

PROCUREMENT SERVICES

CITY OF SURREY, SURREY CITY HALL 13450 – 104 Avenue, Surrey, B.C., V3T 1V8 Tel: 604-590-7274

E-mail: purchasing@surrey.ca

ADDENDUM No. 1

REQUEST FOR QUOTATIONS (RFQ) No.: 1220-040-2022-026

TITLE: Cloverdale Arena Chiller and Condenser

Replacement

ADDENDUM ISSUE DATE: April 21st, 2022

DATE: PREFER TO RECEIVE QUOTATIONS ON OR

BEFORE April 25th, 2022.

INFORMATION FOR CONTRACTORS

Contractors are advised that Addendum No. 1 to 1220-040-2022-026 is hereby issued by the City. This addendum shall form part of the contract documents and is to be read, interpreted and coordinated with all other parts. The following information is provided to answer questions raised by Contractors for the abovenamed project, to the extent referenced and shall become a part thereof. No consideration will be allowed for extras due to the Contractors or any sub-contractor not being familiar with this addendum. This Addendum No. 1 contains four (4) pages.

QUESTIONS AND ANSWERS:

- Q1. Will bypass be required on the new Cold pump and Condenser fan VFD's?
- A1. The bidders are to provide a separate optional price for a starting bypass on each of the VFD's for the brine pump and the condenser fan.
- **Q2.** Please confirm whether the existing glycol compressor cooling circ. pump is in fact to be retained as is?
- A2. The existing glycol pump for compressor oil cooling is to be replaced with a new pump and starter. The existing pump is to be turned over to the Owner.
- Q3. The ammonia and secondary coolant relief systems have been updated this year to current standards under a separate contract. Please confirm that only the valves and branch connections from the new equipment, to the existing piping, are now only the scope of work.
- A3. The valves and branch connections from the new equipment to the existing piping, are in the scope of work.

- **Q4.** Please confirm that the new condenser is to remain mounted on steel beams on the existing concrete slab, similar to as is now.
- A4. The steel beams for the new condenser can be reused if they match the base size and height required for the new condenser. The bidder must include any modifications to the condenser base steel beams required for the new condenser. Professional review of the seismic attachment is also required.
- **Q5.** Can you advise the expected award date of the contract?
- A5. The City will not be providing this information at this time.
- **Q6.** Can the specified schedule can be extended? Between equipment lead times, shipping and installation, it does not look like the initially specified schedule can be met.
- A6. The City would not like to change the schedule at this time and would like contractors to meet this timeline if possible. However, if this is not feasible in current market circumstances, the City is willing to make accommodations.
- **Q7.** Is a new underfloor heating pump required?
- A7. A new underfloor heating pump and starter is required.
- **Q8.** Are brine tests available?
- A8. Current brine tests are included at the end of this addendum as Attachment 1.
- **Q9.** Are check lights required?
- A9. Check lights are to be provided for the heat tracing on the condenser water lines and pan heater.
- **Q10.** Are new oil separators required?
- A10. The bidders are to provide separate optional pricing for new oil separators for each compressor. The new separators are to be supplied with replaceable, coalescing elements, and new stop and check valves.

All Addenda will become part of the Contract Documents.

