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E. When the power Failure detected
41: POWER FAILURE DETECTED WHEN MOTOR WAS NOT RUNNING. ALERT WILL BE SENT WHEN POWER IS RESTORED
 Above message indicates that the power cut happened when motor was in OFF state. Message and call alert will be send after power is restored.

42: POWER FAIL. MOTOR RAN FOR HH:MM APPROX. RESTORE ALERT WILL BE UPDATED
 Above message indicates that the power cut happened when motor was running. Message and call alert will be send after power is restored.

F. When the Fuse Failure detected
101: FUSE FAILURE DETECTED AT THE TIME OF POWER RESTORE
103: FUSE FAILURE DETECTED. MOTOR RAN FOR HH:MM RESTORE ALERT WILL BE UPDATED
105: FUSE FAILURE DETECTED WHEN MOTOR WAS NOT RUNNING. ALERT WILL BE SENT WHEN POWER IS RESTORED
 (Above all messages will receive when Fuse failure happened)

G. When the Phase Failure detected
102: SINGLE PHASE FAILURE DETECTED AT THE TIME OF POWER RESTORE
104: SINGLE PHASE FAILURE DETECTED. MOTOR RAN FOR HH:MM RESTORE ALERT WILL BE UPDATED
106: SINGLE PHASE FAILURE DETECTED WHEN MOTOR WAS NOT RUNNING. ALERT WILL BE SENT WHEN POWER IS RESTORED
 (Above all messages will receive when Phase failure happened)

H: Possible Error SMS received :
62: WRONG PASSWORD
 (When the password entered is incorrect)
81: POWER FLUCTUATION OCCURRED, PLEASE WAIT FOR MOTOR STATUS
 (When the power fluctuation occurred)
84: COMMAND ERROR, PLEASE TRY AGAIN
 (When there is an error in the SMS format)
89: CURRENTLY DEVICE IS INACTIVE, CONTACT CUSTOMER CARE 1800 3000 9696
 (Automatic alert when device set to inactive mode)

IV : Warranty Rules
A) Special statement
 1. Technology change, without notice.
 2. If the color and appearance are inconsistent with those for the actual product, the latter will prevail
 3. Warranty card is only valid for the devices with the specified serial number
 4. Please take care of the warranty card and show it with the original purchase receipts when enjoying the warranty

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service.
B) Warranty period
 Back to bench warranty for 1 year from the date of purchase. During this warranty period if you face any complaint with the device, please give a missed call to **1800-3000-9696**.
 Our representative will collect the complaint to ensure faster resolution. Alternatively email can be sent to support@agromate.in.

C) After sales
 Any of the following circumstances not covered by the warranty, but may be appropriate to pay for repair:

- After warranty period
- Unauthorized removal or repair damaged.
- Damage caused by improper installation, use, maintenance, custody.
- Repairs during warranty period shall be carried on "Carry In" basis. Wherein for service the purchaser shall bring the product to the Service Centre with whom the set is registered for warranty service. The warranty does not cover cost of transportation of system from place of installation to the Service Centre
- Warranty certificate and product models do not match or warranty certificate be altered.
- Warranty does not cover defects caused by the fact that short-circuited or Physical damage or by the fact that the device has been used in equipment other than motor for which it has been specified.

V : Customer's Information

Name: _____

Tel: _____

Address: _____

Product Model: _____

Serial Number : _____

Date of Purchase : _____

Dealer Details : _____



Feel safe with Agromate and protect your motor.

Thank you for purchasing the product. Keep this manual handy for reference including warranty claim

