User Manual - "TTMA3R3P" Mobile Auto Switch

1. TTMA3R3P Feature and Specifications

➢ Motor control and status monitor using App and call.

➢ We can operate by voice call trough IVR menu can be use keypad mobile.

➢ Its work on single phase, two phase and three phase also.

➢ Phase fault protection when one phase absent, phase voltage unbalance, phase reverse.

➢ Motor on and off time can be schedule on repetition mode.
➢ Support up to 40 HP motor.
➢ Protection against overload and dry run condition.
➢ Easy to connect with DOL, Semi and Fully automatic starters.
➢ Work with any SIM except JIO.
➢ Call back/SMS on motor on manually.
➢ Call back/SMS on any fault.
➢ Call back/SMS on power on.
➢ 6 users can be operate this device by application.
➢ Users can operate this device from everywhere in this world.
➢ Easy installation.
➢ It's save your time and money for on/off motor in field.
➢ It's protect your motor from any phase, current and voltage fault.

Do not remove
identification code

TTMA3R3P1267
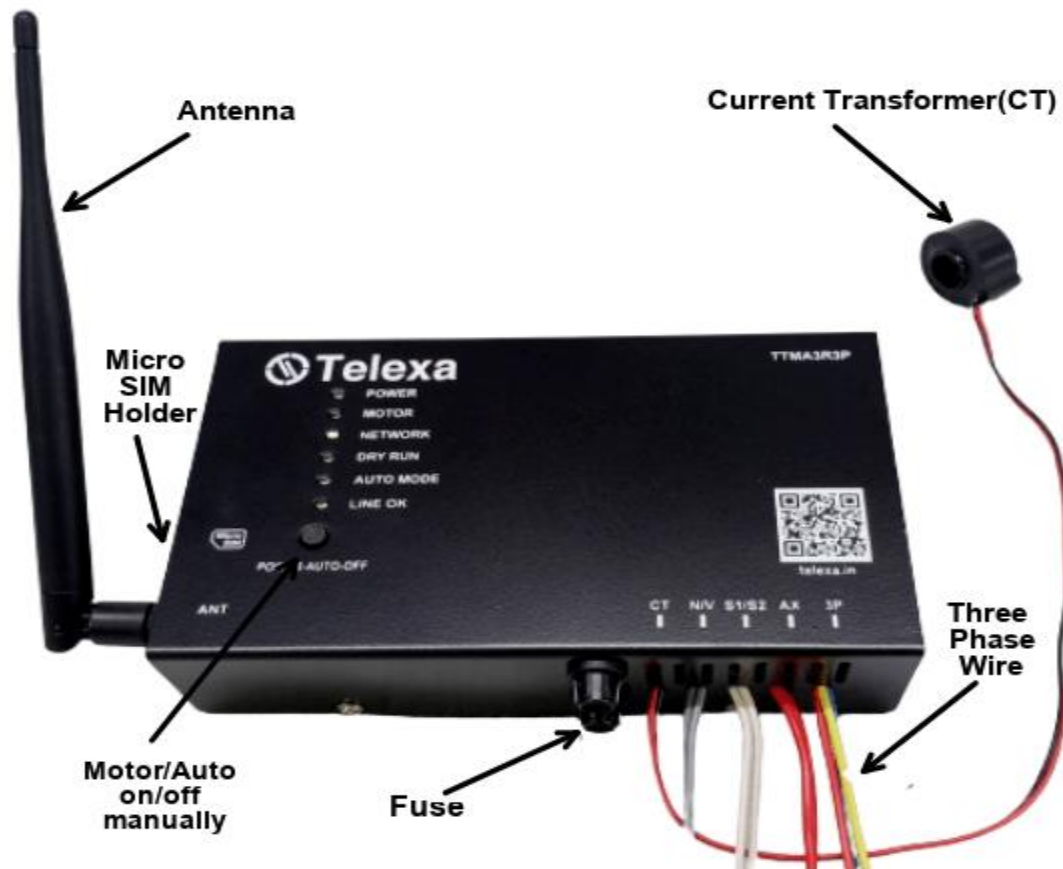
Micro SIM Holder

Antenna Connector

Power on/off switch

Manual

Auto

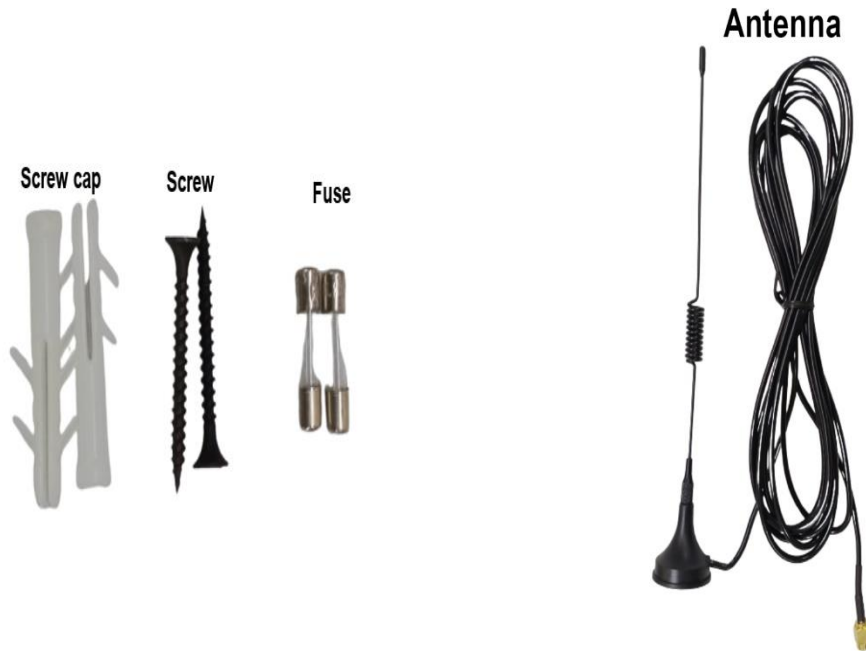**Mounting Hole**

2. Device Unboxing

1) TTMA3R3P (GSM motor Controller)
2) Antenna
3) User Manual
4) 2 Screw and 2 Screw Cap
5) 2 Extra Fuse

Antenna

Screw cap   Screw   Fuse

Box- Inside

3. Installation

