

ANNEX C

1. Scope

- .1 The work covered under this project consist of the furnishing of all plant, labour, equipment, hardware and materials, for the supply of treated and untreated dimension timber, complete in strict accordance with Specifications and subject to all terms and conditions of contract.

2. Description

- .1 The work will consist of but will not necessarily be limited to the following:
.1 Supply, load, transport and off-loading of treated and untreated dimension timber to various locations In Newfoundland.

3. Call-up

- .1 Material lists will be developed by the departmental representative for each of the sites and materials will be supplied and delivered to the sites by the contractor on an as and when required basis.

4. Site of Work

- .1 Timber will be delivered to various locations in Newfoundland and Labrador.

5. Abbreviations

- .1 Following abbreviations of standard specifications have Been used in this specification.

CGSB – Canadian Government Specifications Board
CSA – Canadian Standards Association
NLGA – Nations Lumber Grades Authority
ASTM – American Society for Testing and Materials

- .2 Where these abbreviations and standards are used in this project, latest edition in effect on date of tender call will be considered as applicable.

6. Site Operations

- .1 Exercise care so as not to obstruct or damage public or private property in area. Do not interfere with normal day to day operations in progress at site.

7. Protection

- .1 Store all materials and equipment to be incorporated into work to prevent damage by any means.
- .2 Replace all materials damaged in transit to the satisfaction of and at no cost to the Departmental Representative.

8. Taxes & Permits

- .1 Pay applicable federal, provincial and municipal taxes.

9. Invoicing

- .1 Contractor is required to notify Departmental Representative.
- .2 Invoice must show:
 - .1 Contract Number
 - .2 Work Location
 - .3 Description of Work
 - .4 Project Number
 - .5 Quantities broken down as per the Unit Price Table
- .3 Contractor will provide the Departmental Representative with two (2) copies of the materials delivered to the site, for his review and signature. One (1) copy is to be retained by Departmental Representative.
- .4 In the event of a dispute, the contractor is to make any and all records available to the Department to substantiate invoiced amounts.

1. Related Requirements

- .1 Particular requirements for inspection and testing to be carried out by testing laboratory designated by Engineer are specified under various sections.

**2. Appointments
And Payment**

- .1 Engineer will appoint and pay for services of testing laboratory except for the following:
 - .1 Inspection and testing required by laws, ordinances, rules, regulations or orders of public authorities.
 - .2 Inspection and testing performed exclusively for Contractor's convenience.
 - .3 Tests specified to be carried out by contractor under the supervision of Engineer.
 - .4 Additional tests specified in paragraph 2.2.
- .2 Where tests or inspections by designated testing laboratory reveal work not in accordance with contract requirements. Contractor shall pay costs for additional tests or inspections as Engineer may require to verify acceptability of corrected work.

**3. Contractor's
Responsibilities**

- .1 Furnish labour and facilities to:
 - .1 Provide access to work to be inspected and tested.
 - .2 Facilitate inspections and tests.
 - .3 Make good work disturbed by inspection and testing.
 - .4 Notify Engineer sufficiently in advance of operations to allow for assignment of laboratory personnel and scheduling of tests.
 - .5 Where materials are specified to be tested, deliver representative samples in required quantity to testing laboratory.

3. Contractor's
Responsibilities (cont'd)

6. Pay costs for uncovering and making good work that is covered before required inspection or testing is completed and approved by Engineer.

.1 No measurement for payment shall be made for items under this section. Work under this section shall be considered incidental to the work.

PART 2 – PRODUCTS

**2.1 Preservative
Treatments**

- .1 Treat with CCA or ACA or pentachlorophenol (Penta) or other approved treatment to CSA 080 M1983, commodity standard 080.18, Table 1 and its referenced standards, with the following minimum assay retentions:

<u>Species</u>	CCA kg/m3	ACA Kg/m3
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Dimension Timber

- Douglas Fir	30	30
- Western/Eastern Hemlock	30	30
- Birch/Maple	Treat to refusal	
- Hemlock, Douglas Fir (Wood Decking)	24	24

Round Timber Piles

- Coast Douglas Fir	30	30
- Red Pine	30	30
- Jack Pine	30	30
- Southern Yellow Pine	30	30

Utility Timber

- Birch or Hemlock Pre-cut and drilled to industry Standards	6.4	n/a
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*Birch and Maple must be air-dried for six (6) months in weather protected environment or kiln-dried.

Utility Poles

	CCA	Penta
- Coast Douglas Fir	9.6	7.2
- Red Pine	9.6	6.4
- Lodgepole Pine	9.6	9.6
- Southern Yellow Pine	n/a	4.8

2.2 Materials

- .1 Round Timber Piles: to CAN3-056 M79 Clean Peeled Piles with minimum butt size of 300 mm and tip diameter related to length.
- .2 Round Timber Poles: to CSA 01S-97, machined peeled for bark removal. All standard utility industry classes and lengths of poles to be available. Treatment shall meet assay, penetrations and retentions for poles in Table 1 of CSA-080.4-97.

