



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Solicitation

NUMBER
7013EC05

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
ALAN CUMMINGS 304-558-2402

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED
03/29/2013

BID OPENING DATE: 04/24/2013 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO.04						
ISSUED TO DISTRIBUTE VENDOR QUESTIONS AND AGENCY RESPONSES. BID OPENING DATE AND TIME HAVE CHANGED FROM 04/03/2013 AT 1:30 P.M. TO 04/24/2013 AT 1:30 P.M.						
0001		EA		065-30		
	DUMP BODIES, TRUCK					
***** THIS IS THE END OF RFQ 7013EC05 ***** TOTAL:						

SIGNATURE		TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

SOLICITATION NUMBER: 7013EC05
Addendum Number: 4

The purpose of this addendum is to modify the solicitation identified as (“Solicitation”) to reflect the change(s) identified and described below.

Applicable Addendum Category:

- | Modify bid opening date and time
- | Modify specifications of product or service being sought
- | Attachment of vendor questions and responses
- | Attachment of pre-bid sign-in sheet
- | Correction of error
- | Other

Description of Modification to Solicitation:

ISSUED TO DISTRIBUTE VENDOR QUESTIONS AND AGENCY RESPONSES. BID OPENING DATE AND TIME HAVE CHANGED FROM 04/03/2013 AT 1:30 P.M. TO 04/24/2013 AT 1:30 P.M.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: 7013EC05

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company

Authorized Signature

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012

ADDENDUM NO. 4 FOR PRE-BID

7013EC05

The original language in contract will be listed first with question and answer to follow below.

1. 3.1.1.2.1 The Frame must have the following dimensions:

- A. Rear of cab to center of rear axle: Minimum – 101” Maximum – 102”
- B. Rear of cab to end of frame rail: Minimum – 152”, Maximum – 102”.
- C. Wheelbase: Minimum 169”, Maximum 170”. The wheelbase must also be of a forward design to allow for snowplow applications.

Question: Heritage Truck Center: During the session the Ford representative asked about using a different wheelbase that would have the same requested “Minimum – Maximum” dimensions in A and B. We fully understand the request he is making. Snow plow applications are usually built on a SFA (Set Forward Axle) chassis to get the best weight loading of the snow plow when in use. You ask for this, but because of © it is impossible to have this with Ford or International. Would suggest a simple remedy; revise paragraph (C) to read: Wheelbase: Minimum 169”, Maximum 177”. The wheelbase must also be of a forward design to allow for snow plow application. Paragraphs (A) and (B) remain as written.

Answer: 3.1.1.2.1 A, B, and C will remain as written.

2. 3.1.1.2.2 The frame must have an integral front frame extension with no frame cutouts other than cutouts necessary to allow for engine installation. The frame extension shall extend past the grill area a minimum of 12”, maximum 24”.

Question # 1: Thornhill Ford: Will the Ford F-750 with a bolt-on frame extension be acceptable or will it cause my bid to be rejected?

Answer: No, a bolt on extension is not acceptable.

Question # 2: Heritage Truck Center: Since the PTO is run off an Allison transmission, do you still want the integral front frame extension (older trucks used to use a engine mounted power take-off and required this feature for the mounting of the pump) ?

Answer: Yes, Extension is for snowplow.

Question # 3: Heritage Truck Center: If the above is upheld, our integral frame extension is 27" ILO 20". Can we have the body company modify to 20"?

Answer: Yes

Question # 4: Heritage Truck Center: Do you want front tow hooks with the truck?

Answer: Yes, We will add a new section 3.1.1.2.7 which will read:

3.1.1.2.7 A front frame mounted tow hooks or eyes accessible through the bumper.

3. 3.1.1.2.4 R.B.M. : Minimum – 2,040,000 Ins./Lb. per rail.

Question: Matheny Motors: The R.B.M. of our rail is 1,933,200 Ins./Lb. not the requested 2,040,000 Lbs.-Ins. R.B.M. Is this acceptable?

Answer: This will be changed to read:

3.1.1.2.4 R.B.M.: Minimum – 1,933,200 Ins/Lb. per rail

4. 3.1.1.2.6 The factory bumper shall be omitted.

Question: What bumper needs to be installed?

Answer: Refer to section 3.1.2.12 in solicitation

5. 3.1.1.4.5 Dual speedometer leads.

Question: Do we need dual?

Answer: Yes, mandatory

6. 3.1.1.4.13 An air actuated or cable control valve shall be provided for a unit with front air intake.

Question: Heritage Truck Center: An air actuated or control cable is not necessary for side air intake?

Answer: That is correct.

7. 3.1.1.5.1 Dash mounted two (2) cup drink holder as provided by the manufacturer.

Question: Heritage Truck Center: Accessories – Does the WVDOH desire any type of dash mounted 12V port?

Answer: No, 3.1.1.5.12 states Accessories not indicated above but are included in the manufacturer's standard cab shall be provided.

8. 3.1.1.5.6 The cab shall have dual power windows.

Question: Heritage Truck Center: Should it also include "power door locks"?

Answer: No, 3.1.1.5.12 states Accessories not indicated above but are included in the manufacturer's standard cab shall be provided.

9. 3.1.1.5.11 The cab shall contain an emergency triangle warning kit, with hold down and shall be KD610-464S, KD Lamp Co. or equal. Such emergency triangle warning kit must be properly affixed to the cab. (Check with DOH before mounting)

Question/Suggestion: Matheny Motors: Add a 2.5 Lb. Fire extinguisher to your requirement of emergency triangle warning kit. All your Dump trucks have a fire extinguisher and this would be a continuation on having a dealer mounted fire extinguisher in the cab of the truck.

