

**FORM A: PROPOSAL**  
(See B9)

1. Contract Title SUPPLY, DELIVERY, AND INSTALLATION OF 50-KW DIRECT CURRENT FAST-CHARGING STATIONS FOR ELECTRIC VEHICLES

2. Proponent

\_\_\_\_\_  
Name of Proponent

\_\_\_\_\_  
Usual Business Name of Proponent as it appears on Invoice (if different from above)

\_\_\_\_\_  
Street

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
Email Address of Proponent

\_\_\_\_\_  
Facsimile Number

(Mailing address if different)

\_\_\_\_\_  
Street or P.O. Box

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
GST Registration Number (if applicable)

The Proponent is:

(Choose one)

a sole proprietor

a partnership

a corporation

carrying on business under the above name.

3. Contact Person

The Proponent hereby authorizes the following contact person to represent the Proponent for purposes of the Proposal.

\_\_\_\_\_  
Contact Person

\_\_\_\_\_  
Title

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Facsimile Number

4. Definitions

All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions and D5.

5. Offer The Proponent hereby offers to perform the Work in accordance with the Contract for the Price(s), in Canadian funds, set out on Form B: Prices, appended hereto.

6. Execution of Contract The Proponent agrees to execute and return the Contract no later than seven (7) Calendar Days after receipt of the Contract, in the manner specified in C4.1.

7. Commencement of the Work The Proponent agrees that no Work shall commence until he/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

8. Contract The Proponent agrees that the Request for Proposal in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Proposal.

9. Addenda The Proponent certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract:

No.		Dated	
	_____		_____
	_____		_____
	_____		_____

10. Time This offer shall be open for acceptance, binding and irrevocable for a period of one hundred and twenty (120) Calendar Days following the Submission Deadline.

11. Indigenous Self-Declaration The City is requesting that Proponents identify if their business is at least 51% owned by one or more Indigenous persons of Canada.

YES, 51% or more Indigenous ownership

NO, it is not

This information is being gathered for statistical purposes only and will not be used for purposes of evaluation.

12. Signatures

The Proponent or the Proponent's authorized official or officials have signed this

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Signature of Proponent or  
Proponent's Authorized Official or Officials

\_\_\_\_\_

(Print here name and official capacity of individual whose signature appears above)

\_\_\_\_\_

(Print here name and official capacity of individual whose signature appears above)

**FORM B: PRICES**  
(See B10)

**SUPPLY, DELIVERY, AND INSTALLATION OF 50-KW DIRECT CURRENT FAST-CHARGING STATIONS FOR ELECTRIC VEHICLES**

UNIT PRICES

<b>Alternative 1</b>						
600V Direct Current Fast-Charging Station						
ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1.	50-kW direct current fast-charging station for electric vehicles	18015, E2.2	Each	2		
2.	Annual operating costs (consumables and ongoing, excluding communications) for each station (est. life of each unit is 10 years)	18015, E2.3	Year	20		
3.	Training	18015, E2.4	Each	1		
4.	Installation and Setup	18015, E2.5	Each	1		
5.	2 year warranty (years 2 and 3) for each station	18015, E2.6	Each	2		
	<i>Detail other costs below, specifying if mandatory or optional:</i>					
TOTAL BID PRICE (GST and MRST extra) (in numbers) \$ _____						

\_\_\_\_\_  
Name of Proponent

**FORM B: PRICES**  
(See B10)

**SUPPLY, DELIVERY, AND INSTALLATION OF 50-KW DIRECT CURRENT FAST-CHARGING STATIONS FOR ELECTRIC VEHICLES**

UNIT PRICES

<b>Alternative 2</b>						
480V Direct Current Fast-Charging Station						
ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1.	50-kW direct current fast-charging station for electric vehicles	18015, E2.2	Each	2		
2.	Annual operating costs (consumables and ongoing, excluding communications) for each station (est. life of each unit is 10 years)	18015, E2.3	Year	20		
3.	Training	18015, E2.4	Each	1		
4.	Installation and Setup	18015, E2.5	Each	1		
5.	2 year warranty (years 2 and 3) for each station	18015, E2.6	Each	2		
6.	480V transformer	18015, E2.7	Each	1		
7.						
8.	480V epoxy-filled transformer	18015, E2.8	Each	1		
	<i>Detail other costs below, specifying if mandatory or optional:</i>					
TOTAL BID PRICE (GST and MRST extra) (in numbers) \$ _____						

\_\_\_\_\_  
Name of Proponent

## FORM N: PROPONENT PROPOSAL – REQUIREMENTS

### Instructions for filling out Form N: Proponent Proposal – Requirements

1. Complete Form N: Proponent Proposal – Requirements
2. Follow the proposal instructions in the Proposal Instructions section below

### PROPOSAL INSTRUCTIONS

1. **For each Mandatory Requirement**, provide a “Yes” for compliance or state deviation, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.
2. For each requirement in which the City has noted as “Please Describe”, and/or asked specific questions, Proponent shall include additional information, referencing the specific Ref #, at the end of the section and/or as appendices. **Ref # is highly important to ensure linkage between requirement and description.**

#### Notes:

1. Any omitted response will be assumed to be the same as a response code of “N”.
2. Any deviation from the response code will be re-coded at the discretion of the City of Winnipeg.

