Corporate Finance Department
Materials Management Division

879-2023 ADDENDUM 3

SUPPLY, DELIVERY AND ON-SITE INSPECTIONS OF PERIMETER ROAD PUMPING STATION (PRPS) PUMPING EQUIPMENT

ISSUED: February16, 2023
BY: Brett Baker
TELEPHONE NO. 431-276-2276

URGENT

PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE BID/PROPOSAL

THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID/PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Add 2021-03-05

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid/Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid/Proposal may render your Bid/Proposal non-responsive.

PART B – BIDDING PROCEDURES

Revise: B2.1 to read: The Submission Deadline is 4:00 p.m. Winnipeg time, February 22, 2024.

PART D – SUPPLEMENTAL CONDITIONS

Revise: D2.1(a) to read Supply and deliver two (2) pumps complete with motors, pump and motor mounting brackets, pump suction elbows, supports, flanged suction and discharge piping connections, extended drive shafts, supports and guards, couplings, vibration and temperature monitoring instruments as well as operations and maintenance manuals.

PART E – SPECIFICATIONS

Revise: E5.3.15(b) to read Drive shaft and coupling(s) shall have a service factor of 2.5 to ensure ample capacity to transmit power continuously for all operating conditions with ½ - 1 degree of misalignment which may occur during or develop after installation and should accommodate any thermal expansion based on a temperature differential of one hundred (100) degrees Fahrenheit.

Revise: E5.3.15(e) to read The drive shaft assembly coupling arrangement shall permit easy removal of either the pump or motor without disturbing the other. Multiple lengths of shaft shall be used between the pump and motor. The bearing shall be supported by the existing steel post on the valve floor room.

Revise: E5.4(a)(iv) to read Power Factor: 0.70 PF Minimum

Revise: E5.5(b)(vi) to read Terminal blocks for connection to field wiring in tender provided instrument panel.

Revise: E5.5(c)(iii) to read Terminal blocks for connection to field wiring in tender provided instrument panel.

QUESTIONS AND ANSWERS

Q1 Can we use City of Winnipeg references on bid form N?

A1: Yes.

Q2 Bid form N asks if the pump is approved for Canada. There is no certifying agency for waste water pumps in Canada. Was this question intended more for the motors?

A2: The intention was for CSA approval. This question can be responded to as N/A if not relevant.

Q3 D2.1.Please confirm if the power and control cabling is to be part of the scope of supply as this is normally by others.

A3: Power and control cabling has been removed from D2.1(1). Power cabling is not required and control cabling for the entire length is not required. However, it is required to an instrument panel with terminations for both the motor and pump. The instrument termination panel may be mounted on the motor or pump. The instruments may also be supplied with enough length to mount the provided instrument termination panel nearby. See sections E5.5(b)(vi), E5.5(c)(iii)

Q4 E5.4 (a) (iv) – Power factor values are not guaranteed and are over constraining the motor. We will quote the best power factor but 0.8 PF minimum is not achievable based on the other requirements. Please allow a power factor of 0.7 or higher at 100% load.

A4: Agreed. Updated in Addendum.

Q5 E6.3 (viii) Partial discharge test is not applicable to new LV motors. Please remove as the motor manufactures are not able to provide this testing.

A5: This testing requirement will be removed during factory acceptance testing if it is determined it is not applicable and cannot be provided.

Q6 E5.3.15.e This section states only one length of shaft shall be used between the pump and motor though in addendum it was mentioned that a bearing supports are allowed on the valve floor.

A6: Multiple shaft lengths may be used.

Q7 E5.3.15 (b) Drive shaft recommended offset is ½ - 1 degree, not 3 degrees

A7: Agreed and noted in the addendum.

Q8 E5.3.15.f This may not be possible “Design shaft to ensure a separation of 50% between the operating speed and the first harmonic frequency of the system (motor, couplings, shaft and pump).” As noted in E3.11 the separation margin of +/-15% is specified and if resonate conditions are found a forced response stress analysis can be completed to determine if the stress is below fatigue limitations. Please confirm section E3.11 will take precedence.

A8: Confirmed.

Q9 E5.3.16.c Drive shaft guard standard design has access doors pre-fabricated to 12” tall please confirm if this will be acceptable.

A9: Acceptable provided 20” is not available.

Q10 E5.5.c.iv Please confirm what is required for the stator temperature as the windings already will have RTD's as per the specifications.

A10: 2-RTD devices (2 locations) per phase measuring stator windings.

Q11 E13.2.i Warranty will not cover Power & Control Cabling along with Cabling Accessories as this is not normally part of the scope. Maybe we remove cabling from the scope entirely. See above

A11: Sensors are to be warrantied from the pump and motor to their respective instrument panel(junction box).

Q12 E5.5.b.iv Sensor 100 mV/g is usually for an accelerometer and not for a 4-20 mA vibration sensor. Please confirm what kind of sensor is required.

A12: 0-50 RMS mm/s or 10-1000 Hz. Accuracy less than +/- 3%.