, followed by one (1) coat of a high solids low V.O.C. enamel or equivalent. (STANDARD COLORS ONLY.) \_\_\_\_\_

**6.0 SILENCE OF SPECIFICATIONS:** The apparent silence of this specification and any supplemental specifications as to any details or the omission from it of a detailed description concerning any point shall be regarded as meaning that only materials of first quality and correct type, size and design are to be used. All workmanship is to be first quality. All interpretations of this specification shall be made upon the basis of this statement. \_\_\_\_\_

**7.0** Bid should include first year PM inspection of both compactors. This will include a complete inspection of the electrical and hydraulic. Inspect the overall structures of the compactors, draw oil sample for analysis then provide the city of Portsmouth with the results by email. \_\_\_\_\_

**8.0 DETAIL INSPECTION:** Upon delivery of equipment, the buyer will inspect the compactor to assure compliance with specifications. Failure to meet specifications authorizes the buyer to purchase compactor elsewhere. Any increase in cost or handling shall be paid by the defaulting contractor. \_\_\_\_\_

**List any deviations from the minimum acceptable specifications. Include warranty information.**



**DELIVERY:** Bidder must state approximate number of days from award that delivery will be made.

Approximate Number of Days for Delivery: \_\_\_\_\_

The undersigned agrees that he/she on behalf of Bidder has read the bid proposal documents, the instruction to bidders' specifications and agrees to the terms and conditions set forth herein. Bidder understands that bid prices shall include delivery FOB to the address identified in the bid documents and bid price shall be firm for at least 45 days.

Bidder further agrees that this bid is not made jointly or in conjunction, cooperation or collusion with any person, firm, corporation or other legal entity.

Bidder agrees no officer, agent or employee of the Owner is directly or indirectly interested in this Bid.

---

Submitted by Authorized Agent:

\_\_\_\_\_  
(Print Name & Title)

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

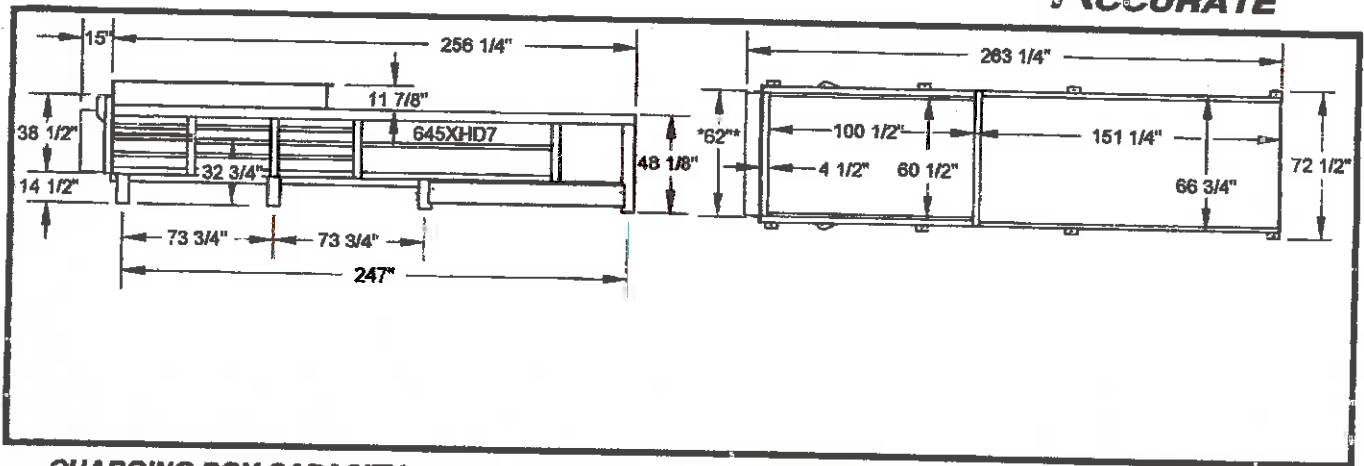
Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

