

Consultancy services

FEAST provides expert consultancy services in following areas:

- Design and analysis of engineering components and systems
- Fatigue and Fracture analysis of structures
- Design and analysis of composite materials
- Failure analysis of machines and machine elements
- CAD/ CAE services
- Solid Modeling
- Finite Element Analysis

FEAST has done the following consultancy jobs in the above line:

1. Prediction of residual life and safety of chemical reactor.
2. Determination of the cause of failure and improvement of fatigue life for solenoid operated valves.
3. Determination of cause of failure and enhancement of fatigue life of high tension 220kV circuit breaker pawl and ratchet mechanism.
4. Design verification of gear boxes for one of India`s Premier PSU.
5. Analysis of surface crack formation on the idler of tracked vehicle and suggestions for proper heat treatment procedure.
6. FEM analysis of crane girder and suggestion for improvement.
7. Failure analysis of push-rods in the plastic blow molding machine.
8. EOT Crane design of various crane manufacturers.
9. Design and analysis of hydraulic thruster for submerged arc steel furnace.
10. Fatigue analysis for life of 120 years as per BS: 5400/ EURO-91 specifications for steel girder bridge for one of India`s leading bridge designing and erection company
11. Design and verification tilting system of missile launcher.
12. Design and development of car loading arrangement on double decker container for transport through railways.
13. Design verification and recommendation of 220kW crane gear box.

Customization of software

Many times companies have their own standard procedures involving manual or graphical calculations. Invariably, when the batch of Engineers leave or retire the new entrants have to be trained may be again & again. In such situation, customized software will prove very useful to produce time & again reliable calculation & design. It could be incorporating company specific imported materials there by making exclusive product than depending on just regular software available in market. FEAST Software is capable of providing such software in a short time and maintains confidentiality.

Training and continue education program

FEAST provides training services in the fields of Machine Design, Fatigue & Failure Analysis of Machine Elements such as Gears, Bearings, and Composite materials and Fatigue of Composites. Regular workshops are conducted by FEAST on above topics in association with prestigious institutes at various places across India. FEAST can also provide a customized training program for a group of engineers from a particular company on the subjects listed above.

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