

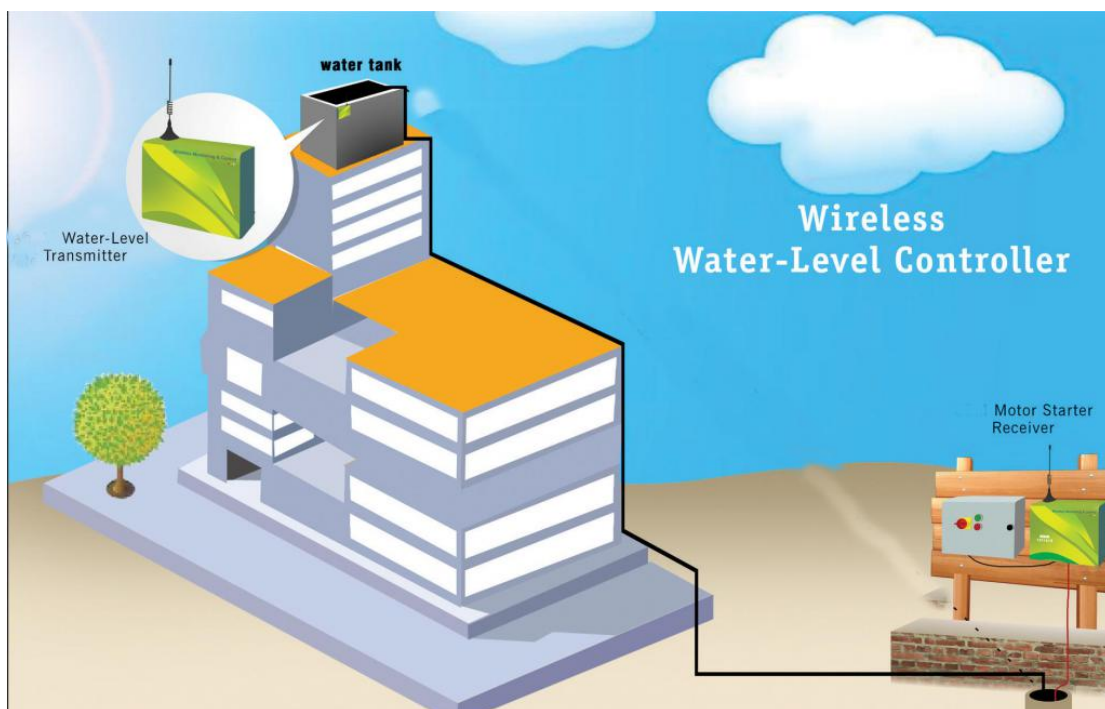
WIRELESS AUTOMATIC WATER LEVEL CONTROLLER [sump to oht with dry run] (single phase)

OUR UNIT DIAGRAM :



Motor con water Level Controllers for Industrial as well as Domestic / Commercial applications. The water level indicator employs a simple mechanism to detect and indicate the water level in the overhead tank or any other water container.

SCHEMATIC DIAGRAM OF COMPLETE UNIT :



TRANSMITTER :



In electronics and telecommunications a **transmitter** or radio **transmitter** is an electronic device which produces radio waves with an antenna. The **transmitter** itself generates a radio frequency alternating current, which is applied to the antenna .

- The unit is placed near the overhead water tank.
- Connect the transmitter unit to the power supply.
- Totally two sensors are used here, these sensors only detect the water level in the tank and send it to the transmitter from there the signal is transferred to the receiver.

The transmitter are also can be powered by using below things :



ELECTRICITY BOARD



BATTERIES



SOLAR PANEL



WIND MILL

RECEIVER :



- The unit is placed near the motor.
- When the signal received is received from the transmitter, the receiver starts the operation.
- If the water crosses the LOW LEVEL sensor in the tank, then it detect and transmit the signal to the receiver through the transmitter, the motor start running still it reaches the TOP LEVEL sensor .
- Once the water filled in the tank the TOP LEVEL sensor detect and transmit the signal to the receiver through the transmitter, then the motor return to OFF STATE.

