

## 52.7 SUPPLY AND STOCKPILE SAND

### 52.7.1 GENERAL

The Work consists of picking up sand from existing Department stockpiles or supplying sand when required, and stockpiling the sand at the Contractor's storage sites. The sand is used in winter maintenance activities.

### 52.7.2 MATERIALS

When required, the Contractor shall supply sand in accordance with Specification 55.4, Supply of Aggregate and produce sand to the following gradation in accordance with Specification 55.3, Aggregate Production and Stockpiling.

Metric Sieve (CGSB 8-GP-2M) F m	Percent Passing Metric Sieve
10 000	100
5 000	70 - 90
1 250	20 - 45
315	9 - 22
160	5 - 15
80	0 - 10

The Contractor may be permitted to supply materials of differing gradation characteristics providing the source and gradation will in the opinion of the Engineer, achieve the desired result.

Sand obtained from Department stockpiles may require processing.

The Contractor shall be considered the owner of the stockpiled sand until such time as the sand is placed on the roadway for use in winter maintenance activities.

### 52.7.3 SAND STORAGE SITES

The Contractor shall supply all required storage sites. The minimum sand storage capacity for each Contract Maintenance Area will be specified in the Special Provisions. The actual location of the storage site(s) within each CMA shall be determined by the Contractor with the exception that the Department may identify critical areas which must contain a specified number of sites and/or capacity for material. Any critical areas and the associated requirements for storage sites will be identified in the Special Provisions.

The actual amounts of sand required at each storage location will be determined jointly by the Contractor and the Engineer.

#### 52.7.3.1 Procedure

The Contractor shall pick up sand from a Department stockpile and process the material when necessary, or supply sand from other sources of his choice.

#### **52.7.4 SAMPLING AND TESTING**

The Contractor shall undertake the quality control and quality assurance testing as required by the QC/QA Program as shown in the Special Provisions. The Contractor shall supply material samples to the Engineer for QA (Audit) testing purposes when requested.

Upon request and prior to delivery of any materials, the Contractor shall provide the sieve analysis results to the Engineer.

#### **52.7.5 TIME TO COMPLETE**

The Contractor shall complete the Work within 60 calendar days of the issuance of the Work Order.

#### **52.7.6 MEASUREMENT AND PAYMENT**

##### **52.7.6.1 General**

Measurement will be made in tonnes of sand placed in stockpile.

Payment for the supply of sand will not be considered to constitute ownership of the material by the Department. The Contractor is considered the owner of the material until such time as the material is placed on the road.

The cost of providing storage sites will be considered included in the unit price bid for "Indirect Operating Costs."

##### **52.7.6.2 Contractor Supply of Sand**

Payment will be made at the unit price bid per tonne for "Sand - Supply and Stockpile." This payment will be full compensation for producing, hauling and stockpiling the sand at the Contractor's storage site, and all labour, materials, equipment, tools and incidentals necessary to complete the Work.

Payment for supply of sand will be made in accordance with Specification 55.4, Supply of Aggregate.

##### **52.7.6.3 Department Supply of Sand**

Payment for hauling will be made in accordance with Specification 55.2, Hauling

##### **52.7.6.3.1 Previously Processed Sand**

Payment will be made at the unit price bid per tonne for "Sand - Pick up and Stockpile". This payment will be full compensation for excavating the processed sand from an existing stockpile, stockpiling the sand at the Contractor's storage site, and all labour, equipment, tools and incidentals necessary to complete the Work.

##### **52.7.6.3.2 Unprocessed Sand**

Payment will be made at the unit price bid per tonne for "Sand - Pick up, Process and Stockpile". This payment will be full compensation for excavating the sand from an existing stockpile, processing the sand, stockpiling the sand at the Contractor's storage site, and all labour, equipment, tools and incidentals necessary to complete the Work.

#### **52.7.7 WARRANTY**

There is no warranty period for this Work.