

Rakesh Singh

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Seeking assignments in Design Engineering/Research & Development with leading organizations.

Professional Profile

- Technically accomplished professional with 8+ year's rich experience in Design / Production with well known Organisations.
- A Keen planner, strategist & implementer with competencies across
 - Design Engineering
 - Reverse Engineering
 - Project Execution
 - Team Management
 - New Product Development
- Associated with **Jaiprakash Associates Ltd. (Jaypee Cement)** as **Sr. Design Engineer**.
- An Out-of-the Box thinker with sound product knowledge and thorough understanding of Product dynamics.
- Demonstrated abilities in optimising product performance and efficiencies.
- Key role in implementing 3-D Software **Solid works/Uni-Graphics**.
- Superior record of successfully executing large scale & critical projects on time.
- Excellent planning, analytical and interpersonal skills.

Career Highlights

- Jaiprakash Associates Ltd. (Jaypee Group) Since Oct'09
Sr. Design Engineer

***Jaiprakash Associates Ltd. (JAYPEE GROUP)** is a diversified industrial conglomerate. From humble beginnings in the infrastructure sector 4 decades ago , the Group now deals in Cement (India's leading cement brand), Engineering & Construction, Infrastructure (Real Estate & Express Ways), Thermal & Hydro Power (Bina Thermal Power Plant, Nigri Thermal Power Plant, Karchana Thermal Power Plant, Bara Thermal Power Plant), IT, Manufacturing (Fabrication, Machining & Casting), Olive-Oil (Soya & Mustard), 5-Star Hotels, Sports Complex & Hospitality & Tourism with a turnover of over Rs.20,000 crore.*

Design Department-This is a Part of well equipped "Heavy Engineering Workshop" of Jaypee Cement Corporation Limited (Jaypee Group). We provide Designs & Detail Drawings for Bulk Material Handling Equipments as Linear Travelling Stackers, Slewing Stackers, Bridge Reclaimers, Portal Reclaimers, Circular Stackers & Reclaimers, Bucket Wheel Stackers/Reclaimers, Belt Conveyors, EOT/HOT Cranes, Grab Cranes, Gantry Cranes, Chutes & Hoppers, Steel Building Structures, Dome/Portal Arch Shades & other Structural as well as Mechanical equipments for Cement Plants, Thermal Power Plants, Coal Handling Plants & Construction purposes. HEW has also manufactured 3 sets of Pressure vessels and process equipments for Kanpur Fertilizer Plant, Kanpur (UP). Now HEW is going for manufacturing of Pressure Vessels, Process Equipments & Heat Exchangers in Large scale under **ASME "U" Stamp** Certification. HEW is "**ISO 9001:2008**" certified company and also got "**5 Star**" rating with "**Sword of Honour**" award by **British safety Council (BSC), UK**. HEW has been registered in the approved vendor list of **RDSO** for fabrication and supply of Riveted and Welded Steel Girders for Railway.

Key Responsibilities

Design Engineering:

- Cost Estimation & Preparing Technical offer for bulk material handling Package for Thermal Power plant, Steel & cement plant.
- Preparing & checking General arrangement drawings for Bulk Material handling Equipment, Such as Conveyors, Bucket Wheel Stacker-Cum-Reclaimer, Linear & Circular Stacker, Bridge & Portal Reclaimer, Bucket Elevator, Cranes, Crane shed, Apron Feeder, other Equipment drawings.
- Drawing Checking & relies for Manufacturing and Provide support for manufacturing.
- Plant & equipment layout design as per the customer tender document from conceptual to Detail engineering phase. & preparing Foundation plane.

- Design and calculation of Belt Tension, Power calculation, Stability Calculation, Luffing Mechanism, Boom conveyor Drive, Stacking & Reclaiming capacity, Bucket Wheel Drive, Bucket sizing, Long Travel Drive, Slew Drive, Bucket Elevator, Cranes, Crane shed etc.
- Equipment sizing & selection such as Belt Rating, Drive Motor, Gear Box, coupling, Brake, Idlers, Pulleys, CRD, Magnetic separators, Belt Weather, Belt Cleaners, Hydraulic cylinders, Dust suppression system etc.
- Review vendor drawing & Technical specification for selection & approval of all bought out item like Gear box, Motor, Coupling, Brake, Belt, Bearing, Plummer block & Hydraulic cylinder,
- Design & preparing 3D model, assembly models & Detail fabrication drawing using AutoCAD, Unigraphics, CATIA & SolidWorks.
- Responsible for managing detailing of all Steel Structural fabrications and manufacturing drawings of cement plants. Thermal Power Plants. Steel plant etc.
- Preparation of the appropriate STAAD model and Analysis based on Equipment load data and consideration of DL, LL, WL and stipulations as per Indian/International Codes.
- Economical Design of Steel Structure like, Conveyor Galleries, platforms, supporting Trestle, Tripper structure, Transfer tower, Portal Frame etc. for Material handling project and also Boiler supporting Structures for power plant as per WSM AND LSM
- Design of Equipment foundations for heavy and rotary machines such as Heat exchangers, Pressure Vessels. And design of Tower Crane, Crane Girder, Base plate, & rail anchor & foundation Bolt.

