

## 7. Performance analysis Hydroxy Gas Generator:

This study was done on producing hydroxy gas analysis its performance under varying conditions. For the fabrication process stainless steel sheets of 20 gage was used. A PVC enclosure was used holding electrode, electrolyte and produced gas. The produced gas was later passed from the PVC enclosure. A car battery was used for the electrolysis process. Potassium Hydroxide was used as electrolyte.



Fig: HHO Production

The production rate was tested under three conditions:

a. Effect of electrolyte concentration:

Concentration of KOH (M)	Production of HHO Gas (ml/min)
0.01	30
0.1	200
0.2	400
0.3	610

b. Effect of time at 0.1M KOH:

Time (min)	Production of HHO Gas (ml/min)
1	200
2	300
3	400
4	430
5	450

c. Effect of temperature 0.1M KOH:

Temperature (K)	Production of HHO Gas (ml/min)
300	450
328	510
355	650
403	690