

OPERATION MANUAL OF MOBILE WATER TREATMENT PLANT.

The operation manual is divided into 2 parts i.e. The starting part and the ending part.

How to start the treatment plant:

The whole process is explained step by step in the part.

Step 1:



As we can see in the picture there are 2 blue boxes one on the left-hand side and one on the right-hand side. The 1st step starts with the box on the right-hand side.



This is the generator starter box. At 1st we have to start the generator. We open the lid of the box.



Step 2

We see there is a key-like nob on the right-hand side of the interior panel. We turn the key and put it in the middle just like in the picture below and keep it like that.



There will be 4 lights upon the start of the key. We wait until the lights are just like the picture below



Step 3:

Now we turn the key clockwise just like we do in a car or a bike to start the car or bike. Doing that the generator will start. Now we wait for 3-4 mins till the generator gets warm-up and we go to the next step

Step 4:

Now we turn on the circuit breaker by lifting it upwards just like in the picture below



Step 5:

After the circuit breaker is turned on we move on the exterior part of this box towards the lever just like in the picture below.

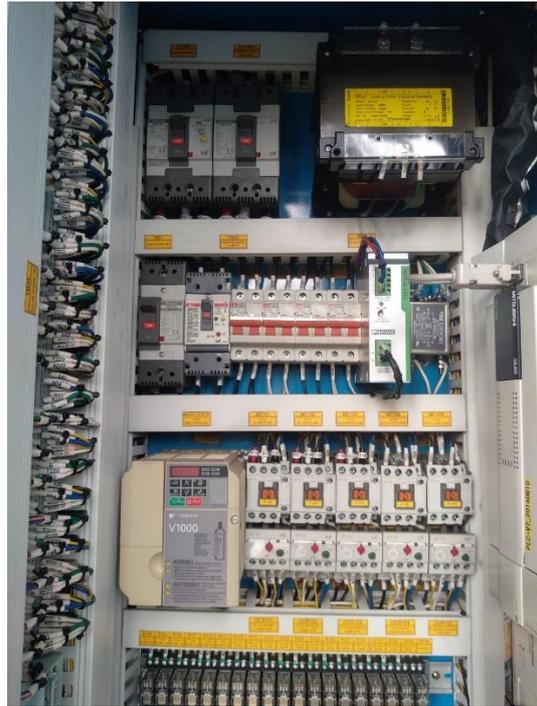


We turn the lever clockwise and put it in the “RUN” position.