PART 3 – EXECUTION

3.1 Field Treatment

- .1 Field treatment of timbers is prohibited.
 - .1 Handle pressure treated material in a manner that will avoid damage which may expose untreated material. Rejection of any damaged material may result and replacement will be required at the Contractor's expense.

3.2 Field Quality

- .1 Timbers which contain rot, splits, exposing untreated wood, excessive wane, or timbers which cannot be fastened in the work so as to be structurally sound are unacceptable.
- .2 The Departmental Representative reserves the right to carry out field testing of treated timber for penetration and retention of preservative. Timber not meeting the requirements of the specification may be rejected for use under the contract.

PART 1 – GENERAL

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| <u>1.1 Description</u> | .1 | This section specifies requirements for supply and delivery of Structural Timber. |
| <u>1.2 Related Work</u> | .1 | Wood Treatment Section 06300 |
| <u>1.3 Protection</u> | .1 | Avoid dropping of treated timber and bruising or breaking of wood fibres. |
| | .2 | Avoid breaking surfaces of treated timber. |
| <u>1.4 Delivery and Storage</u> | .1 | Store timber horizontally, evenly supported and open piled to permit air circulation when stored for prolonged period. |
| | .2 | When handling long timber, provide support at sufficient number of points, properly located to prevent damage due to excessive bending. |
| | .3 | Handle treated timber with hemp, manila or sisal rope slings or other approved means of support that will not damage surface. |
| | .4 | Do not use sharp pointed tools to handle treated timber. Any timber so handled will be rejected. |
| <u>1.5 Measurement Of Payment</u> | .1 | <u>Treated/Untreated Dimension Timber</u> – The supply of treated and untreated dimension timber will be measured by the cubic metre of timber, loaded, delivered and off-loaded at various locations in Newfoundland and Labrador. For measurement purposes, refer to categories as scheduled in the Unit Price Table. |
| | .2 | <u>Treated Timber Piles and Poles</u> – The supply of treated timber piles and poles will be measured by the lineal metre of timber loaded, delivered and off-loaded at various locations in Newfoundland and Labrador. For measurement purposes, refer to categories in the Unit Price Table. |

**1.5 Measurement
Of Payment (cont'd)**

- .3 **Transportation:** All material will be F.O.B. to geographic areas within Newfoundland. Transportation costs will be calculated from the different geographic areas stated in the standing offer using the transportation cost as stated below.
- .4 **Transportation Cost:** Transportation cost will be measured on basis of the geographic areas stated in the standing offer. Any delivery outside the metro areas stated will also incur a per km rate listed within each of the geographic areas. Shipment going to Labrador may also incur ferry charges which will be stated separately on the invoice. Once timber has reached designated site, off-loading operations and associated costs will be the responsibility of the supplier.

PART 2 – PRODUCTS

2.1 Timber Materials

- .1 **Timber:** Use timber graded and stamped in accordance with applicable grading rules and standards of associations or agencies approved to grade lumber by Canadian Lumber Standards Administration Board of CSA.
- .2 **Species:**
- .1 **Softwoods:** Hemlock or Douglas Fir.
- .2 **Hardwood:** Birch or Maple.
- .3 **Wood Decking:** Fir, Spruce or Eastern Hemlock.
- .4 **Utility Poles:** Red Pine, Southern Yellow Pine, Lodgepole Pine, Coastal Douglas Fir, conforming to CSA-015-90.
- .5 **Utility Timbers:** Birch or Hemlock.
- .3 **Grade:** No. 1 Structural Grade.
- .1 All poles shall be side marked as per Canadian Standards Association's standard CAN/CSA-015-90, Clause 5.5.2, with a die-stamped metal tag, recessed below the pole surface and located 1.8 metres above the ground line as defined in Table 1 of Canadian Standards Association's standard CAN/CSA-080.8-97.

PART 2 – PRODUCTS (Cont'd)

2.1 Timber Materials (cont'd)

- .2 In addition to the side marking requirements as per Canadian Standards Association's standard CAN/SCS-015-90, Clause 5.5.2, a three letter code representing the month of treatment shall be added to the die-stamped metal tag. The tree letter code representing the month is shown in Table 1.

Jan	January	Jul	July
Feb	February	Aug	August
Mar	March	Sept	September
Apr	April	Oct	October
May	May	Nov	November
Jun	June	Dec	December

- .3 Pole butts shall be marked as per Canadian Standards Association's standard CAN/CSA-015-90, Clause 5.5.1 with a tag indicating the Supplier's code or trademark, pole species, plan location and year treated, class and length of pole.

- .4 Grading Authority: NLGA

- .5 Preservative Treatment:

- .1 Treat to CSA 080, for coastal waters and Section 06300. Timbers will be treated in the lengths required. Unnecessary field cutting will not be permitted.

PART 3 – EXECUTION

3.1 Delivery

- .1 All materials will be delivered and off-loaded at various sites, Newfoundland and Labrador.
- .2 Delivery normally required within two (2) weeks from receipt of call-up. Occasionally delivery may be required within (1) one week.