Answer: Yes, we will add the following language to 3.1.1.5.11 and it will now read as:

3.1.1.5.11 The cab shall contain the following safety/emergency items. Emergency triangle warning kit, with hold down and shall be KD610-464S, KD Lamp Co. or Equal. Such emergency triangle warning kit must be properly affixed to the cab. (Check with DOH before mounting). In addition a 2.5 lb. fire extinguisher shall also be included.

10. 3.1.1.6.2 Meet current EPA requirements without the use of credits.

Question: Heritage Truck Center: We respectfully ask that this paragraph be removed from this RFQ? See letter from Randall Ray of the Navistar Engine Group concerning the resending of the language in

this paragraph. Mr. Ray addresses the usage of a standard different than federally written regulation as being “a de facto changing of environmental law.” The Environmental Protection Agency has granted Navistar approval to produce and build truck products with the MaxxForce DT engine as would be quoted in this RFQ. To enforce this section would be deemed to eliminating Heritage International Trucks, Inc. from bidding our product with an engine that does not meet current USEPA guidelines for emissions.

Answer: Remains as written, it was determined 3 years ago that we will not accept credits.

11. 3.1.1.6.6 Have a compression, exhaust or combination thereof engine brake.

Question: Heritage Truck Center: Does this statement mean that the engine exhaust brake alone is acceptable?

Answer: Yes

12. 3.1.1.9.2 Have a brushless alternator. The alternator will have an internal regulator and capable of producing 105 AMPS or greater.

Question # 1: Heritage Truck Center: Should alternator produce at least 180 AMPs minimum given all the electrical lighting and equipment being operated over long periods?

Answer: No, see question # 2 below.

Question # 2: Matheny Motors: Suggest changing the 105 AMP. Brushless alternator size to minimum of 135 Amp?

Answer: Yes, we will increase the amp to 135, and it will read as:

3.1.1.9.2 Have a brushless alternator. The alternator will have an internal regulator and capable of producing 135 AMPS minimum.

13. 3.1.1.10 Drivetrain

Question/Suggestion: Matheny Motors : All your current dump trucks have two (2) front frame mounted tow hooks or eyes. I would suggest your consideration of adding this option to bid request?

Answer: Question # 2 is addressing this we are adding section 3.1.1.2.7 and it will read as:

3.1.1.2.7 A front frame mounted tow hooks or eyes accessible through the bumper.

14. 3.1.1.10.4 Have a single reduction, drive controlled main locking differential.

Should read: Have a single reduction, driver controlled main locking differential.

15. 3.1.1.10.8 Have a rear axle differential, transmission, and front wheel lubrication reservoirs. The lubrication reservoirs shall be filled with synthetic type lubrication and must provided with magnetic drain plugs where applicable.

Question: Heritage Truck Center: Does the WVDOH desire synthetic oils in front wheel bearings, transmission, and rear end?

Answer: See section 3.1.1.10.8 also listed above.

16. 3.1.1.10.10 Have a front spring capacity of 14,000 lbs. or more.

Question # 1: Heritage Truck Center: Should the front springs not be a vocational type "multileaf" shackle type with reduced deflection for use with snow plow?

Answer: We will revise to include description of multileaf.

3.1.1.10.10 will read as: Have a front spring capacity of 14,000 lbs. or more, vocational type multileaf shackle type.

Question # 2: Thornhill Ford: Will 14,000 lbs. parabolic front springs be acceptable or will it cause my bid to be rejected?

Answer: Parabolic springs are not acceptable. The DOH has found the multileaf works better for snowplowing.

17. 3.1.1.11.1 The front and rear wheels will be 22.5 x 8.25, hub piloted steel disc type. This size is necessary to accommodate the specified tire size below.

Question/Suggestion: Matheny Motors: Bid request standard factory wheels. I would suggest consideration of using Accuride 28828 wheels. The Accuride wheels are .472" thickness which will give you longer wheel life and are the same wheels you currently have on all your single axle dump/plow trucks.

Answer: We will change this to read:

3.1.1.11.1 The front and rear wheels will be 22.5 x 8.25, hub piloted steel disc type, Accuride 28828 or Equal. This size is necessary to accommodate the specified tire size below.

18. 3.1.1.11.2 The front tires shall be 11R22.5H. These tires shall be highway tread design, radial, tubeless, have load range H and must be 16 ply.

Question: Heritage Truck Center: May we use the Continental 11R22.5 HSC-1 16 ply tire?

Answer: Yes

19. 3.1.1.11.3 The rear tires must be 11R22.5G and shall be Goodyear G-G244 MSD, Michelin XDY-3 or equal. These tires shall be on/off highway lug tread design, radial, and tubeless.

Question: Heritage Truck Center: May we use Continental 11R22.5 HDR-2 16 ply tires on the rear?

Answer: Yes

20. 3.1.2 Combination Dump/Spreader Body

Question # 1: Highway Equipment Co.: I'm asking if the Administration at WVDOH would reconsider their decision on the body to allow Elliptical Body designs to be considered as a valid product offering?

While we do not offer a full width flat floor, the XT3 Type III Multi-Purpose Dump Body possesses the characteristics of a material hauling dump body as well as having the ability to spread deicing materials at the rear of the box. The flat area of the dump body floor allows hauling of virtually anything, including pallets and barrels. It also dumps with a front telescopic hoist that eliminates the need for a sub-frame. The Elliptical design allows for better material flow while the conveyor is in use without the need to raise the body to clean out flat areas required with a traditional flat floor body. With our design and the inside width of the body being equal to the outside we are capable of hauling more material at a lower center of gravity creating both a more efficient and safer unit. Being able to haul more material per load will result in both a time and fuel savings for the department. Our floor design also has an added benefit of spreading the vertical force of the load to our flanged long rail members connection points. While we can meet the remainder of the specifications intent we would be at a distinct disadvantage if the decision to only allow proposals for full width flat floor designed bodies was upheld.