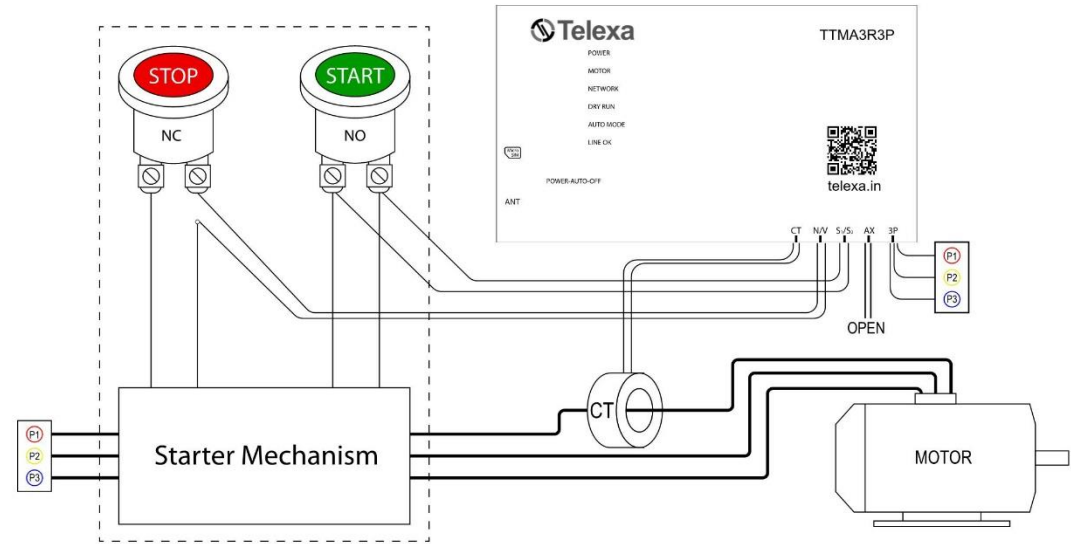Install device in Dry Place and protect from direct Dust, Water and Sunlight etc.

1) Mount Device with your Motor Starter using two Screws along with device that size of 7.5x30mm. Also make sure device don't touch to ground.
2) In this device you have to Micro SIM. Insert SIM on left side in SIM card holder properly and push slowly then it will locked and for remove SIM card again push it and remove.
3) Connect antenna with device there is left side antenna connecter and place the antenna where that get maximum single strength.
4) Ensure that SIM card has proper Validity, Balance and network at site and has also SMS balance for getting information.

4. Electrical connection

This device work with single phase, two phase and three phase. Also we can connect with all type of starter like DOL, Star Delta Starter and Panel starter.

A. Common wire connection for all type of starter.

1. There are 7 wire for three phase or 9 wire for single phase coming with Mobile auto controller.
2. Connect 3P three wire with R, Y and B of input terminal of your electrical DOL/Star Delta Starter.
3. Connect white wire S1/S2 to starter right side as shown in image across the push button.
4. Connect gray wire N/v to starter bottom right side and top left side as shown in image.
5. Current Transformer (CT) – One main Motor phase cable pass through CT for sense current.