GSM Mobile Motor Controller

India's largest



www.agromate.in

**For support and Installation Help
 Please Call
 +91 93473 46290**



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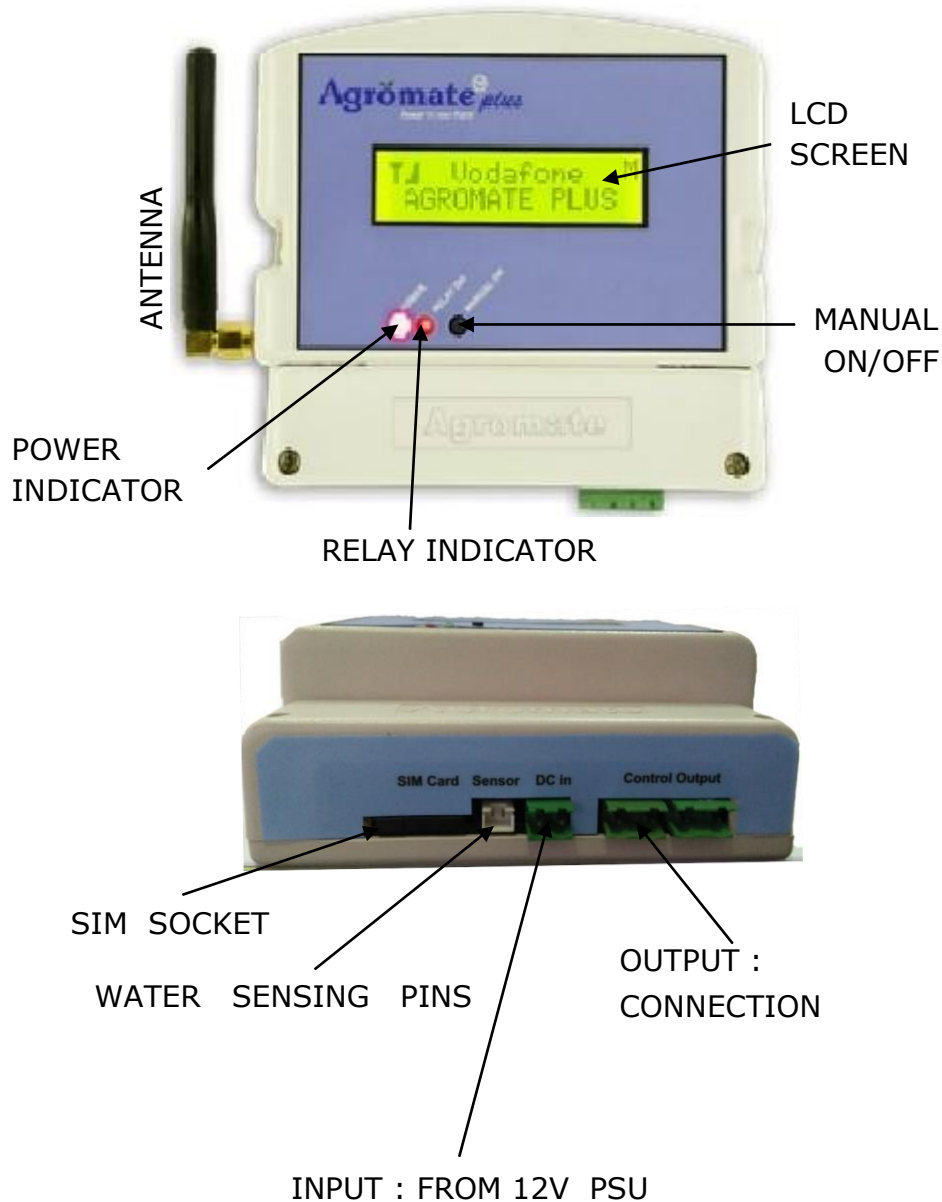


Figure 1

I: Water Sensor :-

By default device is in water sensor disabled State. To enable or Disable water sensor Send SMS in the following format -

WS ON - For Enabled

WS OFF - For Disabled

Possible Responses:

68: WATER SENSOR ENABLED

(When the device water sensor enabled successfully)

69: WATER SENSOR DISABLED

(When the device water sensor disabled successfully)

J. Set Dry run Delay Time

There are two possible settings for the dry run check. Device can be configured to wait for 120 seconds or 240 seconds to wait before motor is turned OFF in case of dry run. Default device in 120 Seconds. Send SMS in the following format to set the delay time to 120 seconds.

TD S —Time duration Short (120 Se.)

TD L — Time duration Length (240 Se.)

Possible Responses:

55: DRY RUN CHECK SET TO 120 SECONDS

(When the dry run check timer is set to 120seconds)

56: DRY RUN CHECK SET TO 240 SECONDS

(When the dry run check timer is set to 240 seconds)

K. CALL ALERT

To enable or disable call alerts. when the power is restored

DND ON — CALL ALERT DISABLED

DND OFF — CALL ALERT ENABLED

Possible Responses:

65: CALL ALERT DISABLED

(When the call alert disabled successfully)

66: CALL ALERT ENABLED

(When the call alert Enabled successfully)

L: Admin copy message

If message copy require to admin for every operations done by user Send SMS in the following format:

ADM ON - To enable Admin Message

ADM OFF - To disable Admin Message

Possible Responses:

71: ADMIN INTIMATION ENABLED

(When the device Admin copy message enabled successfully)

72: ADMIN INTIMATION DISABLED

(When the device Admin copy message disabled successfully)

M: Set Run Duration

To run motor by specific time By sending message like below

MDUR < 1 to 720>

Possible Responses:

09: MOTOR ON DURATION IS SET TO AAA MIN

(Device set as per Duration)

90: PLEASE ENTER MOTOR ON MINUTES

IN BETWEEN 1 AND 720

(if duration Maximum 720 Minuets)

M: RESET

Admin can reset the device to delete all stored data in Device By sending "RESET" commend to the device Mobile Number.

III : Other Automated SMS Alerts

A. When Dry Run is Detected

07: MOTOR RAN FOR HH:MM APPROX.

DUE TO DRY RUN MOTOR IS OFF

(This informs the user about the Motor off due to insufficiency of water supply)

B. When SIM card is changed

08: ALERT:SIM CARD HAS BEEN

CHANGED

(When we replace SIM card with out dong RESET admin receives SIM change alert)

C. When the power is restored and device is in INTELLIGENT mode:-

Last operated user will get a call that will disconnect after 3 rings and also receive one of the following messages.

31: POWER IS RESTORED, DEVICE IS IN INTELLIGENT MODE. NOW MOTOR IS OFF AS PER PREVIOUS STATUS

the motor was in OFF status. When the power cut happened and the device is configured to operate in INTELLIGENT mode. So, the device will not turn ON the motor after the power is restored and motor will continue to be in OFF status.

32: POWER IS RESTORED, DEVICE IS IN INTELLIGENT MODE AND MOTOR IS ON AS PER PREVIOUS STATUS

Above message indicates that the motor was in ON status. when the power failure occurred and the device is configured to operate in Intelligent mode. So, the device will turn ON the motor as

per previous status continue to be in ON mode after the power is restored.

D. When the power is restored and device is in Auto mode.

Last operated user will get a call that will be disconnected after 3 rings and also receive the following message.

33: POWER IS RESTORED, DEVICE IS IN AUTO MODE. NOW MOTOR IS ON.

Above message indicates that the device is configured to operate in Automatic mode, so the device will turn ON the motor after the power is restored irrespective of motor's previous status at the time of power cut.

D. Change Password

Registered user can change the password by sending SMS in the following format:-

" PSW <EXISTING PSW> <NEW PSW> <CONFIRM NEW PSW>"

<EXISTING PSW> : Existing password. In case of first time password change, the default existing password is 1111.

<NEW PSW> : New password that you want to change should consist of 4 to 8 digit number.

<CONFIRM NEW PSW> : Enter the same new password again for confirmation.

FOR E.g. **PSW 1111 23456 23456**

Possible Responses:

58: PASSWORD HAS BEEN CHANGED SUCCESSFULLY

(When the password changed successfully)

83: WRONG PASSWORD. MAXIMUM LENGTH IS 8 CHARACTERS

(When the new password does not match with the limit)

E. Add User

Additional users can be registered through SMS only and can only be registered from the Admin mobile phone. Admin has to send SMS the following format.

REG <10-DIGIT Ph. No. (user number) > <max 8-digit Password>

Password should be 4 to 8 digit number. Default password is 1111. Follow password change instructions to change the password.

Type **REG XXXXXXXXXXXX 1111** and send it to the device SIM number. You will get an acknowledgement from the device SIM.

Possible Responses:

52: SUCCESSFULLY REGISTERED

(When the device registered to user mobile , user and admin both receives above message)

Message will be sent to Admin and new user also

61: NUMBER OF USERS EXCEEDED

(Number of registered users are four per device. You will get this message when this limit is exceeded.)

60: MOBILE NUMBER ALREADY REGISTERED

(Mobile number is already registered in the device)

After registration user can able to operate the device.

F. Delete User

Any registered user can delete another user's mobile number by sending SMS in the following format.

DEL <Mobile number> <password>

<Mobile number> : Mobile number that needs to be deleted from the device.

<password> : Password of the device

FOR E.g. - DEL XXXXXXXXXXXX 1111

Possible Responses:

59: SUCCESSFULLY DELETED THE ENTRY

(When the mobile number is successfully deleted)

63: THERE ARE NO REGISTERED NUMBERS TO DELETE

(When the mobile number which you tried to delete is not existing in the device.)