## FORM N: MANDATORY REQUIREMENTS 18015

### **50-KW DIRECT CURRENT FAST-CHARGING STATIONS FOR ELECTRIC VEHICLES**

#### **1.0 DESCRIPTION OF EQUIPMENT**

- 1.1 These specifications describe a **50-kW Direct Current Fast-Charging Station for Electric Vehicles** and other equipment and features as specified herein.
- 1.2 The **50-kW Direct Current Fast-Charging Station for Electric Vehicles** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.3 Unless specifically stated otherwise in Form N, only new, unused equipment of current manufacture shall be accepted.
- 1.4 It will be the responsibility of the Proponent to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

#### **2.0 OTHER SPECIFICATIONS AND STANDARDS**

- 2.1 Supplied unit(s) must comply with all Canadian Standards and Certifications and all requirements for Supply Equipment for Electric Vehicles in North America.
- 2.2 The **50-kW Direct Current Fast-Charging Station for Electric Vehicles** must be UL 2202 certified, or be field inspected by an agency duly registered by the Standards Council of Canada.
- 2.3 It will be the responsibility of the Proponent to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

#### **3.0 REFERENCES**

- 3.1 If available, please provide five (5) references within last 5 years where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

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**4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS**

- 4.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.
- 4.2 All items in these specifications must be answered indicating compliance or non-compliance. **PROPOSERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.
- 4.3 **EACH PROPONENT IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID.**

**5.0 PERFORMANCE RELIABILITY**

- 5.1 The responsibility for the design of the **50-kW Direct Current Fast-Charging Station for Electric Vehicles**, its performance and reliability shall rest upon the Contractor.
- 5.2 The term “repeated failures” as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of “repeated failures”, as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer’s preventative maintenance schedule.
- 5.3 Where the **50-kW Direct Current Fast-Charging Station for Electric Vehicles** develops “repeated failures” in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.
- 5.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. **Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C).**

**6.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

- 6.1 The manufacturer of the **50-kW Direct Current Fast-Charging Station for Electric Vehicles Battery Electric Vehicle** shall have five (5) years continuous experience manufacturing **50-kW Direct Current Fast-Charging Station for Electric Vehicles**.
- 6.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship conforms to the best standards and engineering practice of the industry.

7.0	<b>ELECTRICAL, MECHANICAL AND OPERATIONAL REQUIREMENTS:</b>		
7.1	50-kW direct current fast-charge station compatible with SAE-J1772 Combo standards	<b>State Make and Model:</b>	
7.2	Frequency: 60 Hz	<b>State:</b>	
7.3	Minimum 90% efficiency for all output power	<b>State:</b>	



7.4	Minimum power factor 90%	<b>State:</b>	
7.5	Minimum of two (2) connectors with at least one (1) a SAE-J1772 Combo connector	<b>Required:</b>	
7.6	Fixed holster for each connector when not in use. Holster must protect connector contacts from water, snow, ice and all forms of debris	<b>Required:</b>	
7.7	Cable and connector with minimum service life of 10,000 cycles (connection, disconnection)	<b>Required:</b>	
7.8	Connection cable at least 14 feet long	<b>State:</b>	
7.9	Authentication by RFID card	<b>Required:</b>	
7.10	Less than 2 seconds delay between server sending message and station receiving (and vice versa)	<b>Required:</b>	
7.11	Less than 30 seconds delay between tapping card and charging	<b>Required:</b>	
7.12	Charging possible if telecommunications link or connection to network lost	<b>Required:</b>	
7.13	Perform consistently with temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)	<b>Required:</b>	
7.14	Housing meets at least NEMA 3R criteria (indoor and outdoor use)	<b>Required:</b>	
7.15	Outdoor operation (up to 95% humidity without condensation)	<b>Required:</b>	
7.16	The enclosure of the DCFC must be mostly made (more than 90% of the enclosure must be metallic) of aluminum or any other material providing equivalent robustness, corrosion resistance and capability to withstand harsh weather and vandalism	<b>Required:</b>	
7.17	Work with fast-charging electric cars available in Canada equipped with SAE-J1772 Combo connector	<b>Required:</b>	