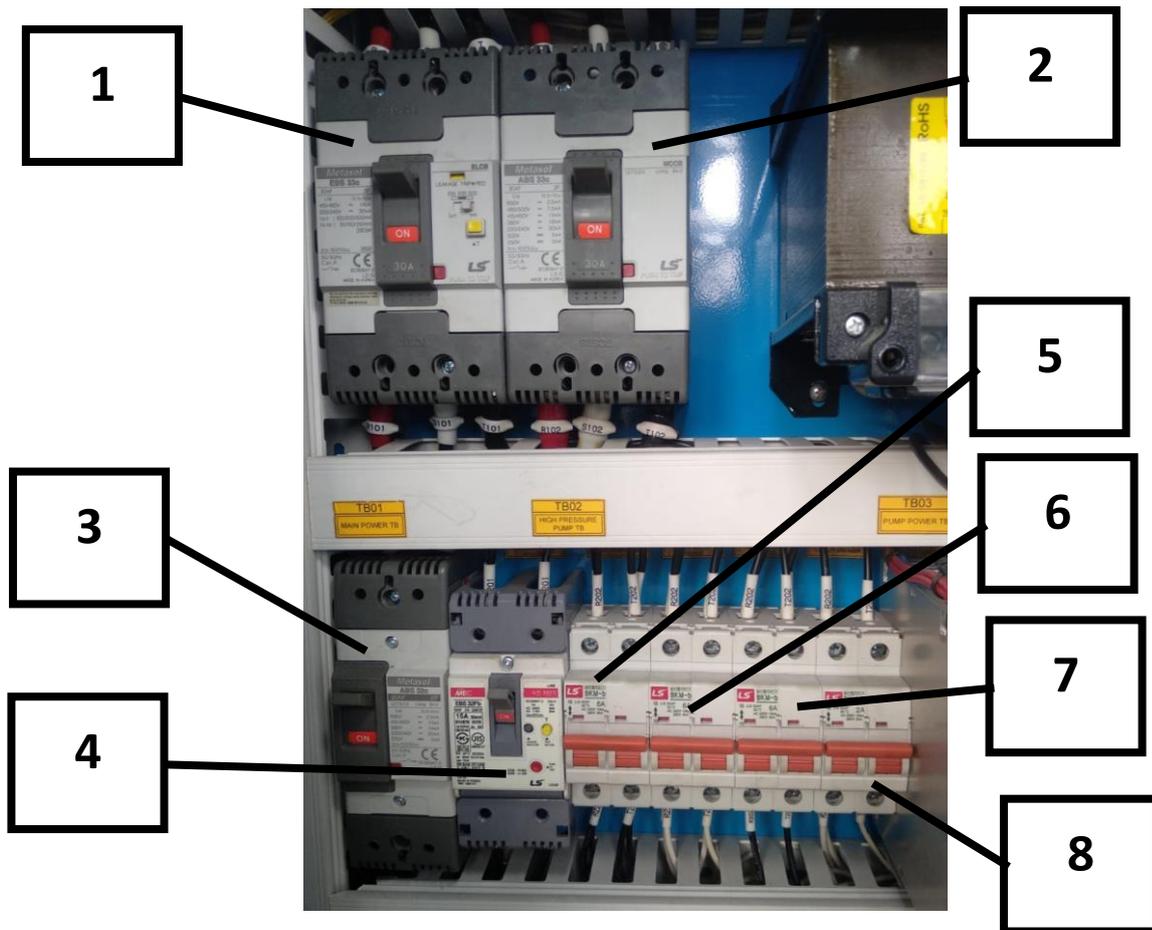
And this is how the whole generator is turned on

Step 6:

Now we move on to the other box and open the box. After opening the box just like in the picture we see some more circuit breakers inside. There are 8 circuit breaker switches. Now following a specific sequence we have to turn all 8 switches.



Here in the picture below, we see how the switches are in sequence.



We see that 5, 6, 7 & 8 have 2 switches together. They are together considered as one and will be turned on together. All the Switches will be turned on in a sequence one after the other according to the number given in the picture.

Step 7:

