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Kevin Itou Jayson Abraham CP Rail 7550 Ogden Dale Road SE Calgary, AB, T2C 4X9

Quote #HE042620A

Kevin, Jayson,

Hapeman Electronics is pleased to present the following quotation for an AC Traction Motor Field Tester.

SCOPE OF WORK:

The Traction Motor Field Tester is a System for doing No Load AC Motor Traction Testing. Hapeman will provide a Traction Motor Field Tester as described in the attached AC Traction Motor Field Tester Manual.

This will include a suitable AC Motor Drive with automatic secondary safety contactor, Drive Input Disconnect Switch, Control Pendant, and Pneumatic connection box.

April 26, 2020

(Option 1): Computerized Speed Sensor Analyzer Kit for AC Traction Motor Speed Sensor Testing.

AC Motor Testing (Customer Responsibilities)

- 1. Provide a sufficiently protected 480 Volt / 60 Hz./ 3-phase power at a minimum of 450 Amp continuous to the location where the drive is to be used.
- 2. Traction Motor Test Stand with personnel perimeter guarding.

This drive configuration is specific to this equipment and configuration. Drive programming should not be changed by unauthorized or untrained personnel. CP Rail will assume complete responsibility for the safe operation of the equipment.

(Option 2) If required, commission and training will be contracted separately.

SCHEDULE:

Hapeman Electronics estimates this project to take 8-10 weeks. Hapeman is obliged to mention that this is not considering the staff limitations and other roadblocks we may face concerning the COVID-19 pandemic.

PRICE:

Sixty Three Thousand Dollars (\$63,000.00 USD)

(Option 1) Speed Sensor Analyzer Kit for AC Traction Motor Field Tester.

Eight Thousand Seven Hundred Dollars (\$8,700.00 USD)





(Option 2) Two to Three Days of Commissioning and Training of the tester in Calgary by Hapeman Electronics personnel.

Four Thousand Eight Hundred Dollars (\$4,800.00 US)

TERMS AND CONDITIONS:

Purchaser is responsible for shipping of the unit to the desired location. Duties, Customs, and any shipping fees are the responsibility of the Purchaser. Purchaser to provide international freight shipping of their choice and assistance with any documentation necessary for said shipment.

Freight terms EXW from Stoneboro PA.

Hapeman Electronics cannot be held responsible for any delays or failures to meet deadlines due to customs, delayed deliveries, or construction delays at the facility.

In the event a translator is necessary Customer will provide or assign a bi-lingual assistant.

Fifty percent (50%) is due upon issuance of a Purchase order by an authorized Purchasing Agent. Hapeman will submit an electronic invoice to the Accounts payable department upon PO receipt.

The Balance is due in Net 30 days, to be electronically upon delivery to Calgary.

WARRANTY:

Please see the attached Conditions of Sale of Services for Hapeman Electronics' Warranty of the proposed work.

VALIDATION AND ACCEPTANCE:

This proposal is valid for thirty days. Acceptance of this proposal can be confirmed by the assignment of a purchase order by an authorized purchasing agent.

Thank you for the opportunity to offer this proposal. If you have any questions or comments, please feel free to call me.

Sincerely yours,

Bryan T. Hapeman

Bryan T. Hapeman, President Hapeman Electronics, Inc 724 974 9331