E-mail address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_



**CHARGING BOX CAPACITY**

- |                              |             |
|------------------------------|-------------|
| 1. MANUFACTURERS RATING:     | 6.50 CU.YD. |
| 2. WASTEC RATING:            | 4.12 CU.YD. |
| 3. HOPPER WIDTH:             | 60.00"      |
| 4. HOPPER LENGTH:            | 100.50"     |
| 5. RAM HEIGHT:               | 30.50"      |
| 6. RAM PENETRATION:          | 15.00"      |
| 7. COMPACTOR WEIGHT WITH P.U | 14,400 LBS  |

**RAM DETAILS**

- 1/2 inch thick ram face plate with 3/4 inch thick stiffener plates
- Ram base is 3/8 inch A.R. plate with 3 inch channels @ 24 inch spacing
- Ram top is 1/4 inch plate with 3 inch channels @ 12 inch spacing
- Ram sides are 1/4 inch plate
- with 8 inch channel verticals at rear
- Additional ram face stiffener angles
- 4 x 3 tube longitudinal top stiffeners

**PACKER FABRICATION DETAILS**

- 1/2 inch thick A.R. floor plate with 4 inch channels @ 12 inch spacing
- 3/8 inch thick side plates with 4 x 3 tube vertical stiffeners and 3 x 2 tube horizontal stiffeners
- Top rail is 5 x 3 x 1/4 tube  
Bottom rail is 4 x 4 x 3/8 angle-gusseted
- Breaker bar is 8 x 8 x 1 angle
- 2- 8 inch channels (22.8#) with diagonal tube bracing provide rear stability
- 11 ga. top deck sheet is standard
- Additional side stiffener tubes
- 12 inch channels surrounding hopper
- 8 inch channel (22.8#) breaker bar backing
- Additional floor stiffeners

**ELECTRICAL - HYDRAULIC**

- |   |        |                 |              |
|---|--------|-----------------|--------------|
| 1. MOTOR HP:  | 30     | SERVICE FACTOR: | 1.15         |
| MOTOR RPM:  | 1800   | HOUSING TYPE:   | ODP          |
| VOLTAGE: 230/460, 3-PHASE, 60-HZ (extra charge for 200/400) |        |                 |              |
| 2. PUMP GPM:  | 27.00  | AUXILLIARY GPM: | 42.00        |
| PUMP TYPE:  |        | HI-LO           | GEAR         |
| 3. CYLINDERS:   | 1      | ALIGNMENT:      | STRAIGHT     |
| BORE:   | 7.00   | ROD:            | 4.50         |
|   |        | STROKE:         | 120.00       |
| 4. PSI REG:   | 2,100  | PSI MAX:        | 2,300        |
| RAM FORCE:  | 80,800 | MAX RAM FORCE:  | 88,500       |
| RAM FORCE PSI:  | 44.15  | RAM MAX PSI:    | 48.36        |
| 5. CYCLE TIME SEC:  | 30     | CU YD PER HR:   | 501          |
| 6. TANK GAL:  |        |                 | 270          |
| 7. PU LOCATION:   |        |                 | REMOTE       |
| 8. CONTROL CIRCUIT:   |        |                 | 110V         |
| 9. RAM CYCLE CONTROL:                                       |        |                 | LIMIT SWITCH |
| 10. Automatic cycle   |        |                 |              |
| Turn key switch   |        |                 |              |
| Ram extends, retracts, and stops automatically              |        |                 |              |

**INCLUDED FEATURES**

- Cylinder Mid-support
- Full container indicator light included
- UL Listed control panel
- Final packout pressure override

**CONTAINER SPECIFICATIONS**

Recommended for use with:  
 XHD roll off containers 40 to 60 Cu.Yd.  
 Rated @ 90,000#  
 1 3/4 ratchet binders with 2 inch hooks standard