**Form N: Detailed Specifications 21603** *Insert Detailed Specification Number*

**supply and delivery of a cnc plasma cutting system** *Insert Tender/RFP Title*

1. **INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS** *SPEC NOTE: The following clauses are repeated in the Tender/RFP under Detailed Specifications, if revised ensure the Tender/RFP is also revised.*
   1. All items in these specifications should be answered indicating compliance or non-compliance.
   2. **Bidder/Proponents shall state “yes” for compliance or state “deviation”**, or give a reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specifications is used, the City will also consider deviations and/or equivalents.
   3. Lengthy explanations of deviations may be included in a separate document and must reference the appropriate Detailed Specification.
   4. Each Bidder/Proponent is required to fill in every blank. Failure to do so may be used as a basis for rejection of bid/proposal.
   5. It will be the responsibility of the Bidder/Proponent to inform the City of any errors or omissions in these Detailed Specifications, for under this Contract, the Contractor shall be held responsible to ensure that the manufacturer will be responsible for the design, performance, reliability and satisfactory operational function of the unit.
2. **DESCRIPTION OF EQUIPMENT** *add, revise or delete information below as required*
   1. These specifications describe a **CNC Plasma Cutting System*Insert equipment name***and other equipment and features as specified herein.
   2. The **CNC plasma cutting system** *Insert equipment name* shall be a new 2021*Insert year* model year or newer.

*Version 1 delete if using version 2, modify as necessary*

* 1. The **CNC plasma cutting system** *Insert equipment name* 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.

*Version 2 delete if using version 1, modify as necessary*

1. **OTHER SPECIFICATIONS AND STANDARDS**
   1. All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning minimum acceptable standards.
   2. **CNC Plasma Cutting System** *Insert equipment name* shall comply with the applicable regulations: *delete or add as applicable*

CSA Standard Z432-16: Safeguarding of machinery as referenced in Manitoba Regulation 217/2006

Emergency Stopes shall comply with CSA Standard Z432-16: Safeguarding of Machinery Section 7.15

Emergency Stops shall be red, mushroom-style, self-latching, have a yellow background and not cause a cycle start upon reset.

1. **SERVICE FACILITY**
   1. For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type of equipment being offered. Further to 9.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

*From here on would be your specific Form N: items dependent on the product (I’ve left a few below because I had questions on them)*

1. **QUALIFICATIONS OF CONTRACTOR** 
   1. The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining the same and/or similar types of the CNC Plasma Cutting System being requested.
2. **ELIGIBLE MODELS AND MANUFACTURERS**
   1. Standard Definition CNC Cutting System Eligible Make and Model: Koike Shop Pro XHD CNC Cutting Machine, Machitech Silver Cut CNC Cutting Machine, Fast Cut G8 Fabricator or Equivalent in accordance to B6. Substitutes
   2. Plasma Power System Eligible Make and Model: Hypertherm Maxpro200 or Equivalent in accordance to B6. Substitutes
   3. **CNC Cutting System Specifications**
   4. Unit supplied shall be a 2021 Model Year \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. Power Source:230/208v 3 phase \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Controls**

* 1. Controller Console shall be mounted to Table or on pedestal arm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. Approx. 18” Color Touch Screen Operator Control Console \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  3. Licensed CNC/CAD/CAM software preinstalled \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  4. CNC integrated Z- axis Torch Height Control \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  5. Magnetic Breakaway Torch \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  6. Ability to scribe, etch or mark hole placement or

product / part identification information on

materials being cut. **State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Table Type**

* 1. Fully Welded Unitized Heavy Duty Steel Frame \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. 6’ X 12’ Cutting dimensions \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  3. Cutting Surface Down Draft Exhaust Capable **State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  4. Gantry shall have 10” clearance from table surface **State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  5. Quick access to manually remove scrap or slag from

table bed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Drive System**

* 1. X-axis dual linear Helical Rack and Drive Pinion **State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. Y-axis Helical Rack and Drive Pinion \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  3. Motorized Z-axis shall be fully enclosed **State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  4. **State make, model and year of equipment being bid: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Plasma Power System**

Note, the pricing for the requested Plasma Power System is to be included in the lump sum

on **Form B: Prices**

* 1. The Contractor shall provide a compatible plasma power source for the table they supply. The inputting power will 230/208v 3 phase.
  2. **State make and brand of plasma power system being bid: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **WARRANTY** 
   1. The Contractor shall provide all detailed published warranty information (including all exclusions) at the time of delivery of the equipment. State the following warranties:
   2. Cutting Table: **State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Drive Motor: **State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. Plasma Power Source: **State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. **REMOVAL OF EXISTING PLASMA TABLE** 
   1. Removal of the existing Baileigh PT-510HD table

and Cutmaster A120 Plasma Power Source. The

removal costs are to be included in the lump sum

**on Form B Prices State** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **DELIVERY AND INSTALLATION**
   1. Delivery Point: The complete unit shall be services, ready for operation

and delivered F.O.B with the freight prepaid, including the invoice to the

WFMA 215 Tecumseh St, Winnipeg MB Location. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Delivery Time: Five to six (5 – 6) calendar weeks from the date of award

Equipment shall be delivered between 8:00 am and 3:00 pm on

Business Days.

**State:** earliest delivery time from date of award \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. P.D.I: A pre-delivery inspection shall be performed by the Contractor

on the equipment. Proof upon inspection including completed check list \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Installation: Contractor shall install the CNC Plasma Cutting System

Complete and ready for service. (the city of Winnipeg will coordinate

electrical set up) and will be using our existing Contrinex

YCA-50K4-3400-G012 Safety Light Curtains for this new CNC

Plasma Cutting System. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. After the CNC Plasma Cutting System installation is completed, a

documented post installation inspection shall be performed by the

Contractor on the equipment verifying that it was installed correctly and

now ready for use. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**MANUALS**

* 1. Manuals supplied under this Contract. The manuals shall cover the

complete equipment including all components thereof, applicable

versions in electronic format of a memory stick/jump drive is preferred

where available. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Operator’s manual: One (1) shall be supplied with the unit when

delivered. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_