3 Phase Power

Telexa
TTMA3R3P
POWER
MOTOR
NETWORK
DRY RUN
AUTO MODE
LINE OK

POWER-AUTO-OFF

ANT

telexa.in

CT N/V S₂/S₁ AX 3P

Open

CT

MOTOR

STOP
NC

START
NO

Telexa
TTMA3R3P
POWER
MOTOR
NETWORK
DRY RUN
AUTO MODE
LINE OK

POWER-AUTO-OFF

ANT

telexa.in

CT N/V S₂/S₁ AX 3P

OPEN

P1
P2
P3

P1
P2
P3

Starter Mechanism

CT

MOTOR

5. SIM Setting

When device connection completed with starter and motor after that power on that device. It has 1 on/ off switch back side. When power on device a network white LED Blink 3 sec it means device SIM has network.

1) SIM card has network then we can call device for motor start.
2) We can Call and also operate device trough Telexa App.
3) We can save 6 Mobile no. in our device by Telexa App and SMS send "#MNO*0*User Mobile No." Ex. #MNO*0*9583556225
4) We can operate device trough Call (IVR Manu), Sending SMS and Telexa App.

S.N	Command	Description
1.	#MNO*user No*mob. No Ex #MNO*0*8962307685	Save Mobile NO. Don't add 0 or +91 before no.
2.	#MOTOR*1*	Motor ON
3.	#MOTOR*0*	Motor OFF
4.	#STATUS*	Get Current Status
5.	#AUTO*0* #AUTO*1*	Auto Mode off Auto Mode ON
6.	#SCH*Schedule NO*Start Time*End Time state Ex #SCH*0*1235*12501	Save Schedule. Schedule Time Should be 24H format. The start time is always less than end time. Last digit shows the state of schedule either active or deactivate.
7.	#DRY*0* #DRY*1*	Dry mode off Dry Mode On
8.	#SCHSTATUS*	Get Saved Schedule and their status
9.	#INFO*	Get Saved user List
10.	#DETAILS*	Get IMEI no Of device (Not For User)
11.	#LOAD*min current*max current* Ex. #LOAD*04*07*	Save current for dry run in 3 phase condition Minimum current and max current digit bust be 2

12.	#STARTER*type*	Save starter type
		Type: 0 for 3 phase starter
		        1 for single phase or 2 phase starter
		        2 without starter
		        3 panel starter

13.	#TIME*Reley1 Time*X-relay Time* Ex: #TIME*01*03*	Set time for relay switching. // 7s Timing should be 2 digit. Relay1 timing for Semiautomatic 3 Phase starter.

		Relay2 timing for Starting capacitor in 1 phase mode or run switch in start delta starter
14.	#CALL_SMS*0* #CALL_SMS*1* #CALL_SMS*2*	Call Mode Alert Select SMS mode Alert Select Disable All Alert.
15.	#LOCK*0* #LOCK*1*	Lock Enabled Lock Disabled
16.	#ATIMER*Time in 3 digit* #ATIMER*009*	Auto timer time // 40s Set Time delay b/w Phase ok and Motor auto run.
17.	#RESET*	Reset To Factory Setting
18.	#2PLOAD*min*max*	Save current for dry run in 2 phase condition
Dry run 30s test		

6. Operation

Auto Mode

We can select this mode by call, SMS and also App. For on auto mode send SMS "#AUTO*1* and for off send SMS "#AUTO*0*. For on auto mode by call press 2 and for off press 3. In this mode motor will start automatically on when power on. You can start and stop motor by mobile also. We can set this mode by push pull switch on device press 2 time that switch if blue led on that means auto mode on.

Manual Mode

We can on & off Motor any time by call, SMS and also App. For on motor send SMS "#MOTOR*1* and for off send SMS "#MOTOR*0*. For on Motor by call press 1 and for off press 3. We can on and off motor by push pull switch on device press 1 time that switch if green led on that means motor is on.

7. Protection Setting

1) Dry run setting - turn off motor if motor is not drawing water. For set dry run from call, SMS and APP. Send SMS #DRY*1*.
2) Overload Setting - If motor consuming more current then motor will off. For this setting send SMS "#LOAD*min current*maxi current*"
3) If we want no other person control our device so we can lock it by send SMS "#LOCK*1*" this command lock your device and for unlock send SMS "#LOCK*0*"

8. Technical Specifications TTMA3R3P

Sr. No.	Specifications	Parameter
1	Protection design	Microcontroller based current sensing
2	Supply voltage	240VAC- 440VAC±5% 50Hz
3	Output relay contact-S1	1-CO 7A/240VAC
4	Output relay contact-S2	1-CO 7A/240VAC
5	Output relay contact-S3	1-CO 20A/240VAC
6	GSM network	SIM(2G,3G)
7	Interactive Voice response(IVR)	Yes
8	IVR language	As per customer's choice
9	No. of users can register	6
10	Pump current setting scale	2Amp-100Amp by CT
11	**Protection setting** Input phase failure Input reverse phase Voltage and current unbalance Overload setting range Overload default value Dry run setting range Dry run default value	 30%-100% 20% of set current Off 30%-100% 20% of set current