Answer: The WVDOH stands with the specifications as written for a flat floor design.

Question # 2: Ace Truck Equipment: Can you change this to read :

SPECIFICATIONS 201 STAINLESS STEEL FLAT FLOOR COMBINATION DUMP/SPREADER BODY?

Answer: Yes, for clarification purposes 3.1.2 will now read as:

3.1.2 SPECIFICATIONS 201 STAINLESS STEEL COMBINATION DUMP/SPREADER BODY WITH FLAT FLOOR

21. 3.1.2.2 .2 The inside width of spreader body – Shall have a minimum width of 88 inches to maximize capacity and lower the center of gravity of the unit.

Question # 1: Ace Truck Equipment: Would the state consider a minimum width of 86 inches?

The body at 86" width plus the corner posts approximately 5" width to accommodate lights provides the overall outside width of the spreader to be 96" as stated in spec 3.1.2.2.3.

Question # 2: Air Flow MFG. Co.: Is minimum inside body width of 84" acceptable?

Question # 3: Swenson Spreader: Would the State accept the inside width of 84 inches?

Answer: We will adjust minimum to 86" minimum and it will read:

3.1.2.2.2 The inside width of spreader body – Shall have a minimum width of 86 inches to maximize capacity and lower the center of gravity of the unit.

22. 3.1.2.2.3 The outside width of the spreader body shall be 96 inches at the integral fenders.

Should read : The outside width of the spreader body shall be 96 inches maximum at the integral fenders to rub rail.

23. 3.1.2.2.5 Minimum side height (measured from the floor to top rail): 30 inches.

Question: Air Flow MFG. Co.: What type of bracing to be used?

Answer: See question # 27 for answer.

24. 3.1.2.2.8 The cab protector shall be sloped rearward and maintain adequate clearance for cab mounted air horns, the minimum dimensions are 24 inches x 94 inches.

Question: Air Flow MFG. Co.: Is an 84" width cab shield acceptable?

Answer: No

25. 3.1.2.3.2 Have 1/4 inch AR400 floor.

Question: Air Flow MFG. Co: Is the desired floor a sloped design or does it need to be completely flat horizontal?

Answer: Flat Horizontal

26. 3.1.2.3.7 Have a set of two (2) piece 201 stainless steel formed tubular longitudinal (consisting of both an inner and outer formed long sills). The inside formed longitudinal shall be constructed of ¼" 201 stainless steel and the outside formed longitudinal shall be constructed of 7 gauge 201 stainless steel with a minimum combined overall height of 12" (including the internal stainless steel gussets). There shall be a ¼" thick stainless steel "fish plate" welded to the outside longitudinal above the rear hinge.

Question # 1: Air Flow MFG. Co.: Is (our standard) Trapezoidal Longitudinal shape acceptable?

Answer: No, the specifications will remain as written.

Question # 2: Air Flow MFG. Co.: Is ¼" thick internal wall with 7 gauge external wall longitudinal acceptable?

Answer: No, as specified in 3.1.2.3.7

27. 3.1.2.3.10 Must have one piece sides of 201 stainless material.

3.2.2.4.1 The box top rail to slope inward to shed debris.

Question/Suggestion: Ace Truck Equipment: We are asking that sections 3.1.2.3.10 and 3.2.2.4.1 be incorporated with 3.1.2.2.5? It should read as Minimum vertical side height shall be 30 inches (measured from the floor to top rail) and shall be one piece sides with a boxed dirt shedding top rail and bottom rub rail with one single 201 stainless steel weld on dirt shedding horizontal side brace per side running full length.

Answer: We will delete 3.1.2.3.10 and 3.2.2.4.1, These items will be incorporated with 3.1.2.2.5 and will read as:

3.1.2.2.5 Minimum vertical side height shall be 30 inches (measured from the floor to top rail) and shall be one piece sides with a boxed dirt shedding top rail and bottom rub rail with one single 201 stainless steel weld on dirt shedding horizontal side brace per side running full length.

28. 3.1.2.4.1 Have a conveyor driven by a 25:1 planetary gearbox drive or equal with 8.0 CID hydraulic motor mounted on the rear shafts.

Question # 1: Monroe Truck Equipment: Would two (2) 6:1 spur gear boxes be considered equal to a 25:1 planetary?

Answer: No, this is not acceptable.

Question # 2: Swenson Spreader: Can the conveyor be driven by a Direct Drive Motor?

Answer: No, this is not acceptable.

29. 3.1.2.4.5 Have drive sprockets be double keyed to shaft.

Question # 1: Monroe Truck Equipment: Can the drive sprockets have only one ½" key in lieu of double key? The gear box only has one key.

Answer: No, this is not acceptable.

Question # 2: Viking : Is one drive on unit acceptable?

Answer: No, this is not acceptable.

30. 3.1.2.4.7 Have an inner sill constructed of ¼ inch/7 gauge 201 stainless steel which will form the conveyor chain.

Question # 1: Ace Truck Equipment: Is the state asking for ¼" or 7 gauge 201 stainless steel?

Answer: We will take out 7 gauge and it will then read as:

Have an inner sill constructed of ¼ inch 201 stainless steel which will form the conveyor chain.

Question # 2: Monroe Truck Equipment: Are bolt-on chain guards acceptable in lieu of formed? Bolt-on allows replacement of damaged guards easier.

Answer: No

31. 3.1.2.4.9 Have a conveyor bed floor constructed of 3/16 inch, AR400 material with 190,000 PSI yield, 200,000 PSI tensile strength and have Brinnell Hardness of 400.

Question: Ace Truck Equipment: Would the state consider ¼ inch AR400 material.

Answer: We will take out 3/16" and add ¼ inch, it will then read as:

Have a conveyor bed floor constructed of ¼ inch, AR400 material with 190,000 PSI yield, 200,000 PSI tensile strength and have Brinnell Hardness of 400.