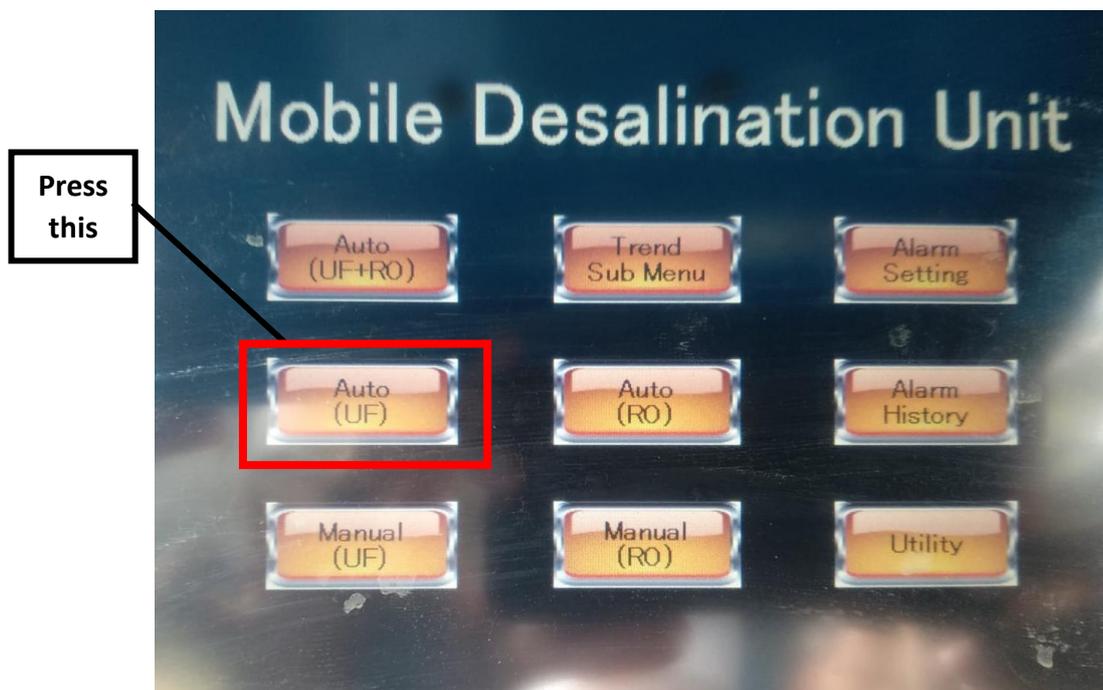
Now We turn off the door of the switch panel and on the door panel there is a covered screen. Now we open that screen according to the picture.



Here we see 9 options.

Step 8:

The screen is a touch screen and now we have to press the "AUTO (UF)" button



Step 12:

Now as the water starts running we have to go to the feed pump and turn the air screw on to let the trapped air out. There is a meter in front of the pump which will maintain the air pressure and it should not go more than 0.3.



This is the feed pump screw that is to be loosened to let the air go.



This is the meter that should give a reading less than 0.3. Now we wait till the tank in the control screen shows 50%.

Step 13:

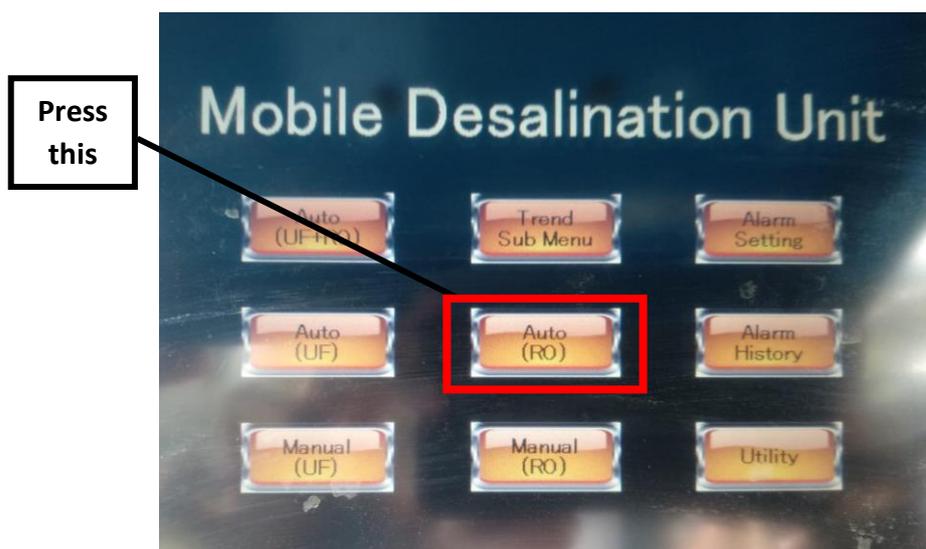
After the tank shows 50% we will turn on the air screw of the backwash pump just like the feed pump.



