RESUME

DHAIVAT THAKAR

MECHANICAL ENGINEER - STATIC

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Career Objective

To be in an engineering team of an established organization executing large scale projects which offers an individual a technical platform to expose their skills and be a part of company's success by meeting the schedule & cost targets.

Experience

I have 3 years' experience in the field of Static equipment design. I have experience in the design of Pressure Vessels, Shell & Tube Heat exchangers and Air Cooled Heat Exchangers based on ASME, TEMA & API codes. I am conversant with Ansys, Code Calc, PV Elite, FE661 & Nozzle PRO.

Nature of job / Responsibilities

- Mechanical design of heat exchangers (shell & tube and air cooled) and pressure vessels
- Responsible for obtaining approval of design & drawings from Clients and TPI
- Preparation of purchase specifications based on Client's specifications & codes for material procurement
- Allotment & follow up of jobs with draughtsman to meet the engineering schedule
- Checking of fabrication drawings
- Preliminary design of equipments for making proposals to Clients
- Monitoring & controlling engineering activities to keep it in the track of overall project schedule & reporting the engineering status to the Management & Clients
- Coordinating with production & QC departments on any technical issues for smooth running of the project
- Coordinating with Subcontractors and material suppliers on technical issues
- Participate in discussions with Client & TPI to resolve any technical hurdles and ensure smooth running of the project

Dhaivat Thakar Page 1 / 4

Projects Handled

- Shell & Tube Heat Exchangers: U tube, Fixed tube sheet & floating type exchangers for BPCL and Aishwarya Project, IOCL Haldia.
- Air Cool Heat Exchanger for Aishwarya Project, IOCL Haldia.
- Shell & Tube heat exchangers for Dangote Refinery.
- Shell & Tube heat exchangers for Koerting Ltd.
- Air Cooled Heat Exchangers for KPCL Kochi & Mumbai.
- Air Cooled Heat Exchangers for Essar , BORL & Reliance

Employer: Patels Airtemp India Ltd

Period: Sept'13 to date continued

Technical Activities / Skills

- * design of Pressure Vessels, Shell & Tube heat exchangers and Air Cooled Heat Exchangers based on ASME Sec VIII Div 1, API 661, TEMA & IBR regulations.
- design of AES, AKT, AHS, AEM, BEM type heat exchangers (for IOCL).
- * expansion bellow design as per TEMA and Sec VIII Div 1, Appendix 26
- design of floating head and fixed tube sheet heat exchangers as per TEMA and ASME, part UHX
- design of plug type, inner plug type and cover type headers for Air Cooled Heat Exchangers using API 661 and App. 13 of ASME Sec VIII Div 1
- carrying out saddle calculations as per Dennis Moss and ASME Sec VIII Div 2
- Checking of Structure detailed Drawings of Air cooled Heat Exchangers w.r.t Structure design (STAAD) and General Arrangement Drawing
- Header leg shear stress calculations for bundles inclined at 15 deg.
- leg support design, lifting lug calculations, seismic and wind design as per IS 1893 and IS 1875
- preparation / review of fabrication drawings.
- selection of belt drives for air coolers
- * preparation / review of various drawings for air coolers such as structure details , tube bundle, bundle frame, motor suspension, plenum chamber,fan drive assembly bearing block,general arrangement drawing
- * preparation of technical purchase specifications for vessels and heat exchangers as per ASME Sec II, NACE MR 0103 & MR 0175 & consultant's standards. Preparation of technical purchase specifications for vibration switch,fans,belt drive, vibration transmitter, junction box, VFD ,motors, louvres, local control system for air coolers.

Dhaivat Thakar Page 2 / 4

- nozzle local load calculations as per WRC 297
- review of STAAD calculations
- stress classification per ASME Sec VIII Div. 2
- * carrying out FEA using FE 661 software for nozzle loads on header plates
- finding out principal stresses for internal pressure and static head for nuclear vessels and principal stresses during hydrotest using in-house developed excel based programs
- preparation of technical purchase specifications for nuclear vessels as per ASME Sec II part A and ASME Sec III NB 2000 requirements
- * nuclear vessels design by analysis as per Sec 3 Div. 1 NB 3200
- calculating bolt torque required for flange

Computer Skills

Operating Systems: Windows XP / Windows 7.

Software packages: MS Office, AutoCAD, Ansys, CodeCalc, PV Elite, FE661, Nozzle PRO

Professional Qualification

(1) Bachelor of Engineering (Mechanical) Aug 2010

College: Saphthagiri College of Engineering, Bangalore University: Visveswaraiah Technological University

(2) Master of Engineering (CAD / CAM) Aug 2013

College: Indus Institute of Technology & Engineering

University: Gujarat Technological University

Dissertation on 'Analysis of Catalyst Support Ring and Head to Skirt Junction in a pressure vessel based on ASME Section VIII Division 2 using ANSYS software' at **L&T-Chiyoda Limited** from Jul 2012 to Jun 2013

Paper published

Analysis of Catalyst Support Ring in a pressure vessel based on ASME Section VIII Division 2 using ANSYS software

Project undertaken

Title: Pneumatic powered pick and place equipment

Seminar

Dhaivat Thakar Page 3 / 4

Carried out literature review and prepared a report on various types of heat exchangers including the Compact type heat exchangers. Amongst the Compact heat exchangers, carried out extensive study of Printed Circuit Heat Exchangers (PCHE) used in the oil & gas industry. Presented the report in a university seminar.

Reference

References will be provided if required.

Personal Profile

Date of Birth: Dec 21, 1987

Sex: Male Marital Status: Single

Languages known : English, Hindi, Gujarati
Hobbies : Reading, music & cricket

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Date: Nov 2016

Dhaivat Thakar Page 4 / 4