

**Congratulations!!** We thank you for purchasing GSM DOL. This user manual will help you guide step-by-step installation, operation and programming procedure. Please go through all instructions carefully prior to implementing.

### 1. Installation

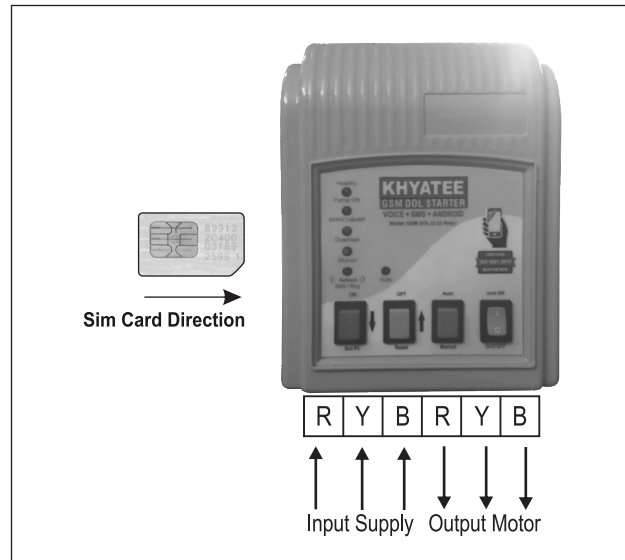
Install properly in dry place and protect from direct dust, water and sun light etc.

- 1) Mount the unit in your starter panel using two screws of 7.5x20 mm size.
- 2) Insert the SIM card in SIM card holder and push slowly so it will get locked and to remove also push slowly and pull with two fingers to take it out.
- 3) Connect / Place antenna such that you get maximum signal strength.
- 4) Ensure that SIM card is with proper Validity, Balance, and Network Signals at site and please put SMS pack in the card, so that the transaction will be economical.

#### Note:

1. Kindly use SIM card which works on 2G (except Jio) any service provider and which has good network at site.
2. Kindly keep some balance and charge with SMS pack

### 2. Electrical Connections



### 3. Pump Current Setting

Pump current setting is compulsory for accurate protection of your Pump set. There are three way to do pump current setting.

Note: First time unit may do pump current setting automatically when pump set is connected & Switched ON.

**From unit:** Press ON switch up to 5-sec, all LEDs will blink once. Unit will measure actual pump current and set it and all LEDs will blink once.

**From phone call:** Make a phone call to unit and press 1111, unit will switch on the pump and all LEDs will blink once. Unit will measure actual pump current and set it and all LEDs will blink once.

### 4. Protection Parameter Settings

The unit provides protection to the pump set which can be set by sending SMS to unit. Micro controller monitors the phase current continuously and calculates the protection on real time basis. LED will keep blinking in trip time delay zone and continuously ON in trip zone. Unit protects the pump from electrical parameters as per SMS Chart.

### 5. Add and delete Registered User No.

Make phone call to unit from mobile phone whose no you want to add... Once call is lifted by unit press \*\*\*\*. Unit will add and save mobile no. & Phone call will be disconnected. To delete make phone call and press ##### to delete the number. (Maximum 4 users can be added)

### 6. Change Existing Password

The unit is protected against unauthorized operation by 4 digit password. '5678' is the factory set default password. Please change password for your safety & make a note of it.

To change password make a phone call to the unit press 4-digit password and then press 5555 to change and create new password.

**USER MANUAL FOR GSM DOL (2-22 AMPS) FOR 0.5 TO 7.5 HP MOTORS**

**7. Operation**

**Auto mode (Recommended mode)**

You can select this mode by calling the unit and pressing 4444. In auto mode, motor will start automatically on phase return or power return.. You can start or stop motor from mobile phone also.

**Manual mode**

You can select this mode by calling the unit and pressing 6666. Power ON timer will not be available to auto start the motor you have to start manually. You can start & stop motor from mobile phone also.

**8. MOBILE PHONE KEY FUNCTIONS**

SR NO	MOBILE DIAL PAD KEYS	ACTION
1	1111	Pump current Setting
2	2222	Callback ON / OFF
3	3333	Password ON / OFF
4	4444	Auto Mode ON
5	5555	Change Existing Password
6	6666	Manual Mode ON
7	7	Pump ON
8	8	Verbal Voltage and Current information
9	9	Pump OFF
10	0	Present Status
11	*	Fault Reset
12	****	Make Call and Press **** to ADD Phone Number as Authorized User
13	####	Make Call and Press #### to DELETE Authorized User Phone Number

**SMS list 1.** XXXX: - 4-digit password for mobile starter 2. \*(Star):- Starting code 3. # (Hash):- Ending code 4. Add 8 to 15 digit Mobile number only (do not add zero at start) **Following SMS should be sent to SIM number of mobile starter**

**9. ON/OFF/AUTO/RESET ETC**

SR NO	ACTION	SMS	REMARK
1	Pump On	*5678ON#	
2	Pump Off	*5678OFF#	
3	Real Time Status	*5678RTS#	
4	Auto Mode On	*5678AM#	
5	Manual mode On	*5678MM#	
6	Fault Reset	*5678RST#	
7	Add User No	*5678A+91xxxxxxxxx#	xxxxxxxx is 10 Digit Mobile No.
8	Existing User list	*5678L#	
9	Delete Existing user no	*5678D+91xxxxxxxxx#	

**10. PROTECTION SETTINGS**

SR NO	ACTION	SMS	REMARK / RANGE
1	Parameter Setting Details	*5678PSD#	
2	Overload Trip Current	*56783PHOL20.0#	2 Amp – 22 Amp
3	Dry run Trip Current	*56783PHDR10.0#	2 Amp – 22 Amp
4	3 Phase Over load and dry run trip current	*56783PHOL10.0DR09.0#	2 Amp – 22 Amp
5	Set Overload percentage	*5678OL40#	10 % - 50 %
6	Set Dry run percentage	*5678DRY75#	60 % - 95 %
7	Dryrun Bypass	*5678DRY0#	
8	Protection On	*5678PON#	
9	Protection Off	*5678POFF#	All protection bypass except SPP

**11. TIMER SETTINGS**

SR NO	ACTION	SMS	REMARK / RANGE
1	Power On Timer	*5678POT60#	3 – 300 Seconds
2	Dry run Auto-start timer	*5678DAT120#	5 – 720 Minutes
3	Dry run Auto-start timer OFF	*5678DAT000#	
4	Motor On timer(One time)	*5678ON10#	5 – 720 Minutes
5	Repeat run timer ON	*5678RRT120#	5 – 999 Minutes
6	Repeat run timer OFF	*5678RRT0#	

**12. PASSWORD / SMS / CALL BACK / MISS CALL ETC**

SR NO	ACTION	SMS	REMARK
1	Password Protection On	*5678PPA#	
2	Password Protection Off	*5678PPD#	
3	Change Password	*5678NPxxx#	xxxx 4 digit password
4	Miscall On	*5678MCA#	
5	Miscall Off	*5678MCD#	
6	SMS On	*5678SMSA#	
7	SMS Off	*5678SMSD#	
8	Call back for all condition	*5678CBA#	On all fault conditions, power return & motor on-off
9	Call back for fault only	*5678CBF#	
10	Call back only for power return	*5678CBP#	
11	Call back off	*5678CBD#	