Step 14:

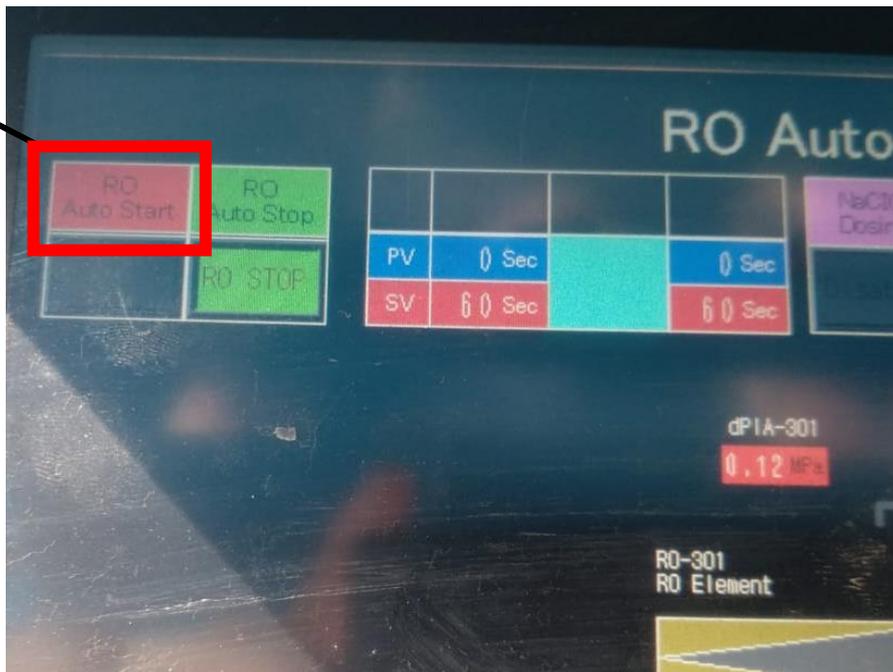
Now we wait till the tank is 60-70% then we will turn on the auto RO.

For this, we have to press back in the screen go to the main menu, and press Auto (RO).



Then we press RO Auto Start to start the RO treatment.

Press this



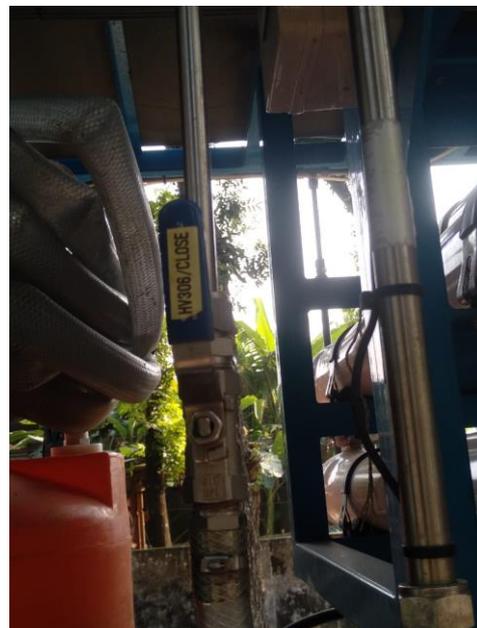
Step 15:

Now we turn on the HV306/CLOSE handle but turn it anticlock just like in the picture.

HANDLE IN CLOSED POSITION



HANDLE IN OPEN POSITION



Keep the handle in that position

Step 16:

Turn the NV301/OPEN handle clockwise and keep turning it.



Keep turning until the reading in the meter is between 0.65-0.67.



Sometimes it can go up and give a reading of 0.7 or more or it may give a reading of 0.6 or less but turning back and forth we need to adjust the reading and keep it between 0.65-0.67.

Now the water coming out of the treated pipe is fresh water and the water coming out of the untreated pipe is saline water.

How to turn off the treatment plant:

The process of turning the plant off is quite similar to the process of turning it on but in reverse

Step 1:

Make 0.00 in the display by turning the NV301/OPEN handle anticlockwise.



Step 2:

Turn off the HV306/CLOSE handle.

