



**NOTICE OF INTENT NWN0I-21-07
Three Phase Pad Mounted Transformer**

Contact Person	
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1. Notice is hereby given by the City of New Westminster (City) of its intent to direct an award to Eecol Electric.
2. The Three Phase Pad Mounted Transformers are required to meet or exceed all requirements of CSA 227.4-2006, R2017. All specification and requirements are attached(Appendix A).
3. The City of New Westminster is issuing NWN0I-21-07 for the purchase of the Three Phase Pad Transformer to Eecol Electric for the total purchase price **\$149,710.19** CAD exclusive of taxes.

Suppliers who wish to challenge this decision should submit a detailed written objection to the attention of: Purchasing Department by email to nwpurchasing@newwestcity.ca on or before 2:00 PM local time, Vancouver BC, Wednesday July 7th, 2021.

The City will review the objection and where it is reasonable, the City may meet with the supplier concerning this NOI and may choose to release a competitive document.

APPENDIX A

Specifications and Requirements

1.0 Introduction and Scope

Three phase pad-mounted distribution transformers supplied to the City of New Westminster, BC are required to meet or exceed all requirements of CSA 227.4-2006, R2017. If the manufacturer has any deviations to CSA 227.4, they shall explicitly be stated in the proposal or quotation on a clause-by- clause basis.

2.0 Stock Codes and Ratings

The following stock codes and ratings are covered by this specification:

Stock Code	kVA Rating	Voltage Rating, V		BIL Rating, kV		Type of Feed
		Primary – dual voltage	Secondary	Primary	Secondary	
9-0121	300	12470GY/7200	120/208	125	30	Loop feed for all stock codes
9-0124	300		347/600			
9-0122	500	120/208				
9-0126	500	24900GY/14400	347/600			
9-0128	750	120/208				
9-0130	750	347/600				

Efficiency rating per CAN/CSA-C802.1

3.0 Loss Evaluation for Total Cost of Ownership

The following loss values shall be used when quoting each stock code

- Cost of no-load losses = CAD\$12.03/watt
- Cost of load losses = CAD\$4.01/watt

The guaranteed load loss shall be applied to the connection that has the highest measured loss values.

4.0 Deviations to CSA C227.4

The following deviations to CSA C227.4-2006 R2017 are to be noted by manufacturer:

- Clause 5.2.2: Stainless steel pentahead bolt and nut with anti-galling coating may be allowed.
- Clause 5.3.1: Bay-o-net fuses shall be supplied for both voltages with voltage clearly identified on the fuse. Transformer shall be shipped unfused with fuses for each voltage strapped separately to grounding bracket with labeling showing the fuse size for each voltage.
- Clause 8.3: American Welding Society equivalent to CSA W59 is acceptable.

5.0 Options and Accessories

The following options and accessories are required on three phase pad-mounted transformers:

- Transformer winding switch is required. Load break switches for loop switching **not** required.
- 200 A loadbreak rated bushing inserts, complete with dust caps.
- Dual voltage selector switch
- Transformer shall be shipped with the voltage selector in the higher voltage position.

6.0 Quotation Details

In addition to completing the bid form, the supplier shall provide

- Complete details of the transformer design and accessories for each stock code.
- Metric units shall be provided for all ratings weights, and dimensions. Imperial values are not acceptable.
- Approval drawing lead times shall be clearly indicated, and the drawing lead times shall be adhered to.
- Manufacturing lead times shall be listed for each stock code.

7.0 Approval Drawings

Upon notice of award or purchase order, the manufacturer shall provide approval drawings for any transformer design that has not been previously approved by the City of New Westminster. Approval drawings shall include top and side views consistent with CSA C227.4, along with dimensions, ratings, impedance and loss data, fluid volume and weight, total weight, nameplate details, and manufacturer catalog numbers. All dimensions and units shall be provided in metric as per CSA C227.4; imperial values shall not be shown on any drawing.

Revision History

Rev	Description	Author	Checked
2020.04.28	Original draft	M. Rutishauser	P. Gaudreault
2020.01.19	Updated Stock Numbers and Switches	M. Rutishauser	P. Gaudreault