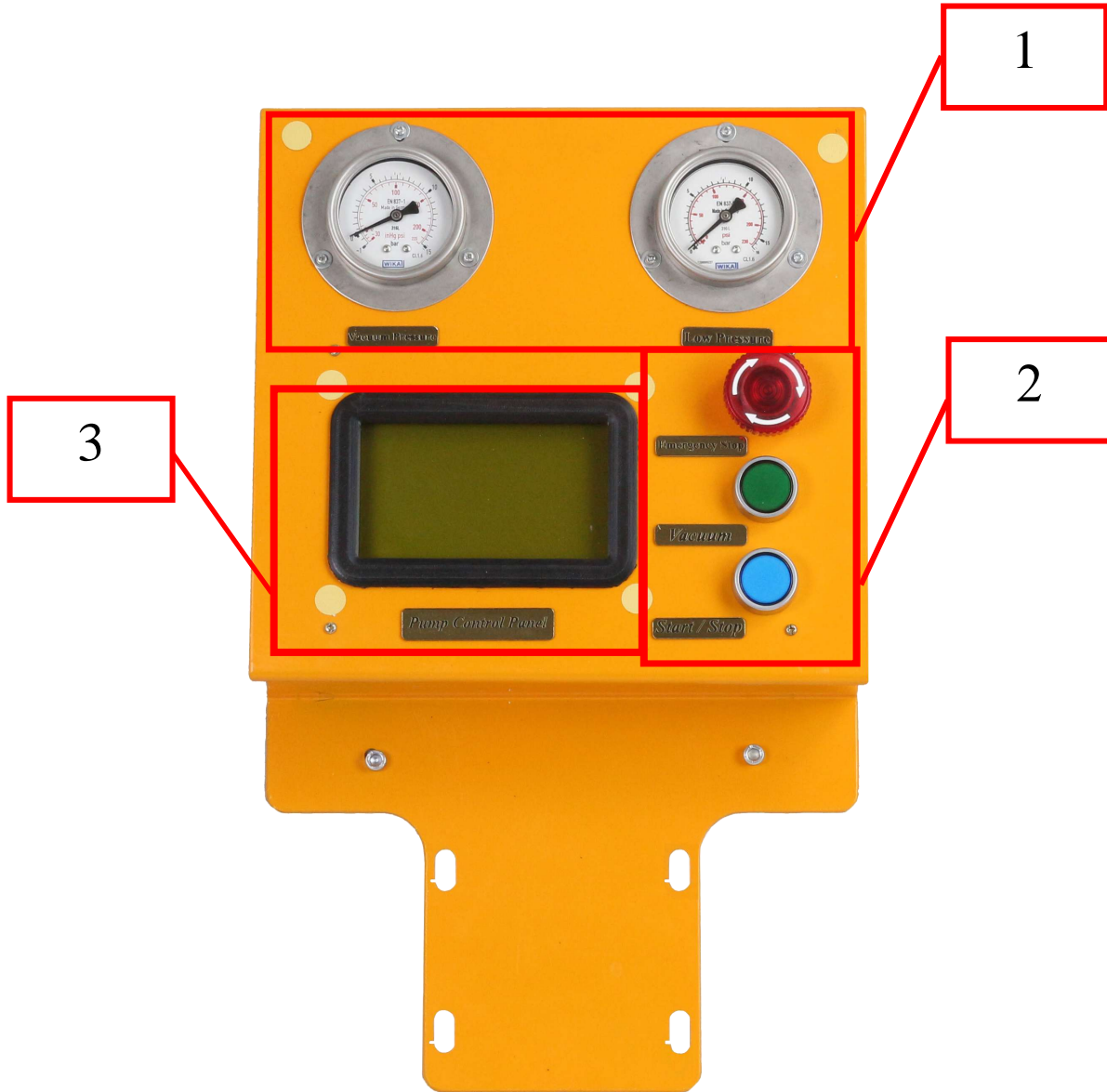# User Guide for Smart Control Panel that will install on 1500 lt Pumps.

1)Manometers: In this section, there are 2 manometers to show the Pressure of the pump in 2 stages. The first one shows low pressure, the second shows vacuum pressure.

