



# 810-2006 ADDENDUM 1

## NEWPCC - SUPPLY AND DELIVERY OF CIRCULAR PRIMARY CLARIFIER EQUIPMENT

### **URGENT**

**PLEASE FORWARD THIS DOCUMENT TO  
WHOEVER IS IN POSSESSION OF THE BID  
OPPORTUNITY**

ISSUED: January 17, 2007  
BY: Rudy Derksen, P.Eng.  
TELEPHONE NO. (204) 896-1209

**THIS ADDENDUM SHALL BE INCORPORATED  
INTO THE BID OPPORTUNITY AND SHALL  
FORM A PART OF THE CONTRACT  
DOCUMENTS**

Template Version: A20060821

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

### **PART B – BIDDING PROCEDURES**

Revise: B2.1 to read: The submission deadline is 4:00 pm. Winnipeg time, January 30, 2007.

### **PART D – SUPPLEMENTAL CONDITIONS**

Add: D16.3 to read: The maximum liability for liquidated damages shall be the contract value.

Add: D18 Indemnity

Add: D18.1 Notwithstanding GC.7.03 (1), the maximum liability for this Contract shall be twice the Contract value plus two million dollars (\$2,000,000.00), except to the extent due to the negligence or wilful misconduct of the City.

### **PART E – SPECIFICATIONS**

Revise: Section 11000, Item 1.6.4.

Provide protection during storage, handling and Transport. The Contractor shall identify each component with durable labels or tags securely attached to each piece of equipment, crate or container.

Revise: Section 11000, Item 1.6.5.

Protect polished and machined metal surfaces from corrosion and damage during shipment and storage. Protect threaded connections with threaded plugs or caps. Pack electrical equipment and control panels to prevent scratching, access by dirt, moisture, or dust or damage to insulation. Cover equipment having exposed bearings and glands so as to exclude foreign matter. All openings in the equipment shall be covered before placement in storage.

Revise: Section 11000, 2.1.4: -

.4 The equipment furnished for each clarifier mechanism shall include but not be limited to:

- **Walkway Enclosure**
- Walkway
- Center drive assembly,
- Center drive platform,
- Centre support column with inlet openings,
- Energy dissipating inlet (EDI),

- Feedwell
- Centre cage,
- Sludge collection arms with rake blades
- Surface scum skimming equipment
- Effluent weir plates and scum baffle
- Anchorage parts
- Anchorage parts, anchor bolts, gaskets and assembly fasteners.

Revise: Section 11000, Item 2.6.12.

The motor shall be suitable for Class 1, Division 1, Group D locations. It shall be rated 575V, 3ph, 3W.

Revise: Section 11000, Item 2.6.19.

The main gear shall rotate and be supported on a ball bearing assembly provided with four replaceable liner strips fitted into the main gear and turntable base. Liner strips shall be special vacuum degassed carbon corrected, alloy steel hardened to a Rockwell hardness of at least 38 to 42 Rc. The turntable base shall be a minimum 25mm (1") thick to insure adequate structural rigidity to properly support the drive bearing and gear. Forged alloy raceway fully contoured precision bearings sets are also acceptable.

Replace: Section 11000, Item 2.7.1.1 with the following:

Provide a 1.0m (39") clear, open width walkway extending from the tank wall to the center drive platform. Support the walkway at the center by the drive unit and on the opposite end by the tank wall. As a minimum the walkway shall be designed to safely withstand all dead loads plus a live load of 4.8 kN/m<sup>2</sup> (100 psf) with a maximum deflection of 1/360 of the entire span. The walkway shall consist of two (2) trusses, sufficiently braced to resist the specified design loads. Truss height shall be 1070mm (42") and be provided with a midrail. Alternatively the walkway can be supported from the enclosure framing.

Replace: Section 11000, Item 2.7.1.6 Paragraph 3 with the following:

The handrailing shall be 38mm (1-1/2") diameter anodized aluminium pipe, 2-rail design, with fittings factory assembled to posts. Ship railings in stock lengths for cutting and fitting.

Replace: Section 11000, 2.7.2 with the following:

#### 2.7.2 Enclosure

- .1 General – The walkway shall be protected by a metal clad insulated enclosure. The width and height of the enclosure shall match the dimensional requirements of the existing enclosure as shown on the existing enclosure drawings attached. The walkway shall be offset within the enclosure.
- .2 Design Requirements – the walkway shall be supported at the center by the drive unit and on the opposite end by the tank wall. The enclosure shall be framed with galvanized steel. The enclosure shall be designed to support all dead, wind and live loads as per the requirements of the 2005 NBC. The walkway can be supported by the enclosure framing. Note on drawing NEP-86 the enclosure width is 10'-2". Also note in Clause 2.7.1.4 a requirement for a 3.8 meter wide center platform. As the enclosure is to cover this platform as well, the enclosure will have to be widened at the center platform to suit.
- .3 Wall and Roof Cladding – The roof and wall construction shall be prefabricated insulated metal panels. Cladding shall be prefinished galvanized sheet metal to G90 in accordance with ASTM A-446. Base metal to be 22 GA. thick. Insulation shall be rigid insulation with minimum insulation value of R20.

To allow the scum collector to pass into the walkway enclosure, provide sectional, hinges, suitable rubber panels similar to the existing approximately 450 mm high through which the scum blade can pass. The rubber panel face in contact with the scum paddle shall be covered by an aluminum plate to prevent deterioration of the rubber panel. In areas where the scum blade does not contact the hinged rubber panels, neither hinges or aluminum protective plates are required. The rubber panels shall extend into the water at no flow conditions, to prevent cold air from entering the enclosure. Provide a flexible weathertight seal to the building opening at the end of each enclosure.

The enclosure shall accommodate the mounting of lighting fixtures, conduits, a 600 x 600 duct, as well as a 600 x 600 framed roof or wall opening suitable for mounting an exhaust fan and louvre.

Delete: Section 11000, 2.10.5 – Delete this paragraph.

Revise: Section 11000, 3.4.3 with the following:

.3 Welding shall conform to CSA W59.1 and ASTM E709.

Add: Photos of the existing clarifiers for information (as listed below).

	<b><i>Photo No.</i></b>	<b><i>Title</i></b>
<b>Clarifier 1</b>	1-1	Effluent Weir
	1-2	Scum Trough & Discharge Box
<b>Clarifier 2</b>	2-1	Scum Trough Discharge Box
	2-2	Effluent Weir & Scum Baffle
	2-3	Clarifier Walkway Enclosure
	2-4	Clarifier Walkway Enclosure Connection
<b>Clarifier 3</b>	3-1	Concrete Clarifier Influent Pipe/Base
	3-2	Top of Concrete Clarifier Influent Pipe/Base
	3-3	Effluent Weir & Scum Baffle
	3-4	Scum Baffle
	3-5	Scum Baffle
	3-6	Effluent Weir & Launder
	3-7	Walkway Enclosure Hinged Scum Blade Access Panels
	3-8	Clarifier Drained
	3-9	Clarifier Drained
	3-10	Clarifier Drained
	3-11	Clarifier Drained
	3-12	Clarifier Drained
	3-13	Clarifier Drained
	3-14	Clarifier Walkway & Enclosure
	3-15	Enclosure Hinged Scum Blade Access Panels
	3-16	Walkway Enclosure Hinged Scum Blade Access Panels
	3-17	Walkway Enclosure Hinged Scum Blade Access Panels
	3-18	Walkway Enclosure