32. 3.1.2.4.10 Have a formed 3/8 inch thick tie plate extend between the left and right side of the body, located at the rear of the unit. This tie plate will provide additional structural support at the rear of the body to prevent sagging at the rear corner posts.

Question # 1: Monroe Truck Equipment: Would a ¼" formed channel that meets or exceeds the structural strength of a 3/8" tie plate be acceptable to tie the rear corner posts together?

Answer: No, 3/8" offers greater strength.

Question # 2: Air Flow MFG. Co. Inc.: In our design, a tie plate extending between the left and right side of the body located at the rear of the unit would inhibit material flow from the conveyor. Would a body design of sufficient strength to prevent sagging at the rear corner post be acceptable without use of the above plate?

Answer: No, tie plate must run full width for support.

33. 3.1.2.4.11 Have a D667K pintle type conveyor chain rated at 24,000 lb. tensil/strand, with a minimum 3/8" x 1 1/2" conveyor crossbars welded to every link.

Question: Monroe Truck Equipment: Would 667XH chain with a rated 26,000 lb. tensile/strand be acceptable?

Answer: Yes

34. 3.1.2.5.1 Be located in the rear of the body tailgate and constructed of 7 gauge, 304 stainless steel. The dimensions of the tailgate shall be 10 inch minimum to 12 inch maximum x 24 inch minimum to 26 inch maximum.

Question # 1: Monroe Truck Equipment: Can the rear feed gate be manufactured of 201 stainless like the rest of the body instead of 304 stainless?

Question # 2: Ace Truck Equipment: Since the rest of the body is constructed of 201 SS would the state consider changing the feed gate from 304 SS to 201 SS?

Answer: We will take out 7 gauge, and 304 stainless steel and change it to 201 Stainless Steel.

It will then read as:

3.1.2.5.1 Be located in the rear of the body tailgate and constructed of 201 stainless steel. The dimensions of the tailgate shall be 10 inch minimum to 12 inch maximum x 24 inch minimum to 26 inch maximum.

35. 3.1.2.6.5 Constructed of 409 or 304 stainless steel.

Question # 1: Swenson Spreader: Should this be 201 instead of 304?

Question # 2: Monroe Truck Equipment: Can the spinner disc be constructed of 201 stainless like the rest of the body instead of 304 stainless?

Answer: We will take out 409 stainless steel. It will then read as:

Constructed of 304 or 201 stainless steel.

36. 3.1.2.6.6 Be enclosed in a removable material shedding protective cover if the spinner hydraulic motor is mounted on top of spinner disc.

Question: Henderson: Clarification of:

3.1.2.6.6 Spinner Hyd. Motor shall be mounted on top of spinner disc, motor shall be enclosed in a removable material shedding protective cover.

37. 3.1.2.7.5 The hoist hinge shall have a 6 inch x 8 inch x ½ inch structural angle rear hinge assembly installed in the truck chassis frame (no hoist subframe). The rear hinge assembly shall have cold roll steel hinge pins connecting to 2 ½ inch hinge blocks with grease zerks.

Question # 1: Ace Truck Equipment: Is a formed angle ilo structural angle acceptable?

Answer: Yes

Question # 2: Monroe Truck Equipment: Would a 4" x 4" x ½" rear hinge with 2" stainless pins, Delrin bushings with grease zerks, be acceptable in lieu of specified?

Answer: No

38. 3.1.2.8.6 Have 201 stainless steel gussets (board pockets) to accommodate 4 inch x 6 inch rough cut lumber located at front, mid-rail and rear of the body. 4 inch x 6 inch (rough) oak sideboards will be supplied by the vendor and bolted through the gussets.

Question: Air Flow MFG Co.: Is 4x6 sideboards a typographical error or is it meant to be a more common 2x6 size?

Answer: No, they are 4 x 6.

39. 3.1.2.8.7 Have an air operated tailgate with a full width cross shaft and a single air brake chamber.

Question: Monroe Truck Equipment: Would two (2) double acting air cylinders, one located in each rear corner post with over-center lock be acceptable in lieu of one cylinder with a cross shaft?

Answer: No

40. 3.1.2.8.8 Have a hopper screen to prevent oversized material from entering the hopper during filling.

Question # 1/Suggestion: Monroe Truck Equipment: We are suggesting that more details regarding the hopper screens be provided? Suggestion: reads as follows:

Top Screens: The body shall have full length, tapered top screens. The top screen assembly shall be designed to have the ability to be removed or installed as a single unit. There shall be a frame assembly that rests on the body's top rails and is secured within the body's board pockets. There shall be two 4" x 7" x ¼" angles that rest on the top rails of the body and extend the length of the body within the board pockets. The angles shall have 4" x 2" x ¼" cross tubes at the front and rear of the assembly that are attached to the 7" leg of the angles. The cross tubes will support the centered top beam for the top screens. The top beam shall be 3-1/2" schedule 80 pipe, capped on both ends and will rest in ½" contoured saddles that attach to the cross tubes. The top beam will have two ¾" lift points to allow removal or installation as an assembly. The top beam shall have six top screen attaching hinge plates for both left and right top screens. The top screens shall be constructed of 3/8" rods welded to form a 2.5" square mesh which is formed by a combination of ¼" x 1-1/2" flat steel and 2" angle iron with the edge supports reinforced by ¼" x 1" flat steel bars. There shall be a total of four top grates, two each side and be retained to the beam hinges with .500-13 x 1.75 G8 HHCS ZC bolts and .500-13 GC Toplock C&W nuts. The front screens shall be notched and reinforced for dog house clearance. The rear screens shall be notched and reinforced for the rear, upper tailgate hinge assembly. The tailgate of the body shall be fully functional with the screens in place. All weldments shall be shot blasted, proceed through a five stage wash system and be powder coated black, prior to assembly.

Question # 2 /Suggestion: Ace Truck Equipment: Vendor is suggesting that 3.1.2.8.8 reads as follows:

The spreader body shall have top screens fabricated of minimum of 3/8" diameter steel rods set into a frame fabricated of 2" x 2" x 3/16" minimum angle iron. The grid openings shall be a maximum of a 3" x 3" square opening. All grid rod ends shall be welded to the screen frame. Screens shall not extend beyond the sides of the dump body (hopper) top rail or sideboards. The top screen assembly shall be supported by a center mounted 3" x 3" x ¼" structural angle with a rear cross member support system. It shall be designed so that each screen section when raised will stay in an over center safety position. Screens and their support system shall be designed with adequate strength to handle a 2CY (cubic yard) weight load of sand and or salt while in a horizontal operating position.

Answer: We will change 3.1.2.8.8 Have a hopper screen to prevent oversized material from entering the hopper during filling.

To:

The spreader body shall have hopper screens which shall:

- A. Be fabricated of 3/8" minimum diameter steel rods set in to frame. Fabricated of 2" x 2" x 3/16" minimum angle iron.
- B. Have grid openings of 3" x 3" maximum.
- C. All grid rods shall be welder to screen frame.
- D. Not exceed beyond the sides for the top rail/sideboards.
- E. Have a top screen supported by a center mount 3" x 3" x 4" structural angle with a rear cross member support system.
- F. Have screen and support system which shall support 2Cy wt. load of sand or salt, while in a horizontal operating position.

41. 3.1.2.10.4 Have latch hooks made of 3/4 inch 201 stainless steel.

Question: Monroe Truck Equipment: Our standard latch hooks for this size body is 1/2 ", is this acceptable in lieu of 3/4"?

Answer: Yes

42. 3.1.2.10.5 Have latch plates made of 3/8 inch 201 stainless steel.

Question # 1 /Suggestion: WV Tractor: You need to add the word minimum?

Question # 2: Monroe Truck Equipment: Our standard latch plates are 1/2" for this size body. Is 1/2" acceptable in lieu of 3/8", it exceeds?

Answer: Yes, We have added the word minimum, so it will now read as:

Have latch plates made of 3/8 inch minimum 201 stainless steel.

43. 3.1.2.10.8 Have cold roll steel upper pins with grease zerks.

Change: We will change this to read:

Have 201 stainless steel upper pins with grease zerks.

44. 3.1.2.12 Bumper – The spreader body must have a tailgate bumper that must:

Question: Monroe Truck Equipment: Is the wording “tailgate bumper” a misprint?

Answer: This shall read:

3.1.2.12 Bumper – The front of chassis must have front bumper that must:

45. 3.1.3.10.2 Be front mounting flange with a main housing/case constructed of cast iron. Inlet and outlet port section shall be high strength ductile iron and SAE split flange porting.

Question: Force America: Would SAE O-ring connections ilo of flange porting for pump suction and pressure connections be acceptable? 3.3.10.6 allows SAE o-ring connection for case drain and load sense connections.

Answer: Please see section 3.1.3.10.4 and section 3.2.3.18.2

Section 3.2.3.18.2 We will move to this to the mandatory side and it will now become 3.1.3.18.8 and will read as:

3.1.3.18.8 Have a suction hose that shall be 2” nominal ID and meet SAE Specification 100R4. Have braided fiber, spiral wire reinforced, rubber covered hose with replaceable bolt-on type fittings.

46. 3.1.3.12.5 Have pressure compensation of the spinner and auger sections and also a priority section installed to allow for operation of the plow hoist in any circumstance.

Question: Force America: Can this be changed to read “have pressure compensation for the spinner and auger sections. Plow hoist must operate in any circumstance. Use of priority valve allowed if required by valve design”?

Answer: We will add and will read as:

3.1.3.12.5 Have pressure compensation of the spinner and auger sections and also a priority section installed to allow for operation of the plow hoist in any circumstance; If valve is of a post compensated design, the priority section maybe replaced with normal section.

47. 3.1.3.15.9 Contain backlighted switches and color touch screen for on-board programming, display readout and application rate selection.

Question: Force America: Is a VFD (vacuum Fluorescent) or LCD (liquid crystal) display with button navigation (ilo touch screen) acceptable?

Answer: No, the WVDOH prefers touch screen for ease of programming.

48. 3.1.3.21.1 Be mounted vertically, on the frame rails, behind the rear of the cab and dump body and shall:

Question: Highway Equipment Company: Would the agency consider tanks which would remain in a fixed horizontal position regardless of the body position? This would allow for better weight distribution and would keep the required overall chassis length shorter.

Answer: The pre-wet tank is mounted in a fixed horizontal position between cab and dump body.

49. 3.2 Contract Items and Non-Mandatory or Desirable Requirements:

Question # 1: Monroe Truck Equipment: How will the requested items be accounted for?

Answer: Verified during inspection of pilot model.

Question # 2: Monroe Truck Equipment: Are they to be bid as options?

Answer: No

50. 3.2.1.4.1 Heavy Duty Air Filter Element type.

Question: Heritage Truck Center: Should add the verbage "Dual Element" and move to mandatory?

Answer: Remains as written.

51. 3.2.1.6.1 Have zinc, nickel plated aluminum or non-corrosive engine oil pan.

Question: Heritage Truck Center: Move this to mandatory?

Answer: We will delete 3.2.1.6.1 and move this to mandatory and will be 3.1.1.6.7 and will read as:

3.1.1.6.7 Have zinc, nickel plated aluminum or non-corrosive engine oil pan.

52. 3.2.1.6.2 Provide electronic speed control including throttle and cruise control.