The range of this manometers are as follow:

- Low pressure: 0~25 Bar
- Vacuum pressure: -1~15 Bar

2) Electric switches: In this section, there are 3 switches, and a light.

All components are describing at below:

- **Emergency Stop**: It will use to turn on the LCD and whole switches and use to turn them off.

- **Alarm**: This **Red** light in Emergency Stop switch will be lit up at start and will lit up and off to show the warnings in system in 2 conditions that are describing at below:
  - When water tank level is less than 20%
  - When the rotational speed is more than 4000 rpm.

- **Vacuum:** By pushing this key, the vacuum mode of the pump will start and you can use it to vacuum water. If the pressure reaches 1 bar, it will automatically cut off the Prime.

- **Start/Stop**: It will use to turn on the LCD and whole switches and use to turn them off.

- ❖ Electric connector: Whole wires to connect the panel with sensors and battery are here to use.
  Note: For more details of wiring please check the wiring file for each panel(1500,2000 or 3000 lit/min panels.)

❖ Memory Card: It is used to save all parameters in it for doing better aftersales services. It is located backside of LCD shown as bellow.

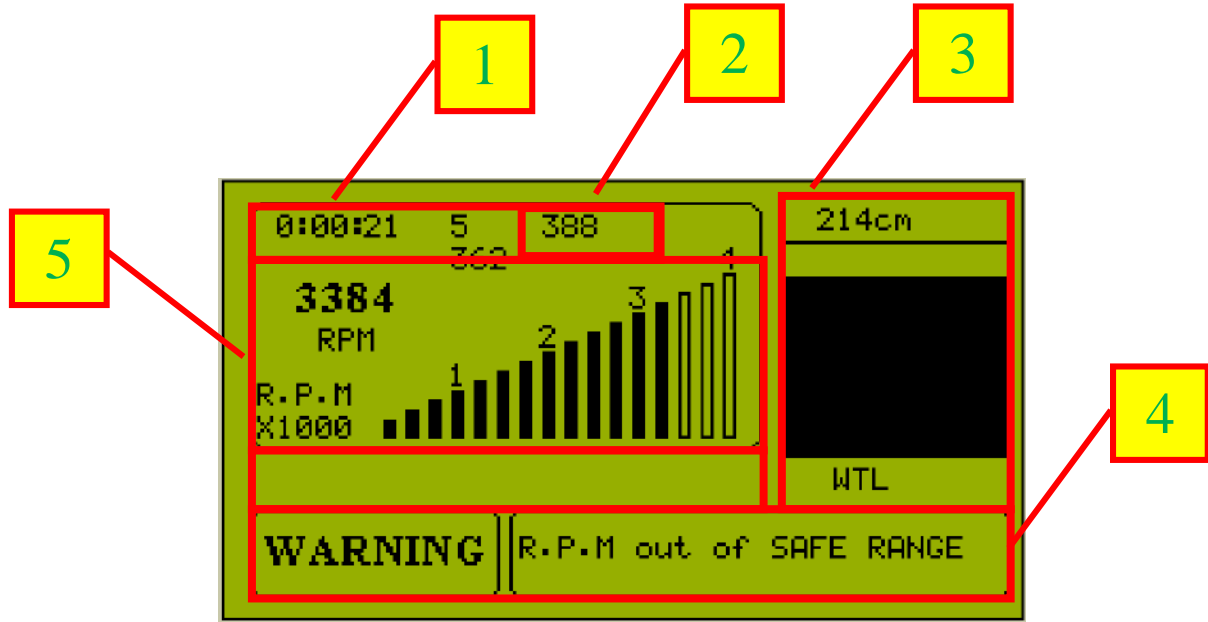

3) LCD: In this section, you can monitor parameters as below:

1. The time that panel already has been turned on.
2. Number of pages that data are saving in memory.
3. Water tank level
4. Warnings

WARNING	Check W.T.L Sensor/Wire
WARNING	Water Tank Near to Empty
WARNING	R.P.M out of SAFE RANGE

5. Rotational speed of pump in R.P.M.

Note: Whole switches, manometers and LCD has Label to help user to find his way on panel.