



Abhijit Latthe

Pune, India.

Mobile # +91-9766770073
abhijitlatthe@gmail.com

Career Summary

Expertise in handling Packages like Bulk material handling system, Mechanical handling system, Truck & Wagon loading system, Baggage loading system. Offloading packages like Ship-loader, RTGC, and Pedestrian cranes, EOT cranes, Electric & Manual hoist. Packages for mining industry like Semi-mobile crushing plant, Shiftable conveyors, Utility packages like DSS, DFDS, Wash down system.

Expertise in designing of equipment like Stacker cum reclaimer, Slewable stacker, Bridge Reclaimer, Side scraper, Traveling Tripper, Circular stacker reclaimer, Portal reclaimer, Ship loaders & Unloaders, Conveying system.

Experience of Basic and detailed engineering of Material Handling system for process plants such as fertilizers, Cement, Petrochemicals & Refinery, Thermal Power plant, Steel plant, off sites and utility facilities for material like Urea, Coal, Pet coke, Limestone, Bauxite.

Engineered in Hydraulic circuits, Power unit layouts, Cylinders, Piping layouts etc.

Professional Experience (Total 15+ years)

Present Employer : **ISGEC Heavy Engineering**
Work experience : From 26.11.2018 to till date.
Designation : **Manager – Packages & Engineering**

Previous Employer : **thyssenkrupp Industries India**
Work experience : From 21.06.2008 to 23.11.2018
Designation : **Sr. Executive – Packages & Engineering**

Software / Tools / Technology used

- AutoCAD : 2-D & Layout drawing
- Solid works, Pro-E : 3-D Modelling, 2-D Drawing
- PDMS : Plant Modelling
- MS Project : Project scheduling
- Newton-Professional : Material flow analysis
- MathCAD : Calculation
- SAP : Project execution

Roles & Responsibility at ISGEC Heavy Engineering

- Creating Plant layout, Stockpile layout drawing.
- Creating Process flow diagram (PFD)
- Creating Process instrument diagram (PID)
- Equipment GA & sub assembly drawing preparation.
- Preparation of foundation plan & load drawing of Package for civil design.
- Preparation of Complete technical project document & Data sheet.
- Finalizing Warehouse / Material storage yard size based on Stockpile capacity calculation
- Belt conveyor capacity & kW calculation as per CEMA & IS: 11592
- Drives component selection like Gearbox, Coupling, Brakes and Motor etc.
- Conveying system equipment selection like Belt, Idler, Pulleys, Scrapers, Belt Weighter.
- Vibrating feeder, Crusher screen, Flap gate, Flow divider, ILMS, Sampling unit selection.
- Machine stability calculations as per ISO: 5049, FEM.
- Review FEA reports, suggestions for improvement & optimization, implementation in actual design based on final report.
- Preparing Bucket elevator specification. Sizing of components of Bucket elevators like Bucket, chain, sprockets, drive components.
- Creating technical specifications of Bought out equipment.
- Bought-out component offer evaluation, technical clearance.
- Checking and approval of Bought out equipment drawings.
- Chute, Hopper & Silo sizing & layout drawing preparation.
- Chute, Hopper & Silo detail design & material selection.

- Material flow analysis inside Chute, Hopper & Silo using Newton Professional.
- Preparation of advance raw material requisition for Packages.
Material requisition includes material like Plates, Rolled section, Hardware, Casting, Forging, Liners.
- Preparing quality inspection specification for raw material procurement indicating mechanical, chemical properties with testing plan.
- Technical support to manufacturing, procurement, subcontract, quality, site services, after sales & revamp services.
- Erection drawing, Erection manual preparation for packages.
- Preparation of O&M manual.
- Preparation of Mechanical handling philosophy for equipment used in packages.
- Man Hour Estimation & control, Engineering Deliverable review & responsible for the quality.
- Work with other teams like project management, PPC, Site, Electrical, Instrumentation, and QA.
- L-1 level work schedule for engineering activities in MS Projects
- Monthly tracking of the project schedule wise & estimated vs actual tonnage release wise.

Project handled details

Sr. No.	Project	Equipment handled	Material Handled
1	MCM Jordan	Portal Reclaimer, Ship loader	Urea
2	Mombasa Cement, Kenya	Side Scraper, Bridge Reclaimer	Limestone, Slag
3	Jimah Malaysia	Ship Unloader, Conveying system	Cole
4	Kalinga Port	Grab Unloader, Truck & Wagon loading system, Pedestrian cranes	Cole
5	Aluminum Refinery, Vedanta	BW Reclaimer, Slewing Stacker, Hopper, Conveying system	Bauxite
6	Delhi International Port Terminal	E - Rubber Tire Gantry Crane	Container

Roles & Responsibility at thyssenkrupp Industries India

- Creating Plant layout, Stockpile layout drawing.
- Equipment GA & sub assembly drawing preparation.
- Checking of manufacturing drawing of structural & machined components.
- Machine stability calculations as per ISO: 5049, FEM.
- Equipment wind load & Seismic load calculation.
- Machine foundation load / wheel load calculation.
- Preparation of Drive & Instrumentation list.
- Duty cycle calculation for Grab Unloader, RTGC.
- Travel, bucket wheel, luffing and slew drive power calculations.
- Selection of drive components like Gearbox, Coupling, Brake, Motor or Geared motor.
- Solving technical problem related to vendor.
- Selection of Slew Bearing, Planetary gearbox, clutch, brake & Motor & Extended shaft assembly with Pinion.
- Hydraulic drive power calculation for boom luffing system, BW drive & Slew drive.
- Mechanical Component Calculations – shafts, pins, beams, gears, keys, splines, couplings, springs, buffers, bolted & welded joints, bearing selection etc.
- Selection of bearing, bearing housing & seals for drive and tail shaft assemblies.
- Preparation of equipment & Plant operation philosophy.
- Equipment & Plant control logic preparation & testing with PLC.
- Development of 110 dome dia. Circular stacker reclaimer machine in thyssenkrupp Rohrbach, Germany for Reliance project.
- Development of 6000 tph Stacker cum Reclaimer machine in Zaragoza, Spain with Taim Waiser.
- **Project handled details**

Sr. No.	Project	Equipment handled	Material Handled
1	Samur project, Sabah Malaysia	Portal Reclaimer, Ship Loader	Urea
2	Tanjung-Bin Malaysia	Flow divider, Conveying system	Coal

Sr. No.	Project	Equipment handled	Material Handled
3	Mahi cement	Bridge Reclaimer, Bucket elevator	Limestone
4	CEPL	Travelling Tripper, Hopper	Coal
5	NALCO, Damanjodi	Semi-mobile crushing plant	Bauxite
6	NLC Neyveli	Shiftable conveyors	Lignite
7	Lapanga thermal power plant	Crusher & Screen, Conveying system	Cole
8	Jindal thermal power plant	Crusher & Screen, Conveying system	Cole
9	Reliance Jamnagar	Circular Stacker Reclaimer, Pedistrial crane	Pet coke
10	BPCL Kochi	Circular Stacker Reclaimer	Pet coke
11	Rayalaseema	DSS, DFDS, Wash down system	Coal

Hydraulics related experience

- Very good insight & knowhow of Industrial Hydraulic Systems- Open loop and Close loop including Integral control.
- Development of critical hydraulic circuits for Material handling equipment's which include both open & close loop hydraulic systems like Boom luffing system, Slew Drive, BW Drive, O-cabin leveling, Rail clamp, Conveyor drive, Hopper hydraulics, Rear conveyor gate.
- Hydraulic components selection e.g. Pumps, Various valves, Coolers, Filters, Electric motor, Hydro motor, Cylinders, Piping etc.
- Piping layout preparation.
- Material Selection & Sizing of Piping, connectors & hoses.
- Preparing raw material requirement for Piping, connectors & hoses.
- Preparation of Hydraulic system technical specification.
- Checking and approval of Bought out equipment drawings.
- Testing & inspection of hydraulic system at vendors place.
- Preparation of Hydraulic system flushing procedure.
- Checking performance parameters of hydraulic system at site.

Estimation & Proposal related experience

- Preparation of GA, Layout drawing, Equipment sizing & detailed weight schedule.
- Preparation of Technical data sheet, Drive list, Specification & Bought-out component selection.
- Discussion with Client for technical offer finalization.
- Costing of equipment.
- Completing pre-tender obligations like submitting pre-qualifications, study of contractual conditions, project cost analysis including considering cost impact of techno-commercial conditions.
- Assessing contractual terms for secured projects, cost impact on the project, advising execution.

Functional Competencies / Skills during Pre-tendering

- Market Intelligence
- Relationship Management
- Commercial laws & regulations in India & other markets
- Ability to sense and spot opportunities.
- Ability to work cross functional
- Technical selling skills, analytical skills and presentation skills.
- Customer centric
- Networking and interpersonal skills.

Site related activities

- Key member of Commissioning Team of equipments to carried out No load & load trials,
- Done Performance Guarantee (PG) test for Bulk Material Handling Packages.
- Vibration testing for Rotating equipment.
- Done health audit for equipment for rejuvenation work.
- Involved in commissioning & trouble shooting of hydraulic systems.
- Worked as a technical supervisor for erection & commissioning for Reliance Jamnagar & Rayalaseema project.
- Solved site related queries during erection & commissioning of equipment.

Educational details / Certifications

- **M Tech** – Admission taken for 2023 – 2025 course
PCCOE, Pune
- Post Graduate Program in Project & Contract Management (**PGPPM**)
2020-2022: NICMAR
- **Bachelor of Mechanical Engineering** – 69.5%
2004-2008: KIT College of Engineering- Shivaji University.
- HSC – 73.5%
2002-2004: Vivekand College, Kolhapur
- SCC – 83.5%
- 2001-2002: Private Highschool
- Basic & Advance **Industrial Hydraulics** course by M/s Eaton

Personal details

- Date of birth : 06th November 1986
- Marital status : Married
- Languages known : English, Hindi & Marathi
- Nationality : Indian
- Address : Pune, Maharashtra, India.

Declaration

I hereby declare that the above-mentioned information is correct to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Abhijit Latthe