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1.0 INTRODUCTION

The City of Moose Jaw (the City) is requesting a tender submittal from currently certified materials testing laboratory by the Canadian Council of Independent Laboratories (CCiL) (Consultant) for the provision of materials testing at various locations throughout the City of Moose Jaw for the 2017 construction year. This tender is structured so that each testing category (asphalt, concrete, soils, etc.) could potentially be awarded to separate bidders.

2.0 PROJECT CONTACT

Inquiries regarding all aspects of the project shall be directed to:

Mark Caringal
Engineering Tech II

Office: (306) 694-4557
Email: MCaringal@moosejaw.ca

3.0 HOURS OF WORK

The hours of work under this contract are from 7:00 a.m. to 10:00 p.m. on non-statutory weekdays and between the hours 9:00 a.m. and 10:00 p.m. on Sundays and Statutory holidays. The hours of work may only be extended with written approval from the Manager of Engineering Services.

4.0 DESCRIPTION OF THE WORK

All construction projects undertaken by the Engineering Department of the City of Moose Jaw require 3rd party materials testing services. The required material testing is related to asphalt restoration/rehabilitation projects, concrete repair/construction projects, and sewer/water design and construction.

5.0 COMMUNICATION

The Consultant will designate a Project Manager/Supervisor, whom, with the City Engineer or his designate, will form the primary link between the Consultant and the City. All instructions, guidance, data and reports will flow between these two persons. The Project Manager will communicate with the City Engineer or his designate to discuss progress, schedule, clarify instructions and to solve problems as required. It is the responsibility of the Consultant to ensure that a list of contact numbers of all supervisory staff including qualified technicians is provided prior to start the work.

6.0 CONSULTANT LABOUR AND EQUIPMENT RENTAL RATES

The successful Consultant(s) will be required to submit to the Engineer, a labour and equipment rental rate list prior to start of construction. These hourly rates submitted will be reviewed by the Engineer and when approved will be used for work in this contract where no unit prices are provided or where no unit prices can be agreed upon. The labour rate must stipulate whether overtime is included or not. Overtime unit rates must be included. The Engineer may request a breakdown of the labour and equipment rental rates submitted.

7.0 TENDER AWARD

Each testing category in this tender may be awarded separately, based on the lowest bid by a qualified Consultant for each type of testing. In other words, all testing specified in this tender (asphalt, concrete, soil, etc.) may be awarded to one qualified Consultant, or to separate bidders based on pricing and qualifications.

8.0 ASPHALT TESTING

8.1. Asphalt Testing requirements for Marshall and core samples:

- Marshall Samples:
- Gradation (ASTM C136 & C117)
 - Binder by mass of Aggregate (ASTM D6307)
 - VMA (ASTM D6995)
 - Voids Filled (ASTM D3203)
 - % voids (TSG basis) (ASTM D3203)
 - Stability (kn) (ASTM D6927)
 - Flow (mm) (ASTM D6927)
 - Density (ASTM D2726)
 - Sample Temperature
 - Stripping Potential (%) (Sask. Highways Method)

- Core Samples:
- % density of Marshall density
 - Insitu Air (%)
 - % air at 100% of Marshall
 - Core Density (kg/m³) (ASTM D2041)
 - Thickness – top lift (mm) (ASTM D3549)
 - Thickness – level course (mm) (ASTM D3549)
 - Original Thickness (mm) (ASTM D3549)
 - GPS coordinates (NAD 83 CSRS Zone 13)

8.2. Testing requirements for Micro-Surfacing:

a) Emulsified Asphalt Tests:

- Settlement and Storage Stability of Emulsified Asphalts, 24-hr. (ASTM D6930)
- Distillation of Emulsified Asphalt (ASTM 6997)
- Test on Residue from Distillation:
 - Penetration at 25 degrees Celsius (ASTM D5-06)
 - Softening point of Bitumen (Ring-and-Ball Apparatus) (ASTM 36)

9.0 CONCRETE TESTING

The quantity on the Bid Form under Section C refers to a total of thirty (30) concrete samples (for air entrainment & slump) with 3 cores cast from each sample for compression testing.

Concrete Tests Required:

- a) Air Entrainment (CSA CAN3-A266.1-M78)
- b) Slump (CSA A23.2)
- c) Compression (CSA A23.2-9C & A-23.1)

10.0 SOILS/AGGREGATE TESTING

Soils/Aggregate Tests Required:

- a) Density (Nuclear Densometer) (ASTM D6938)
- b) Standard Proctor (ASTM D698)
- c) Sieve Analysis (ASTM C136, C117)

11.0 SERVICE EXPECTATIONS

The City of Moose Jaw will provide a minimum 12 (twelve) hours' notice to the Consultant with the expectation that a materials testing technician may be required to arrive on-site within 12 hours of receipt of the request. Additionally, testing services may be required on evenings, weekends and on statutory holidays.

The reporting of field test results shall be verbally to the City of Moose Jaw's field representative immediately following testing. Following the verbal report, the test results shall be submitted to the Manager of Engineering Services as well as the field representative, in a typed format via email, within 24 hours.

All testing and sampling shall be reported to the City of Moose Jaw with reference to a defined location. The location must reference an existing piece of infrastructure by means of measured distance in meters, horizontally (x & y coordinates) from the piece of infrastructure. All asphalt cores require a GPS location with an accuracy tolerance of ± 2 metres.

All laboratory test results for soils shall include a description of the soil following the Unified Soils Classification System.

12.0 MOBILIZATION

All costing regarding mobilization shall be included in the unit rates for each type of test specified in these tender documents.

13.0 STANDBY

Standby time for the materials testing technician to be charged at Unit Rates as an extra to this Contract.

14.0 CERTIFICATIONS REQUIRED

The materials testing laboratory must be currently certified with the Canadian Council of Independent Laboratories (CCiL).

15.0 SAFETY PROGRAM

The Consultant shall ensure that their on-site testing staff has been provided with safety training with respect to the operation and transport of testing equipment as well as construction site safety training. The Consultant shall comply with the Occupational Health and Safety Act, R.S.A, Chapter 0-2, as amended and regulations here under (the “Act”).

16.0 TESTING LOCATIONS

The Consultant will be provided with the locations for required testing on a per-call basis. When the City contacts the consultant 12 hours prior to the required testing, the location of the required testing will be provided. Additionally, the City of Moose Jaw site representative will direct the testing staff on-site as to the physical locations of required testing. All locations will be in the municipal limits of Moose Jaw. The majority of the testing will be from June to November 2017.

17.0 PROGRESS PAYMENTS

The successful bidder is required to submit invoices to the City of Moose Jaw Engineering Department on a monthly basis at month end. The invoice shall be a complete billing for the previous month's services. Invoices are due and payable 30 days after being received by the City of Moose Jaw.

18.0 SUPPLEMENTARY CONDITIONS

18.1 INSTRUCTION TO BIDDERS – Contract/Bid Documents

18.1.1 Delete item no. 5 and replace with the following:

Tender documents can be obtained from www.moosejaw.ca and www.sasktender.ca. Tender documents are only available electronically.

- 18.2 INSTRUCTION TO BIDDERS – Bid Security & Consent of Surety
18.2.1 Delete item nos. 28 & 29 and replace with the following:

Bid Bond and Consent of Surety are not required for this tender.

END OF SPECIFICATIONS