It is used with an antenna. The antenna intercepts radio waves (electromagnetic waves) and converts them to tiny alternating currents which are applied to the **receiver**, and the **receiver** extracts the desired information. The information produced by the **receiver** may be in the form of sound, images, or data.

The receiver are also can be powered by using below things :



ELECTRONIC BOARD



BATTERIES



SOLAR PANEL



WIND MILL

FEATURE :

- Potential free contact inputs for sensors.
- Plastic molded magnetic sensors optional LED indications for sensor status.
- Relay output to switch pump on off.
- Manual Override Switch.
- Compact wall mount unit.
- True Sensing technology with 2 level indication of over head tank.
- Once if the water level reached the minimum predetermined level, this is indicated by low level indication(red)
- When water is pumping to over head tank it shows Motor on indication (green). This indicates the device get started functioning.
- Once if water reaches the top level the motors returns to off state, it shows indication by top level (yellow).
- Switches OFF the pump when the water level reaches the minimum level in the underground tank therefore prevent motor life. This is indicated by only UNIT ON led (red) only glow.
- Shall again switch ON the Pump when there is Sufficient Water in the Underground Tank [SUMP], this is indicated by sump indication(red).
- Press button available for manual/reset.

SPECIFICATIONS :

- Input voltage:230V
- Max. output:2.5 hp
- Working range: up to 500 meters , Wireless operation.

ADVANTAGE :

- No Tension of Turning ON/OFF Pump
- Pump turns ON at right time
- Overhead Tank remains Full
- No Water Wastage; No Power Wastage
- Water Level Indicator for Overhead Tank
- No current / voltage are passed through water, therefore any electrolysis. Salt deposition.

MAGNETIC FLOAT SENSOR :



FEATURES :

Plastic Float Switch Protect You From Electric Shock In Water Tank
Unlike Metal Probes

SENSOR FUNCTION :

- ◆ When there is no water in the Tank - There is no Contact (Circuit is Open)
- ◆ When water touch the sensor or if the sensor is immersed in water - There is Contact (Circuit is closed)
- ◆ Material : Polypropylene (PP) .

SUMP FLOAT :

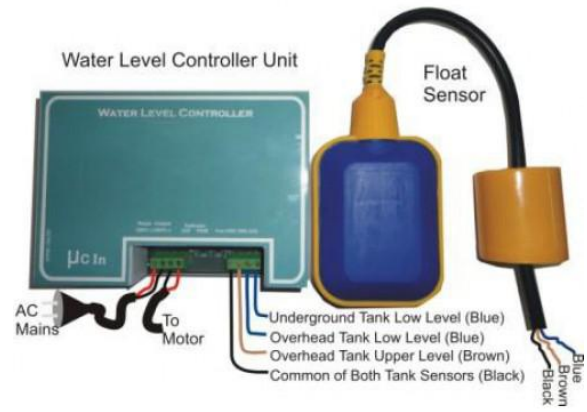


DRY RUN SWITCH :