G. List Users

Registered user can get the SMS with the list of mobile numbers already registered in the device by sending SMS in the following format.

"USERS

Possible Responses:

57: USERS (list)

(it shows all registered mobile numbers in device)

H. Set Operating Mode

By default device is in **Intelligent mode**. When device is in intelligent mode and the power is restored after a power failure, motor follows the previous state. That is, if the motor was in running state when the power went off the motor will start automatically when the power is restored thus following the previous state.

Similarly if the motor was OFF at the time of power failure the motor will continue to be in OFF position even after the power is restored. When the power is restored, last used user will get a call and also SMS stating the status of the motor, so that user can take necessary action.

When the device is set to **Auto mode**, the motor will turn ON automatically when the power comes back irrespective of its previous state. This mode works similar to automatic switch

When the device is set to **Idle mode**, the motor will remain in OFF status irrespective of its previous state. The user can change the mode with following SMSs.

MODE I — For INTELLIGENT mode

MODE A — For AUTO mode

MODE L — For IDEAL mode

Possible Responses:

53: DEVICE SET TO INTELLIGENT MODE

(When the device is set to INTELLIGENT mode successfully)

54: DEVICE SET TO AUTO MODE

(When the device is set to Auto mode successfully)

70: DEVICE IS SET TO IDLE MODE

(When the device is set to Idle mode successfully)

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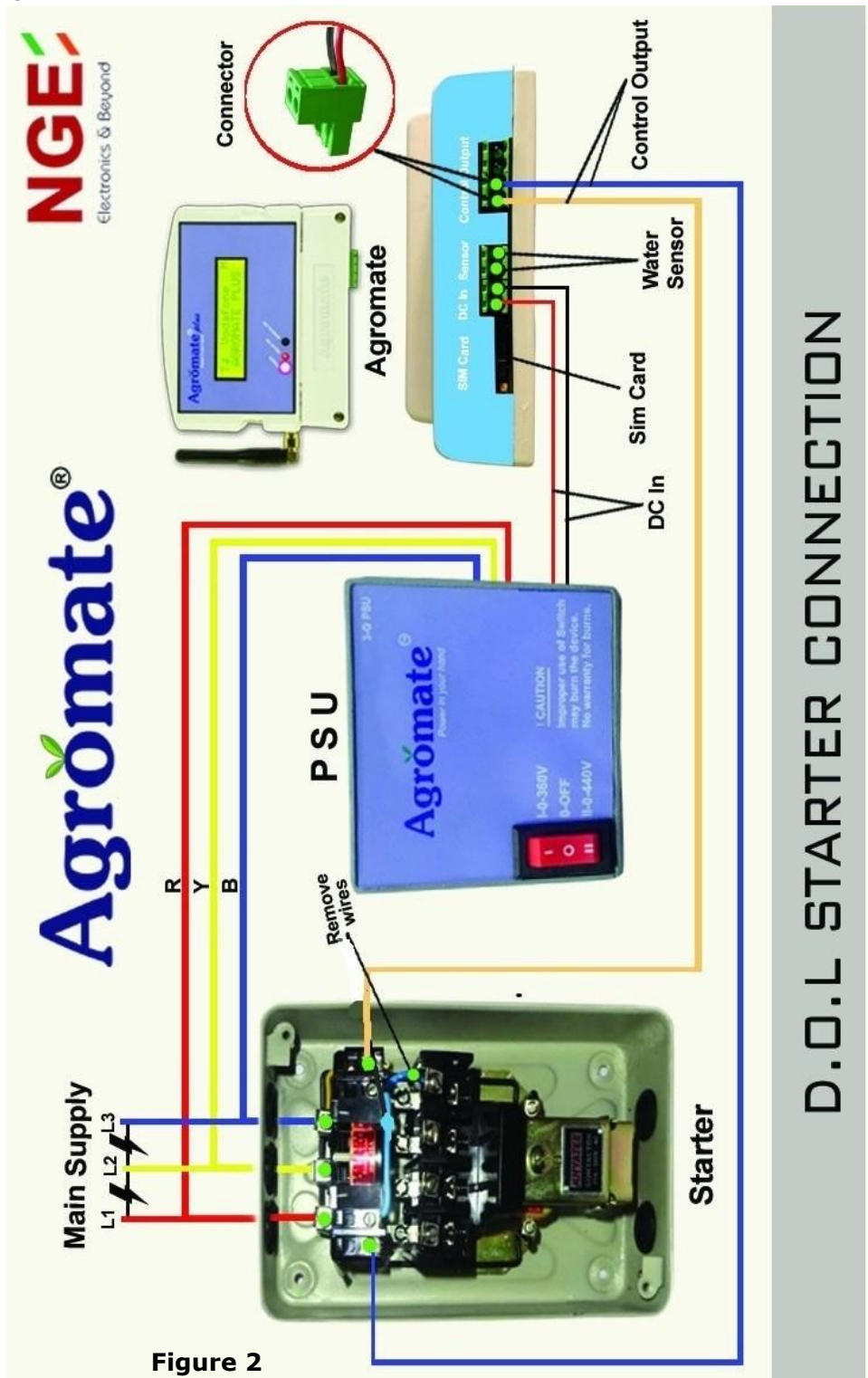