Project Coordination & Execution:

- Preparation and maintaining of various schedules like L1/L2 Schedule, (M.S. Project), Monthly Progress Report, MDL, Bar Chart, etc. & prepared Operation & Maintenance Manual
- Site support activities: Issuing Erection sequence & supervision of erection and commissioning and other necessary drawings/documents to site personnel
- Coordinating site management activities and prepared snag lists of each and every activity to ensure completion of project within the stipulated time.
- Product Quality control and necessary co-ordination & planning to fulfill internal/external customer's specification/requirement.

Projects Undertaken:

- **Prayagraj Super Thermal Power Project (3 x 660 MW) at Bara, Allahabad, U.P.**
Designing 2850THP Bucket Wheel Stacker-cum-Reclaimer, Yard Conveyor & other Coal Handling Equipment, Prepared Technical Bid for CHP
- **Jaypee Nigrie Super Thermal Power Project (2 x 660 MW) at Nigrie, Singrauli, M.P.**
Designed 1600 TPH Bucket Wheel Stacker-cum-Reclaimer, Yard Conveyor & other Coal Handling Equipment, Prepared Technical Bid for CHP
- **Jaypee Gujarat Cement Plant, Jaypee Balaji Cement Plant & other Cement Plants**
Designed Limestone & Coal Handling systems & Equipment including Linear Stacker, Bridge Reclaimer, Portal Reclaimer, Belt conveyor systems etc.

Bony Polymer Pvt LTD

Jan'09 – Oct'09

Design & development Engineer

Bony polymers (P) Ltd. is a reputed supplier to OEMs automotive and non automotive sectors in the field of Rubber parts, Rubber Metal Bonded Parts Hoses, Hose Assemblies, Fule Tubes and Non Asbestos Friction Materials a Long history of engineering Design and manufacturing Expertise

Key Responsibilities

Design & Development:

- Preparing of PPAP documents, coordinating with customers for the development plans and APQP, PSW
- Design & Preparing 3D model, assembly models & Detail manufacturing drawing with the help of cad tool like Unigraphics
- Develop new product design as per Client Requirement with latest designing software Unigraphics & Pro-E
- Preparing 3D components model from 2D drawing.
- Estimation & Costing As per the customer tender document.
- Receiving the customer drawing for quotation and finalizing the quotation
- Engineering Design changes And Modification of components for specific customer requirements.
- New Product with predefined technical specifications, detailing, and preparation of BOM, and testing the component to meet the predefined value.
- Coordinate with customer for process inspection & validation

Beliss India LTD

Apr'08 – Dec'08

Design Engineer

Belliss India Ltd. Is ,a US based company along with its India delivery Centre offers a broad range of engineering and manufacturing Services That Help our customers reduce product development life cycle time and cost. Belliss India is backed by Long history of engineering Design and manufacturing Expertise:

A track record for supplying over 15,000 steam Turbine Blades and other components in last 10 years

Supplying parts to Turbine OEM's(original equipment manufacturer) in India

Design & Development of turbine assembly for Leading Indian OEM

Design & Development of jigs ,tools, fixtures and gauges for the Automotive industries

Key Responsibilities

Design & Development:

- Basic structural design of steam turbine
- Preparing 3D components model, assembly models & drafting with the help of cad tool like Unigraphics & Pro-E.
- Preparing 3D components model from 2D drawing.
- Preparing Bill of Material.& part list and releasing manufacturing drawing
- Involved in product and process R&D, engineering design and analysis methods.
- Engineering Design changes And Modification of components for specific customer requirements.
- Develop new product design as per Client Requirement with latest designing software Unigraphics & Pro-E
- Tender calculation of steam consumption or out put with the help of mollier chart and Allen software
- Recommending suitable model of turbine according to the requirement of clients
- Designing various components of turbine as per as API standards.

Alaska ltd, New Delhi

Jul'07 – Aug'08

Design Engineer

Alaska Ltd. is an ISO-9002-2000 certified well reputed Manufacturing company and exporter of Auto components, Tractor, Agriculture Parts and rubber products in more than 35 countries

Key Responsibilities

Design & Development:

- Develop new product design as per customer Requirement with latest designing software
- Design modification of components for specific customer requirement.
- Pattern & Die designing
- Preparing 2D component drawing made with different CAD tools.
- Involved in product and process R&D, engineering design and analysis methods

Professional qualification

Post Diploma in CAD/CAM/CAE from Indo-Danish Tool Room, Jamshedpur

Educational Qualification

B.E. (Mechanical)

Rajiv Gandhi Technical University Bhopal (M.P.) with 65% aggregate in 2006

Industrial Exposure

- One month industrial training at Tones Hydel Electric Power Plant, Shirmour, Rewa(M.P)
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Computer Skills

Operating Systems : All Windows version.
Software Packages : MS word, MS excels and Power point.
Design Software : **Auto-Cad, Solid works, Uni-Graphics,Pro-e, Staad-Pro.**

Personal Vitae

Date of Birth : 20th July, 1980
Address : 51/10 Gayatri nagar Anantpur District: Rewa (M.P) 486001
Current Address : F-203, 3B, Lane no-3, Pandav Nagar, Mayur Vihar,ph-1,New Delhi-91
Languages Known : English & Hindi (Read, Write & Speak)

Place: New Delhi

(Rakesh Singh)

Date: