

## **6 SCOPE FOR FUTURE WORK**

- The results of this study could be replicated by trying to clad copper of different thicknesses on substrates of low-alloy steel. The optimum thickness of the clad layer for different applications can also be found.
- The process of friction stir cladding could be applied to clad other corrosion resistant materials like stainless steel and titanium alloys and evaluate their performance.
- The process of friction stir cladding could be augmented with auxiliary sources of heating to reduce the load on the FSW tool. The effect of post-weld heat treatment on the quality of the clad material could also be performed, and subsequently, the performance of clad samples in an elevated temperature environment could also be studied.
- A new potential application for this clad component for applications in electrical transmission can be found, and appropriate testing of the clad samples could also be carried out