12	**Timers**	
	Power on timer setting range	3sec-300sec
	Power on timer default value	60sec±3sec
	Star delta timer setting range	3sec-30sec
	Star delta timer default value	10sec±2sec
	Dry run timer setting range	3sec-30sec
	Dry run timer default value	20sec±3sec
	Overload timer setting range	3sec-30sec
	Overload timer default value	10sec±2sec
	3 Schedule timer	Between 24 hour

9. Telexa Auto

1) Download Telexa App –

Amazon   **Play Store**

2) First Install app and allow send and view SMS messages.
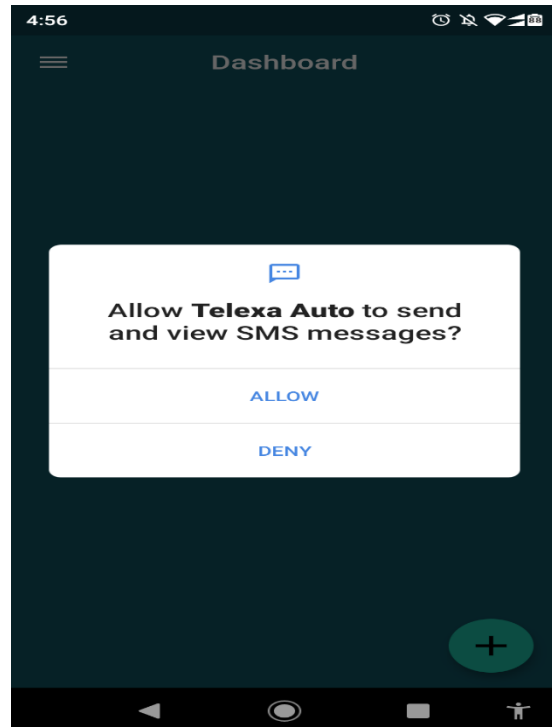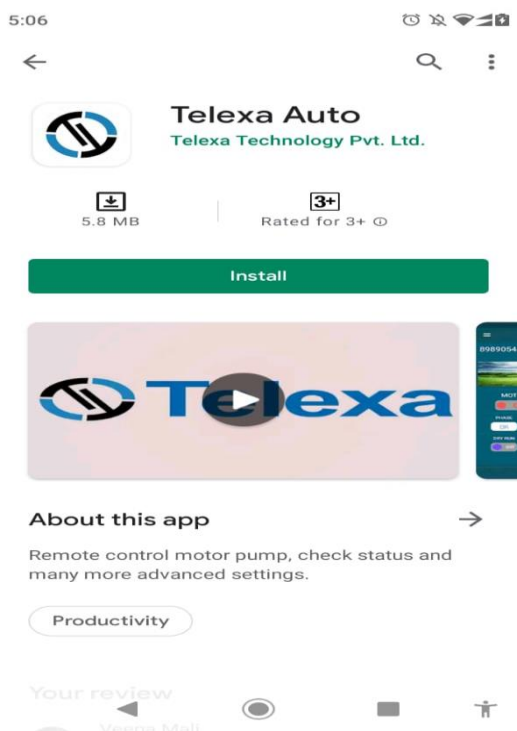
3) Open App and add device –Click on + sign. Enter Device SIM card No. and field name as you want to mention.
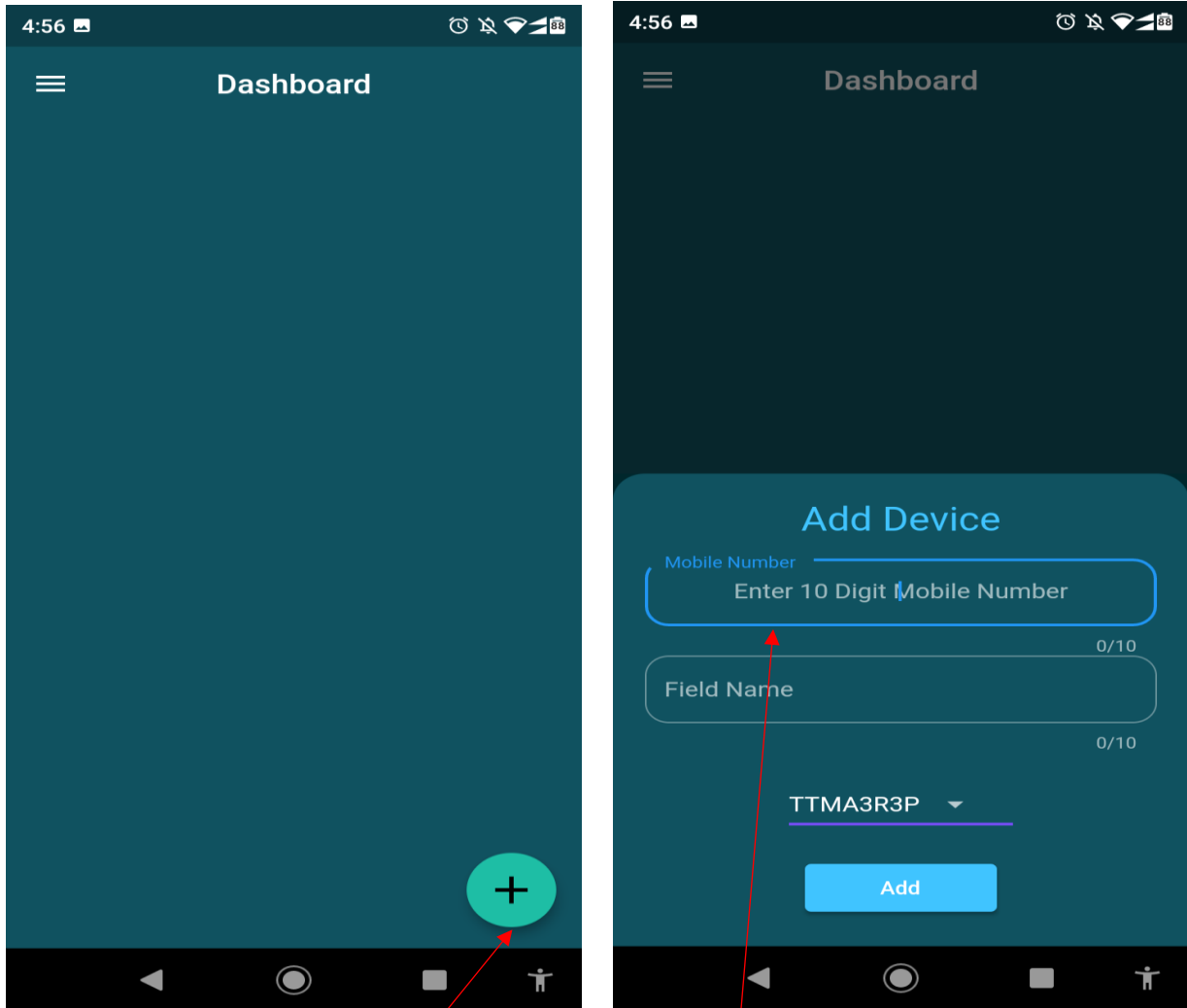
**Click On and add Device**   **Enter Device Mobile No.**