Question / Suggestion: Matheny Motors: We recommend that this becomes mandatory?

Answer: We will delete 3.2.1.6.2 and move to mandatory and will be 3.1.1.6.8 and will read as:

3.1.1.6.8 Have electronic speed control including throttle and cruise control.

53. 3.2.1.9 Electrical System: The truck cab and chassis will have an electrical system that may:

Question: Heritage Truck Center: The use of the word "may" in this section indicates that a vendor may choose to "not" provide the option and be acceptable. Is this the correct assumption?

Answer: Yes

54. 3.2.1.9.1 Have jump start studs mounted on the outside of battery box.

Question: Heritage Truck Center: Move this item to mandatory?

Answer: We will delete 3.2.1.9.1 and move this to section 3.1.1.9, the new number will be 3.1.1.9.10 and it will read as:

3.1.1.9.10 Have jump start studs mounted on the outside of battery box.

55. 3.2.1.9.2 Have weatherproof plug located at lower left front grille/bumper area. All wiring connections should be weatherproof with wiring encased in wire looms. Placement location should be discussed with WVDOH representative before pilot review.

Question # 1: Heritage Truck Center: We feel this item should be tied to your mandatory paragraph section 3.1.1.9.6. Can you please move to mandatory?

Question # 2: Ace Truck Equipment: Is asking the same question as above.

Answer: We will delete 3.2.1.9.2 and move this section to 3.1.1.9.11 and will read as:

3.1.1.9.11 Have weatherproof plug located at lower left front grille/bumper area. All wiring connections shall be weatherproof with wiring encased in wire looms. Placement location shall be discussed with WVDOH representative before pilot review.

56. 3.2.1.9.3 Have provisions for 7-way trailer connection light socket mounted at the rear of truck frame. Plug should be Cole Hersee #12063 or equal.

Question # 1/Suggestion: Ace Truck Equipment: This item refers to the plug that would go with "Mandatory" items 3.1.1.10.13 and 3.1.1.10.14.

Question # 2/Suggestion: Heritage Truck Center: Should be added to section 3.1.1.10. Same question as above.

Answer: We will delete section 3.2.1.9.3 and move to section 3.1.1.10.16 and it will read as:

3.1.1.10.16 Have provisions for 7-way trailer connection light socket mounted at the rear of truck frame. Plug shall be Cole Hersee #12063 or equal.

57. 3.2.1.10 Drivetrain

Question: Heritage Truck Center: Does the WVDOH desire synthetic oils in front wheel bearings, transmission, and rear end?

Answer: See section 3.1.1.10.8

58. 3.2.1.10.1 Have front wheel oil lubricated wheel seals, Stemco or equal.

Question/Suggestion: Heritage Truck Center: We feel this entire paragraph should be moved into an existing paragraph and put in section 3.1.1.10.9 as part of the Front Axle Description?

Answer: We will delete 3.2.1.10.1 and incorporate it with section 3.1.1.10.9 and it will read as:

3.1.1.10.9 Have "I Beam" type front axle with a minimum capacity of 14,000 lbs. It shall also have front wheel oil lubricated wheel seals, Stemco or equal.

59. 3.2.1.10.5 Have sealed brake chambers with epoxy exterior coat on front and rear chambers; MGM, Anchorlok or equal.

Question /Suggestion: Heritage Truck Center: We would like this moved to section 3.2.1.10.12?

Answer: We will delete 3.2.1.10.5 and move and incorporate it with 3.1.1.10.12 and it will read as:

3.1.1.10.12 Meet or exceed all current FMVSS requirements for air brakes. It shall have sealed brake chambers with epoxy exterior coat on front and rear chambers; MGM, Anchorlok or equal.

60. 3.2.1.10.6 Have air dryer with heater, Bendix, Westinghouse, AD9 or equal.

Question # 1/Suggestion: Matheny Motors: I believe the non-mandatory option of "Have air dryer with heater, Bendix, Westinghouse, AD9 or equal should be a mandatory option. This option helps to keep the brake lines from freezing by removing the excess moisture in the lines. Your current dump trucks have this option.

Question # 2: Heritage Truck Center: This needs to be mandatory and moved to 3.1.1.10.12?

Answer: We will delete 3.2.1.10.6 and move it to 3.1.1.10.16 and it will read as:

3.1.1.10.16 Shall have air dryer with heater, Bendix, Westinghouse, AD9 or equal.

61. 3.2.1.10.9 Have brake dust covers on all wheels.

Question: Heritage Truck Center: Some manufacturers have these standard, but for others it is an added cost code front and back. Will you make these mandatory and move to section 3.1.1.11?

Answer: We will delete 3.2.1.10.9 and move to mandatory section 3.1.1.11.4 and it will read as:

3.1.1.11.4 Shall have brake dust covers on all wheels.

62. 3.2.1.11.1 All wheels to include wheel guard separators.

Question/Suggestion: Heritage Truck Center: We would like these moved to the mandatory section 3.1.1.11.

Answer: We will delete 3.2.1.11.1 and move it to mandatory section 3.1.1.11.5 and it will read as:

3.1.1.11.5 All wheels shall include wheel guard separators.

63. 3.2.2.3 Spreader body sides, front, head and tailgate construction:
The following items are non-mandatory but desirable;

3.2.2.3.1 Rear corner posts of one (1) piece construction.

Question: Ace Truck Equipment: We would like 3.2.2.3 moved to mandatory section and to rewrite 3.2.2.3.1 to read as Rear corner posts of one (1) piece construction and full depth?

Answer: We will delete 3.2.2.3.1 and move to mandatory section 3.1.2.3.11 and it will read as:

3.1.2.3.11 Rear corner posts of one (1) piece construction and full depth.

64. 3.2.2.4.1 The box top rail to slope inward to shed debris.

