**BIOFUEL FROM ALGAE**

1. The algae can be collected from any open pond or lake.
2. After the algae is collected, we need to separate maximum amount of water by filtering it in order to get the solid mass.
3. After filtering out, the residue can be grinded with a motor and pestle or can be grinded in a mixer grinder.
4. The obtained mixture is then kept in a beaker. The mixture is heated on a high flame with the help of a bunsen burner until the dry mass is obtained.
5. With the help of a measuring cylinder, 20ml each of hexane solution and NaOH solution and 10ml of ethanol is mixed in another beaker.
6. The dry mass is then added to that solution and mixed thoroughly.
7. The mixture is then kept undisturbed for 2-3 days.
8. On the third day, we will observe two layers are formed in the beaker. The dry mass gets sedimented at the bottom and the biofuel occupies the top layer.
9. We will separate out the biofuel from the beaker with the help of a dropper and take it into an empty bottle where it can be stored.
10. Now, the combustion test is done. The biofuel is the taken in an earthen lamp and a cotton wick is placed in it.
11. When we burn the cotton wick, we will observe that the biofuel burns with a reddish yellow flame. No residue of soot is left so we can conclude that there is complete combustion and it is an eco-friendly fuel.