

MADHUSUDHANA REDDY KODURU

Pursue passion for designing mechanical systems and components. Seeking a challenging job that would synergize my skills and knowledge with the objectives of the organization. Resilient, Organized Post graduate with excellent analytical skills, interest in system design and proficiency in grasping new technical concepts quickly. Prepared to offer 3 years' experience to a permanent role with room for advancement.



Work Experience

June 2018 – May 2020 Assistant Engineer Trainee
June 2020 – Current Assistant Manager
TATA STEEL
WeAlsoMakeTomorrow Design & Engineering
Tata Steel Ltd, Kalinganagar, Odisha

- Preparation of Concept notes,
- Preparation of Layouts, PFDs (Process flow diagrams), P&IDs (Piping & Instrumentation diagrams),
- Preparation of Schematic diagrams, BOQs (Bill of quantities).
- Review of General Arrangement Drawings and Technical Datasheets
- Preparation of Technical Specifications, evaluation of Technical offers and preparation of Technical Recommendations.
- Heat load, Ventilation requirement, Chilled water pipe size and other design calculations.
- Air conditioning, Ventilation, Chillers, Pumps, Cooling Tower equipment selection.
- Preparation of Single Line ducting diagrams and basic pipe routing diagrams,
- Assignment drawings preparation.
- Preparation and review of Air conditioning ducting layouts, Ventilation layouts, Piping layouts and Equipment layouts.
- Bill of quantities preparation and validation.
- Review of 2D drawings from Vendors.
- Review of 3D drawings using Navis Works.
- Fair understanding of traditional refrigeration systems.
- Basic understanding of alternative refrigeration technologies.
- NPV calculations.
- Understanding of Process flow of project activities from indent creation to Dispatch of goods
- Review of Inter Departmental drawings for interface clashes.
- Fair understanding of Engineering Process flow from concept note to Hand over of Project.
- Basic understanding of Steel making process.
- Basic understanding of construction activities.
- Attending Tech Talks and Webinars for cross function domain knowledge improvement.



Contact



1B-402B, Tata Housing Complex,
Brahmnapal, Daitari, Kendujhar-758082.



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Education

- **M.Tech** in Refrigeration & Air conditioning
 - Jawaharlal Nehru Technological University, Anantapur, AP_ 2017
 - CGPA : 8.21
- **B.Tech** in Mechanical Engineering
 - Rajiv Gandhi University of Knowledge Technologies, Kadapa, AP_2015
 - CGPA : 8.57
- **Minor** in Management Studies
 - Rajiv Gandhi University of Knowledge Technologies, Kadapa, AP_2015
 - CGPA : 8.57
 - YOP : 2015
- **PUC** in M.Bi.P.C
 - Rajiv Gandhi University of Knowledge Technologies, Kadapa, AP_2011
 - CGPA : 9.43
- **SSC** Board of Secondary Education - AP
 - Vikas Vidya Vihar High School, Vinjamur, AP_ 2009
 - Marks % : 95.67



Academic Projects

- B. Tech- Study the Effect of Different Design parameters on Lift, Thrust, and Drag of an Ornithopter.
- M.Tech- Analytical and Numerical Model analysis of Elastocaloric cooling system.



Internship

- Undergone Internship at NTPC Simhadri Super Thermal Power Plant,- Visakhapatnam-May-2014.



Professional Projects

The Tata Steel Limited, Kalinganagar (TSK) as a part of Phase-2 expansion project is setting up Cold Rolling Mill, Pellet Plant, Blast Furnace, Coke ovens, Captive power plant, Air separation Unit, HSM, SMS & RMHS. ECR buildings and office premises need to be properly air conditioned and ventilated as per requirement.

Have involved in Basic Engineering (In house), review of Detail Engineering (Vendors) and actively participated in Procurement Engineering activities related to HVAC system and Chilled water Piping. Completed and ongoing projects are mentioned here.

- Pellet Plant 6MTPA: 600 TR, 9400Sqmt AC ducting
- CRM 2.2MTPA: 3300 TR, 35000Sqmt AC ducting
- BF-2 4.375MTPA: 600 TR, 6000Sqmt A ducting
- SMS, LCP: 500 TR, 6000Sqmt AC ducting
- HWT5 & RMHS: 110TR, 1100Sqmt AC ducting, 9000sqmt tunnel Ventilation ducting
- HSM Bar Code Labelling Machine: 24 KW Industrial AC
- CETP, ASU & Other U&W areas: 500 TR, 7200sqmt AC ducting, Ventilation
- COBP: 7200sqmt
- Ventilation for above mentioned projects (653 Equipment)
- Yard Machines AC: 100 KW Industrial ACs
- CSI office: 140 TR, 1400Sqmt AC ducting
- Chiller Plant: CHWP-01_1250X1 TR, CRM_1875X2 TR.
- COBP Chiller Plant: 6*1250 TR
- Apartment from TSK projects occasionally involved in TSJ and other RM Projects
- XLRI Campus Delhi: 540 TR.
- Project Centre, Business Centre, DDC building TSJ: 400TR, 3800Sqmt AC ducting
- LF site: 100 TR, 800Sqmt AC ducting
- TSBSL Angul: 200 TR



Interests



Cricket



Running



Declaration

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.
I bear the responsibility for the correctness of the above mentioned particulars.

Date : 11.06.21

Place: Kalinganagar, Odisha



Skills

Problem solving



Engineering Aptitude



Active Listening



Team Management



HVAC



Software

Auto CAD



Duct Sizer



Navis Works



Microsoft Office



Extra-curricular Activities

- Participated in DST-Inspire Science Camp from 2nd May to 6th May 2011, sponsored by the Dept. of Science and Technology and organized by the Dept. of Physics, JNTUACEP.
- Participated in Technothon Event 2k14.
- Participated in Noamundi Marathon(10KM) organized by Tata Steel on 18th Nov 2018
- Participated in Outdoor Leadership Programme in Garhwal Himalaya at Uttarkashi from 13th Nov to 22nd Nov 2018.
- Participated in Kolkata Marathon(25KM) organized by Tata Steel on 16th Dec 2018.



Languages

Telugu



English



Hindi



Madhusudhana Reddy Koduru