4) Click On right side setting icon in app shown first option add User. Add Mobile No. 1 Master No. and other No. if you want to save.
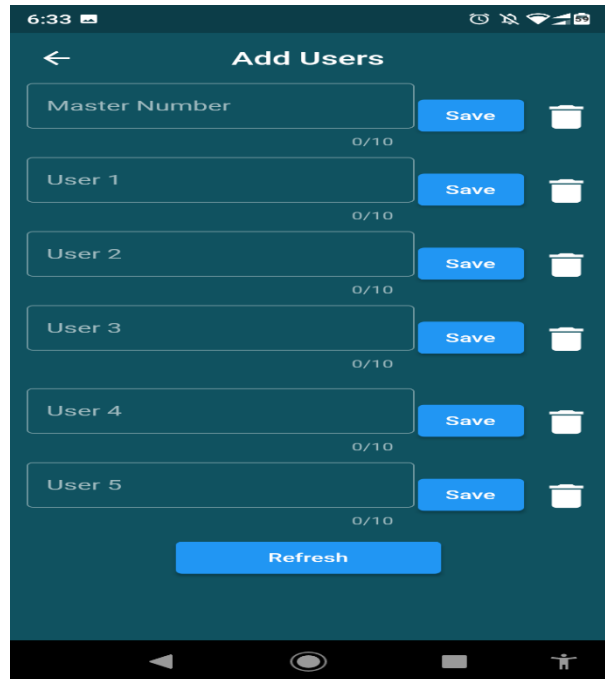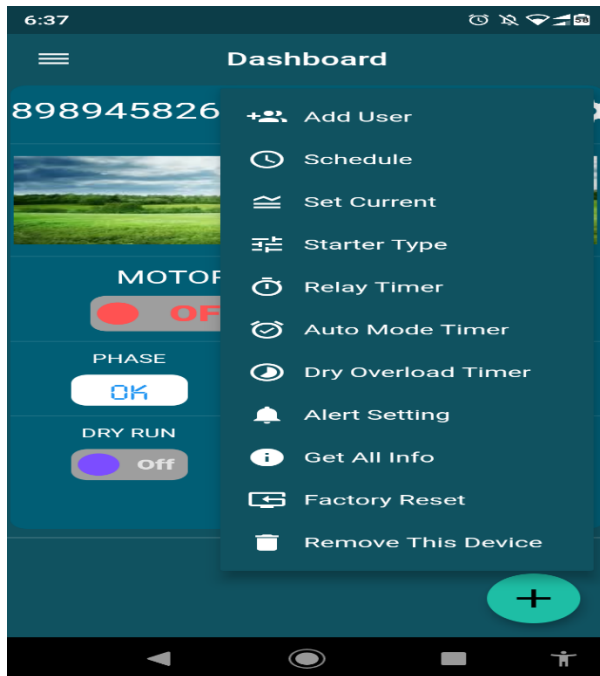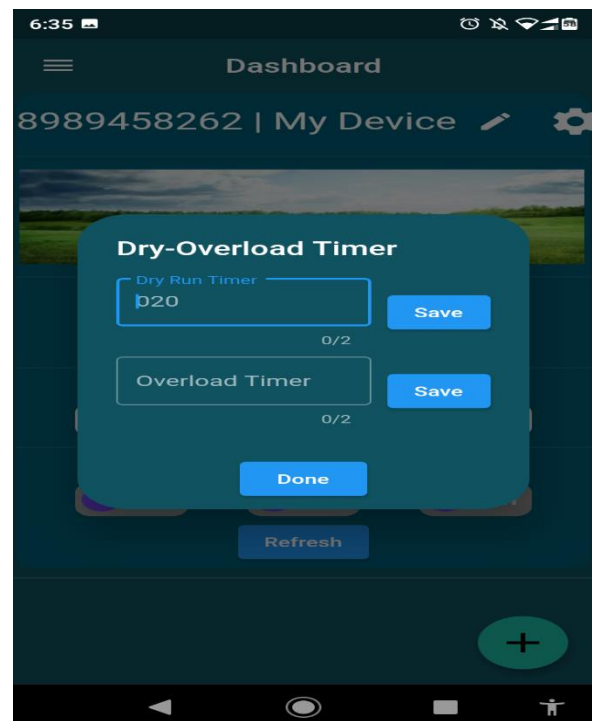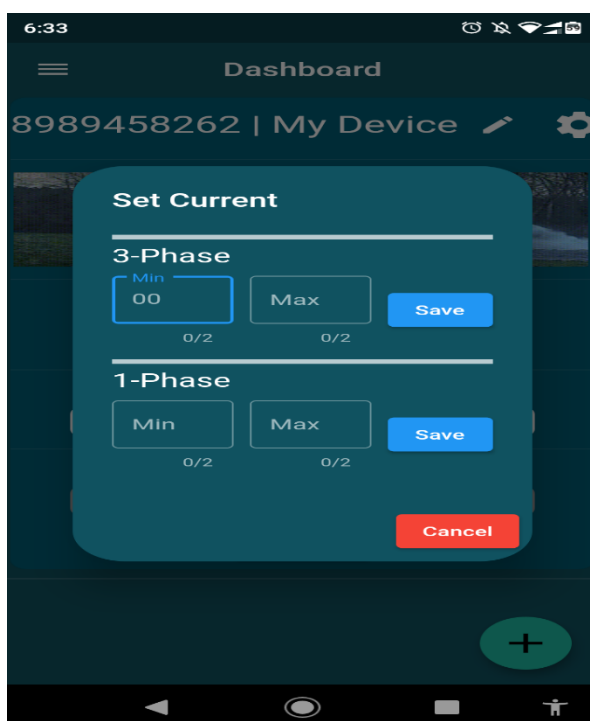
