

**04040 Supply of Asphalt Mix**

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**04040-1      General****1.1            Description**

This Section specifies requirements for supply of hot mix asphalt concrete to the City of Saskatoon for placement by its own forces or its agents.

The work includes supply of aggregates and asphalt cement, asphalt plant mixing and discharging of asphalt mix to the requirements of Section 04010 into vehicles operated by the City of Saskatoon.

**1.2            Related Work**

Bituminous Binder - Section 04005.

Asphalt Mix - Section 04010.

**04040-2      Specific Requirements****2.1            Materials****2.1.1          Asphalt Mix**

1. To the requirements of Section 04010, Asphalt Mix.
2. For specialty placement, the City may request a temperature increase above the maximum specified resulting in a decreased kinematic viscosity of approximately 50 centistokes (an approximate 20°C increase in temperature).

**2.2            Supply****2.2.1          Hours of Work**

Normal hours of work for the supply of asphalt mix will be 7:00 a.m. to 4:00 p.m. Exceptions to this schedule are to be mutually agreed upon by both parties 24 hours prior to the time of supply. The Owner reserves the right to extend the hours of supply beyond the normal 4:00 p.m. limit with 3 hours' notice.

### **2.2.2 Days of Work**

Normal days of work for supply of asphalt concrete shall be 5 days a week Monday through Friday. The Contractor shall be prepared to supply asphalt mix on weekends and statutory holidays with a preliminary and confirmation notice from the City for this supply of 48 hours and 12 hours respectively. Applicable premiums for weekend or statutory supply of asphalt mix shall apply. This amount per tonne would be added to the base price per tonne for any type of asphalt.

### **2.2.3 Rate of Supply**

The Contractor shall be prepared to supply the following quantities at a uniform rate during each working day:

Table 1: Rate of Supply

	Normal Day	Maximum Day
Type A1 or A2	450 tonnes	600 tonnes
Type 1 or 2	450 tonnes	600 tonnes
Type 3	300 tonnes	700 tonnes
Type 4	3 tonnes	10 tonnes

These rates shall be uniform throughout the day at no less than 40 tonnes per half hour per type.

The Contractor shall be capable of supplying each day all types of asphalt mix bid. If this condition is to be met by use of an alternate supplier, such shall be stated in the tender together with the name and plant location of the supplier.

To assist scheduling the City shall supply in writing each week, the estimated needs for the following week of each type and quantity of asphalt mix.

Changes to needs, quantities and/or temperatures will be given to the supplier on or before 2:00 p.m. the prior day.

### **2.2.4 Waiting Time**

Trucks supplied by the Owner shall be alternated between trucks supplying to the Contractor as it applies to receiving asphalt mix at the asphalt plant.

If either the Owner or Contractor has trucks supplying to more than one site, the apportionment of asphalt mix shall be made according to the total number of projects being supplied. When this alternating method is employed, the leading truck supplied by the Owner shall not have to wait more than 5 minutes to start loading.

### **2.3 Plant and Yard Facilities**

#### **2.3.1 Plant Location**

Asphalt mix supplied under this Contract is desired to be supplied from an asphalt plant located within the City limits. A location outside these limits will be considered on an evaluated basis wherein the cost of the City of increased haul distance is added to the bid price for purpose of comparison. The precise location of the plant must be stated in the tender.

#### **2.3.2 Asphalt Plant Capacity and Set Up**

The asphalt silos and associated equipment must have sufficient capacity to meet requirements under this section for the supply of multiple products tendered. The Contractor shall indicate plant capacity (tonnes) and number of silos in Schedule C of the Tender Form.

A sketch of the asphalt plant layout, entry and exit locations from the yards and stockpile size and capacity (tonnes) for each aggregate fraction as an attachment to the Tender Form.

#### **2.3.3 Scales**

The Contractor shall supply a suitable scale of approved design. Before any weighing of material, the Contractor shall provide to the Engineer a Certificate from the Department of Trade and Commerce to the effect that the scale has been certified.

#### **2.3.4 Truck Box Cleaning Facility**

The Contractor shall provide a facility at the plant site to spray the City's truck boxes with diesel fuel in order to remove asphalt mix adhered to the interior of the box.

**2.4 Compliance with Specifications****2.4.1 Materials**

1. All applicable adjustment factors and provisions for non-compliant asphalt mix shall be enforced to the requirements stated in Section 04010, Asphalt Mix.
2. No segregation in the asphalt concrete shall be attributable to the production of the asphalt mix. If segregation occurring in the final mat is caused by the operation of the asphalt plant, asphalt mix production shall be ceased, the cause determined and corrective action taken.

**2.4.2 Supply**

Further to General Conditions Section 00705-22, if the Seller fails to supply the specified materials or meet provisions under this section, the City may without terminating this Contract;

1. Secure other sources of supply immediately upon written notice to the Contractor, until the Contractor can demonstrate that their product meets specifications and provisions under this Section. The City shall deduct from the Contractor's payment an incremental cost to secure an alternate supply. The total contract price shall be reduced accordingly.
2. Terminate acceptance of materials immediately upon written notice to the Contractor until the Contractor can demonstrate that their product meets specifications and provisions under this Section. The City shall deduct from the payment due the Contractor damages resulting from lost production and or delay in schedule.
3. Deduct from the payment due the Contractor damages resulting from lost production and or delay in schedule for plant breakdown.

**04040-3 Measurement****3.1 Asphalt Mix**

Asphalt shall be measured in tonnes of material loaded as determined by scales at the Contractor's plant location.

Material is to be scaled and recorded by the Contractor on duplicate weigh slips. Weigh slips must be signed by both parties at the time of loading and a copy supplied to the

City of Saskatoon. Tickets shall include a ticket number, gross, net and tare weights, truck number and cumulative total by asphalt type and project for that day. A summary of daily asphalt quantities giving ticket number, time, date, and quantity by asphalt type and subtalled by project shall be submitted to the City on a daily basis.

The weight of each vehicle shall be determined while the truck is on the scale prior to loading with hot mix asphalt.

The premium for weekend or statutory holiday supply shall be measured in tonnes of material loaded as determined by scales at the Contractor's plant location. This amount per tonne would be added to the base price per tonne for any type of asphalt.

### **3.2            Truck Box Cleaning**

Truck box cleaning shall be measured per each truck box sprayed with diesel fuel.

## **04040-4      Payment**

### **4.1            Asphalt Mix**

Payment for asphalt concrete will be at the contract unit price per tonne adjusted as per the specified adjustment factors for air voids and stability.

The unit price will be full compensation for removing overburden, excavating, crushing, screening, stockpiling, and drying the aggregate; supplying, heating and storing the asphalt cement; mixing and loading the asphalt mix.

### **4.2            Truck Box Cleaning**

Payment for truck box cleaning shall be at the contract unit price per each truck box cleaned. The unit price shall be full compensation for providing a pressured diesel fuel sprayer as the washing medium at the asphalt plant site.

**End of Specification 04040**