Question: Ace Truck Equipment: Is box top rail to slope outward to shed debris acceptable?

Answer: We are deleting 3.2.2.4.1 and moving it to 3.1.2.2.5 and this is to read as:

3.1.2.2.5 Minimum vertical side height shall be 30 inches (measured from the floor to top rail) and shall be one piece sides with a boxed dirt shedding top rail and bottom rub rail with one single 201 stainless steel weld on dirt shedding horizontal side brace per side running full length.

65. 3.2.2.6 Spinner Assembly: The following items are non-mandatory but desired:

3.2.2.6.1 The successful vendor should install the rear spinner chute and brackets for rear spreading.

Question: Ace Truck Equipment: Vendor would like this section added to the mandatory section?

Answer: We will delete this section and move it to mandatory section 3.1.2.6.7 and it will read as:

3.1.2.6.7 The successful vendor shall install the rear spinner chute and brackets for rear spreading.

66. 3.2.2.8 Spreader Body Features: The following features are desired;

3.2.2.8.1 The body vendor should align exhaust stack for body clearance.

3.2.2.8.2 A 201 stainless steel fold down ladder that locks into position when either in the up or down position.

3.2.2.8.3 One (1) 201 stainless steel grab handle.

Question: Ace Truck Equipment: We would like these items moved to mandatory section?

Answer: We will delete these items and move to the mandatory section 3.1.2 Combination Dump/Spreader and will be under 3.1.2.1 General and will read as:

3.1.2.1.5 The body vendor shall align exhaust stack for body clearance.

3.1.2.1.6 Have a 201 stainless steel fold down ladder that locks into position when either in the up or down position.

3.1.2.1.7 Have one (1) 201 stainless steel grab handle.

67. 3.2.2.9 Lighting: The following features are desired;

3.2.2.9.1 Rear lights which are shock mounted, recessed oval stop, tail, turn, and back-up lights mounted in the back post. Strobe lights, Truck Lite 60360Y or equal, marked and switched from dash board location.

3.2.2.9.2 Three (3) center rear, I.D. lights located in truck chassis.

3.2.2.9.3 Have two (2) amber oval LED strobe lights mounted at: Front corners of the cab protector and two (2) at each outside corner of cab protector.

Truck Lite 60122Y or equal marked and switched from dash board location.

3.2.2.9.4 Have two (2) amber oval LED strobe lights mounted at the top of rear corner posts right and left sides and switched in conjunction with cab protector strobe. Truck Lite 60122Y or equal.

3.2.2.9.5 A lighted license plate bracket.

3.2.2.9.6 Auxiliary headlights to be shock mounted on fender of unit. Truck Lite 80800 with 27008 bulb or equal.

Question # 1: Ace Truck Equipment: Vendor would like section 3.2.2.9 along with 3.2.2.9.1 through 3.2.2.9.6 moved to mandatory requirements?

Question # 2: J & J Truck Bodies Div.: Would like to see lighting section moved to mandatory?

Question # 3: Ace Truck Equipment: Vendor would like wording changed to read "Auxiliary headlights for snow plow operation to be shock mounted on 201 stainless steel brackets on chassis front fenders. Truck Lite 80800 or equal"? Also move to mandatory?

Answer: We will delete Lighting section 3.2.2.9 along with 3.2.2.9.1 through 3.2.2.9.6. We will move all of these to mandatory and change wording in 3.2.2.9.6. Section 3.2.2.9.1 is now 3.1.2.9.4 – 3.2.2.9.2 is

now 3.1.2.9.5 – 3.2.2.9.3 is now 3.1.2.9.6 – 3.2.2.9.4 is now 3.1.2.9.7 – 3.2.2.9.5 is now 3.1.2.9.8 – 3.2.2.9.6 is now 3.1.2.9.9. These will read as:

3.1.2.9.4 Have rear lights which are shock mounted, recessed oval stop, tail, turn, and back-up lights mounted in the back post. Strobe lights, Truck Lite 60360Y or equal, marked and switched from dash board location.

3.1.2.9.5 Have three (3) center rear, I.D. lights located in truck chassis.

3.1.2.9.6 Have two (2) amber oval LED strobe lights mounted at: Front corners of cab protector and two (2) at each outside corner of cab protector. Truck Lite 60122Y or equal marked and switched from dash board location.

3.1.2.9.7 Have two (2) amber oval LED strobe lights mounted at the top of rear corner posts right and left sides and switched in conjunction with cab protector strobe. Truck Lite 60122Y or equal.

3.1.2.9.8 Have a lighted license plate bracket.

3.1.2.9.9 Have Auxilliary headlights for snow plow operation to be shocked mounted on 304 stainless steel brackets on chassis front fender. Truck Lite 80800 or equal.

68. 3.2.2.10 Tailgate: The spreader body will have a tailgate and should contain these desirable features:

3.2.2.10.1 Have heavy duty offset hinge plates, one (1) inch flame cut 201 stainless steel.

3.2.2.10.2 Have ¾ inch 201 stainless steel latch hooks with 3/8 inch 201 stainless steel latch.

3.2.2.10.3 Have full perimeter 201 stainless steel boxing with all horizontal edges sloped outward.

3.2.2.10.4 Have a 7 ga. 01 stainless steel 10-12 inch x 24-26 inch rear feed gate.

3.2.2.10.5 Have top hinge removable, chain tethered keeper pins.

3.2.2.10.6 Have latching action at bottom of gate which is operable by the driver without leaving the cab.

3.2.2.10.7 Have a self aligning gate.

3.2.2.10.8 Have 304 stainless steel lower latch tail gate pins, 1 ¼" diameter.

3.2.2.10.9 Have a body integrated or bolt on 201 stainless steel 15" spreader apron.

3.2.2.10.10 The design and strength characteristic of the entire body should be such that the unit structural members and the hoisting system will not suffer any deformation, damage, or structural failure resulting from raising a distributed full payload.