7.18	Emergency stop switch – DCFC restoration after the emergency stop button has been used must not require access to any power switches or disconnects upstream or inside the station. Restoration must be possible through customer reset of the DCFC’s emergency stop button	<b>Required:</b>	
7.19	Describe how the DCFC prevents others from interrupting an ongoing charging session.	<b>State:</b>	
7.20	Vendor technical support – Initial response within 24 hours, 72 hours over weekend (mandatory). 24/7 (preferred)	<b>State:</b>	
8.0	<b>DIMENSIONS:</b>		
8.1	Dimensions of station not to exceed 48” wide, 35” depth, 80” height	<b>State:</b>  <b>Width:</b>  <b>Depth:</b>  <b>Height:</b>	
9.0	<b>COMMUNICATIONS:</b>		
9.1	The Supplier shall provide a communications link between stations and network. Communication systems must function in operating temperatures –40°C to 32°C	<b>Required:</b>	
9.2	Preferred communications link hard-wired via CAT5. If cellular communications link used, it must support 3G or higher. Cellular wireless connection to charging station must be secure	<b>State:</b>	
9.3	Remote troubleshooting and firmware updates	<b>Required:</b>	
9.4	Open Charge Point Protocol 1.6 (OCPP 1.6) compliance or better	<b>Required:</b>	
10.0	<b>DATA</b>		
10.1	The station must have the ability to record data	<b>Required:</b>	
10.2	Data to be recorded by DCFC includes: <ul style="list-style-type: none"> <li>• RFID identifier</li> <li>• Data and time of charge</li> <li>• Duration of charge</li> <li>• Electricity disbursed during charge</li> </ul>	<b>State data recorded:</b>	

10.3	Supplier to state the data platform and application used by station.	<b>State data platform and application:</b>	
10.4	Supplier to identify how and where data is housed and state any additional cost or licensing requirements	<b>State:</b>	
11.0	<b>DOCUMENTATION</b>		
11.1	Supplier must provide the following documents: <ul style="list-style-type: none"> <li>• Technical specifications</li> <li>• Installation manual</li> <li>• Maintenance manual</li> <li>• User manual for the charging station</li> <li>• Management software user manual</li> </ul>	<b>Required:</b>	
12.0	<b>TRAINING</b>		
12.1	The Supplier shall offer a basic training session. Training lasting approximately one day, to be delivered in a single session, shall cover charging-station operation and maintenance and use of any software	<b>Required:</b>	
13.0	<b>INSTALLATION:</b>		
13.1	The Supplier understands that the stations may be installed throughout Winnipeg, in places where the ground can freeze and thaw to great depths. The design of the charging-station base shall take into account this constraint and the Supplier shall also specify it in its installation manual	<b>Required:</b>	
13.2	The Supplier understands that the charging stations may be installed in various types of parking areas (outdoor, indoor, underground, multilevel, etc.) that could hinder or block cellular communications. The installation manual shall take into account the potential problems related to cellular communications and provide solutions	<b>Required:</b>	
13.3	Electrical work to be performed to CEC standards and permit(s) obtained from City of Winnipeg. The Supplier is responsible for obtaining all necessary permits	<b>Required:</b>	
13.4	Supply voltage other than three-phase voltage 347/600V will require a transformer appropriate for the DCFC	<b>Required:</b>	
13.5	Each DCFC to be placed upon a concrete pedestal approximately 3”in height. Length and width enough to support the DCFC but not to exceed 48” wide, 35” depth	<b>Required:</b>	

13.6	Two (2) fixed embedded bollards, approximately 54" apart, to be placed in front of each DCFC. Height of each bollard approximately 36"	<b>Required:</b>	
13.7	Site 1 is located indoors and underground. Requires breakers, disconnects, and approximately 75' of cable. Alternative 2 requires a 480V transformer suspended from the ceiling.	<b>Required:</b>	
13.8	Site 2 is located outdoors. Requires breakers, disconnects, and approximately 200' of cable. Alternative 2 requires an epoxy-filled transformer to be situated outdoors on a concrete pedestal.	<b>Required:</b>	
14.0	<b>WARRANTY:</b>		
14.1	All warranty information shall be detailed and include all exclusions. The successful proponent shall provide all published warranty information upon delivery of the equipment. Proponent shall state all warranty information	<b>State:</b>	
14.2	The warranty for the <b><u>50-kW Direct Current Fast-Charging Station for Electric Vehicles</u></b> shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials, for a minimum period of 12 months	<b>Required:</b>	
14.3	Any equipment that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City	<b>Required:</b>	
14.4	The warranty shall be effective from the date the equipment is put into service by the City of Winnipeg	<b>Required:</b>	
14.5	Please provide complete warranty details with the submission	<b>State:</b>	
15.0	<b>DELIVERY:</b>		
15.1	Goods shall be delivered f.o.b. destination, freight prepaid, to various locations within the City	<b>Required:</b>	
15.2	Delivery Time: approximately 6 – 8 calendar weeks from date of award	<b>State:</b>	
15.3	Delivery Contact: the contractor shall contact the Contract Administrator prior to delivery of the equipment	<b>Required:</b>	
16.0	<b>VALUE-ADDED:</b>		
16.1	Proponents are encouraged to provide details of any optional or innovative charging technologies that go above and beyond the mandatory requirements.	<b>State:</b>	

	<p>Optional or innovative charging technologies could include:</p> <ul style="list-style-type: none"><li>• Integrated cable management system</li><li>• Touch screen, with ability to accept manually entered data, e.g. odometer reading</li><li>• Ability to charge multiple vehicles at one time (including through power sharing and/or sequencing)</li><li>• Higher charging rates</li><li>• Different DCFC hardware architectures</li></ul>		
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