Arduino Part List

2 x Arduino boards (one for the dust counter) OK

2 x displays OK

2 x display background light - OK

2 x step down 12V/5V power supply OK

1 x relay shield 8 channel OK

1 x relay shield 16 channel (use the smaller unit and send back) OK

1 x IO shield OK

1 x Ethernet shield OK

1 x step motor driver OK

1 x dosage motor 12V OK

1 x AC controller 4KW (replace potentiometer) OK

2 x temperature sensor OK

1 x conductivity sensor OK

1 x turbidity sensor OK

1 x PH sensor (pending) OK

1 x main flow meter OK

**On/Off relay setup** (implement software and mark the relay with number when testing)

1 x pump – 220V – AC driver

1 x dosage pump – 12V – step motor driver

1 x vaccum pump – 12V – relay board

1 x UV light – 220V – relay board

1 x cooler – 12V/20A – 2 x relay board

1 x CO2 gas solenoid – 12V - relay board

1 x LED grow lights – 220V – 2 x relay board

Implement unused relays as Relay1 - n

**Analog sensor setup**

6 x temperature – 5 x 150cm, 1 x 250 Good

1 x PH (part pending) - 100cm OK

1 x conductivity - 100cm OK

1 x turbidity - 100cm OK

1 x main flow - 100cm

3 x pipe flow - 250cm

1 x gas flow – 250cm

1 x light intensity – 120cm

1 x humidity (part pending) - 100cm OK

1 x air pressure (part pending) - 100cm OK

**On/Off sensor items**

3 x level - In

Implement unused IOs as InOut1 – n