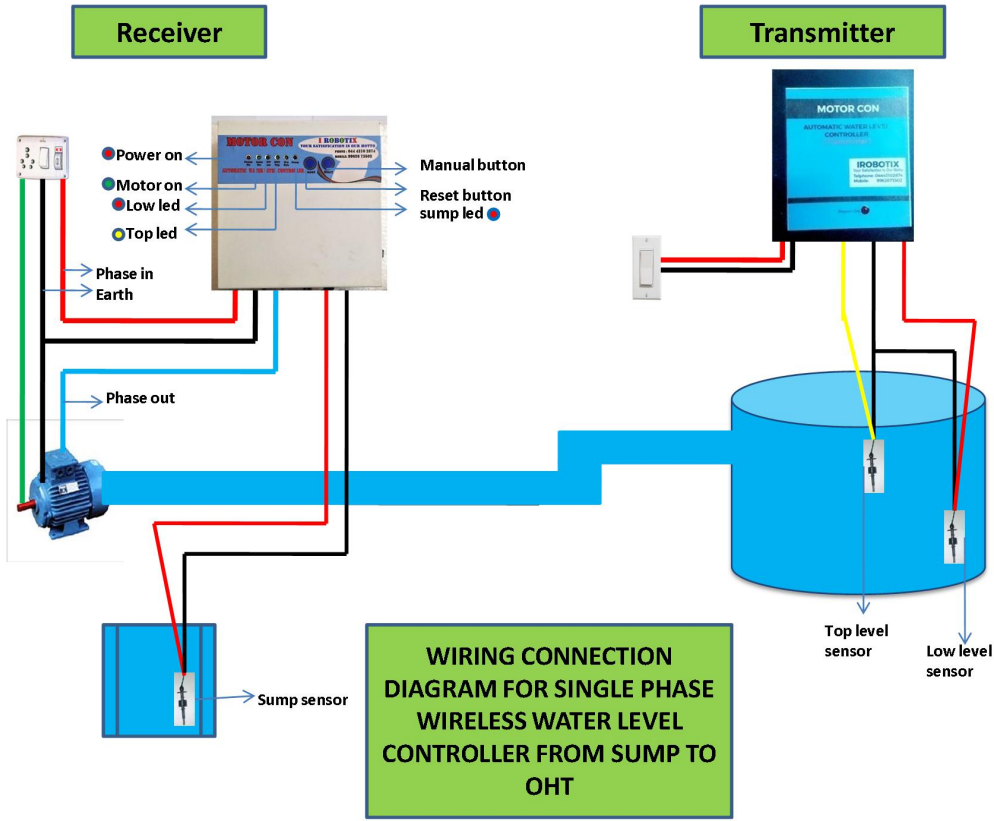


WORKING PRINCIPLE :

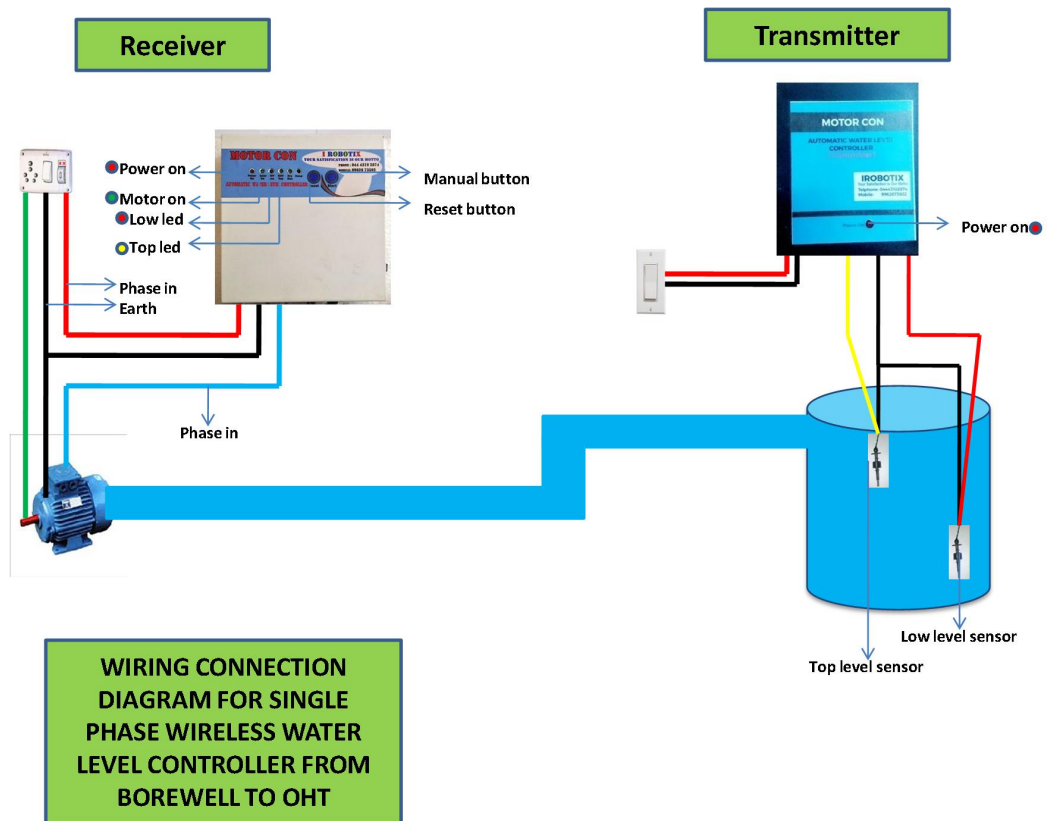
1. The switch can be mounted with the tank to provide water level sensing
2. The switch can be mounted at the mouth of the water pipe (the pipe that opens to the over head tank), it can be mounted at that place to act as dry run switch.



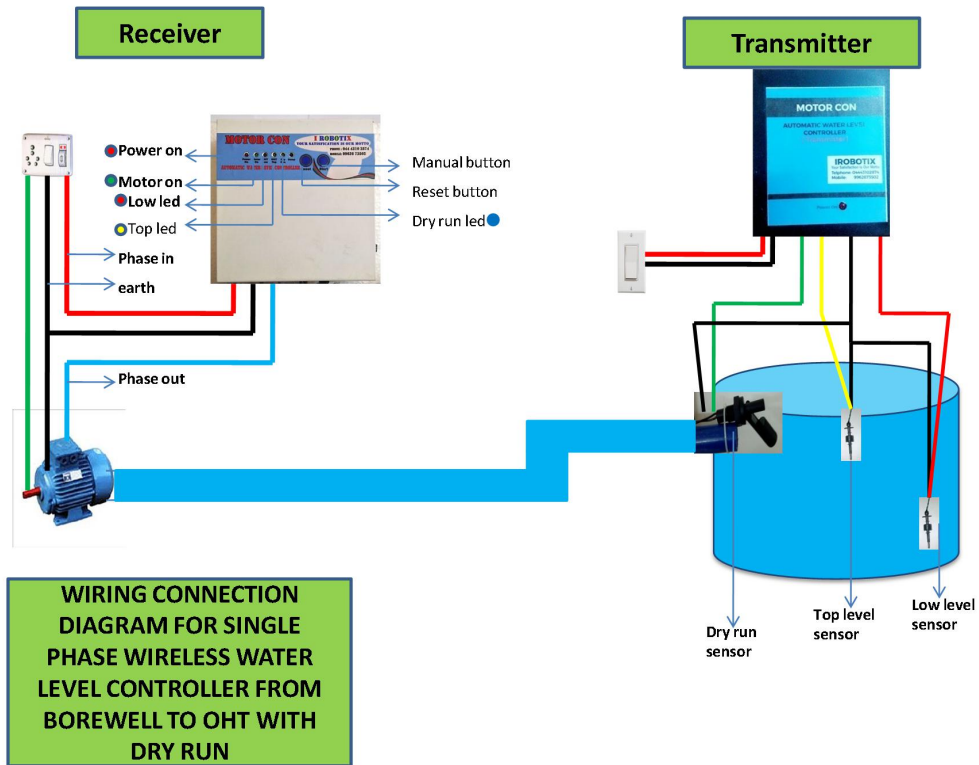
COMPLETE CONNECTION OF WATER LEVEL CONTROLLER [sump to oht with dry run] (single phase)



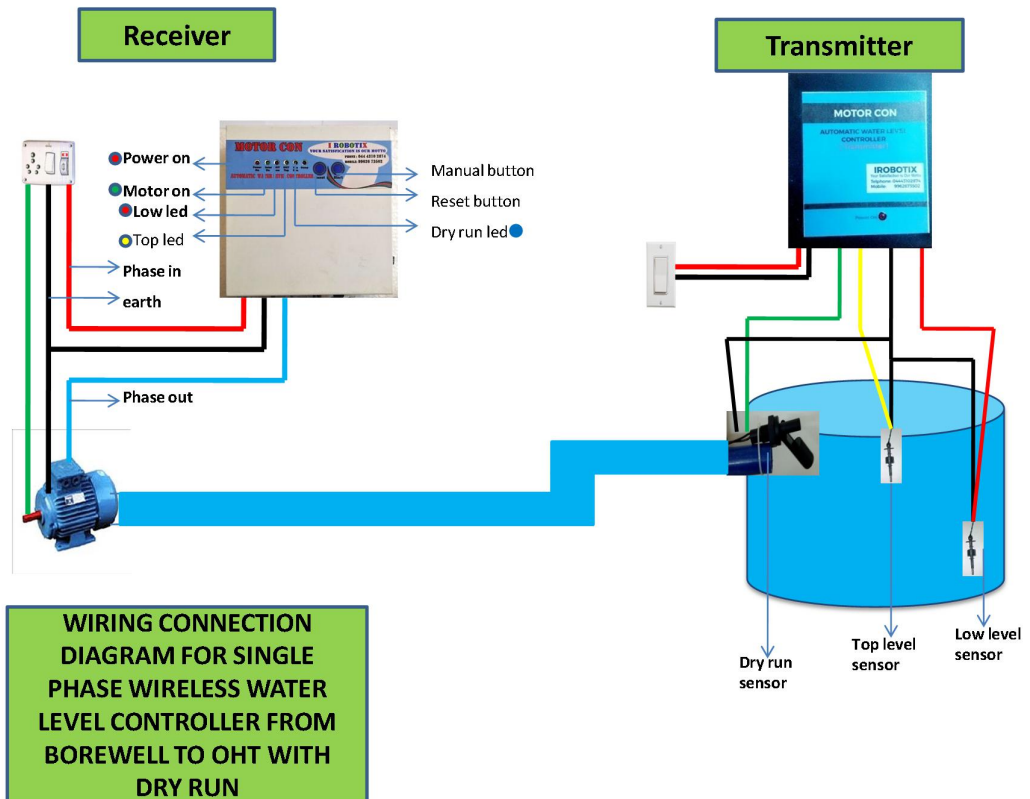
COMPLETE CONNECTION OF WATER LEVEL CONTROLLER : [Bore well To OHT with Dry Run] (single_phase)



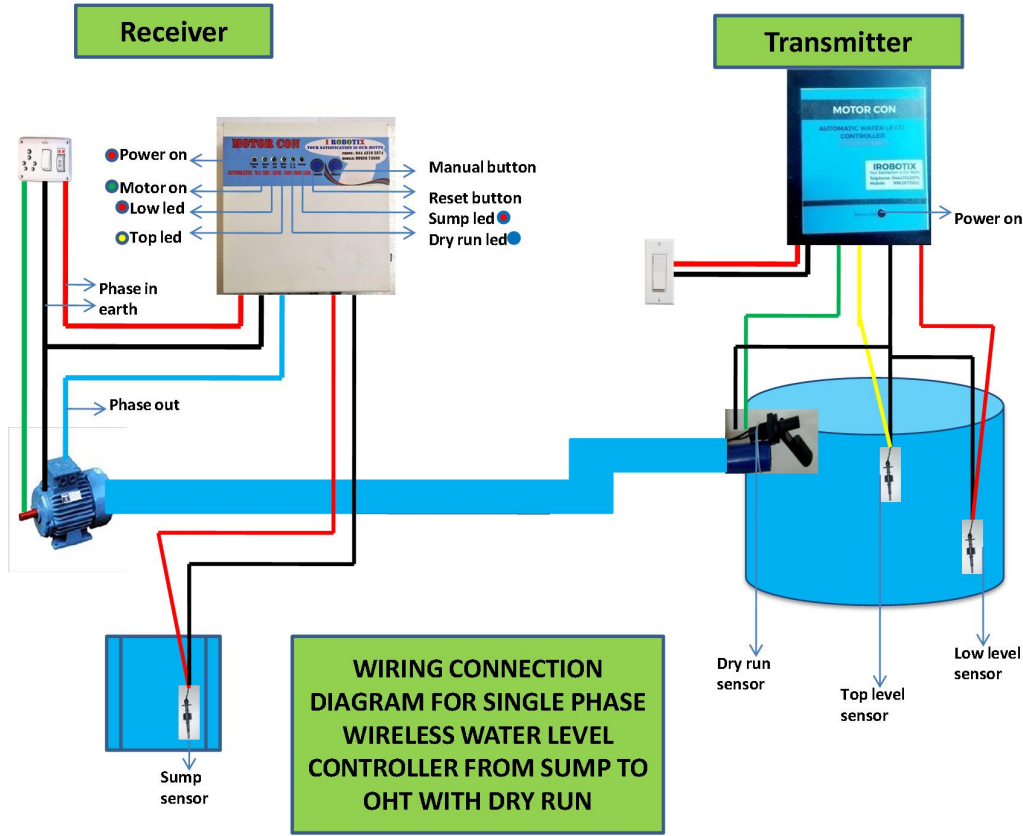
COMPLETE CONNECTION OF WATER LEVEL CONTROLLER [Bore well To OHT with Dry Run] (Three Phase)



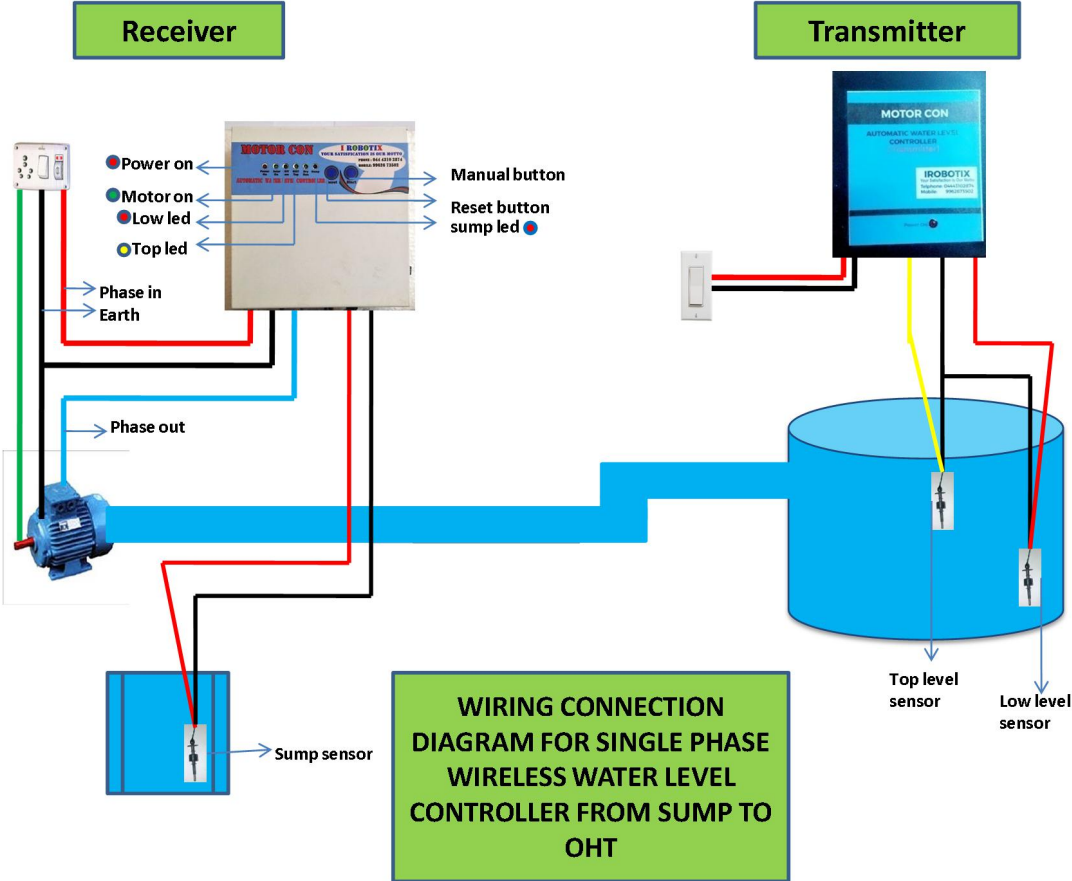
COMPLETE CONNECTION OF WATER LEVEL CONTROLLER : [Bore well To OHT with Dry Run] (single_phase)



