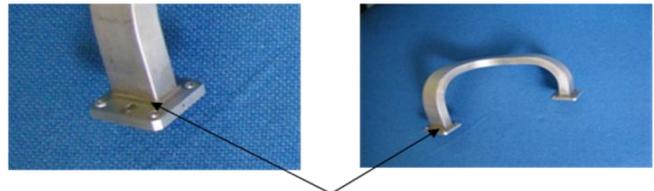


Following activities may be outsourced to the capable industries:

1. Inspection and screening of passive & active electronic components.
2. Qualification of electronic components (State of the art) for Space payloads
3. Batch acceptance testing of double sided/ multi-layer printed circuit boards (FR4)
4. Inspection of dielectric resonator discs and assemblies.
5. Micro-sectioning of PCBs & substrates
6. Waveguide elements with different rectangular tubing activity involving,
 - Supply of Rectangular Aluminium tube (wave guide)
 - Flange Manufacturing
 - Joining of tube to flange by TIG welding.



TIG Weld joint

7. Material Testing Facilities

Elemental chemical Analysis, Energy Dispersive X-ray (EDX) analysis, Tensile testing for mechanical & electrical material. Facility for X-ray, density measurement, fatigue test, melting point measurement for polymeric materials.

8. Space qualified Plating / Coating on packages made from Aluminium, Invar, Steel, Kovar etc for use in spacecraft.
 - Gold plating on Al alloy 6061/kovar/Invar.
 - Silver plating on Al alloy 6061/ Invar.
 - Electroless Nickel plating on Invar.
 - Black anodizing/Anodizing/chromate conversion coating of Al. alloy 6061
9. **Reliability Analysis**
 - Spice Model generation of new devices for circuit simulation.
 - Schematic conversion from CADSTAR to ORCAD.

10. Software Testing

SAC is involved in the design and development of various space-borne instruments for ISRO's space missions and also in the design, development and deployment of software intensive systems for data products generation and data quality evaluation of remotely sensed data from orbiting space platforms using signal processing, image processing and photogrammetric techniques. While the initial version is targeted for operational use at the National Remote Sensing Centre, Hyderabad, the subsequent versions are meant for operational use at other ground stations, including international ground stations. The regression testing for these subsequent versions of Data Products Generation software could be outsourced to industry. The objective is to off-load the repetitive system level regression tests towards acceptance testing based on specific user documentation for multiple users with user-specific subtle differences incorporated in the SW products.