**Appendix A - Illinois Biodiesel Initiative – Fall 2012 Reactor System Design**

Mixer

$1,100

Mister $60

85 gallon

Cone Tank

Biodiesel Storage

Tote 400 gallon

$ 15,000

Flow cell

Pump

$2,500

Waste Vegetable Tote

Waste Vegetable Tote

400 Gallon

400 Gallon

Power supply

Diagram by Jae Kwan Song – IBI member

Wash Water Storage Tote

In-Line Heater

Ultrasonic Transducer

Cone Tank for Reaction and Wash

350 Gallon

Tote

Glycerin

$750

$322.90

$4,000

Methanol Recovery System

Methoxide