



Settle down.

RFQ

Schedule:

Planned Purchasing Schedule:

Issue Request for Quote	Oct 04, 2018
RFQ Closes	Oct 18, 2018
Contract Award	Oct 23, 2018
Approval Drawings submitted to Grand Forks	Nov 05, 2018
Approval Drawings returned to Vendor	Nov 12, 2018
Delivery to Grand Forks	Feb 15, 2019

Submissions:

Submissions will be accepted via mail or email.

Box 220 7217 4th St, Grand Forks, BC V0H 1H0

corporate@grandforks.ca

Subject: ELEC2018-02-RFQ Attention: David Reid

Submissions may use the supplied bid sheet herein or vendors own sheet provided all the following information is included

- Unit prices (Canadian \$) for each transformer type
- Load and No Load losses for each type
- Warranty Information
- Delivery time after receipt of approved drawings

Bid Evaluation:

Each transformer type will be individually evaluated and Grand Forks may award to multiple vendors.

Bids meeting technical specifications will be evaluated on a Total Ownership Cost basis with losses valued at:

No Load Losses = \$ 7.61

Load Losses = \$ 1.90

TOC = (Quote Price) + \$ 7.61 x (No Load Losses) + \$ 1.90 x (Load Losses)

Delivery:

All transformers to be delivered FOB to Grand Forks by Feb 15, 2019

Grand Forks Transformer Specifications:

All transformers to be new product.

1. Pole Mounted Single Phase Distribution Transformers:

As per:

- CSA C2.2-06 (R2017) with attached amendments,
- CSA C802.1-13 Minimum Efficiency Values, &
- FOB: Grand Forks BC
- Taps: Provide voltage taps on the 7.2kV winding, 5 Pos, 95 to 105%.

kVA Rating	Primary Voltage	Secondary Voltage	Quantity Required
25	12,470GrdY/7,200	240 / 120	none
50	12,470GrdY/7,200	240 / 120	none
75	12,470GrdY/7,200	240 / 120	Up to 6
50	12,470GrdY/7,200	277 / 480	none
25	12,470GrdY/7,200	347 / 600	none
100	12,470GrdY/7,200	347 / 600	none
50	12,470GrdY/7,200	240 / 480	none

2. Pad Mounted Single Phase Distribution Transformers:

As per:

- CSA C227.3-06 (R2017) with attached amendments,
- CSA C802.1-13 Minimum Efficiency Values, &
- FOB: Grand Forks BC
- Taps: Provide voltage taps on the 7.2kV winding, 5 Pos, 95 to 105%.
- Loop feed terminals

kVA Rating	Primary Voltage	Secondary Voltage	Quantity Required
50	12,470GrdY/7,200	240 / 120	Up to 10
75	12,470GrdY/7,200	240 / 120	Up to 2
100	12,470GrdY/7,200	240 / 120	Up to 5

3. Pad Mounted Three Phase Distribution Transformers:

As per:

- CSA C227.4-06 (R2017) with attached amendments,
- CSA C802.1-13 Minimum Efficiency Values, &
- FOB: Grand Forks BC
- Taps: Provide voltage taps on the 7.2kV winding, 5 Pos, 95 to 105%.
- Loop Feed Terminals

kVA Rating	Primary Voltage	Secondary Voltage	Quantity Required
300	12,470GrdY/7,200	208 / 120	Up to 3
500	12,470GrdY/7,200	208 / 120	Up to 2
750	12,470GrdY/7,200	208 / 120	Up to 1

Specification Amendments:

Amendments to CSA Standard C2.2-06

- Section 7, Off-circuit tap changer and voltage selector switches:
Add to 7.1: Dual primary voltage transformers shall be equipped with an external voltage-selector switch and transformers with tap changers shall be equipped with an external tap changer switch.
- Section 11, Optional Items:
Add to 11(c): Transformers rated 50 kVA or less shall be equipped with clamp-type secondary terminals. Transformers rated greater than 50 kVA shall be equipped with spade-type secondary terminals.
- New 11(q):
Transformers shall be furnished with hand wheel-type bushing covers on all high voltage insulated terminals.

Additions/Amendments to CSA Standard C227.3-06

- Section 7, Switches and tap changers:
Add to 7.1: Dual primary voltage transformers shall be equipped with an external voltage-selector switch.

Additions/Amendments to CSA Standard C227.4-06

- Section 1, Scope:
Add to 1.5: All transformers shall be radial feed unless specified otherwise.
- Section 5, Mechanical characteristics:
Add to 5.1.9: Dual primary voltage transformers shall be equipped with an external voltage-selector switch.
- Section 10, Optional Items:
Add to 10(g): Transformers with 600Y/347 secondaries shall be equipped with taps ($\pm 5\%$ in five steps), complete with an external tap selector switch.



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2018 Grand Forks Distribution Transformer Bid Sheet (1/2):

kVA Rating	Primary Voltage	Secondary Voltage	Quantity Required	No Load Losses (W)	Load Losses (W)	Price Ea. (C\$)	Warranty (Years)	Delivery (Weeks)
1 Phase Pole Mount Sec 1								
75	12,470GrdY/7,200	240 / 120	Up to 6					
1 Phase Pad Mount Sec 2								
50	12,470GrdY/7,200	240 / 120	Up to 10					
75	12,470GrdY/7,200	240 / 120	Up to 2					
100	12,470GrdY/7,200	240 / 120	Up to 5					
3 Phase Pad Mount Sec 3								
300	12,470GrdY/7,200	208 / 120	Up to 3					
500	12,470GrdY/7,200	208 / 120	Up to 2					
750	12,470GrdY/7,200	208 / 120	Up to 1					

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2018 Grand Forks Distribution Transformer Bid Sheet (2/2):

Vendor Name: _____
Address: _____

Contact: _____
Position: _____
Phone: _____
e-mail: _____
Signature: _____
Date: _____

Notes: _____