Figure 2

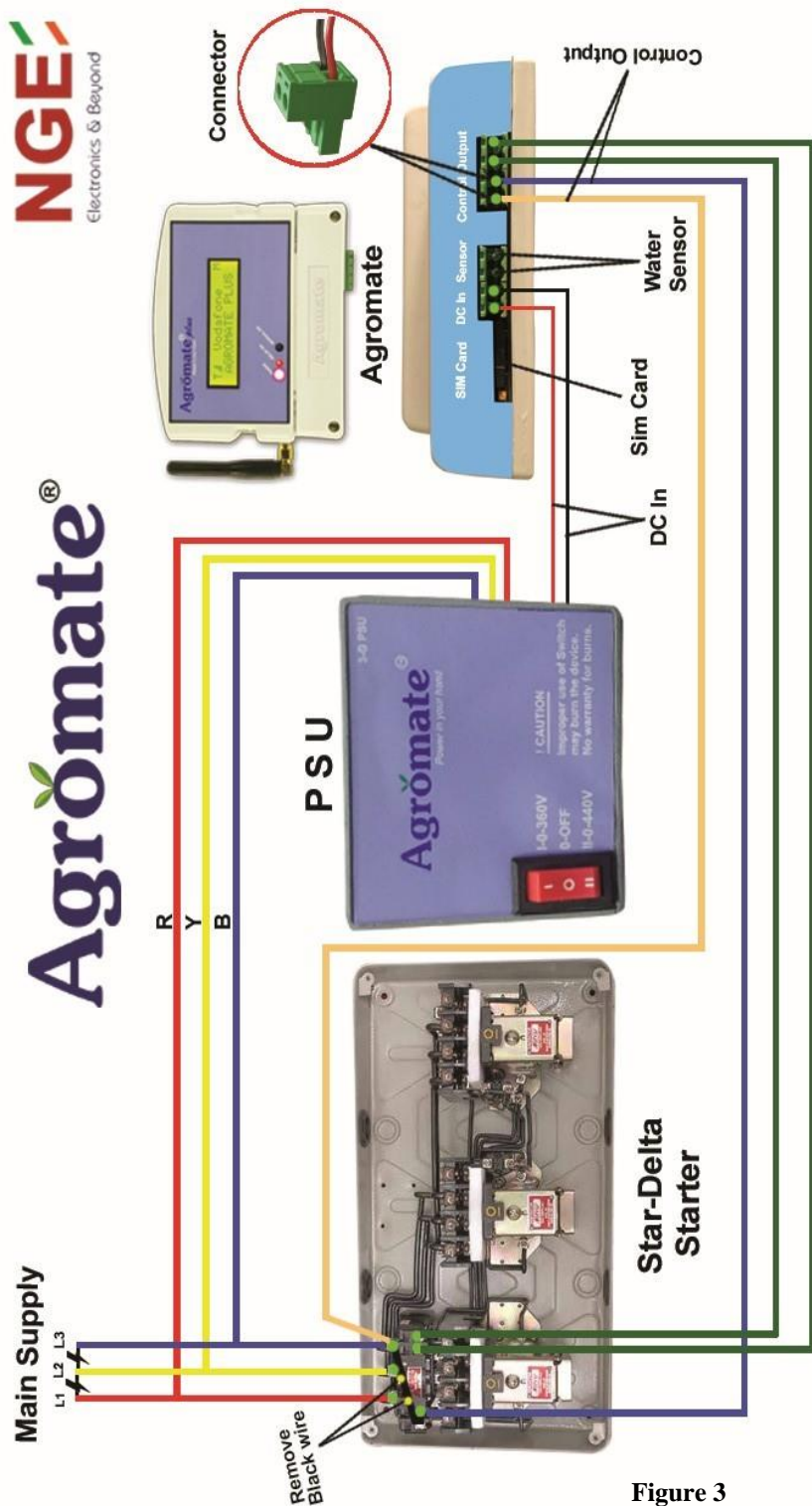


Figure 3

STAR-DELTA STARTER CONNECTION

Features Of Agrömate

- Miss call or SMS to operate
- SMS alerts for motor ON
- SMS alerts for motor OFF and duration of run time
- SMS and also a call from device to alert when Power restored
- SMS alerts during power failure
- Register up-to 4 users per device
- SMS alerts when SIM Changed
- Manual ON/OFF Feature
- Android APP for easier usage and scheduling the motor run times

I : Installation Steps

- After completion of installation As shown Fig 2 & 3 (DOL & Star-Delta Starters) or if require any help in installation give miss call to **1800 300 9696**
- Place the SIM card in the SIM SOCKET as shown in the Fig-1.
- Check whether the +VE of 12V PSU cable (Red) to the left Pin and -VE cable (Black) to the right pin of the connector and Insert the connector in DC IN (Power LED glows) of the device.
- Check the connection of Output pins to the starter as per installation instructions
- Wires from water sensing pins can be connected to water flow to enable water sensing. If no water sensing is required the water sensing pins can be looped using a wire.
- Switch on the power supply It takes few seconds for booting. After booting signals will display on LCD.
- LCD Display shows network signal strength, operator name, device model and motor status.
- After Displaying "Please Register" text on LCD Display. Make a call to device SIM number to register your mobile.
- By using Manual button one can also switch on or Switch off the motor.
- Relay LED gives the status of the motor i.e. if the motor is **ON**, it glows and "**M**" will appear in LED Display.

II : Operating Instructions:-

1. Admin Registration:

To operate this device the administrator mobile should be registered with the device. There can be maximum 4 users (1 admin and 3 additional users) . Among those, first accessed become the admin to the device. Admin's mobile can be registered through **miscall** only (please wait until call gets disconnected).