5) After add No. you can on/off Motor, Auto Mode, Dry run, Overload, Lock etc. You can also see Phase and Current status.
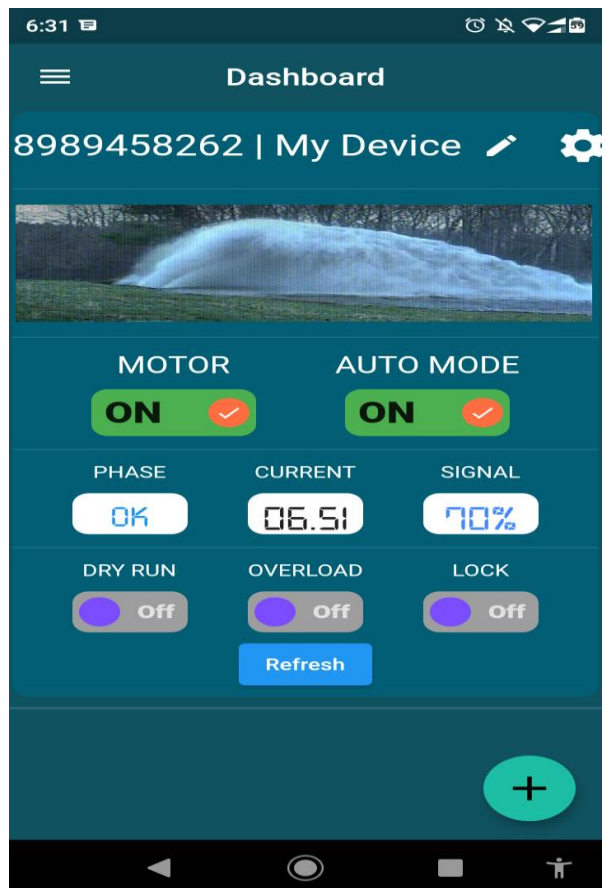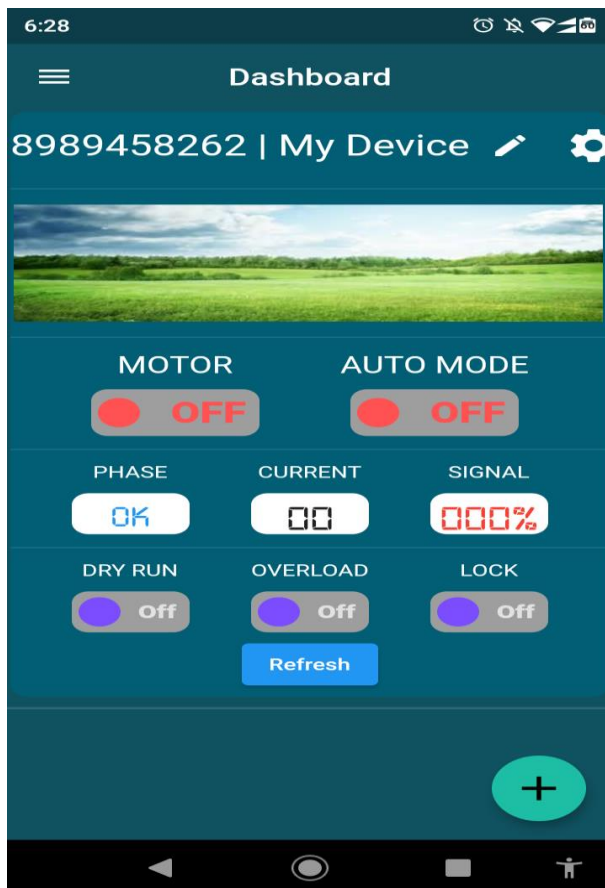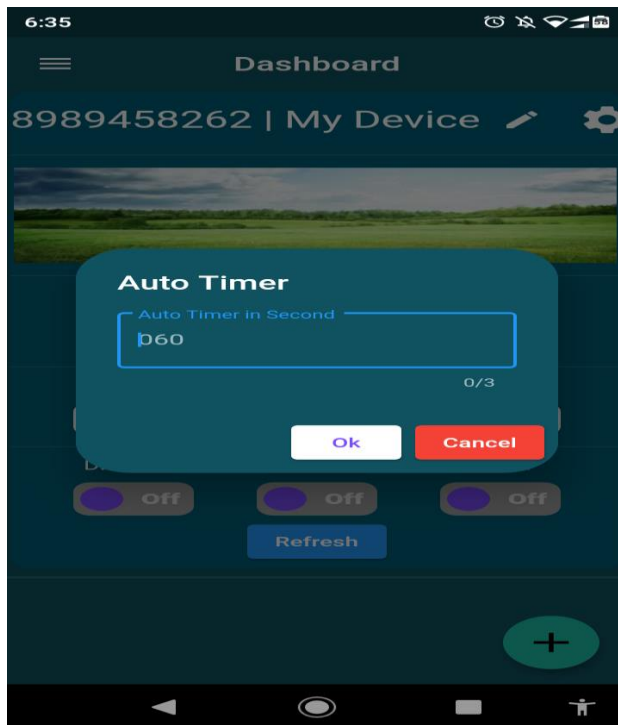
