Bill of Materials	<u>Column1</u>	<u>Column2</u>	Column3	Column4
Material	Quantity	Source	Price of 1	Total Price
Motor	1	Automation Direct	\$91.00	\$91.00
Gear box (pulleys)	4	Hardware Store	\$42.50	\$170.00
Propane	1	Uhaul	\$33.00	\$47.00
Electronic Parts		Mainly Automation Direct	-	\$389.00
Regulator	2	Norco/ Uhaul	\$10.00	\$20.00
Tubing for tanks and heat source	3	Uhaul/ hardware store	\$29.33	\$88.00
9 in. Steel tube	1	Mcmaster	\$100.00	\$100.00
Galvinized Steel duct	1	Facilities	\$0.00	\$0.00
Flexible duct	2	Mcmaster	\$25.00	\$50.00
Propane burner	1	Hardware Store	\$30.00	\$30.00
Sheet metal	1	Facilities		\$0.00
Insulation	1	Hardware Store	\$20.00	\$20.00
Oxygen Sensor	1	Automation Direct	\$20.00	\$0.00
Thermocouples	3	Automation Direct	\$26.00	\$78.00
Rod	1	Facilities		\$15.00
Brass Bushings	2	Mcmaster	\$30.00	\$30.00
Random parts		Moscow Building Supply	-	\$56.00
Soleniod Valve	1	Amazon	\$34.65	\$34.65
Heat Wrap	1	Amazon	\$12.99	\$12.99
		Total	\$504.47	\$1,231.64

Column5			
Description			
1/2 HP 3600 RPM			
These are needed for reducing the RPM of the motor			
Standard tank needed for the boiler/ pyrolysis chamber respectively filled with 4.3 gallons for \$14.15			
electronic parts for connecting VFD and PLC and other sensors			
needed to be easily controlled			
Connective tubing for the system			
For the pyrolysis chamber, good heat exchange properties, 10", 5 feet long			
outer layer, 14" 5 feet long			
needed to connect the boler exhaust to the hopper and the boiler to the pyrolysis chamber, 14" and 4" diameter			
small furnance for the boiler			
for fabrication of parts, and in case we need it			
approx 8 ft long. And enough to cover 12" diameter			
needed for the Auger, Have to build 2 mounts for the journal bearings			