1. DESCRIPTION

1.1 This specification contains the terms and conditions applicable to suppliers of sodium chloride granular intended for deicing roadways.

2. PRODUCT SPECIFICATION

2.1 The material shall consist of:

Soluble Chlorides	Minimum	97.0%
Sodium Chloride	Minimum	95.0%
Insoluble Matter	Maximum	1.0%
Moisture Content	Maximum	0.5%

2.2 The types of material will have the following gradations based on dry weight as determined by Canadian Metric Sieve analysis:

Canadian Sieve Size	Percent Passing			
	COARSE	**MIXED**	**MEDIUM**	**FINE**
12.0 mm	100%	100%	100%	100%
9.00 mm	65 - 100%	100%	100%	100%
5.00 mm	45-100%	65-100%	100%	100%
2.00 mm	10-55%	35-85%	60-100%	85 - 100%
900 um	0-25%	15-60%	35-85%	40 – 100%
400 um	0-15%	0-30%	0-60%	0 - 90 %
71 um	0-5%	0-5%	0-8%	0 - 10%

2.3 The supplier shall provide Material Safety Data Sheets (MSDS) as required by Workplace Hazardous Materials Information System.

3. DELIVERY

3.1 The material shall be delivered in accordance with the Ministry's Specifications for Manufactured Materials (SMM) 604 General Provisions For Deicing Material Supply Contracts.

4. SAMPLING AND TESTING

4.1 The material shall be sampled and tested in accordance with SMM 604 General Provisions For Deicing Material Supply Contracts. In particular Standard Test Procedure (STP) 112 Sodium Chloride Granular and STP 209-8 Moisture and Sieve Analysis Of Sodium Chloride.

4.2 Testing will be conducted by the Ministry's Designated Laboratory in accordance with following methods or procedures:

Sieve Analysis and Moisture Content	STP 209-8
Soluble Chloride Content(*)	Silver Titration
Sodium Chloride Content(*)	Inductive Coupled Plasma
Insoluble Matter Content(*)	1.0 um Glass Fibre Mesh

(*) Performed by Saskatchewan Research Council (SRC) in Saskatoon.

4.3 Pay adjustments will be based on samples obtained by Ministry staff from the Salt Suppliers manufacturing facility and tested for the characteristics shown on the Sodium Chloride Pay Adjustment Form.

4.4 If requested by the Ministry, the supplier will provide a 2.5 kilogram representative sample of the desired type of sodium chloride prior to the delivery of any order, for the purpose of determining the acceptability of the material.

5. PAY ADJUSTMENTS

5.1 The material shall be liable to pay adjustments in accordance with SMM 604 General Provisions For Deicing Material Supply Contracts.

5.2 Any pay adjustments will apply to 500 tonne lots from which the sample is taken.

5.3 The salt supplier will keep a cumulative total of the number of tonnes supplied to the Ministry. For every 500 tonnes of salt delivered one representative sample will be randomly taken from the plant location. The sample will represent the 500 tonnes supplied to the Ministry. The sample will be subdivided into three representative smaller samples, one for the Ministry, one for the supplier, and one referee sample. The Ministry's designated laboratory will test the first sample and supply the results to the supplier. If the supplier does not agree with the original test results they may request the referee sample to be tested. The referee sample will be held by the Ministry. The results of the referee sample will be the final results which pay adjustments are calculated on.

5.4 Pay adjustments will be calculated by means of factors shown on the Sodium Chloride Pay Adjustment Form. The number of units outside the specification requirement will be multiplied by the corresponding factor to get the number of adjustment points. The sum of the number of adjustment points will be used to calculate the pay adjustment according to the following formula:

Payment Adjustment = (Payment Adjustment (%) * $20 /tonne*500 tonnes)

5.5 There will be no pay adjustment assessed on the lot if the sum of the adjustment points for the load is five or less.

5.6 Lots on which no tests are performed will be accepted without pay adjustments. Lots, on which gradation tests are performed, shall have no pay adjustment if the results have not been forwarded to the supplier within four weeks of the sample date. Since our chemical analysis is performed by outside agencies, pay adjustments resulting from these test results shall have no time restrictions.

5.7 The Ministry in co-operation with the supplier will ensure one representative sample is taken for every 500 tonnes of salt delivered.

6. MEASUREMENT

6.1 The material shall be measured in accordance with SMM 604 General Provisions For Deicing Material Supply Contracts.

6.2 All sodium chloride granular will be measured in tonnes.

7. INVOICING AND PAYMENT

7.1 The material shall be invoiced and payment made in accordance with SMM 604 General Provisions For Deicing Material Supply Contracts.

SODIUM CHLORIDE - PAY ADJUSTMENT FORM

DEPARTMENT ORDER NO._____ GRADATION TYPE (Mixed, Medium, Fine)_____

BEGINNING ORDER NO._____ ENDING ORDER NUMBER_____

TONNE LOT NO._____ SAMPLE SUBMITTED BY_____

DATE SAMPLED_____ DATE TESTED_____

	SPECIFICATION LIMITS MIN.	MAX.	TEST RESULTS	NUMBER OF UNITS OUTSIDE SPEC.	MULTIPLIER FACTOR	NUMBER OF ADJUSTMENT POINTS
CHEMICAL COMPOSITION						
Soluble Chloride	97				1.0	____
Sodium Chloride	95				5.0	____
Insoluble Matter		1.0			6.0	____
MOISTURE CONTENT		0.5			50.0	____
GRADATION COMPOSITION						
Sieve Size						
9.0 mm					1.0	____
5.0 mm					0.3	____
2.0 mm					0.3	____
900 um					0.3	____
400 um					0.3	____
71 um					0.3	____

PAYMENT ADJUSTMENT (IN PERCENT) = TOTAL SUM OF ADJUSTMENT POINTS =_____%

NOTE: If payment adjustment assessment is 5.0% or less, no payment adjustment will be assessed against load.

If payment adjustment assessment is in excess of 100%, no payment will be made for the lot.

TESTED BY: _____ APPROVED BY: _____

DATE: _____ DATE: _____

Copies: Preservation Standards Specialist, Salt Supplier.