6) You can select Starter Type and relay Time For high HP Motor. Click on right Side setting icon.
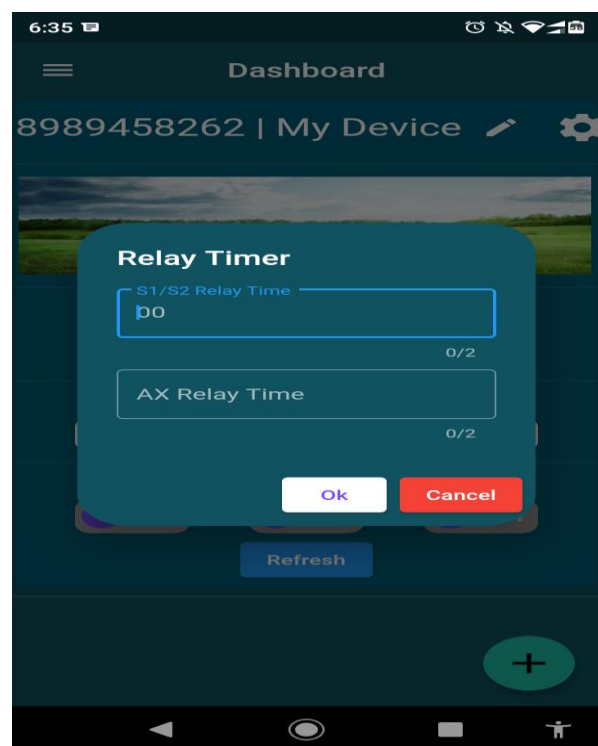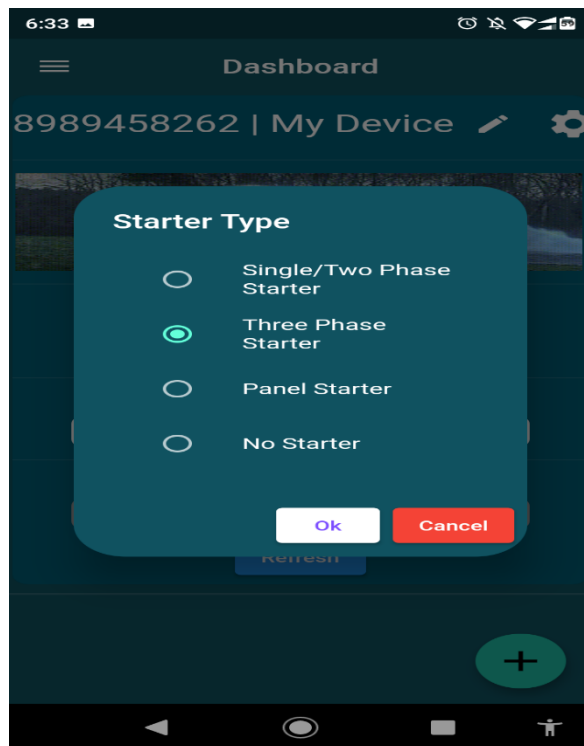
7) You can set maximum and minimum current as per your Motor and set dry run and overload time.

