Design Engineer

AUTHORITY:

1. To apply and secure boiler design approval from 3rd inspecting party and JKKP.
2. To issue Fabrication drawings to Workshop/Contractors.

RESPONSIBILITIES:

1. Check and verify Boiler Specification Record (BSR) against customer requirements in sales contract.
2. Perform product stress calculation and drawings according to BSR, Boiler and Unfired Pressure Vessal (UPV) design code (BS1113/ASME) Sec. 1 or Sec. V111 Div. 1) and statutory regulations (FMA. 1967).
3. Liaise with 3rd inspecting party and JKKP for securing Boiler or UPV design approval.
4. Keep records on Boiler or UPV design approval in engineering server.
5. Ensure accuracy of the engineering design output from designer or draughtsman.
6. Issue fabrication drawings to workshop/contractors and register it into engineering server 'Transmittal Record'.
7. Schedule Design Plan to meet product on-time delivery.
8. Site visit and improve existing boiler design as required.
9. Provide boiler technical data/information as required by internal customer.(internal customer includes project/production/QC/Sales team).
10. Assist in developing new product design.

EXPERIENCE / SKILLS REQUIRED:

1. Degree in Mechanical/Structural/Chemical Engineering recognized by Board of Engineering (BEM)
2. Engineering knowledge in heat transfer, combustion, strength of material and fluid mechanic.
3. Knowledge in engineering drawing and able to operate CAD software (AutoCAD 2D/Solid Work 3D).
4. Accumulated experience on the process of boiler fabrication, installation, testing and commissioning, operation and maintenance.
5. Able to understand clearly and resolve the engineering design matter.
6. Able to cope up with the market trend, price conscious and exceed customer expectations.

SPECIAL OR UNIQUE ASPECTS:

1. Knowledge in engineering analysis software for steelwork, fluid dynamics eg : Staad.Pro, Prokons Ansys Fluent Ect.