



Brazos River Authority

May 23, 2017

**Addendum No. 1
REQUEST FOR BID
TWO (2) SCREW TYPE BLOWERS, HUTTO, TX
RFB No. 17-03-1010.1**

It is the responsibility of the Bidder to assure and guarantee by acknowledging the receipt of this Addendum in the Bid that the Bidder has received the Addendum in its entirety, and that the Bidder accepts all conditions contained herein.

Question 1:

1.1 g. Please clarify the 2,200 CFM is stated as SCFM or ICFM for conditions. This needs to be clarified to make sure everyone is bidding the same capacity.

Answer 1: ICFM

Question 2:

1.1 i. The design pressure of 7.5 PSIG does not require the [removed] blower to have an oil pump in the [removed] system. In this pressure range the blower shall be splash lubricated. If this is the proper request, then in line (r. *Oil Pressure & oil temperature transmitters AND t. Oil and inlet air temperature transmitter*) should be omitted from the RFQ. Please clarify.

Answer 2: A pump is not required but oil level and temperature transmitters are.

Question 3:

In most [removed] blower applications, it is more common to monitor the discharge temperature of the blower. The blower package will provide a shutdown of the blower if the discharge air temperature reaches a critical point. Will this be acceptable?

Answer 3: Yes

Question 4:

1.1 j. Rise to Surge is a term used for Turbo or Centrifugal blowers and should be omitted for a positive displacement blower application.

Answer 4: Yes, please omit

Question 5:

1.1 k. *Wire to Air* is a term used for Turbo or Centrifugal blowers and should be omitted for a positive displacement blower application. We can furnish curves to illustrate flow/pressure to required horsepower.

Answer 5: Furnish curves and remove wire to air

Question 6:

1.1 n. Identifies the maximum noise at 95 db, then line (s.) identifies the minimum 80 db sound enclosure. Please clarify if 95 db is the maximum sound with no enclosure and the 80 db is the maximum sound level with enclosure.

Answer 6: All bids shall include enclosures. We are concerned about the 80db not to exceed with enclosure

Question 7:

1.1 o. The allowable vibration level of <1mm/sec seems to be a specification for a Turbo blower. A positive displacement blower could never reach the level which is .04 Inch per Second. The positive displacement blowers can achieve a range of .2 to .4 IPS. Even .45 IPS vibration is acceptable. A .6 IPS vibration would be a shutdown range. Please make appropriate changes.

Answer 7: 2-7 mm/sec

Question 8:

1.1 o. Oil [removed] system for this particular pressure range shall be Dual Splash Lubricated.

Answer 8: Basically same as question 2, so splash lubricated will work.

Question 9:

1.1 x. Blow off valves are normally required with a Turbo style blower. The positive displacement blowers incorporate a safety relief valve set at 2 PSI above the operating pressure to protect the blower. Please make appropriate changes to the specification.

Answer 9: A blow off valve and relief valve would be the same thing – it is just the wording of it.

Question 10:

1.1 y. Will we be reusing the existing isolation valves or do we need to price new valves? Line 1.5 States *Successful bidder shall provide fittings to adapt to existing piping and valves*. Please clarify the contradiction.

Answer 10: Yes, include in your bid replacing both valves

Question 11:

1.1 z. With the PLC all pressure readings shall be on the PLC display. Did you want an additional analog dial type pressure gauge to install in the pipe header?

Answer 11: Yes, go ahead and include as an add option

Question 12:

1.1 aa. No discharge cone is supplied with a [removed] blower package. Please omit.

Answer 12: Omit

Question 13:

1.1 bb. RVSS is assumed to mean Reduce Voltage Soft Starter. Please confirm if you require a motor starter for the blower packages.

Answer 13: See question 18

Question 14:

1.1 cc. Surge protection is not a requirement for positive displacement blowers. Please omit.

Answer 14: Omit

Question 15:

1.1 dd. Auto valves are not required for positive displacement blowers. Please omit.

Answer 15: Omit

Question 16:

1.1 ff. What is meant by Monometer. If this is intended to be a Manometer for monitoring the inlet air filter restriction, then we would supply inlet filter restriction monitoring via filter restriction gauge with excessive filter restriction shutdown through the blower's PLC.

Answer 16: Yes, we want to monitor and have it tied in through the PLC

Question 17:

1.1 jj. RFID Cards are not provided with the standard factory PLC and should not be a requirement to operate the blower. Would a password protection to make changes to the blower functions be acceptable?

Answer 17: The SCADA group will need the ability to look at the PLC program in the event the system requires troubleshooting. If a RFID card software is required to achieve this, it should be included. A password protection is acceptable.

Question 18:

1.1 mm. Please clarify if the blower package shall be started via a VFD or a RVSS mentioned in line 1.1 bb? Or is this going to operate as a stop/start based on the 4-20ma from the DO controller?

Answer 18: VFD

Question 19:

8.2 An ASME PTC-9 Certified Performance Test can be provided with each blower however the cost is extremely expensive if this is your intent. The price could run as much as \$15,000 per blower. Would a factory provide mechanical run test with report be sufficient for the required performance test?

Answer 19: Yes, factory run test from the factory is sufficient

Question 20:

You have an extensive Specification on the fans that you are wanting but no indication on brand's that will qualify, are there any certain brand that you will accept? I understand that BRA has bought [removed] type fans for another location, what brand were these fans?

Answer 20: As long as it meets the spec's (ICFM, etc.) then it can be left up to the manufacturer as to what brand would be identified for their specified blower

Sincerely,

Clarissa Cabrera, CTPM, CTCM

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Purchasing Manager, Administrative Services