8) We can select automatically motor start time after power on and also we can schedule 3 time with in 24 hour for start Motor.

9) We can select how we want to get information by call or SMS. And also get help through us.
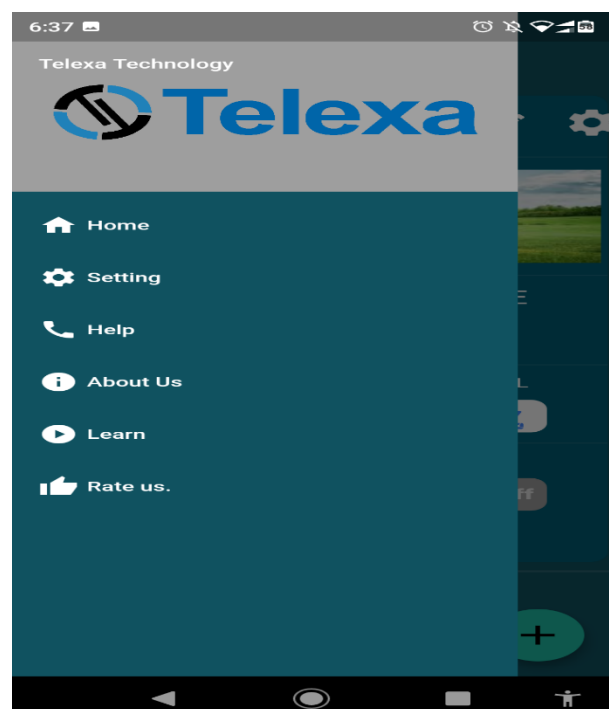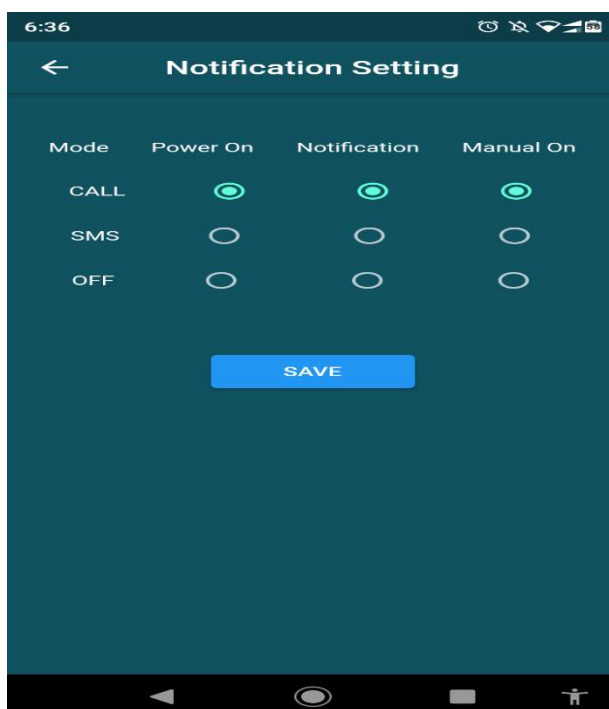
10. Operate Device trough IVR for keypad Mobile (by Call).

1) Press 1 to start the motor.
2) Press 2 to turn on auto mode
3) Press 3 to turn off motor and auto mode.
4) Press 4 to know the present status.
5) Press 5 to Set Motor Current.
6) Press 6 to bypass dry run.
7) Press 7 to inbuilt dry run.
8) Press 8 to bypass overload.
9) Press 9 to inbuilt overload.
10) Press 0 to replay.