Mr. Aniket A. Jagtap
Contact: +91-8390817589 / 9822874597
E-mail: aniketjagtap555@gmail.com
DOB: 21/04/1993
Current Location: **Pune**

Objective:

To work in an industry that deals with extensive research and development in technologies, where I can utilize my knowledge and skills for the growth of the organization.

Career:

- Currently working in **thyssenkrupp Industries India pvt ltd** as **Senior Executive Engineer** in **Cement Design & Engineering Services** department & for **POLYSIUS** department **(Germany).**
- Total **9 years of experience** in field of **Cement and steel plant planning and Design (3D) and General Arrangement Drawings (2D)** by using **Plant Design Management System (PDMS) software and AVEVA Everything3D (E3D), AutoCAD and Navisworks Manage software.**
- **Conducting Pipe stress analysis using Caesar 2 software as per ASME B31.3**

Work Experience:

Plant Planning-

- Experience in designing cement & Steel plant in 3D with skill of optimization of buildings thereby **reducing cost of structure and space required for installation**.
- Experience in making **General Arrangement Drawings (2D) as per GA lifecycle, Single Line Layout, Equipment Layout, Plot Plan, Layout drawing, Proposal Drawing, Assembly & Part Drawing and foundation drawings of various sites in plant** and providing detail views required for onsite execution for Cement & Steel Plant.
- Currently **leading team** of 6 members for **3D Design of Hydrogen powered Decarbonized Green Steel plant of thyssenkrupp and SMS group GMBH** in Gemany and responsible for submitting optimized 3D design of steel plant and provide General Arrangment drawings and architectural drawings in coordination **with SMS Group,India and Paul Wurth , Italy.**
- Contribution in various new cement plant tenders and contracts and up gradation of existing plant capacities for few projects.
- **Team lead** for project of **Pre-Configured Plant Concept (PCPC)** by using **Modular product building blocks** of different sites.
- Knowledge of **cement manufacturing process and equipments** and their operation.
- Good in arrangement of equipments and their connection as per **process flowsheet**.
- Knowledge of **Belt conveyors**, **chutes, fluidors, dedusting system and process gas ducts design and detailing of drawings (2D)**.
- Aware of **design criteria required for designing civil and steel structures** in buildings, stairtowers, transfer towers and belt conveyor gallery and making design optimized.
- Knowledge of **Piping design & Layout, Process Piping, P&ID, Piping Support Selection, Process flowsheets, Pipe Fitting, Pipe Routing and detail 2D isometric drawings.**
- Coordination with Chute and Ducts team, Belt Conveyors team, civil department, Equipments suppliers, piping department and onsite erection team. Experience in managing projects to meet customer requirement on time.

Piping Stress Analysis-

- Conducting Pipe stress analysis using Caesar 2 software as per ASME B31.3
- Selection of variable/constant springs
- Pipe supports design & selection to ensure proper working of piping system
- Selection of expansion joints
- Flange leakage analysis
- Perform evaluation of nozzle loading by WRC107/297
- Submitting Piperack loads to civil & structural for design of pipe rack/structure & foundation
- Trunion calculation, Support Span Calculation , Guided Cantilever method
- Expansion Loop Analysis
- Optimizing piping layout by considering piping design/stress analysis/support design
- Preparation of stress critical line list and Preparation of datasheet for springs/expansion joints/struts/snubbers, review of vendor dwg & technical bid analysis
- Underground pipe stress analysis

Projects:

1) Catch4Climate: Green Cement Production, 450tpd Clinker Line, Germany

a) Project by CI4C (Cement Innovation for climate) research society
b) Responsible for building polysius Pure Oxyfuel kiln system to reduce CO2 emission.

2) HAE: Thyssenkrupp Green Steel Production,2.5 million metric ton DRI, Germany

a) One of largest Decarbonization/Green steel production plant
b) Leading Engineering Team of **SMS group Gmbh, Germany**
c) Responsible for building Direct Reduced Iron plant and Furnace Tower

3) Value Engineering (PCPC):

a) Standardization of **Raw Mill** (3F) site for different mill sizes
Type: **Outdoor/indoor installation & maintenance by mobile crane**
b) Standardization of **Raw Meal Silo** (3K) site for different capacity sizes.
c) Standard assembly of **Discharge Conveyor, Metal Detector, Magnetic Separator and Change Over Flap** for various size of Discharge Conveyor provided by **SCHENK**

4) YAMAMA Cement Company: 2x10000 TPD Clinker Line, Saudi Arabia

Responsible for a)6C1-Conveying from cement silo to packing plant b)2J1-Additive Conveying

5) SOUSFA: Lafarge Holcim: 3500 TPD Clinker Line, Morocco

Responsible for a) 3K1-Raw Meal Silo b) 3J1-Raw Meal Conveying

6) HELIOSFA: Cementos Argos: 4300 TPD Clinker Line, Colombia

Responsible for a)3E1-Raw Mill Dosing c)4U1-Unburnt Clinker Silo

7) SCV: Siam City Cement Co ltd: 1000 TPD Clinker Line, Vietnam

Responsible for a) Upgrade Cement ball mill with Combi Grinding Circuit in existing plant.

8) PCR: Petroquimica Comodoro Rivadavia: New 2500/5000 TPD Clinker Line,Argentina

Responsible for a) Adding new line of Clinker to packing plant process in existing plant

Software:

1) **Plant Design Management System (PDMS)-**
- Design of Cement plant in 3D
- General Arrangement Drawing of Cement plant in 2D
- Chute and Ducts, Belt Conveyors and Fluidors Drawings in 2D

2) **Everything 3D (E3D)-**
- Design of Cement plant in 3D and General Arrangement Drawing of Cement plant in 2D

3) **CAESAR 2** 4) **SP3D** 5) Review Software –Review Insight
6) Autodesk Naviswork 7) Review Insight 8) **CATIA V5**
9) **CREO 3.0** 10) **AutoCAD** - 2D and 3D design and draft 11) **Solidwork**

Certification-
1) **PG Diploma in Piping Engineering- ASTS Global Education Institute (2023)**
2) **Advance Pipe Stress Analysis – Protton Synergy Engineering Pvt ltd (2023)**

Modules Exposure in E3D/PDMS:

1) Pipe Route Modeling 2) Equipment Modeling 3) Structure/Building Modeling
4) HVAC Ducting 5) Piping GAD Extraction 6) Isometric Extraction
7) Plant Layout and GAD extraction 8) Clash & Interface Checking 9) Cable Tray System

Modules Exposure in CAESER 2:

1)Static stress analysis 2) Flange Check Analysis 3) Variable/constant Spring method
4)Expansion Joint Selection 5) Pipe support design & selection 6) Nozzle loading check
7)Expansion Loop Calculation 8) Underground Pipe stress analysis 9) Piperack loading

Education Details:

Degree	Institute	University	Year	Result
B.E.	PES Modern College of Engineering, Pune	Pune University	2014	70%
12th	Yashwantrao Chavan Institute of Science, Satara	Maharashtra State Board	2010	92.84%
10th	New English School, Satara	Maharashtra State Board	2008	95.84%

Extra-Curricular Activities:
- Represented **Maharashtra State in State level Table Tennis Tournament** (2010)
- Represented thyssenkrupp in **Table Tennis and Cricket tournament organized by Industrial Sport Association** (ISA)
- Successfully organized department level Table Tennis tournament in thyssenkrupp
- Certified **Personal Trainer** and **Sport Nutritionist** from K11 academy of fitness science
- Received **Leadership Excellence Award** for leading team of Green Steel Plant with SMS group Gmbh, Germany.

Languages Known: English, Hindi, Marathi