















Figure 11: Deflection Plot.

## 10. Conclusion

Modeling of scaffolding structure is carried out using Pro/E and analysis by using ANSYS. Analysis is done for the pressure loads due to weight of munitions on the scaffolding structure. The project infers that the maximum deflection for the scaffolding structure is less than 0.7 mm with factor of safety of 2. The analysis using ANSYS has been done to the most preferred solution which is, the maximum deflection is 0.225 mm. This value approximately equal to the solution that is obtained in theoretical method and so the result is favorable. Hence the 12-8-8 (Total 28) arrangement of munitions can also be put in practice.

## References

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