6. Future scope of this study:

The coating of aluminum alloy can used for many applications such marine applications, scratch resistance, fretting resistance and corrosion resistance applications etc. For its applications many tests on coating has to be performed. The coating can be subjected to 3-point bent test to check the bending strength. Similarly, a cladding of carbon fiber can be applied on the coating so that it becomes stiffer as compared to the coating alone. It is expected that the cladding of carbon fiber would increase the tensile strength and stiffness of the coating. The tensile strength of cladded coating can be test over the universal testing machine. The application of carbon cladding also increases the fatigue strength of the coating. Carbon fiber cladded coating can be used for less weight and high strength applications such as car bonnet, bumper etc. Likewise, the coating can be subjected to fretting wear test to check the fatigue strength of the coating can be determined. The aluminum alloy coating can be further subjected to scratch test so that it can be used as scratch resistance coating on vehicles bonnet and bumper. Erosion test of the coating can be performed to find erosion properties, for potential marine applications.