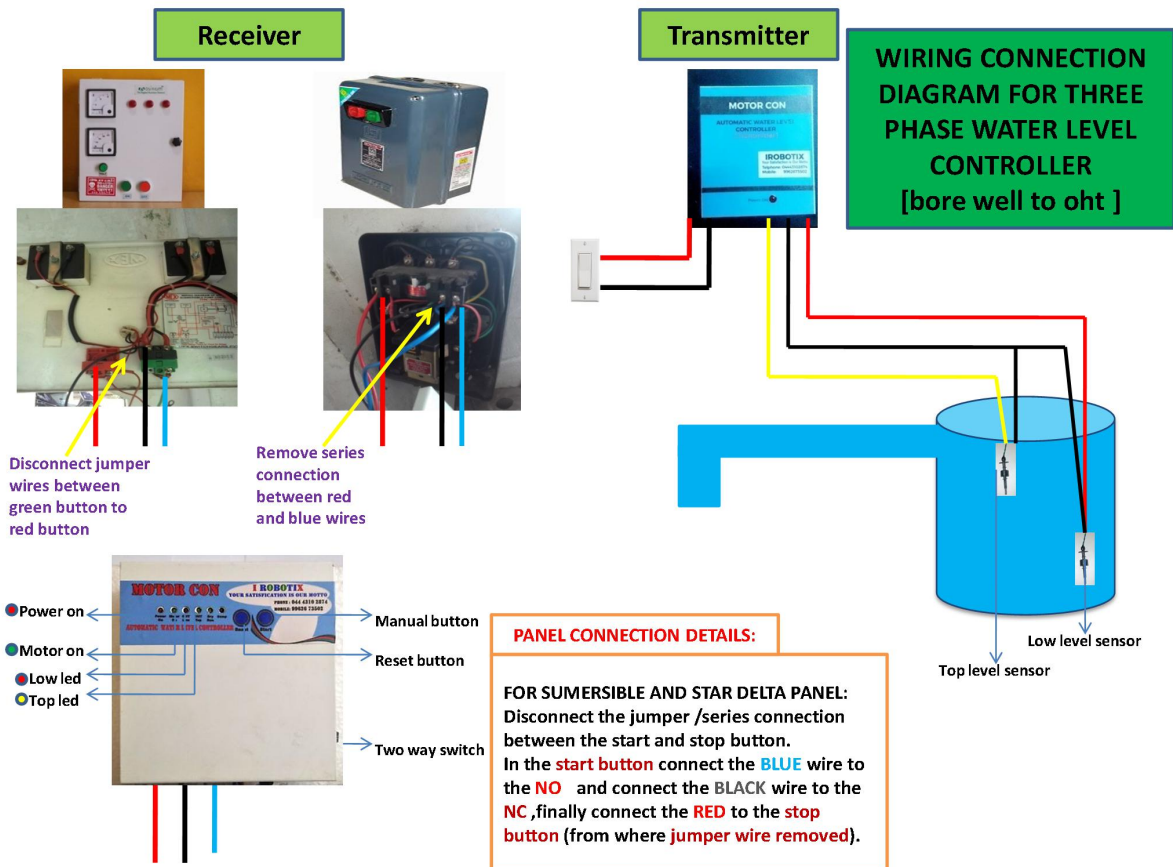
COMPLETE CONNECTION OF WATER LEVEL CONTROLLER [sump to oht with dry run] (single phase)



COMPLETE CONNECTION OF WATER LEVEL CONTROLLER [sump to oht] (Three Phase)



COMPLETE CONNECTION OF WATER LEVEL CONTROLLER : [Bore well To OHT] (Three Phase)



COMPLETE CONNECTION OF WATER LEVEL CONTROLLER [sump to oht with dry run] (Three Phase)

