**Project Scope Document**

* Project Summary:

My project title is Smart Agriculture system based on IoT. In this project, I am collecting the temperature, humidity, soil moisture data from IBM Watson IOT sensor randomly. And also, I am collecting that data from open weather API in a particular region. That data also includes weather forecasts, temperature, sun rise, sun set, coord lon, lat and many more. And we are doing also motor on/off by using a button on interface which gives auto-control of pump. These types of things give us a lot to possible smart farming concept. Farmer can easily get these types of information just by pressing a single button.

* Project Requirements:

1. IBM Cloud
2. IBM Watson IOT Module
3. IBM IOT Stimulator
4. Node-Red
5. Python IDLE
6. Open Weather API
7. GitHub
8. ZOHO Writer

* Functional Requirements:

1. Temperature 5. Wind Speed
2. Humidity 6. Wind Angle
3. Soil Moisture 7. Motor on/off
4. Coord 8. Sun rise/set

* Technical Requirements:

1. IBM Cloud
2. IBM Watson IOT Module
3. IBM IOT Stimulator
4. Node-red
5. Python Idle
6. Open Weather API

* Software Requirements:

1. Python Idle
2. Node-Red

* Project Deliverables:

1. Concept of Various Topics
2. How to use Node-Red
3. How to Make UI
4. How to make an APP
5. How to send motor on/off data manually

* Project Team:

I am the only one person in my project team.

* Project Schedule:

Mentioned duration is 16.2 days.