HANDLE IN OPEN POSITION

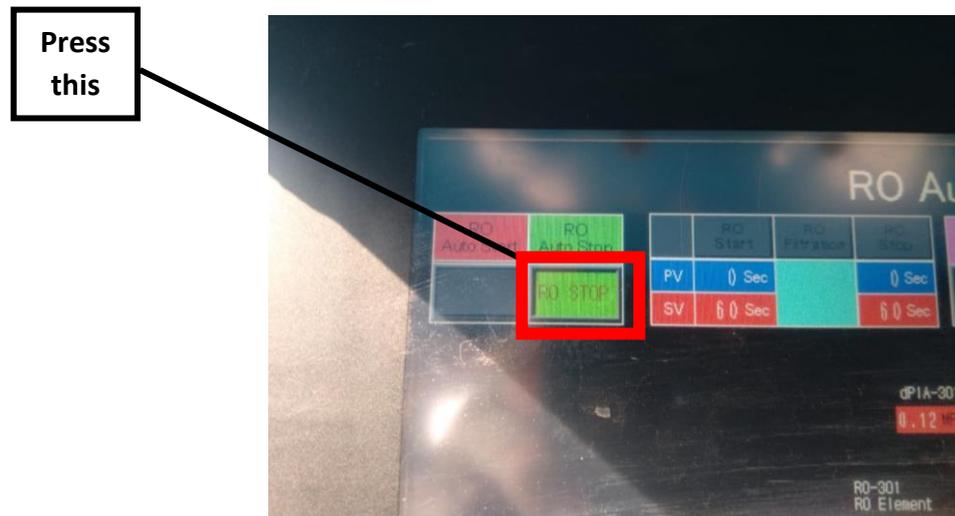


HANDLE IN CLOSE POSITION



Step 3:

Turn off the Auto (RO) by pressing the RO STOP button on the screen.

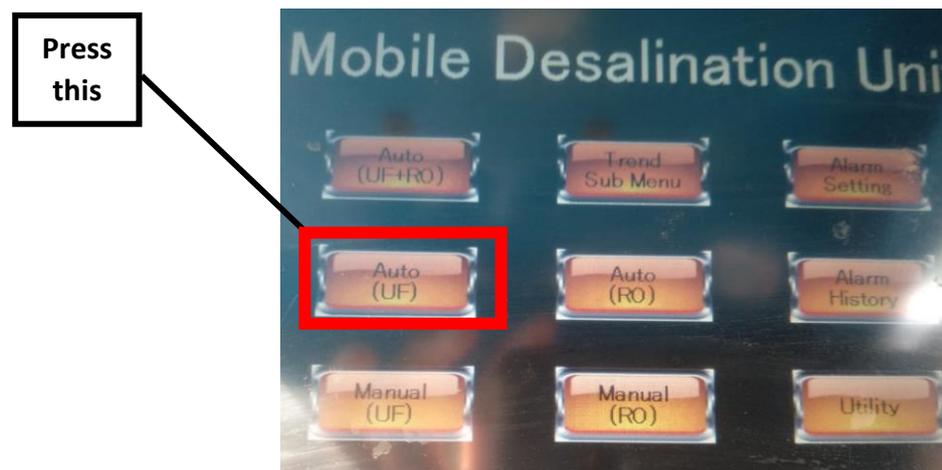


Step 4:

Press back and go to the main menu



Press the Auto (UF) button



Step 5:

Press the UF STOP button to turn off UF.