- END OF ADDENDUM -

-3-ATTACHMENT 1 - BRINE TESTS

Brine/G	ilycol Sample Rep	ort(s)	11 8.0	7			91	
S	SURREY-CLOVERDALE ARENA		State Control	Retrigera	on Contractor			
Customer	ADAM BEAMER		S Fraser \	/alley Refrigerat	on Ltd			
Attention	akeamer@surrey.ca		Fraser Valley Refrigeration Ltd.					
Fax / email	December 3, 2		Aldergrove, B V4W 2T8	ritish Columbia Fax: 6 Box 337 Toll Free: 1-8	04-856-7768 00-661-5772			
Report Date CC	December 3, 2	J21			WO.ID REF	109375		
55	sbducic@surrev.ca			SEMI-ANI	IUAL TESTIN			
					PAGE: 1 o	2		
	Please find attached the re	en at your plant						
	DESCRIPTION			TYPE				
Sample ===>>	COLD FLOOR			BR	<u>INE</u>	NHL SIZE		
	SAMPLED 30-Sep-21					10000 LITERS		
	Previous 24-Feb-21							
Results ===>> Comments	Verv good re	_						
	Very good results! No adjustments necessary.							
					_			
Sample ===>>	HEAT FLOOR			BR	INE	NHL SIZE		
Carpio Car	SAMPLED 30-Sep-21	•		211		3300 LITERS		
	Previous 24-Feb-21							
Results ===>>								
Comments	Very good results! No adjustments necessary.							
NEXT SAMPLING DATE REQUIRED : @ 6 MONTH IN		@ 6 MONTH INT	TERVAL>	March 29, 2022	Other ==>			
This 8fte 8ampling Frequency is set up to be : EVER		RY 6 MONTHS OR T	WICE IN A YEAR					
	A summany of chamicals requi	red is provided b	elow based on Lab And	shurie report (attached)	The original conv	of the		
	A summary of chemicals requi Lab Report will be mailed toge							
	bring them up to you on our ne	ext service maint	enance to your facility.	Let us know your prefer	ence and we will s	chedule delivery.		
Remember - discontinue Filtering for 2-3 weeks after adding chemicals ! SUMMARY OF CHEMICALS: After that continue filtering as usual and keep an eye on filtering.								
Sincerely yours,	M				BAGS 94-97% B	BRINE PELLET		
for Fraser Valley Refriger	Season,				LBS - DRY CAL	втіс		
	Mike Ambrosio, A.Sc.T.	Proces Valley	(65)					
	ph 604-856-8644 cell 778-875-9800	E1=121 431	ERATION	-	20L PAILS - 25	750 INHIBITOR		
			mikea@fvri.com		LITERS - AMSC	AV		
					LITERS PROP.	INHIBITOR Z-PGIN		
					LITERS ETH. IN	HIBITOR Z-EGIN		
					LITERS OF IN	HBITED PROPYLENE GLYCOL (ST.	ANFROST	
					LITERS OF IN	IBITED ETHYLENE GLYCOL (STAN	NCOOL)	
					LITERS Z-ph Bo	oost		



Zeotec Limited

9643 62 Avenue Edmonton, AB T6E 0E1 780.434.5810 www.zeotec.com

REPORT OF CALCIUM CHLORIDE BRINE ANALYSIS

Customer Name: Fraser Valley Refrigeration Date: December 3, 2021

Address: 26121-Fraser Highway, Box Attention: Mike Ambrosio

337, Aldergrove B.C.

V4W 2T8

Phone: 604-856-8644 Fax: 604-856-7768 cc:
E-mail: mikea@fvrl.com

Reference: Cloverdale Arena CFHF

P.O.: 22366

2 1121	001 050 7700	21011	22000	
CONSTITUENT	C.F.	H.F.	Control Range	
Sample Date	September 30, 2021	September 30, 2021		
Appearance	Yellow/Clear	Yellow/Clear	Clean/Clear	
Visible Solids	< 30 ppm	< 30 ppm	< 30 ppm	
Specific Gravity	1.20	1.17	1.20 Min.	
% Calcium Chloride	21.5	18.6	21.5% Min	
Freezing Point (°C)	-21.00	-15.60	-5.0 °F or -20.5 °C Min	
Visible iron	< 30 ppm	< 30 ppm	< 30 ppm	
Complex Phosphate Inhibitor (cPO ₄₎	22 ppm	23 ppm	20/30ppm cP0 ₄ at 1.2% Z-5750	
pН	9.09	10.20	8.50 to 9.50	
Dissolved iron	15 ppm	< 10 ppm	< 10 ppm	
Ammonia (NH ₃)	0 ppm	0 ppm	0 ppm (SM4500-NH ₃)	

FINDINGS & RECOMMENDATIONS

Cooling Floor: pH is good at 9.09.

Visible solids are good at < 30 ppm.

cPO4 is good at 22 ppm.

Heating Floor: pH is high at 10.20.

Visible solids are good at < 30 ppm.

cPO4 is good at 23 ppm.

1977 to 2021 - 44 Years of Service

Kristofer Bacon, Chemical Technologist