

- Drilling holes and countersinking
- Selecting correctly tap drill size and drilling holes for threading
- Cutting threads using taps and dies
- Chamfering the screw head
- Raising both ends of the tommy bar
- Assembling and finishing

### **Weaknesses**

Although all the candidates were able to come up with a complete project the following weaknesses were evident as portrayed in the finished projects.

- i) Failure to mark out and cut materials to the required sizes and shapes within the given tolerances
- ii) Inability to file the movable jaw to the required size and shape
- iii) Failure to drill holes centrally on the screw guide
- iv) Inability to thread the screw accurately to match the internal threads in the screw guide
- v) Brazing and gas welding were very poorly done.
- vi) Workmanship in assembly and finishing left a lot to be desired

### **19.3 ADVICE TO TEACHERS**

Teachers should ensure that their candidates are adequately taught and exposed to practical work to facilitate acquisition and mastery of all the basic skills stipulated in the syllabus by the end of the course.

In addition, teachers are advised to study the working drawings and make models of the project before their students start making the project. It is very important for the teachers to establish any possible difficulties that are likely to be encountered by the candidates when making the project and therefore guide them accordingly.