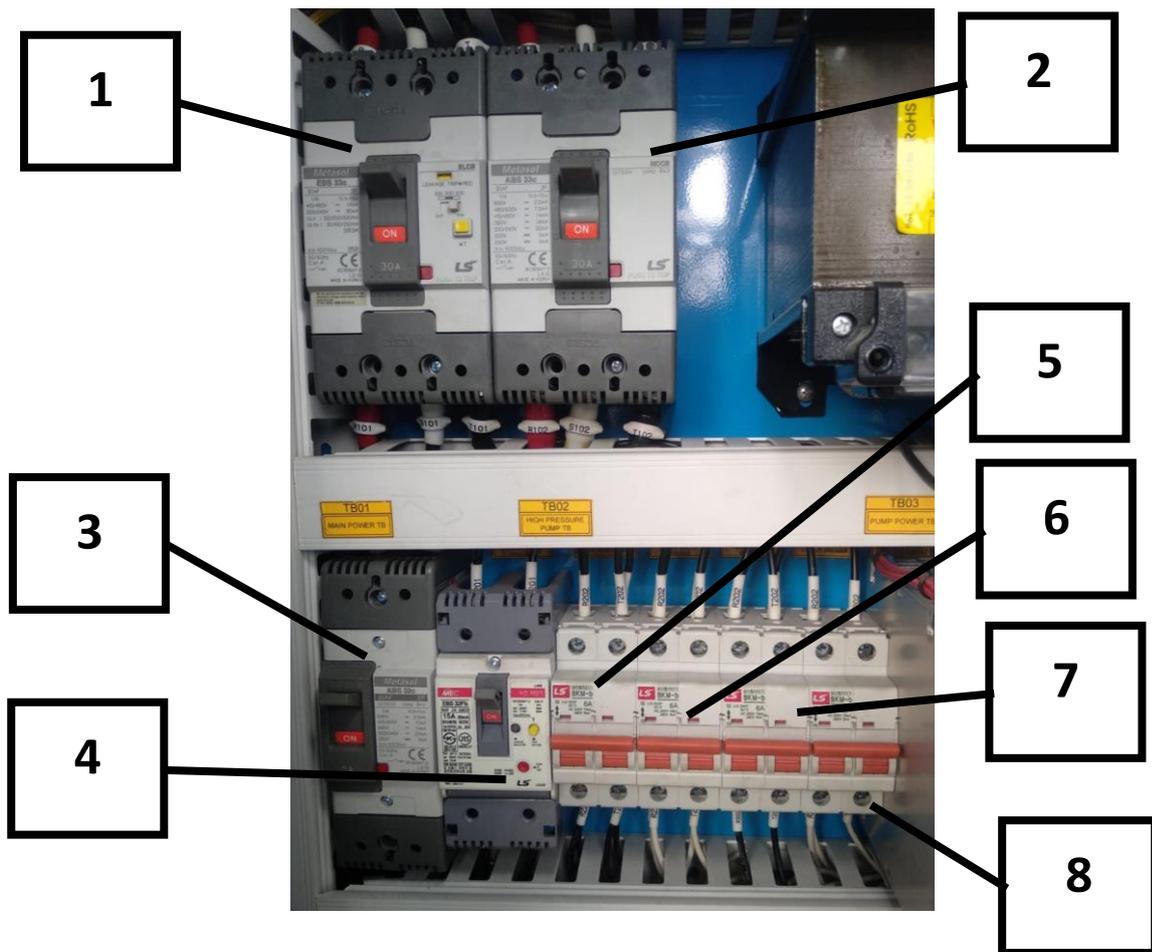


STEP 6:

Now cover the Display with the display cover and open the box in the picture to turn off the 8-circuit breaker switches.



Step 7:



Now we have to turn off the switches backward

8 → 7 → 6 → 5 → 4 → 3 → 2 → 1

Now close the door

Step 8:

We have to open the generator box door and turn off the circuit breaker switch.



Step 9:



Turn this handle anti-clockwise and put it in the Start position to turn it off.

Step 10:

Just like we started no we turned the key switch anti-clockwise and turned off the generator.



Close the door of the box.

. SAFETY .

DO WEAR ELECTRICITY-PROOF HAND GLOVES AND HANDLE THE WHOLE PROCESS WITH CAUTION.

And now the full process is complete.