Possible Responses:

52: SUCCESSFULLY REGISTERED

(When your mobile is successful registered to the device) After registration user can operate the device.

2. Device Operation:

The device can be operated with four methods.

- (a) Miscall method (b) SMS method
(c) Manual method (d) Android method_

(a) Operate through miscall method
In this Mode user can only perform **Switch ON/Switch OFF** by giving a miscall to the device number.

Possible Responses:

01: MOTOR IS SUCCESSFULLY TURNED ON

(When the motor is successfully turned ON)

02: MOTOR WAS ON FOR HH:MM APPROX. NOW IT IS OFF

(When the motor is successfully turned OFF)

(b) Operate through SMS method

By sending **SMS** to device phone number user can do the following operations.

- Switch ON
- Switch OFF
- Get Motor Status
- Change Password
- Add User
- Delete User
- List Users
- Set Operating Mode
- Water Sensor
- Set Dry run Delay Time
- CALL ALERT
- Admin copy Message
- Set Run Duration
- RESET

NOTE: All SMSs are case sensitive.

A. Switch ON the motor

Send SMS in the follow format.

" MOTOR ON "

Possible Responses:

01: MOTOR IS SUCCESSFULLY TURNED ON

(When the motor is successfully turned ON)

03: MOTOR IS ALREADY ON

(When the motor is already in ON position)

B. Switch OFF the motor

Send SMS in the following format.

" MOTOR OFF "

Possible Responses:

02: MOTOR WAS ON FOR HH:MM APPROX. NOW IT IS OFF

(When the motor is successfully turned OFF)

04: MOTOR IS ALREADY OFF

(When the motor is already in OFF position)

C. Get Motor Status

Send SMS in the following format.

" MOTOR STATUS "

Possible Responses:

05: MOTOR IS ON FOR HH:MM APPROX.

(It gives information about the runtime of the motor in hours and minutes)

06: MOTOR IS CURRENTLY OFF

(When the motor is in OFF state)