Question # 1: Ace Truck Equipment: We believe that 3.2.2.10 Tailgate section including 3.2.2.10.1 through 3.2.2.10.10 should be moved to mandatory? Please delete 3.2.2.10.9 in this section as agreed in pre-bid meeting.

Answer: We will move the following to mandatory, and will be addressed with the following questions below.

Question # 2: Ace Truck Equipment: 3.2.2.10.4 states have a 7ga. 01 stainless steel, is this meant to read 7 ga. 201 stainless steel?

Answer: Yes

Question # 3: Ace Truck Equipment: Should 3.2.2.10.8 read 201 stainless steel instead of 304 stainless steel?

Answer: Yes

We will move section 3.2.2.10 to 3.1.2.10 with corrections made.

3.1.1.10 Tailgate - The spreader body must have a tailgate which will:

3.2.2.10.1 is now 3.1.2.10.9 and will read as:

3.1.2.10.9 Have heavy duty offset hinge plates, one (1) inch flame cut 201 stainless steel.

3.2.2.10.2 is now 3.1.2.10.10 and will read as:

3.1.2.10.10 Have $\frac{3}{4}$ inch 201 stainless steel latch hooks with $\frac{3}{8}$ inch 201 stainless steel latch.

3.2.2.10.3 is now 3.1.2.10.11 and will read as:

3.1.2.10.11 Have full perimeter 201 stainless steel boxing with all horizontal edges sloped outward.

3.2.2.10.4 is now 3.1.2.10.12 and will read as:

3.1.2.10.12 Have a 7 ga. 201 stainless steel 10-12 inch x 24-26 inch rear feed gate.

3.2.2.10.5 is now 3.1.2.10.13 and will read as:

3.1.2.10.13 Have top hinge removable, chain tethered keeper pins.

3.2.2.10.6 is now 3.1.2.10.14 and will read as:

3.1.2.10.14 Have latching action at bottom of gate which is operable by the driver without leaving the cab.

3.2.2.10.7 is now 3.1.2.10.15 and will read as:

3.1.2.10.15 Have a self aligning gate.

3.2.2.10.8 is now 3.1.2.10.16 and will read as:

3.1.2.10.16 Have 201 stainless steel lower latch tail gate pins, 1 ¼" diameter.

3.2.2.10.9 Delete this item

3.2.2.10.10 is now 3.1.2.10.17 and will read as:

3.1.2.10.17 The design and strength characteristic of the entire body shall be such that the unit structural members and the hoisting system will not suffer any deformation, damage, or structural failure resulting from raising a distributed full payload.

69. 3.2.2.11.1 Pivot arm rests shall be included.

Question: Ace Truck Equipment: Can you move this to mandatory?

Answer: Yes, we will delter this section and move this to mandatory and it will read as:

3.1.2.11.7 Pivot arm rests shall be included.

70. 3.2.2.11.2 A steel cab protector mounted Triple wind deflector.

Question # 1: Ace Truck Equipment: Would like this moved to mandatory?

Answer: 3.2.2.11.2 will be deleted and moved to mandatory.

Question #2: Ace Truck Equipment: We would like this to be rewritten to say: "A wind deflector shall be installed on the 201 stainless steel cab protector"?

Answer: We will change steel cab protector to 201 stainless steel cab protector, other that the language will stay the same and read as:

3.1.2.11.8 Shall have a 201 stainless steel cab protector mounted Triple bend wind deflector.

71. 3.2.2.12.1 All 304 stainless steel surfaces should be unpainted and cleaned with an acid wash solution to remove carbon burning from the stainless steel welds.

Change : Remove 304, All 304 stainless steel to insert All 201 stainless steel.

Question: Ace Truck Equipment: Would the state confirm they mean all stainless steel (201 and 304) surfaces should be unpainted and cleaned?

Answer: Yes

72. 3.2.2.13.1 Tailgate and body sides should be outlined with red/silver pre-stripped conspicuity retroreflective weather resistant striping.

Question # 1: Ace Truck Equipment: This needs moved to mandatory?

Answer: We will move to mandatory and fix typo on Tailgate.

Question # 2: Air Flow MFG. Co: Can specific tailgate striping colors be verified?

Answer:

This will be deleted and moved to 3.1.2.14.3 and will read as:

3.1.2.14.3 Tailgate and body sides shall be outlined with red/silver pre-stripped conspicuity retroreflective weather resistant striping.

Questions without Ref. Numbers

73. **Question:** Monroe Truck Equipment: Is there a preference regarding Body Style?

Answer: Yes, it has to accommodate a flat floor.

74. **Question:** Monroe Truck Equipment: Radial, Flat-Floor or Tapered?

Answer: Flat –Floor

75. **Question:** Monroe Truck Equipment: When the specification is referring to 7 gauge (.1793) and or 3/16" (.1875) material, the thickness is so close can either one be used when 7 gauge or 3/16" is referenced?

Answer: 7 gauge is sheet metal. 3/16 is plate. No, use as specified.

76. **Question:** Ace Truck Equipment: In previous bids, a bug shield on the truck hood was required. I do not see this in the specifications for RFQ # 7013EC05. It is not the same as specification 3.1.1.5.9 which has also been required in previous bids?

Answer: 3.1.1.5.9 reads as: The cab shall have a bug screen and will be installed behind the cab grille.

We will add: this : Shall include air deflector – hood mounted smoke or blue. Manufacturer's standard width for truck. Must not hinder access to hood. This will then read:

3.1.1.5.9 The cab shall have a bug screen and will be installed behind the cab grille. This shall also include air deflector-hood mounted smoke or blue. Manufacturer's standard width for truck. Must not hinder access to hood.